Attachment D
Laboratory Reports

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Friday, July 12, 2013

CH2M Hill, Inc. (CH025)

Attn: Janna Staszak

5701 Cleveland Street, Suite 200

Virginia Beach, VA 23462

RE: Laboratory Results for
Project Number: 439611.01.RI, Project Name/Desc: CTO-0020 Towers Road Disposal Areas, Hertford, NC
ENCO Workorder(s): A303499

Dear Janna Staszak,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, June 20, 2013.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Marcia Colon

Project Manager

Enclosure(s)

www.encolabs.com

PROJECT NARRATIVE

Client: CH2M Hill, Inc.
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Project Number: 439611.01.RI
ENCO Project ID: A303499
SDG: A303499-CTO0020

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

List of instruments used:

Analytical and Preparation Method	SOP Reference Instrument
EPA 8260B	OVGCMS2
EPA 8270D	OSVGCMS1
EPA 8270D PAH SIM	OSVGCMS2
EPA 8081B	OSVGCECD2
EPA 8082A	OSVGCECD2
EPA 7471B	OMHG1
EPA 6010C	JMICP2

Analysis: EPA8081B, EPA 8082A
Affected Sample(s): TR-2ND-SB07-GW-0613 [A303499-08], TR-2ND-SB06-GW-0613 [A303499-13], TR-2ND-SB04-GW0613 [A303499-16]
Additional Information: The pesticide and PCB analyses were cancelled for the above mentioned samples per client email.

Analysis: EPA 8260B
Sequence: AA22782
Affected Sample(s): AA22782-CAL1, AA22782-CAL2, AA22782-CAL3, AA22782-CAL4, AA22782-CAL5, AA22782-CAL6, AA22782-SCV1, AA22782-SCV2
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) AA22782-CAL1 due to ISTD reintegration: Pentafluorobenzene, 1,4- Dichlorobenzene-d4.
The following manual integrations were performed in the sample(s) AA22782-CAL1 due to poor integration (peak tailing, baseline selection): Isobutyl Alcohol, 2-Chloroethyl vinyl ether, Bromoform.
The following manual integrations were performed in the sample(s) AA22782-CAL1 due to incorrect peak selection/peak not found: c-1,3-Dichloropropene, t-1,4-dichloro-2-butene.
The following manual integrations were performed in the sample(s) AA22782-CAL2 due to ISTD reintegration: Pentafluorobenzene
The following manual integrations were performed in the sample(s) AA22782-CAL2 due to poor integration (peak tailing, baseline selection): 1,4-Dioxane, 2-Chloroethyl vinyl ether, Bromofluorobenzene, Naphthalene.
The following manual integrations were performed in the sample(s) AA22782-CAL3 due to poor integration (peak tailing, baseline selection): Iodomethane.
The following manual integrations were performed in the sample(s) AA22782-CAL3 due to ISTD reintegration: 1,4-Difluorobenzene.
The following manual integrations were performed in the sample(s) AA22782-CAL4 due to poor integration (peak tailing, baseline selection): Bromomethane, Chloroethane, Iodomethane, 1,2-Dichloroethane-d4, 2-Chloroethyl vinyl ether.

The following manual integrations were performed in the sample(s) AA22782-CAL5 due to poor integration (peak tailing, baseline selection): Bromomethane, Chloroethane, 2-Chloroethyl vinyl ether.

The following manual integrations were performed in the sample(s) AA22782-CAL6 due to poor integration (peak tailing, baseline selection): Isobutyl Alcohol, 1,4-Dioxane, 2-Chloroethyl vinyl ether.
The following manual integrations were performed in the sample(s) AA22782-SCV1 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene.
The following manual integrations were performed in the sample(s) AA22782-SCV2 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5.

Analysis: EPA 8260B
Sequence: AA24402
Affected Sample(s): AA24402-CAL1, AA24402-CAL2, AA24402-CAL3, AA24402-CAL4, AA24402-CAL5, AA24402-CAL6, AA24402-SCV2, AA24402-CCV1, AA24402-SCV1
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) AA24402-CAL1 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene, 1,4-Dichlorobenzene-d4.
The following manual integrations were performed in the sample(s) AA24402-CAL2 due to poor integration (peak tailing, baseline selection) and Baseline drop for split peaks: Dichlorodifluoromethane, Isobutyl Alcohol.
The following manual integrations were performed in the sample(s) AA24402-CAL2 due to deleted by accident: Trichlorofluoromethane.
The following manual integrations were performed in the sample(s) AA24402-CAL2 due to poor integration (peak tailing, baseline selection): Acetone, 2-Chloroethyl vinyl ether, Naphthalene.
The following manual integrations were performed in the sample(s) AA24402-CAL2 due to hump integration and ISTD reintegration: Chlorobenzene-d5.
The following manual integrations were performed in the sample(s) AA24402-CAL3 due to poor integration (peak tailing, baseline selection) and Baseline drop for split peaks: Dichlorodifluoromethane.
The following manual integrations were performed in the sample(s) AA24402-CAL3, AA24402-CAL6 due to poor integration (peak tailing, baseline selection): 2-Chloroethyl vinyl ether.
The following manual integrations were performed in the sample(s) AA24402-CAL4, AA24402-CAL5, AA24402-CAL6 due to ISTD reintegration: Pentafluorobenzene.
The following manual integrations were performed in the sample(s) AA24402-CAL4 due to poor integration (peak tailing, baseline selection): 2-Chloroethyl vinyl ether, Naphthalene.
The following manual integrations were performed in the sample(s) AA24402-CAL5 due to poor integration (peak tailing, baseline selection): 2-Chloroethyl vinyl ether, Bromoform.
The following manual integrations were performed in the sample(s) AA24402-CAL6 due to poor integration (peak tailing, baseline selection) and Baseline drop for split peaks: Isobutyl Alcohol.
The following manual integrations were performed in the sample(s) AA24402-SCV2, AA24402-CCV1, AA24402-SCV1 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene.

Analysis: EPA 8260B
Sequence: AA24527
Affected Sample(s): AA24527-CAL1, AA24527-CAL2, AA24527-CAL3, AA24527-CAL6, AA24527-SCV1, AA24527-SCV2
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) AA24527-CAL1, AA24527-CAL2 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4.
The following manual integrations were performed in the sample(s) AA24527-CAL3 due to poor integration (peak tailing, baseline selection): Naphthalene.
The following manual integrations were performed in the sample(s) AA24527-CAL6 due to baseline drop for split peaks: Chloroethane.
The following manual integrations were performed in the sample(s) AA24527-SCV1, AA24527-SCV2 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene.
The following manual integrations were performed in the sample(s) AA24527-SCV1 due to poor integration (peak tailing, baseline selection): Bromofluorobenzene.

Analysis: EPA 8260B
Sequence: AA24731
Affected Sample(s): AA24731-CCV1, 3F20024-BS1, 3F20024-BSD1, TR-2ND-SB06D-05-07-0613 [A303499-12]
Nonconformance: Manual integrations

Additional Information: The following manual integrations were performed in the sample(s) AA24731-CCV1 due to ISTD reintegration: Pentafluorobenzene, DBCP.

PROJECT NARRATIVE

The following manual integrations were performed in the sample(s) AA24731-CCV1, 3F20024-BS1, 3F20024-BSD1 due to poor integration (peak tailing, baseline selection): 2-Chloroethyl vinyl ether.
The following manual integrations were performed in the sample(s) 3F20024-BS1 due to ISTD reintegration: Pentafluorobenzene.
The following manual integrations were performed in the sample(s) 3F20024-BSD1 due to ISTD reintegration: Pentafluorobenzene, Chlorobenzene-d5.
The following manual integrations were performed in the sample(s) TR-2ND-SB06D-05-07-0613 [A303499-12] due to poor integration (peak tailing, baseline selection): Dichlorodifluoromethane.

Analysis: EPA 8260B
Sequence: AA24752
Affected Sample(s): AA24752-CCV1, 3F28011-BS1, 3F28011-BSD1
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) AA24752-CCV1, 3F28011-BS1 due to ISTD reintegration: Pentafluorobenzene, Chlorobenzene-d5.
The following manual integrations were performed in the sample(s) AA24752-CCV1 due to poor integration (peak tailing, baseline selection): Benzene.
The following manual integrations were performed in the sample(s) 3F28011-BSD1 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4.

Analysis: EPA 8260B
Sequence: AA24769
Affected Sample(s): AA24769-CCV1, 3F30006-BS1, 3F30006-BSD1
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) AA24769-CCV1 due to ISTD reintegration: Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, 1,4-Dichlorobenzene-d4.
The following manual integrations were performed in the sample(s) 3F30006-BS1 due to ISTD reintegration: 1,4-Difluorobenzene, Chlorobenzene-d5.
The following manual integrations were performed in the sample(s) 3F30006-BSD1 due to ISTD reintegration: 1,4-Difluorobenzene.

Analysis: EPA 8270D
Sequence: AA24784
Affected Sample(s): AA24784-CAL1, AA24784-CAL2
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) AA24784-CAL1, AA24784-CAL2 due to poor integration (peak tailing, baseline selection): 4-Nitroquinoline-1-oxide.

Analysis:EPA 8270D PAH SIM
Sequence:AA24805
Affected Samples: TR-5TH-SB05-0.5-01-0613 [A303479-03], TR-5TH-SB05-02-04-0613 [A303479-06]
Nonconformance:Manual Integrations
Additional Information: The following manual integrations were performed in the sample(s) TR-5TH-SB05-0.5-01-0613 [A303479-03], TR-5TH-SB05-02-04-0613 [A303479-06] due to poor integration (peak tailing, baseline selection): Benzo(b)fluoroanthene, Benzo(k)fluoranthene.

Analysis:EPA 8081B
Sequence:AA23829
Affected Samples: AA23829-CAL1, AA23829-CAL2
Nonconformance:Manual Integrations
Additional Information: The following manual integrations were performed in the sample(s) AA23829-CAL1, AA23829-CAL2 due to incorrect peak selection/peak not found: Mirex.

Analysis:EPA 8081B
Sequence:AA24704
Affected Samples: TR-2ND-SB06D-05-07-0613 [A303499-12]
Nonconformance:Manual Integrations
Additional Information: The following manual integrations were performed in the sample(s) TR-2ND-SB06D-05-07-0613 [A303499-12] due to ISTD reintegration: DBC.

Analysis:EPA 8081B
Sequence:AA24761
Affected Samples: TR-2ND-SB03-04-06-0613 [A303499-20RE1], TR-2ND-SB02-0.5-1-0613 [A303499-21RE1], TR-2ND-SB02-06-08-0613 [A303499-22RE1]
Nonconformance:Manual Integrations
Additional Information: The following manual integrations were performed in the sample(s) TR-2ND-SB03-04-06-0613 [A303499-20RE1], TR-2ND-SB02-0.5-1-0613 [A303499-21RE1], TR-2ND-SB02-06-08-0613 [A303499-22RE1] due to ISTD reintegration: DBC.
The following manual integrations were performed in the sample(s) TR-2ND-SB02-06-08-0613 [A303499-22RE1] due to poor integration (peak tailing, baseline selection): 2,4,5,6-TCMX.

Analysis:EPA 8082A
Sequence:AA24639
Affected Samples: AA24639-CAL1, AA24639-CAL2, AA24639-SCV1
Nonconformance:Manual Integrations
Additional Information: The following manual integrations were performed in the sample(s) AA24639-CAL1, AA24639-CAL2 due to poor integration (peak tailing, baseline selection): Decachlorobiphenyl.
The following manual integrations were performed in the sample(s) AA24639-SCV1 due to poor integration (peak tailing, baseline selection): 2,4,5,6-TCMX, PCB1016#3.

Analysis: EPA 8270D
Affected Samples: TR-2ND-SB07-0.5-01-0613 [A303499-06]
Nonconformance: The surrogate recovery was outside acceptance limits for Terphenyl-d14.

Analysis: EPA 8270D
Affected Samples: 3F21017-BS1, 3F21017-BSD1, TR-2ND-SB07-0.5-01-0613 [A303499-06], TR-2ND-SB07-04-06-0613 [A303499-07], TR-2ND-SB6-0.5-01-0613 [A303499-09]
Nonconformance: The associated laboratory control sample exhibited high bias for 1,2,4,5-Tetrachlorobenzene; since the result is ND, the impact on data quality is minimal.

Analysis: EPA 8270D
Affected Samples: TR-2ND-SB07-04-06-0613 [A303499-07], TR-2ND-SB07-04-06-0613 [A303499-07RE1]
Nonconformance: The surrogate recovery was outside acceptance limits for 2-Fluorobiphenyl. The sample was re-extracted for confirmation. The re-extraction was performed after acceptable holding time. The surrogate recovery was outside acceptance limits in the re-run, this is a confirmed matrix effect. The rerun data is reported qualified out of hold. Both sets of data are reported.

Analysis: EPA 8270D
Affected Samples: 3G08001-BS1, 3G08001-BSD1, TR-2ND-SB07-04-06-0613 [A303499-07RE1], TR-2ND-SB04-0.5-01-0613 [A303499-14RE1], TR-2ND-SB05-0.5-01-0613 [A303499-17RE1]
Nonconformance: The associated laboratory control sample exhibited high bias for 1,2,4,5-Tetrachlorobenzene; since the result is ND, the impact on data quality is minimal.

Analysis: EPA 8270D
Affected Samples: 3G08001-BSD1, TR-2ND-SB07-04-06-0613 [A303499-07RE1], TR-2ND-SB04-0.5-01-0613 [A303499-14RE1], TR-2ND-SB05-0.5-01-0613 [A303499-17RE1]
Nonconformance: The associated laboratory control sample exhibited high bias for Acetophenone and Benzaldehyde; since the result is ND, the impact on data quality is minimal.

Analysis: EPA 8270D
Affected Samples: AA24841-CCV1, TR-2ND-SB07-04-06-0613 [A303499-07RE1], TR-2ND-SB04-0.5-01-0613 [A303499-14RE1], TR-2ND-SB05-0.5-01-0613 [A303499-17RE1]
Nonconformance: The associated continuing calibration verification standard exhibited high bias for Bis(2-ethylhexyl)phthalate; since the result is ND, the impact on data quality is minimal.

Analysis: EPA 8270D
Affected Samples: 3F24010-BS1, TR-2ND-SB07-GW-0613 [A303499-08], TR-2ND-SB06-05-07-0613 [A303499-10], TR-2ND-SB06-GW-0613 [A303499-13], TR-2ND-SB04-GW-0613 [A303499-16], TR-2ND-SB06D-05-07-0613

[A303499-12], TR-2ND-SB04-04-06-0613 [A303499-15], TR-2ND-SB05-03-05-0613 [A303499-18], TR-2ND-SB03-0.5-01-0613 [A303499-19], TR-2ND-SB03-04-06-0613 [A303499-20], TR-2ND-SB02-0.5-1-0613 [A303499-21], TR-2ND-SB02-06-08-0613 [A303499-22], TR-2ND-SB06D-0.5-01-0613 [A303499-11], TR-2ND-SB04-0.5-01-0613 [A303499-14], TR-2ND-SB05-0.5-01-0613 [A303499-17]
Nonconformance: The associated laboratory control sample exhibited high bias for Atrazine; since the result is ND, the impact on data quality is minimal.

Analysis: EPA 8270D
Affected Samples: 3F24010-BS1, TR-2ND-SB07-GW-0613 [A303499-08]
Nonconformance: Surrogate recovery biased low and outside control limits for 2,4,6-Tribromophenol and 2-Fluorophenol due to suspected matrix effects, as evidenced by sample behavior during sample preparation (emulsion formation, excessive foaming).

Analysis: EPA 8270D
Affected Samples: TR-2ND-SB06-05-07-0613 [A303499-10], TR-2ND-SB06D-05-07-0613 [A303499-12]
Nonconformance: The surrogate recovery was outside acceptance limits for Phenol-d5.

Analysis: EPA 8270D
Affected Samples: TR-2ND-SB06D-0.5-01-0613 [A303499-11], TR-2ND-SB04-0.5-01-0613 [A303499-14], TR-2ND-SB05-0.5-01-0613 [A303499-17], TR-2ND-SB02-06-08-0613 [A303499-22]
Nonconformance: The sample was analyzed at a dilution due to suspected matrix interference.

Analysis: EPA 8270D
Affected Samples: TR-2ND-SB06D-0.5-01-0613 [A303499-11]
Nonconformance: The internal standard,Perylene-d12 failed low. This internal standard is not associated with any of the analytes reported in these samples; thus, impact on data quality is minimal.

Analysis: EPA 8270D
Affected Samples: TR-2ND-SB04-0.5-01-0613 [A303499-14], TR-2ND-SB04-0.5-01-0613 [A303499-14RE1]
Nonconformance: The internal standards,Chrysene-d12 and Perylene-d12 failed low. The internal standard, Perylene-d12, is not associated with any of the analytes reported in these samples; thus, impact on data quality is minimal. The sample was re-analyzed at a dilution for confirmation, the internal standards were within acceptable limits. Both sets of data are reported.

Analysis: EPA 8270D
Affected Samples: TR-2ND-SB05-0.5-01-0613 [A303499-17], TR-2ND-SB05-0.5-01-0613 [A303499-17RE1]
Nonconformance: The internal standard,Perylene-d12 failed low. This internal standard is not associated with any of the analytes reported in these samples; thus, impact on data quality is minimal. The sample was re-analyzed at a dilution for confirmation, the internal standard was within acceptable limits. Both sets of data are reported

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Analysis: EPA 8270D
Affected Samples: TR-2ND-SB02-0.5-1-0613 [A303499-21]
Nonconformance: The surrogate recoveries were outside acceptance limits for Phenol-d5 and Terphenyl-d14.

Analysis: EPA 8260B
Affected Samples: TR-TB01-061913 [A303499-01], TR-TB01-061913 [A303499-01RE1], TR-2ND-SB07-GW-0613 [A303499-08], TR-2ND-SB07-GW-0613 [A303499-08RE1]
Nonconformance: The surrogate recoveries were outside acceptance limits for Dibromofluoromethane and Toluene-d8. The sample was re-analyzed for confirmation, the surrogate recoveries were within acceptable limits. Both sets of data are reported.

Analysis: EPA 8260B
Affected Samples: TR-2ND-SB06-GW-0613 [A303499-13], TR-2ND-SB06-GW-0613 [A303499-13RE1], TR-2ND-SB04-GW-0613 [A303499-16], TR-2ND-SB04-GW-0613 [A303499-16RE1]
Nonconformance: The surrogate recoveries were outside acceptance limits for 4-Bromofluorobenzene, Dibromofluoromethane, and Toluene-d8. The sample was re-analyzed for confirmation, the surrogate recoveries were within acceptable limits. Both sets of data are reported.

PROJECT NARRATIVE

Analysis: EPA 8270D PAH SIM
Affected Samples: 3F21019-BS1, 3F21019-BSD1, TR-2ND-SB07-GW-0613 [A303499-08], TR-2ND-SB06-GW-0613 [A303499-13], TR-2ND-SB04-GW-0613 [A303499-16]
Nonconformance: The associated laboratory control sample exhibited high bias for Benzo(a)pyrene; since the result is ND, the impact on data quality is minimal.

Analysis: EPA 8081B
Affected Samples: TR-2ND-SB07-0.5-01-0613 [A303499-06], TR-2ND-SB07-0.5-01-0613 [A303499-06RE1], TR-2ND-SB07-04-06-0613 [A303499-07], TR-2ND-SB07-04-06-0613 [A303499-07RE1], TR-2ND-SB6-0.5-01-0613 [A303499-09], TR-2ND-SB6-0.5-01-0613 [A303499-09RE1], TR-2ND-SB04-04-06-0613 [A303499-15], TR-2ND-SB04-04-06-0613 [A303499-15RE1], TR-2ND-SB05-0.-05-0613 [A303499-18], TR-2ND-SB05-0.-05-0613 [A303499-18RE1], TR-2ND-SB03-0.5-01-0613 [A303499-19], TR-2ND-SB03-0.5-01-0613 [A303499-19RE1], TR-2ND-SB02-06-08-0613 [A303499-22], TR-2ND-SB02-06-08-0613 [A303499-22RE1]
Nonconformance: The surrogate recovery was outside acceptance limits for 2,4,5,6-TCMX and Decachlorobiphenyl, the sample was re-extracted for confirmation. The surrogate recovery was outside acceptance limits for 2,4,5,6-TCMX in the re-run, confirmed matrix effect. Both sets of data are reported.

Analysis: EPA 8081B
Affected Samples: TR-2ND-SB06-05-07-0613 [A303499-10], TR-2ND-SB06-05-07-0613 [A303499-10RE1], TR-2ND-SB05-0.5-01-0613 [A303499-17], TR-2ND-SB05-0.5-01-0613 [A303499-17RE1], TR-2ND-SB03-04-06-0613 [A303499-20], TR-2ND-SB03-04-06-0613 [A303499-20RE1], TR-2ND-SB02-0.5-1-0613 [A303499-21], TR-2ND-SB02-0.5-1-0613 [A303499-21RE1]
Nonconformance: The surrogate recovery was outside acceptance limits for 2,4,5,6-TCMX and Decachlorobiphenyl, the sample was re-extracted for confirmation. The surrogate recoveries were within acceptance limits in the re-run. Both sets of data are reported.

Analysis: EPA 8081B
Affected Samples: TR-2ND-SB06D-0.5-01-0613 [A303499-11], TR-2ND-SB04-0.5-01-0613 [A303499-14], TR-2ND-SB05-0.5-01-0613 [A303499-17], TR-2ND-SB02-06-08-0613 [A303499-22]
Nonconformance: The sample was analyzed at a dilution due to suspected matrix interference.

Analysis: EPA 8081B
Affected Samples: TR-2ND-SB04-0.5-01-0613 [A303499-14], TR-2ND-SB04-0.5-01-0613 [A303499-14RE1]
Nonconformance: The surrogate recovery was outside acceptance limits for 2,4,5,6-TCMX, the sample was re-extracted for confirmation. The surrogate recovery was within acceptance limits in the re-run. Both sets of data are reported.

Analysis: EPA 8081B
Affected Samples: TR-2ND-SB02-06-08-0613 [A303499-22RE1]
Nonconformance: Confirmation result exceeds 40% RPD for delta-BHC, lower result is reported.

Analysis:EPA 8081B
Affected Samples: TR-2ND-SB02-06-08-0613 [A303499-22RE1]
Nonconformance: This flag is used for pesticide and Aroclor target compounds when there is greater than 25% difference for detected concentrations between the two GC columns for delta-BHC. The lower of the two values is reported and flagged with a "P". The "P" flag is not used unless a compound is identified on both columns.

Analysis: EPA 8081B
Affected Samples: 3F24028-BLK1
Nonconformance: The surrogate recovery was outside acceptance limits for 2,4,5,6-TCMX and Decachlorobiphenyl.

Analysis: EPA 8082A
Affected Samples: TR-2ND-SB07-0.5-01-0613 [A303499-06]
Nonconformance: Confirmation result exceeds 40% RPD for PCB-1254, higher result is reported.

PROJECT NARRATIVE

Analysis:EPA 8082A
Affected Samples: TR-2ND-SB07-0.5-01-0613 [A303499-06]
Nonconformance: This flag is used for pesticide and Aroclor target compounds when there is greater than 25% difference for detected concentrations between the two GC columns for PCB-1254. The higher of the two values is reported and flagged with a "P". The "P" flag is not used unless a compound is identified on both columns.

Analysis: EPA 8082A
Affected Samples: TR-2ND-SB06D-0.5-01-0613 [A303499-11]
Nonconformance: Confirmation result exceeds 40% RPD for PCB-1260, lower result is reported.

Analysis: EPA 8082A
Affected Samples: TR-2ND-SB05-0.5-01-0613 [A303499-17], TR-2ND-SB05-0.5-01-0613 [A303499-17RE1], TR-2ND-SB02-06-08-0613 [A303499-22], TR-2ND-SB02-06-08-0613 [A303499-22RE1]
Nonconformance: The surrogate recovery was outside acceptance limits for Decachlorobiphenyl, the sample was re-extracted for confirmation. The surrogate recovery was within acceptance limits in the re-run. Both sets of data are reported.

Analysis: EPA 6010C
Affected Samples: A303499-02 (HPDTA-BG-SB04-0.5-01-0613)[B302882-01], A303499-03 (HPDTA-BG-SB04-03-05-0613)[B302882-02], A303499-04 (HPDTA-BG-SB03-0.5-01-0613)[B302882-03], A303499-05 (HPDTA-BG-SB03-04-06-0613)[B302882-04], A303499-06 (TR-2ND-SB07-0.5-01-0613)[B302882-05], A303499-07 (TR-2ND-SB07-04-06-0613)[B302882-06], A303499-09 (TR-2ND-SB06-0.5-01-0613)[B302882-07], A303499-10 (TR-2ND-SB06-05-07-0613)[B302882-08], A303499-11 (TR-2ND-SB06D-0.5-01-0613)[B302882-09], A303499-12 (TR-2ND-SB06D-05-07-0613)[B302882-10], A303499-14 (TR-2ND-SB04-0.5-01-0613)[B302882-11], A303499-15 (TR-2ND-SB04-04-06-0613)[B302882-12], A303499-17 (TR-2ND-SB05-0.5-01-0613)[B302882-13], A303499-18 (TR-2ND-SB05-03-05-0613)[B302882-14], A303499-19 (TR-2ND-SB03-0.5-01-0613)[B302882-15], A303499-20 (TR-2ND-SB03-04-06-0613)[B302882-16], A303499-21 (TR-2ND-SB02-0.5-1-0613)[B302882-17], A303499-22 (TR-2ND-SB02-0.6-08-0613)[B302882-18]
Nonconformance: The laboratory blank 3F24008-BLK1 had a concentration of cadmium, calcium, magnesium and potassium above the DL but below the PQL. The concentration of cadmium, calcium, magnesium and potassium found in the laboratory blank was less than half of the reporting limit which is acceptable by DOD QSM 4.2.

Analysis: EPA 6010C
Affected Samples: A303499-02 (HPDTA-BG-SB04-0.5-01-0613)[B302882-01], A303499-03 (HPDTA-BG-SB04-03-05-0613)[B302882-02], A303499-04 (HPDTA-BG-SB03-0.5-01-0613)[B302882-03], A303499-05 (HPDTA-BG-SB03-04-06-0613)[B302882-04], A303499-06 (TR-2ND-SB07-0.5-01-0613)[B302882-05], A303499-07 (TR-2ND-SB07-04-06-0613)[B302882-06], A303499-09 (TR-2ND-SB06-0.5-01-0613)[B302882-07], A303499-10 (TR-2ND-SB06-05-07-0613)[B302882-08], A303499-11 (TR-2ND-SB06D-0.5-01-0613)[B302882-09], A303499-12 (TR-2ND-SB06D-05-07-0613)[B302882-10], A303499-14 (TR-2ND-SB04-0.5-01-0613)[B302882-11], A303499-15 (TR-2ND-SB04-04-06-0613)[B302882-12], A303499-17 (TR-2ND-SB05-0.5-01-0613)[B302882-13], A303499-18 (TR-2ND-SB05-03-05-0613)[B302882-14], A303499-19 (TR-2ND-SB03-0.5-01-0613)[B302882-15], A303499-20 (TR-2ND-SB03-04-06-0613)[B302882-16], A303499-21 (TR-2ND-SB02-0.5-1-0613)[B302882-17], A303499-22 (TR-2ND-SB02-0.6-08-0613)[B302882-18]
Nonconformance: Aluminum, barium, calcium, copper, iron, lead, magnesium, manganese and zinc were detected above the calibration range for the above samples. High calibration verification standards were analyzed and passed all acceptance criteria.

Analysis: EPA 6010C
Affected Samples: A303499-17 (TR-2ND-SB05-0.5-01-0613)[B302882-13]
Nonconformance: Sample was diluted due to high levels of Aluminum, Barium, Calcium, Copper, Iron, Magnesium, Manganese, Lead, and Zinc.

PROJECT NARRATIVE

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Marcia Colon

July 26, 2013

Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: TR-TB01-061913 Lab ID: A303499-01 Sampled: 06/19/13 08:00 Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		06/28/13	12:07	6/28/2013 22:14

Client ID: TR-TB01-061913 Lab ID: A303499-01RE1 Sampled: 06/19/13 08:00 Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		07/01/13	12:07	7/1/2013 17:19

Client ID: HPDTA-BG-SB04-0.5-01-0613 Lab ID: A303499-02 Sampled: 06/19/13 08:00 Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:40
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 07:59

Client ID: HPDTA-BG-SB04-03-05-0613 Lab ID: A303499-03 Sampled: 06/19/13 08:10 Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:42
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:02

Client ID: HPDTA-BG-SB03-0.5-01-0613 Lab ID: A303499-04 Sampled: 06/19/13 09:15 Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:44
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:06

Client ID: HPDTA-BG-SB03-04-06-0613 Lab ID: A303499-05 Sampled: 06/19/13 09:25 Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:50
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:12

Client ID: TR-2ND-SB07-0.5-01-0613 Lab ID: A303499-06 Sampled: 06/19/13 10:20 Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:52
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:15
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 17:56
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 14:42
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 16:47
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/6/2013 20:57
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 14:26

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Client ID:	TR-2ND-SB07-0.5-01-0613	Lab ID: A303499-06RE1	Sampled: 06/19/13 10:20	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 13:00

Client ID:	TR-2ND-SB07-04-06-0613	Lab ID: A303499-07	Sampled: 06/19/13 10:40	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:54
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:19
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 18:08
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 14:54
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 17:23
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/6/2013 21:25
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 14:48

Client ID:	TR-2ND-SB07-04-06-0613	Lab ID: A303499-07RE1	Sampled: 06/19/13 10:40	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 13:12
EPA 8270D	07/03/13	08/17/13	07/08/13	01:00	7/8/2013 12:42

Client ID:	TR-2ND-SB07-GW-0613	Lab ID: A303499-08	Sampled: 06/19/13 10:45	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		06/28/13	12:07	6/28/2013 22:46
EPA 8270D	06/26/13	07/31/13	06/21/13	11:20	7/5/2013 14:07
EPA 8270D	06/26/13	08/03/13	06/24/13	11:05	7/7/2013 10:29

Client ID:	TR-2ND-SB07-GW-0613	Lab ID: A303499-08RE1	Sampled: 06/19/13 10:45	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		07/01/13	12:07	7/1/2013 17:49

Client ID:	TR-2ND-SB06-0.5-01-0613	Lab ID: A303499-09	Sampled: 06/19/13 11:20	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:56
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:32
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 18:20
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 15:06
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 17:58
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/6/2013 21:54
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 15:10

Client ID:	TR-2ND-SB06-0.5-01-0613	Lab ID: A303499-09RE1	Sampled: 06/19/13 11:20	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 13:24

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Client ID:	TR-2ND-SB06-05-07-0613	Lab ID: A303499-10	Sampled: 06/19/13 11:30	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:58
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:36
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 18:32
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 15:18
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 18:33
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 10:58
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 15:31

Client ID:	TR-2ND-SB06-05-07-0613	Lab ID: A303499-10RE1	Sampled: 06/19/13 11:30	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 13:36

Client ID:	TR-2ND-SB06D-0.5-01-0613	Lab ID: A303499-11	Sampled: 06/19/13 11:25	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 10:59
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:39
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 18:44
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 15:30
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 19:08
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 18:02
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 15:53

Client ID:	TR-2ND-SB06D-05-07-0613	Lab ID: A303499-12	Sampled: 06/19/13 11:35	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:01
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:42
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 18:56
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 16:06
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 19:42
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 14:44
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 16:15

Client ID:	TR-2ND-SB06-GW-0613	Lab ID: A303499-13	Sampled: 06/19/13 12:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		06/28/13	12:07	6/28/2013 23:18
EPA 8270D	06/26/13	07/31/13	06/21/13	11:20	7/5/2013 14:29
EPA 8270D	06/26/13	08/03/13	06/24/13	11:05	7/7/2013 11:26

Client ID:	TR-2ND-SB06-GW-0613	Lab ID: A303499-13RE1	Sampled: 06/19/13 12:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		07/01/13	12:07	7/1/2013 18:19

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Client ID: TR-2ND-SB04-0.5-01-0613	Lab ID: A303499-14	Sampled: 06/19/13 12:50	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:02
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:46
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 19:08
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 16:19
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 20:17
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 18:31
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 16:37

Client ID: TR-2ND-SB04-0.5-01-0613	Lab ID: A303499-14RE1	Sampled: 06/19/13 12:50	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 13:49
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/8/2013 13:10

Client ID: TR-2ND-SB04-04-06-0613	Lab ID: A303499-15	Sampled: 06/19/13 13:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:03
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:52
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 19:20
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 16:31
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 20:53
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 15:13
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 16:58

Client ID: TR-2ND-SB04-04-06-0613	Lab ID: A303499-15RE1	Sampled: 06/19/13 13:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 14:01

Client ID: TR-2ND-SB04-GW-0613	Lab ID: A303499-16	Sampled: 06/19/13 13:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		06/28/13	12:07	6/28/2013 23:50
EPA 8270D	06/26/13	07/31/13	06/21/13	11:20	7/5/2013 14:50
EPA 8270D	06/26/13	08/03/13	06/24/13	11:05	7/7/2013 11:54

Client ID: TR-2ND-SB04-GW-0613	Lab ID: A303499-16RE1	Sampled: 06/19/13 13:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/03/13		07/01/13	12:07	7/1/2013 18:49

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Client ID: TR-2ND-SB05-0.5-01-0613	Lab ID: A303499-17	Sampled: 06/19/13 13:30	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:05
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:56
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 19:32
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 16:43
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 21:28
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 18:58
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 17:20

Client ID: TR-2ND-SB05-0.5-01-0613	Lab ID: A303499-17RE1	Sampled: 06/19/13 13:30	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:03
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 14:13
EPA 8082A	06/19/14	06/19/14	06/28/13	12:25	7/1/2013 09:44
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/8/2013 13:39

Client ID: TR-2ND-SB05-03-05-0613	Lab ID: A303499-18	Sampled: 06/19/13 13:40	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:11
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 08:59
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 19:45
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 16:55
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 22:02
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 15:41
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 17:42

Client ID: TR-2ND-SB05-03-05-0613	Lab ID: A303499-18RE1	Sampled: 06/19/13 13:40	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:26
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 14:25

Client ID: TR-2ND-SB05-03-05-0613	Lab ID: A303499-18RE2	Sampled: 06/19/13 13:40	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:36

Client ID: TR-2ND-SB03-0.5-01-0613	Lab ID: A303499-19	Sampled: 06/19/13 14:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:12
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:13
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 19:57
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 17:07
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 22:37
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 16:09
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 18:03

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Client ID:	TR-2ND-SB03-0.5-01-0613	Lab ID: A303499-19RE1	Sampled: 06/19/13 14:00	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:30
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 14:37

Client ID:	TR-2ND-SB03-04-06-0613	Lab ID: A303499-20	Sampled: 06/19/13 14:10	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:13
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:16
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 20:09
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 17:19
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 23:11
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 16:37
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 18:25

Client ID:	TR-2ND-SB03-04-06-0613	Lab ID: A303499-20RE1	Sampled: 06/19/13 14:10	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 14:49

Client ID:	TR-2ND-SB02-0.5-1-0613	Lab ID: A303499-21	Sampled: 06/19/13 14:15	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:14
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:19
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 20:21
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 17:31
EPA 8260B	07/03/13		06/27/13	12:23	6/27/2013 23:44
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 17:06
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 18:47

Client ID:	TR-2ND-SB02-0.5-1-0613	Lab ID: A303499-21RE1	Sampled: 06/19/13 14:15	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 15:01

Client ID:	TR-2ND-SB02-06-08-0613	Lab ID: A303499-22	Sampled: 06/19/13 14:30	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	12/16/13		06/24/13	09:43	6/27/2013 11:15
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:23
EPA 8081B	07/03/13	08/03/13	06/24/13	13:45	6/26/2013 20:33
EPA 8082A	06/19/14	06/19/14	06/24/13	13:45	6/27/2013 17:43
EPA 8260B	07/03/13		06/27/13	12:23	6/28/2013 00:17
EPA 8270D	07/03/13	07/31/13	06/21/13	11:30	7/7/2013 17:34
EPA 8270D	07/03/13	08/03/13	06/24/13	09:00	7/3/2013 19:09

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Client ID: TR-2ND-SB02-06-08-0613	Lab ID: A303499-22RE1	Sampled: 06/19/13 14:30	Received: 06/20/13 09:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7471B	07/17/13		06/20/13	15:59	6/21/2013 09:33
EPA 8081B	07/03/13	08/07/13	06/28/13	01:30	6/29/2013 15:13
EPA 8082A	06/19/14	06/19/14	06/28/13	12:25	7/1/2013 09:57

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ANALYTICAL RESULTS

Description: TR-TB01-061913
Matrix: Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-01
Sampled: 06/19/13 08:00
Sampled By: ENCO ORL

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,2,3-Trichlorobenzene [87-61-6] ^	**24**	Q	ug/L	1	0.86	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/L	1	0.86	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,2,4-Trichlorobenzene [120-82-1] ^	**65**	Q	ug/L	1	0.70	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/L	1	0.70	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	06/28/13 22:14	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	07/01/13 17:19	kwb	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,2-Dichlorobenzene [95-50-1] ^	**5.6**	Q	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,3-Dichlorobenzene [541-73-1] ^	**1.0**	JQ	ug/L	1	0.77	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/L	1	0.77	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,4-Dichlorobenzene [106-46-7] ^	**6.5**	Q	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	06/28/13 22:14	kat	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	07/01/13 17:19	kwb	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	06/28/13 22:14	kat	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	07/01/13 17:19	kwb	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	06/28/13 22:14	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	07/01/13 17:19	kwb	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	06/28/13 22:14	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	07/01/13 17:19	kwb	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	06/28/13 22:14	kat	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	07/01/13 17:19	kwb	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	

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Description: TR-TB01-061913
Matrix: Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-01
Sampled: 06/19/13 08:00
Sampled By: ENCO ORL

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	06/28/13 22:14	kat	
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	07/01/13 17:19	kwb	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 22:14	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 17:19	kwb	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	06/28/13 22:14	kat	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	07/01/13 17:19	kwb	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	

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Description: TR-TB01-061913
Matrix: Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-01
Sampled: 06/19/13 08:00
Sampled By: ENCO ORL

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 22:14	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 17:19	kwb	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 22:14	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 17:19	kwb	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*75-120*	*3F28011*	*EPA 8260B*	*06/28/13 22:14*	*kat*	
4-Bromofluorobenzene	*52*	*1*	*50.0*	*103 %*	*75-120*	*3F30006*	*EPA 8260B*	*07/01/13 17:19*	*kwb*	
Dibromofluoromethane	*33*	*1*	*50.0*	*66 %*	*85-115*	*3F28011*	*EPA 8260B*	*06/28/13 22:14*	*kat*	*QS-03*
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*85-115*	*3F30006*	*EPA 8260B*	*07/01/13 17:19*	*kwb*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*85-120*	*3F28011*	*EPA 8260B*	*06/28/13 22:14*	*kat*	*QS-03*
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*85-120*	*3F30006*	*EPA 8260B*	*07/01/13 17:19*	*kwb*	

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Description:	HPDTA-BG-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-02	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 08:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0366**		mg/kg dry	1	0.00484	0.00708	0.0124	EPA 7471B	06/21/13 07:59	IR	

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Description:	HPDTA-BG-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-02	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 08:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**32000**		mg/kg dry	1	4.14	17.2	34.5	EPA 6010C	06/27/13 10:40	ACV	
Antimony [7440-36-0] ^	<1.72	U	mg/kg dry	1	0.845	1.72	3.45	EPA 6010C	06/27/13 10:40	ACV	
Arsenic [7440-38-2] ^	**2.60**	J	mg/kg dry	1	0.483	1.72	3.45	EPA 6010C	06/27/13 10:40	ACV	
Barium [7440-39-3] ^	**134**		mg/kg dry	1	0.0379	0.431	0.862	EPA 6010C	06/27/13 10:40	ACV	
Beryllium [7440-41-7] ^	**0.593**		mg/kg dry	1	0.0105	0.0431	0.0862	EPA 6010C	06/27/13 10:40	ACV	
Cadmium [7440-43-9] ^	<0.0862	U	mg/kg dry	1	0.0310	0.0862	0.172	EPA 6010C	06/27/13 10:40	ACV	
Calcium [7440-70-2] ^	**1630**		mg/kg dry	1	2.24	21.6	43.1	EPA 6010C	06/27/13 10:40	ACV	
Chromium [7440-47-3] ^	**38.5**		mg/kg dry	1	0.0621	0.431	0.862	EPA 6010C	06/27/13 10:40	ACV	
Cobalt [7440-48-4] ^	**4.64**		mg/kg dry	1	0.0604	0.431	0.862	EPA 6010C	06/27/13 10:40	ACV	
Copper [7440-50-8] ^	**8.08**		mg/kg dry	1	0.136	0.431	0.862	EPA 6010C	06/27/13 10:40	ACV	
Iron [7439-89-6] ^	**14100**		mg/kg dry	1	2.93	4.31	8.62	EPA 6010C	06/27/13 10:40	ACV	
Lead [7439-92-1] ^	**12.2**		mg/kg dry	1	0.190	1.72	3.45	EPA 6010C	06/27/13 10:40	ACV	
Magnesium [7439-95-4] ^	**2600**		mg/kg dry	1	1.47	21.6	43.1	EPA 6010C	06/27/13 10:40	ACV	
Manganese [7439-96-5] ^	**114**		mg/kg dry	1	0.0190	0.862	1.72	EPA 6010C	06/27/13 10:40	ACV	
Nickel [7440-02-0] ^	**16.8**		mg/kg dry	1	0.0586	0.431	0.862	EPA 6010C	06/27/13 10:40	ACV	
Potassium [7440-09-7] ^	**765**		mg/kg dry	1	8.45	43.1	86.2	EPA 6010C	06/27/13 10:40	ACV	
Selenium [7782-49-2] ^	<1.72	U	mg/kg dry	1	0.552	1.72	3.45	EPA 6010C	06/27/13 10:40	ACV	
Silver [7440-22-4] ^	<0.431	U	mg/kg dry	1	0.159	0.431	0.862	EPA 6010C	06/27/13 10:40	ACV	
Sodium [7440-23-5] ^	**75.0**		mg/kg dry	1	5.17	21.6	43.1	EPA 6010C	06/27/13 10:40	ACV	
Thallium [7440-28-0] ^	**1.29**	J	mg/kg dry	1	0.397	1.72	3.45	EPA 6010C	06/27/13 10:40	ACV	
Vanadium [7440-62-2] ^	**31.9**		mg/kg dry	1	0.0673	0.862	1.72	EPA 6010C	06/27/13 10:40	ACV	
Zinc [7440-66-6] ^	**27.1**		mg/kg dry	1	0.362	0.862	1.72	EPA 6010C	06/27/13 10:40	ACV	

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Description:	HPDTA-BG-SB04-03-05-0613	**Lab Sample ID:**	A303499-03	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 08:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.00571**	J	mg/kg dry	1	0.00436	0.00638	0.0112	EPA 7471B	06/21/13 08:02	IR	

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Description:	HPDTA-BG-SB04-03-05-0613	**Lab Sample ID:**	A303499-03	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 08:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**14800**		mg/kg dry	1	3.85	16.1	32.1	EPA 6010C	06/27/13 10:42	ACV	
Antimony [7440-36-0] ^	<1.61	U	mg/kg dry	1	0.787	1.61	3.21	EPA 6010C	06/27/13 10:42	ACV	
Arsenic [7440-38-2] ^	**3.09**	J	mg/kg dry	1	0.450	1.61	3.21	EPA 6010C	06/27/13 10:42	ACV	
Barium [7440-39-3] ^	**45.2**		mg/kg dry	1	0.0353	0.401	0.803	EPA 6010C	06/27/13 10:42	ACV	
Beryllium [7440-41-7] ^	**0.338**		mg/kg dry	1	0.00979	0.0401	0.0803	EPA 6010C	06/27/13 10:42	ACV	
Cadmium [7440-43-9] ^	<0.0803	U	mg/kg dry	1	0.0289	0.0803	0.161	EPA 6010C	06/27/13 10:42	ACV	
Calcium [7440-70-2] ^	**576**		mg/kg dry	1	2.09	20.1	40.1	EPA 6010C	06/27/13 10:42	ACV	
Chromium [7440-47-3] ^	**20.9**		mg/kg dry	1	0.0578	0.401	0.803	EPA 6010C	06/27/13 10:42	ACV	
Cobalt [7440-48-4] ^	**3.14**		mg/kg dry	1	0.0562	0.401	0.803	EPA 6010C	06/27/13 10:42	ACV	
Copper [7440-50-8] ^	**6.68**		mg/kg dry	1	0.127	0.401	0.803	EPA 6010C	06/27/13 10:42	ACV	
Iron [7439-89-6] ^	**8210**		mg/kg dry	1	2.73	4.01	8.03	EPA 6010C	06/27/13 10:42	ACV	
Lead [7439-92-1] ^	**4.67**		mg/kg dry	1	0.177	1.61	3.21	EPA 6010C	06/27/13 10:42	ACV	
Magnesium [7439-95-4] ^	**2370**		mg/kg dry	1	1.37	20.1	40.1	EPA 6010C	06/27/13 10:42	ACV	
Manganese [7439-96-5] ^	**66.2**		mg/kg dry	1	0.0177	0.803	1.61	EPA 6010C	06/27/13 10:42	ACV	
Nickel [7440-02-0] ^	**10.4**		mg/kg dry	1	0.0546	0.401	0.803	EPA 6010C	06/27/13 10:42	ACV	
Potassium [7440-09-7] ^	**725**		mg/kg dry	1	7.87	40.1	80.3	EPA 6010C	06/27/13 10:42	ACV	
Selenium [7782-49-2] ^	<1.61	U	mg/kg dry	1	0.514	1.61	3.21	EPA 6010C	06/27/13 10:42	ACV	
Silver [7440-22-4] ^	<0.401	U	mg/kg dry	1	0.148	0.401	0.803	EPA 6010C	06/27/13 10:42	ACV	
Sodium [7440-23-5] ^	**76.8**		mg/kg dry	1	4.82	20.1	40.1	EPA 6010C	06/27/13 10:42	ACV	
Thallium [7440-28-0] ^	**0.489**	J	mg/kg dry	1	0.369	1.61	3.21	EPA 6010C	06/27/13 10:42	ACV	
Vanadium [7440-62-2] ^	**21.4**		mg/kg dry	1	0.0626	0.803	1.61	EPA 6010C	06/27/13 10:42	ACV	
Zinc [7440-66-6] ^	**19.6**		mg/kg dry	1	0.337	0.803	1.61	EPA 6010C	06/27/13 10:42	ACV	

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Description:	HPDTA-BG-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-04	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 09:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	88.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0281**		mg/kg dry	1	0.00439	0.00642	0.0113	EPA 7471B	06/21/13 08:06	IR	

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Description:	HPDTA-BG-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-04	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 09:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	88.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**8420**		mg/kg dry	1	3.47	14.4	28.9	EPA 6010C	06/27/13 10:44	ACV	
Antimony [7440-36-0] ^	<1.44	U	mg/kg dry	1	0.707	1.44	2.89	EPA 6010C	06/27/13 10:44	ACV	
Arsenic [7440-38-2] ^	**2.05**	J	mg/kg dry	1	0.404	1.44	2.89	EPA 6010C	06/27/13 10:44	ACV	
Barium [7440-39-3] ^	**41.7**		mg/kg dry	1	0.0318	0.361	0.722	EPA 6010C	06/27/13 10:44	ACV	
Beryllium [7440-41-7] ^	**0.275**		mg/kg dry	1	0.00881	0.0361	0.0722	EPA 6010C	06/27/13 10:44	ACV	
Cadmium [7440-43-9] ^	<0.0722	U	mg/kg dry	1	0.0260	0.0722	0.144	EPA 6010C	06/27/13 10:44	ACV	
Calcium [7440-70-2] ^	**722**		mg/kg dry	1	1.88	18.0	36.1	EPA 6010C	06/27/13 10:44	ACV	
Chromium [7440-47-3] ^	**12.6**		mg/kg dry	1	0.0520	0.361	0.722	EPA 6010C	06/27/13 10:44	ACV	
Cobalt [7440-48-4] ^	**2.00**		mg/kg dry	1	0.0505	0.361	0.722	EPA 6010C	06/27/13 10:44	ACV	
Copper [7440-50-8] ^	**3.55**		mg/kg dry	1	0.114	0.361	0.722	EPA 6010C	06/27/13 10:44	ACV	
Iron [7439-89-6] ^	**6240**		mg/kg dry	1	2.45	3.61	7.22	EPA 6010C	06/27/13 10:44	ACV	
Lead [7439-92-1] ^	**7.97**		mg/kg dry	1	0.159	1.44	2.89	EPA 6010C	06/27/13 10:44	ACV	
Magnesium [7439-95-4] ^	**861**		mg/kg dry	1	1.23	18.0	36.1	EPA 6010C	06/27/13 10:44	ACV	
Manganese [7439-96-5] ^	**131**		mg/kg dry	1	0.0159	0.722	1.44	EPA 6010C	06/27/13 10:44	ACV	
Nickel [7440-02-0] ^	**4.94**		mg/kg dry	1	0.0491	0.361	0.722	EPA 6010C	06/27/13 10:44	ACV	
Potassium [7440-09-7] ^	**219**		mg/kg dry	1	7.07	36.1	72.2	EPA 6010C	06/27/13 10:44	ACV	
Selenium [7782-49-2] ^	<1.44	U	mg/kg dry	1	0.462	1.44	2.89	EPA 6010C	06/27/13 10:44	ACV	
Silver [7440-22-4] ^	<0.361	U	mg/kg dry	1	0.133	0.361	0.722	EPA 6010C	06/27/13 10:44	ACV	
Sodium [7440-23-5] ^	**63.2**		mg/kg dry	1	4.33	18.0	36.1	EPA 6010C	06/27/13 10:44	ACV	
Thallium [7440-28-0] ^	<1.44	U	mg/kg dry	1	0.332	1.44	2.89	EPA 6010C	06/27/13 10:44	ACV	
Vanadium [7440-62-2] ^	**13.6**		mg/kg dry	1	0.0563	0.722	1.44	EPA 6010C	06/27/13 10:44	ACV	
Zinc [7440-66-6] ^	**12.4**		mg/kg dry	1	0.303	0.722	1.44	EPA 6010C	06/27/13 10:44	ACV	

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Description:	HPDTA-BG-SB03-04-06-0613	**Lab Sample ID:**	A303499-05	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 09:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	<0.00623	U	mg/kg dry	1	0.00426	0.00623	0.0109	EPA 7471B	06/21/13 08:12	IR	

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Description:	HPDTA-BG-SB03-04-06-0613	**Lab Sample ID:**	A303499-05	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 09:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**19400**		mg/kg dry	1	4.25	17.7	35.4	EPA 6010C	06/27/13 10:50	ACV	
Antimony [7440-36-0] ^	<1.77	U	mg/kg dry	1	0.867	1.77	3.54	EPA 6010C	06/27/13 10:50	ACV	
Arsenic [7440-38-2] ^	**2.65**	J	mg/kg dry	1	0.495	1.77	3.54	EPA 6010C	06/27/13 10:50	ACV	
Barium [7440-39-3] ^	**53.5**		mg/kg dry	1	0.0389	0.442	0.884	EPA 6010C	06/27/13 10:50	ACV	
Beryllium [7440-41-7] ^	**0.440**		mg/kg dry	1	0.0108	0.0442	0.0884	EPA 6010C	06/27/13 10:50	ACV	
Cadmium [7440-43-9] ^	<0.0884	U	mg/kg dry	1	0.0318	0.0884	0.177	EPA 6010C	06/27/13 10:50	ACV	
Calcium [7440-70-2] ^	**535**		mg/kg dry	1	2.30	22.1	44.2	EPA 6010C	06/27/13 10:50	ACV	
Chromium [7440-47-3] ^	**23.7**		mg/kg dry	1	0.0637	0.442	0.884	EPA 6010C	06/27/13 10:50	ACV	
Cobalt [7440-48-4] ^	**3.36**		mg/kg dry	1	0.0619	0.442	0.884	EPA 6010C	06/27/13 10:50	ACV	
Copper [7440-50-8] ^	**5.49**		mg/kg dry	1	0.140	0.442	0.884	EPA 6010C	06/27/13 10:50	ACV	
Iron [7439-89-6] ^	**9350**		mg/kg dry	1	3.01	4.42	8.84	EPA 6010C	06/27/13 10:50	ACV	
Lead [7439-92-1] ^	**6.58**		mg/kg dry	1	0.195	1.77	3.54	EPA 6010C	06/27/13 10:50	ACV	
Magnesium [7439-95-4] ^	**2090**		mg/kg dry	1	1.51	22.1	44.2	EPA 6010C	06/27/13 10:50	ACV	
Manganese [7439-96-5] ^	**70.9**		mg/kg dry	1	0.0195	0.884	1.77	EPA 6010C	06/27/13 10:50	ACV	
Nickel [7440-02-0] ^	**10.4**		mg/kg dry	1	0.0601	0.442	0.884	EPA 6010C	06/27/13 10:50	ACV	
Potassium [7440-09-7] ^	**614**		mg/kg dry	1	8.67	44.2	88.4	EPA 6010C	06/27/13 10:50	ACV	
Selenium [7782-49-2] ^	<1.77	U	mg/kg dry	1	0.566	1.77	3.54	EPA 6010C	06/27/13 10:50	ACV	
Silver [7440-22-4] ^	<0.442	U	mg/kg dry	1	0.163	0.442	0.884	EPA 6010C	06/27/13 10:50	ACV	
Sodium [7440-23-5] ^	**136**		mg/kg dry	1	5.31	22.1	44.2	EPA 6010C	06/27/13 10:50	ACV	
Thallium [7440-28-0] ^	**0.519**	J	mg/kg dry	1	0.407	1.77	3.54	EPA 6010C	06/27/13 10:50	ACV	
Vanadium [7440-62-2] ^	**23.5**		mg/kg dry	1	0.0690	0.884	1.77	EPA 6010C	06/27/13 10:50	ACV	
Zinc [7440-66-6] ^	**21.4**		mg/kg dry	1	0.371	0.884	1.77	EPA 6010C	06/27/13 10:50	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB07-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-06
Sampled: 06/19/13 10:20
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 84.5

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,1,2-Trichloroethane [79-00-5] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,1-Dichloroethane [75-34-3] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,1-Dichloroethene [75-35-4] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<0.9	U	ug/kg dry	1	0.8	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<0.9	U	ug/kg dry	1	0.7	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,2-Dibromoethane [106-93-4] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,2-Dichlorobenzene [95-50-1] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,2-Dichloroethane [107-06-2] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,2-Dichloropropane [78-87-5] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,3-Dichlorobenzene [541-73-1] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,4-Dichlorobenzene [106-46-7] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
1,4-Dioxane [123-91-1] ^	<44	U	ug/kg dry	1	4.8	44	87	EPA 8260B	06/27/13 16:47	kat	
2-Butanone [78-93-3] ^	<2.2	U	ug/kg dry	1	1.6	2.2	4.4	EPA 8260B	06/27/13 16:47	kat	
2-Hexanone [591-78-6] ^	<2.2	U	ug/kg dry	1	0.8	2.2	4.4	EPA 8260B	06/27/13 16:47	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.2	U	ug/kg dry	1	1.2	2.2	4.4	EPA 8260B	06/27/13 16:47	kat	
Acetone [67-64-1] ^	<11	U	ug/kg dry	1	1.5	11	22	EPA 8260B	06/27/13 16:47	kat	
Benzene [71-43-2] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Bromochloromethane [74-97-5] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Bromodichloromethane [75-27-4] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Bromoform [75-25-2] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Bromomethane [74-83-9] ^	<4.4	U	ug/kg dry	1	0.8	4.4	8.7	EPA 8260B	06/27/13 16:47	kat	
Carbon disulfide [75-15-0] ^	<4.4	U	ug/kg dry	1	1.8	4.4	8.7	EPA 8260B	06/27/13 16:47	kat	
Carbon Tetrachloride [56-23-5] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Chlorobenzene [108-90-7] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Chloroethane [75-00-3] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Chloroform [67-66-3] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Chloromethane [74-87-3] ^	<0.9	U	ug/kg dry	1	0.6	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Cyclohexane [110-82-7] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Dibromochloromethane [124-48-1] ^	<0.9	U	ug/kg dry	1	0.2	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Dichlorodifluoromethane [75-71-8] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Ethylbenzene [100-41-4] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Freon 113 [76-13-1] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Isopropylbenzene [98-82-8] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<1.7	U	ug/kg dry	1	0.9	1.7	3.5	EPA 8260B	06/27/13 16:47	kat	
Methyl acetate [79-20-9] ^	<4.4	U	ug/kg dry	1	1.4	4.4	8.7	EPA 8260B	06/27/13 16:47	kat	
Methyl cyclohexane [108-87-2] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Methylene Chloride [75-09-2] ^	<4.4	U	ug/kg dry	1	0.6	4.4	8.7	EPA 8260B	06/27/13 16:47	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<0.9	U	ug/kg dry	1	0.2	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
o-Xylene [95-47-6] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Styrene [100-42-5] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Tetrachloroethene [127-18-4] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Toluene [108-88-3] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<0.9	U	ug/kg dry	1	0.6	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<0.9	U	ug/kg dry	1	0.3	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Trichlorofluoromethane [75-69-4] ^	<0.9	U	ug/kg dry	1	0.5	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Vinyl chloride [75-01-4] ^	<0.9	U	ug/kg dry	1	0.4	0.9	1.7	EPA 8260B	06/27/13 16:47	kat	
Xylenes (Total) [1330-20-7] ^	<1.7	U	ug/kg dry	1	0.9	1.7	3.5	EPA 8260B	06/27/13 16:47	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*43.5*	*102 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 16:47*	*kat*	
Dibromofluoromethane	*45*	*1*	*43.5*	*104 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 16:47*	*kat*	
Toluene-d8	*44*	*1*	*43.5*	*101 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 16:47*	*kat*	

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 16:47	kat	

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Description: TR-2ND-SB07-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-06
Sampled: 06/19/13 10:20
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 84.5

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 20:57	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<120	UQ	ug/kg dry	1	82	120	390	EPA 8270D	07/06/13 20:57	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<240	U	ug/kg dry	1	88	240	390	EPA 8270D	07/06/13 20:57	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<120	U	ug/kg dry	1	69	120	390	EPA 8270D	07/06/13 20:57	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<120	U	ug/kg dry	1	71	120	390	EPA 8270D	07/06/13 20:57	jfi	
2,4-Dichlorophenol [120-83-2] ^	<120	U	ug/kg dry	1	84	120	390	EPA 8270D	07/06/13 20:57	jfi	
2,4-Dimethylphenol [105-67-9] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 20:57	jfi	
2,4-Dinitrophenol [51-28-5] ^	<360	U	ug/kg dry	1	140	360	390	EPA 8270D	07/06/13 20:57	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<120	U	ug/kg dry	1	85	120	390	EPA 8270D	07/06/13 20:57	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<120	U	ug/kg dry	1	82	120	390	EPA 8270D	07/06/13 20:57	jfi	
2-Chloronaphthalene [91-58-7] ^	<120	U	ug/kg dry	1	77	120	390	EPA 8270D	07/06/13 20:57	jfi	
2-Chlorophenol [95-57-8] ^	<120	U	ug/kg dry	1	97	120	390	EPA 8270D	07/06/13 20:57	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<360	U	ug/kg dry	1	150	360	390	EPA 8270D	07/06/13 20:57	jfi	
2-Methylphenol [95-48-7] ^	<120	U	ug/kg dry	1	83	120	390	EPA 8270D	07/06/13 20:57	jfi	
2-Nitroaniline [88-74-4] ^	<120	U	ug/kg dry	1	79	120	390	EPA 8270D	07/06/13 20:57	jfi	
2-Nitrophenol [88-75-5] ^	<120	U	ug/kg dry	1	92	120	390	EPA 8270D	07/06/13 20:57	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<240	U	ug/kg dry	1	190	240	390	EPA 8270D	07/06/13 20:57	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 20:57	jfi	
3-Nitroaniline [99-09-2] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 20:57	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<120	U	ug/kg dry	1	86	120	390	EPA 8270D	07/06/13 20:57	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<120	U	ug/kg dry	1	79	120	390	EPA 8270D	07/06/13 20:57	jfi	
4-Chloroaniline [106-47-8] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 20:57	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<120	U	ug/kg dry	1	79	120	390	EPA 8270D	07/06/13 20:57	jfi	
4-Nitroaniline [100-01-6] ^	<120	U	ug/kg dry	1	97	120	390	EPA 8270D	07/06/13 20:57	jfi	
4-Nitrophenol [100-02-7] ^	<120	U	ug/kg dry	1	97	120	390	EPA 8270D	07/06/13 20:57	jfi	
Acetophenone [98-86-2] ^	<120	U	ug/kg dry	1	98	120	390	EPA 8270D	07/06/13 20:57	jfi	
Atrazine [1912-24-9] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 20:57	jfi	
Benzaldehyde [100-52-7] ^	<120	U	ug/kg dry	1	120	120	390	EPA 8270D	07/06/13 20:57	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<120	U	ug/kg dry	1	76	120	390	EPA 8270D	07/06/13 20:57	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 20:57	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<120	U	ug/kg dry	1	97	120	390	EPA 8270D	07/06/13 20:57	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**510**		ug/kg dry	1	100	120	390	EPA 8270D	07/06/13 20:57	jfi	
Butylbenzylphthalate [85-68-7] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 20:57	jfi	
Caprolactam [105-60-2] ^	<240	U	ug/kg dry	1	120	240	390	EPA 8270D	07/06/13 20:57	jfi	
Carbazole [86-74-8] ^	<120	U	ug/kg dry	1	81	120	390	EPA 8270D	07/06/13 20:57	jfi	
Dibenzofuran [132-64-9] ^	<120	U	ug/kg dry	1	78	120	390	EPA 8270D	07/06/13 20:57	jfi	
Diethylphthalate [84-66-2] ^	<120	U	ug/kg dry	1	89	120	390	EPA 8270D	07/06/13 20:57	jfi	
Dimethylphthalate [131-11-3] ^	<120	U	ug/kg dry	1	73	120	390	EPA 8270D	07/06/13 20:57	jfi	
Di-n-butylphthalate [84-74-2] ^	<120	U	ug/kg dry	1	94	120	390	EPA 8270D	07/06/13 20:57	jfi	
Di-n-octylphthalate [117-84-0] ^	<120	U	ug/kg dry	1	79	120	390	EPA 8270D	07/06/13 20:57	jfi	
Hexachlorobenzene [118-74-1] ^	<120	U	ug/kg dry	1	96	120	390	EPA 8270D	07/06/13 20:57	jfi	
Hexachlorobutadiene [87-68-3] ^	<120	U	ug/kg dry	1	95	120	390	EPA 8270D	07/06/13 20:57	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 20:57	jfi	
Hexachloroethane [67-72-1] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 20:57	jfi	
Isophorone [78-59-1] ^	<120	U	ug/kg dry	1	85	120	390	EPA 8270D	07/06/13 20:57	jfi	
Nitrobenzene [98-95-3] ^	<120	U	ug/kg dry	1	94	120	390	EPA 8270D	07/06/13 20:57	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 20:57	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<240	U	ug/kg dry	1	170	240	390	EPA 8270D	07/06/13 20:57	jfi	

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Pentachlorophenol [87-86-5] ^	<360	U	ug/kg dry	1	170	360	390	EPA 8270D	07/06/13 20:57	jfi	
Phenol [108-95-2] ^	<120	U	ug/kg dry	1	90	120	390	EPA 8270D	07/06/13 20:57	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2100*	*1*	*1970*	*105 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/06/13 20:57*	*jfi*	
2-Fluorobiphenyl	*1400*	*1*	*1970*	*68 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/06/13 20:57*	*jfi*	
2-Fluorophenol	*1400*	*1*	*1970*	*69 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/06/13 20:57*	*jfi*	
Nitrobenzene-d5	*1300*	*1*	*1970*	*65 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/06/13 20:57*	*jfi*	
Phenol-d5	*1600*	*1*	*1970*	*79 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/06/13 20:57*	*jfi*	
Terphenyl-d14	*2600*	*1*	*1970*	*133 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/06/13 20:57*	*jfi*	*QS-03*

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
9-Octadecenamide, (Z)- (01) [000301-02-0]	**2600**	J	ug/kg dry	1				EPA 8270D	07/06/13 20:57	jfi	
9-Octadecenamide, (Z)- (02) [000301-02-0]	**790**	J	ug/kg dry	1				EPA 8270D	07/06/13 20:57	jfi	
9-Octadecenamide, (Z)- (03) [000301-02-0]	**350**	J	ug/kg dry	1				EPA 8270D	07/06/13 20:57	jfi	
Hexadecanamide [000629-54-9]	**170**	J	ug/kg dry	1				EPA 8270D	07/06/13 20:57	jfi	
Octadecanamide [000124-26-5]	**550**	J	ug/kg dry	1				EPA 8270D	07/06/13 20:57	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/06/13 20:57	jfi	

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<30	U	ug/kg dry	1	21	30	41	EPA 8270D	07/03/13 14:26	jfi	
Acenaphthene [83-32-9] ^	<30	U	ug/kg dry	1	18	30	41	EPA 8270D	07/03/13 14:26	jfi	
Acenaphthylene [208-96-8] ^	<30	U	ug/kg dry	1	21	30	41	EPA 8270D	07/03/13 14:26	jfi	
Anthracene [120-12-7] ^	<30	U	ug/kg dry	1	17	30	41	EPA 8270D	07/03/13 14:26	jfi	
Benzo(a)anthracene [56-55-3] ^	<30	U	ug/kg dry	1	17	30	41	EPA 8270D	07/03/13 14:26	jfi	
Benzo(a)pyrene [50-32-8] ^	<30	U	ug/kg dry	1	18	30	41	EPA 8270D	07/03/13 14:26	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<30	U	ug/kg dry	1	20	30	41	EPA 8270D	07/03/13 14:26	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<30	U	ug/kg dry	1	18	30	41	EPA 8270D	07/03/13 14:26	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<30	U	ug/kg dry	1	22	30	41	EPA 8270D	07/03/13 14:26	jfi	
Chrysene [218-01-9] ^	<30	U	ug/kg dry	1	14	30	41	EPA 8270D	07/03/13 14:26	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<30	U	ug/kg dry	1	19	30	41	EPA 8270D	07/03/13 14:26	jfi	
Fluoranthene [206-44-0] ^	<30	U	ug/kg dry	1	20	30	41	EPA 8270D	07/03/13 14:26	jfi	
Fluorene [86-73-7] ^	<30	U	ug/kg dry	1	20	30	41	EPA 8270D	07/03/13 14:26	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<30	U	ug/kg dry	1	18	30	41	EPA 8270D	07/03/13 14:26	jfi	
Naphthalene [91-20-3] ^	<30	U	ug/kg dry	1	21	30	41	EPA 8270D	07/03/13 14:26	jfi	
Phenanthrene [85-01-8] ^	<30	U	ug/kg dry	1	18	30	41	EPA 8270D	07/03/13 14:26	jfi	
Pyrene [129-00-0] ^	<30	U	ug/kg dry	1	19	30	41	EPA 8270D	07/03/13 14:26	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1900*	*1*	*2370*	*81 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 14:26*	*jfi*	

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.78	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.78	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.66	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.66	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.46	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.46	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.88	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.88	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	0.98	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	0.98	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.53	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.73	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.73	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.0	EPA 8081B	06/26/13 17:56	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.0	EPA 8081B	06/29/13 13:00	RC	
Toxaphene [8001-35-2]	<24	U	ug/kg dry	1	12	24	39	EPA 8081B	06/26/13 17:56	RC	
Toxaphene [8001-35-2]	<24	U	ug/kg dry	1	12	24	39	EPA 8081B	06/29/13 13:00	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*17*	*1*	*39.5*	*42 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 17:56*	*RC*	*QS-03*
2,4,5,6-TCMX	*24*	*1*	*39.5*	*60 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 13:00*	*RC*	*QS-03*
Decachlorobiphenyl	*16*	*1*	*39.5*	*39 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 17:56*	*RC*	*QS-03*
Decachlorobiphenyl	*24*	*1*	*39.5*	*61 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 13:00*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<24	U	ug/kg dry	1	17	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<24	U	ug/kg dry	1	17	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1221 [11104-28-2] ^	<24	U	ug/kg dry	1	17	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1232 [11141-16-5] ^	<24	U	ug/kg dry	1	17	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1242 [53469-21-9] ^	<24	U	ug/kg dry	1	12	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1248 [12672-29-6] ^	<24	U	ug/kg dry	1	7.5	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1254 [11097-69-1] ^	**100**	PQ	ug/kg dry	1	18	24	47	EPA 8082A	06/27/13 14:42	RC	GC-06
PCB-1260 [11096-82-5] ^	**140**		ug/kg dry	1	13	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1262 [37324-23-5] ^	<24	U	ug/kg dry	1	17	24	47	EPA 8082A	06/27/13 14:42	RC	
PCB-1268 [11100-14-4] ^	<24	U	ug/kg dry	1	12	24	47	EPA 8082A	06/27/13 14:42	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
2,4,5,6-TCMX	*23*	*1*	*39.5*	*58 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 14:42*	*RC*	
Decachlorobiphenyl	*28*	*1*	*39.5*	*72 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 14:42*	*RC*	

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0326**		mg/kg dry	1	0.00396	0.00578	0.0101	EPA 7471B	06/21/13 08:15	IR	

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Description:	TR-2ND-SB07-0.5-01-0613	**Lab Sample ID:**	A303499-06	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**13000**		mg/kg dry	1	3.19	13.3	26.6	EPA 6010C	06/27/13 10:52	ACV	
Antimony [7440-36-0] ^	<1.33	U	mg/kg dry	1	0.652	1.33	2.66	EPA 6010C	06/27/13 10:52	ACV	
Arsenic [7440-38-2] ^	**2.29**	J	mg/kg dry	1	0.372	1.33	2.66	EPA 6010C	06/27/13 10:52	ACV	
Barium [7440-39-3] ^	**63.0**		mg/kg dry	1	0.0293	0.333	0.665	EPA 6010C	06/27/13 10:52	ACV	
Beryllium [7440-41-7] ^	**0.409**		mg/kg dry	1	0.00812	0.0333	0.0665	EPA 6010C	06/27/13 10:52	ACV	
Cadmium [7440-43-9] ^	<0.0665	U	mg/kg dry	1	0.0239	0.0665	0.133	EPA 6010C	06/27/13 10:52	ACV	
Calcium [7440-70-2] ^	**576**		mg/kg dry	1	1.73	16.6	33.3	EPA 6010C	06/27/13 10:52	ACV	
Chromium [7440-47-3] ^	**19.4**		mg/kg dry	1	0.0479	0.333	0.665	EPA 6010C	06/27/13 10:52	ACV	
Cobalt [7440-48-4] ^	**2.85**		mg/kg dry	1	0.0466	0.333	0.665	EPA 6010C	06/27/13 10:52	ACV	
Copper [7440-50-8] ^	**5.43**		mg/kg dry	1	0.105	0.333	0.665	EPA 6010C	06/27/13 10:52	ACV	
Iron [7439-89-6] ^	**6620**		mg/kg dry	1	2.26	3.33	6.65	EPA 6010C	06/27/13 10:52	ACV	
Lead [7439-92-1] ^	**6.65**		mg/kg dry	1	0.146	1.33	2.66	EPA 6010C	06/27/13 10:52	ACV	
Magnesium [7439-95-4] ^	**1630**		mg/kg dry	1	1.14	16.6	33.3	EPA 6010C	06/27/13 10:52	ACV	
Manganese [7439-96-5] ^	**189**		mg/kg dry	1	0.0146	0.665	1.33	EPA 6010C	06/27/13 10:52	ACV	
Nickel [7440-02-0] ^	**8.41**		mg/kg dry	1	0.0452	0.333	0.665	EPA 6010C	06/27/13 10:52	ACV	
Potassium [7440-09-7] ^	**579**		mg/kg dry	1	6.52	33.3	66.5	EPA 6010C	06/27/13 10:52	ACV	
Selenium [7782-49-2] ^	<1.33	U	mg/kg dry	1	0.426	1.33	2.66	EPA 6010C	06/27/13 10:52	ACV	
Silver [7440-22-4] ^	<0.333	U	mg/kg dry	1	0.122	0.333	0.665	EPA 6010C	06/27/13 10:52	ACV	
Sodium [7440-23-5] ^	**55.6**		mg/kg dry	1	3.99	16.6	33.3	EPA 6010C	06/27/13 10:52	ACV	
Thallium [7440-28-0] ^	**0.489**	J	mg/kg dry	1	0.306	1.33	2.66	EPA 6010C	06/27/13 10:52	ACV	
Vanadium [7440-62-2] ^	**17.1**		mg/kg dry	1	0.0519	0.665	1.33	EPA 6010C	06/27/13 10:52	ACV	
Zinc [7440-66-6] ^	**17.4**		mg/kg dry	1	0.279	0.665	1.33	EPA 6010C	06/27/13 10:52	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB07-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-07
Sampled: 06/19/13 10:40
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 80.7

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/kg dry	1	0.9	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/kg dry	1	0.9	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
1,4-Dioxane [123-91-1] ^	<51	U	ug/kg dry	1	5.6	51	100	EPA 8260B	06/27/13 17:23	kat	
2-Butanone [78-93-3] ^	<2.5	U	ug/kg dry	1	1.8	2.5	5.1	EPA 8260B	06/27/13 17:23	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/kg dry	1	0.9	2.5	5.1	EPA 8260B	06/27/13 17:23	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/kg dry	1	1.4	2.5	5.1	EPA 8260B	06/27/13 17:23	kat	
Acetone [67-64-1] ^	<13	U	ug/kg dry	1	1.7	13	25	EPA 8260B	06/27/13 17:23	kat	
Benzene [71-43-2] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Bromomethane [74-83-9] ^	<5.1	U	ug/kg dry	1	0.9	5.1	10	EPA 8260B	06/27/13 17:23	kat	
Carbon disulfide [75-15-0] ^	<5.1	U	ug/kg dry	1	2.1	5.1	10	EPA 8260B	06/27/13 17:23	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/kg dry	1	0.7	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/kg dry	1	1.0	2.0	4.1	EPA 8260B	06/27/13 17:23	kat	
Methyl acetate [79-20-9] ^	<5.1	U	ug/kg dry	1	1.6	5.1	10	EPA 8260B	06/27/13 17:23	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Methylene Chloride [75-09-2] ^	<5.1	U	ug/kg dry	1	0.7	5.1	10	EPA 8260B	06/27/13 17:23	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Styrene [100-42-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Toluene [108-88-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/kg dry	1	0.7	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:23	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/kg dry	1	1.0	2.0	4.1	EPA 8260B	06/27/13 17:23	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.6*	*109 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 17:23*	*kat*	
Dibromofluoromethane	*53*	*1*	*50.6*	*105 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 17:23*	*kat*	
Toluene-d8	*53*	*1*	*50.6*	*105 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 17:23*	*kat*	

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 17:23	kat	

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Description: TR-2ND-SB07-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-07
Sampled: 06/19/13 10:40
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 80.7

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<120	U	ug/kg dry	1	120	120	410	EPA 8270D	07/06/13 21:25	jfi	
1,1'-Biphenyl [92-52-4] ^	<120	UQ	ug/kg dry	1	120	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<120	UQ	ug/kg dry	1	86	120	410	EPA 8270D	07/06/13 21:25	jfi	QL-02
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<120	UQ	ug/kg dry	1	86	120	410	EPA 8270D	07/08/13 12:42	jfi	QL-02, Q
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<250	U	ug/kg dry	1	92	250	410	EPA 8270D	07/06/13 21:25	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<250	UQ	ug/kg dry	1	92	250	410	EPA 8270D	07/08/13 12:42	jfi	Q
2,4,5-Trichlorophenol [95-95-4] ^	<120	U	ug/kg dry	1	72	120	410	EPA 8270D	07/06/13 21:25	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<120	UQ	ug/kg dry	1	72	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2,4,6-Trichlorophenol [88-06-2] ^	<120	U	ug/kg dry	1	74	120	410	EPA 8270D	07/06/13 21:25	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<120	UQ	ug/kg dry	1	74	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2,4-Dichlorophenol [120-83-2] ^	<120	U	ug/kg dry	1	88	120	410	EPA 8270D	07/06/13 21:25	jfi	
2,4-Dichlorophenol [120-83-2] ^	<120	UQ	ug/kg dry	1	88	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2,4-Dimethylphenol [105-67-9] ^	<120	U	ug/kg dry	1	92	120	410	EPA 8270D	07/06/13 21:25	jfi	
2,4-Dimethylphenol [105-67-9] ^	<120	UQ	ug/kg dry	1	92	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2,4-Dinitrophenol [51-28-5] ^	<370	U	ug/kg dry	1	150	370	410	EPA 8270D	07/06/13 21:25	jfi	
2,4-Dinitrophenol [51-28-5] ^	<370	UQ	ug/kg dry	1	150	370	410	EPA 8270D	07/08/13 12:42	jfi	Q
2,4-Dinitrotoluene [121-14-2] ^	<120	U	ug/kg dry	1	89	120	410	EPA 8270D	07/06/13 21:25	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<120	UQ	ug/kg dry	1	89	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2,6-Dinitrotoluene [606-20-2] ^	<120	U	ug/kg dry	1	86	120	410	EPA 8270D	07/06/13 21:25	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<120	UQ	ug/kg dry	1	86	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2-Chloronaphthalene [91-58-7] ^	<120	U	ug/kg dry	1	81	120	410	EPA 8270D	07/06/13 21:25	jfi	
2-Chloronaphthalene [91-58-7] ^	<120	UQ	ug/kg dry	1	81	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2-Chlorophenol [95-57-8] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/06/13 21:25	jfi	
2-Chlorophenol [95-57-8] ^	<120	UQ	ug/kg dry	1	100	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<370	U	ug/kg dry	1	160	370	410	EPA 8270D	07/06/13 21:25	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<370	UQ	ug/kg dry	1	160	370	410	EPA 8270D	07/08/13 12:42	jfi	Q
2-Methylphenol [95-48-7] ^	<120	U	ug/kg dry	1	87	120	410	EPA 8270D	07/06/13 21:25	jfi	
2-Methylphenol [95-48-7] ^	<120	UQ	ug/kg dry	1	87	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2-Nitroaniline [88-74-4] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/06/13 21:25	jfi	
2-Nitroaniline [88-74-4] ^	<120	UQ	ug/kg dry	1	83	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
2-Nitrophenol [88-75-5] ^	<120	U	ug/kg dry	1	97	120	410	EPA 8270D	07/06/13 21:25	jfi	
2-Nitrophenol [88-75-5] ^	<120	UQ	ug/kg dry	1	97	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<250	U	ug/kg dry	1	200	250	410	EPA 8270D	07/06/13 21:25	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<250	UQ	ug/kg dry	1	200	250	410	EPA 8270D	07/08/13 12:42	jfi	Q
3,3'-Dichlorobenzidine [91-94-1] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/06/13 21:25	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<120	UQ	ug/kg dry	1	110	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
3-Nitroaniline [99-09-2] ^	<120	U	ug/kg dry	1	92	120	410	EPA 8270D	07/06/13 21:25	jfi	
3-Nitroaniline [99-09-2] ^	<120	UQ	ug/kg dry	1	92	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
4-Bromophenyl-phenylether [101-55-3] ^	<120	U	ug/kg dry	1	90	120	410	EPA 8270D	07/06/13 21:25	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<120	UQ	ug/kg dry	1	90	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
4-Chloro-3-methylphenol [59-50-7] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/06/13 21:25	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<120	UQ	ug/kg dry	1	83	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
4-Chloroaniline [106-47-8] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/06/13 21:25	jfi	
4-Chloroaniline [106-47-8] ^	<120	UQ	ug/kg dry	1	110	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
4-Chlorophenyl-phenylether [7005-72-3] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/06/13 21:25	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<120	UQ	ug/kg dry	1	83	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
4-Nitroaniline [100-01-6] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/06/13 21:25	jfi	
4-Nitroaniline [100-01-6] ^	<120	UQ	ug/kg dry	1	100	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
4-Nitrophenol [100-02-7] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/06/13 21:25	jfi	

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Description: TR-2ND-SB07-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-07
Sampled: 06/19/13 10:40
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 80.7

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4-Nitrophenol [100-02-7] ^	<120	UQ	ug/kg dry	1	100	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Acetophenone [98-86-2] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/06/13 21:25	jfi	
Acetophenone [98-86-2] ^	<120	UQ	ug/kg dry	1	100	120	410	EPA 8270D	07/08/13 12:42	jfi	QL-02, Q
Atrazine [1912-24-9] ^	<120	U	ug/kg dry	1	92	120	410	EPA 8270D	07/06/13 21:25	jfi	
Atrazine [1912-24-9] ^	<120	UQ	ug/kg dry	1	92	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Benzaldehyde [100-52-7] ^	<120	U	ug/kg dry	1	120	120	410	EPA 8270D	07/06/13 21:25	jfi	
Benzaldehyde [100-52-7] ^	<120	UQ	ug/kg dry	1	120	120	410	EPA 8270D	07/08/13 12:42	jfi	QL-02, Q
Bis(2-chloroethoxy)methane [111-91-1] ^	<120	U	ug/kg dry	1	79	120	410	EPA 8270D	07/06/13 21:25	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<120	UQ	ug/kg dry	1	79	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Bis(2-chloroethyl)ether [111-44-4] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/06/13 21:25	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<120	UQ	ug/kg dry	1	110	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Bis(2-chloroisopropyl)ether [108-60-1] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/06/13 21:25	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<120	UQ	ug/kg dry	1	100	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/06/13 21:25	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<120	UQ	ug/kg dry	1	110	120	410	EPA 8270D	07/08/13 12:42	jfi	QV-01, Q
Butylbenzylphthalate [85-68-7] ^	<120	U	ug/kg dry	1	120	120	410	EPA 8270D	07/06/13 21:25	jfi	
Butylbenzylphthalate [85-68-7] ^	<120	UQ	ug/kg dry	1	120	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Caprolactam [105-60-2] ^	<250	U	ug/kg dry	1	120	250	410	EPA 8270D	07/06/13 21:25	jfi	
Caprolactam [105-60-2] ^	<250	UQ	ug/kg dry	1	120	250	410	EPA 8270D	07/08/13 12:42	jfi	Q
Carbazole [86-74-8] ^	<120	U	ug/kg dry	1	84	120	410	EPA 8270D	07/06/13 21:25	jfi	
Carbazole [86-74-8] ^	<120	UQ	ug/kg dry	1	84	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Dibenzofuran [132-64-9] ^	<120	U	ug/kg dry	1	82	120	410	EPA 8270D	07/06/13 21:25	jfi	
Dibenzofuran [132-64-9] ^	<120	UQ	ug/kg dry	1	82	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Diethylphthalate [84-66-2] ^	<120	U	ug/kg dry	1	93	120	410	EPA 8270D	07/06/13 21:25	jfi	
Diethylphthalate [84-66-2] ^	<120	UQ	ug/kg dry	1	93	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Dimethylphthalate [131-11-3] ^	<120	U	ug/kg dry	1	77	120	410	EPA 8270D	07/06/13 21:25	jfi	
Dimethylphthalate [131-11-3] ^	<120	UQ	ug/kg dry	1	77	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Di-n-butylphthalate [84-74-2] ^	<120	U	ug/kg dry	1	98	120	410	EPA 8270D	07/06/13 21:25	jfi	
Di-n-butylphthalate [84-74-2] ^	<120	UQ	ug/kg dry	1	98	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Di-n-octylphthalate [117-84-0] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/06/13 21:25	jfi	
Di-n-octylphthalate [117-84-0] ^	<120	UQ	ug/kg dry	1	83	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Hexachlorobenzene [118-74-1] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/06/13 21:25	jfi	
Hexachlorobenzene [118-74-1] ^	<120	UQ	ug/kg dry	1	100	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Hexachlorobutadiene [87-68-3] ^	<120	U	ug/kg dry	1	99	120	410	EPA 8270D	07/06/13 21:25	jfi	
Hexachlorobutadiene [87-68-3] ^	<120	UQ	ug/kg dry	1	99	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Hexachlorocyclopentadiene [77-47-4] ^	<120	U	ug/kg dry	1	120	120	410	EPA 8270D	07/06/13 21:25	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<120	UQ	ug/kg dry	1	120	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Hexachloroethane [67-72-1] ^	<120	U	ug/kg dry	1	92	120	410	EPA 8270D	07/06/13 21:25	jfi	
Hexachloroethane [67-72-1] ^	<120	UQ	ug/kg dry	1	92	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Isophorone [78-59-1] ^	<120	U	ug/kg dry	1	89	120	410	EPA 8270D	07/06/13 21:25	jfi	
Isophorone [78-59-1] ^	<120	UQ	ug/kg dry	1	89	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
Nitrobenzene [98-95-3] ^	<120	U	ug/kg dry	1	98	120	410	EPA 8270D	07/06/13 21:25	jfi	
Nitrobenzene [98-95-3] ^	<120	UQ	ug/kg dry	1	98	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
N-Nitroso-di-n-propylamine [621-64-7] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/06/13 21:25	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<120	UQ	ug/kg dry	1	110	120	410	EPA 8270D	07/08/13 12:42	jfi	Q
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<250	U	ug/kg dry	1	170	250	410	EPA 8270D	07/06/13 21:25	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<250	UQ	ug/kg dry	1	170	250	410	EPA 8270D	07/08/13 12:42	jfi	Q
Pentachlorophenol [87-86-5] ^	<370	U	ug/kg dry	1	170	370	410	EPA 8270D	07/06/13 21:25	jfi	

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Pentachlorophenol [87-86-5] ^	<370	UQ	ug/kg dry	1	170	370	410	EPA 8270D	07/08/13 12:42	jfi	Q
Phenol [108-95-2] ^	<120	U	ug/kg dry	1	94	120	410	EPA 8270D	07/06/13 21:25	jfi	
Phenol [108-95-2] ^	<120	UQ	ug/kg dry	1	94	120	410	EPA 8270D	07/08/13 12:42	jfi	Q

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*1500*	*1*	*2070*	*72 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/06/13 21:25*	*jfi*	
2,4,6-Tribromophenol	*1600*	*1*	*2050*	*80 %*	*35-125*	*3G08001*	*EPA 8270D*	*07/08/13 12:42*	*jfi*	*Q*
2-Fluorobiphenyl	*900*	*1*	*2070*	*44 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/06/13 21:25*	*jfi*	*QS-03*
2-Fluorobiphenyl	*850*	*1*	*2050*	*42 %*	*45-105*	*3G08001*	*EPA 8270D*	*07/08/13 12:42*	*jfi*	*QM-14, QS-03, Q*
2-Fluorophenol	*1500*	*1*	*2070*	*72 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/06/13 21:25*	*jfi*	
2-Fluorophenol	*780*	*1*	*2050*	*38 %*	*35-105*	*3G08001*	*EPA 8270D*	*07/08/13 12:42*	*jfi*	*Q*
Nitrobenzene-d5	*1400*	*1*	*2070*	*66 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/06/13 21:25*	*jfi*	
Nitrobenzene-d5	*760*	*1*	*2050*	*37 %*	*35-100*	*3G08001*	*EPA 8270D*	*07/08/13 12:42*	*jfi*	*Q*
Phenol-d5	*1700*	*1*	*2070*	*83 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/06/13 21:25*	*jfi*	
Phenol-d5	*860*	*1*	*2050*	*42 %*	*40-100*	*3G08001*	*EPA 8270D*	*07/08/13 12:42*	*jfi*	*Q*
Terphenyl-d14	*1900*	*1*	*2070*	*92 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/06/13 21:25*	*jfi*	
Terphenyl-d14	*2200*	*1*	*2050*	*109 %*	*30-125*	*3G08001*	*EPA 8270D*	*07/08/13 12:42*	*jfi*	*Q*

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Cinnamyl cinnamate [000122-69-0]	**270**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:25	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/06/13 21:25	jfi	
Tentatively Identified Compounds [NA]	0	UQ	ug/kg dry	1				EPA 8270D	07/08/13 12:42	jfi	Q
unknown [NA]	**210**	JQ	ug/kg dry	1				EPA 8270D	07/08/13 12:42	jfi	Q

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<31	U	ug/kg dry	1	22	31	43	EPA 8270D	07/03/13 14:48	jfi	
Acenaphthene [83-32-9] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 14:48	jfi	
Acenaphthylene [208-96-8] ^	<31	U	ug/kg dry	1	22	31	43	EPA 8270D	07/03/13 14:48	jfi	
Anthracene [120-12-7] ^	<31	U	ug/kg dry	1	17	31	43	EPA 8270D	07/03/13 14:48	jfi	
Benzo(a)anthracene [56-55-3] ^	<31	U	ug/kg dry	1	17	31	43	EPA 8270D	07/03/13 14:48	jfi	
Benzo(a)pyrene [50-32-8] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 14:48	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<31	U	ug/kg dry	1	21	31	43	EPA 8270D	07/03/13 14:48	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 14:48	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<31	U	ug/kg dry	1	24	31	43	EPA 8270D	07/03/13 14:48	jfi	
Chrysene [218-01-9] ^	<31	U	ug/kg dry	1	15	31	43	EPA 8270D	07/03/13 14:48	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<31	U	ug/kg dry	1	20	31	43	EPA 8270D	07/03/13 14:48	jfi	
Fluoranthene [206-44-0] ^	<31	U	ug/kg dry	1	21	31	43	EPA 8270D	07/03/13 14:48	jfi	
Fluorene [86-73-7] ^	<31	U	ug/kg dry	1	21	31	43	EPA 8270D	07/03/13 14:48	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 14:48	jfi	
Naphthalene [91-20-3] ^	<31	U	ug/kg dry	1	22	31	43	EPA 8270D	07/03/13 14:48	jfi	
Phenanthrene [85-01-8] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 14:48	jfi	
Pyrene [129-00-0] ^	<31	U	ug/kg dry	1	20	31	43	EPA 8270D	07/03/13 14:48	jfi	

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
p-Terphenyl	*2000*	*1*	*2480*	*79 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 14:48*	*jfi*	

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.64	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.64	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.82	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.82	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.69	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.69	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.48	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.48	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.92	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.92	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.77	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.77	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.1	EPA 8081B	06/26/13 18:08	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.1	EPA 8081B	06/29/13 13:12	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	12	25	41	EPA 8081B	06/26/13 18:08	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	12	25	41	EPA 8081B	06/29/13 13:12	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*21*	*1*	*41.3*	*51 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 18:08*	*RC*	*QS-03*
2,4,5,6-TCMX	*23*	*1*	*41.2*	*57 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 13:12*	*RC*	*QS-03*
Decachlorobiphenyl	*22*	*1*	*41.3*	*54 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 18:08*	*RC*	*QS-03*
Decachlorobiphenyl	*25*	*1*	*41.2*	*60 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 13:12*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<25	U	ug/kg dry	1	17	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<25	U	ug/kg dry	1	17	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1221 [11104-28-2] ^	<25	U	ug/kg dry	1	17	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1232 [11141-16-5] ^	<25	U	ug/kg dry	1	17	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1242 [53469-21-9] ^	<25	U	ug/kg dry	1	12	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1248 [12672-29-6] ^	<25	U	ug/kg dry	1	7.8	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1254 [11097-69-1] ^	<25	U	ug/kg dry	1	19	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1260 [11096-82-5] ^	<25	U	ug/kg dry	1	14	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1262 [37324-23-5] ^	<25	U	ug/kg dry	1	17	25	50	EPA 8082A	06/27/13 14:54	RC	
PCB-1268 [11100-14-4] ^	<25	U	ug/kg dry	1	12	25	50	EPA 8082A	06/27/13 14:54	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*23*	*1*	*41.3*	*55 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 14:54*	*RC*	
Decachlorobiphenyl	*32*	*1*	*41.3*	*78 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 14:54*	*RC*	

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0271**		mg/kg dry	1	0.00426	0.00623	0.0109	EPA 7471B	06/21/13 08:19	IR	

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Description:	TR-2ND-SB07-04-06-0613	**Lab Sample ID:**	A303499-07	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 10:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**17800**		mg/kg dry	1	3.34	13.9	27.9	EPA 6010C	06/27/13 10:54	ACV	
Antimony [7440-36-0] ^	<1.39	U	mg/kg dry	1	0.682	1.39	2.79	EPA 6010C	06/27/13 10:54	ACV	
Arsenic [7440-38-2] ^	**3.09**		mg/kg dry	1	0.390	1.39	2.79	EPA 6010C	06/27/13 10:54	ACV	
Barium [7440-39-3] ^	**69.5**		mg/kg dry	1	0.0306	0.348	0.696	EPA 6010C	06/27/13 10:54	ACV	
Beryllium [7440-41-7] ^	**0.428**		mg/kg dry	1	0.00850	0.0348	0.0696	EPA 6010C	06/27/13 10:54	ACV	
Cadmium [7440-43-9] ^	<0.0696	U	mg/kg dry	1	0.0251	0.0696	0.139	EPA 6010C	06/27/13 10:54	ACV	
Calcium [7440-70-2] ^	**594**		mg/kg dry	1	1.81	17.4	34.8	EPA 6010C	06/27/13 10:54	ACV	
Chromium [7440-47-3] ^	**23.3**		mg/kg dry	1	0.0501	0.348	0.696	EPA 6010C	06/27/13 10:54	ACV	
Cobalt [7440-48-4] ^	**3.53**		mg/kg dry	1	0.0487	0.348	0.696	EPA 6010C	06/27/13 10:54	ACV	
Copper [7440-50-8] ^	**7.24**		mg/kg dry	1	0.110	0.348	0.696	EPA 6010C	06/27/13 10:54	ACV	
Iron [7439-89-6] ^	**8470**		mg/kg dry	1	2.37	3.48	6.96	EPA 6010C	06/27/13 10:54	ACV	
Lead [7439-92-1] ^	**6.07**		mg/kg dry	1	0.153	1.39	2.79	EPA 6010C	06/27/13 10:54	ACV	
Magnesium [7439-95-4] ^	**2130**		mg/kg dry	1	1.19	17.4	34.8	EPA 6010C	06/27/13 10:54	ACV	
Manganese [7439-96-5] ^	**124**		mg/kg dry	1	0.0153	0.696	1.39	EPA 6010C	06/27/13 10:54	ACV	
Nickel [7440-02-0] ^	**10.8**		mg/kg dry	1	0.0474	0.348	0.696	EPA 6010C	06/27/13 10:54	ACV	
Potassium [7440-09-7] ^	**732**		mg/kg dry	1	6.82	34.8	69.6	EPA 6010C	06/27/13 10:54	ACV	
Selenium [7782-49-2] ^	<1.39	U	mg/kg dry	1	0.446	1.39	2.79	EPA 6010C	06/27/13 10:54	ACV	
Silver [7440-22-4] ^	<0.348	U	mg/kg dry	1	0.128	0.348	0.696	EPA 6010C	06/27/13 10:54	ACV	
Sodium [7440-23-5] ^	**76.3**		mg/kg dry	1	4.18	17.4	34.8	EPA 6010C	06/27/13 10:54	ACV	
Thallium [7440-28-0] ^	**0.542**	J	mg/kg dry	1	0.320	1.39	2.79	EPA 6010C	06/27/13 10:54	ACV	
Vanadium [7440-62-2] ^	**21.9**		mg/kg dry	1	0.0543	0.696	1.39	EPA 6010C	06/27/13 10:54	ACV	
Zinc [7440-66-6] ^	**20.4**		mg/kg dry	1	0.292	0.696	1.39	EPA 6010C	06/27/13 10:54	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB07-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-08
Sampled: 06/19/13 10:45
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,2,3-Trichlorobenzene [87-61-6] ^	**8.7**	Q	ug/L	1	0.86	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/L	1	0.86	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,2,4-Trichlorobenzene [120-82-1] ^	**22**	Q	ug/L	1	0.70	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/L	1	0.70	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	06/28/13 22:46	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	07/01/13 17:49	kwb	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,2-Dichlorobenzene [95-50-1] ^	**1.5**	JQ	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/L	1	0.77	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/L	1	0.77	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,4-Dichlorobenzene [106-46-7] ^	**1.8**	JQ	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	06/28/13 22:46	kat	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	07/01/13 17:49	kwb	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	06/28/13 22:46	kat	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	07/01/13 17:49	kwb	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	06/28/13 22:46	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	07/01/13 17:49	kwb	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	06/28/13 22:46	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	07/01/13 17:49	kwb	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	06/28/13 22:46	kat	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	07/01/13 17:49	kwb	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	06/28/13 22:46	kat	

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Description: TR-2ND-SB07-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-08
Sampled: 06/19/13 10:45
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	07/01/13 17:49	kwb	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 22:46	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 17:49	kwb	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	06/28/13 22:46	kat	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	07/01/13 17:49	kwb	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	

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Description: TR-2ND-SB07-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-08
Sampled: 06/19/13 10:45
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 22:46	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 17:49	kwb	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 22:46	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 17:49	kwb	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*75-120*	*3F28011*	*EPA 8260B*	*06/28/13 22:46*	*kat*	
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*75-120*	*3F30006*	*EPA 8260B*	*07/01/13 17:49*	*kwb*	
Dibromofluoromethane	*32*	*1*	*50.0*	*64 %*	*85-115*	*3F28011*	*EPA 8260B*	*06/28/13 22:46*	*kat*	*QS-03*
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*85-115*	*3F30006*	*EPA 8260B*	*07/01/13 17:49*	*kwb*	
Toluene-d8	*37*	*1*	*50.0*	*74 %*	*85-120*	*3F28011*	*EPA 8260B*	*06/28/13 22:46*	*kat*	*QS-03*
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*85-120*	*3F30006*	*EPA 8260B*	*07/01/13 17:49*	*kwb*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<9.0	U	ug/L	1	7.0	9.0	10	EPA 8270D	07/07/13 10:29	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<6.0	U	ug/L	1	4.7	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<6.0	U	ug/L	1	3.6	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<6.0	U	ug/L	1	3.7	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,4-Dichlorophenol [120-83-2] ^	<6.0	U	ug/L	1	3.3	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,4-Dimethylphenol [105-67-9] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,4-Dinitrophenol [51-28-5] ^	<6.0	U	ug/L	1	5.2	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<6.0	U	ug/L	1	2.8	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
2-Chloronaphthalene [91-58-7] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
2-Chlorophenol [95-57-8] ^	<6.0	U	ug/L	1	2.8	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<6.0	U	ug/L	1	6.0	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
2-Methylphenol [95-48-7] ^	<3.0	U	ug/L	1	2.3	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
2-Nitroaniline [88-74-4] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
2-Nitrophenol [88-75-5] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<6.0	U	ug/L	1	4.5	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
3-Nitroaniline [99-09-2] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<6.0	U	ug/L	1	3.3	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<6.0	U	ug/L	1	2.6	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
4-Chloroaniline [106-47-8] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
4-Nitroaniline [100-01-6] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
4-Nitrophenol [100-02-7] ^	<3.0	U	ug/L	1	2.3	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Acetophenone [98-86-2] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Atrazine [1912-24-9] ^	<3.0	UQ	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 10:29	jfi	QL-02
Benzaldehyde [100-52-7] ^	<6.0	U	ug/L	1	5.4	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 10:29	jfi	

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Description: TR-2ND-SB07-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-08
Sampled: 06/19/13 10:45
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Bis(2-chloroethyl)ether [111-44-4] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**8.9**	J	ug/L	1	3.5	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Butylbenzylphthalate [85-68-7] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Caprolactam [105-60-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Carbazole [86-74-8] ^	<3.0	U	ug/L	1	2.5	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Dibenzofuran [132-64-9] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Diethylphthalate [84-66-2] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Dimethylphthalate [131-11-3] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Di-n-butylphthalate [84-74-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Di-n-octylphthalate [117-84-0] ^	<6.0	U	ug/L	1	3.4	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Hexachlorobenzene [118-74-1] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Hexachlorobutadiene [87-68-3] ^	<6.0	U	ug/L	1	3.6	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<6.0	U	ug/L	1	3.8	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Hexachloroethane [67-72-1] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Isophorone [78-59-1] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 10:29	jfi	
Nitrobenzene [98-95-3] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<6.0	U	ug/L	1	3.4	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<6.0	U	ug/L	1	5.4	6.0	10	EPA 8270D	07/07/13 10:29	jfi	
Pentachlorophenol [87-86-5] ^	<9.0	U	ug/L	1	6.3	9.0	10	EPA 8270D	07/07/13 10:29	jfi	
Phenol [108-95-2] ^	<3.0	U	ug/L	1	1.4	3.0	10	EPA 8270D	07/07/13 10:29	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*19*	*1*	*50.0*	*37 %*	*40-125*	*3F24010*	*EPA 8270D*	*07/07/13 10:29*	*jfi*	*QS-05*
2-Fluorobiphenyl	*39*	*1*	*50.0*	*79 %*	*50-110*	*3F24010*	*EPA 8270D*	*07/07/13 10:29*	*jfi*	
2-Fluorophenol	*8.7*	*1*	*50.0*	*17 %*	*20-110*	*3F24010*	*EPA 8270D*	*07/07/13 10:29*	*jfi*	*QS-05*
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*40-110*	*3F24010*	*EPA 8270D*	*07/07/13 10:29*	*jfi*	
Phenol-d5	*8.2*	*1*	*50.0*	*16 %*	*10-115*	*3F24010*	*EPA 8270D*	*07/07/13 10:29*	*jfi*	
Terphenyl-d14	*63*	*1*	*50.0*	*127 %*	*50-135*	*3F24010*	*EPA 8270D*	*07/07/13 10:29*	*jfi*	

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Description: TR-2ND-SB07-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-08
Sampled: 06/19/13 10:45
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/L	1				EPA 8270D	07/07/13 10:29	jfi	
unknown (01) [NA]	**5.4**	J	ug/L	1				EPA 8270D	07/07/13 10:29	jfi	
unknown (02) [NA]	**9.5**	J	ug/L	1				EPA 8270D	07/07/13 10:29	jfi	

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Description: TR-2ND-SB07-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-08
Sampled: 06/19/13 10:45
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<0.080	U	ug/L	1	0.042	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Acenaphthene [83-32-9] ^	<0.080	U	ug/L	1	0.045	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Acenaphthylene [208-96-8] ^	<0.080	U	ug/L	1	0.046	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Anthracene [120-12-7] ^	<0.080	U	ug/L	1	0.059	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Benzo(a)anthracene [56-55-3] ^	<0.080	U	ug/L	1	0.062	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Benzo(a)pyrene [50-32-8] ^	<0.080	UQ	ug/L	1	0.077	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	QL-02
Benzo(b)fluoranthene [205-99-2] ^	<0.080	U	ug/L	1	0.072	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<0.080	U	ug/L	1	0.072	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<0.080	U	ug/L	1	0.078	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Chrysene [218-01-9] ^	<0.080	U	ug/L	1	0.062	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<0.080	U	ug/L	1	0.069	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Fluoranthene [206-44-0] ^	<0.080	U	ug/L	1	0.075	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Fluorene [86-73-7] ^	<0.080	U	ug/L	1	0.047	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<0.080	U	ug/L	1	0.070	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Naphthalene [91-20-3] ^	<0.080	U	ug/L	1	0.045	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Phenanthrene [85-01-8] ^	<0.080	U	ug/L	1	0.063	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	
Pyrene [129-00-0] ^	<0.080	U	ug/L	1	0.075	0.080	0.10	EPA 8270D	07/05/13 14:07	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*3.3*	*1*	*4.00*	*82 %*	*70-130*	*3F21019*	*EPA 8270D*	*07/05/13 14:07*	*jfi*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB06-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-09
Sampled: 06/19/13 11:20
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 84.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/kg dry	1	0.9	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/kg dry	1	0.9	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
1,4-Dioxane [123-91-1] ^	<51	U	ug/kg dry	1	5.6	51	100	EPA 8260B	06/27/13 17:58	kat	
2-Butanone [78-93-3] ^	**9.6**		ug/kg dry	1	1.8	2.5	5.1	EPA 8260B	06/27/13 17:58	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/kg dry	1	0.9	2.5	5.1	EPA 8260B	06/27/13 17:58	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/kg dry	1	1.4	2.5	5.1	EPA 8260B	06/27/13 17:58	kat	
Acetone [67-64-1] ^	**43**		ug/kg dry	1	1.7	13	25	EPA 8260B	06/27/13 17:58	kat	
Benzene [71-43-2] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Bromomethane [74-83-9] ^	<5.1	U	ug/kg dry	1	0.9	5.1	10	EPA 8260B	06/27/13 17:58	kat	
Carbon disulfide [75-15-0] ^	<5.1	U	ug/kg dry	1	2.1	5.1	10	EPA 8260B	06/27/13 17:58	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/kg dry	1	0.7	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/kg dry	1	1.0	2.0	4.1	EPA 8260B	06/27/13 17:58	kat	
Methyl acetate [79-20-9] ^	<5.1	U	ug/kg dry	1	1.6	5.1	10	EPA 8260B	06/27/13 17:58	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Methylene Chloride [75-09-2] ^	<5.1	U	ug/kg dry	1	0.7	5.1	10	EPA 8260B	06/27/13 17:58	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Styrene [100-42-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Toluene [108-88-3] ^	**1.1**	J	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/kg dry	1	0.7	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 17:58	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/kg dry	1	1.0	2.0	4.1	EPA 8260B	06/27/13 17:58	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.8*	*103 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 17:58*	*kat*	
Dibromofluoromethane	*53*	*1*	*50.8*	*104 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 17:58*	*kat*	
Toluene-d8	*52*	*1*	*50.8*	*103 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 17:58*	*kat*	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 17:58	kat	

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Description: TR-2ND-SB06-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-09
Sampled: 06/19/13 11:20
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 84.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 21:54	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<120	UQ	ug/kg dry	1	82	120	390	EPA 8270D	07/06/13 21:54	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<240	U	ug/kg dry	1	88	240	390	EPA 8270D	07/06/13 21:54	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<120	U	ug/kg dry	1	69	120	390	EPA 8270D	07/06/13 21:54	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<120	U	ug/kg dry	1	71	120	390	EPA 8270D	07/06/13 21:54	jfi	
2,4-Dichlorophenol [120-83-2] ^	<120	U	ug/kg dry	1	84	120	390	EPA 8270D	07/06/13 21:54	jfi	
2,4-Dimethylphenol [105-67-9] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 21:54	jfi	
2,4-Dinitrophenol [51-28-5] ^	<360	U	ug/kg dry	1	140	360	390	EPA 8270D	07/06/13 21:54	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<120	U	ug/kg dry	1	86	120	390	EPA 8270D	07/06/13 21:54	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<120	U	ug/kg dry	1	82	120	390	EPA 8270D	07/06/13 21:54	jfi	
2-Chloronaphthalene [91-58-7] ^	<120	U	ug/kg dry	1	77	120	390	EPA 8270D	07/06/13 21:54	jfi	
2-Chlorophenol [95-57-8] ^	<120	U	ug/kg dry	1	98	120	390	EPA 8270D	07/06/13 21:54	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<360	U	ug/kg dry	1	150	360	390	EPA 8270D	07/06/13 21:54	jfi	
2-Methylphenol [95-48-7] ^	<120	U	ug/kg dry	1	83	120	390	EPA 8270D	07/06/13 21:54	jfi	
2-Nitroaniline [88-74-4] ^	<120	U	ug/kg dry	1	80	120	390	EPA 8270D	07/06/13 21:54	jfi	
2-Nitrophenol [88-75-5] ^	<120	U	ug/kg dry	1	93	120	390	EPA 8270D	07/06/13 21:54	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<240	U	ug/kg dry	1	190	240	390	EPA 8270D	07/06/13 21:54	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 21:54	jfi	
3-Nitroaniline [99-09-2] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 21:54	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<120	U	ug/kg dry	1	87	120	390	EPA 8270D	07/06/13 21:54	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<120	U	ug/kg dry	1	80	120	390	EPA 8270D	07/06/13 21:54	jfi	
4-Chloroaniline [106-47-8] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 21:54	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<120	U	ug/kg dry	1	80	120	390	EPA 8270D	07/06/13 21:54	jfi	
4-Nitroaniline [100-01-6] ^	<120	U	ug/kg dry	1	98	120	390	EPA 8270D	07/06/13 21:54	jfi	
4-Nitrophenol [100-02-7] ^	<120	U	ug/kg dry	1	98	120	390	EPA 8270D	07/06/13 21:54	jfi	
Acetophenone [98-86-2] ^	<120	U	ug/kg dry	1	99	120	390	EPA 8270D	07/06/13 21:54	jfi	
Atrazine [1912-24-9] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 21:54	jfi	
Benzaldehyde [100-52-7] ^	<120	U	ug/kg dry	1	120	120	390	EPA 8270D	07/06/13 21:54	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<120	U	ug/kg dry	1	76	120	390	EPA 8270D	07/06/13 21:54	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 21:54	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<120	U	ug/kg dry	1	98	120	390	EPA 8270D	07/06/13 21:54	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<120	U	ug/kg dry	1	100	120	390	EPA 8270D	07/06/13 21:54	jfi	
Butylbenzylphthalate [85-68-7] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 21:54	jfi	
Caprolactam [105-60-2] ^	<240	U	ug/kg dry	1	120	240	390	EPA 8270D	07/06/13 21:54	jfi	
Carbazole [86-74-8] ^	<120	U	ug/kg dry	1	81	120	390	EPA 8270D	07/06/13 21:54	jfi	
Dibenzofuran [132-64-9] ^	<120	U	ug/kg dry	1	79	120	390	EPA 8270D	07/06/13 21:54	jfi	
Diethylphthalate [84-66-2] ^	<120	U	ug/kg dry	1	89	120	390	EPA 8270D	07/06/13 21:54	jfi	
Dimethylphthalate [131-11-3] ^	<120	U	ug/kg dry	1	74	120	390	EPA 8270D	07/06/13 21:54	jfi	
Di-n-butylphthalate [84-74-2] ^	<120	U	ug/kg dry	1	94	120	390	EPA 8270D	07/06/13 21:54	jfi	
Di-n-octylphthalate [117-84-0] ^	<120	U	ug/kg dry	1	80	120	390	EPA 8270D	07/06/13 21:54	jfi	
Hexachlorobenzene [118-74-1] ^	<120	U	ug/kg dry	1	96	120	390	EPA 8270D	07/06/13 21:54	jfi	
Hexachlorobutadiene [87-68-3] ^	<120	U	ug/kg dry	1	95	120	390	EPA 8270D	07/06/13 21:54	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 21:54	jfi	
Hexachloroethane [67-72-1] ^	<120	U	ug/kg dry	1	88	120	390	EPA 8270D	07/06/13 21:54	jfi	
Isophorone [78-59-1] ^	<120	U	ug/kg dry	1	86	120	390	EPA 8270D	07/06/13 21:54	jfi	
Nitrobenzene [98-95-3] ^	<120	U	ug/kg dry	1	94	120	390	EPA 8270D	07/06/13 21:54	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<120	U	ug/kg dry	1	110	120	390	EPA 8270D	07/06/13 21:54	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<240	U	ug/kg dry	1	170	240	390	EPA 8270D	07/06/13 21:54	jfi	
Pentachlorophenol [87-86-5] ^	<360	U	ug/kg dry	1	170	360	390	EPA 8270D	07/06/13 21:54	jfi	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Phenol [108-95-2] ^	<120	U	ug/kg dry	1	90	120	390	EPA 8270D	07/06/13 21:54	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*1800*	*1*	*1980*	*91 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/06/13 21:54*	*jfi*	
2-Fluorobiphenyl	*990*	*1*	*1980*	*50 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/06/13 21:54*	*jfi*	
2-Fluorophenol	*1200*	*1*	*1980*	*60 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/06/13 21:54*	*jfi*	
Nitrobenzene-d5	*1100*	*1*	*1980*	*54 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/06/13 21:54*	*jfi*	
Phenol-d5	*1300*	*1*	*1980*	*68 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/06/13 21:54*	*jfi*	
Terphenyl-d14	*2000*	*1*	*1980*	*102 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/06/13 21:54*	*jfi*	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (01) [NA]	**370**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (02) [NA]	**240**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (03) [NA]	**530**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (04) [NA]	**360**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (05) [NA]	**250**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (06) [NA]	**960**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (07) [NA]	**160**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	
unknown (08) [NA]	**510**	J	ug/kg dry	1				EPA 8270D	07/06/13 21:54	jfi	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<30	U	ug/kg dry	1	21	30	42	EPA 8270D	07/03/13 15:10	jfi	
Acenaphthene [83-32-9] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:10	jfi	
Acenaphthylene [208-96-8] ^	<30	U	ug/kg dry	1	21	30	42	EPA 8270D	07/03/13 15:10	jfi	
Anthracene [120-12-7] ^	<30	U	ug/kg dry	1	17	30	42	EPA 8270D	07/03/13 15:10	jfi	
Benzo(a)anthracene [56-55-3] ^	<30	U	ug/kg dry	1	17	30	42	EPA 8270D	07/03/13 15:10	jfi	
Benzo(a)pyrene [50-32-8] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:10	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<30	U	ug/kg dry	1	20	30	42	EPA 8270D	07/03/13 15:10	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:10	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<30	U	ug/kg dry	1	23	30	42	EPA 8270D	07/03/13 15:10	jfi	
Chrysene [218-01-9] ^	<30	U	ug/kg dry	1	14	30	42	EPA 8270D	07/03/13 15:10	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<30	U	ug/kg dry	1	19	30	42	EPA 8270D	07/03/13 15:10	jfi	
Fluoranthene [206-44-0] ^	<30	U	ug/kg dry	1	20	30	42	EPA 8270D	07/03/13 15:10	jfi	
Fluorene [86-73-7] ^	<30	U	ug/kg dry	1	20	30	42	EPA 8270D	07/03/13 15:10	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:10	jfi	
Naphthalene [91-20-3] ^	<30	U	ug/kg dry	1	21	30	42	EPA 8270D	07/03/13 15:10	jfi	
Phenanthrene [85-01-8] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:10	jfi	
Pyrene [129-00-0] ^	<30	U	ug/kg dry	1	19	30	42	EPA 8270D	07/03/13 15:10	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1900*	*1*	*2380*	*81 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 15:10*	*jfi*	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.79	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.79	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.67	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.67	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.46	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.46	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.88	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.88	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	0.99	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	0.99	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.54	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.74	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.74	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.0	EPA 8081B	06/26/13 18:20	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.0	EPA 8081B	06/29/13 13:24	RC	
Toxaphene [8001-35-2]	<24	U	ug/kg dry	1	12	24	39	EPA 8081B	06/26/13 18:20	RC	
Toxaphene [8001-35-2]	<24	U	ug/kg dry	1	12	24	39	EPA 8081B	06/29/13 13:24	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*24*	*1*	*39.1*	*61 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 18:20*	*RC*	*QS-03*
2,4,5,6-TCMX	*28*	*1*	*39.7*	*69 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 13:24*	*RC*	*QS-03*
Decachlorobiphenyl	*20*	*1*	*39.1*	*50 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 18:20*	*RC*	*QS-03*
Decachlorobiphenyl	*24*	*1*	*39.7*	*61 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 13:24*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1221 [11104-28-2] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1232 [11141-16-5] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1242 [53469-21-9] ^	<24	U	ug/kg dry	1	12	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1248 [12672-29-6] ^	<24	U	ug/kg dry	1	7.5	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1254 [11097-69-1] ^	<24	U	ug/kg dry	1	18	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1260 [11096-82-5] ^	**19**	J	ug/kg dry	1	13	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1262 [37324-23-5] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:06	RC	
PCB-1268 [11100-14-4] ^	<24	U	ug/kg dry	1	12	24	48	EPA 8082A	06/27/13 15:06	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*29*	*1*	*39.1*	*73 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 15:06*	*RC*	
Decachlorobiphenyl	*30*	*1*	*39.1*	*77 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 15:06*	*RC*	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0411**		mg/kg dry	1	0.00464	0.00678	0.0119	EPA 7471B	06/21/13 08:32	IR	

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Description:	TR-2ND-SB06-0.5-01-0613	**Lab Sample ID:**	A303499-09	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:20	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	84.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**12300**		mg/kg dry	1	3.48	14.5	29.0	EPA 6010C	06/27/13 10:56	ACV	
Antimony [7440-36-0] ^	<1.45	U	mg/kg dry	1	0.711	1.45	2.90	EPA 6010C	06/27/13 10:56	ACV	
Arsenic [7440-38-2] ^	**3.10**		mg/kg dry	1	0.406	1.45	2.90	EPA 6010C	06/27/13 10:56	ACV	
Barium [7440-39-3] ^	**72.2**		mg/kg dry	1	0.0319	0.363	0.725	EPA 6010C	06/27/13 10:56	ACV	
Beryllium [7440-41-7] ^	**0.422**		mg/kg dry	1	0.00885	0.0363	0.0725	EPA 6010C	06/27/13 10:56	ACV	
Cadmium [7440-43-9] ^	**0.556**		mg/kg dry	1	0.0261	0.0725	0.145	EPA 6010C	06/27/13 10:56	ACV	
Calcium [7440-70-2] ^	**2110**		mg/kg dry	1	1.89	18.1	36.3	EPA 6010C	06/27/13 10:56	ACV	
Chromium [7440-47-3] ^	**17.8**		mg/kg dry	1	0.0522	0.363	0.725	EPA 6010C	06/27/13 10:56	ACV	
Cobalt [7440-48-4] ^	**3.53**		mg/kg dry	1	0.0508	0.363	0.725	EPA 6010C	06/27/13 10:56	ACV	
Copper [7440-50-8] ^	**20.1**		mg/kg dry	1	0.115	0.363	0.725	EPA 6010C	06/27/13 10:56	ACV	
Iron [7439-89-6] ^	**7250**		mg/kg dry	1	2.47	3.63	7.25	EPA 6010C	06/27/13 10:56	ACV	
Lead [7439-92-1] ^	**25.9**		mg/kg dry	1	0.160	1.45	2.90	EPA 6010C	06/27/13 10:56	ACV	
Magnesium [7439-95-4] ^	**1300**		mg/kg dry	1	1.24	18.1	36.3	EPA 6010C	06/27/13 10:56	ACV	
Manganese [7439-96-5] ^	**225**		mg/kg dry	1	0.0160	0.725	1.45	EPA 6010C	06/27/13 10:56	ACV	
Nickel [7440-02-0] ^	**8.78**		mg/kg dry	1	0.0493	0.363	0.725	EPA 6010C	06/27/13 10:56	ACV	
Potassium [7440-09-7] ^	**533**		mg/kg dry	1	7.11	36.3	72.5	EPA 6010C	06/27/13 10:56	ACV	
Selenium [7782-49-2] ^	<1.45	U	mg/kg dry	1	0.464	1.45	2.90	EPA 6010C	06/27/13 10:56	ACV	
Silver [7440-22-4] ^	<0.363	U	mg/kg dry	1	0.133	0.363	0.725	EPA 6010C	06/27/13 10:56	ACV	
Sodium [7440-23-5] ^	**35.7**	J	mg/kg dry	1	4.35	18.1	36.3	EPA 6010C	06/27/13 10:56	ACV	
Thallium [7440-28-0] ^	<1.45	U	mg/kg dry	1	0.334	1.45	2.90	EPA 6010C	06/27/13 10:56	ACV	
Vanadium [7440-62-2] ^	**15.9**		mg/kg dry	1	0.0566	0.725	1.45	EPA 6010C	06/27/13 10:56	ACV	
Zinc [7440-66-6] ^	**46.0**		mg/kg dry	1	0.305	0.725	1.45	EPA 6010C	06/27/13 10:56	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB06-05-07-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-10
Sampled: 06/19/13 11:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 79.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.3	U	ug/kg dry	1	0.8	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,1-Dichloroethane [75-34-3] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,1-Dichloroethene [75-35-4] ^	<1.3	U	ug/kg dry	1	0.8	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.3	U	ug/kg dry	1	1.2	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,2-Dibromoethane [106-93-4] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,2-Dichloroethane [107-06-2] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,2-Dichloropropane [78-87-5] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
1,4-Dioxane [123-91-1] ^	<63	U	ug/kg dry	1	7.0	63	130	EPA 8260B	06/27/13 18:33	kat	
2-Butanone [78-93-3] ^	<3.2	U	ug/kg dry	1	2.3	3.2	6.3	EPA 8260B	06/27/13 18:33	kat	
2-Hexanone [591-78-6] ^	<3.2	U	ug/kg dry	1	1.2	3.2	6.3	EPA 8260B	06/27/13 18:33	kat	
4-Methyl-2-pentanone [108-10-1] ^	<3.2	U	ug/kg dry	1	1.8	3.2	6.3	EPA 8260B	06/27/13 18:33	kat	
Acetone [67-64-1] ^	<16	U	ug/kg dry	1	2.2	16	32	EPA 8260B	06/27/13 18:33	kat	
Benzene [71-43-2] ^	<1.3	U	ug/kg dry	1	0.5	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Bromochloromethane [74-97-5] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Bromodichloromethane [75-27-4] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Bromoform [75-25-2] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Bromomethane [74-83-9] ^	<6.3	U	ug/kg dry	1	1.1	6.3	13	EPA 8260B	06/27/13 18:33	kat	
Carbon disulfide [75-15-0] ^	<6.3	U	ug/kg dry	1	2.7	6.3	13	EPA 8260B	06/27/13 18:33	kat	
Carbon Tetrachloride [56-23-5] ^	<1.3	U	ug/kg dry	1	0.8	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Chlorobenzene [108-90-7] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Chloroethane [75-00-3] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Chloroform [67-66-3] ^	<1.3	U	ug/kg dry	1	0.5	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Chloromethane [74-87-3] ^	<1.3	U	ug/kg dry	1	0.8	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Cyclohexane [110-82-7] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Dibromochloromethane [124-48-1] ^	<1.3	U	ug/kg dry	1	0.3	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.3	U	ug/kg dry	1	0.8	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Ethylbenzene [100-41-4] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Freon 113 [76-13-1] ^	<1.3	U	ug/kg dry	1	0.8	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Isopropylbenzene [98-82-8] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.5	U	ug/kg dry	1	1.3	2.5	5.1	EPA 8260B	06/27/13 18:33	kat	
Methyl acetate [79-20-9] ^	<6.3	U	ug/kg dry	1	2.0	6.3	13	EPA 8260B	06/27/13 18:33	kat	
Methyl cyclohexane [108-87-2] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Methylene Chloride [75-09-2] ^	<6.3	U	ug/kg dry	1	0.9	6.3	13	EPA 8260B	06/27/13 18:33	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.3	U	ug/kg dry	1	0.3	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
o-Xylene [95-47-6] ^	<1.3	U	ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Styrene [100-42-5] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Tetrachloroethene [127-18-4] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Toluene [108-88-3] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.3	U	ug/kg dry	1	0.9	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.3	U	ug/kg dry	1	0.4	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Trichlorofluoromethane [75-69-4] ^	**2.9**		ug/kg dry	1	0.7	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Vinyl chloride [75-01-4] ^	<1.3	U	ug/kg dry	1	0.6	1.3	2.5	EPA 8260B	06/27/13 18:33	kat	
Xylenes (Total) [1330-20-7] ^	<2.5	U	ug/kg dry	1	1.3	2.5	5.1	EPA 8260B	06/27/13 18:33	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*59.2*	*101 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 18:33*	*kat*	
Dibromofluoromethane	*58*	*1*	*59.2*	*98 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 18:33*	*kat*	
Toluene-d8	*60*	*1*	*59.2*	*101 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 18:33*	*kat*	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 18:33	kat	

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Description: TR-2ND-SB06-05-07-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-10
Sampled: 06/19/13 11:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 79.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 10:58	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<130	UQ	ug/kg dry	1	87	130	420	EPA 8270D	07/07/13 10:58	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<250	U	ug/kg dry	1	94	250	420	EPA 8270D	07/07/13 10:58	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<130	U	ug/kg dry	1	73	130	420	EPA 8270D	07/07/13 10:58	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<130	U	ug/kg dry	1	76	130	420	EPA 8270D	07/07/13 10:58	jfi	
2,4-Dichlorophenol [120-83-2] ^	<130	U	ug/kg dry	1	90	130	420	EPA 8270D	07/07/13 10:58	jfi	
2,4-Dimethylphenol [105-67-9] ^	<130	U	ug/kg dry	1	94	130	420	EPA 8270D	07/07/13 10:58	jfi	
2,4-Dinitrophenol [51-28-5] ^	<380	U	ug/kg dry	1	150	380	420	EPA 8270D	07/07/13 10:58	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<130	U	ug/kg dry	1	91	130	420	EPA 8270D	07/07/13 10:58	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<130	U	ug/kg dry	1	87	130	420	EPA 8270D	07/07/13 10:58	jfi	
2-Chloronaphthalene [91-58-7] ^	<130	U	ug/kg dry	1	82	130	420	EPA 8270D	07/07/13 10:58	jfi	
2-Chlorophenol [95-57-8] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<380	U	ug/kg dry	1	160	380	420	EPA 8270D	07/07/13 10:58	jfi	
2-Methylphenol [95-48-7] ^	<130	U	ug/kg dry	1	89	130	420	EPA 8270D	07/07/13 10:58	jfi	
2-Nitroaniline [88-74-4] ^	<130	U	ug/kg dry	1	85	130	420	EPA 8270D	07/07/13 10:58	jfi	
2-Nitrophenol [88-75-5] ^	<130	U	ug/kg dry	1	99	130	420	EPA 8270D	07/07/13 10:58	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<250	U	ug/kg dry	1	200	250	420	EPA 8270D	07/07/13 10:58	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 10:58	jfi	
3-Nitroaniline [99-09-2] ^	<130	U	ug/kg dry	1	94	130	420	EPA 8270D	07/07/13 10:58	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<130	U	ug/kg dry	1	92	130	420	EPA 8270D	07/07/13 10:58	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<130	U	ug/kg dry	1	85	130	420	EPA 8270D	07/07/13 10:58	jfi	
4-Chloroaniline [106-47-8] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 10:58	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<130	U	ug/kg dry	1	85	130	420	EPA 8270D	07/07/13 10:58	jfi	
4-Nitroaniline [100-01-6] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
4-Nitrophenol [100-02-7] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
Acetophenone [98-86-2] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
Atrazine [1912-24-9] ^	<130	U	ug/kg dry	1	94	130	420	EPA 8270D	07/07/13 10:58	jfi	
Benzaldehyde [100-52-7] ^	<130	U	ug/kg dry	1	130	130	420	EPA 8270D	07/07/13 10:58	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<130	U	ug/kg dry	1	81	130	420	EPA 8270D	07/07/13 10:58	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 10:58	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<130	U	ug/kg dry	1	110	130	420	EPA 8270D	07/07/13 10:58	jfi	
Butylbenzylphthalate [85-68-7] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 10:58	jfi	
Caprolactam [105-60-2] ^	<250	U	ug/kg dry	1	130	250	420	EPA 8270D	07/07/13 10:58	jfi	
Carbazole [86-74-8] ^	<130	U	ug/kg dry	1	86	130	420	EPA 8270D	07/07/13 10:58	jfi	
Dibenzofuran [132-64-9] ^	<130	U	ug/kg dry	1	83	130	420	EPA 8270D	07/07/13 10:58	jfi	
Diethylphthalate [84-66-2] ^	<130	U	ug/kg dry	1	95	130	420	EPA 8270D	07/07/13 10:58	jfi	
Dimethylphthalate [131-11-3] ^	<130	U	ug/kg dry	1	78	130	420	EPA 8270D	07/07/13 10:58	jfi	
Di-n-butylphthalate [84-74-2] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
Di-n-octylphthalate [117-84-0] ^	<130	U	ug/kg dry	1	85	130	420	EPA 8270D	07/07/13 10:58	jfi	
Hexachlorobenzene [118-74-1] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
Hexachlorobutadiene [87-68-3] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 10:58	jfi	
Hexachloroethane [67-72-1] ^	<130	U	ug/kg dry	1	94	130	420	EPA 8270D	07/07/13 10:58	jfi	
Isophorone [78-59-1] ^	<130	U	ug/kg dry	1	91	130	420	EPA 8270D	07/07/13 10:58	jfi	
Nitrobenzene [98-95-3] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 10:58	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<130	U	ug/kg dry	1	110	130	420	EPA 8270D	07/07/13 10:58	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<250	U	ug/kg dry	1	180	250	420	EPA 8270D	07/07/13 10:58	jfi	
Pentachlorophenol [87-86-5] ^	<380	U	ug/kg dry	1	180	380	420	EPA 8270D	07/07/13 10:58	jfi	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Phenol [108-95-2] ^	<130	U	ug/kg dry	1	96	130	420	EPA 8270D	07/07/13 10:58	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2100*	*1*	*2110*	*99 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 10:58*	*jfi*	
2-Fluorobiphenyl	*1600*	*1*	*2110*	*74 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 10:58*	*jfi*	
2-Fluorophenol	*1900*	*1*	*2110*	*92 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 10:58*	*jfi*	
Nitrobenzene-d5	*1800*	*1*	*2110*	*85 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 10:58*	*jfi*	
Phenol-d5	*2100*	*1*	*2110*	*101 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 10:58*	*jfi*	*QS-03*
Terphenyl-d14	*2500*	*1*	*2110*	*118 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 10:58*	*jfi*	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Propanol, 1-[1-methyl-2-(... [055956-25-7]	**230**	J	ug/kg dry	1				EPA 8270D	07/07/13 10:58	jfi	
9-Octadecenamide, (Z)- [000301-02-0]	**270**	J	ug/kg dry	1				EPA 8270D	07/07/13 10:58	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/07/13 10:58	jfi	
unknown (01) [NA]	**380**	J	ug/kg dry	1				EPA 8270D	07/07/13 10:58	jfi	
unknown (02) [NA]	**270**	J	ug/kg dry	1				EPA 8270D	07/07/13 10:58	jfi	
unknown (03) [NA]	**310**	J	ug/kg dry	1				EPA 8270D	07/07/13 10:58	jfi	
unknown (04) [NA]	**280**	J	ug/kg dry	1				EPA 8270D	07/07/13 10:58	jfi	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<32	U	ug/kg dry	1	23	32	44	EPA 8270D	07/03/13 15:31	jfi	
Acenaphthene [83-32-9] ^	<32	U	ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 15:31	jfi	
Acenaphthylene [208-96-8] ^	<32	U	ug/kg dry	1	23	32	44	EPA 8270D	07/03/13 15:31	jfi	
Anthracene [120-12-7] ^	<32	U	ug/kg dry	1	18	32	44	EPA 8270D	07/03/13 15:31	jfi	
Benzo(a)anthracene [56-55-3] ^	<32	U	ug/kg dry	1	18	32	44	EPA 8270D	07/03/13 15:31	jfi	
Benzo(a)pyrene [50-32-8] ^	<32	U	ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 15:31	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<32	U	ug/kg dry	1	22	32	44	EPA 8270D	07/03/13 15:31	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<32	U	ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 15:31	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<32	U	ug/kg dry	1	24	32	44	EPA 8270D	07/03/13 15:31	jfi	
Chrysene [218-01-9] ^	<32	U	ug/kg dry	1	15	32	44	EPA 8270D	07/03/13 15:31	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<32	U	ug/kg dry	1	20	32	44	EPA 8270D	07/03/13 15:31	jfi	
Fluoranthene [206-44-0] ^	<32	U	ug/kg dry	1	22	32	44	EPA 8270D	07/03/13 15:31	jfi	
Fluorene [86-73-7] ^	<32	U	ug/kg dry	1	22	32	44	EPA 8270D	07/03/13 15:31	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<32	U	ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 15:31	jfi	
Naphthalene [91-20-3] ^	<32	U	ug/kg dry	1	23	32	44	EPA 8270D	07/03/13 15:31	jfi	
Phenanthrene [85-01-8] ^	<32	U	ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 15:31	jfi	
Pyrene [129-00-0] ^	<32	U	ug/kg dry	1	20	32	44	EPA 8270D	07/03/13 15:31	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1900*	*1*	*2530*	*74 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 15:31*	*jfi*	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.83	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.83	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.71	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.71	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.49	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.49	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.94	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.94	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.0	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.0	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.78	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.78	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/26/13 18:32	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/29/13 13:36	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	13	25	42	EPA 8081B	06/26/13 18:32	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	13	25	42	EPA 8081B	06/29/13 13:36	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*19*	*1*	*41.6*	*44 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 18:32*	*RC*	*QS-03*
2,4,5,6-TCMX	*34*	*1*	*41.9*	*81 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 13:36*	*RC*	
Decachlorobiphenyl	*22*	*1*	*41.6*	*54 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 18:32*	*RC*	*QS-03*
Decachlorobiphenyl	*32*	*1*	*41.9*	*76 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 13:36*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<25	U	ug/kg dry	1	18	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<25	U	ug/kg dry	1	18	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1221 [11104-28-2] ^	<25	U	ug/kg dry	1	18	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1232 [11141-16-5] ^	<25	U	ug/kg dry	1	18	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1242 [53469-21-9] ^	<25	U	ug/kg dry	1	13	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1248 [12672-29-6] ^	<25	U	ug/kg dry	1	8.0	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1254 [11097-69-1] ^	<25	U	ug/kg dry	1	19	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1260 [11096-82-5] ^	<25	U	ug/kg dry	1	14	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1262 [37324-23-5] ^	<25	U	ug/kg dry	1	18	25	51	EPA 8082A	06/27/13 15:18	RC	
PCB-1268 [11100-14-4] ^	<25	U	ug/kg dry	1	13	25	51	EPA 8082A	06/27/13 15:18	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*21*	*1*	*41.6*	*50 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 15:18*	*RC*	
Decachlorobiphenyl	*31*	*1*	*41.6*	*75 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 15:18*	*RC*	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0179**		mg/kg dry	1	0.00493	0.00721	0.0126	EPA 7471B	06/21/13 08:36	IR	

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Description:	TR-2ND-SB06-05-07-0613	**Lab Sample ID:**	A303499-10	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**18600**		mg/kg dry	1	3.61	15.1	30.1	EPA 6010C	06/27/13 10:58	ACV	
Antimony [7440-36-0] ^	<1.51	U	mg/kg dry	1	0.738	1.51	3.01	EPA 6010C	06/27/13 10:58	ACV	
Arsenic [7440-38-2] ^	**2.85**	J	mg/kg dry	1	0.422	1.51	3.01	EPA 6010C	06/27/13 10:58	ACV	
Barium [7440-39-3] ^	**66.9**		mg/kg dry	1	0.0331	0.376	0.753	EPA 6010C	06/27/13 10:58	ACV	
Beryllium [7440-41-7] ^	**0.502**		mg/kg dry	1	0.00919	0.0376	0.0753	EPA 6010C	06/27/13 10:58	ACV	
Cadmium [7440-43-9] ^	<0.0753	U	mg/kg dry	1	0.0271	0.0753	0.151	EPA 6010C	06/27/13 10:58	ACV	
Calcium [7440-70-2] ^	**1090**		mg/kg dry	1	1.96	18.8	37.6	EPA 6010C	06/27/13 10:58	ACV	
Chromium [7440-47-3] ^	**23.5**		mg/kg dry	1	0.0542	0.376	0.753	EPA 6010C	06/27/13 10:58	ACV	
Cobalt [7440-48-4] ^	**3.28**		mg/kg dry	1	0.0527	0.376	0.753	EPA 6010C	06/27/13 10:58	ACV	
Copper [7440-50-8] ^	**6.27**		mg/kg dry	1	0.119	0.376	0.753	EPA 6010C	06/27/13 10:58	ACV	
Iron [7439-89-6] ^	**8580**		mg/kg dry	1	2.56	3.76	7.53	EPA 6010C	06/27/13 10:58	ACV	
Lead [7439-92-1] ^	**7.37**		mg/kg dry	1	0.166	1.51	3.01	EPA 6010C	06/27/13 10:58	ACV	
Magnesium [7439-95-4] ^	**1970**		mg/kg dry	1	1.29	18.8	37.6	EPA 6010C	06/27/13 10:58	ACV	
Manganese [7439-96-5] ^	**114**		mg/kg dry	1	0.0166	0.753	1.51	EPA 6010C	06/27/13 10:58	ACV	
Nickel [7440-02-0] ^	**10.7**		mg/kg dry	1	0.0512	0.376	0.753	EPA 6010C	06/27/13 10:58	ACV	
Potassium [7440-09-7] ^	**643**		mg/kg dry	1	7.38	37.6	75.3	EPA 6010C	06/27/13 10:58	ACV	
Selenium [7782-49-2] ^	<1.51	U	mg/kg dry	1	0.482	1.51	3.01	EPA 6010C	06/27/13 10:58	ACV	
Silver [7440-22-4] ^	<0.376	U	mg/kg dry	1	0.139	0.376	0.753	EPA 6010C	06/27/13 10:58	ACV	
Sodium [7440-23-5] ^	**52.8**		mg/kg dry	1	4.52	18.8	37.6	EPA 6010C	06/27/13 10:58	ACV	
Thallium [7440-28-0] ^	**0.511**	J	mg/kg dry	1	0.346	1.51	3.01	EPA 6010C	06/27/13 10:58	ACV	
Vanadium [7440-62-2] ^	**23.9**		mg/kg dry	1	0.0587	0.753	1.51	EPA 6010C	06/27/13 10:58	ACV	
Zinc [7440-66-6] ^	**21.4**		mg/kg dry	1	0.316	0.753	1.51	EPA 6010C	06/27/13 10:58	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB06D-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-11
Sampled: 06/19/13 11:25
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 83.4

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.1	U	ug/kg dry	1	0.4	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.1	U	ug/kg dry	1	0.7	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,1-Dichloroethane [75-34-3] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,1-Dichloroethene [75-35-4] ^	<1.1	U	ug/kg dry	1	0.7	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.1	U	ug/kg dry	1	1.0	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.1	U	ug/kg dry	1	0.9	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,2-Dibromoethane [106-93-4] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,2-Dichloroethane [107-06-2] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,2-Dichloropropane [78-87-5] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
1,4-Dioxane [123-91-1] ^	<55	U	ug/kg dry	1	6.0	55	110	EPA 8260B	06/27/13 19:08	kat	
2-Butanone [78-93-3] ^	<2.7	U	ug/kg dry	1	2.0	2.7	5.5	EPA 8260B	06/27/13 19:08	kat	
2-Hexanone [591-78-6] ^	<2.7	U	ug/kg dry	1	1.0	2.7	5.5	EPA 8260B	06/27/13 19:08	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.7	U	ug/kg dry	1	1.5	2.7	5.5	EPA 8260B	06/27/13 19:08	kat	
Acetone [67-64-1] ^	**8.3**	J	ug/kg dry	1	1.9	14	27	EPA 8260B	06/27/13 19:08	kat	
Benzene [71-43-2] ^	<1.1	U	ug/kg dry	1	0.4	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Bromochloromethane [74-97-5] ^	<1.1	U	ug/kg dry	1	0.4	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Bromodichloromethane [75-27-4] ^	<1.1	U	ug/kg dry	1	0.4	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Bromoform [75-25-2] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Bromomethane [74-83-9] ^	<5.5	U	ug/kg dry	1	1.0	5.5	11	EPA 8260B	06/27/13 19:08	kat	
Carbon disulfide [75-15-0] ^	<5.5	U	ug/kg dry	1	2.3	5.5	11	EPA 8260B	06/27/13 19:08	kat	
Carbon Tetrachloride [56-23-5] ^	<1.1	U	ug/kg dry	1	0.7	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Chlorobenzene [108-90-7] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Chloroethane [75-00-3] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Chloroform [67-66-3] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Chloromethane [74-87-3] ^	<1.1	U	ug/kg dry	1	0.7	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Cyclohexane [110-82-7] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Dibromochloromethane [124-48-1] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.1	U	ug/kg dry	1	0.7	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Ethylbenzene [100-41-4] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Freon 113 [76-13-1] ^	<1.1	U	ug/kg dry	1	0.7	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Isopropylbenzene [98-82-8] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.2	U	ug/kg dry	1	1.1	2.2	4.4	EPA 8260B	06/27/13 19:08	kat	
Methyl acetate [79-20-9] ^	<5.5	U	ug/kg dry	1	1.7	5.5	11	EPA 8260B	06/27/13 19:08	kat	
Methyl cyclohexane [108-87-2] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Methylene Chloride [75-09-2] ^	<5.5	U	ug/kg dry	1	0.8	5.5	11	EPA 8260B	06/27/13 19:08	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
o-Xylene [95-47-6] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Styrene [100-42-5] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Tetrachloroethene [127-18-4] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Toluene [108-88-3] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.1	U	ug/kg dry	1	0.8	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.1	U	ug/kg dry	1	0.3	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Trichlorofluoromethane [75-69-4] ^	<1.1	U	ug/kg dry	1	0.6	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Vinyl chloride [75-01-4] ^	<1.1	U	ug/kg dry	1	0.5	1.1	2.2	EPA 8260B	06/27/13 19:08	kat	
Xylenes (Total) [1330-20-7] ^	<2.2	U	ug/kg dry	1	1.1	2.2	4.4	EPA 8260B	06/27/13 19:08	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*54.5*	*102 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 19:08*	*kat*	
Dibromofluoromethane	*56*	*1*	*54.5*	*103 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 19:08*	*kat*	
Toluene-d8	*56*	*1*	*54.5*	*103 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 19:08*	*kat*	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 19:08	kat	

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Description: TR-2ND-SB06D-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-11
Sampled: 06/19/13 11:25
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 83.4

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<240	UD	ug/kg dry	2	230	240	790	EPA 8270D	07/07/13 18:02	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<240	UDQ	ug/kg dry	2	170	240	790	EPA 8270D	07/07/13 18:02	jfi	QL-02, R-01
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<480	UD	ug/kg dry	2	180	480	790	EPA 8270D	07/07/13 18:02	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<240	UD	ug/kg dry	2	140	240	790	EPA 8270D	07/07/13 18:02	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<240	UD	ug/kg dry	2	140	240	790	EPA 8270D	07/07/13 18:02	jfi	
2,4-Dichlorophenol [120-83-2] ^	<240	UD	ug/kg dry	2	170	240	790	EPA 8270D	07/07/13 18:02	jfi	
2,4-Dimethylphenol [105-67-9] ^	<240	UD	ug/kg dry	2	180	240	790	EPA 8270D	07/07/13 18:02	jfi	
2,4-Dinitrophenol [51-28-5] ^	<720	UD	ug/kg dry	2	290	720	790	EPA 8270D	07/07/13 18:02	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<240	UD	ug/kg dry	2	170	240	790	EPA 8270D	07/07/13 18:02	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<240	UD	ug/kg dry	2	170	240	790	EPA 8270D	07/07/13 18:02	jfi	
2-Chloronaphthalene [91-58-7] ^	<240	UD	ug/kg dry	2	160	240	790	EPA 8270D	07/07/13 18:02	jfi	
2-Chlorophenol [95-57-8] ^	<240	UD	ug/kg dry	2	200	240	790	EPA 8270D	07/07/13 18:02	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<720	UD	ug/kg dry	2	310	720	790	EPA 8270D	07/07/13 18:02	jfi	
2-Methylphenol [95-48-7] ^	<240	UD	ug/kg dry	2	170	240	790	EPA 8270D	07/07/13 18:02	jfi	
2-Nitroaniline [88-74-4] ^	<240	UD	ug/kg dry	2	160	240	790	EPA 8270D	07/07/13 18:02	jfi	
2-Nitrophenol [88-75-5] ^	<240	UD	ug/kg dry	2	190	240	790	EPA 8270D	07/07/13 18:02	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<480	UD	ug/kg dry	2	380	480	790	EPA 8270D	07/07/13 18:02	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<240	UD	ug/kg dry	2	220	240	790	EPA 8270D	07/07/13 18:02	jfi	
3-Nitroaniline [99-09-2] ^	<240	UD	ug/kg dry	2	180	240	790	EPA 8270D	07/07/13 18:02	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<240	UD	ug/kg dry	2	180	240	790	EPA 8270D	07/07/13 18:02	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<240	UD	ug/kg dry	2	160	240	790	EPA 8270D	07/07/13 18:02	jfi	
4-Chloroaniline [106-47-8] ^	<240	UD	ug/kg dry	2	220	240	790	EPA 8270D	07/07/13 18:02	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<240	UD	ug/kg dry	2	160	240	790	EPA 8270D	07/07/13 18:02	jfi	
4-Nitroaniline [100-01-6] ^	<240	UD	ug/kg dry	2	200	240	790	EPA 8270D	07/07/13 18:02	jfi	
4-Nitrophenol [100-02-7] ^	<240	UD	ug/kg dry	2	200	240	790	EPA 8270D	07/07/13 18:02	jfi	
Acetophenone [98-86-2] ^	<240	UD	ug/kg dry	2	200	240	790	EPA 8270D	07/07/13 18:02	jfi	
Atrazine [1912-24-9] ^	<240	UD	ug/kg dry	2	180	240	790	EPA 8270D	07/07/13 18:02	jfi	
Benzaldehyde [100-52-7] ^	<240	UD	ug/kg dry	2	240	240	790	EPA 8270D	07/07/13 18:02	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<240	UD	ug/kg dry	2	150	240	790	EPA 8270D	07/07/13 18:02	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<240	UD	ug/kg dry	2	220	240	790	EPA 8270D	07/07/13 18:02	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<240	UD	ug/kg dry	2	200	240	790	EPA 8270D	07/07/13 18:02	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**270**	JD	ug/kg dry	2	200	240	790	EPA 8270D	07/07/13 18:02	jfi	
Butylbenzylphthalate [85-68-7] ^	<240	UD	ug/kg dry	2	220	240	790	EPA 8270D	07/07/13 18:02	jfi	
Caprolactam [105-60-2] ^	<480	UD	ug/kg dry	2	240	480	790	EPA 8270D	07/07/13 18:02	jfi	
Carbazole [86-74-8] ^	<240	UD	ug/kg dry	2	160	240	790	EPA 8270D	07/07/13 18:02	jfi	
Dibenzofuran [132-64-9] ^	<240	UD	ug/kg dry	2	160	240	790	EPA 8270D	07/07/13 18:02	jfi	
Diethylphthalate [84-66-2] ^	<240	UD	ug/kg dry	2	180	240	790	EPA 8270D	07/07/13 18:02	jfi	
Dimethylphthalate [131-11-3] ^	<240	UD	ug/kg dry	2	150	240	790	EPA 8270D	07/07/13 18:02	jfi	
Di-n-butylphthalate [84-74-2] ^	<240	UD	ug/kg dry	2	190	240	790	EPA 8270D	07/07/13 18:02	jfi	
Di-n-octylphthalate [117-84-0] ^	<240	UD	ug/kg dry	2	160	240	790	EPA 8270D	07/07/13 18:02	jfi	
Hexachlorobenzene [118-74-1] ^	<240	UD	ug/kg dry	2	190	240	790	EPA 8270D	07/07/13 18:02	jfi	
Hexachlorobutadiene [87-68-3] ^	<240	UD	ug/kg dry	2	190	240	790	EPA 8270D	07/07/13 18:02	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<240	UD	ug/kg dry	2	220	240	790	EPA 8270D	07/07/13 18:02	jfi	
Hexachloroethane [67-72-1] ^	<240	UD	ug/kg dry	2	180	240	790	EPA 8270D	07/07/13 18:02	jfi	
Isophorone [78-59-1] ^	<240	UD	ug/kg dry	2	170	240	790	EPA 8270D	07/07/13 18:02	jfi	
Nitrobenzene [98-95-3] ^	<240	UD	ug/kg dry	2	190	240	790	EPA 8270D	07/07/13 18:02	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<240	UD	ug/kg dry	2	220	240	790	EPA 8270D	07/07/13 18:02	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<480	UD	ug/kg dry	2	340	480	790	EPA 8270D	07/07/13 18:02	jfi	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Pentachlorophenol [87-86-5] ^	<720	UD	ug/kg dry	2	340	720	790	EPA 8270D	07/07/13 18:02	jfi	
Phenol [108-95-2] ^	<240	UD	ug/kg dry	2	180	240	790	EPA 8270D	07/07/13 18:02	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*1800*	*2*	*2000*	*90 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 18:02*	*jfi*	
2-Fluorobiphenyl	*1200*	*2*	*2000*	*62 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 18:02*	*jfi*	
2-Fluorophenol	*1400*	*2*	*2000*	*68 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 18:02*	*jfi*	
Nitrobenzene-d5	*1200*	*2*	*2000*	*63 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 18:02*	*jfi*	
Phenol-d5	*1500*	*2*	*2000*	*77 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 18:02*	*jfi*	
Terphenyl-d14	*1800*	*2*	*2000*	*91 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 18:02*	*jfi*	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0	UD	ug/kg dry	2				EPA 8270D	07/07/13 18:02	jfi	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<30	U	ug/kg dry	1	22	30	42	EPA 8270D	07/03/13 15:53	jfi	
Acenaphthene [83-32-9] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:53	jfi	
Acenaphthylene [208-96-8] ^	<30	U	ug/kg dry	1	22	30	42	EPA 8270D	07/03/13 15:53	jfi	
Anthracene [120-12-7] ^	<30	U	ug/kg dry	1	17	30	42	EPA 8270D	07/03/13 15:53	jfi	
Benzo(a)anthracene [56-55-3] ^	<30	U	ug/kg dry	1	17	30	42	EPA 8270D	07/03/13 15:53	jfi	
Benzo(a)pyrene [50-32-8] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:53	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<30	U	ug/kg dry	1	20	30	42	EPA 8270D	07/03/13 15:53	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:53	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<30	U	ug/kg dry	1	23	30	42	EPA 8270D	07/03/13 15:53	jfi	
Chrysene [218-01-9] ^	<30	U	ug/kg dry	1	14	30	42	EPA 8270D	07/03/13 15:53	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<30	U	ug/kg dry	1	19	30	42	EPA 8270D	07/03/13 15:53	jfi	
Fluoranthene [206-44-0] ^	<30	U	ug/kg dry	1	20	30	42	EPA 8270D	07/03/13 15:53	jfi	
Fluorene [86-73-7] ^	<30	U	ug/kg dry	1	20	30	42	EPA 8270D	07/03/13 15:53	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:53	jfi	
Naphthalene [91-20-3] ^	<30	U	ug/kg dry	1	22	30	42	EPA 8270D	07/03/13 15:53	jfi	
Phenanthrene [85-01-8] ^	<30	U	ug/kg dry	1	18	30	42	EPA 8270D	07/03/13 15:53	jfi	
Pyrene [129-00-0] ^	<30	U	ug/kg dry	1	19	30	42	EPA 8270D	07/03/13 15:53	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*2100*	*1*	*2400*	*86 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 15:53*	*jfi*	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
4,4'-DDE [72-55-9] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
4,4'-DDT [50-29-3] ^	<2.4	UD	ug/kg dry	2	1.6	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Aldrin [309-00-2] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
alpha-BHC [319-84-6] ^	<2.4	UD	ug/kg dry	2	1.3	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
beta-BHC [319-85-7] ^	<2.4	UD	ug/kg dry	2	2.4	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Chlordane-alpha [5103-71-9] ^	<2.4	UD	ug/kg dry	2	1.1	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Chlordane-gamma [5566-34-7] ^	<2.4	UD	ug/kg dry	2	1.1	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
delta-BHC [319-86-8] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Dieldrin [60-57-1] ^	<2.4	UD	ug/kg dry	2	1.1	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Endosulfan I [959-98-8] ^	<2.4	UD	ug/kg dry	2	0.94	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Endosulfan II [33213-65-9] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Endosulfan sulfate [1031-07-8] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Endrin [72-20-8] ^	<2.4	UD	ug/kg dry	2	1.8	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Endrin aldehyde [7421-93-4] ^	<2.4	UD	ug/kg dry	2	2.0	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Endrin ketone [53494-70-5] ^	<2.4	UD	ug/kg dry	2	1.1	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
gamma-BHC [58-89-9] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Heptachlor [76-44-8] ^	<2.4	UD	ug/kg dry	2	1.5	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Heptachlor epoxide [1024-57-3] ^	<2.4	UD	ug/kg dry	2	1.2	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Methoxychlor [72-43-5] ^	<2.4	UD	ug/kg dry	2	2.1	2.4	4.1	EPA 8081B	06/26/13 18:44	RC	R-01
Toxaphene [8001-35-2]	<48	UD	ug/kg dry	2	24	48	79	EPA 8081B	06/26/13 18:44	RC	R-01

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*31*	*2*	*39.4*	*77 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 18:44*	*RC*	*R-01*
Decachlorobiphenyl	*27*	*2*	*39.4*	*68 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 18:44*	*RC*	*R-01*

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1221 [11104-28-2] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1232 [11141-16-5] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1242 [53469-21-9] ^	<24	U	ug/kg dry	1	12	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1248 [12672-29-6] ^	<24	U	ug/kg dry	1	7.6	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1254 [11097-69-1] ^	<24	U	ug/kg dry	1	18	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1260 [11096-82-5] ^	<24	UQ	ug/kg dry	1	13	24	48	EPA 8082A	06/27/13 15:30	RC	GC-07
PCB-1262 [37324-23-5] ^	<24	U	ug/kg dry	1	17	24	48	EPA 8082A	06/27/13 15:30	RC	
PCB-1268 [11100-14-4] ^	<24	U	ug/kg dry	1	12	24	48	EPA 8082A	06/27/13 15:30	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*31*	*1*	*39.4*	*78 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 15:30*	*RC*	
Decachlorobiphenyl	*27*	*1*	*39.4*	*68 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 15:30*	*RC*	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.180**		mg/kg dry	1	0.00401	0.00586	0.0103	EPA 7471B	06/21/13 08:39	IR	

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Description:	TR-2ND-SB06D-0.5-01-0613	**Lab Sample ID:**	A303499-11	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:25	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	83.4

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**11800**		mg/kg dry	1	2.88	12.0	24.0	EPA 6010C	06/27/13 10:59	ACV	
Antimony [7440-36-0] ^	<1.20	U	mg/kg dry	1	0.588	1.20	2.40	EPA 6010C	06/27/13 10:59	ACV	
Arsenic [7440-38-2] ^	**2.30**	J	mg/kg dry	1	0.336	1.20	2.40	EPA 6010C	06/27/13 10:59	ACV	
Barium [7440-39-3] ^	**102**		mg/kg dry	1	0.0264	0.300	0.600	EPA 6010C	06/27/13 10:59	ACV	
Beryllium [7440-41-7] ^	**0.639**		mg/kg dry	1	0.00732	0.0300	0.0600	EPA 6010C	06/27/13 10:59	ACV	
Cadmium [7440-43-9] ^	**0.0414**	J	mg/kg dry	1	0.0216	0.0600	0.120	EPA 6010C	06/27/13 10:59	ACV	
Calcium [7440-70-2] ^	**1060**		mg/kg dry	1	1.56	15.0	30.0	EPA 6010C	06/27/13 10:59	ACV	
Chromium [7440-47-3] ^	**13.1**		mg/kg dry	1	0.0432	0.300	0.600	EPA 6010C	06/27/13 10:59	ACV	
Cobalt [7440-48-4] ^	**3.25**		mg/kg dry	1	0.0420	0.300	0.600	EPA 6010C	06/27/13 10:59	ACV	
Copper [7440-50-8] ^	**2.37**		mg/kg dry	1	0.0947	0.300	0.600	EPA 6010C	06/27/13 10:59	ACV	
Iron [7439-89-6] ^	**5920**		mg/kg dry	1	2.04	3.00	6.00	EPA 6010C	06/27/13 10:59	ACV	
Lead [7439-92-1] ^	**6.71**		mg/kg dry	1	0.132	1.20	2.40	EPA 6010C	06/27/13 10:59	ACV	
Magnesium [7439-95-4] ^	**1130**		mg/kg dry	1	1.03	15.0	30.0	EPA 6010C	06/27/13 10:59	ACV	
Manganese [7439-96-5] ^	**1140**		mg/kg dry	1	0.0132	0.600	1.20	EPA 6010C	06/27/13 10:59	ACV	
Nickel [7440-02-0] ^	**7.61**		mg/kg dry	1	0.0408	0.300	0.600	EPA 6010C	06/27/13 10:59	ACV	
Potassium [7440-09-7] ^	**317**		mg/kg dry	1	5.88	30.0	60.0	EPA 6010C	06/27/13 10:59	ACV	
Selenium [7782-49-2] ^	<1.20	U	mg/kg dry	1	0.384	1.20	2.40	EPA 6010C	06/27/13 10:59	ACV	
Silver [7440-22-4] ^	<0.300	U	mg/kg dry	1	0.110	0.300	0.600	EPA 6010C	06/27/13 10:59	ACV	
Sodium [7440-23-5] ^	**35.3**		mg/kg dry	1	3.60	15.0	30.0	EPA 6010C	06/27/13 10:59	ACV	
Thallium [7440-28-0] ^	<1.20	U	mg/kg dry	1	0.276	1.20	2.40	EPA 6010C	06/27/13 10:59	ACV	
Vanadium [7440-62-2] ^	**12.1**		mg/kg dry	1	0.0468	0.600	1.20	EPA 6010C	06/27/13 10:59	ACV	
Zinc [7440-66-6] ^	**17.9**		mg/kg dry	1	0.252	0.600	1.20	EPA 6010C	06/27/13 10:59	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB06D-05-07-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-12
Sampled: 06/19/13 11:35
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 78.2

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,1-Dichloroethane [75-34-3] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,1-Dichloroethene [75-35-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,2-Dibromoethane [106-93-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,2-Dichloroethane [107-06-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,2-Dichloropropane [78-87-5] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
1,4-Dioxane [123-91-1] ^	<58	U	ug/kg dry	1	6.4	58	120	EPA 8260B	06/27/13 19:42	kat	
2-Butanone [78-93-3] ^	<2.9	U	ug/kg dry	1	2.1	2.9	5.8	EPA 8260B	06/27/13 19:42	kat	
2-Hexanone [591-78-6] ^	<2.9	U	ug/kg dry	1	1.1	2.9	5.8	EPA 8260B	06/27/13 19:42	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.9	U	ug/kg dry	1	1.6	2.9	5.8	EPA 8260B	06/27/13 19:42	kat	
Acetone [67-64-1] ^	<14	U	ug/kg dry	1	2.0	14	29	EPA 8260B	06/27/13 19:42	kat	
Benzene [71-43-2] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Bromochloromethane [74-97-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Bromodichloromethane [75-27-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Bromoform [75-25-2] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Bromomethane [74-83-9] ^	<5.8	U	ug/kg dry	1	1.0	5.8	12	EPA 8260B	06/27/13 19:42	kat	
Carbon disulfide [75-15-0] ^	<5.8	U	ug/kg dry	1	2.4	5.8	12	EPA 8260B	06/27/13 19:42	kat	
Carbon Tetrachloride [56-23-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Chlorobenzene [108-90-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Chloroethane [75-00-3] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Chloroform [67-66-3] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Chloromethane [74-87-3] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Cyclohexane [110-82-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Dibromochloromethane [124-48-1] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Dichlorodifluoromethane [75-71-8] ^	**2.0**	J	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Ethylbenzene [100-41-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Freon 113 [76-13-1] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Isopropylbenzene [98-82-8] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.3	U	ug/kg dry	1	1.1	2.3	4.6	EPA 8260B	06/27/13 19:42	kat	
Methyl acetate [79-20-9] ^	<5.8	U	ug/kg dry	1	1.8	5.8	12	EPA 8260B	06/27/13 19:42	kat	
Methyl cyclohexane [108-87-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Methylene Chloride [75-09-2] ^	<5.8	U	ug/kg dry	1	0.8	5.8	12	EPA 8260B	06/27/13 19:42	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
o-Xylene [95-47-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Styrene [100-42-5] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Tetrachloroethene [127-18-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Toluene [108-88-3] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Trichlorofluoromethane [75-69-4] ^	**2.7**		ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Vinyl chloride [75-01-4] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 19:42	kat	
Xylenes (Total) [1330-20-7] ^	<2.3	U	ug/kg dry	1	1.1	2.3	4.6	EPA 8260B	06/27/13 19:42	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*57.8*	*101 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 19:42*	*kat*	
Dibromofluoromethane	*57*	*1*	*57.8*	*98 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 19:42*	*kat*	
Toluene-d8	*58*	*1*	*57.8*	*101 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 19:42*	*kat*	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 19:42	kat	

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Description: TR-2ND-SB06D-05-07-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-12
Sampled: 06/19/13 11:35
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 78.2

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 14:44	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<130	UQ	ug/kg dry	1	88	130	420	EPA 8270D	07/07/13 14:44	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<260	U	ug/kg dry	1	95	260	420	EPA 8270D	07/07/13 14:44	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<130	U	ug/kg dry	1	74	130	420	EPA 8270D	07/07/13 14:44	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<130	U	ug/kg dry	1	77	130	420	EPA 8270D	07/07/13 14:44	jfi	
2,4-Dichlorophenol [120-83-2] ^	<130	U	ug/kg dry	1	91	130	420	EPA 8270D	07/07/13 14:44	jfi	
2,4-Dimethylphenol [105-67-9] ^	<130	U	ug/kg dry	1	95	130	420	EPA 8270D	07/07/13 14:44	jfi	
2,4-Dinitrophenol [51-28-5] ^	<380	U	ug/kg dry	1	150	380	420	EPA 8270D	07/07/13 14:44	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<130	U	ug/kg dry	1	92	130	420	EPA 8270D	07/07/13 14:44	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<130	U	ug/kg dry	1	88	130	420	EPA 8270D	07/07/13 14:44	jfi	
2-Chloronaphthalene [91-58-7] ^	<130	U	ug/kg dry	1	83	130	420	EPA 8270D	07/07/13 14:44	jfi	
2-Chlorophenol [95-57-8] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<380	U	ug/kg dry	1	170	380	420	EPA 8270D	07/07/13 14:44	jfi	
2-Methylphenol [95-48-7] ^	<130	U	ug/kg dry	1	89	130	420	EPA 8270D	07/07/13 14:44	jfi	
2-Nitroaniline [88-74-4] ^	<130	U	ug/kg dry	1	86	130	420	EPA 8270D	07/07/13 14:44	jfi	
2-Nitrophenol [88-75-5] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<260	U	ug/kg dry	1	200	260	420	EPA 8270D	07/07/13 14:44	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 14:44	jfi	
3-Nitroaniline [99-09-2] ^	<130	U	ug/kg dry	1	95	130	420	EPA 8270D	07/07/13 14:44	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<130	U	ug/kg dry	1	93	130	420	EPA 8270D	07/07/13 14:44	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<130	U	ug/kg dry	1	86	130	420	EPA 8270D	07/07/13 14:44	jfi	
4-Chloroaniline [106-47-8] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 14:44	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<130	U	ug/kg dry	1	86	130	420	EPA 8270D	07/07/13 14:44	jfi	
4-Nitroaniline [100-01-6] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
4-Nitrophenol [100-02-7] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
Acetophenone [98-86-2] ^	<130	U	ug/kg dry	1	110	130	420	EPA 8270D	07/07/13 14:44	jfi	
Atrazine [1912-24-9] ^	<130	U	ug/kg dry	1	95	130	420	EPA 8270D	07/07/13 14:44	jfi	
Benzaldehyde [100-52-7] ^	<130	U	ug/kg dry	1	130	130	420	EPA 8270D	07/07/13 14:44	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<130	U	ug/kg dry	1	82	130	420	EPA 8270D	07/07/13 14:44	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 14:44	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<130	U	ug/kg dry	1	110	130	420	EPA 8270D	07/07/13 14:44	jfi	
Butylbenzylphthalate [85-68-7] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 14:44	jfi	
Caprolactam [105-60-2] ^	<260	U	ug/kg dry	1	130	260	420	EPA 8270D	07/07/13 14:44	jfi	
Carbazole [86-74-8] ^	<130	U	ug/kg dry	1	87	130	420	EPA 8270D	07/07/13 14:44	jfi	
Dibenzofuran [132-64-9] ^	<130	U	ug/kg dry	1	84	130	420	EPA 8270D	07/07/13 14:44	jfi	
Diethylphthalate [84-66-2] ^	<130	U	ug/kg dry	1	96	130	420	EPA 8270D	07/07/13 14:44	jfi	
Dimethylphthalate [131-11-3] ^	<130	U	ug/kg dry	1	79	130	420	EPA 8270D	07/07/13 14:44	jfi	
Di-n-butylphthalate [84-74-2] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
Di-n-octylphthalate [117-84-0] ^	<130	U	ug/kg dry	1	86	130	420	EPA 8270D	07/07/13 14:44	jfi	
Hexachlorobenzene [118-74-1] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
Hexachlorobutadiene [87-68-3] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 14:44	jfi	
Hexachloroethane [67-72-1] ^	<130	U	ug/kg dry	1	95	130	420	EPA 8270D	07/07/13 14:44	jfi	
Isophorone [78-59-1] ^	<130	U	ug/kg dry	1	92	130	420	EPA 8270D	07/07/13 14:44	jfi	
Nitrobenzene [98-95-3] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 14:44	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 14:44	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<260	U	ug/kg dry	1	180	260	420	EPA 8270D	07/07/13 14:44	jfi	
Pentachlorophenol [87-86-5] ^	<380	U	ug/kg dry	1	180	380	420	EPA 8270D	07/07/13 14:44	jfi	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Phenol [108-95-2] ^	<130	U	ug/kg dry	1	97	130	420	EPA 8270D	07/07/13 14:44	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2000*	*1*	*2130*	*96 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 14:44*	*jfi*	
2-Fluorobiphenyl	*1400*	*1*	*2130*	*68 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 14:44*	*jfi*	
2-Fluorophenol	*1900*	*1*	*2130*	*88 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 14:44*	*jfi*	
Nitrobenzene-d5	*1700*	*1*	*2130*	*80 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 14:44*	*jfi*	
Phenol-d5	*2200*	*1*	*2130*	*104 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 14:44*	*jfi*	*QS-03*
Terphenyl-d14	*2500*	*1*	*2130*	*117 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 14:44*	*jfi*	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
9-Octadecenamide, (Z)- [000301-02-0]	**260**	J	ug/kg dry	1				EPA 8270D	07/07/13 14:44	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/07/13 14:44	jfi	
unknown (01) [NA]	**180**	J	ug/kg dry	1				EPA 8270D	07/07/13 14:44	jfi	
unknown (02) [NA]	**230**	J	ug/kg dry	1				EPA 8270D	07/07/13 14:44	jfi	
unknown (03) [NA]	**220**	J	ug/kg dry	1				EPA 8270D	07/07/13 14:44	jfi	
unknown (04) [NA]	**250**	J	ug/kg dry	1				EPA 8270D	07/07/13 14:44	jfi	
unknwon [NA]	**340**	J	ug/kg dry	1				EPA 8270D	07/07/13 14:44	jfi	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<32	U	ug/kg dry	1	23	32	45	EPA 8270D	07/03/13 16:15	jfi	
Acenaphthene [83-32-9] ^	<32	U	ug/kg dry	1	19	32	45	EPA 8270D	07/03/13 16:15	jfi	
Acenaphthylene [208-96-8] ^	<32	U	ug/kg dry	1	23	32	45	EPA 8270D	07/03/13 16:15	jfi	
Anthracene [120-12-7] ^	<32	U	ug/kg dry	1	18	32	45	EPA 8270D	07/03/13 16:15	jfi	
Benzo(a)anthracene [56-55-3] ^	<32	U	ug/kg dry	1	18	32	45	EPA 8270D	07/03/13 16:15	jfi	
Benzo(a)pyrene [50-32-8] ^	<32	U	ug/kg dry	1	19	32	45	EPA 8270D	07/03/13 16:15	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<32	U	ug/kg dry	1	22	32	45	EPA 8270D	07/03/13 16:15	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<32	U	ug/kg dry	1	19	32	45	EPA 8270D	07/03/13 16:15	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<32	U	ug/kg dry	1	24	32	45	EPA 8270D	07/03/13 16:15	jfi	
Chrysene [218-01-9] ^	<32	U	ug/kg dry	1	15	32	45	EPA 8270D	07/03/13 16:15	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<32	U	ug/kg dry	1	20	32	45	EPA 8270D	07/03/13 16:15	jfi	
Fluoranthene [206-44-0] ^	<32	U	ug/kg dry	1	22	32	45	EPA 8270D	07/03/13 16:15	jfi	
Fluorene [86-73-7] ^	<32	U	ug/kg dry	1	22	32	45	EPA 8270D	07/03/13 16:15	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<32	U	ug/kg dry	1	19	32	45	EPA 8270D	07/03/13 16:15	jfi	
Naphthalene [91-20-3] ^	<32	U	ug/kg dry	1	23	32	45	EPA 8270D	07/03/13 16:15	jfi	
Phenanthrene [85-01-8] ^	<32	U	ug/kg dry	1	19	32	45	EPA 8270D	07/03/13 16:15	jfi	
Pyrene [129-00-0] ^	<32	U	ug/kg dry	1	20	32	45	EPA 8270D	07/03/13 16:15	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*2100*	*1*	*2560*	*82 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 16:15*	*jfi*	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.84	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.72	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.58	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.58	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.64	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.58	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.50	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.95	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.58	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.64	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.79	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.61	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/26/13 18:56	RC	
Toxaphene [8001-35-2]	<26	U	ug/kg dry	1	13	26	42	EPA 8081B	06/26/13 18:56	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*30*	*1*	*42.5*	*70 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 18:56*	*RC*	
Decachlorobiphenyl	*27*	*1*	*42.5*	*64 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 18:56*	*RC*	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<26	U	ug/kg dry	1	18	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<26	U	ug/kg dry	1	18	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1221 [11104-28-2] ^	<26	U	ug/kg dry	1	18	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1232 [11141-16-5] ^	<26	U	ug/kg dry	1	18	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1242 [53469-21-9] ^	<26	U	ug/kg dry	1	13	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1248 [12672-29-6] ^	<26	U	ug/kg dry	1	8.1	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1254 [11097-69-1] ^	<26	U	ug/kg dry	1	19	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1260 [11096-82-5] ^	<26	U	ug/kg dry	1	14	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1262 [37324-23-5] ^	<26	U	ug/kg dry	1	18	26	51	EPA 8082A	06/27/13 16:06	RC	
PCB-1268 [11100-14-4] ^	<26	U	ug/kg dry	1	13	26	51	EPA 8082A	06/27/13 16:06	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*26*	*1*	*42.5*	*62 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 16:06*	*RC*	
Decachlorobiphenyl	*34*	*1*	*42.5*	*80 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 16:06*	*RC*	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0175**		mg/kg dry	1	0.00427	0.00625	0.0110	EPA 7471B	06/21/13 08:42	IR	

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Description:	TR-2ND-SB06D-05-07-0613	**Lab Sample ID:**	A303499-12	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 11:35	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	78.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**17000**		mg/kg dry	1	3.07	12.8	25.6	EPA 6010C	06/27/13 11:01	ACV	
Antimony [7440-36-0] ^	<1.28	U	mg/kg dry	1	0.626	1.28	2.56	EPA 6010C	06/27/13 11:01	ACV	
Arsenic [7440-38-2] ^	**2.47**	J	mg/kg dry	1	0.358	1.28	2.56	EPA 6010C	06/27/13 11:01	ACV	
Barium [7440-39-3] ^	**52.9**		mg/kg dry	1	0.0281	0.320	0.639	EPA 6010C	06/27/13 11:01	ACV	
Beryllium [7440-41-7] ^	**0.435**		mg/kg dry	1	0.00780	0.0320	0.0639	EPA 6010C	06/27/13 11:01	ACV	
Cadmium [7440-43-9] ^	<0.0639	U	mg/kg dry	1	0.0230	0.0639	0.128	EPA 6010C	06/27/13 11:01	ACV	
Calcium [7440-70-2] ^	**998**		mg/kg dry	1	1.66	16.0	32.0	EPA 6010C	06/27/13 11:01	ACV	
Chromium [7440-47-3] ^	**22.8**		mg/kg dry	1	0.0460	0.320	0.639	EPA 6010C	06/27/13 11:01	ACV	
Cobalt [7440-48-4] ^	**3.21**		mg/kg dry	1	0.0447	0.320	0.639	EPA 6010C	06/27/13 11:01	ACV	
Copper [7440-50-8] ^	**6.47**		mg/kg dry	1	0.101	0.320	0.639	EPA 6010C	06/27/13 11:01	ACV	
Iron [7439-89-6] ^	**8490**		mg/kg dry	1	2.17	3.20	6.39	EPA 6010C	06/27/13 11:01	ACV	
Lead [7439-92-1] ^	**7.40**		mg/kg dry	1	0.141	1.28	2.56	EPA 6010C	06/27/13 11:01	ACV	
Magnesium [7439-95-4] ^	**2000**		mg/kg dry	1	1.09	16.0	32.0	EPA 6010C	06/27/13 11:01	ACV	
Manganese [7439-96-5] ^	**119**		mg/kg dry	1	0.0141	0.639	1.28	EPA 6010C	06/27/13 11:01	ACV	
Nickel [7440-02-0] ^	**10.1**		mg/kg dry	1	0.0435	0.320	0.639	EPA 6010C	06/27/13 11:01	ACV	
Potassium [7440-09-7] ^	**643**		mg/kg dry	1	6.26	32.0	63.9	EPA 6010C	06/27/13 11:01	ACV	
Selenium [7782-49-2] ^	<1.28	U	mg/kg dry	1	0.409	1.28	2.56	EPA 6010C	06/27/13 11:01	ACV	
Silver [7440-22-4] ^	<0.320	U	mg/kg dry	1	0.118	0.320	0.639	EPA 6010C	06/27/13 11:01	ACV	
Sodium [7440-23-5] ^	**52.1**		mg/kg dry	1	3.83	16.0	32.0	EPA 6010C	06/27/13 11:01	ACV	
Thallium [7440-28-0] ^	<1.28	U	mg/kg dry	1	0.294	1.28	2.56	EPA 6010C	06/27/13 11:01	ACV	
Vanadium [7440-62-2] ^	**24.5**		mg/kg dry	1	0.0499	0.639	1.28	EPA 6010C	06/27/13 11:01	ACV	
Zinc [7440-66-6] ^	**21.8**		mg/kg dry	1	0.268	0.639	1.28	EPA 6010C	06/27/13 11:01	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB06-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-13
Sampled: 06/19/13 12:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,2,3-Trichlorobenzene [87-61-6] ^	**4.1**	Q	ug/L	1	0.86	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/L	1	0.86	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,2,4-Trichlorobenzene [120-82-1] ^	**11**	Q	ug/L	1	0.70	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/L	1	0.70	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	06/28/13 23:18	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	07/01/13 18:19	kwb	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/L	1	0.77	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/L	1	0.77	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	06/28/13 23:18	kat	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	07/01/13 18:19	kwb	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	06/28/13 23:18	kat	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	07/01/13 18:19	kwb	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	06/28/13 23:18	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	07/01/13 18:19	kwb	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	06/28/13 23:18	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	07/01/13 18:19	kwb	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	06/28/13 23:18	kat	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	07/01/13 18:19	kwb	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	06/28/13 23:18	kat	

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Description: TR-2ND-SB06-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-13
Sampled: 06/19/13 12:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	07/01/13 18:19	kwb	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 23:18	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 18:19	kwb	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	06/28/13 23:18	kat	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	07/01/13 18:19	kwb	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	

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Description: TR-2ND-SB06-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-13
Sampled: 06/19/13 12:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 23:18	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 18:19	kwb	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 23:18	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 18:19	kwb	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*37*	*1*	*50.0*	*74 %*	*75-120*	*3F28011*	*EPA 8260B*	*06/28/13 23:18*	*kat*	*QS-03*
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*75-120*	*3F30006*	*EPA 8260B*	*07/01/13 18:19*	*kwb*	
Dibromofluoromethane	*32*	*1*	*50.0*	*64 %*	*85-115*	*3F28011*	*EPA 8260B*	*06/28/13 23:18*	*kat*	*QS-03*
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*85-115*	*3F30006*	*EPA 8260B*	*07/01/13 18:19*	*kwb*	
Toluene-d8	*37*	*1*	*50.0*	*75 %*	*85-120*	*3F28011*	*EPA 8260B*	*06/28/13 23:18*	*kat*	*QS-03*
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*85-120*	*3F30006*	*EPA 8260B*	*07/01/13 18:19*	*kwb*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<9.0	U	ug/L	1	7.0	9.0	10	EPA 8270D	07/07/13 11:26	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<6.0	U	ug/L	1	4.7	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<6.0	U	ug/L	1	3.6	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<6.0	U	ug/L	1	3.7	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,4-Dichlorophenol [120-83-2] ^	<6.0	U	ug/L	1	3.3	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,4-Dimethylphenol [105-67-9] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,4-Dinitrophenol [51-28-5] ^	<6.0	U	ug/L	1	5.2	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<6.0	U	ug/L	1	2.8	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
2-Chloronaphthalene [91-58-7] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
2-Chlorophenol [95-57-8] ^	<6.0	U	ug/L	1	2.8	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<6.0	U	ug/L	1	6.0	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
2-Methylphenol [95-48-7] ^	<3.0	U	ug/L	1	2.3	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
2-Nitroaniline [88-74-4] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
2-Nitrophenol [88-75-5] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<6.0	U	ug/L	1	4.5	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
3-Nitroaniline [99-09-2] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<6.0	U	ug/L	1	3.3	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<6.0	U	ug/L	1	2.6	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
4-Chloroaniline [106-47-8] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
4-Nitroaniline [100-01-6] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
4-Nitrophenol [100-02-7] ^	<3.0	U	ug/L	1	2.3	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Acetophenone [98-86-2] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Atrazine [1912-24-9] ^	<3.0	UQ	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:26	jfi	QL-02
Benzaldehyde [100-52-7] ^	<6.0	U	ug/L	1	5.4	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 11:26	jfi	

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Description: TR-2ND-SB06-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-13
Sampled: 06/19/13 12:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Bis(2-chloroethyl)ether [111-44-4] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<6.0	U	ug/L	1	3.5	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Butylbenzylphthalate [85-68-7] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Caprolactam [105-60-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Carbazole [86-74-8] ^	<3.0	U	ug/L	1	2.5	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Dibenzofuran [132-64-9] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Diethylphthalate [84-66-2] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Dimethylphthalate [131-11-3] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Di-n-butylphthalate [84-74-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Di-n-octylphthalate [117-84-0] ^	<6.0	U	ug/L	1	3.4	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Hexachlorobenzene [118-74-1] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Hexachlorobutadiene [87-68-3] ^	<6.0	U	ug/L	1	3.6	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<6.0	U	ug/L	1	3.8	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Hexachloroethane [67-72-1] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Isophorone [78-59-1] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:26	jfi	
Nitrobenzene [98-95-3] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<6.0	U	ug/L	1	3.4	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<6.0	U	ug/L	1	5.4	6.0	10	EPA 8270D	07/07/13 11:26	jfi	
Pentachlorophenol [87-86-5] ^	<9.0	U	ug/L	1	6.3	9.0	10	EPA 8270D	07/07/13 11:26	jfi	
Phenol [108-95-2] ^	<3.0	U	ug/L	1	1.4	3.0	10	EPA 8270D	07/07/13 11:26	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*28*	*1*	*50.0*	*56 %*	*40-125*	*3F24010*	*EPA 8270D*	*07/07/13 11:26*	*jfi*	
2-Fluorobiphenyl	*30*	*1*	*50.0*	*60 %*	*50-110*	*3F24010*	*EPA 8270D*	*07/07/13 11:26*	*jfi*	
2-Fluorophenol	*17*	*1*	*50.0*	*34 %*	*20-110*	*3F24010*	*EPA 8270D*	*07/07/13 11:26*	*jfi*	
Nitrobenzene-d5	*30*	*1*	*50.0*	*59 %*	*40-110*	*3F24010*	*EPA 8270D*	*07/07/13 11:26*	*jfi*	
Phenol-d5	*14*	*1*	*50.0*	*29 %*	*10-115*	*3F24010*	*EPA 8270D*	*07/07/13 11:26*	*jfi*	
Terphenyl-d14	*52*	*1*	*50.0*	*104 %*	*50-135*	*3F24010*	*EPA 8270D*	*07/07/13 11:26*	*jfi*	

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Description: TR-2ND-SB06-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-13
Sampled: 06/19/13 12:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/L	1				EPA 8270D	07/07/13 11:26	jfi	

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Description: TR-2ND-SB06-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-13
Sampled: 06/19/13 12:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<0.080	U	ug/L	1	0.042	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Acenaphthene [83-32-9] ^	<0.080	U	ug/L	1	0.045	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Acenaphthylene [208-96-8] ^	<0.080	U	ug/L	1	0.046	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Anthracene [120-12-7] ^	<0.080	U	ug/L	1	0.059	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Benzo(a)anthracene [56-55-3] ^	<0.080	U	ug/L	1	0.062	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Benzo(a)pyrene [50-32-8] ^	<0.080	UQ	ug/L	1	0.077	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	QL-02
Benzo(b)fluoranthene [205-99-2] ^	<0.080	U	ug/L	1	0.072	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<0.080	U	ug/L	1	0.072	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<0.080	U	ug/L	1	0.078	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Chrysene [218-01-9] ^	<0.080	U	ug/L	1	0.062	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<0.080	U	ug/L	1	0.069	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Fluoranthene [206-44-0] ^	<0.080	U	ug/L	1	0.075	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Fluorene [86-73-7] ^	<0.080	U	ug/L	1	0.047	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<0.080	U	ug/L	1	0.070	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Naphthalene [91-20-3] ^	<0.080	U	ug/L	1	0.045	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Phenanthrene [85-01-8] ^	<0.080	U	ug/L	1	0.063	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	
Pyrene [129-00-0] ^	<0.080	U	ug/L	1	0.075	0.080	0.10	EPA 8270D	07/05/13 14:29	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*3.2*	*1*	*4.00*	*79 %*	*70-130*	*3F21019*	*EPA 8270D*	*07/05/13 14:29*	*jfi*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB04-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-14
Sampled: 06/19/13 12:50
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 85.7

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,1-Dichloroethane [75-34-3] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,1-Dichloroethene [75-35-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,2-Dibromoethane [106-93-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,2-Dichloroethane [107-06-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,2-Dichloropropane [78-87-5] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
1,4-Dioxane [123-91-1] ^	<58	U	ug/kg dry	1	6.4	58	120	EPA 8260B	06/27/13 20:17	kat	
2-Butanone [78-93-3] ^	<2.9	U	ug/kg dry	1	2.1	2.9	5.8	EPA 8260B	06/27/13 20:17	kat	
2-Hexanone [591-78-6] ^	<2.9	U	ug/kg dry	1	1.1	2.9	5.8	EPA 8260B	06/27/13 20:17	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.9	U	ug/kg dry	1	1.6	2.9	5.8	EPA 8260B	06/27/13 20:17	kat	
Acetone [67-64-1] ^	<15	U	ug/kg dry	1	2.0	15	29	EPA 8260B	06/27/13 20:17	kat	
Benzene [71-43-2] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Bromochloromethane [74-97-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Bromodichloromethane [75-27-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Bromoform [75-25-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Bromomethane [74-83-9] ^	<5.8	U	ug/kg dry	1	1.1	5.8	12	EPA 8260B	06/27/13 20:17	kat	
Carbon disulfide [75-15-0] ^	<5.8	U	ug/kg dry	1	2.5	5.8	12	EPA 8260B	06/27/13 20:17	kat	
Carbon Tetrachloride [56-23-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Chlorobenzene [108-90-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Chloroethane [75-00-3] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Chloroform [67-66-3] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Chloromethane [74-87-3] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Cyclohexane [110-82-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Dibromochloromethane [124-48-1] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Ethylbenzene [100-41-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Freon 113 [76-13-1] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Isopropylbenzene [98-82-8] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.3	U	ug/kg dry	1	1.2	2.3	4.7	EPA 8260B	06/27/13 20:17	kat	
Methyl acetate [79-20-9] ^	<5.8	U	ug/kg dry	1	1.9	5.8	12	EPA 8260B	06/27/13 20:17	kat	
Methyl cyclohexane [108-87-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Methylene Chloride [75-09-2] ^	<5.8	U	ug/kg dry	1	0.8	5.8	12	EPA 8260B	06/27/13 20:17	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
o-Xylene [95-47-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Styrene [100-42-5] ^	**0.9**	J	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Tetrachloroethene [127-18-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Toluene [108-88-3] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	

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Description:	TR-2ND-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-14	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 12:50	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	85.7

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Trichlorofluoromethane [75-69-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Vinyl chloride [75-01-4] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 20:17	kat	
Xylenes (Total) [1330-20-7] ^	<2.3	U	ug/kg dry	1	1.2	2.3	4.7	EPA 8260B	06/27/13 20:17	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*55.1*	*99 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 20:17*	*kat*	
Dibromofluoromethane	*58*	*1*	*55.1*	*105 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 20:17*	*kat*	
Toluene-d8	*57*	*1*	*55.1*	*104 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 20:17*	*kat*	

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Description:	TR-2ND-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-14	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 12:50	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	85.7

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 20:17	kat	

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Description: TR-2ND-SB04-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-14
Sampled: 06/19/13 12:50
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 85.7

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<230	UD	ug/kg dry	2	220	230	770	EPA 8270D	07/07/13 18:31	jfi	
1,1'-Biphenyl [92-52-4] ^	<580	UD	ug/kg dry	5	550	580	1900	EPA 8270D	07/08/13 13:10	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<230	UDQ	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	QL-02, R-01
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<580	UDQ	ug/kg dry	5	400	580	1900	EPA 8270D	07/08/13 13:10	jfi	QL-02, R-01
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<470	UD	ug/kg dry	2	170	470	770	EPA 8270D	07/07/13 18:31	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<1200	UD	ug/kg dry	5	430	1200	1900	EPA 8270D	07/08/13 13:10	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<230	UD	ug/kg dry	2	140	230	770	EPA 8270D	07/07/13 18:31	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<580	UD	ug/kg dry	5	340	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<230	UD	ug/kg dry	2	140	230	770	EPA 8270D	07/07/13 18:31	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<580	UD	ug/kg dry	5	350	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2,4-Dichlorophenol [120-83-2] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
2,4-Dichlorophenol [120-83-2] ^	<580	UD	ug/kg dry	5	410	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2,4-Dimethylphenol [105-67-9] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
2,4-Dimethylphenol [105-67-9] ^	<580	UD	ug/kg dry	5	430	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2,4-Dinitrophenol [51-28-5] ^	<700	UD	ug/kg dry	2	280	700	770	EPA 8270D	07/07/13 18:31	jfi	
2,4-Dinitrophenol [51-28-5] ^	<1800	UD	ug/kg dry	5	700	1800	1900	EPA 8270D	07/08/13 13:10	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<580	UD	ug/kg dry	5	420	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<230	UD	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<580	UD	ug/kg dry	5	400	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2-Chloronaphthalene [91-58-7] ^	<230	UD	ug/kg dry	2	150	230	770	EPA 8270D	07/07/13 18:31	jfi	
2-Chloronaphthalene [91-58-7] ^	<580	UD	ug/kg dry	5	380	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2-Chlorophenol [95-57-8] ^	<230	UD	ug/kg dry	2	190	230	770	EPA 8270D	07/07/13 18:31	jfi	
2-Chlorophenol [95-57-8] ^	<580	UD	ug/kg dry	5	480	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<700	UD	ug/kg dry	2	300	700	770	EPA 8270D	07/07/13 18:31	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<1800	UD	ug/kg dry	5	760	1800	1900	EPA 8270D	07/08/13 13:10	jfi	
2-Methylphenol [95-48-7] ^	<230	UD	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	
2-Methylphenol [95-48-7] ^	<580	UD	ug/kg dry	5	410	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2-Nitroaniline [88-74-4] ^	<230	UD	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	
2-Nitroaniline [88-74-4] ^	<580	UD	ug/kg dry	5	390	580	1900	EPA 8270D	07/08/13 13:10	jfi	
2-Nitrophenol [88-75-5] ^	<230	UD	ug/kg dry	2	180	230	770	EPA 8270D	07/07/13 18:31	jfi	
2-Nitrophenol [88-75-5] ^	<580	UD	ug/kg dry	5	460	580	1900	EPA 8270D	07/08/13 13:10	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<470	UD	ug/kg dry	2	370	470	770	EPA 8270D	07/07/13 18:31	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<1200	UD	ug/kg dry	5	930	1200	1900	EPA 8270D	07/08/13 13:10	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<230	UDQ	ug/kg dry	2	210	230	770	EPA 8270D	07/07/13 18:31	jfi	R-01
3,3'-Dichlorobenzidine [91-94-1] ^	<580	UD	ug/kg dry	5	530	580	1900	EPA 8270D	07/08/13 13:10	jfi	
3-Nitroaniline [99-09-2] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
3-Nitroaniline [99-09-2] ^	<580	UD	ug/kg dry	5	430	580	1900	EPA 8270D	07/08/13 13:10	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<580	UD	ug/kg dry	5	430	580	1900	EPA 8270D	07/08/13 13:10	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<230	UD	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<580	UD	ug/kg dry	5	390	580	1900	EPA 8270D	07/08/13 13:10	jfi	
4-Chloroaniline [106-47-8] ^	<230	UD	ug/kg dry	2	210	230	770	EPA 8270D	07/07/13 18:31	jfi	
4-Chloroaniline [106-47-8] ^	<580	UD	ug/kg dry	5	540	580	1900	EPA 8270D	07/08/13 13:10	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<230	UD	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<580	UD	ug/kg dry	5	390	580	1900	EPA 8270D	07/08/13 13:10	jfi	
4-Nitroaniline [100-01-6] ^	<230	UD	ug/kg dry	2	190	230	770	EPA 8270D	07/07/13 18:31	jfi	
4-Nitroaniline [100-01-6] ^	<580	UD	ug/kg dry	5	480	580	1900	EPA 8270D	07/08/13 13:10	jfi	

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Description: TR-2ND-SB04-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-14
Sampled: 06/19/13 12:50
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 85.7

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4-Nitrophenol [100-02-7] ^	<230	UD	ug/kg dry	2	190	230	770	EPA 8270D	07/07/13 18:31	jfi	
4-Nitrophenol [100-02-7] ^	<580	UD	ug/kg dry	5	480	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Acetophenone [98-86-2] ^	<230	UD	ug/kg dry	2	190	230	770	EPA 8270D	07/07/13 18:31	jfi	
Acetophenone [98-86-2] ^	<580	UD	ug/kg dry	5	480	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Atrazine [1912-24-9] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
Atrazine [1912-24-9] ^	<580	UD	ug/kg dry	5	430	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Benzaldehyde [100-52-7] ^	<230	UD	ug/kg dry	2	230	230	770	EPA 8270D	07/07/13 18:31	jfi	
Benzaldehyde [100-52-7] ^	<580	UD	ug/kg dry	5	580	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<230	UD	ug/kg dry	2	150	230	770	EPA 8270D	07/07/13 18:31	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<580	UD	ug/kg dry	5	370	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<230	UD	ug/kg dry	2	210	230	770	EPA 8270D	07/07/13 18:31	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<580	UD	ug/kg dry	5	540	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<230	UD	ug/kg dry	2	190	230	770	EPA 8270D	07/07/13 18:31	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<580	UD	ug/kg dry	5	480	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**250**	JDQ	ug/kg dry	2	200	230	770	EPA 8270D	07/07/13 18:31	jfi	R-01
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<580	UDQ	ug/kg dry	5	500	580	1900	EPA 8270D	07/08/13 13:10	jfi	QV-01, R-01
Butylbenzylphthalate [85-68-7] ^	<230	UD	ug/kg dry	2	220	230	770	EPA 8270D	07/07/13 18:31	jfi	
Butylbenzylphthalate [85-68-7] ^	<580	UD	ug/kg dry	5	540	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Caprolactam [105-60-2] ^	<470	UD	ug/kg dry	2	230	470	770	EPA 8270D	07/07/13 18:31	jfi	
Caprolactam [105-60-2] ^	<1200	UD	ug/kg dry	5	580	1200	1900	EPA 8270D	07/08/13 13:10	jfi	
Carbazole [86-74-8] ^	<230	UD	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	
Carbazole [86-74-8] ^	<580	UD	ug/kg dry	5	400	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Dibenzofuran [132-64-9] ^	<230	UD	ug/kg dry	2	150	230	770	EPA 8270D	07/07/13 18:31	jfi	
Dibenzofuran [132-64-9] ^	<580	UD	ug/kg dry	5	390	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Diethylphthalate [84-66-2] ^	<230	UD	ug/kg dry	2	180	230	770	EPA 8270D	07/07/13 18:31	jfi	
Diethylphthalate [84-66-2] ^	<580	UD	ug/kg dry	5	440	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Dimethylphthalate [131-11-3] ^	<230	UD	ug/kg dry	2	140	230	770	EPA 8270D	07/07/13 18:31	jfi	
Dimethylphthalate [131-11-3] ^	<580	UD	ug/kg dry	5	360	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Di-n-butylphthalate [84-74-2] ^	<230	UD	ug/kg dry	2	180	230	770	EPA 8270D	07/07/13 18:31	jfi	
Di-n-butylphthalate [84-74-2] ^	<580	UD	ug/kg dry	5	460	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Di-n-octylphthalate [117-84-0] ^	<230	UDQ	ug/kg dry	2	160	230	770	EPA 8270D	07/07/13 18:31	jfi	R-01
Di-n-octylphthalate [117-84-0] ^	<580	UD	ug/kg dry	5	390	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Hexachlorobenzene [118-74-1] ^	<230	UD	ug/kg dry	2	190	230	770	EPA 8270D	07/07/13 18:31	jfi	
Hexachlorobenzene [118-74-1] ^	<580	UD	ug/kg dry	5	470	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Hexachlorobutadiene [87-68-3] ^	<230	UD	ug/kg dry	2	190	230	770	EPA 8270D	07/07/13 18:31	jfi	
Hexachlorobutadiene [87-68-3] ^	<580	UD	ug/kg dry	5	470	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<230	UD	ug/kg dry	2	220	230	770	EPA 8270D	07/07/13 18:31	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<580	UD	ug/kg dry	5	540	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Hexachloroethane [67-72-1] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
Hexachloroethane [67-72-1] ^	<580	UD	ug/kg dry	5	430	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Isophorone [78-59-1] ^	<230	UD	ug/kg dry	2	170	230	770	EPA 8270D	07/07/13 18:31	jfi	
Isophorone [78-59-1] ^	<580	UD	ug/kg dry	5	420	580	1900	EPA 8270D	07/08/13 13:10	jfi	
Nitrobenzene [98-95-3] ^	<230	UD	ug/kg dry	2	180	230	770	EPA 8270D	07/07/13 18:31	jfi	
Nitrobenzene [98-95-3] ^	<580	UD	ug/kg dry	5	460	580	1900	EPA 8270D	07/08/13 13:10	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<230	UD	ug/kg dry	2	210	230	770	EPA 8270D	07/07/13 18:31	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<580	UD	ug/kg dry	5	530	580	1900	EPA 8270D	07/08/13 13:10	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<470	UD	ug/kg dry	2	330	470	770	EPA 8270D	07/07/13 18:31	jfi	

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Description:	TR-2ND-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-14	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 12:50	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	85.7

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<1200	UD	ug/kg dry	5	820	1200	1900	EPA 8270D	07/08/13 13:10	jfi	
Pentachlorophenol [87-86-5] ^	<700	UD	ug/kg dry	2	330	700	770	EPA 8270D	07/07/13 18:31	jfi	
Pentachlorophenol [87-86-5] ^	<1800	UD	ug/kg dry	5	820	1800	1900	EPA 8270D	07/08/13 13:10	jfi	
Phenol [108-95-2] ^	<230	UD	ug/kg dry	2	180	230	770	EPA 8270D	07/07/13 18:31	jfi	
Phenol [108-95-2] ^	<580	UD	ug/kg dry	5	440	580	1900	EPA 8270D	07/08/13 13:10	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*1600*	*2*	*1950*	*83 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 18:31*	*jfi*	
2,4,6-Tribromophenol	*1200*	*5*	*1950*	*62 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/08/13 13:10*	*jfi*	
2-Fluorobiphenyl	*1200*	*2*	*1950*	*61 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 18:31*	*jfi*	
2-Fluorobiphenyl	*930*	*5*	*1950*	*48 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/08/13 13:10*	*jfi*	
2-Fluorophenol	*1200*	*2*	*1950*	*61 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 18:31*	*jfi*	
2-Fluorophenol	*880*	*5*	*1950*	*45 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/08/13 13:10*	*jfi*	
Nitrobenzene-d5	*1200*	*2*	*1950*	*61 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 18:31*	*jfi*	
Nitrobenzene-d5	*870*	*5*	*1950*	*45 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/08/13 13:10*	*jfi*	
Phenol-d5	*1400*	*2*	*1950*	*71 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 18:31*	*jfi*	
Phenol-d5	*1100*	*5*	*1950*	*55 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/08/13 13:10*	*jfi*	
Terphenyl-d14	*1500*	*2*	*1950*	*75 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 18:31*	*jfi*	
Terphenyl-d14	*1400*	*5*	*1950*	*73 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/08/13 13:10*	*jfi*	

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Caryophyllene [000087-44-5]	**670**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
Drometrizole [002440-22-4]	**500**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
Pyrene [129-00-0]	**530**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
Tentatively Identified Compounds [NA]	0	UD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
unknown (01) [NA]	**1900**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
unknown (02) [NA]	**1300**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
unknown (03) [NA]	**950**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
unknown (04) [NA]	**1400**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
unknown (05) [NA]	**410**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	
unknown (06) [NA]	**490**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:31	jfi	

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Description: TR-2ND-SB04-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-14
Sampled: 06/19/13 12:50
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 85.7

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<29	U	ug/kg dry	1	21	29	41	EPA 8270D	07/03/13 16:37	jfi	
Acenaphthene [83-32-9] ^	<29	U	ug/kg dry	1	18	29	41	EPA 8270D	07/03/13 16:37	jfi	
Acenaphthylene [208-96-8] ^	<29	U	ug/kg dry	1	21	29	41	EPA 8270D	07/03/13 16:37	jfi	
Anthracene [120-12-7] ^	<29	U	ug/kg dry	1	16	29	41	EPA 8270D	07/03/13 16:37	jfi	
Benzo(a)anthracene [56-55-3] ^	**19**	J	ug/kg dry	1	16	29	41	EPA 8270D	07/03/13 16:37	jfi	
Benzo(a)pyrene [50-32-8] ^	<29	U	ug/kg dry	1	18	29	41	EPA 8270D	07/03/13 16:37	jfi	
Benzo(b)fluoranthene [205-99-2] ^	**40**	J	ug/kg dry	1	20	29	41	EPA 8270D	07/03/13 16:37	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<29	U	ug/kg dry	1	18	29	41	EPA 8270D	07/03/13 16:37	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<29	U	ug/kg dry	1	22	29	41	EPA 8270D	07/03/13 16:37	jfi	
Chrysene [218-01-9] ^	**23**	J	ug/kg dry	1	14	29	41	EPA 8270D	07/03/13 16:37	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<29	U	ug/kg dry	1	19	29	41	EPA 8270D	07/03/13 16:37	jfi	
Fluoranthene [206-44-0] ^	**23**	J	ug/kg dry	1	20	29	41	EPA 8270D	07/03/13 16:37	jfi	
Fluorene [86-73-7] ^	<29	U	ug/kg dry	1	20	29	41	EPA 8270D	07/03/13 16:37	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<29	U	ug/kg dry	1	18	29	41	EPA 8270D	07/03/13 16:37	jfi	
Naphthalene [91-20-3] ^	<29	U	ug/kg dry	1	21	29	41	EPA 8270D	07/03/13 16:37	jfi	
Phenanthrene [85-01-8] ^	<29	U	ug/kg dry	1	18	29	41	EPA 8270D	07/03/13 16:37	jfi	
Pyrene [129-00-0] ^	**30**	J	ug/kg dry	1	19	29	41	EPA 8270D	07/03/13 16:37	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1900*	*1*	*2330*	*83 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 16:37*	*jfi*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
4,4'-DDD [72-54-8] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
4,4'-DDE [72-55-9] ^	<2.3	UD	ug/kg dry	2	1.2	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
4,4'-DDE [72-55-9] ^	<2.3	UD	ug/kg dry	2	1.2	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
4,4'-DDT [50-29-3] ^	<2.3	UD	ug/kg dry	2	1.5	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
4,4'-DDT [50-29-3] ^	<2.3	UD	ug/kg dry	2	1.5	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Aldrin [309-00-2] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Aldrin [309-00-2] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
alpha-BHC [319-84-6] ^	<2.3	UD	ug/kg dry	2	1.3	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
alpha-BHC [319-84-6] ^	<2.3	UD	ug/kg dry	2	1.3	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
beta-BHC [319-85-7] ^	<2.3	UD	ug/kg dry	2	2.3	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
beta-BHC [319-85-7] ^	<2.3	UD	ug/kg dry	2	2.3	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Chlordane-alpha [5103-71-9] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Chlordane-alpha [5103-71-9] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Chlordane-gamma [5566-34-7] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Chlordane-gamma [5566-34-7] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
delta-BHC [319-86-8] ^	<2.3	UD	ug/kg dry	2	1.2	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
delta-BHC [319-86-8] ^	<2.3	UD	ug/kg dry	2	1.2	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Dieldrin [60-57-1] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Dieldrin [60-57-1] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Endosulfan I [959-98-8] ^	<2.3	UD	ug/kg dry	2	0.91	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Endosulfan I [959-98-8] ^	<2.3	UD	ug/kg dry	2	0.91	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Endosulfan II [33213-65-9] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Endosulfan II [33213-65-9] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Endosulfan sulfate [1031-07-8] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01

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Description:	TR-2ND-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-14	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 12:50	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	85.7

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Endosulfan sulfate [1031-07-8] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Endrin [72-20-8] ^	<2.3	UD	ug/kg dry	2	1.7	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Endrin [72-20-8] ^	<2.3	UD	ug/kg dry	2	1.7	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Endrin aldehyde [7421-93-4] ^	<2.3	UD	ug/kg dry	2	1.9	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Endrin aldehyde [7421-93-4] ^	<2.3	UD	ug/kg dry	2	1.9	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Endrin ketone [53494-70-5] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Endrin ketone [53494-70-5] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
gamma-BHC [58-89-9] ^	<2.3	UD	ug/kg dry	2	1.2	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
gamma-BHC [58-89-9] ^	<2.3	UD	ug/kg dry	2	1.2	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Heptachlor [76-44-8] ^	<2.3	UD	ug/kg dry	2	1.4	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Heptachlor [76-44-8] ^	<2.3	UD	ug/kg dry	2	1.4	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Heptachlor epoxide [1024-57-3] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Heptachlor epoxide [1024-57-3] ^	<2.3	UD	ug/kg dry	2	1.1	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Methoxychlor [72-43-5] ^	<2.3	UD	ug/kg dry	2	2.0	2.3	4.0	EPA 8081B	06/29/13 13:49	RC	R-01
Methoxychlor [72-43-5] ^	<2.3	UD	ug/kg dry	2	2.0	2.3	4.0	EPA 8081B	06/26/13 19:08	RC	R-01
Toxaphene [8001-35-2]	<47	UD	ug/kg dry	2	23	47	77	EPA 8081B	06/26/13 19:08	RC	R-01
Toxaphene [8001-35-2]	<47	UD	ug/kg dry	2	23	47	77	EPA 8081B	06/29/13 13:49	RC	R-01

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*28*	*2*	*38.6*	*72 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 13:49*	*RC*	*R-01*
2,4,5,6-TCMX	*21*	*2*	*38.8*	*54 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 19:08*	*RC*	*QS-03, R-01*
Decachlorobiphenyl	*26*	*2*	*38.6*	*66 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 13:49*	*RC*	*R-01*
Decachlorobiphenyl	*27*	*2*	*38.8*	*71 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 19:08*	*RC*	*R-01*

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Description:	TR-2ND-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-14	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 12:50	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	85.7

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<23	U	ug/kg dry	1	16	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<23	U	ug/kg dry	1	16	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1221 [11104-28-2] ^	<23	U	ug/kg dry	1	16	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1232 [11141-16-5] ^	<23	U	ug/kg dry	1	16	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1242 [53469-21-9] ^	<23	U	ug/kg dry	1	12	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1248 [12672-29-6] ^	<23	U	ug/kg dry	1	7.4	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1254 [11097-69-1] ^	<23	U	ug/kg dry	1	18	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1260 [11096-82-5] ^	**400**		ug/kg dry	1	13	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1262 [37324-23-5] ^	<23	U	ug/kg dry	1	16	23	47	EPA 8082A	06/27/13 16:19	RC	
PCB-1268 [11100-14-4] ^	<23	U	ug/kg dry	1	12	23	47	EPA 8082A	06/27/13 16:19	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*25*	*1*	*38.8*	*64 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 16:19*	*RC*	
Decachlorobiphenyl	*32*	*1*	*38.8*	*82 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 16:19*	*RC*	

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Description:	TR-2ND-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-14	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 12:50	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	85.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.407**		mg/kg dry	1	0.00390	0.00570	0.0100	EPA 7471B	06/21/13 08:46	IR	

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Description:	TR-2ND-SB04-0.5-01-0613	**Lab Sample ID:**	A303499-14	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 12:50	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	85.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**20800**		mg/kg dry	1	3.22	13.4	26.8	EPA 6010C	06/27/13 11:02	ACV	
Antimony [7440-36-0] ^	<1.34	U	mg/kg dry	1	0.657	1.34	2.68	EPA 6010C	06/27/13 11:02	ACV	
Arsenic [7440-38-2] ^	**3.49**		mg/kg dry	1	0.376	1.34	2.68	EPA 6010C	06/27/13 11:02	ACV	
Barium [7440-39-3] ^	**114**		mg/kg dry	1	0.0295	0.335	0.671	EPA 6010C	06/27/13 11:02	ACV	
Beryllium [7440-41-7] ^	**0.490**		mg/kg dry	1	0.00818	0.0335	0.0671	EPA 6010C	06/27/13 11:02	ACV	
Cadmium [7440-43-9] ^	**1.05**		mg/kg dry	1	0.0241	0.0671	0.134	EPA 6010C	06/27/13 11:02	ACV	
Calcium [7440-70-2] ^	**3530**		mg/kg dry	1	1.74	16.8	33.5	EPA 6010C	06/27/13 11:02	ACV	
Chromium [7440-47-3] ^	**26.8**		mg/kg dry	1	0.0483	0.335	0.671	EPA 6010C	06/27/13 11:02	ACV	
Cobalt [7440-48-4] ^	**4.82**		mg/kg dry	1	0.0470	0.335	0.671	EPA 6010C	06/27/13 11:02	ACV	
Copper [7440-50-8] ^	**77.2**		mg/kg dry	1	0.106	0.335	0.671	EPA 6010C	06/27/13 11:02	ACV	
Iron [7439-89-6] ^	**11300**		mg/kg dry	1	2.28	3.35	6.71	EPA 6010C	06/27/13 11:02	ACV	
Lead [7439-92-1] ^	**48.3**		mg/kg dry	1	0.148	1.34	2.68	EPA 6010C	06/27/13 11:02	ACV	
Magnesium [7439-95-4] ^	**1870**		mg/kg dry	1	1.15	16.8	33.5	EPA 6010C	06/27/13 11:02	ACV	
Manganese [7439-96-5] ^	**167**		mg/kg dry	1	0.0148	0.671	1.34	EPA 6010C	06/27/13 11:02	ACV	
Nickel [7440-02-0] ^	**12.9**		mg/kg dry	1	0.0456	0.335	0.671	EPA 6010C	06/27/13 11:02	ACV	
Potassium [7440-09-7] ^	**826**		mg/kg dry	1	6.57	33.5	67.1	EPA 6010C	06/27/13 11:02	ACV	
Selenium [7782-49-2] ^	<1.34	U	mg/kg dry	1	0.429	1.34	2.68	EPA 6010C	06/27/13 11:02	ACV	
Silver [7440-22-4] ^	**0.143**	J	mg/kg dry	1	0.123	0.335	0.671	EPA 6010C	06/27/13 11:02	ACV	
Sodium [7440-23-5] ^	**86.2**		mg/kg dry	1	4.02	16.8	33.5	EPA 6010C	06/27/13 11:02	ACV	
Thallium [7440-28-0] ^	**0.398**	J	mg/kg dry	1	0.309	1.34	2.68	EPA 6010C	06/27/13 11:02	ACV	
Vanadium [7440-62-2] ^	**20.6**		mg/kg dry	1	0.0523	0.671	1.34	EPA 6010C	06/27/13 11:02	ACV	
Zinc [7440-66-6] ^	**106**		mg/kg dry	1	0.282	0.671	1.34	EPA 6010C	06/27/13 11:02	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB04-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-15
Sampled: 06/19/13 13:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 79.3

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/kg dry	1	0.9	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/kg dry	1	0.8	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
1,4-Dioxane [123-91-1] ^	<49	U	ug/kg dry	1	5.4	49	98	EPA 8260B	06/27/13 20:53	kat	
2-Butanone [78-93-3] ^	<2.5	U	ug/kg dry	1	1.8	2.5	4.9	EPA 8260B	06/27/13 20:53	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/kg dry	1	0.9	2.5	4.9	EPA 8260B	06/27/13 20:53	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/kg dry	1	1.4	2.5	4.9	EPA 8260B	06/27/13 20:53	kat	
Acetone [67-64-1] ^	<12	U	ug/kg dry	1	1.7	12	25	EPA 8260B	06/27/13 20:53	kat	
Benzene [71-43-2] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Bromomethane [74-83-9] ^	<4.9	U	ug/kg dry	1	0.9	4.9	9.8	EPA 8260B	06/27/13 20:53	kat	
Carbon disulfide [75-15-0] ^	<4.9	U	ug/kg dry	1	2.1	4.9	9.8	EPA 8260B	06/27/13 20:53	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/kg dry	1	1.0	2.0	3.9	EPA 8260B	06/27/13 20:53	kat	
Methyl acetate [79-20-9] ^	<4.9	U	ug/kg dry	1	1.6	4.9	9.8	EPA 8260B	06/27/13 20:53	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Methylene Chloride [75-09-2] ^	<4.9	U	ug/kg dry	1	0.7	4.9	9.8	EPA 8260B	06/27/13 20:53	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Styrene [100-42-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Toluene [108-88-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/kg dry	1	0.7	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 20:53	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/kg dry	1	1.0	2.0	3.9	EPA 8260B	06/27/13 20:53	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*49.2*	*92 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 20:53*	*kat*	
Dibromofluoromethane	*49*	*1*	*49.2*	*99 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 20:53*	*kat*	
Toluene-d8	*48*	*1*	*49.2*	*98 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 20:53*	*kat*	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 20:53	kat	

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Description: TR-2ND-SB04-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-15
Sampled: 06/19/13 13:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 79.3

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 15:13	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<130	UQ	ug/kg dry	1	87	130	420	EPA 8270D	07/07/13 15:13	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<250	U	ug/kg dry	1	93	250	420	EPA 8270D	07/07/13 15:13	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<130	U	ug/kg dry	1	73	130	420	EPA 8270D	07/07/13 15:13	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<130	U	ug/kg dry	1	76	130	420	EPA 8270D	07/07/13 15:13	jfi	
2,4-Dichlorophenol [120-83-2] ^	<130	U	ug/kg dry	1	89	130	420	EPA 8270D	07/07/13 15:13	jfi	
2,4-Dimethylphenol [105-67-9] ^	<130	U	ug/kg dry	1	93	130	420	EPA 8270D	07/07/13 15:13	jfi	
2,4-Dinitrophenol [51-28-5] ^	<380	U	ug/kg dry	1	150	380	420	EPA 8270D	07/07/13 15:13	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<130	U	ug/kg dry	1	91	130	420	EPA 8270D	07/07/13 15:13	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<130	U	ug/kg dry	1	87	130	420	EPA 8270D	07/07/13 15:13	jfi	
2-Chloronaphthalene [91-58-7] ^	<130	U	ug/kg dry	1	82	130	420	EPA 8270D	07/07/13 15:13	jfi	
2-Chlorophenol [95-57-8] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<380	U	ug/kg dry	1	160	380	420	EPA 8270D	07/07/13 15:13	jfi	
2-Methylphenol [95-48-7] ^	<130	U	ug/kg dry	1	88	130	420	EPA 8270D	07/07/13 15:13	jfi	
2-Nitroaniline [88-74-4] ^	<130	U	ug/kg dry	1	84	130	420	EPA 8270D	07/07/13 15:13	jfi	
2-Nitrophenol [88-75-5] ^	<130	U	ug/kg dry	1	98	130	420	EPA 8270D	07/07/13 15:13	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<250	U	ug/kg dry	1	200	250	420	EPA 8270D	07/07/13 15:13	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<130	U	ug/kg dry	1	110	130	420	EPA 8270D	07/07/13 15:13	jfi	
3-Nitroaniline [99-09-2] ^	<130	U	ug/kg dry	1	93	130	420	EPA 8270D	07/07/13 15:13	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<130	U	ug/kg dry	1	92	130	420	EPA 8270D	07/07/13 15:13	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<130	U	ug/kg dry	1	84	130	420	EPA 8270D	07/07/13 15:13	jfi	
4-Chloroaniline [106-47-8] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 15:13	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<130	U	ug/kg dry	1	84	130	420	EPA 8270D	07/07/13 15:13	jfi	
4-Nitroaniline [100-01-6] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
4-Nitrophenol [100-02-7] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
Acetophenone [98-86-2] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
Atrazine [1912-24-9] ^	<130	U	ug/kg dry	1	93	130	420	EPA 8270D	07/07/13 15:13	jfi	
Benzaldehyde [100-52-7] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 15:13	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<130	U	ug/kg dry	1	81	130	420	EPA 8270D	07/07/13 15:13	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 15:13	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**270**	J	ug/kg dry	1	110	130	420	EPA 8270D	07/07/13 15:13	jfi	
Butylbenzylphthalate [85-68-7] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 15:13	jfi	
Caprolactam [105-60-2] ^	<250	U	ug/kg dry	1	130	250	420	EPA 8270D	07/07/13 15:13	jfi	
Carbazole [86-74-8] ^	<130	U	ug/kg dry	1	86	130	420	EPA 8270D	07/07/13 15:13	jfi	
Dibenzofuran [132-64-9] ^	<130	U	ug/kg dry	1	83	130	420	EPA 8270D	07/07/13 15:13	jfi	
Diethylphthalate [84-66-2] ^	<130	U	ug/kg dry	1	95	130	420	EPA 8270D	07/07/13 15:13	jfi	
Dimethylphthalate [131-11-3] ^	<130	U	ug/kg dry	1	78	130	420	EPA 8270D	07/07/13 15:13	jfi	
Di-n-butylphthalate [84-74-2] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
Di-n-octylphthalate [117-84-0] ^	<130	U	ug/kg dry	1	84	130	420	EPA 8270D	07/07/13 15:13	jfi	
Hexachlorobenzene [118-74-1] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
Hexachlorobutadiene [87-68-3] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<130	U	ug/kg dry	1	120	130	420	EPA 8270D	07/07/13 15:13	jfi	
Hexachloroethane [67-72-1] ^	<130	U	ug/kg dry	1	93	130	420	EPA 8270D	07/07/13 15:13	jfi	
Isophorone [78-59-1] ^	<130	U	ug/kg dry	1	91	130	420	EPA 8270D	07/07/13 15:13	jfi	
Nitrobenzene [98-95-3] ^	<130	U	ug/kg dry	1	100	130	420	EPA 8270D	07/07/13 15:13	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<130	U	ug/kg dry	1	110	130	420	EPA 8270D	07/07/13 15:13	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<250	U	ug/kg dry	1	180	250	420	EPA 8270D	07/07/13 15:13	jfi	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Pentachlorophenol [87-86-5] ^	<380	U	ug/kg dry	1	180	380	420	EPA 8270D	07/07/13 15:13	jfi	
Phenol [108-95-2] ^	<130	U	ug/kg dry	1	96	130	420	EPA 8270D	07/07/13 15:13	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2200*	*1*	*2100*	*107 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 15:13*	*jfi*	
2-Fluorobiphenyl	*1500*	*1*	*2100*	*73 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 15:13*	*jfi*	
2-Fluorophenol	*1800*	*1*	*2100*	*88 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 15:13*	*jfi*	
Nitrobenzene-d5	*1700*	*1*	*2100*	*81 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 15:13*	*jfi*	
Phenol-d5	*2000*	*1*	*2100*	*94 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 15:13*	*jfi*	
Terphenyl-d14	*2600*	*1*	*2100*	*124 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 15:13*	*jfi*	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Caryophyllene [000087-44-5]	**210**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
Cinnamyl cinnamate [000122-69-0]	**850**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**410**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
Tetradecanamide [000638-58-4]	**230**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
unknown (01) [NA]	**260**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
unknown (02) [NA]	**820**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
unknown (03) [NA]	**240**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
unknown (04) [NA]	**220**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	
unknown (05) [NA]	**270**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:13	jfi	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<32	U	ug/kg dry	1	23	32	44	EPA 8270D	07/03/13 16:58	jfi	
Acenaphthene [83-32-9] ^	<32	U	ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 16:58	jfi	
Acenaphthylene [208-96-8] ^	<32	U	ug/kg dry	1	23	32	44	EPA 8270D	07/03/13 16:58	jfi	
Anthracene [120-12-7] ^	<32	U	ug/kg dry	1	18	32	44	EPA 8270D	07/03/13 16:58	jfi	
Benzo(a)anthracene [56-55-3] ^	**78**		ug/kg dry	1	18	32	44	EPA 8270D	07/03/13 16:58	jfi	
Benzo(a)pyrene [50-32-8] ^	**73**		ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 16:58	jfi	
Benzo(b)fluoranthene [205-99-2] ^	**63**		ug/kg dry	1	21	32	44	EPA 8270D	07/03/13 16:58	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	**66**		ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 16:58	jfi	
Benzo(k)fluoranthene [207-08-9] ^	**110**		ug/kg dry	1	24	32	44	EPA 8270D	07/03/13 16:58	jfi	
Chrysene [218-01-9] ^	**86**		ug/kg dry	1	15	32	44	EPA 8270D	07/03/13 16:58	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	**58**		ug/kg dry	1	20	32	44	EPA 8270D	07/03/13 16:58	jfi	
Fluoranthene [206-44-0] ^	**78**		ug/kg dry	1	21	32	44	EPA 8270D	07/03/13 16:58	jfi	
Fluorene [86-73-7] ^	**23**	J	ug/kg dry	1	21	32	44	EPA 8270D	07/03/13 16:58	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	**53**		ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 16:58	jfi	
Naphthalene [91-20-3] ^	<32	U	ug/kg dry	1	23	32	44	EPA 8270D	07/03/13 16:58	jfi	
Phenanthrene [85-01-8] ^	**73**		ug/kg dry	1	19	32	44	EPA 8270D	07/03/13 16:58	jfi	
Pyrene [129-00-0] ^	**86**		ug/kg dry	1	20	32	44	EPA 8270D	07/03/13 16:58	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1900*	*1*	*2520*	*77 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 16:58*	*jfi*	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.60	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.60	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.83	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.83	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.71	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.71	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.49	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.49	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.60	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.60	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.62	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.93	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.93	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.0	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.0	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.57	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.78	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.78	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.60	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.60	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.1	EPA 8081B	06/26/13 19:20	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.1	EPA 8081B	06/29/13 14:01	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	13	25	42	EPA 8081B	06/26/13 19:20	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	13	25	42	EPA 8081B	06/29/13 14:01	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*19*	*1*	*41.5*	*45 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 19:20*	*RC*	*QS-03*
2,4,5,6-TCMX	*27*	*1*	*42.0*	*64 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 14:01*	*RC*	*QS-03*
Decachlorobiphenyl	*22*	*1*	*41.5*	*53 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 19:20*	*RC*	*QS-03*
Decachlorobiphenyl	*26*	*1*	*42.0*	*61 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 14:01*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<25	U	ug/kg dry	1	18	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<25	U	ug/kg dry	1	18	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1221 [11104-28-2] ^	<25	U	ug/kg dry	1	18	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1232 [11141-16-5] ^	<25	U	ug/kg dry	1	18	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1242 [53469-21-9] ^	<25	U	ug/kg dry	1	13	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1248 [12672-29-6] ^	<25	U	ug/kg dry	1	7.9	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1254 [11097-69-1] ^	<25	U	ug/kg dry	1	19	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1260 [11096-82-5] ^	<25	U	ug/kg dry	1	14	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1262 [37324-23-5] ^	<25	U	ug/kg dry	1	18	25	50	EPA 8082A	06/27/13 16:31	RC	
PCB-1268 [11100-14-4] ^	<25	U	ug/kg dry	1	13	25	50	EPA 8082A	06/27/13 16:31	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*21*	*1*	*41.5*	*50 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 16:31*	*RC*	
Decachlorobiphenyl	*30*	*1*	*41.5*	*73 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 16:31*	*RC*	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0926**		mg/kg dry	1	0.00434	0.00634	0.0111	EPA 7471B	06/21/13 08:52	IR	

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Description:	TR-2ND-SB04-04-06-0613	**Lab Sample ID:**	A303499-15	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	79.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**12500**		mg/kg dry	1	3.93	16.4	32.7	EPA 6010C	06/27/13 11:03	ACV	
Antimony [7440-36-0] ^	<1.64	U	mg/kg dry	1	0.802	1.64	3.27	EPA 6010C	06/27/13 11:03	ACV	
Arsenic [7440-38-2] ^	**2.58**	J	mg/kg dry	1	0.458	1.64	3.27	EPA 6010C	06/27/13 11:03	ACV	
Barium [7440-39-3] ^	**49.5**		mg/kg dry	1	0.0360	0.409	0.818	EPA 6010C	06/27/13 11:03	ACV	
Beryllium [7440-41-7] ^	**0.319**		mg/kg dry	1	0.00998	0.0409	0.0818	EPA 6010C	06/27/13 11:03	ACV	
Cadmium [7440-43-9] ^	**0.264**		mg/kg dry	1	0.0295	0.0818	0.164	EPA 6010C	06/27/13 11:03	ACV	
Calcium [7440-70-2] ^	**1190**		mg/kg dry	1	2.13	20.5	40.9	EPA 6010C	06/27/13 11:03	ACV	
Chromium [7440-47-3] ^	**20.7**		mg/kg dry	1	0.0589	0.409	0.818	EPA 6010C	06/27/13 11:03	ACV	
Cobalt [7440-48-4] ^	**2.96**		mg/kg dry	1	0.0573	0.409	0.818	EPA 6010C	06/27/13 11:03	ACV	
Copper [7440-50-8] ^	**20.6**		mg/kg dry	1	0.129	0.409	0.818	EPA 6010C	06/27/13 11:03	ACV	
Iron [7439-89-6] ^	**8440**		mg/kg dry	1	2.78	4.09	8.18	EPA 6010C	06/27/13 11:03	ACV	
Lead [7439-92-1] ^	**22.1**		mg/kg dry	1	0.180	1.64	3.27	EPA 6010C	06/27/13 11:03	ACV	
Magnesium [7439-95-4] ^	**2140**		mg/kg dry	1	1.40	20.5	40.9	EPA 6010C	06/27/13 11:03	ACV	
Manganese [7439-96-5] ^	**77.3**		mg/kg dry	1	0.0180	0.818	1.64	EPA 6010C	06/27/13 11:03	ACV	
Nickel [7440-02-0] ^	**9.30**		mg/kg dry	1	0.0557	0.409	0.818	EPA 6010C	06/27/13 11:03	ACV	
Potassium [7440-09-7] ^	**711**		mg/kg dry	1	8.02	40.9	81.8	EPA 6010C	06/27/13 11:03	ACV	
Selenium [7782-49-2] ^	<1.64	U	mg/kg dry	1	0.524	1.64	3.27	EPA 6010C	06/27/13 11:03	ACV	
Silver [7440-22-4] ^	**0.328**	J	mg/kg dry	1	0.151	0.409	0.818	EPA 6010C	06/27/13 11:03	ACV	
Sodium [7440-23-5] ^	**56.8**		mg/kg dry	1	4.91	20.5	40.9	EPA 6010C	06/27/13 11:03	ACV	
Thallium [7440-28-0] ^	**0.493**	J	mg/kg dry	1	0.376	1.64	3.27	EPA 6010C	06/27/13 11:03	ACV	
Vanadium [7440-62-2] ^	**18.1**		mg/kg dry	1	0.0638	0.818	1.64	EPA 6010C	06/27/13 11:03	ACV	
Zinc [7440-66-6] ^	**117**		mg/kg dry	1	0.344	0.818	1.64	EPA 6010C	06/27/13 11:03	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB04-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-16
Sampled: 06/19/13 13:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/L	1	0.54	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/L	1	0.62	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,2,3-Trichlorobenzene [87-61-6] ^	**2.2**	Q	ug/L	1	0.86	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/L	1	0.86	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,2,4-Trichlorobenzene [120-82-1] ^	**6.4**	Q	ug/L	1	0.70	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/L	1	0.70	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	06/28/13 23:50	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<5.0	U	ug/L	1	0.96	5.0	10	EPA 8260B	07/01/13 18:49	kwb	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/L	1	0.78	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/L	1	0.63	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/L	1	0.77	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/L	1	0.77	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	06/28/13 23:50	kat	
1,4-Dioxane [123-91-1] ^	<50	U	ug/L	1	33	50	100	EPA 8260B	07/01/13 18:49	kwb	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	06/28/13 23:50	kat	
2-Butanone [78-93-3] ^	<12	U	ug/L	1	4.5	12	25	EPA 8260B	07/01/13 18:49	kwb	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	06/28/13 23:50	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/L	1	1.4	2.5	5.0	EPA 8260B	07/01/13 18:49	kwb	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	06/28/13 23:50	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/L	1	0.79	2.5	5.0	EPA 8260B	07/01/13 18:49	kwb	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	06/28/13 23:50	kat	
Acetone [67-64-1] ^	<12	U	ug/L	1	1.8	12	25	EPA 8260B	07/01/13 18:49	kwb	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Benzene [71-43-2] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/L	1	0.52	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/L	1	0.75	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Bromomethane [74-83-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	06/28/13 23:50	kat	

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Description: TR-2ND-SB04-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-16
Sampled: 06/19/13 13:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Carbon disulfide [75-15-0] ^	<5.0	U	ug/L	1	2.6	5.0	10	EPA 8260B	07/01/13 18:49	kwb	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/L	1	0.98	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/L	1	0.80	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/L	1	0.82	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/L	1	0.59	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/L	1	0.93	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/L	1	0.44	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/L	1	0.74	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/L	1	0.69	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/L	1	0.67	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 23:50	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 18:49	kwb	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Methyl acetate [79-20-9] ^	<1.0	U	ug/L	1	0.95	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/L	1	0.64	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	06/28/13 23:50	kat	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/L	1	0.71	5.0	10	EPA 8260B	07/01/13 18:49	kwb	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/L	1	0.60	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/L	1	0.53	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Styrene [100-42-5] ^	<1.0	U	ug/L	1	0.61	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/L	1	0.76	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Toluene [108-88-3] ^	<1.0	U	ug/L	1	0.72	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/L	1	0.73	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	

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Description: TR-2ND-SB04-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-16
Sampled: 06/19/13 13:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Trichloroethene [79-01-6] ^	<1.0	U	ug/L	1	0.89	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/L	1	0.94	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	06/28/13 23:50	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/L	1	0.71	1.0	2.0	EPA 8260B	07/01/13 18:49	kwb	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	06/28/13 23:50	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/L	1	1.3	2.0	4.0	EPA 8260B	07/01/13 18:49	kwb	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*37*	*1*	*50.0*	*74 %*	*75-120*	*3F28011*	*EPA 8260B*	*06/28/13 23:50*	*kat*	*QS-03*
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*75-120*	*3F30006*	*EPA 8260B*	*07/01/13 18:49*	*kwb*	
Dibromofluoromethane	*30*	*1*	*50.0*	*60 %*	*85-115*	*3F28011*	*EPA 8260B*	*06/28/13 23:50*	*kat*	*QS-03*
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*85-115*	*3F30006*	*EPA 8260B*	*07/01/13 18:49*	*kwb*	
Toluene-d8	*37*	*1*	*50.0*	*73 %*	*85-120*	*3F28011*	*EPA 8260B*	*06/28/13 23:50*	*kat*	*QS-03*
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*85-120*	*3F30006*	*EPA 8260B*	*07/01/13 18:49*	*kwb*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<9.0	U	ug/L	1	7.0	9.0	10	EPA 8270D	07/07/13 11:54	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<6.0	U	ug/L	1	4.7	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<6.0	U	ug/L	1	3.6	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<6.0	U	ug/L	1	3.7	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,4-Dichlorophenol [120-83-2] ^	<6.0	U	ug/L	1	3.3	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,4-Dimethylphenol [105-67-9] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,4-Dinitrophenol [51-28-5] ^	<6.0	U	ug/L	1	5.2	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<6.0	U	ug/L	1	2.8	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
2-Chloronaphthalene [91-58-7] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
2-Chlorophenol [95-57-8] ^	<6.0	U	ug/L	1	2.8	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<6.0	U	ug/L	1	6.0	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
2-Methylphenol [95-48-7] ^	<3.0	U	ug/L	1	2.3	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
2-Nitroaniline [88-74-4] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
2-Nitrophenol [88-75-5] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<6.0	U	ug/L	1	4.5	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
3-Nitroaniline [99-09-2] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<6.0	U	ug/L	1	3.3	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<6.0	U	ug/L	1	2.6	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
4-Chloroaniline [106-47-8] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
4-Nitroaniline [100-01-6] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
4-Nitrophenol [100-02-7] ^	<3.0	U	ug/L	1	2.3	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Acetophenone [98-86-2] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Atrazine [1912-24-9] ^	<3.0	UQ	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:54	jfi	QL-02
Benzaldehyde [100-52-7] ^	<6.0	U	ug/L	1	5.4	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<6.0	U	ug/L	1	2.7	6.0	10	EPA 8270D	07/07/13 11:54	jfi	

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Description: TR-2ND-SB04-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-16
Sampled: 06/19/13 13:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Bis(2-chloroethyl)ether [111-44-4] ^	<6.0	U	ug/L	1	3.2	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**22**		ug/L	1	3.5	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Butylbenzylphthalate [85-68-7] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Caprolactam [105-60-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Carbazole [86-74-8] ^	<3.0	U	ug/L	1	2.5	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Dibenzofuran [132-64-9] ^	<3.0	U	ug/L	1	2.8	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Diethylphthalate [84-66-2] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Dimethylphthalate [131-11-3] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Di-n-butylphthalate [84-74-2] ^	<3.0	U	ug/L	1	2.7	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Di-n-octylphthalate [117-84-0] ^	<6.0	U	ug/L	1	3.4	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Hexachlorobenzene [118-74-1] ^	<3.0	U	ug/L	1	3.0	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Hexachlorobutadiene [87-68-3] ^	<6.0	U	ug/L	1	3.6	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<6.0	U	ug/L	1	3.8	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Hexachloroethane [67-72-1] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Isophorone [78-59-1] ^	<3.0	U	ug/L	1	2.9	3.0	10	EPA 8270D	07/07/13 11:54	jfi	
Nitrobenzene [98-95-3] ^	<6.0	U	ug/L	1	3.1	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<6.0	U	ug/L	1	3.4	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<6.0	U	ug/L	1	5.4	6.0	10	EPA 8270D	07/07/13 11:54	jfi	
Pentachlorophenol [87-86-5] ^	<9.0	U	ug/L	1	6.3	9.0	10	EPA 8270D	07/07/13 11:54	jfi	
Phenol [108-95-2] ^	<3.0	U	ug/L	1	1.4	3.0	10	EPA 8270D	07/07/13 11:54	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*31*	*1*	*50.0*	*61 %*	*40-125*	*3F24010*	*EPA 8270D*	*07/07/13 11:54*	*jfi*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*75 %*	*50-110*	*3F24010*	*EPA 8270D*	*07/07/13 11:54*	*jfi*	
2-Fluorophenol	*19*	*1*	*50.0*	*38 %*	*20-110*	*3F24010*	*EPA 8270D*	*07/07/13 11:54*	*jfi*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*72 %*	*40-110*	*3F24010*	*EPA 8270D*	*07/07/13 11:54*	*jfi*	
Phenol-d5	*17*	*1*	*50.0*	*34 %*	*10-115*	*3F24010*	*EPA 8270D*	*07/07/13 11:54*	*jfi*	
Terphenyl-d14	*48*	*1*	*50.0*	*95 %*	*50-135*	*3F24010*	*EPA 8270D*	*07/07/13 11:54*	*jfi*	

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Description: TR-2ND-SB04-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-16
Sampled: 06/19/13 13:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/L	1				EPA 8270D	07/07/13 11:54	jfi	

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Description: TR-2ND-SB04-GW-0613
Matrix: Ground Water
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-16
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Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<0.080	U	ug/L	1	0.042	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Acenaphthene [83-32-9] ^	<0.080	U	ug/L	1	0.045	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Acenaphthylene [208-96-8] ^	<0.080	U	ug/L	1	0.046	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Anthracene [120-12-7] ^	<0.080	U	ug/L	1	0.059	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Benzo(a)anthracene [56-55-3] ^	<0.080	U	ug/L	1	0.062	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Benzo(a)pyrene [50-32-8] ^	<0.080	UQ	ug/L	1	0.077	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	QL-02
Benzo(b)fluoranthene [205-99-2] ^	<0.080	U	ug/L	1	0.072	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<0.080	U	ug/L	1	0.072	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<0.080	U	ug/L	1	0.078	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Chrysene [218-01-9] ^	<0.080	U	ug/L	1	0.062	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<0.080	U	ug/L	1	0.069	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Fluoranthene [206-44-0] ^	<0.080	U	ug/L	1	0.075	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Fluorene [86-73-7] ^	<0.080	U	ug/L	1	0.047	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<0.080	U	ug/L	1	0.070	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Naphthalene [91-20-3] ^	<0.080	U	ug/L	1	0.045	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Phenanthrene [85-01-8] ^	<0.080	U	ug/L	1	0.063	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	
Pyrene [129-00-0] ^	<0.080	U	ug/L	1	0.075	0.080	0.10	EPA 8270D	07/05/13 14:50	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*3.2*	*1*	*4.00*	*80 %*	*70-130*	*3F21019*	*EPA 8270D*	*07/05/13 14:50*	*jfi*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB05-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-17
Sampled: 06/19/13 13:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 75.5

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,1-Dichloroethane [75-34-3] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,1-Dichloroethene [75-35-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,2-Dibromoethane [106-93-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,2-Dichloroethane [107-06-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,2-Dichloropropane [78-87-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
1,4-Dioxane [123-91-1] ^	<60	U	ug/kg dry	1	6.6	60	120	EPA 8260B	06/27/13 21:28	kat	
2-Butanone [78-93-3] ^	<3.0	U	ug/kg dry	1	2.2	3.0	6.0	EPA 8260B	06/27/13 21:28	kat	
2-Hexanone [591-78-6] ^	<3.0	U	ug/kg dry	1	1.1	3.0	6.0	EPA 8260B	06/27/13 21:28	kat	
4-Methyl-2-pentanone [108-10-1] ^	<3.0	U	ug/kg dry	1	1.7	3.0	6.0	EPA 8260B	06/27/13 21:28	kat	
Acetone [67-64-1] ^	<15	U	ug/kg dry	1	2.0	15	30	EPA 8260B	06/27/13 21:28	kat	
Benzene [71-43-2] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Bromochloromethane [74-97-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Bromodichloromethane [75-27-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Bromoform [75-25-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Bromomethane [74-83-9] ^	<6.0	U	ug/kg dry	1	1.1	6.0	12	EPA 8260B	06/27/13 21:28	kat	
Carbon disulfide [75-15-0] ^	<6.0	U	ug/kg dry	1	2.5	6.0	12	EPA 8260B	06/27/13 21:28	kat	
Carbon Tetrachloride [56-23-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Chlorobenzene [108-90-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Chloroethane [75-00-3] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Chloroform [67-66-3] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Chloromethane [74-87-3] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Cyclohexane [110-82-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Dibromochloromethane [124-48-1] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Ethylbenzene [100-41-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Freon 113 [76-13-1] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Isopropylbenzene [98-82-8] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.4	U	ug/kg dry	1	1.2	2.4	4.8	EPA 8260B	06/27/13 21:28	kat	
Methyl acetate [79-20-9] ^	<6.0	U	ug/kg dry	1	1.9	6.0	12	EPA 8260B	06/27/13 21:28	kat	
Methyl cyclohexane [108-87-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Methylene Chloride [75-09-2] ^	<6.0	U	ug/kg dry	1	0.8	6.0	12	EPA 8260B	06/27/13 21:28	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
o-Xylene [95-47-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Styrene [100-42-5] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Tetrachloroethene [127-18-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Toluene [108-88-3] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	

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Description:	TR-2ND-SB05-0.5-01-0613	**Lab Sample ID:**	A303499-17	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	75.5

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Trichlorofluoromethane [75-69-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Vinyl chloride [75-01-4] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.4	EPA 8260B	06/27/13 21:28	kat	
Xylenes (Total) [1330-20-7] ^	<2.4	U	ug/kg dry	1	1.2	2.4	4.8	EPA 8260B	06/27/13 21:28	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*60.0*	*87 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 21:28*	*kat*	
Dibromofluoromethane	*59*	*1*	*60.0*	*98 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 21:28*	*kat*	
Toluene-d8	*58*	*1*	*60.0*	*96 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 21:28*	*kat*	

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Description:	TR-2ND-SB05-0.5-01-0613	**Lab Sample ID:**	A303499-17	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	75.5

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 21:28	kat	

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Description: TR-2ND-SB05-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-17
Sampled: 06/19/13 13:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 75.5

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<260	UD	ug/kg dry	2	250	260	870	EPA 8270D	07/07/13 18:58	jfi	
1,1'-Biphenyl [92-52-4] ^	<660	UD	ug/kg dry	5	630	660	2200	EPA 8270D	07/08/13 13:39	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<260	UDQ	ug/kg dry	2	180	260	870	EPA 8270D	07/07/13 18:58	jfi	QL-02, R-01
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<660	UDQ	ug/kg dry	5	460	660	2200	EPA 8270D	07/08/13 13:39	jfi	QL-02, R-01
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<530	UD	ug/kg dry	2	200	530	870	EPA 8270D	07/07/13 18:58	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<1300	UD	ug/kg dry	5	490	1300	2200	EPA 8270D	07/08/13 13:39	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<260	UD	ug/kg dry	2	150	260	870	EPA 8270D	07/07/13 18:58	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<660	UD	ug/kg dry	5	380	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<260	UD	ug/kg dry	2	160	260	870	EPA 8270D	07/07/13 18:58	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<660	UD	ug/kg dry	5	400	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2,4-Dichlorophenol [120-83-2] ^	<260	UD	ug/kg dry	2	190	260	870	EPA 8270D	07/07/13 18:58	jfi	
2,4-Dichlorophenol [120-83-2] ^	<660	UD	ug/kg dry	5	470	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2,4-Dimethylphenol [105-67-9] ^	<260	UD	ug/kg dry	2	200	260	870	EPA 8270D	07/07/13 18:58	jfi	
2,4-Dimethylphenol [105-67-9] ^	<660	UD	ug/kg dry	5	490	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2,4-Dinitrophenol [51-28-5] ^	<790	UD	ug/kg dry	2	320	790	870	EPA 8270D	07/07/13 18:58	jfi	
2,4-Dinitrophenol [51-28-5] ^	<2000	UD	ug/kg dry	5	790	2000	2200	EPA 8270D	07/08/13 13:39	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<260	UD	ug/kg dry	2	190	260	870	EPA 8270D	07/07/13 18:58	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<660	UD	ug/kg dry	5	480	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<260	UD	ug/kg dry	2	180	260	870	EPA 8270D	07/07/13 18:58	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<660	UD	ug/kg dry	5	460	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2-Chloronaphthalene [91-58-7] ^	<260	UD	ug/kg dry	2	170	260	870	EPA 8270D	07/07/13 18:58	jfi	
2-Chloronaphthalene [91-58-7] ^	<660	UD	ug/kg dry	5	430	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2-Chlorophenol [95-57-8] ^	<260	UD	ug/kg dry	2	220	260	870	EPA 8270D	07/07/13 18:58	jfi	
2-Chlorophenol [95-57-8] ^	<660	UD	ug/kg dry	5	540	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<790	UD	ug/kg dry	2	340	790	870	EPA 8270D	07/07/13 18:58	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<2000	UD	ug/kg dry	5	860	2000	2200	EPA 8270D	07/08/13 13:39	jfi	
2-Methylphenol [95-48-7] ^	<260	UD	ug/kg dry	2	190	260	870	EPA 8270D	07/07/13 18:58	jfi	
2-Methylphenol [95-48-7] ^	<660	UD	ug/kg dry	5	460	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2-Nitroaniline [88-74-4] ^	<260	UD	ug/kg dry	2	180	260	870	EPA 8270D	07/07/13 18:58	jfi	
2-Nitroaniline [88-74-4] ^	<660	UD	ug/kg dry	5	440	660	2200	EPA 8270D	07/08/13 13:39	jfi	
2-Nitrophenol [88-75-5] ^	<260	UD	ug/kg dry	2	210	260	870	EPA 8270D	07/07/13 18:58	jfi	
2-Nitrophenol [88-75-5] ^	<660	UD	ug/kg dry	5	520	660	2200	EPA 8270D	07/08/13 13:39	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<530	UD	ug/kg dry	2	420	530	870	EPA 8270D	07/07/13 18:58	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<1300	UD	ug/kg dry	5	1100	1300	2200	EPA 8270D	07/08/13 13:39	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<260	UDQ	ug/kg dry	2	240	260	870	EPA 8270D	07/07/13 18:58	jfi	R-01
3,3'-Dichlorobenzidine [91-94-1] ^	<660	UD	ug/kg dry	5	600	660	2200	EPA 8270D	07/08/13 13:39	jfi	
3-Nitroaniline [99-09-2] ^	<260	UD	ug/kg dry	2	200	260	870	EPA 8270D	07/07/13 18:58	jfi	
3-Nitroaniline [99-09-2] ^	<660	UD	ug/kg dry	5	490	660	2200	EPA 8270D	07/08/13 13:39	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<260	UD	ug/kg dry	2	190	260	870	EPA 8270D	07/07/13 18:58	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<660	UD	ug/kg dry	5	480	660	2200	EPA 8270D	07/08/13 13:39	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<260	UD	ug/kg dry	2	180	260	870	EPA 8270D	07/07/13 18:58	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<660	UD	ug/kg dry	5	440	660	2200	EPA 8270D	07/08/13 13:39	jfi	
4-Chloroaniline [106-47-8] ^	<260	UD	ug/kg dry	2	240	260	870	EPA 8270D	07/07/13 18:58	jfi	
4-Chloroaniline [106-47-8] ^	<660	UD	ug/kg dry	5	610	660	2200	EPA 8270D	07/08/13 13:39	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<260	UD	ug/kg dry	2	180	260	870	EPA 8270D	07/07/13 18:58	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<660	UD	ug/kg dry	5	440	660	2200	EPA 8270D	07/08/13 13:39	jfi	
4-Nitroaniline [100-01-6] ^	<260	UD	ug/kg dry	2	220	260	870	EPA 8270D	07/07/13 18:58	jfi	
4-Nitroaniline [100-01-6] ^	<660	UD	ug/kg dry	5	540	660	2200	EPA 8270D	07/08/13 13:39	jfi	

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Description: TR-2ND-SB05-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-17
Sampled: 06/19/13 13:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 75.5

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4-Nitrophenol [100-02-7] ^	<260	UD	ug/kg dry	2	220	260	870	EPA 8270D	07/07/13 18:58	jfi	
4-Nitrophenol [100-02-7] ^	<660	UD	ug/kg dry	5	540	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Acetophenone [98-86-2] ^	<260	UD	ug/kg dry	2	220	260	870	EPA 8270D	07/07/13 18:58	jfi	
Acetophenone [98-86-2] ^	<660	UD	ug/kg dry	5	550	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Atrazine [1912-24-9] ^	<260	UD	ug/kg dry	2	200	260	870	EPA 8270D	07/07/13 18:58	jfi	
Atrazine [1912-24-9] ^	<660	UD	ug/kg dry	5	490	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Benzaldehyde [100-52-7] ^	<260	UD	ug/kg dry	2	260	260	870	EPA 8270D	07/07/13 18:58	jfi	
Benzaldehyde [100-52-7] ^	<660	UD	ug/kg dry	5	660	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<260	UD	ug/kg dry	2	170	260	870	EPA 8270D	07/07/13 18:58	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<660	UD	ug/kg dry	5	420	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<260	UD	ug/kg dry	2	240	260	870	EPA 8270D	07/07/13 18:58	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<660	UD	ug/kg dry	5	610	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<260	UD	ug/kg dry	2	220	260	870	EPA 8270D	07/07/13 18:58	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<660	UD	ug/kg dry	5	540	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<260	UDQ	ug/kg dry	2	230	260	870	EPA 8270D	07/07/13 18:58	jfi	R-01
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<660	UDQ	ug/kg dry	5	560	660	2200	EPA 8270D	07/08/13 13:39	jfi	QV-01, R-01
Butylbenzylphthalate [85-68-7] ^	<260	UD	ug/kg dry	2	250	260	870	EPA 8270D	07/07/13 18:58	jfi	
Butylbenzylphthalate [85-68-7] ^	<660	UD	ug/kg dry	5	620	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Caprolactam [105-60-2] ^	<530	UD	ug/kg dry	2	260	530	870	EPA 8270D	07/07/13 18:58	jfi	
Caprolactam [105-60-2] ^	<1300	UD	ug/kg dry	5	660	1300	2200	EPA 8270D	07/08/13 13:39	jfi	
Carbazole [86-74-8] ^	<260	UD	ug/kg dry	2	180	260	870	EPA 8270D	07/07/13 18:58	jfi	
Carbazole [86-74-8] ^	<660	UD	ug/kg dry	5	450	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Dibenzofuran [132-64-9] ^	<260	UD	ug/kg dry	2	170	260	870	EPA 8270D	07/07/13 18:58	jfi	
Dibenzofuran [132-64-9] ^	<660	UD	ug/kg dry	5	440	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Diethylphthalate [84-66-2] ^	<260	UD	ug/kg dry	2	200	260	870	EPA 8270D	07/07/13 18:58	jfi	
Diethylphthalate [84-66-2] ^	<660	UD	ug/kg dry	5	500	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Dimethylphthalate [131-11-3] ^	<260	UD	ug/kg dry	2	160	260	870	EPA 8270D	07/07/13 18:58	jfi	
Dimethylphthalate [131-11-3] ^	<660	UD	ug/kg dry	5	410	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Di-n-butylphthalate [84-74-2] ^	<260	UD	ug/kg dry	2	210	260	870	EPA 8270D	07/07/13 18:58	jfi	
Di-n-butylphthalate [84-74-2] ^	<660	UD	ug/kg dry	5	520	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Di-n-octylphthalate [117-84-0] ^	<260	UDQ	ug/kg dry	2	180	260	870	EPA 8270D	07/07/13 18:58	jfi	R-01
Di-n-octylphthalate [117-84-0] ^	<660	UD	ug/kg dry	5	440	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Hexachlorobenzene [118-74-1] ^	<260	UD	ug/kg dry	2	210	260	870	EPA 8270D	07/07/13 18:58	jfi	
Hexachlorobenzene [118-74-1] ^	<660	UD	ug/kg dry	5	540	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Hexachlorobutadiene [87-68-3] ^	<260	UD	ug/kg dry	2	210	260	870	EPA 8270D	07/07/13 18:58	jfi	
Hexachlorobutadiene [87-68-3] ^	<660	UD	ug/kg dry	5	530	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<260	UD	ug/kg dry	2	250	260	870	EPA 8270D	07/07/13 18:58	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<660	UD	ug/kg dry	5	620	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Hexachloroethane [67-72-1] ^	<260	UD	ug/kg dry	2	200	260	870	EPA 8270D	07/07/13 18:58	jfi	
Hexachloroethane [67-72-1] ^	<660	UD	ug/kg dry	5	490	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Isophorone [78-59-1] ^	<260	UD	ug/kg dry	2	190	260	870	EPA 8270D	07/07/13 18:58	jfi	
Isophorone [78-59-1] ^	<660	UD	ug/kg dry	5	480	660	2200	EPA 8270D	07/08/13 13:39	jfi	
Nitrobenzene [98-95-3] ^	<260	UD	ug/kg dry	2	210	260	870	EPA 8270D	07/07/13 18:58	jfi	
Nitrobenzene [98-95-3] ^	<660	UD	ug/kg dry	5	520	660	2200	EPA 8270D	07/08/13 13:39	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<260	UD	ug/kg dry	2	240	260	870	EPA 8270D	07/07/13 18:58	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<660	UD	ug/kg dry	5	600	660	2200	EPA 8270D	07/08/13 13:39	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<530	UD	ug/kg dry	2	370	530	870	EPA 8270D	07/07/13 18:58	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<1300	UD	ug/kg dry	5	930	1300	2200	EPA 8270D	07/08/13 13:39	jfi	

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Description:	TR-2ND-SB05-0.5-01-0613	**Lab Sample ID:**	A303499-17	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	75.5

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Pentachlorophenol [87-86-5] ^	<790	UD	ug/kg dry	2	370	790	870	EPA 8270D	07/07/13 18:58	jfi	
Pentachlorophenol [87-86-5] ^	<2000	UD	ug/kg dry	5	930	2000	2200	EPA 8270D	07/08/13 13:39	jfi	
Phenol [108-95-2] ^	<260	UD	ug/kg dry	2	200	260	870	EPA 8270D	07/07/13 18:58	jfi	
Phenol [108-95-2] ^	<660	UD	ug/kg dry	5	500	660	2200	EPA 8270D	07/08/13 13:39	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*1900*	*2*	*2210*	*85 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 18:58*	*jfi*	
2,4,6-Tribromophenol	*1400*	*5*	*2210*	*62 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/08/13 13:39*	*jfi*	
2-Fluorobiphenyl	*1100*	*2*	*2210*	*52 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 18:58*	*jfi*	
2-Fluorobiphenyl	*800*	*5*	*2210*	*36 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/08/13 13:39*	*jfi*	*QS-03, R-01*
2-Fluorophenol	*1600*	*2*	*2210*	*72 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 18:58*	*jfi*	
2-Fluorophenol	*1200*	*5*	*2210*	*54 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/08/13 13:39*	*jfi*	
Nitrobenzene-d5	*1400*	*2*	*2210*	*65 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 18:58*	*jfi*	
Nitrobenzene-d5	*1000*	*5*	*2210*	*46 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/08/13 13:39*	*jfi*	
Phenol-d5	*1900*	*2*	*2210*	*85 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 18:58*	*jfi*	
Phenol-d5	*1400*	*5*	*2210*	*62 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/08/13 13:39*	*jfi*	
Terphenyl-d14	*1500*	*2*	*2210*	*66 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 18:58*	*jfi*	
Terphenyl-d14	*1400*	*5*	*2210*	*61 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/08/13 13:39*	*jfi*	

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0	UD	ug/kg dry	2				EPA 8270D	07/07/13 18:58	jfi	
unknown (01) [NA]	**640**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:58	jfi	
unknown (02) [NA]	**530**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:58	jfi	
unknown (03) [NA]	**410**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:58	jfi	
unknown (04) [NA]	**1300**	JD	ug/kg dry	2				EPA 8270D	07/07/13 18:58	jfi	

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Description:	TR-2ND-SB05-0.5-01-0613	**Lab Sample ID:**	A303499-17	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	75.5

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<33	U	ug/kg dry	1	24	33	46	EPA 8270D	07/03/13 17:20	jfi	
Acenaphthene [83-32-9] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:20	jfi	
Acenaphthylene [208-96-8] ^	<33	U	ug/kg dry	1	24	33	46	EPA 8270D	07/03/13 17:20	jfi	
Anthracene [120-12-7] ^	<33	U	ug/kg dry	1	19	33	46	EPA 8270D	07/03/13 17:20	jfi	
Benzo(a)anthracene [56-55-3] ^	**66**		ug/kg dry	1	19	33	46	EPA 8270D	07/03/13 17:20	jfi	
Benzo(a)pyrene [50-32-8] ^	**64**		ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:20	jfi	
Benzo(b)fluoranthene [205-99-2] ^	**64**		ug/kg dry	1	23	33	46	EPA 8270D	07/03/13 17:20	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	**61**		ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:20	jfi	
Benzo(k)fluoranthene [207-08-9] ^	**93**		ug/kg dry	1	25	33	46	EPA 8270D	07/03/13 17:20	jfi	
Chrysene [218-01-9] ^	**74**		ug/kg dry	1	16	33	46	EPA 8270D	07/03/13 17:20	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	**45**	J	ug/kg dry	1	21	33	46	EPA 8270D	07/03/13 17:20	jfi	
Fluoranthene [206-44-0] ^	**72**		ug/kg dry	1	23	33	46	EPA 8270D	07/03/13 17:20	jfi	
Fluorene [86-73-7] ^	<33	U	ug/kg dry	1	23	33	46	EPA 8270D	07/03/13 17:20	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	**48**		ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:20	jfi	
Naphthalene [91-20-3] ^	<33	U	ug/kg dry	1	24	33	46	EPA 8270D	07/03/13 17:20	jfi	
Phenanthrene [85-01-8] ^	**58**		ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:20	jfi	
Pyrene [129-00-0] ^	**74**		ug/kg dry	1	21	33	46	EPA 8270D	07/03/13 17:20	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1600*	*1*	*2650*	*59 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 17:20*	*jfi*	

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Description:	TR-2ND-SB05-0.5-01-0613	**Lab Sample ID:**	A303499-17	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	75.5

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
4,4'-DDD [72-54-8] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
4,4'-DDE [72-55-9] ^	<2.6	UD	ug/kg dry	2	1.4	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
4,4'-DDE [72-55-9] ^	<2.6	UD	ug/kg dry	2	1.4	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
4,4'-DDT [50-29-3] ^	<2.6	UD	ug/kg dry	2	1.7	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
4,4'-DDT [50-29-3] ^	<2.6	UD	ug/kg dry	2	1.7	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Aldrin [309-00-2] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Aldrin [309-00-2] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
alpha-BHC [319-84-6] ^	<2.6	UD	ug/kg dry	2	1.5	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
alpha-BHC [319-84-6] ^	<2.6	UD	ug/kg dry	2	1.5	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
beta-BHC [319-85-7] ^	<2.6	UD	ug/kg dry	2	2.6	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
beta-BHC [319-85-7] ^	<2.6	UD	ug/kg dry	2	2.6	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Chlordane-alpha [5103-71-9] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Chlordane-alpha [5103-71-9] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Chlordane-gamma [5566-34-7] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Chlordane-gamma [5566-34-7] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
delta-BHC [319-86-8] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
delta-BHC [319-86-8] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Dieldrin [60-57-1] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Dieldrin [60-57-1] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Endosulfan I [959-98-8] ^	<2.6	UD	ug/kg dry	2	1.0	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Endosulfan I [959-98-8] ^	<2.6	UD	ug/kg dry	2	1.0	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Endosulfan II [33213-65-9] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Endosulfan II [33213-65-9] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Endosulfan sulfate [1031-07-8] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Endosulfan sulfate [1031-07-8] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Endrin [72-20-8] ^	<2.6	UD	ug/kg dry	2	2.0	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Endrin [72-20-8] ^	<2.6	UD	ug/kg dry	2	2.0	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Endrin aldehyde [7421-93-4] ^	<2.6	UD	ug/kg dry	2	2.2	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Endrin aldehyde [7421-93-4] ^	<2.6	UD	ug/kg dry	2	2.2	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Endrin ketone [53494-70-5] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Endrin ketone [53494-70-5] ^	<2.6	UD	ug/kg dry	2	1.2	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
gamma-BHC [58-89-9] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
gamma-BHC [58-89-9] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Heptachlor [76-44-8] ^	<2.6	UD	ug/kg dry	2	1.6	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Heptachlor [76-44-8] ^	<2.6	UD	ug/kg dry	2	1.6	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Heptachlor epoxide [1024-57-3] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Heptachlor epoxide [1024-57-3] ^	<2.6	UD	ug/kg dry	2	1.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Methoxychlor [72-43-5] ^	<2.6	UD	ug/kg dry	2	2.3	2.6	4.5	EPA 8081B	06/26/13 19:32	RC	R-01
Methoxychlor [72-43-5] ^	<2.6	UD	ug/kg dry	2	2.3	2.6	4.5	EPA 8081B	06/29/13 14:13	RC	R-01
Toxaphene [8001-35-2]	<53	UD	ug/kg dry	2	26	53	87	EPA 8081B	06/26/13 19:32	RC	R-01
Toxaphene [8001-35-2]	<53	UD	ug/kg dry	2	26	53	87	EPA 8081B	06/29/13 14:13	RC	R-01

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*15*	*2*	*43.9*	*34 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 19:32*	*RC*	*QS-03, R-01*
2,4,5,6-TCMX	*32*	*2*	*44.2*	*72 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 14:13*	*RC*	*R-01*
Decachlorobiphenyl	*13*	*2*	*43.9*	*31 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 19:32*	*RC*	*QS-03, R-01*
Decachlorobiphenyl	*24*	*2*	*44.2*	*55 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 14:13*	*RC*	*R-01*

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Description: TR-2ND-SB05-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-17
Sampled: 06/19/13 13:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 75.5

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1016 [12674-11-2] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1221 [11104-28-2] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1221 [11104-28-2] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1232 [11141-16-5] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1232 [11141-16-5] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1242 [53469-21-9] ^	<26	U	ug/kg dry	1	13	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1242 [53469-21-9] ^	<26	U	ug/kg dry	1	13	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1248 [12672-29-6] ^	<26	U	ug/kg dry	1	8.3	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1248 [12672-29-6] ^	<26	U	ug/kg dry	1	8.3	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1254 [11097-69-1] ^	**85**		ug/kg dry	1	20	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1254 [11097-69-1] ^	**27**	J	ug/kg dry	1	20	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1260 [11096-82-5] ^	**34**	J	ug/kg dry	1	15	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1260 [11096-82-5] ^	**130**		ug/kg dry	1	15	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1262 [37324-23-5] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1262 [37324-23-5] ^	<26	U	ug/kg dry	1	19	26	53	EPA 8082A	07/01/13 09:44	RC	
PCB-1268 [11100-14-4] ^	<26	U	ug/kg dry	1	13	26	53	EPA 8082A	06/27/13 16:43	RC	
PCB-1268 [11100-14-4] ^	<26	U	ug/kg dry	1	13	26	53	EPA 8082A	07/01/13 09:44	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*18*	*1*	*43.9*	*40 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 16:43*	*RC*	
2,4,5,6-TCMX	*34*	*1*	*44.2*	*77 %*	*20-137*	*3F28012*	*EPA 8082A*	*07/01/13 09:44*	*RC*	
Decachlorobiphenyl	*22*	*1*	*43.9*	*49 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 16:43*	*RC*	*QS-03*
Decachlorobiphenyl	*39*	*1*	*44.2*	*89 %*	*60-125*	*3F28012*	*EPA 8082A*	*07/01/13 09:44*	*RC*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**2.14**	E	mg/kg dry	1	0.00443	0.00647	0.0114	EPA 7471B	06/21/13 08:56	IR	E
Mercury [7439-97-6] ^	**2.29**	D	mg/kg dry	3	0.0133	0.0194	0.0341	EPA 7471B	06/21/13 09:03	IR	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**14500**	D	mg/kg dry	5	15.9	66.3	133	EPA 6010C	06/27/13 11:05	ACV	
Antimony [7440-36-0] ^	**8.95**	JD	mg/kg dry	5	3.25	6.63	13.3	EPA 6010C	06/27/13 11:05	ACV	
Arsenic [7440-38-2] ^	**9.45**	JD	mg/kg dry	5	1.86	6.63	13.3	EPA 6010C	06/27/13 11:05	ACV	
Barium [7440-39-3] ^	**251**	D	mg/kg dry	5	0.146	1.66	3.31	EPA 6010C	06/27/13 11:05	ACV	
Beryllium [7440-41-7] ^	**0.317**	JD	mg/kg dry	5	0.0404	0.166	0.331	EPA 6010C	06/27/13 11:05	ACV	
Cadmium [7440-43-9] ^	**3.94**	D	mg/kg dry	5	0.119	0.331	0.663	EPA 6010C	06/27/13 11:05	ACV	
Calcium [7440-70-2] ^	**22200**	D	mg/kg dry	5	8.61	82.8	166	EPA 6010C	06/27/13 11:05	ACV	
Chromium [7440-47-3] ^	**43.4**	D	mg/kg dry	5	0.239	1.66	3.31	EPA 6010C	06/27/13 11:05	ACV	
Cobalt [7440-48-4] ^	**5.98**	D	mg/kg dry	5	0.232	1.66	3.31	EPA 6010C	06/27/13 11:05	ACV	
Copper [7440-50-8] ^	**426**	D	mg/kg dry	5	0.523	1.66	3.31	EPA 6010C	06/27/13 11:05	ACV	
Iron [7439-89-6] ^	**30100**	D	mg/kg dry	5	11.3	16.6	33.1	EPA 6010C	06/27/13 11:05	ACV	
Lead [7439-92-1] ^	**2110**	D	mg/kg dry	5	0.729	6.63	13.3	EPA 6010C	06/27/13 11:05	ACV	

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Description:	TR-2ND-SB05-0.5-01-0613	**Lab Sample ID:**	A303499-17	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	75.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Magnesium [7439-95-4] ^	**1810**	D	mg/kg dry	5	5.66	82.8	166	EPA 6010C	06/27/13 11:05	ACV	
Manganese [7439-96-5] ^	**474**	D	mg/kg dry	5	0.0729	3.31	6.63	EPA 6010C	06/27/13 11:05	ACV	
Nickel [7440-02-0] ^	**27.6**	D	mg/kg dry	5	0.225	1.66	3.31	EPA 6010C	06/27/13 11:05	ACV	
Potassium [7440-09-7] ^	**852**	D	mg/kg dry	5	32.5	166	331	EPA 6010C	06/27/13 11:05	ACV	
Selenium [7782-49-2] ^	<6.63	UD	mg/kg dry	5	2.12	6.63	13.3	EPA 6010C	06/27/13 11:05	ACV	
Silver [7440-22-4] ^	**8.87**	D	mg/kg dry	5	0.610	1.66	3.31	EPA 6010C	06/27/13 11:05	ACV	
Sodium [7440-23-5] ^	**197**	D	mg/kg dry	5	19.9	82.8	166	EPA 6010C	06/27/13 11:05	ACV	
Thallium [7440-28-0] ^	<6.63	UD	mg/kg dry	5	1.52	6.63	13.3	EPA 6010C	06/27/13 11:05	ACV	
Vanadium [7440-62-2] ^	**18.5**	D	mg/kg dry	5	0.258	3.31	6.63	EPA 6010C	06/27/13 11:05	ACV	
Zinc [7440-66-6] ^	**1940**	D	mg/kg dry	5	1.39	3.31	6.63	EPA 6010C	06/27/13 11:05	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB05-03-05-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-18
Sampled: 06/19/13 13:40
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 76.0

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/kg dry	1	0.9	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/kg dry	1	0.9	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
1,4-Dioxane [123-91-1] ^	<50	U	ug/kg dry	1	5.5	50	100	EPA 8260B	06/27/13 22:02	kat	
2-Butanone [78-93-3] ^	**4.0**	J	ug/kg dry	1	1.8	2.5	5.0	EPA 8260B	06/27/13 22:02	kat	
2-Hexanone [591-78-6] ^	<2.5	U	ug/kg dry	1	0.9	2.5	5.0	EPA 8260B	06/27/13 22:02	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.5	U	ug/kg dry	1	1.4	2.5	5.0	EPA 8260B	06/27/13 22:02	kat	
Acetone [67-64-1] ^	**45**		ug/kg dry	1	1.7	13	25	EPA 8260B	06/27/13 22:02	kat	
Benzene [71-43-2] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Bromomethane [74-83-9] ^	<5.0	U	ug/kg dry	1	0.9	5.0	10	EPA 8260B	06/27/13 22:02	kat	
Carbon disulfide [75-15-0] ^	<5.0	U	ug/kg dry	1	2.1	5.0	10	EPA 8260B	06/27/13 22:02	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/kg dry	1	0.7	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/kg dry	1	0.6	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.0	U	ug/kg dry	1	1.0	2.0	4.0	EPA 8260B	06/27/13 22:02	kat	
Methyl acetate [79-20-9] ^	<5.0	U	ug/kg dry	1	1.6	5.0	10	EPA 8260B	06/27/13 22:02	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Methylene Chloride [75-09-2] ^	<5.0	U	ug/kg dry	1	0.7	5.0	10	EPA 8260B	06/27/13 22:02	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Styrene [100-42-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Toluene [108-88-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/kg dry	1	0.7	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/kg dry	1	0.3	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	2.0	EPA 8260B	06/27/13 22:02	kat	
Xylenes (Total) [1330-20-7] ^	<2.0	U	ug/kg dry	1	1.0	2.0	4.0	EPA 8260B	06/27/13 22:02	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.3*	*105 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 22:02*	*kat*	
Dibromofluoromethane	*51*	*1*	*50.3*	*102 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 22:02*	*kat*	
Toluene-d8	*52*	*1*	*50.3*	*103 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 22:02*	*kat*	

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 22:02	kat	

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Description: TR-2ND-SB05-03-05-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-18
Sampled: 06/19/13 13:40
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 76.0

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<130	U	ug/kg dry	1	130	130	430	EPA 8270D	07/07/13 15:41	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<130	UQ	ug/kg dry	1	91	130	430	EPA 8270D	07/07/13 15:41	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<260	U	ug/kg dry	1	97	260	430	EPA 8270D	07/07/13 15:41	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<130	U	ug/kg dry	1	76	130	430	EPA 8270D	07/07/13 15:41	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<130	U	ug/kg dry	1	79	130	430	EPA 8270D	07/07/13 15:41	jfi	
2,4-Dichlorophenol [120-83-2] ^	<130	U	ug/kg dry	1	93	130	430	EPA 8270D	07/07/13 15:41	jfi	
2,4-Dimethylphenol [105-67-9] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 15:41	jfi	
2,4-Dinitrophenol [51-28-5] ^	<390	U	ug/kg dry	1	160	390	430	EPA 8270D	07/07/13 15:41	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<130	U	ug/kg dry	1	95	130	430	EPA 8270D	07/07/13 15:41	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<130	U	ug/kg dry	1	91	130	430	EPA 8270D	07/07/13 15:41	jfi	
2-Chloronaphthalene [91-58-7] ^	<130	U	ug/kg dry	1	86	130	430	EPA 8270D	07/07/13 15:41	jfi	
2-Chlorophenol [95-57-8] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<390	U	ug/kg dry	1	170	390	430	EPA 8270D	07/07/13 15:41	jfi	
2-Methylphenol [95-48-7] ^	<130	U	ug/kg dry	1	92	130	430	EPA 8270D	07/07/13 15:41	jfi	
2-Nitroaniline [88-74-4] ^	<130	U	ug/kg dry	1	88	130	430	EPA 8270D	07/07/13 15:41	jfi	
2-Nitrophenol [88-75-5] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 15:41	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<260	U	ug/kg dry	1	210	260	430	EPA 8270D	07/07/13 15:41	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 15:41	jfi	
3-Nitroaniline [99-09-2] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 15:41	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<130	U	ug/kg dry	1	96	130	430	EPA 8270D	07/07/13 15:41	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<130	U	ug/kg dry	1	88	130	430	EPA 8270D	07/07/13 15:41	jfi	
4-Chloroaniline [106-47-8] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 15:41	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<130	U	ug/kg dry	1	88	130	430	EPA 8270D	07/07/13 15:41	jfi	
4-Nitroaniline [100-01-6] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
4-Nitrophenol [100-02-7] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
Acetophenone [98-86-2] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
Atrazine [1912-24-9] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 15:41	jfi	
Benzaldehyde [100-52-7] ^	<130	U	ug/kg dry	1	130	130	430	EPA 8270D	07/07/13 15:41	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<130	U	ug/kg dry	1	84	130	430	EPA 8270D	07/07/13 15:41	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 15:41	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
Butylbenzylphthalate [85-68-7] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 15:41	jfi	
Caprolactam [105-60-2] ^	<260	U	ug/kg dry	1	130	260	430	EPA 8270D	07/07/13 15:41	jfi	
Carbazole [86-74-8] ^	<130	U	ug/kg dry	1	90	130	430	EPA 8270D	07/07/13 15:41	jfi	
Dibenzofuran [132-64-9] ^	<130	U	ug/kg dry	1	87	130	430	EPA 8270D	07/07/13 15:41	jfi	
Diethylphthalate [84-66-2] ^	<130	U	ug/kg dry	1	99	130	430	EPA 8270D	07/07/13 15:41	jfi	
Dimethylphthalate [131-11-3] ^	<130	U	ug/kg dry	1	82	130	430	EPA 8270D	07/07/13 15:41	jfi	
Di-n-butylphthalate [84-74-2] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 15:41	jfi	
Di-n-octylphthalate [117-84-0] ^	<130	U	ug/kg dry	1	88	130	430	EPA 8270D	07/07/13 15:41	jfi	
Hexachlorobenzene [118-74-1] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
Hexachlorobutadiene [87-68-3] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 15:41	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 15:41	jfi	
Hexachloroethane [67-72-1] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 15:41	jfi	
Isophorone [78-59-1] ^	<130	U	ug/kg dry	1	95	130	430	EPA 8270D	07/07/13 15:41	jfi	
Nitrobenzene [98-95-3] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 15:41	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 15:41	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<260	U	ug/kg dry	1	180	260	430	EPA 8270D	07/07/13 15:41	jfi	
Pentachlorophenol [87-86-5] ^	<390	U	ug/kg dry	1	180	390	430	EPA 8270D	07/07/13 15:41	jfi	

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Phenol [108-95-2] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 15:41	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2100*	*1*	*2190*	*97 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 15:41*	*jfi*	
2-Fluorobiphenyl	*1100*	*1*	*2190*	*49 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 15:41*	*jfi*	
2-Fluorophenol	*1500*	*1*	*2190*	*68 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 15:41*	*jfi*	
Nitrobenzene-d5	*1300*	*1*	*2190*	*59 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 15:41*	*jfi*	
Phenol-d5	*1700*	*1*	*2190*	*78 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 15:41*	*jfi*	
Terphenyl-d14	*2600*	*1*	*2190*	*118 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 15:41*	*jfi*	

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/07/13 15:41	jfi	
unknown (01) [NA]	**210**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:41	jfi	
unknown (02) [NA]	**350**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:41	jfi	
unknown (03) [NA]	**290**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:41	jfi	
unknown (04) [NA]	**220**	J	ug/kg dry	1				EPA 8270D	07/07/13 15:41	jfi	

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<33	U	ug/kg dry	1	24	33	46	EPA 8270D	07/03/13 17:42	jfi	
Acenaphthene [83-32-9] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:42	jfi	
Acenaphthylene [208-96-8] ^	<33	U	ug/kg dry	1	24	33	46	EPA 8270D	07/03/13 17:42	jfi	
Anthracene [120-12-7] ^	<33	U	ug/kg dry	1	18	33	46	EPA 8270D	07/03/13 17:42	jfi	
Benzo(a)anthracene [56-55-3] ^	**21**	J	ug/kg dry	1	18	33	46	EPA 8270D	07/03/13 17:42	jfi	
Benzo(a)pyrene [50-32-8] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:42	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<33	U	ug/kg dry	1	22	33	46	EPA 8270D	07/03/13 17:42	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:42	jfi	
Benzo(k)fluoranthene [207-08-9] ^	**32**	J	ug/kg dry	1	25	33	46	EPA 8270D	07/03/13 17:42	jfi	
Chrysene [218-01-9] ^	**24**	J	ug/kg dry	1	16	33	46	EPA 8270D	07/03/13 17:42	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<33	U	ug/kg dry	1	21	33	46	EPA 8270D	07/03/13 17:42	jfi	
Fluoranthene [206-44-0] ^	**26**	J	ug/kg dry	1	22	33	46	EPA 8270D	07/03/13 17:42	jfi	
Fluorene [86-73-7] ^	<33	U	ug/kg dry	1	22	33	46	EPA 8270D	07/03/13 17:42	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:42	jfi	
Naphthalene [91-20-3] ^	<33	U	ug/kg dry	1	24	33	46	EPA 8270D	07/03/13 17:42	jfi	
Phenanthrene [85-01-8] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 17:42	jfi	
Pyrene [129-00-0] ^	**26**	J	ug/kg dry	1	21	33	46	EPA 8270D	07/03/13 17:42	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*2100*	*1*	*2630*	*78 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 17:42*	*jfi*	

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.68	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.68	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.87	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.87	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.74	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.74	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.51	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.51	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.97	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.97	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.66	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.82	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.82	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/26/13 19:45	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/29/13 14:25	RC	
Toxaphene [8001-35-2]	<26	U	ug/kg dry	1	13	26	43	EPA 8081B	06/26/13 19:45	RC	
Toxaphene [8001-35-2]	<26	U	ug/kg dry	1	13	26	43	EPA 8081B	06/29/13 14:25	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*11*	*1*	*43.6*	*26 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 19:45*	*RC*	*QS-03*
2,4,5,6-TCMX	*17*	*1*	*43.3*	*40 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 14:25*	*RC*	*QS-03*
Decachlorobiphenyl	*18*	*1*	*43.6*	*42 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 19:45*	*RC*	*QS-03*
Decachlorobiphenyl	*31*	*1*	*43.3*	*73 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 14:25*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<26	U	ug/kg dry	1	18	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<26	U	ug/kg dry	1	18	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1221 [11104-28-2] ^	<26	U	ug/kg dry	1	18	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1232 [11141-16-5] ^	<26	U	ug/kg dry	1	18	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1242 [53469-21-9] ^	<26	U	ug/kg dry	1	13	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1248 [12672-29-6] ^	<26	U	ug/kg dry	1	8.3	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1254 [11097-69-1] ^	<26	U	ug/kg dry	1	20	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1260 [11096-82-5] ^	<26	U	ug/kg dry	1	14	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1262 [37324-23-5] ^	<26	U	ug/kg dry	1	18	26	53	EPA 8082A	06/27/13 16:55	RC	
PCB-1268 [11100-14-4] ^	<26	U	ug/kg dry	1	13	26	53	EPA 8082A	06/27/13 16:55	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*13*	*1*	*43.6*	*30 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 16:55*	*RC*	
Decachlorobiphenyl	*27*	*1*	*43.6*	*61 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 16:55*	*RC*	

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Description:	TR-2ND-SB05-03-05-0613	**Lab Sample ID:**	A303499-18	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 13:40	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.0

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**13.7**	E	mg/kg dry	1	0.00513	0.00750	0.0132	EPA 7471B	06/21/13 08:59	IR	E
Mercury [7439-97-6] ^	**49.7**	DE	mg/kg dry	20	0.103	0.150	0.263	EPA 7471B	06/21/13 09:26	IR	E
Mercury [7439-97-6] ^	**51.3**	D	mg/kg dry	100	0.513	0.750	1.32	EPA 7471B	06/21/13 09:36	IR	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**18500**		mg/kg dry	1	3.67	15.3	30.6	EPA 6010C	06/27/13 11:11	ACV	
Antimony [7440-36-0] ^	<1.53	U	mg/kg dry	1	0.750	1.53	3.06	EPA 6010C	06/27/13 11:11	ACV	
Arsenic [7440-38-2] ^	**3.30**		mg/kg dry	1	0.429	1.53	3.06	EPA 6010C	06/27/13 11:11	ACV	
Barium [7440-39-3] ^	**70.0**		mg/kg dry	1	0.0337	0.383	0.765	EPA 6010C	06/27/13 11:11	ACV	
Beryllium [7440-41-7] ^	**0.349**		mg/kg dry	1	0.00934	0.0383	0.0765	EPA 6010C	06/27/13 11:11	ACV	
Cadmium [7440-43-9] ^	**0.118**	J	mg/kg dry	1	0.0276	0.0765	0.153	EPA 6010C	06/27/13 11:11	ACV	
Calcium [7440-70-2] ^	**1490**		mg/kg dry	1	1.99	19.1	38.3	EPA 6010C	06/27/13 11:11	ACV	
Chromium [7440-47-3] ^	**25.4**		mg/kg dry	1	0.0551	0.383	0.765	EPA 6010C	06/27/13 11:11	ACV	
Cobalt [7440-48-4] ^	**3.39**		mg/kg dry	1	0.0536	0.383	0.765	EPA 6010C	06/27/13 11:11	ACV	
Copper [7440-50-8] ^	**30.1**		mg/kg dry	1	0.121	0.383	0.765	EPA 6010C	06/27/13 11:11	ACV	
Iron [7439-89-6] ^	**9400**		mg/kg dry	1	2.60	3.83	7.65	EPA 6010C	06/27/13 11:11	ACV	
Lead [7439-92-1] ^	**20.3**		mg/kg dry	1	0.168	1.53	3.06	EPA 6010C	06/27/13 11:11	ACV	
Magnesium [7439-95-4] ^	**2390**		mg/kg dry	1	1.31	19.1	38.3	EPA 6010C	06/27/13 11:11	ACV	
Manganese [7439-96-5] ^	**94.5**		mg/kg dry	1	0.0168	0.765	1.53	EPA 6010C	06/27/13 11:11	ACV	
Nickel [7440-02-0] ^	**13.2**		mg/kg dry	1	0.0520	0.383	0.765	EPA 6010C	06/27/13 11:11	ACV	
Potassium [7440-09-7] ^	**941**		mg/kg dry	1	7.50	38.3	76.5	EPA 6010C	06/27/13 11:11	ACV	
Selenium [7782-49-2] ^	<1.53	U	mg/kg dry	1	0.490	1.53	3.06	EPA 6010C	06/27/13 11:11	ACV	
Silver [7440-22-4] ^	<0.383	U	mg/kg dry	1	0.141	0.383	0.765	EPA 6010C	06/27/13 11:11	ACV	
Sodium [7440-23-5] ^	**225**		mg/kg dry	1	4.59	19.1	38.3	EPA 6010C	06/27/13 11:11	ACV	
Thallium [7440-28-0] ^	**0.431**	J	mg/kg dry	1	0.352	1.53	3.06	EPA 6010C	06/27/13 11:11	ACV	
Vanadium [7440-62-2] ^	**20.4**		mg/kg dry	1	0.0597	0.765	1.53	EPA 6010C	06/27/13 11:11	ACV	
Zinc [7440-66-6] ^	**670**		mg/kg dry	1	0.321	0.765	1.53	EPA 6010C	06/27/13 11:11	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB03-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-19
Sampled: 06/19/13 14:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 76.6

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,1-Dichloroethane [75-34-3] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,1-Dichloroethene [75-35-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,2-Dibromoethane [106-93-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,2-Dichloroethane [107-06-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,2-Dichloropropane [78-87-5] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
1,4-Dioxane [123-91-1] ^	<59	U	ug/kg dry	1	6.5	59	120	EPA 8260B	06/27/13 22:37	kat	
2-Butanone [78-93-3] ^	<2.9	U	ug/kg dry	1	2.1	2.9	5.9	EPA 8260B	06/27/13 22:37	kat	
2-Hexanone [591-78-6] ^	<2.9	U	ug/kg dry	1	1.1	2.9	5.9	EPA 8260B	06/27/13 22:37	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.9	U	ug/kg dry	1	1.6	2.9	5.9	EPA 8260B	06/27/13 22:37	kat	
Acetone [67-64-1] ^	<15	U	ug/kg dry	1	2.0	15	29	EPA 8260B	06/27/13 22:37	kat	
Benzene [71-43-2] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Bromochloromethane [74-97-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Bromodichloromethane [75-27-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Bromoform [75-25-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Bromomethane [74-83-9] ^	<5.9	U	ug/kg dry	1	1.1	5.9	12	EPA 8260B	06/27/13 22:37	kat	
Carbon disulfide [75-15-0] ^	<5.9	U	ug/kg dry	1	2.5	5.9	12	EPA 8260B	06/27/13 22:37	kat	
Carbon Tetrachloride [56-23-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Chlorobenzene [108-90-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Chloroethane [75-00-3] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Chloroform [67-66-3] ^	**0.6**	J	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Chloromethane [74-87-3] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Cyclohexane [110-82-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Dibromochloromethane [124-48-1] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Ethylbenzene [100-41-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Freon 113 [76-13-1] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Isopropylbenzene [98-82-8] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<2.3	U	ug/kg dry	1	1.2	2.3	4.7	EPA 8260B	06/27/13 22:37	kat	
Methyl acetate [79-20-9] ^	<5.9	U	ug/kg dry	1	1.9	5.9	12	EPA 8260B	06/27/13 22:37	kat	
Methyl cyclohexane [108-87-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Methylene Chloride [75-09-2] ^	<5.9	U	ug/kg dry	1	0.8	5.9	12	EPA 8260B	06/27/13 22:37	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
o-Xylene [95-47-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Styrene [100-42-5] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Tetrachloroethene [127-18-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Toluene [108-88-3] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Trichlorofluoromethane [75-69-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Vinyl chloride [75-01-4] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.3	EPA 8260B	06/27/13 22:37	kat	
Xylenes (Total) [1330-20-7] ^	<2.3	U	ug/kg dry	1	1.2	2.3	4.7	EPA 8260B	06/27/13 22:37	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*58.7*	*96 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 22:37*	*kat*	
Dibromofluoromethane	*59*	*1*	*58.7*	*100 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 22:37*	*kat*	
Toluene-d8	*57*	*1*	*58.7*	*98 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 22:37*	*kat*	

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1R-.alpha.-Pinene [007785-70-8]	**5.9**	J	ug/kg dry	1				EPA 8260B	06/27/13 22:37	kat	
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 22:37	kat	

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Description: TR-2ND-SB03-0.5-01-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-19
Sampled: 06/19/13 14:00
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 76.6

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 16:09	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<130	UQ	ug/kg dry	1	90	130	430	EPA 8270D	07/07/13 16:09	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<260	U	ug/kg dry	1	97	260	430	EPA 8270D	07/07/13 16:09	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<130	U	ug/kg dry	1	76	130	430	EPA 8270D	07/07/13 16:09	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<130	U	ug/kg dry	1	78	130	430	EPA 8270D	07/07/13 16:09	jfi	
2,4-Dichlorophenol [120-83-2] ^	<130	U	ug/kg dry	1	93	130	430	EPA 8270D	07/07/13 16:09	jfi	
2,4-Dimethylphenol [105-67-9] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 16:09	jfi	
2,4-Dinitrophenol [51-28-5] ^	<390	U	ug/kg dry	1	160	390	430	EPA 8270D	07/07/13 16:09	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<130	U	ug/kg dry	1	94	130	430	EPA 8270D	07/07/13 16:09	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<130	U	ug/kg dry	1	90	130	430	EPA 8270D	07/07/13 16:09	jfi	
2-Chloronaphthalene [91-58-7] ^	<130	U	ug/kg dry	1	85	130	430	EPA 8270D	07/07/13 16:09	jfi	
2-Chlorophenol [95-57-8] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 16:09	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<390	U	ug/kg dry	1	170	390	430	EPA 8270D	07/07/13 16:09	jfi	
2-Methylphenol [95-48-7] ^	<130	U	ug/kg dry	1	91	130	430	EPA 8270D	07/07/13 16:09	jfi	
2-Nitroaniline [88-74-4] ^	<130	U	ug/kg dry	1	87	130	430	EPA 8270D	07/07/13 16:09	jfi	
2-Nitrophenol [88-75-5] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 16:09	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<260	U	ug/kg dry	1	210	260	430	EPA 8270D	07/07/13 16:09	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 16:09	jfi	
3-Nitroaniline [99-09-2] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 16:09	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<130	U	ug/kg dry	1	95	130	430	EPA 8270D	07/07/13 16:09	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<130	U	ug/kg dry	1	87	130	430	EPA 8270D	07/07/13 16:09	jfi	
4-Chloroaniline [106-47-8] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 16:09	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<130	U	ug/kg dry	1	87	130	430	EPA 8270D	07/07/13 16:09	jfi	
4-Nitroaniline [100-01-6] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 16:09	jfi	
4-Nitrophenol [100-02-7] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 16:09	jfi	
Acetophenone [98-86-2] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 16:09	jfi	
Atrazine [1912-24-9] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 16:09	jfi	
Benzaldehyde [100-52-7] ^	<130	U	ug/kg dry	1	130	130	430	EPA 8270D	07/07/13 16:09	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<130	U	ug/kg dry	1	84	130	430	EPA 8270D	07/07/13 16:09	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 16:09	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 16:09	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 16:09	jfi	
Butylbenzylphthalate [85-68-7] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 16:09	jfi	
Caprolactam [105-60-2] ^	<260	U	ug/kg dry	1	130	260	430	EPA 8270D	07/07/13 16:09	jfi	
Carbazole [86-74-8] ^	<130	U	ug/kg dry	1	89	130	430	EPA 8270D	07/07/13 16:09	jfi	
Dibenzofuran [132-64-9] ^	<130	U	ug/kg dry	1	86	130	430	EPA 8270D	07/07/13 16:09	jfi	
Diethylphthalate [84-66-2] ^	<130	U	ug/kg dry	1	98	130	430	EPA 8270D	07/07/13 16:09	jfi	
Dimethylphthalate [131-11-3] ^	<130	U	ug/kg dry	1	81	130	430	EPA 8270D	07/07/13 16:09	jfi	
Di-n-butylphthalate [84-74-2] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 16:09	jfi	
Di-n-octylphthalate [117-84-0] ^	<130	U	ug/kg dry	1	87	130	430	EPA 8270D	07/07/13 16:09	jfi	
Hexachlorobenzene [118-74-1] ^	<130	U	ug/kg dry	1	110	130	430	EPA 8270D	07/07/13 16:09	jfi	
Hexachlorobutadiene [87-68-3] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 16:09	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 16:09	jfi	
Hexachloroethane [67-72-1] ^	<130	U	ug/kg dry	1	97	130	430	EPA 8270D	07/07/13 16:09	jfi	
Isophorone [78-59-1] ^	<130	U	ug/kg dry	1	94	130	430	EPA 8270D	07/07/13 16:09	jfi	
Nitrobenzene [98-95-3] ^	<130	U	ug/kg dry	1	100	130	430	EPA 8270D	07/07/13 16:09	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<130	U	ug/kg dry	1	120	130	430	EPA 8270D	07/07/13 16:09	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<260	U	ug/kg dry	1	180	260	430	EPA 8270D	07/07/13 16:09	jfi	
Pentachlorophenol [87-86-5] ^	<390	U	ug/kg dry	1	180	390	430	EPA 8270D	07/07/13 16:09	jfi	

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Phenol [108-95-2] ^	<130	U	ug/kg dry	1	99	130	430	EPA 8270D	07/07/13 16:09	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2100*	*1*	*2180*	*97 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 16:09*	*jfi*	
2-Fluorobiphenyl	*1300*	*1*	*2180*	*62 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 16:09*	*jfi*	
2-Fluorophenol	*1800*	*1*	*2180*	*83 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 16:09*	*jfi*	
Nitrobenzene-d5	*1600*	*1*	*2180*	*72 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 16:09*	*jfi*	
Phenol-d5	*2200*	*1*	*2180*	*99 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 16:09*	*jfi*	
Terphenyl-d14	*2700*	*1*	*2180*	*125 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 16:09*	*jfi*	

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Cinnamyl cinnamate [000122-69-0]	**1700**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:09	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/07/13 16:09	jfi	

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<33	U	ug/kg dry	1	23	33	46	EPA 8270D	07/03/13 18:03	jfi	
Acenaphthene [83-32-9] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 18:03	jfi	
Acenaphthylene [208-96-8] ^	<33	U	ug/kg dry	1	23	33	46	EPA 8270D	07/03/13 18:03	jfi	
Anthracene [120-12-7] ^	<33	U	ug/kg dry	1	18	33	46	EPA 8270D	07/03/13 18:03	jfi	
Benzo(a)anthracene [56-55-3] ^	<33	U	ug/kg dry	1	18	33	46	EPA 8270D	07/03/13 18:03	jfi	
Benzo(a)pyrene [50-32-8] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 18:03	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<33	U	ug/kg dry	1	22	33	46	EPA 8270D	07/03/13 18:03	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 18:03	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<33	U	ug/kg dry	1	25	33	46	EPA 8270D	07/03/13 18:03	jfi	
Chrysene [218-01-9] ^	<33	U	ug/kg dry	1	16	33	46	EPA 8270D	07/03/13 18:03	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<33	U	ug/kg dry	1	21	33	46	EPA 8270D	07/03/13 18:03	jfi	
Fluoranthene [206-44-0] ^	<33	U	ug/kg dry	1	22	33	46	EPA 8270D	07/03/13 18:03	jfi	
Fluorene [86-73-7] ^	<33	U	ug/kg dry	1	22	33	46	EPA 8270D	07/03/13 18:03	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 18:03	jfi	
Naphthalene [91-20-3] ^	<33	U	ug/kg dry	1	23	33	46	EPA 8270D	07/03/13 18:03	jfi	
Phenanthrene [85-01-8] ^	<33	U	ug/kg dry	1	20	33	46	EPA 8270D	07/03/13 18:03	jfi	
Pyrene [129-00-0] ^	<33	U	ug/kg dry	1	21	33	46	EPA 8270D	07/03/13 18:03	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*2100*	*1*	*2610*	*82 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 18:03*	*jfi*	

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
4,4'-DDD [72-54-8] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.68	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
4,4'-DDE [72-55-9] ^	<1.3	U	ug/kg dry	1	0.68	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.86	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
4,4'-DDT [50-29-3] ^	<1.3	U	ug/kg dry	1	0.86	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.64	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Aldrin [309-00-2] ^	<1.3	U	ug/kg dry	1	0.64	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.73	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
alpha-BHC [319-84-6] ^	<1.3	U	ug/kg dry	1	0.73	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
beta-BHC [319-85-7] ^	<1.3	U	ug/kg dry	1	1.3	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Chlordane-alpha [5103-71-9] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Chlordane-gamma [5566-34-7] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
delta-BHC [319-86-8] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Dieldrin [60-57-1] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.51	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Endosulfan I [959-98-8] ^	<1.3	U	ug/kg dry	1	0.51	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Endosulfan II [33213-65-9] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.64	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Endosulfan sulfate [1031-07-8] ^	<1.3	U	ug/kg dry	1	0.64	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.97	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Endrin [72-20-8] ^	<1.3	U	ug/kg dry	1	0.97	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Endrin aldehyde [7421-93-4] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Endrin ketone [53494-70-5] ^	<1.3	U	ug/kg dry	1	0.59	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
gamma-BHC [58-89-9] ^	<1.3	U	ug/kg dry	1	0.65	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.81	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Heptachlor [76-44-8] ^	<1.3	U	ug/kg dry	1	0.81	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Heptachlor epoxide [1024-57-3] ^	<1.3	U	ug/kg dry	1	0.63	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/26/13 19:57	RC	
Methoxychlor [72-43-5] ^	<1.3	U	ug/kg dry	1	1.1	1.3	2.2	EPA 8081B	06/29/13 14:37	RC	
Toxaphene [8001-35-2]	<26	U	ug/kg dry	1	13	26	43	EPA 8081B	06/26/13 19:57	RC	
Toxaphene [8001-35-2]	<26	U	ug/kg dry	1	13	26	43	EPA 8081B	06/29/13 14:37	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*15*	*1*	*42.8*	*34 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 19:57*	*RC*	*QS-03*
2,4,5,6-TCMX	*29*	*1*	*43.4*	*67 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 14:37*	*RC*	*QS-03*
Decachlorobiphenyl	*18*	*1*	*42.8*	*42 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 19:57*	*RC*	*QS-03*
Decachlorobiphenyl	*29*	*1*	*43.4*	*66 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 14:37*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<26	U	ug/kg dry	1	18	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<26	U	ug/kg dry	1	18	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1221 [11104-28-2] ^	<26	U	ug/kg dry	1	18	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1232 [11141-16-5] ^	<26	U	ug/kg dry	1	18	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1242 [53469-21-9] ^	<26	U	ug/kg dry	1	13	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1248 [12672-29-6] ^	<26	U	ug/kg dry	1	8.2	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1254 [11097-69-1] ^	<26	U	ug/kg dry	1	20	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1260 [11096-82-5] ^	<26	U	ug/kg dry	1	14	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1262 [37324-23-5] ^	<26	U	ug/kg dry	1	18	26	52	EPA 8082A	06/27/13 17:07	RC	
PCB-1268 [11100-14-4] ^	<26	U	ug/kg dry	1	13	26	52	EPA 8082A	06/27/13 17:07	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*17*	*1*	*42.8*	*39 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 17:07*	*RC*	
Decachlorobiphenyl	*27*	*1*	*42.8*	*64 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 17:07*	*RC*	

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Description:	TR-2ND-SB03-0.5-01-0613	**Lab Sample ID:**	A303499-19	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:00	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	76.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**2.00**	E	mg/kg dry	1	0.00509	0.00744	0.0131	EPA 7471B	06/21/13 09:13	IR	E
Mercury [7439-97-6] ^	**2.12**	D	mg/kg dry	3	0.0153	0.0223	0.0392	EPA 7471B	06/21/13 09:30	IR	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**19300**		mg/kg dry	1	3.13	13.0	26.1	EPA 6010C	06/27/13 11:12	ACV	
Antimony [7440-36-0] ^	<1.30	U	mg/kg dry	1	0.639	1.30	2.61	EPA 6010C	06/27/13 11:12	ACV	
Arsenic [7440-38-2] ^	**3.74**		mg/kg dry	1	0.365	1.30	2.61	EPA 6010C	06/27/13 11:12	ACV	
Barium [7440-39-3] ^	**65.3**		mg/kg dry	1	0.0287	0.326	0.652	EPA 6010C	06/27/13 11:12	ACV	
Beryllium [7440-41-7] ^	**0.420**		mg/kg dry	1	0.00796	0.0326	0.0652	EPA 6010C	06/27/13 11:12	ACV	
Cadmium [7440-43-9] ^	<0.0652	U	mg/kg dry	1	0.0235	0.0652	0.130	EPA 6010C	06/27/13 11:12	ACV	
Calcium [7440-70-2] ^	**1680**		mg/kg dry	1	1.70	16.3	32.6	EPA 6010C	06/27/13 11:12	ACV	
Chromium [7440-47-3] ^	**24.2**		mg/kg dry	1	0.0470	0.326	0.652	EPA 6010C	06/27/13 11:12	ACV	
Cobalt [7440-48-4] ^	**3.91**		mg/kg dry	1	0.0457	0.326	0.652	EPA 6010C	06/27/13 11:12	ACV	
Copper [7440-50-8] ^	**9.13**		mg/kg dry	1	0.103	0.326	0.652	EPA 6010C	06/27/13 11:12	ACV	
Iron [7439-89-6] ^	**8830**		mg/kg dry	1	2.22	3.26	6.52	EPA 6010C	06/27/13 11:12	ACV	
Lead [7439-92-1] ^	**6.73**		mg/kg dry	1	0.144	1.30	2.61	EPA 6010C	06/27/13 11:12	ACV	
Magnesium [7439-95-4] ^	**2310**		mg/kg dry	1	1.12	16.3	32.6	EPA 6010C	06/27/13 11:12	ACV	
Manganese [7439-96-5] ^	**81.1**		mg/kg dry	1	0.0144	0.652	1.30	EPA 6010C	06/27/13 11:12	ACV	
Nickel [7440-02-0] ^	**13.3**		mg/kg dry	1	0.0444	0.326	0.652	EPA 6010C	06/27/13 11:12	ACV	
Potassium [7440-09-7] ^	**938**		mg/kg dry	1	6.39	32.6	65.2	EPA 6010C	06/27/13 11:12	ACV	
Selenium [7782-49-2] ^	<1.30	U	mg/kg dry	1	0.418	1.30	2.61	EPA 6010C	06/27/13 11:12	ACV	
Silver [7440-22-4] ^	<0.326	U	mg/kg dry	1	0.120	0.326	0.652	EPA 6010C	06/27/13 11:12	ACV	
Sodium [7440-23-5] ^	**74.3**		mg/kg dry	1	3.91	16.3	32.6	EPA 6010C	06/27/13 11:12	ACV	
Thallium [7440-28-0] ^	**0.834**	J	mg/kg dry	1	0.300	1.30	2.61	EPA 6010C	06/27/13 11:12	ACV	
Vanadium [7440-62-2] ^	**20.6**		mg/kg dry	1	0.0509	0.652	1.30	EPA 6010C	06/27/13 11:12	ACV	
Zinc [7440-66-6] ^	**22.5**		mg/kg dry	1	0.274	0.652	1.30	EPA 6010C	06/27/13 11:12	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB03-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-20
Sampled: 06/19/13 14:10
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 80.9

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,1-Dichloroethane [75-34-3] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,1-Dichloroethene [75-35-4] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.0	U	ug/kg dry	1	0.9	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.0	U	ug/kg dry	1	0.8	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,2-Dibromoethane [106-93-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.0	U	ug/kg dry	1	0.4	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,2-Dichloroethane [107-06-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,2-Dichloropropane [78-87-5] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.0	U	ug/kg dry	1	0.4	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
1,4-Dioxane [123-91-1] ^	<49	U	ug/kg dry	1	5.4	49	97	EPA 8260B	06/27/13 23:11	kat	
2-Butanone [78-93-3] ^	<2.4	U	ug/kg dry	1	1.8	2.4	4.9	EPA 8260B	06/27/13 23:11	kat	
2-Hexanone [591-78-6] ^	<2.4	U	ug/kg dry	1	0.9	2.4	4.9	EPA 8260B	06/27/13 23:11	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.4	U	ug/kg dry	1	1.4	2.4	4.9	EPA 8260B	06/27/13 23:11	kat	
Acetone [67-64-1] ^	<12	U	ug/kg dry	1	1.7	12	24	EPA 8260B	06/27/13 23:11	kat	
Benzene [71-43-2] ^	<1.0	U	ug/kg dry	1	0.4	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Bromochloromethane [74-97-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Bromodichloromethane [75-27-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Bromoform [75-25-2] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Bromomethane [74-83-9] ^	<4.9	U	ug/kg dry	1	0.9	4.9	9.7	EPA 8260B	06/27/13 23:11	kat	
Carbon disulfide [75-15-0] ^	<4.9	U	ug/kg dry	1	2.0	4.9	9.7	EPA 8260B	06/27/13 23:11	kat	
Carbon Tetrachloride [56-23-5] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Chlorobenzene [108-90-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Chloroethane [75-00-3] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Chloroform [67-66-3] ^	<1.0	U	ug/kg dry	1	0.4	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Chloromethane [74-87-3] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Cyclohexane [110-82-7] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Dibromochloromethane [124-48-1] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Ethylbenzene [100-41-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Freon 113 [76-13-1] ^	<1.0	U	ug/kg dry	1	0.6	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Isopropylbenzene [98-82-8] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<1.9	U	ug/kg dry	1	1.0	1.9	3.9	EPA 8260B	06/27/13 23:11	kat	
Methyl acetate [79-20-9] ^	<4.9	U	ug/kg dry	1	1.6	4.9	9.7	EPA 8260B	06/27/13 23:11	kat	
Methyl cyclohexane [108-87-2] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Methylene Chloride [75-09-2] ^	<4.9	U	ug/kg dry	1	0.7	4.9	9.7	EPA 8260B	06/27/13 23:11	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
o-Xylene [95-47-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Styrene [100-42-5] ^	<1.0	U	ug/kg dry	1	0.4	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Tetrachloroethene [127-18-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Toluene [108-88-3] ^	<1.0	U	ug/kg dry	1	0.4	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.0	U	ug/kg dry	1	0.7	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.0	U	ug/kg dry	1	0.3	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Trichlorofluoromethane [75-69-4] ^	<1.0	U	ug/kg dry	1	0.5	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Vinyl chloride [75-01-4] ^	<1.0	U	ug/kg dry	1	0.4	1.0	1.9	EPA 8260B	06/27/13 23:11	kat	
Xylenes (Total) [1330-20-7] ^	<1.9	U	ug/kg dry	1	1.0	1.9	3.9	EPA 8260B	06/27/13 23:11	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*48.6*	*101 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 23:11*	*kat*	
Dibromofluoromethane	*53*	*1*	*48.6*	*109 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 23:11*	*kat*	
Toluene-d8	*51*	*1*	*48.6*	*105 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 23:11*	*kat*	

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 23:11	kat	

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Description: TR-2ND-SB03-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-20
Sampled: 06/19/13 14:10
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 80.9

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<120	U	ug/kg dry	1	120	120	410	EPA 8270D	07/07/13 16:37	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<120	UQ	ug/kg dry	1	85	120	410	EPA 8270D	07/07/13 16:37	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<250	U	ug/kg dry	1	91	250	410	EPA 8270D	07/07/13 16:37	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<120	U	ug/kg dry	1	72	120	410	EPA 8270D	07/07/13 16:37	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<120	U	ug/kg dry	1	74	120	410	EPA 8270D	07/07/13 16:37	jfi	
2,4-Dichlorophenol [120-83-2] ^	<120	U	ug/kg dry	1	88	120	410	EPA 8270D	07/07/13 16:37	jfi	
2,4-Dimethylphenol [105-67-9] ^	<120	U	ug/kg dry	1	91	120	410	EPA 8270D	07/07/13 16:37	jfi	
2,4-Dinitrophenol [51-28-5] ^	<370	U	ug/kg dry	1	150	370	410	EPA 8270D	07/07/13 16:37	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<120	U	ug/kg dry	1	89	120	410	EPA 8270D	07/07/13 16:37	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<120	U	ug/kg dry	1	85	120	410	EPA 8270D	07/07/13 16:37	jfi	
2-Chloronaphthalene [91-58-7] ^	<120	U	ug/kg dry	1	80	120	410	EPA 8270D	07/07/13 16:37	jfi	
2-Chlorophenol [95-57-8] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/07/13 16:37	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<370	U	ug/kg dry	1	160	370	410	EPA 8270D	07/07/13 16:37	jfi	
2-Methylphenol [95-48-7] ^	<120	U	ug/kg dry	1	86	120	410	EPA 8270D	07/07/13 16:37	jfi	
2-Nitroaniline [88-74-4] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/07/13 16:37	jfi	
2-Nitrophenol [88-75-5] ^	<120	U	ug/kg dry	1	96	120	410	EPA 8270D	07/07/13 16:37	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<250	U	ug/kg dry	1	200	250	410	EPA 8270D	07/07/13 16:37	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/07/13 16:37	jfi	
3-Nitroaniline [99-09-2] ^	<120	U	ug/kg dry	1	91	120	410	EPA 8270D	07/07/13 16:37	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<120	U	ug/kg dry	1	90	120	410	EPA 8270D	07/07/13 16:37	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/07/13 16:37	jfi	
4-Chloroaniline [106-47-8] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/07/13 16:37	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/07/13 16:37	jfi	
4-Nitroaniline [100-01-6] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/07/13 16:37	jfi	
4-Nitrophenol [100-02-7] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/07/13 16:37	jfi	
Acetophenone [98-86-2] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/07/13 16:37	jfi	
Atrazine [1912-24-9] ^	<120	U	ug/kg dry	1	91	120	410	EPA 8270D	07/07/13 16:37	jfi	
Benzaldehyde [100-52-7] ^	<120	U	ug/kg dry	1	120	120	410	EPA 8270D	07/07/13 16:37	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<120	U	ug/kg dry	1	79	120	410	EPA 8270D	07/07/13 16:37	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/07/13 16:37	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/07/13 16:37	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/07/13 16:37	jfi	
Butylbenzylphthalate [85-68-7] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/07/13 16:37	jfi	
Caprolactam [105-60-2] ^	<250	U	ug/kg dry	1	120	250	410	EPA 8270D	07/07/13 16:37	jfi	
Carbazole [86-74-8] ^	<120	U	ug/kg dry	1	84	120	410	EPA 8270D	07/07/13 16:37	jfi	
Dibenzofuran [132-64-9] ^	<120	U	ug/kg dry	1	82	120	410	EPA 8270D	07/07/13 16:37	jfi	
Diethylphthalate [84-66-2] ^	<120	U	ug/kg dry	1	93	120	410	EPA 8270D	07/07/13 16:37	jfi	
Dimethylphthalate [131-11-3] ^	<120	U	ug/kg dry	1	77	120	410	EPA 8270D	07/07/13 16:37	jfi	
Di-n-butylphthalate [84-74-2] ^	<120	U	ug/kg dry	1	98	120	410	EPA 8270D	07/07/13 16:37	jfi	
Di-n-octylphthalate [117-84-0] ^	<120	U	ug/kg dry	1	83	120	410	EPA 8270D	07/07/13 16:37	jfi	
Hexachlorobenzene [118-74-1] ^	<120	U	ug/kg dry	1	100	120	410	EPA 8270D	07/07/13 16:37	jfi	
Hexachlorobutadiene [87-68-3] ^	<120	U	ug/kg dry	1	99	120	410	EPA 8270D	07/07/13 16:37	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/07/13 16:37	jfi	
Hexachloroethane [67-72-1] ^	<120	U	ug/kg dry	1	91	120	410	EPA 8270D	07/07/13 16:37	jfi	
Isophorone [78-59-1] ^	<120	U	ug/kg dry	1	89	120	410	EPA 8270D	07/07/13 16:37	jfi	
Nitrobenzene [98-95-3] ^	<120	U	ug/kg dry	1	98	120	410	EPA 8270D	07/07/13 16:37	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<120	U	ug/kg dry	1	110	120	410	EPA 8270D	07/07/13 16:37	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<250	U	ug/kg dry	1	170	250	410	EPA 8270D	07/07/13 16:37	jfi	
Pentachlorophenol [87-86-5] ^	<370	U	ug/kg dry	1	170	370	410	EPA 8270D	07/07/13 16:37	jfi	

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Phenol [108-95-2] ^	<120	U	ug/kg dry	1	94	120	410	EPA 8270D	07/07/13 16:37	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2000*	*1*	*2060*	*96 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 16:37*	*jfi*	
2-Fluorobiphenyl	*1200*	*1*	*2060*	*60 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 16:37*	*jfi*	
2-Fluorophenol	*1600*	*1*	*2060*	*78 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 16:37*	*jfi*	
Nitrobenzene-d5	*1500*	*1*	*2060*	*71 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 16:37*	*jfi*	
Phenol-d5	*1800*	*1*	*2060*	*90 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 16:37*	*jfi*	
Terphenyl-d14	*2500*	*1*	*2060*	*123 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 16:37*	*jfi*	

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Cinnamyl cinnamate [000122-69-0]	**450**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	
Methane, diethoxy- [000462-95-3]	**280**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	
unknown (01) [NA]	**270**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	
unknown (02) [NA]	**470**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	
unknown (03) [NA]	**410**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	
unknown (04) [NA]	**490**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	
unknown (05) [NA]	**260**	J	ug/kg dry	1				EPA 8270D	07/07/13 16:37	jfi	

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<31	U	ug/kg dry	1	22	31	43	EPA 8270D	07/03/13 18:25	jfi	
Acenaphthene [83-32-9] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 18:25	jfi	
Acenaphthylene [208-96-8] ^	<31	U	ug/kg dry	1	22	31	43	EPA 8270D	07/03/13 18:25	jfi	
Anthracene [120-12-7] ^	<31	U	ug/kg dry	1	17	31	43	EPA 8270D	07/03/13 18:25	jfi	
Benzo(a)anthracene [56-55-3] ^	<31	U	ug/kg dry	1	17	31	43	EPA 8270D	07/03/13 18:25	jfi	
Benzo(a)pyrene [50-32-8] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 18:25	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<31	U	ug/kg dry	1	21	31	43	EPA 8270D	07/03/13 18:25	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 18:25	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<31	U	ug/kg dry	1	23	31	43	EPA 8270D	07/03/13 18:25	jfi	
Chrysene [218-01-9] ^	**15**	J	ug/kg dry	1	15	31	43	EPA 8270D	07/03/13 18:25	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<31	U	ug/kg dry	1	20	31	43	EPA 8270D	07/03/13 18:25	jfi	
Fluoranthene [206-44-0] ^	<31	U	ug/kg dry	1	21	31	43	EPA 8270D	07/03/13 18:25	jfi	
Fluorene [86-73-7] ^	<31	U	ug/kg dry	1	21	31	43	EPA 8270D	07/03/13 18:25	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 18:25	jfi	
Naphthalene [91-20-3] ^	<31	U	ug/kg dry	1	22	31	43	EPA 8270D	07/03/13 18:25	jfi	
Phenanthrene [85-01-8] ^	<31	U	ug/kg dry	1	19	31	43	EPA 8270D	07/03/13 18:25	jfi	
Pyrene [129-00-0] ^	<31	U	ug/kg dry	1	20	31	43	EPA 8270D	07/03/13 18:25	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*2000*	*1*	*2470*	*82 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 18:25*	*jfi*	

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Description: TR-2ND-SB03-04-06-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-20
Sampled: 06/19/13 14:10
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 80.9

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.64	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.64	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.82	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.82	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.69	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.69	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.48	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.48	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.61	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.91	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.91	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.62	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.77	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.77	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.59	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.1	EPA 8081B	06/26/13 20:09	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.1	EPA 8081B	06/29/13 14:49	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	12	25	41	EPA 8081B	06/26/13 20:09	RC	
Toxaphene [8001-35-2]	<25	U	ug/kg dry	1	12	25	41	EPA 8081B	06/29/13 14:49	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*15*	*1*	*41.0*	*36 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 20:09*	*RC*	*QS-03*
2,4,5,6-TCMX	*31*	*1*	*41.2*	*75 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 14:49*	*RC*	
Decachlorobiphenyl	*17*	*1*	*41.0*	*40 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 20:09*	*RC*	*QS-03*
Decachlorobiphenyl	*29*	*1*	*41.2*	*71 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 14:49*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<25	U	ug/kg dry	1	17	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<25	U	ug/kg dry	1	17	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1221 [11104-28-2] ^	<25	U	ug/kg dry	1	17	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1232 [11141-16-5] ^	<25	U	ug/kg dry	1	17	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1242 [53469-21-9] ^	<25	U	ug/kg dry	1	12	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1248 [12672-29-6] ^	<25	U	ug/kg dry	1	7.8	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1254 [11097-69-1] ^	<25	U	ug/kg dry	1	19	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1260 [11096-82-5] ^	<25	U	ug/kg dry	1	14	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1262 [37324-23-5] ^	<25	U	ug/kg dry	1	17	25	49	EPA 8082A	06/27/13 17:19	RC	
PCB-1268 [11100-14-4] ^	<25	U	ug/kg dry	1	12	25	49	EPA 8082A	06/27/13 17:19	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*16*	*1*	*41.0*	*40 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 17:19*	*RC*	
Decachlorobiphenyl	*25*	*1*	*41.0*	*60 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 17:19*	*RC*	

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.153**		mg/kg dry	1	0.00425	0.00621	0.0109	EPA 7471B	06/21/13 09:16	IR	

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Description:	TR-2ND-SB03-04-06-0613	**Lab Sample ID:**	A303499-20	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:10	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	80.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**13600**		mg/kg dry	1	2.97	12.4	24.7	EPA 6010C	06/27/13 11:13	ACV	
Antimony [7440-36-0] ^	<1.24	U	mg/kg dry	1	0.605	1.24	2.47	EPA 6010C	06/27/13 11:13	ACV	
Arsenic [7440-38-2] ^	**3.06**		mg/kg dry	1	0.346	1.24	2.47	EPA 6010C	06/27/13 11:13	ACV	
Barium [7440-39-3] ^	**43.8**		mg/kg dry	1	0.0272	0.309	0.618	EPA 6010C	06/27/13 11:13	ACV	
Beryllium [7440-41-7] ^	**0.287**		mg/kg dry	1	0.00754	0.0309	0.0618	EPA 6010C	06/27/13 11:13	ACV	
Cadmium [7440-43-9] ^	<0.0618	U	mg/kg dry	1	0.0222	0.0618	0.124	EPA 6010C	06/27/13 11:13	ACV	
Calcium [7440-70-2] ^	**1230**		mg/kg dry	1	1.61	15.4	30.9	EPA 6010C	06/27/13 11:13	ACV	
Chromium [7440-47-3] ^	**21.5**		mg/kg dry	1	0.0445	0.309	0.618	EPA 6010C	06/27/13 11:13	ACV	
Cobalt [7440-48-4] ^	**3.28**		mg/kg dry	1	0.0432	0.309	0.618	EPA 6010C	06/27/13 11:13	ACV	
Copper [7440-50-8] ^	**9.56**		mg/kg dry	1	0.0976	0.309	0.618	EPA 6010C	06/27/13 11:13	ACV	
Iron [7439-89-6] ^	**7540**		mg/kg dry	1	2.10	3.09	6.18	EPA 6010C	06/27/13 11:13	ACV	
Lead [7439-92-1] ^	**7.82**		mg/kg dry	1	0.136	1.24	2.47	EPA 6010C	06/27/13 11:13	ACV	
Magnesium [7439-95-4] ^	**2150**		mg/kg dry	1	1.06	15.4	30.9	EPA 6010C	06/27/13 11:13	ACV	
Manganese [7439-96-5] ^	**77.6**		mg/kg dry	1	0.0136	0.618	1.24	EPA 6010C	06/27/13 11:13	ACV	
Nickel [7440-02-0] ^	**10.3**		mg/kg dry	1	0.0420	0.309	0.618	EPA 6010C	06/27/13 11:13	ACV	
Potassium [7440-09-7] ^	**772**		mg/kg dry	1	6.05	30.9	61.8	EPA 6010C	06/27/13 11:13	ACV	
Selenium [7782-49-2] ^	<1.24	U	mg/kg dry	1	0.395	1.24	2.47	EPA 6010C	06/27/13 11:13	ACV	
Silver [7440-22-4] ^	<0.309	U	mg/kg dry	1	0.114	0.309	0.618	EPA 6010C	06/27/13 11:13	ACV	
Sodium [7440-23-5] ^	**61.8**		mg/kg dry	1	3.71	15.4	30.9	EPA 6010C	06/27/13 11:13	ACV	
Thallium [7440-28-0] ^	<1.24	U	mg/kg dry	1	0.284	1.24	2.47	EPA 6010C	06/27/13 11:13	ACV	
Vanadium [7440-62-2] ^	**18.5**		mg/kg dry	1	0.0482	0.618	1.24	EPA 6010C	06/27/13 11:13	ACV	
Zinc [7440-66-6] ^	**26.7**		mg/kg dry	1	0.259	0.618	1.24	EPA 6010C	06/27/13 11:13	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB02-0.5-1-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-21
Sampled: 06/19/13 14:15
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 86.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,1,2-Trichloroethane [79-00-5] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,1-Dichloroethane [75-34-3] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,1-Dichloroethene [75-35-4] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<0.8	U	ug/kg dry	1	0.8	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<0.8	U	ug/kg dry	1	0.7	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,2-Dibromoethane [106-93-4] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,2-Dichlorobenzene [95-50-1] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,2-Dichloroethane [107-06-2] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,2-Dichloropropane [78-87-5] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,3-Dichlorobenzene [541-73-1] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,4-Dichlorobenzene [106-46-7] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
1,4-Dioxane [123-91-1] ^	<42	U	ug/kg dry	1	4.7	42	85	EPA 8260B	06/27/13 23:44	kat	
2-Butanone [78-93-3] ^	<2.1	U	ug/kg dry	1	1.5	2.1	4.2	EPA 8260B	06/27/13 23:44	kat	
2-Hexanone [591-78-6] ^	<2.1	U	ug/kg dry	1	0.8	2.1	4.2	EPA 8260B	06/27/13 23:44	kat	
4-Methyl-2-pentanone [108-10-1] ^	<2.1	U	ug/kg dry	1	1.2	2.1	4.2	EPA 8260B	06/27/13 23:44	kat	
Acetone [67-64-1] ^	<11	U	ug/kg dry	1	1.4	11	21	EPA 8260B	06/27/13 23:44	kat	
Benzene [71-43-2] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Bromochloromethane [74-97-5] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Bromodichloromethane [75-27-4] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Bromoform [75-25-2] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Bromomethane [74-83-9] ^	<4.2	U	ug/kg dry	1	0.8	4.2	8.5	EPA 8260B	06/27/13 23:44	kat	
Carbon disulfide [75-15-0] ^	<4.2	U	ug/kg dry	1	1.8	4.2	8.5	EPA 8260B	06/27/13 23:44	kat	
Carbon Tetrachloride [56-23-5] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Chlorobenzene [108-90-7] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Chloroethane [75-00-3] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Chloroform [67-66-3] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Chloromethane [74-87-3] ^	<0.8	U	ug/kg dry	1	0.6	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Cyclohexane [110-82-7] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Dibromochloromethane [124-48-1] ^	<0.8	U	ug/kg dry	1	0.2	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Dichlorodifluoromethane [75-71-8] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Ethylbenzene [100-41-4] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Freon 113 [76-13-1] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Isopropylbenzene [98-82-8] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	<1.7	U	ug/kg dry	1	0.8	1.7	3.4	EPA 8260B	06/27/13 23:44	kat	
Methyl acetate [79-20-9] ^	<4.2	U	ug/kg dry	1	1.4	4.2	8.5	EPA 8260B	06/27/13 23:44	kat	
Methyl cyclohexane [108-87-2] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Methylene Chloride [75-09-2] ^	<4.2	U	ug/kg dry	1	0.6	4.2	8.5	EPA 8260B	06/27/13 23:44	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<0.8	U	ug/kg dry	1	0.2	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
o-Xylene [95-47-6] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Styrene [100-42-5] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Tetrachloroethene [127-18-4] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Toluene [108-88-3] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<0.8	U	ug/kg dry	1	0.6	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<0.8	U	ug/kg dry	1	0.3	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Trichlorofluoromethane [75-69-4] ^	<0.8	U	ug/kg dry	1	0.5	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Vinyl chloride [75-01-4] ^	<0.8	U	ug/kg dry	1	0.4	0.8	1.7	EPA 8260B	06/27/13 23:44	kat	
Xylenes (Total) [1330-20-7] ^	<1.7	U	ug/kg dry	1	0.8	1.7	3.4	EPA 8260B	06/27/13 23:44	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*42.4*	*99 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/27/13 23:44*	*kat*	
Dibromofluoromethane	*44*	*1*	*42.4*	*104 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/27/13 23:44*	*kat*	
Toluene-d8	*44*	*1*	*42.4*	*104 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/27/13 23:44*	*kat*	

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/27/13 23:44	kat	

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Description: TR-2ND-SB02-0.5-1-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-21
Sampled: 06/19/13 14:15
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 86.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<120	U	ug/kg dry	1	110	120	380	EPA 8270D	07/07/13 17:06	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<120	UQ	ug/kg dry	1	80	120	380	EPA 8270D	07/07/13 17:06	jfi	QL-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<230	U	ug/kg dry	1	86	230	380	EPA 8270D	07/07/13 17:06	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<120	U	ug/kg dry	1	67	120	380	EPA 8270D	07/07/13 17:06	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<120	U	ug/kg dry	1	70	120	380	EPA 8270D	07/07/13 17:06	jfi	
2,4-Dichlorophenol [120-83-2] ^	<120	U	ug/kg dry	1	82	120	380	EPA 8270D	07/07/13 17:06	jfi	
2,4-Dimethylphenol [105-67-9] ^	<120	U	ug/kg dry	1	86	120	380	EPA 8270D	07/07/13 17:06	jfi	
2,4-Dinitrophenol [51-28-5] ^	<350	U	ug/kg dry	1	140	350	380	EPA 8270D	07/07/13 17:06	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<120	U	ug/kg dry	1	84	120	380	EPA 8270D	07/07/13 17:06	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<120	U	ug/kg dry	1	80	120	380	EPA 8270D	07/07/13 17:06	jfi	
2-Chloronaphthalene [91-58-7] ^	<120	U	ug/kg dry	1	75	120	380	EPA 8270D	07/07/13 17:06	jfi	
2-Chlorophenol [95-57-8] ^	<120	U	ug/kg dry	1	95	120	380	EPA 8270D	07/07/13 17:06	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<350	U	ug/kg dry	1	150	350	380	EPA 8270D	07/07/13 17:06	jfi	
2-Methylphenol [95-48-7] ^	<120	U	ug/kg dry	1	81	120	380	EPA 8270D	07/07/13 17:06	jfi	
2-Nitroaniline [88-74-4] ^	<120	U	ug/kg dry	1	78	120	380	EPA 8270D	07/07/13 17:06	jfi	
2-Nitrophenol [88-75-5] ^	<120	U	ug/kg dry	1	91	120	380	EPA 8270D	07/07/13 17:06	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<230	U	ug/kg dry	1	190	230	380	EPA 8270D	07/07/13 17:06	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<120	U	ug/kg dry	1	110	120	380	EPA 8270D	07/07/13 17:06	jfi	
3-Nitroaniline [99-09-2] ^	<120	U	ug/kg dry	1	86	120	380	EPA 8270D	07/07/13 17:06	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<120	U	ug/kg dry	1	85	120	380	EPA 8270D	07/07/13 17:06	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<120	U	ug/kg dry	1	78	120	380	EPA 8270D	07/07/13 17:06	jfi	
4-Chloroaniline [106-47-8] ^	<120	U	ug/kg dry	1	110	120	380	EPA 8270D	07/07/13 17:06	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<120	U	ug/kg dry	1	78	120	380	EPA 8270D	07/07/13 17:06	jfi	
4-Nitroaniline [100-01-6] ^	<120	U	ug/kg dry	1	95	120	380	EPA 8270D	07/07/13 17:06	jfi	
4-Nitrophenol [100-02-7] ^	<120	U	ug/kg dry	1	95	120	380	EPA 8270D	07/07/13 17:06	jfi	
Acetophenone [98-86-2] ^	<120	U	ug/kg dry	1	96	120	380	EPA 8270D	07/07/13 17:06	jfi	
Atrazine [1912-24-9] ^	<120	U	ug/kg dry	1	86	120	380	EPA 8270D	07/07/13 17:06	jfi	
Benzaldehyde [100-52-7] ^	<120	U	ug/kg dry	1	110	120	380	EPA 8270D	07/07/13 17:06	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<120	U	ug/kg dry	1	74	120	380	EPA 8270D	07/07/13 17:06	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<120	U	ug/kg dry	1	110	120	380	EPA 8270D	07/07/13 17:06	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<120	U	ug/kg dry	1	95	120	380	EPA 8270D	07/07/13 17:06	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<120	U	ug/kg dry	1	99	120	380	EPA 8270D	07/07/13 17:06	jfi	
Butylbenzylphthalate [85-68-7] ^	<120	U	ug/kg dry	1	110	120	380	EPA 8270D	07/07/13 17:06	jfi	
Caprolactam [105-60-2] ^	<230	U	ug/kg dry	1	120	230	380	EPA 8270D	07/07/13 17:06	jfi	
Carbazole [86-74-8] ^	<120	U	ug/kg dry	1	79	120	380	EPA 8270D	07/07/13 17:06	jfi	
Dibenzofuran [132-64-9] ^	<120	U	ug/kg dry	1	77	120	380	EPA 8270D	07/07/13 17:06	jfi	
Diethylphthalate [84-66-2] ^	<120	U	ug/kg dry	1	87	120	380	EPA 8270D	07/07/13 17:06	jfi	
Dimethylphthalate [131-11-3] ^	<120	U	ug/kg dry	1	72	120	380	EPA 8270D	07/07/13 17:06	jfi	
Di-n-butylphthalate [84-74-2] ^	<120	U	ug/kg dry	1	92	120	380	EPA 8270D	07/07/13 17:06	jfi	
Di-n-octylphthalate [117-84-0] ^	<120	U	ug/kg dry	1	78	120	380	EPA 8270D	07/07/13 17:06	jfi	
Hexachlorobenzene [118-74-1] ^	<120	U	ug/kg dry	1	94	120	380	EPA 8270D	07/07/13 17:06	jfi	
Hexachlorobutadiene [87-68-3] ^	<120	U	ug/kg dry	1	93	120	380	EPA 8270D	07/07/13 17:06	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<120	U	ug/kg dry	1	110	120	380	EPA 8270D	07/07/13 17:06	jfi	
Hexachloroethane [67-72-1] ^	<120	U	ug/kg dry	1	86	120	380	EPA 8270D	07/07/13 17:06	jfi	
Isophorone [78-59-1] ^	<120	U	ug/kg dry	1	84	120	380	EPA 8270D	07/07/13 17:06	jfi	
Nitrobenzene [98-95-3] ^	<120	U	ug/kg dry	1	92	120	380	EPA 8270D	07/07/13 17:06	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<120	U	ug/kg dry	1	100	120	380	EPA 8270D	07/07/13 17:06	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<230	U	ug/kg dry	1	160	230	380	EPA 8270D	07/07/13 17:06	jfi	
Pentachlorophenol [87-86-5] ^	<350	U	ug/kg dry	1	160	350	380	EPA 8270D	07/07/13 17:06	jfi	

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Phenol [108-95-2] ^	<120	U	ug/kg dry	1	88	120	380	EPA 8270D	07/07/13 17:06	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2100*	*1*	*1940*	*108 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 17:06*	*jfi*	
2-Fluorobiphenyl	*1700*	*1*	*1940*	*89 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 17:06*	*jfi*	
2-Fluorophenol	*1800*	*1*	*1940*	*95 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 17:06*	*jfi*	
Nitrobenzene-d5	*1800*	*1*	*1940*	*92 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 17:06*	*jfi*	
Phenol-d5	*2000*	*1*	*1940*	*104 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 17:06*	*jfi*	*QS-03*
Terphenyl-d14	*2500*	*1*	*1940*	*128 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 17:06*	*jfi*	*QS-03*

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Erucylamide [000112-84-5]	**1100**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
Tentatively Identified Compounds [NA]	0	U	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
unknown (01) [NA]	**210**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
unknown (02) [NA]	**160**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
unknown (03) [NA]	**400**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
unknown (04) [NA]	**280**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
unknown (05) [NA]	**320**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
unknown (06) [NA]	**550**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	
unknown (07) [NA]	**380**	J	ug/kg dry	1				EPA 8270D	07/07/13 17:06	jfi	

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	<29	U	ug/kg dry	1	21	29	41	EPA 8270D	07/03/13 18:47	jfi	
Acenaphthene [83-32-9] ^	<29	U	ug/kg dry	1	17	29	41	EPA 8270D	07/03/13 18:47	jfi	
Acenaphthylene [208-96-8] ^	<29	U	ug/kg dry	1	21	29	41	EPA 8270D	07/03/13 18:47	jfi	
Anthracene [120-12-7] ^	<29	U	ug/kg dry	1	16	29	41	EPA 8270D	07/03/13 18:47	jfi	
Benzo(a)anthracene [56-55-3] ^	<29	U	ug/kg dry	1	16	29	41	EPA 8270D	07/03/13 18:47	jfi	
Benzo(a)pyrene [50-32-8] ^	<29	U	ug/kg dry	1	17	29	41	EPA 8270D	07/03/13 18:47	jfi	
Benzo(b)fluoranthene [205-99-2] ^	<29	U	ug/kg dry	1	20	29	41	EPA 8270D	07/03/13 18:47	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	<29	U	ug/kg dry	1	17	29	41	EPA 8270D	07/03/13 18:47	jfi	
Benzo(k)fluoranthene [207-08-9] ^	<29	U	ug/kg dry	1	22	29	41	EPA 8270D	07/03/13 18:47	jfi	
Chrysene [218-01-9] ^	<29	U	ug/kg dry	1	14	29	41	EPA 8270D	07/03/13 18:47	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<29	U	ug/kg dry	1	19	29	41	EPA 8270D	07/03/13 18:47	jfi	
Fluoranthene [206-44-0] ^	<29	U	ug/kg dry	1	20	29	41	EPA 8270D	07/03/13 18:47	jfi	
Fluorene [86-73-7] ^	<29	U	ug/kg dry	1	20	29	41	EPA 8270D	07/03/13 18:47	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	<29	U	ug/kg dry	1	17	29	41	EPA 8270D	07/03/13 18:47	jfi	
Naphthalene [91-20-3] ^	<29	U	ug/kg dry	1	21	29	41	EPA 8270D	07/03/13 18:47	jfi	
Phenanthrene [85-01-8] ^	<29	U	ug/kg dry	1	17	29	41	EPA 8270D	07/03/13 18:47	jfi	
Pyrene [129-00-0] ^	<29	U	ug/kg dry	1	19	29	41	EPA 8270D	07/03/13 18:47	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1700*	*1*	*2320*	*72 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 18:47*	*jfi*	

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
4,4'-DDD [72-54-8] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.60	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
4,4'-DDE [72-55-9] ^	<1.2	U	ug/kg dry	1	0.60	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.77	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
4,4'-DDT [50-29-3] ^	<1.2	U	ug/kg dry	1	0.77	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Aldrin [309-00-2] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.65	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
alpha-BHC [319-84-6] ^	<1.2	U	ug/kg dry	1	0.65	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
beta-BHC [319-85-7] ^	<1.2	U	ug/kg dry	1	1.2	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Chlordane-alpha [5103-71-9] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Chlordane-gamma [5566-34-7] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
delta-BHC [319-86-8] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Dieldrin [60-57-1] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.45	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Endosulfan I [959-98-8] ^	<1.2	U	ug/kg dry	1	0.45	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Endosulfan II [33213-65-9] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Endosulfan sulfate [1031-07-8] ^	<1.2	U	ug/kg dry	1	0.57	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.86	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Endrin [72-20-8] ^	<1.2	U	ug/kg dry	1	0.86	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	0.96	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Endrin aldehyde [7421-93-4] ^	<1.2	U	ug/kg dry	1	0.96	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Endrin ketone [53494-70-5] ^	<1.2	U	ug/kg dry	1	0.52	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
gamma-BHC [58-89-9] ^	<1.2	U	ug/kg dry	1	0.58	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.72	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Heptachlor [76-44-8] ^	<1.2	U	ug/kg dry	1	0.72	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Heptachlor epoxide [1024-57-3] ^	<1.2	U	ug/kg dry	1	0.56	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.0	EPA 8081B	06/26/13 20:21	RC	
Methoxychlor [72-43-5] ^	<1.2	U	ug/kg dry	1	1.0	1.2	2.0	EPA 8081B	06/29/13 15:01	RC	
Toxaphene [8001-35-2]	<23	U	ug/kg dry	1	12	23	38	EPA 8081B	06/26/13 20:21	RC	
Toxaphene [8001-35-2]	<23	U	ug/kg dry	1	12	23	38	EPA 8081B	06/29/13 15:01	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*17*	*1*	*38.6*	*44 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 20:21*	*RC*	*QS-03*
2,4,5,6-TCMX	*32*	*1*	*38.7*	*83 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 15:01*	*RC*	
Decachlorobiphenyl	*12*	*1*	*38.6*	*32 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 20:21*	*RC*	*QS-03*
Decachlorobiphenyl	*23*	*1*	*38.7*	*59 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 15:01*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<23	U	ug/kg dry	1	16	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<23	U	ug/kg dry	1	16	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1221 [11104-28-2] ^	<23	U	ug/kg dry	1	16	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1232 [11141-16-5] ^	<23	U	ug/kg dry	1	16	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1242 [53469-21-9] ^	<23	U	ug/kg dry	1	12	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1248 [12672-29-6] ^	<23	U	ug/kg dry	1	7.3	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1254 [11097-69-1] ^	<23	U	ug/kg dry	1	17	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1260 [11096-82-5] ^	<23	U	ug/kg dry	1	13	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1262 [37324-23-5] ^	<23	U	ug/kg dry	1	16	23	46	EPA 8082A	06/27/13 17:31	RC	
PCB-1268 [11100-14-4] ^	<23	U	ug/kg dry	1	12	23	46	EPA 8082A	06/27/13 17:31	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*21*	*1*	*38.6*	*55 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 17:31*	*RC*	
Decachlorobiphenyl	*27*	*1*	*38.6*	*69 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 17:31*	*RC*	

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.0376**		mg/kg dry	1	0.00400	0.00584	0.0102	EPA 7471B	06/21/13 09:19	IR	

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Description:	TR-2ND-SB02-0.5-1-0613	**Lab Sample ID:**	A303499-21	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:15	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	86.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**15600**		mg/kg dry	1	3.20	13.3	26.7	EPA 6010C	06/27/13 11:14	ACV	
Antimony [7440-36-0] ^	<1.33	U	mg/kg dry	1	0.654	1.33	2.67	EPA 6010C	06/27/13 11:14	ACV	
Arsenic [7440-38-2] ^	**3.53**		mg/kg dry	1	0.374	1.33	2.67	EPA 6010C	06/27/13 11:14	ACV	
Barium [7440-39-3] ^	**51.6**		mg/kg dry	1	0.0294	0.334	0.667	EPA 6010C	06/27/13 11:14	ACV	
Beryllium [7440-41-7] ^	**0.384**		mg/kg dry	1	0.00814	0.0334	0.0667	EPA 6010C	06/27/13 11:14	ACV	
Cadmium [7440-43-9] ^	<0.0667	U	mg/kg dry	1	0.0240	0.0667	0.133	EPA 6010C	06/27/13 11:14	ACV	
Calcium [7440-70-2] ^	**1260**		mg/kg dry	1	1.74	16.7	33.4	EPA 6010C	06/27/13 11:14	ACV	
Chromium [7440-47-3] ^	**24.6**		mg/kg dry	1	0.0481	0.334	0.667	EPA 6010C	06/27/13 11:14	ACV	
Cobalt [7440-48-4] ^	**3.59**		mg/kg dry	1	0.0467	0.334	0.667	EPA 6010C	06/27/13 11:14	ACV	
Copper [7440-50-8] ^	**7.17**		mg/kg dry	1	0.105	0.334	0.667	EPA 6010C	06/27/13 11:14	ACV	
Iron [7439-89-6] ^	**9210**		mg/kg dry	1	2.27	3.34	6.67	EPA 6010C	06/27/13 11:14	ACV	
Lead [7439-92-1] ^	**7.70**		mg/kg dry	1	0.147	1.33	2.67	EPA 6010C	06/27/13 11:14	ACV	
Magnesium [7439-95-4] ^	**2010**		mg/kg dry	1	1.14	16.7	33.4	EPA 6010C	06/27/13 11:14	ACV	
Manganese [7439-96-5] ^	**77.7**		mg/kg dry	1	0.0147	0.667	1.33	EPA 6010C	06/27/13 11:14	ACV	
Nickel [7440-02-0] ^	**9.60**		mg/kg dry	1	0.0454	0.334	0.667	EPA 6010C	06/27/13 11:14	ACV	
Potassium [7440-09-7] ^	**707**		mg/kg dry	1	6.54	33.4	66.7	EPA 6010C	06/27/13 11:14	ACV	
Selenium [7782-49-2] ^	<1.33	U	mg/kg dry	1	0.427	1.33	2.67	EPA 6010C	06/27/13 11:14	ACV	
Silver [7440-22-4] ^	<0.334	U	mg/kg dry	1	0.123	0.334	0.667	EPA 6010C	06/27/13 11:14	ACV	
Sodium [7440-23-5] ^	**59.1**		mg/kg dry	1	4.00	16.7	33.4	EPA 6010C	06/27/13 11:14	ACV	
Thallium [7440-28-0] ^	**0.863**	J	mg/kg dry	1	0.307	1.33	2.67	EPA 6010C	06/27/13 11:14	ACV	
Vanadium [7440-62-2] ^	**25.1**		mg/kg dry	1	0.0521	0.667	1.33	EPA 6010C	06/27/13 11:14	ACV	
Zinc [7440-66-6] ^	**22.8**		mg/kg dry	1	0.280	0.667	1.33	EPA 6010C	06/27/13 11:14	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: TR-2ND-SB02-06-08-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-22
Sampled: 06/19/13 14:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 72.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,1,2-Trichloroethane [79-00-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,1-Dichloroethane [75-34-3] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,1-Dichloroethene [75-35-4] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	<1.2	U	ug/kg dry	1	1.1	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,2-Dibromoethane [106-93-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,2-Dichlorobenzene [95-50-1] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,2-Dichloroethane [107-06-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,2-Dichloropropane [78-87-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,3-Dichlorobenzene [541-73-1] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,4-Dichlorobenzene [106-46-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
1,4-Dioxane [123-91-1] ^	<62	U	ug/kg dry	1	6.9	62	120	EPA 8260B	06/28/13 00:17	kat	
2-Butanone [78-93-3] ^	**15**		ug/kg dry	1	2.2	3.1	6.2	EPA 8260B	06/28/13 00:17	kat	
2-Hexanone [591-78-6] ^	<3.1	U	ug/kg dry	1	1.1	3.1	6.2	EPA 8260B	06/28/13 00:17	kat	
4-Methyl-2-pentanone [108-10-1] ^	<3.1	U	ug/kg dry	1	1.7	3.1	6.2	EPA 8260B	06/28/13 00:17	kat	
Acetone [67-64-1] ^	**73**		ug/kg dry	1	2.1	16	31	EPA 8260B	06/28/13 00:17	kat	
Benzene [71-43-2] ^	**2.2**	J	ug/kg dry	1	0.5	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Bromochloromethane [74-97-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Bromodichloromethane [75-27-4] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Bromoform [75-25-2] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Bromomethane [74-83-9] ^	<6.2	U	ug/kg dry	1	1.1	6.2	12	EPA 8260B	06/28/13 00:17	kat	
Carbon disulfide [75-15-0] ^	<6.2	U	ug/kg dry	1	2.6	6.2	12	EPA 8260B	06/28/13 00:17	kat	
Carbon Tetrachloride [56-23-5] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Chlorobenzene [108-90-7] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Chloroethane [75-00-3] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Chloroform [67-66-3] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Chloromethane [74-87-3] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
cis-1,2-Dichloroethene [156-59-2] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Cyclohexane [110-82-7] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Dibromochloromethane [124-48-1] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Dichlorodifluoromethane [75-71-8] ^	<1.2	U	ug/kg dry	1	0.8	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Ethylbenzene [100-41-4] ^	**3.2**		ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Freon 113 [76-13-1] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Isopropylbenzene [98-82-8] ^	**1.7**	J	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	**6.5**		ug/kg dry	1	1.2	2.5	5.0	EPA 8260B	06/28/13 00:17	kat	
Methyl acetate [79-20-9] ^	<6.2	U	ug/kg dry	1	2.0	6.2	12	EPA 8260B	06/28/13 00:17	kat	
Methyl cyclohexane [108-87-2] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Methylene Chloride [75-09-2] ^	<6.2	U	ug/kg dry	1	0.9	6.2	12	EPA 8260B	06/28/13 00:17	kat	
Methyl-tert-Butyl Ether [1634-04-4] ^	<1.2	U	ug/kg dry	1	0.3	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
o-Xylene [95-47-6] ^	**5.7**		ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Styrene [100-42-5] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Tetrachloroethene [127-18-4] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Toluene [108-88-3] ^	**1.4**	J	ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
trans-1,2-Dichloroethene [156-60-5] ^	<1.2	U	ug/kg dry	1	0.9	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	<1.2	U	ug/kg dry	1	0.4	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	<1.2	U	ug/kg dry	1	0.6	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Trichlorofluoromethane [75-69-4] ^	<1.2	U	ug/kg dry	1	0.7	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Vinyl chloride [75-01-4] ^	<1.2	U	ug/kg dry	1	0.5	1.2	2.5	EPA 8260B	06/28/13 00:17	kat	
Xylenes (Total) [1330-20-7] ^	**12**		ug/kg dry	1	1.2	2.5	5.0	EPA 8260B	06/28/13 00:17	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*62.3*	*87 %*	*85-120*	*3F27024*	*EPA 8260B*	*06/28/13 00:17*	*kat*	
Dibromofluoromethane	*56*	*1*	*62.3*	*90 %*	*74-133*	*3F27024*	*EPA 8260B*	*06/28/13 00:17*	*kat*	
Toluene-d8	*57*	*1*	*62.3*	*92 %*	*85-115*	*3F27024*	*EPA 8260B*	*06/28/13 00:17*	*kat*	

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Propenal, 3-phenyl- [000104-55-2]	**7.9**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Benzene, 1-ethyl-3-methyl- [000620-14-4]	**7.1**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Benzo[c]thiophene [000270-82-6]	**19**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Benzofuran, 2-methyl- [004265-25-2]	**10**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Indan, 1-methyl- (01) [000767-58-8]	**6.6**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Indan, 1-methyl- (02) [000767-58-8]	**12**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Indan, 1-methyl- (03) [000767-58-8]	**21**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Indane [000496-11-7]	**110**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Indene [000095-13-6]	**7.3**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Methane, chlorodifluoro- [000075-45-6]	**10**	J	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	
Tentatively Identified Compounds [NA]	0.0	U	ug/kg dry	1				EPA 8260B	06/28/13 00:17	kat	

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Description: TR-2ND-SB02-06-08-0613
Matrix: Soil
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Lab Sample ID: A303499-22
Sampled: 06/19/13 14:30
Sampled By: Toby Stewart/Nate Price

Received: 06/20/13 09:20
Work Order: A303499
% Solids: 72.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4] ^	<280	UD	ug/kg dry	2	260	280	910	EPA 8270D	07/07/13 17:34	jfi	
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	<280	UDQ	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	QL-02, R-01
2,3,4,6-Tetrachlorophenol [58-90-2] ^	<550	UD	ug/kg dry	2	210	550	910	EPA 8270D	07/07/13 17:34	jfi	
2,4,5-Trichlorophenol [95-95-4] ^	<280	UD	ug/kg dry	2	160	280	910	EPA 8270D	07/07/13 17:34	jfi	
2,4,6-Trichlorophenol [88-06-2] ^	<280	UD	ug/kg dry	2	170	280	910	EPA 8270D	07/07/13 17:34	jfi	
2,4-Dichlorophenol [120-83-2] ^	<280	UD	ug/kg dry	2	200	280	910	EPA 8270D	07/07/13 17:34	jfi	
2,4-Dimethylphenol [105-67-9] ^	<280	UD	ug/kg dry	2	210	280	910	EPA 8270D	07/07/13 17:34	jfi	
2,4-Dinitrophenol [51-28-5] ^	<830	UD	ug/kg dry	2	330	830	910	EPA 8270D	07/07/13 17:34	jfi	
2,4-Dinitrotoluene [121-14-2] ^	<280	UD	ug/kg dry	2	200	280	910	EPA 8270D	07/07/13 17:34	jfi	
2,6-Dinitrotoluene [606-20-2] ^	<280	UD	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	
2-Chloronaphthalene [91-58-7] ^	<280	UD	ug/kg dry	2	180	280	910	EPA 8270D	07/07/13 17:34	jfi	
2-Chlorophenol [95-57-8] ^	<280	UD	ug/kg dry	2	230	280	910	EPA 8270D	07/07/13 17:34	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	<830	UD	ug/kg dry	2	360	830	910	EPA 8270D	07/07/13 17:34	jfi	
2-Methylphenol [95-48-7] ^	<280	UD	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	
2-Nitroaniline [88-74-4] ^	<280	UD	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	
2-Nitrophenol [88-75-5] ^	<280	UD	ug/kg dry	2	220	280	910	EPA 8270D	07/07/13 17:34	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	<550	UD	ug/kg dry	2	440	550	910	EPA 8270D	07/07/13 17:34	jfi	
3,3'-Dichlorobenzidine [91-94-1] ^	<280	UD	ug/kg dry	2	250	280	910	EPA 8270D	07/07/13 17:34	jfi	
3-Nitroaniline [99-09-2] ^	<280	UD	ug/kg dry	2	210	280	910	EPA 8270D	07/07/13 17:34	jfi	
4-Bromophenyl-phenylether [101-55-3] ^	<280	UD	ug/kg dry	2	200	280	910	EPA 8270D	07/07/13 17:34	jfi	
4-Chloro-3-methylphenol [59-50-7] ^	<280	UD	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	
4-Chloroaniline [106-47-8] ^	<280	UD	ug/kg dry	2	260	280	910	EPA 8270D	07/07/13 17:34	jfi	
4-Chlorophenyl-phenylether [7005-72-3] ^	<280	UD	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	
4-Nitroaniline [100-01-6] ^	<280	UD	ug/kg dry	2	230	280	910	EPA 8270D	07/07/13 17:34	jfi	
4-Nitrophenol [100-02-7] ^	<280	UD	ug/kg dry	2	230	280	910	EPA 8270D	07/07/13 17:34	jfi	
Acetophenone [98-86-2] ^	<280	UD	ug/kg dry	2	230	280	910	EPA 8270D	07/07/13 17:34	jfi	
Atrazine [1912-24-9] ^	<280	UD	ug/kg dry	2	210	280	910	EPA 8270D	07/07/13 17:34	jfi	
Benzaldehyde [100-52-7] ^	<280	UD	ug/kg dry	2	270	280	910	EPA 8270D	07/07/13 17:34	jfi	
Bis(2-chloroethoxy)methane [111-91-1] ^	<280	UD	ug/kg dry	2	180	280	910	EPA 8270D	07/07/13 17:34	jfi	
Bis(2-chloroethyl)ether [111-44-4] ^	<280	UD	ug/kg dry	2	260	280	910	EPA 8270D	07/07/13 17:34	jfi	
Bis(2-chloroisopropyl)ether [108-60-1] ^	<280	UD	ug/kg dry	2	230	280	910	EPA 8270D	07/07/13 17:34	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	<280	UD	ug/kg dry	2	240	280	910	EPA 8270D	07/07/13 17:34	jfi	
Butylbenzylphthalate [85-68-7] ^	<280	UD	ug/kg dry	2	260	280	910	EPA 8270D	07/07/13 17:34	jfi	
Caprolactam [105-60-2] ^	<550	UD	ug/kg dry	2	280	550	910	EPA 8270D	07/07/13 17:34	jfi	
Carbazole [86-74-8] ^	<280	UD	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	
Dibenzofuran [132-64-9] ^	**460**	JD	ug/kg dry	2	180	280	910	EPA 8270D	07/07/13 17:34	jfi	
Diethylphthalate [84-66-2] ^	<280	UD	ug/kg dry	2	210	280	910	EPA 8270D	07/07/13 17:34	jfi	
Dimethylphthalate [131-11-3] ^	<280	UD	ug/kg dry	2	170	280	910	EPA 8270D	07/07/13 17:34	jfi	
Di-n-butylphthalate [84-74-2] ^	<280	UD	ug/kg dry	2	220	280	910	EPA 8270D	07/07/13 17:34	jfi	
Di-n-octylphthalate [117-84-0] ^	<280	UD	ug/kg dry	2	190	280	910	EPA 8270D	07/07/13 17:34	jfi	
Hexachlorobenzene [118-74-1] ^	<280	UD	ug/kg dry	2	220	280	910	EPA 8270D	07/07/13 17:34	jfi	
Hexachlorobutadiene [87-68-3] ^	<280	UD	ug/kg dry	2	220	280	910	EPA 8270D	07/07/13 17:34	jfi	
Hexachlorocyclopentadiene [77-47-4] ^	<280	UD	ug/kg dry	2	260	280	910	EPA 8270D	07/07/13 17:34	jfi	
Hexachloroethane [67-72-1] ^	<280	UD	ug/kg dry	2	210	280	910	EPA 8270D	07/07/13 17:34	jfi	
Isophorone [78-59-1] ^	<280	UD	ug/kg dry	2	200	280	910	EPA 8270D	07/07/13 17:34	jfi	
Nitrobenzene [98-95-3] ^	<280	UD	ug/kg dry	2	220	280	910	EPA 8270D	07/07/13 17:34	jfi	
N-Nitroso-di-n-propylamine [621-64-7] ^	<280	UD	ug/kg dry	2	250	280	910	EPA 8270D	07/07/13 17:34	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	<550	UD	ug/kg dry	2	390	550	910	EPA 8270D	07/07/13 17:34	jfi	

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Pentachlorophenol [87-86-5] ^	<830	UD	ug/kg dry	2	390	830	910	EPA 8270D	07/07/13 17:34	jfi	
Phenol [108-95-2] ^	<280	UD	ug/kg dry	2	210	280	910	EPA 8270D	07/07/13 17:34	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*1900*	*2*	*2310*	*81 %*	*35-125*	*3F21017*	*EPA 8270D*	*07/07/13 17:34*	*jfi*	
2-Fluorobiphenyl	*1200*	*2*	*2310*	*51 %*	*45-105*	*3F21017*	*EPA 8270D*	*07/07/13 17:34*	*jfi*	
2-Fluorophenol	*1300*	*2*	*2310*	*57 %*	*35-105*	*3F21017*	*EPA 8270D*	*07/07/13 17:34*	*jfi*	
Nitrobenzene-d5	*1400*	*2*	*2310*	*60 %*	*35-100*	*3F21017*	*EPA 8270D*	*07/07/13 17:34*	*jfi*	
Phenol-d5	*1700*	*2*	*2310*	*72 %*	*40-100*	*3F21017*	*EPA 8270D*	*07/07/13 17:34*	*jfi*	
Terphenyl-d14	*1700*	*2*	*2310*	*74 %*	*30-125*	*3F21017*	*EPA 8270D*	*07/07/13 17:34*	*jfi*	

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
1,1'-Biphenyl, bis(1-methyl... [069009-90-1]	**2700**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
1,4-Methanonaphthalene, 1,4... [004453-90-1]	**1100**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
11H-Benzo[b]fluorene [000243-17-4]	**520**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
1-Phenyl-4-(3,5-dimethylphe... [1000202-15-0]	**3000**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
4b,8-Dimethyl-2-isopropylph... [1000197-14-1]	**670**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
Fluoranthene [206-44-0]	**830**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
Fluorene [86-73-7]	**430**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
Indane [000496-11-7]	**380**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
Naphthalene, 1-methyl- [000090-12-0]	**530**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
Phenanthrene, 2,3,5-trimethyl- [003674-73-5]	**450**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
Pyrene [129-00-0]	**950**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
Tentatively Identified Compounds [NA]	0	UD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
unknown (01) [NA]	**430**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	
unknown (02) [NA]	**470**	JD	ug/kg dry	2				EPA 8270D	07/07/13 17:34	jfi	

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
2-Methylnaphthalene [91-57-6] ^	**770**		ug/kg dry	1	25	35	49	EPA 8270D	07/03/13 19:09	jfi	
Acenaphthene [83-32-9] ^	**360**		ug/kg dry	1	21	35	49	EPA 8270D	07/03/13 19:09	jfi	
Acenaphthylene [208-96-8] ^	<35	U	ug/kg dry	1	25	35	49	EPA 8270D	07/03/13 19:09	jfi	
Anthracene [120-12-7] ^	**340**		ug/kg dry	1	19	35	49	EPA 8270D	07/03/13 19:09	jfi	
Benzo(a)anthracene [56-55-3] ^	**420**		ug/kg dry	1	19	35	49	EPA 8270D	07/03/13 19:09	jfi	
Benzo(a)pyrene [50-32-8] ^	**190**		ug/kg dry	1	21	35	49	EPA 8270D	07/03/13 19:09	jfi	
Benzo(b)fluoranthene [205-99-2] ^	**350**		ug/kg dry	1	24	35	49	EPA 8270D	07/03/13 19:09	jfi	
Benzo(g,h,i)perylene [191-24-2] ^	**64**		ug/kg dry	1	21	35	49	EPA 8270D	07/03/13 19:09	jfi	
Benzo(k)fluoranthene [207-08-9] ^	**200**		ug/kg dry	1	26	35	49	EPA 8270D	07/03/13 19:09	jfi	
Chrysene [218-01-9] ^	**410**		ug/kg dry	1	17	35	49	EPA 8270D	07/03/13 19:09	jfi	
Dibenzo(a,h)anthracene [53-70-3] ^	<35	U	ug/kg dry	1	22	35	49	EPA 8270D	07/03/13 19:09	jfi	
Fluoranthene [206-44-0] ^	**990**		ug/kg dry	1	24	35	49	EPA 8270D	07/03/13 19:09	jfi	
Fluorene [86-73-7] ^	**400**		ug/kg dry	1	24	35	49	EPA 8270D	07/03/13 19:09	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	**64**		ug/kg dry	1	21	35	49	EPA 8270D	07/03/13 19:09	jfi	
Naphthalene [91-20-3] ^	**4100**		ug/kg dry	1	25	35	49	EPA 8270D	07/03/13 19:09	jfi	
Phenanthrene [85-01-8] ^	**1400**		ug/kg dry	1	21	35	49	EPA 8270D	07/03/13 19:09	jfi	
Pyrene [129-00-0] ^	**740**		ug/kg dry	1	22	35	49	EPA 8270D	07/03/13 19:09	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*1600*	*1*	*2770*	*58 %*	*50-150*	*3F24006*	*EPA 8270D*	*07/03/13 19:09*	*jfi*	

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	<1.4	U	ug/kg dry	1	0.67	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
4,4'-DDD [72-54-8] ^	<1.4	U	ug/kg dry	1	0.67	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
4,4'-DDE [72-55-9] ^	<1.4	U	ug/kg dry	1	0.72	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
4,4'-DDE [72-55-9] ^	<1.4	U	ug/kg dry	1	0.72	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
4,4'-DDT [50-29-3] ^	<1.4	U	ug/kg dry	1	0.91	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
4,4'-DDT [50-29-3] ^	<1.4	U	ug/kg dry	1	0.91	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Aldrin [309-00-2] ^	<1.4	U	ug/kg dry	1	0.68	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Aldrin [309-00-2] ^	<1.4	U	ug/kg dry	1	0.68	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
alpha-BHC [319-84-6] ^	<1.4	U	ug/kg dry	1	0.78	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
alpha-BHC [319-84-6] ^	<1.4	U	ug/kg dry	1	0.78	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
beta-BHC [319-85-7] ^	<1.4	U	ug/kg dry	1	1.4	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
beta-BHC [319-85-7] ^	<1.4	U	ug/kg dry	1	1.4	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Chlordane-alpha [5103-71-9] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Chlordane-alpha [5103-71-9] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Chlordane-gamma [5566-34-7] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Chlordane-gamma [5566-34-7] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
delta-BHC [319-86-8] ^	<1.4	U	ug/kg dry	1	0.69	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
delta-BHC [319-86-8] ^	**1.0**	JPQ	ug/kg dry	1	0.69	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	GC-07
Dieldrin [60-57-1] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Dieldrin [60-57-1] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Endosulfan I [959-98-8] ^	<1.4	U	ug/kg dry	1	0.54	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Endosulfan I [959-98-8] ^	<1.4	U	ug/kg dry	1	0.54	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Endosulfan II [33213-65-9] ^	<1.4	U	ug/kg dry	1	0.67	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Endosulfan II [33213-65-9] ^	<1.4	U	ug/kg dry	1	0.67	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Endosulfan sulfate [1031-07-8] ^	<1.4	U	ug/kg dry	1	0.68	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Endosulfan sulfate [1031-07-8] ^	<1.4	U	ug/kg dry	1	0.68	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Endrin [72-20-8] ^	<1.4	U	ug/kg dry	1	1.0	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Endrin [72-20-8] ^	<1.4	U	ug/kg dry	1	1.0	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Endrin aldehyde [7421-93-4] ^	<1.4	U	ug/kg dry	1	1.2	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Endrin aldehyde [7421-93-4] ^	<1.4	U	ug/kg dry	1	1.2	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Endrin ketone [53494-70-5] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Endrin ketone [53494-70-5] ^	<1.4	U	ug/kg dry	1	0.62	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
gamma-BHC [58-89-9] ^	<1.4	U	ug/kg dry	1	0.69	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
gamma-BHC [58-89-9] ^	<1.4	U	ug/kg dry	1	0.69	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Heptachlor [76-44-8] ^	<1.4	U	ug/kg dry	1	0.86	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Heptachlor [76-44-8] ^	<1.4	U	ug/kg dry	1	0.86	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Heptachlor epoxide [1024-57-3] ^	<1.4	U	ug/kg dry	1	0.67	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Heptachlor epoxide [1024-57-3] ^	<1.4	U	ug/kg dry	1	0.67	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Methoxychlor [72-43-5] ^	<1.4	U	ug/kg dry	1	1.2	1.4	2.4	EPA 8081B	06/26/13 20:33	RC	
Methoxychlor [72-43-5] ^	<1.4	U	ug/kg dry	1	1.2	1.4	2.4	EPA 8081B	06/29/13 15:13	RC	
Toxaphene [8001-35-2]	<28	U	ug/kg dry	1	14	28	46	EPA 8081B	06/26/13 20:33	RC	
Toxaphene [8001-35-2]	<28	U	ug/kg dry	1	14	28	46	EPA 8081B	06/29/13 15:13	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*10*	*1*	*45.9*	*22 %*	*70-125*	*3F24028*	*EPA 8081B*	*06/26/13 20:33*	*RC*	*QS-03*
2,4,5,6-TCMX	*24*	*1*	*45.8*	*52 %*	*70-125*	*3F28005*	*EPA 8081B*	*06/29/13 15:13*	*RC*	*QS-03*
Decachlorobiphenyl	*14*	*1*	*45.9*	*31 %*	*55-130*	*3F24028*	*EPA 8081B*	*06/26/13 20:33*	*RC*	*QS-03*
Decachlorobiphenyl	*36*	*1*	*45.8*	*79 %*	*55-130*	*3F28005*	*EPA 8081B*	*06/29/13 15:13*	*RC*	

Polychlorinated Biphenyls by GC

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
PCB-1016 [12674-11-2] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1016 [12674-11-2] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1221 [11104-28-2] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1221 [11104-28-2] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1232 [11141-16-5] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1232 [11141-16-5] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1242 [53469-21-9] ^	<28	U	ug/kg dry	1	14	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1242 [53469-21-9] ^	<28	U	ug/kg dry	1	14	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1248 [12672-29-6] ^	<28	U	ug/kg dry	1	8.7	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1248 [12672-29-6] ^	<28	U	ug/kg dry	1	8.7	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1254 [11097-69-1] ^	**760**		ug/kg dry	1	21	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1254 [11097-69-1] ^	**150**		ug/kg dry	1	21	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1260 [11096-82-5] ^	**67**		ug/kg dry	1	15	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1260 [11096-82-5] ^	**230**		ug/kg dry	1	15	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1262 [37324-23-5] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1262 [37324-23-5] ^	<28	U	ug/kg dry	1	19	28	55	EPA 8082A	07/01/13 09:57	RC	
PCB-1268 [11100-14-4] ^	<28	U	ug/kg dry	1	14	28	55	EPA 8082A	06/27/13 17:43	RC	
PCB-1268 [11100-14-4] ^	<28	U	ug/kg dry	1	14	28	55	EPA 8082A	07/01/13 09:57	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*13*	*1*	*45.9*	*28 %*	*20-137*	*3F24029*	*EPA 8082A*	*06/27/13 17:43*	*RC*	
2,4,5,6-TCMX	*33*	*1*	*46.2*	*71 %*	*20-137*	*3F28012*	*EPA 8082A*	*07/01/13 09:57*	*RC*	
Decachlorobiphenyl	*26*	*1*	*45.9*	*57 %*	*60-125*	*3F24029*	*EPA 8082A*	*06/27/13 17:43*	*RC*	*QS-03*
Decachlorobiphenyl	*38*	*1*	*46.2*	*83 %*	*60-125*	*3F28012*	*EPA 8082A*	*07/01/13 09:57*	*RC*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**2.40**	E	mg/kg dry	1	0.00541	0.00790	0.0139	EPA 7471B	06/21/13 09:23	IR	E
Mercury [7439-97-6] ^	**2.54**	D	mg/kg dry	3	0.0162	0.0237	0.0416	EPA 7471B	06/21/13 09:33	IR	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**10500**		mg/kg dry	1	3.33	13.9	27.7	EPA 6010C	06/27/13 11:15	ACV	
Antimony [7440-36-0] ^	**7.12**		mg/kg dry	1	0.679	1.39	2.77	EPA 6010C	06/27/13 11:15	ACV	
Arsenic [7440-38-2] ^	**4.92**		mg/kg dry	1	0.388	1.39	2.77	EPA 6010C	06/27/13 11:15	ACV	
Barium [7440-39-3] ^	**103**		mg/kg dry	1	0.0305	0.347	0.693	EPA 6010C	06/27/13 11:15	ACV	
Beryllium [7440-41-7] ^	**0.320**		mg/kg dry	1	0.00846	0.0347	0.0693	EPA 6010C	06/27/13 11:15	ACV	
Cadmium [7440-43-9] ^	**2.24**		mg/kg dry	1	0.0250	0.0693	0.139	EPA 6010C	06/27/13 11:15	ACV	
Calcium [7440-70-2] ^	**15900**		mg/kg dry	1	1.80	17.3	34.7	EPA 6010C	06/27/13 11:15	ACV	
Chromium [7440-47-3] ^	**21.4**		mg/kg dry	1	0.0499	0.347	0.693	EPA 6010C	06/27/13 11:15	ACV	
Cobalt [7440-48-4] ^	**6.86**		mg/kg dry	1	0.0485	0.347	0.693	EPA 6010C	06/27/13 11:15	ACV	
Copper [7440-50-8] ^	**96.8**		mg/kg dry	1	0.110	0.347	0.693	EPA 6010C	06/27/13 11:15	ACV	
Iron [7439-89-6] ^	**15200**		mg/kg dry	1	2.36	3.47	6.93	EPA 6010C	06/27/13 11:15	ACV	
Lead [7439-92-1] ^	**213**		mg/kg dry	1	0.153	1.39	2.77	EPA 6010C	06/27/13 11:15	ACV	

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Description:	TR-2ND-SB02-06-08-0613	**Lab Sample ID:**	A303499-22	**Received:**	06/20/13 09:20
Matrix:	Soil	**Sampled:**	06/19/13 14:30	**Work Order:**	A303499
Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC	**Sampled By:**	Toby Stewart/Nate Price	**% Solids:**	72.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [DOD A2LA: 3000.02]

Analyte [CAS Number]	Results	Flag	Units	DF	DL	LOD	LOQ	Method	Analyzed	By	Notes
Magnesium [7439-95-4] ^	**1620**		mg/kg dry	1	1.19	17.3	34.7	EPA 6010C	06/27/13 11:15	ACV	
Manganese [7439-96-5] ^	**267**		mg/kg dry	1	0.0153	0.693	1.39	EPA 6010C	06/27/13 11:15	ACV	
Nickel [7440-02-0] ^	**12.2**		mg/kg dry	1	0.0471	0.347	0.693	EPA 6010C	06/27/13 11:15	ACV	
Potassium [7440-09-7] ^	**968**		mg/kg dry	1	6.79	34.7	69.3	EPA 6010C	06/27/13 11:15	ACV	
Selenium [7782-49-2] ^	<1.39	U	mg/kg dry	1	0.444	1.39	2.77	EPA 6010C	06/27/13 11:15	ACV	
Silver [7440-22-4] ^	**1.01**		mg/kg dry	1	0.128	0.347	0.693	EPA 6010C	06/27/13 11:15	ACV	
Sodium [7440-23-5] ^	**220**		mg/kg dry	1	4.16	17.3	34.7	EPA 6010C	06/27/13 11:15	ACV	
Thallium [7440-28-0] ^	<1.39	U	mg/kg dry	1	0.319	1.39	2.77	EPA 6010C	06/27/13 11:15	ACV	
Vanadium [7440-62-2] ^	**19.0**		mg/kg dry	1	0.0541	0.693	1.39	EPA 6010C	06/27/13 11:15	ACV	
Zinc [7440-66-6] ^	**527**		mg/kg dry	1	0.291	0.693	1.39	EPA 6010C	06/27/13 11:15	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3F24008 - EPA 3050B

Blank (3F24008-BLK1) Prepared: 06/24/2013 09:43 Analyzed: 06/27/2013 10:35

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	<16.1	U	32.3	mg/kg wet							
Antimony	<1.61	U	3.23	mg/kg wet							
Arsenic	<1.61	U	3.23	mg/kg wet							
Barium	<0.403	U	0.806	mg/kg wet							
Beryllium	<0.0403	U	0.0806	mg/kg wet							
Cadmium	**0.0311**	**J**	0.161	mg/kg wet							
Calcium	**3.59**	**J**	40.3	mg/kg wet							
Chromium	<0.403	U	0.806	mg/kg wet							
Cobalt	<0.403	U	0.806	mg/kg wet							
Copper	<0.403	U	0.806	mg/kg wet							
Iron	<4.03	U	8.06	mg/kg wet							
Lead	<1.61	U	3.23	mg/kg wet							
Magnesium	**1.82**	**J**	40.3	mg/kg wet							
Manganese	<0.806	U	1.61	mg/kg wet							
Nickel	<0.403	U	0.806	mg/kg wet							
Potassium	**9.43**	**J**	80.6	mg/kg wet							
Selenium	<1.61	U	3.23	mg/kg wet							
Silver	<0.403	U	0.806	mg/kg wet							
Sodium	<20.2	U	40.3	mg/kg wet							
Thallium	<1.61	U	3.23	mg/kg wet							
Vanadium	<0.806	U	1.61	mg/kg wet							
Zinc	<0.806	U	1.61	mg/kg wet							

LCS (3F24008-BS1) Prepared: 06/24/2013 09:43 Analyzed: 06/27/2013 10:37

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	363		29.0	mg/kg wet	362		100	80-120			
Antimony	34.1		2.90	mg/kg wet	36.2		94	80-120			
Arsenic	34.2		2.90	mg/kg wet	36.2		94	80-120			
Barium	34.7		0.725	mg/kg wet	36.2		96	80-120			
Beryllium	3.50		0.0725	mg/kg wet	3.62		97	80-120			
Cadmium	3.53		0.145	mg/kg wet	3.62		98	80-120			
Calcium	358		36.2	mg/kg wet	362		99	80-120			
Chromium	35.5		0.725	mg/kg wet	36.2		98	80-120			
Cobalt	35.5		0.725	mg/kg wet	36.2		98	80-120			
Copper	35.9		0.725	mg/kg wet	36.2		99	80-120			
Iron	177		7.25	mg/kg wet	181		97	80-120			
Lead	35.3		2.90	mg/kg wet	36.2		98	80-120			
Magnesium	349		36.2	mg/kg wet	362		96	80-120			
Manganese	35.0		1.45	mg/kg wet	36.2		97	80-120			
Nickel	35.4		0.725	mg/kg wet	36.2		98	80-120			
Potassium	1720		72.5	mg/kg wet	1810		95	80-120			
Selenium	34.1		2.90	mg/kg wet	36.2		94	80-120			
Silver	7.13		0.725	mg/kg wet	7.25		98	80-120			
Sodium	1750		36.2	mg/kg wet	1810		96	80-120			
Thallium	35.9		2.90	mg/kg wet	36.2		99	80-120			
Vanadium	36.3		1.45	mg/kg wet	36.2		100	80-120			
Zinc	36.5		1.45	mg/kg wet	36.2		101	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3F24008 - EPA 3050B

LCS Dup (3F24008-BSD1) Prepared: 06/24/2013 09:43 Analyzed: 06/27/2013 10:39

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	361		29.4	mg/kg wet	368		98	80-120	0.4	20	
Antimony	34.5		2.94	mg/kg wet	36.8		94	80-120	1	20	
Arsenic	34.6		2.94	mg/kg wet	36.8		94	80-120	1	20	
Barium	35.0		0.735	mg/kg wet	36.8		95	80-120	0.9	20	
Beryllium	3.54		0.0735	mg/kg wet	3.68		96	80-120	1	20	
Cadmium	3.62		0.147	mg/kg wet	3.68		98	80-120	2	20	
Calcium	356		36.8	mg/kg wet	368		97	80-120	0.4	20	
Chromium	35.9		0.735	mg/kg wet	36.8		98	80-120	1	20	
Cobalt	36.0		0.735	mg/kg wet	36.8		98	80-120	2	20	
Copper	36.2		0.735	mg/kg wet	36.8		98	80-120	1	20	
Iron	178		7.35	mg/kg wet	184		97	80-120	1	20	
Lead	35.9		2.94	mg/kg wet	36.8		98	80-120	2	20	
Magnesium	345		36.8	mg/kg wet	368		94	80-120	0.9	20	
Manganese	35.4		1.47	mg/kg wet	36.8		96	80-120	0.9	20	
Nickel	35.9		0.735	mg/kg wet	36.8		98	80-120	1	20	
Potassium	1740		73.5	mg/kg wet	1840		95	80-120	1	20	
Selenium	34.6		2.94	mg/kg wet	36.8		94	80-120	1	20	
Silver	7.20		0.735	mg/kg wet	7.35		98	80-120	1	20	
Sodium	1770		36.8	mg/kg wet	1840		96	80-120	1	20	
Thallium	35.9		2.94	mg/kg wet	36.8		98	80-120	0.1	20	
Vanadium	36.6		1.47	mg/kg wet	36.8		100	80-120	0.8	20	
Zinc	37.0		1.47	mg/kg wet	36.8		101	80-120	1	20	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F27024 - EPA 5030B_MS

Blank (3F27024-BLK1) Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 16:11

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	<1.0	U	2.0	ug/kg wet							
1,1,2,2-Tetrachloroethane	<1.0	U	2.0	ug/kg wet							
1,1,2-Trichloroethane	<1.0	U	2.0	ug/kg wet							
1,1-Dichloroethane	<1.0	U	2.0	ug/kg wet							
1,1-Dichloroethene	<1.0	U	2.0	ug/kg wet							
1,2,3-Trichlorobenzene	<1.0	U	2.0	ug/kg wet							
1,2,4-Trichlorobenzene	<1.0	U	2.0	ug/kg wet							
1,2-Dibromo-3-chloropropane	<1.0	U	2.0	ug/kg wet							
1,2-Dibromoethane	<1.0	U	2.0	ug/kg wet							
1,2-Dichlorobenzene	<1.0	U	2.0	ug/kg wet							
1,2-Dichloroethane	<1.0	U	2.0	ug/kg wet							
1,2-Dichloropropane	<1.0	U	2.0	ug/kg wet							
1,3-Dichlorobenzene	<1.0	U	2.0	ug/kg wet							
1,4-Dichlorobenzene	<1.0	U	2.0	ug/kg wet							
1,4-Dioxane	<50	U	100	ug/kg wet							
2-Butanone	<2.5	U	5.0	ug/kg wet							
2-Hexanone	<2.5	U	5.0	ug/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F27024 - EPA 5030B_MS

Blank (3F27024-BLK1) Continued Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 16:11

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Methyl-2-pentanone	<2.5	U	5.0	ug/kg wet							
Acetone	<12	U	25	ug/kg wet							
Benzene	<1.0	U	2.0	ug/kg wet							
Bromochloromethane	<1.0	U	2.0	ug/kg wet							
Bromodichloromethane	<1.0	U	2.0	ug/kg wet							
Bromoform	<1.0	U	2.0	ug/kg wet							
Bromomethane	<5.0	U	10	ug/kg wet							
Carbon disulfide	<5.0	U	10	ug/kg wet							
Carbon Tetrachloride	<1.0	U	2.0	ug/kg wet							
Chlorobenzene	<1.0	U	2.0	ug/kg wet							
Chloroethane	<1.0	U	2.0	ug/kg wet							
Chloroform	<1.0	U	2.0	ug/kg wet							
Chloromethane	<1.0	U	2.0	ug/kg wet							
cis-1,2-Dichloroethene	<1.0	U	2.0	ug/kg wet							
cis-1,3-Dichloropropene	<1.0	U	2.0	ug/kg wet							
Cyclohexane	<1.0	U	2.0	ug/kg wet							
Dibromochloromethane	<1.0	U	2.0	ug/kg wet							
Dichlorodifluoromethane	<1.0	U	2.0	ug/kg wet							
Ethylbenzene	<1.0	U	2.0	ug/kg wet							
Freon 113	<1.0	U	2.0	ug/kg wet							
Isopropylbenzene	<1.0	U	2.0	ug/kg wet							
m,p-Xylenes	<2.0	U	4.0	ug/kg wet							
Methyl acetate	<5.0	U	10	ug/kg wet							
Methyl cyclohexane	<1.0	U	2.0	ug/kg wet							
Methylene Chloride	<5.0	U	10	ug/kg wet							
Methyl-tert-Butyl Ether	<1.0	U	2.0	ug/kg wet							
o-Xylene	<1.0	U	2.0	ug/kg wet							
Styrene	<1.0	U	2.0	ug/kg wet							
Tetrachloroethene	<1.0	U	2.0	ug/kg wet							
Toluene	<1.0	U	2.0	ug/kg wet							
trans-1,2-Dichloroethene	<1.0	U	2.0	ug/kg wet							
trans-1,3-Dichloropropene	<1.0	U	2.0	ug/kg wet							
Trichloroethene	<1.0	U	2.0	ug/kg wet							
Trichlorofluoromethane	<1.0	U	2.0	ug/kg wet							
Vinyl chloride	<1.0	U	2.0	ug/kg wet							
Xylenes (Total)	<2.0	U	4.0	ug/kg wet							
Surrogate: 4-Bromofluorobenzene	*55*			*ug/kg wet*	*50.0*		*110*	*85-120*			
Surrogate: Dibromofluoromethane	*55*			*ug/kg wet*	*50.0*		*109*	*74-133*			
Surrogate: Toluene-d8	*54*			*ug/kg wet*	*50.0*		*109*	*85-115*			

LCS (3F27024-BS1) Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 14:25

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	20		2.0	ug/kg wet	20.0		98	70-135			
1,1,2,2-Tetrachloroethane	18		2.0	ug/kg wet	20.0		92	55-130			
1,1,2-Trichloroethane	19		2.0	ug/kg wet	20.0		95	60-125			
1,1-Dichloroethane	19		2.0	ug/kg wet	20.0		96	75-125			
1,1-Dichloroethene	21		2.0	ug/kg wet	20.0		107	65-135			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F27024 - EPA 5030B_MS

LCS (3F27024-BS1) Continued Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 14:25

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,3-Trichlorobenzene	19		2.0	ug/kg wet	20.0		96	60-135			
1,2,4-Trichlorobenzene	19		2.0	ug/kg wet	20.0		96	65-130			
1,2-Dibromo-3-chloropropane	21		2.0	ug/kg wet	20.0		105	40-135			
1,2-Dibromoethane	18		2.0	ug/kg wet	20.0		92	70-125			
1,2-Dichlorobenzene	19		2.0	ug/kg wet	20.0		95	75-120			
1,2-Dichloroethane	20		2.0	ug/kg wet	20.0		99	70-135			
1,2-Dichloropropane	20		2.0	ug/kg wet	20.0		98	70-120			
1,3-Dichlorobenzene	20		2.0	ug/kg wet	20.0		98	70-125			
1,4-Dichlorobenzene	20		2.0	ug/kg wet	20.0		99	70-125			
1,4-Dioxane	21	J	100	ug/kg wet	20.0		103	44-134			
2-Butanone	54		5.0	ug/kg wet	50.0		108	30-160			
2-Hexanone	54		5.0	ug/kg wet	50.0		108	45-145			
4-Methyl-2-pentanone	54		5.0	ug/kg wet	50.0		108	45-145			
Acetone	57		25	ug/kg wet	50.0		113	20-160			
Benzene	20		2.0	ug/kg wet	20.0		101	75-125			
Bromochloromethane	19		2.0	ug/kg wet	20.0		95	70-125			
Bromodichloromethane	21		2.0	ug/kg wet	20.0		105	70-130			
Bromoform	19		2.0	ug/kg wet	20.0		94	55-135			
Bromomethane	20		10	ug/kg wet	20.0		98	30-160			
Carbon disulfide	20		10	ug/kg wet	20.0		98	45-160			
Carbon Tetrachloride	19		2.0	ug/kg wet	20.0		97	65-135			
Chlorobenzene	17		2.0	ug/kg wet	20.0		87	75-125			
Chloroethane	20		2.0	ug/kg wet	20.0		101	40-155			
Chloroform	20		2.0	ug/kg wet	20.0		101	70-125			
Chloromethane	20		2.0	ug/kg wet	20.0		100	50-130			
cis-1,2-Dichloroethene	19		2.0	ug/kg wet	20.0		93	65-125			
cis-1,3-Dichloropropene	19		2.0	ug/kg wet	20.0		95	70-125			
Cyclohexane	19		2.0	ug/kg wet	20.0		95	70-130			
Dibromochloromethane	19		2.0	ug/kg wet	20.0		96	65-130			
Dichlorodifluoromethane	22		2.0	ug/kg wet	20.0		109	35-135			
Ethylbenzene	19		2.0	ug/kg wet	20.0		93	75-125			
Freon 113	21		2.0	ug/kg wet	20.0		104	20-189			
Isopropylbenzene	18		2.0	ug/kg wet	20.0		91	75-130			
m,p-Xylenes	37		4.0	ug/kg wet	40.0		93	80-125			
Methyl acetate	19		10	ug/kg wet	20.0		96	70-130			
Methyl cyclohexane	18		2.0	ug/kg wet	20.0		89	70-130			
Methylene Chloride	19		10	ug/kg wet	20.0		94	55-140			
Methyl-tert-Butyl Ether	19		2.0	ug/kg wet	20.0		97	58-123			
o-Xylene	18		2.0	ug/kg wet	20.0		88	75-125			
Styrene	19		2.0	ug/kg wet	20.0		96	75-125			
Tetrachloroethene	24		2.0	ug/kg wet	20.0		118	65-140			
Toluene	19		2.0	ug/kg wet	20.0		95	70-125			
trans-1,2-Dichloroethene	18		2.0	ug/kg wet	20.0		92	65-135			
trans-1,3-Dichloropropene	20		2.0	ug/kg wet	20.0		102	65-125			
Trichloroethene	21		2.0	ug/kg wet	20.0		103	75-125			
Trichlorofluoromethane	20		2.0	ug/kg wet	20.0		98	25-185			
Vinyl chloride	19		2.0	ug/kg wet	20.0		94	60-125			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/kg wet*	*50.0*		*93*	*85-120*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F27024 - EPA 5030B_MS

LCS (3F27024-BS1) Continued Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 14:25

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*51*			*ug/kg wet*	*50.0*		*102*	*74-133*			
Surrogate: Toluene-d8	*52*			*ug/kg wet*	*50.0*		*104*	*85-115*			

LCS Dup (3F27024-BSD1) Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 14:59

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	17		2.0	ug/kg wet	20.0		85	70-135	14	30	
1,1,2,2-Tetrachloroethane	19		2.0	ug/kg wet	20.0		93	55-130	2	30	
1,1,2-Trichloroethane	20		2.0	ug/kg wet	20.0		100	60-125	5	30	
1,1-Dichloroethane	18		2.0	ug/kg wet	20.0		88	75-125	9	30	
1,1-Dichloroethene	19		2.0	ug/kg wet	20.0		93	65-135	14	30	
1,2,3-Trichlorobenzene	18		2.0	ug/kg wet	20.0		88	60-135	9	30	
1,2,4-Trichlorobenzene	17		2.0	ug/kg wet	20.0		86	65-130	10	30	
1,2-Dibromo-3-chloropropane	18		2.0	ug/kg wet	20.0		92	40-135	13	30	
1,2-Dibromoethane	19		2.0	ug/kg wet	20.0		96	70-125	4	30	
1,2-Dichlorobenzene	18		2.0	ug/kg wet	20.0		88	75-120	8	30	
1,2-Dichloroethane	19		2.0	ug/kg wet	20.0		93	70-135	7	30	
1,2-Dichloropropane	17		2.0	ug/kg wet	20.0		87	70-120	13	30	
1,3-Dichlorobenzene	17		2.0	ug/kg wet	20.0		87	70-125	12	30	
1,4-Dichlorobenzene	18		2.0	ug/kg wet	20.0		89	70-125	10	30	
1,4-Dioxane	24	J	100	ug/kg wet	20.0		121	44-134	16	30	
2-Butanone	46		5.0	ug/kg wet	50.0		92	30-160	16	30	
2-Hexanone	48		5.0	ug/kg wet	50.0		96	45-145	12	30	
4-Methyl-2-pentanone	49		5.0	ug/kg wet	50.0		99	45-145	8	30	
Acetone	48		25	ug/kg wet	50.0		95	20-160	18	30	
Benzene	18		2.0	ug/kg wet	20.0		89	75-125	12	30	
Bromochloromethane	18		2.0	ug/kg wet	20.0		89	70-125	7	30	
Bromodichloromethane	19		2.0	ug/kg wet	20.0		96	70-130	9	30	
Bromoform	19		2.0	ug/kg wet	20.0		96	55-135	2	30	
Bromomethane	19		10	ug/kg wet	20.0		95	30-160	2	30	
Carbon disulfide	17		10	ug/kg wet	20.0		85	45-160	15	30	
Carbon Tetrachloride	17		2.0	ug/kg wet	20.0		86	65-135	12	30	
Chlorobenzene	18		2.0	ug/kg wet	20.0		92	75-125	5	30	
Chloroethane	20		2.0	ug/kg wet	20.0		99	40-155	2	30	
Chloroform	18		2.0	ug/kg wet	20.0		91	70-125	11	30	
Chloromethane	18		2.0	ug/kg wet	20.0		90	50-130	10	30	
cis-1,2-Dichloroethene	17		2.0	ug/kg wet	20.0		86	65-125	8	30	
cis-1,3-Dichloropropene	18		2.0	ug/kg wet	20.0		88	70-125	9	30	
Cyclohexane	15		2.0	ug/kg wet	20.0		77	70-130	21	30	
Dibromochloromethane	21		2.0	ug/kg wet	20.0		103	65-130	7	30	
Dichlorodifluoromethane	19		2.0	ug/kg wet	20.0		96	35-135	13	30	
Ethylbenzene	18		2.0	ug/kg wet	20.0		91	75-125	1	30	
Freon 113	18		2.0	ug/kg wet	20.0		88	20-189	16	30	
Isopropylbenzene	18		2.0	ug/kg wet	20.0		90	75-130	1	30	
m,p-Xylenes	37		4.0	ug/kg wet	40.0		93	80-125	0.6	30	
Methyl acetate	21		10	ug/kg wet	20.0		104	70-130	8	30	
Methyl cyclohexane	15		2.0	ug/kg wet	20.0		76	70-130	15	30	
Methylene Chloride	17		10	ug/kg wet	20.0		85	55-140	10	30	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F27024 - EPA 5030B_MS

LCS Dup (3F27024-BSD1) Continued Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 14:59

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl-tert-Butyl Ether	18		2.0	ug/kg wet	20.0		90	58-123	8	30	
o-Xylene	18		2.0	ug/kg wet	20.0		91	75-125	3	30	
Styrene	19		2.0	ug/kg wet	20.0		97	75-125	0.6	30	
Tetrachloroethene	19		2.0	ug/kg wet	20.0		96	65-140	20	30	
Toluene	19		2.0	ug/kg wet	20.0		94	70-125	0.1	30	
trans-1,2-Dichloroethene	17		2.0	ug/kg wet	20.0		83	65-135	11	30	
trans-1,3-Dichloropropene	22		2.0	ug/kg wet	20.0		108	65-125	6	30	
Trichloroethene	18		2.0	ug/kg wet	20.0		88	75-125	16	30	
Trichlorofluoromethane	19		2.0	ug/kg wet	20.0		97	25-185	2	30	
Vinyl chloride	17		2.0	ug/kg wet	20.0		84	60-125	10	30	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/kg wet*	*50.0*		*105*	*85-120*			
Surrogate: Dibromofluoromethane	*50*			*ug/kg wet*	*50.0*		*101*	*74-133*			
Surrogate: Toluene-d8	*52*			*ug/kg wet*	*50.0*		*103*	*85-115*			

Batch 3F28011 - EPA 5030B_MS

Blank (3F28011-BLK1) Prepared: 06/28/2013 12:07 Analyzed: 06/28/2013 17:22

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	<1.0	U	2.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	U	2.0	ug/L							
1,1,2-Trichloroethane	<1.0	U	2.0	ug/L							
1,1-Dichloroethane	<1.0	U	2.0	ug/L							
1,1-Dichloroethene	<1.0	U	2.0	ug/L							
1,2,3-Trichlorobenzene	<1.0	U	2.0	ug/L							
1,2,4-Trichlorobenzene	<1.0	U	2.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	U	10	ug/L							
1,2-Dibromoethane	<1.0	U	2.0	ug/L							
1,2-Dichlorobenzene	<1.0	U	2.0	ug/L							
1,2-Dichloroethane	<1.0	U	2.0	ug/L							
1,2-Dichloropropane	<1.0	U	2.0	ug/L							
1,3-Dichlorobenzene	<1.0	U	2.0	ug/L							
1,4-Dichlorobenzene	<1.0	U	2.0	ug/L							
1,4-Dioxane	<50	U	100	ug/L							
2-Butanone	<12	U	25	ug/L							
2-Hexanone	<2.5	U	5.0	ug/L							
4-Methyl-2-pentanone	<2.5	U	5.0	ug/L							
Acetone	<12	U	25	ug/L							
Benzene	<1.0	U	2.0	ug/L							
Bromochloromethane	<1.0	U	2.0	ug/L							
Bromodichloromethane	<1.0	U	2.0	ug/L							
Bromoform	<1.0	U	2.0	ug/L							
Bromomethane	<1.0	U	2.0	ug/L							
Carbon disulfide	<5.0	U	10	ug/L							
Carbon Tetrachloride	<1.0	U	2.0	ug/L							
Chlorobenzene	<1.0	U	2.0	ug/L							
Chloroethane	<1.0	U	2.0	ug/L							
Chloroform	<1.0	U	2.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F28011 - EPA 5030B_MS

Blank (3F28011-BLK1) Continued Prepared: 06/28/2013 12:07 Analyzed: 06/28/2013 17:22

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	<1.0	U	2.0	ug/L							
cis-1,2-Dichloroethene	<1.0	U	2.0	ug/L							
cis-1,3-Dichloropropene	<1.0	U	2.0	ug/L							
Cyclohexane	<1.0	U	2.0	ug/L							
Dibromochloromethane	<1.0	U	2.0	ug/L							
Dichlorodifluoromethane	<1.0	U	2.0	ug/L							
Ethylbenzene	<1.0	U	2.0	ug/L							
Freon 113	<1.0	U	2.0	ug/L							
Isopropylbenzene	<1.0	U	2.0	ug/L							
m,p-Xylenes	<2.0	U	4.0	ug/L							
Methyl acetate	<1.0	U	2.0	ug/L							
Methyl cyclohexane	<1.0	U	2.0	ug/L							
Methylene Chloride	<5.0	U	10	ug/L							
Methyl-tert-Butyl Ether	<1.0	U	2.0	ug/L							
o-Xylene	<1.0	U	2.0	ug/L							
Styrene	<1.0	U	2.0	ug/L							
Tetrachloroethene	<1.0	U	2.0	ug/L							
Toluene	<1.0	U	2.0	ug/L							
trans-1,2-Dichloroethene	<1.0	U	2.0	ug/L							
trans-1,3-Dichloropropene	<1.0	U	2.0	ug/L							
Trichloroethene	<1.0	U	2.0	ug/L							
Trichlorofluoromethane	<1.0	U	2.0	ug/L							
Vinyl chloride	<1.0	U	2.0	ug/L							
Xylenes (Total)	<2.0	U	4.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*75-120*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*85-115*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*85-120*			

LCS (3F28011-BS1) Prepared: 06/28/2013 12:07 Analyzed: 06/28/2013 16:15

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	20		2.0	ug/L	20.0		98	65-130			
1,1,2,2-Tetrachloroethane	20		2.0	ug/L	20.0		98	65-130			
1,1,2-Trichloroethane	21		2.0	ug/L	20.0		103	75-125			
1,1-Dichloroethane	18		2.0	ug/L	20.0		92	70-135			
1,1-Dichloroethene	23		2.0	ug/L	20.0		115	70-130			
1,2,3-Trichlorobenzene	22		2.0	ug/L	20.0		109	55-140			
1,2,4-Trichlorobenzene	21		2.0	ug/L	20.0		105	65-135			
1,2-Dibromo-3-chloropropane	20		10	ug/L	20.0		102	50-130			
1,2-Dibromoethane	20		2.0	ug/L	20.0		100	80-120			
1,2-Dichlorobenzene	19		2.0	ug/L	20.0		95	70-120			
1,2-Dichloroethane	20		2.0	ug/L	20.0		102	70-130			
1,2-Dichloropropane	19		2.0	ug/L	20.0		96	75-125			
1,3-Dichlorobenzene	19		2.0	ug/L	20.0		95	75-125			
1,4-Dichlorobenzene	20		2.0	ug/L	20.0		98	75-125			
1,4-Dioxane	25		100	ug/L	20.0		124	10-200			
2-Butanone	32		25	ug/L	50.0		64	30-150			
2-Hexanone	32		5.0	ug/L	50.0		65	55-130			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F28011 - EPA 5030B_MS

LCS (3F28011-BS1) Continued Prepared: 06/28/2013 12:07 Analyzed: 06/28/2013 16:15

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Methyl-2-pentanone	41		5.0	ug/L	50.0		82	60-135			
Acetone	29		25	ug/L	50.0		58	40-140			
Benzene	23		2.0	ug/L	20.0		114	80-120			
Bromochloromethane	17		2.0	ug/L	20.0		84	65-130			
Bromodichloromethane	20		2.0	ug/L	20.0		101	75-120			
Bromoform	21		2.0	ug/L	20.0		106	70-130			
Bromomethane	11		2.0	ug/L	20.0		56	30-145			
Carbon disulfide	18		10	ug/L	20.0		88	35-160			
Carbon Tetrachloride	22		2.0	ug/L	20.0		112	65-140			
Chlorobenzene	21		2.0	ug/L	20.0		104	80-120			
Chloroethane	17		2.0	ug/L	20.0		86	60-135			
Chloroform	19		2.0	ug/L	20.0		94	65-135			
Chloromethane	14		2.0	ug/L	20.0		69	40-125			
cis-1,2-Dichloroethene	17		2.0	ug/L	20.0		87	70-125			
cis-1,3-Dichloropropene	19		2.0	ug/L	20.0		95	70-130			
Cyclohexane	17		2.0	ug/L	20.0		83	45-147			
Dibromochloromethane	20		2.0	ug/L	20.0		99	60-135			
Dichlorodifluoromethane	16		2.0	ug/L	20.0		82	30-155			
Ethylbenzene	21		2.0	ug/L	20.0		106	75-125			
Freon 113	20		2.0	ug/L	20.0		101	47-173			
Isopropylbenzene	21		2.0	ug/L	20.0		103	75-125			
m,p-Xylenes	44		4.0	ug/L	40.0		110	75-130			
Methyl acetate	22		2.0	ug/L	20.0		112	24-129			
Methyl cyclohexane	19		2.0	ug/L	20.0		97	55-121			
Methylene Chloride	17		10	ug/L	20.0		87	55-140			
Methyl-tert-Butyl Ether	21		2.0	ug/L	20.0		106	65-125			
o-Xylene	20		2.0	ug/L	20.0		99	80-120			
Styrene	20		2.0	ug/L	20.0		102	65-135			
Tetrachloroethene	26		2.0	ug/L	20.0		128	45-150			
Toluene	22		2.0	ug/L	20.0		112	75-120			
trans-1,2-Dichloroethene	19		2.0	ug/L	20.0		93	60-140			
trans-1,3-Dichloropropene	23		2.0	ug/L	20.0		113	55-140			
Trichloroethene	21		2.0	ug/L	20.0		103	70-125			
Trichlorofluoromethane	16		2.0	ug/L	20.0		79	60-145			
Vinyl chloride	13		2.0	ug/L	20.0		65	50-145			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*75-120*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*85-115*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*85-120*			

LCS Dup (3F28011-BSD1) Prepared: 06/28/2013 12:07 Analyzed: 06/28/2013 16:49

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	26		2.0	ug/L	20.0		129	65-130	28	30	
1,1,2,2-Tetrachloroethane	22		2.0	ug/L	20.0		109	65-130	10	30	
1,1,2-Trichloroethane	22		2.0	ug/L	20.0		109	75-125	6	30	
1,1-Dichloroethane	24		2.0	ug/L	20.0		119	70-135	25	30	
1,1-Dichloroethene	23		2.0	ug/L	20.0		114	70-130	1	30	
1,2,3-Trichlorobenzene	27		2.0	ug/L	20.0		136	55-140	21	30	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F28011 - EPA 5030B_MS

LCS Dup (3F28011-BSD1) Continued Prepared: 06/28/2013 12:07 Analyzed: 06/28/2013 16:49

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	26		2.0	ug/L	20.0		129	65-135	21	30	
1,2-Dibromo-3-chloropropane	22		10	ug/L	20.0		108	50-130	6	30	
1,2-Dibromoethane	23		2.0	ug/L	20.0		113	80-120	13	30	
1,2-Dichlorobenzene	20		2.0	ug/L	20.0		102	70-120	7	30	
1,2-Dichloroethane	22		2.0	ug/L	20.0		111	70-130	8	30	
1,2-Dichloropropane	22		2.0	ug/L	20.0		112	75-125	15	30	
1,3-Dichlorobenzene	20		2.0	ug/L	20.0		101	75-125	6	30	
1,4-Dichlorobenzene	21		2.0	ug/L	20.0		107	75-125	9	30	
1,4-Dioxane	24		100	ug/L	20.0		118	10-200	5	30	
2-Butanone	34		25	ug/L	50.0		67	30-150	5	30	
2-Hexanone	35		5.0	ug/L	50.0		70	55-130	8	30	
4-Methyl-2-pentanone	41		5.0	ug/L	50.0		83	60-135	0.9	30	
Acetone	33		25	ug/L	50.0		65	40-140	12	30	
Benzene	22		2.0	ug/L	20.0		108	80-120	5	30	
Bromochloromethane	17		2.0	ug/L	20.0		87	65-130	4	30	
Bromodichloromethane	22		2.0	ug/L	20.0		112	75-120	11	30	
Bromoform	24		2.0	ug/L	20.0		121	70-130	14	30	
Bromomethane	14		2.0	ug/L	20.0		70	30-145	22	30	
Carbon disulfide	19		10	ug/L	20.0		95	35-160	8	30	
Carbon Tetrachloride	24		2.0	ug/L	20.0		120	65-140	7	30	
Chlorobenzene	23		2.0	ug/L	20.0		114	80-120	10	30	
Chloroethane	19		2.0	ug/L	20.0		95	60-135	10	30	
Chloroform	20		2.0	ug/L	20.0		100	65-135	6	30	
Chloromethane	15		2.0	ug/L	20.0		77	40-125	10	30	
cis-1,2-Dichloroethene	19		2.0	ug/L	20.0		95	70-125	8	30	
cis-1,3-Dichloropropene	26		2.0	ug/L	20.0		129	70-130	30	30	
Cyclohexane	19		2.0	ug/L	20.0		95	45-147	14	30	
Dibromochloromethane	21		2.0	ug/L	20.0		107	60-135	8	30	
Dichlorodifluoromethane	18		2.0	ug/L	20.0		91	30-155	10	30	
Ethylbenzene	20		2.0	ug/L	20.0		102	75-125	3	30	
Freon 113	22		2.0	ug/L	20.0		111	47-173	10	30	
Isopropylbenzene	22		2.0	ug/L	20.0		110	75-125	7	30	
m,p-Xylenes	47		4.0	ug/L	40.0		118	75-130	8	30	
Methyl acetate	23		2.0	ug/L	20.0		115	24-129	3	30	
Methyl cyclohexane	23		2.0	ug/L	20.0		115	55-121	17	30	
Methylene Chloride	22		10	ug/L	20.0		111	55-140	24	30	
Methyl-tert-Butyl Ether	23		2.0	ug/L	20.0		116	65-125	9	30	
o-Xylene	22		2.0	ug/L	20.0		110	80-120	10	30	
Styrene	27		2.0	ug/L	20.0		135	65-135	28	30	
Tetrachloroethene	28		2.0	ug/L	20.0		138	45-150	7	30	
Toluene	23		2.0	ug/L	20.0		113	75-120	0.4	30	
trans-1,2-Dichloroethene	23		2.0	ug/L	20.0		113	60-140	19	30	
trans-1,3-Dichloropropene	23		2.0	ug/L	20.0		117	55-140	3	30	
Trichloroethene	21		2.0	ug/L	20.0		107	70-125	4	30	
Trichlorofluoromethane	17		2.0	ug/L	20.0		85	60-145	7	30	
Vinyl chloride	14		2.0	ug/L	20.0		71	50-145	9	30	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*75-120*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*85*	*85-115*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F28011 - EPA 5030B_MS

LCS Dup (3F28011-BSD1) Continued Prepared: 06/28/2013 12:07 Analyzed: 06/28/2013 16:49

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*85-120*			

Batch 3F30006 - EPA 5030B_MS

Blank (3F30006-BLK1) Prepared: 07/01/2013 12:13 Analyzed: 07/01/2013 14:19

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	<1.0	U	2.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	U	2.0	ug/L							
1,1,2-Trichloroethane	<1.0	U	2.0	ug/L							
1,1-Dichloroethane	<1.0	U	2.0	ug/L							
1,1-Dichloroethene	<1.0	U	2.0	ug/L							
1,2,3-Trichlorobenzene	<1.0	U	2.0	ug/L							
1,2,4-Trichlorobenzene	<1.0	U	2.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	U	10	ug/L							
1,2-Dibromoethane	<1.0	U	2.0	ug/L							
1,2-Dichlorobenzene	<1.0	U	2.0	ug/L							
1,2-Dichloroethane	<1.0	U	2.0	ug/L							
1,2-Dichloropropane	<1.0	U	2.0	ug/L							
1,3-Dichlorobenzene	<1.0	U	2.0	ug/L							
1,4-Dichlorobenzene	<1.0	U	2.0	ug/L							
1,4-Dioxane	<50	U	100	ug/L							
2-Butanone	<12	U	25	ug/L							
2-Hexanone	<2.5	U	5.0	ug/L							
4-Methyl-2-pentanone	<2.5	U	5.0	ug/L							
Acetone	<12	U	25	ug/L							
Benzene	<1.0	U	2.0	ug/L							
Bromochloromethane	<1.0	U	2.0	ug/L							
Bromodichloromethane	<1.0	U	2.0	ug/L							
Bromoform	<1.0	U	2.0	ug/L							
Bromomethane	<1.0	U	2.0	ug/L							
Carbon disulfide	<5.0	U	10	ug/L							
Carbon Tetrachloride	<1.0	U	2.0	ug/L							
Chlorobenzene	<1.0	U	2.0	ug/L							
Chloroethane	<1.0	U	2.0	ug/L							
Chloroform	<1.0	U	2.0	ug/L							
Chloromethane	<1.0	U	2.0	ug/L							
cis-1,2-Dichloroethene	<1.0	U	2.0	ug/L							
cis-1,3-Dichloropropene	<1.0	U	2.0	ug/L							
Cyclohexane	<1.0	U	2.0	ug/L							
Dibromochloromethane	<1.0	U	2.0	ug/L							
Dichlorodifluoromethane	<1.0	U	2.0	ug/L							
Ethylbenzene	<1.0	U	2.0	ug/L							
Freon 113	<1.0	U	2.0	ug/L							
Isopropylbenzene	<1.0	U	2.0	ug/L							
m,p-Xylenes	<2.0	U	4.0	ug/L							
Methyl acetate	<1.0	U	2.0	ug/L							
Methyl cyclohexane	<1.0	U	2.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F30006 - EPA 5030B_MS

Blank (3F30006-BLK1) Continued Prepared: 07/01/2013 12:13 Analyzed: 07/01/2013 14:19

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene Chloride	<5.0	U	10	ug/L							
Methyl-tert-Butyl Ether	<1.0	U	2.0	ug/L							
o-Xylene	<1.0	U	2.0	ug/L							
Styrene	<1.0	U	2.0	ug/L							
Tetrachloroethene	<1.0	U	2.0	ug/L							
Toluene	<1.0	U	2.0	ug/L							
trans-1,2-Dichloroethene	<1.0	U	2.0	ug/L							
trans-1,3-Dichloropropene	<1.0	U	2.0	ug/L							
Trichloroethene	<1.0	U	2.0	ug/L							
Trichlorofluoromethane	<1.0	U	2.0	ug/L							
Vinyl chloride	<1.0	U	2.0	ug/L							
Xylenes (Total)	<2.0	U	4.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*75-120*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*85-115*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*85-120*			

LCS (3F30006-BS1) Prepared: 07/01/2013 12:13 Analyzed: 07/01/2013 13:19

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	22		2.0	ug/L	20.0		110	65-130			
1,1,2,2-Tetrachloroethane	14		2.0	ug/L	20.0		68	65-130			
1,1,2-Trichloroethane	15		2.0	ug/L	20.0		76	75-125			
1,1-Dichloroethane	17		2.0	ug/L	20.0		85	70-135			
1,1-Dichloroethene	16		2.0	ug/L	20.0		78	70-130			
1,2,3-Trichlorobenzene	17		2.0	ug/L	20.0		83	55-140			
1,2,4-Trichlorobenzene	16		2.0	ug/L	20.0		78	65-135			
1,2-Dibromo-3-chloropropane	20		10	ug/L	20.0		98	50-130			
1,2-Dibromoethane	17		2.0	ug/L	20.0		86	80-120			
1,2-Dichlorobenzene	15		2.0	ug/L	20.0		75	70-120			
1,2-Dichloroethane	20		2.0	ug/L	20.0		101	70-130			
1,2-Dichloropropane	15		2.0	ug/L	20.0		76	75-125			
1,3-Dichlorobenzene	15		2.0	ug/L	20.0		77	75-125			
1,4-Dichlorobenzene	16		2.0	ug/L	20.0		81	75-125			
1,4-Dioxane	29		100	ug/L	20.0		145	10-200			
2-Butanone	37		25	ug/L	50.0		74	30-150			
2-Hexanone	35		5.0	ug/L	50.0		71	55-130			
4-Methyl-2-pentanone	36		5.0	ug/L	50.0		72	60-135			
Acetone	44		25	ug/L	50.0		88	40-140			
Benzene	16		2.0	ug/L	20.0		81	80-120			
Bromochloromethane	15		2.0	ug/L	20.0		73	65-130			
Bromodichloromethane	20		2.0	ug/L	20.0		98	75-120			
Bromoform	15		2.0	ug/L	20.0		74	70-130			
Bromomethane	17		2.0	ug/L	20.0		84	30-145			
Carbon disulfide	14		10	ug/L	20.0		71	35-160			
Carbon Tetrachloride	21		2.0	ug/L	20.0		107	65-140			
Chlorobenzene	17		2.0	ug/L	20.0		83	80-120			
Chloroethane	15		2.0	ug/L	20.0		76	60-135			
Chloroform	19		2.0	ug/L	20.0		94	65-135			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F30006 - EPA 5030B_MS

LCS (3F30006-BS1) Continued Prepared: 07/01/2013 12:13 Analyzed: 07/01/2013 13:19

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	19		2.0	ug/L	20.0		94	40-125			
cis-1,2-Dichloroethene	16		2.0	ug/L	20.0		78	70-125			
cis-1,3-Dichloropropene	16		2.0	ug/L	20.0		80	70-130			
Cyclohexane	16		2.0	ug/L	20.0		80	45-147			
Dibromochloromethane	18		2.0	ug/L	20.0		88	60-135			
Dichlorodifluoromethane	25		2.0	ug/L	20.0		126	30-155			
Ethylbenzene	18		2.0	ug/L	20.0		91	75-125			
Freon 113	15		2.0	ug/L	20.0		75	47-173			
Isopropylbenzene	18		2.0	ug/L	20.0		91	75-125			
m,p-Xylenes	34		4.0	ug/L	40.0		85	75-130			
Methyl acetate	20		2.0	ug/L	20.0		98	24-129			
Methyl cyclohexane	16		2.0	ug/L	20.0		82	55-121			
Methylene Chloride	15		10	ug/L	20.0		74	55-140			
Methyl-tert-Butyl Ether	18		2.0	ug/L	20.0		91	65-125			
o-Xylene	17		2.0	ug/L	20.0		87	80-120			
Styrene	17		2.0	ug/L	20.0		85	65-135			
Tetrachloroethene	17		2.0	ug/L	20.0		83	45-150			
Toluene	17		2.0	ug/L	20.0		84	75-120			
trans-1,2-Dichloroethene	17		2.0	ug/L	20.0		83	60-140			
trans-1,3-Dichloropropene	20		2.0	ug/L	20.0		99	55-140			
Trichloroethene	16		2.0	ug/L	20.0		78	70-125			
Trichlorofluoromethane	21		2.0	ug/L	20.0		105	60-145			
Vinyl chloride	15		2.0	ug/L	20.0		77	50-145			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*75-120*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*85-115*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*85-120*			

LCS Dup (3F30006-BSD1) Prepared: 07/01/2013 12:13 Analyzed: 07/01/2013 13:49

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	23		2.0	ug/L	20.0		113	65-130	3	30	
1,1,2,2-Tetrachloroethane	15		2.0	ug/L	20.0		76	65-130	12	30	
1,1,2-Trichloroethane	16		2.0	ug/L	20.0		80	75-125	6	30	
1,1-Dichloroethane	18		2.0	ug/L	20.0		92	70-135	7	30	
1,1-Dichloroethene	16		2.0	ug/L	20.0		80	70-130	2	30	
1,2,3-Trichlorobenzene	18		2.0	ug/L	20.0		90	55-140	8	30	
1,2,4-Trichlorobenzene	18		2.0	ug/L	20.0		88	65-135	12	30	
1,2-Dibromo-3-chloropropane	20		10	ug/L	20.0		102	50-130	4	30	
1,2-Dibromoethane	19		2.0	ug/L	20.0		94	80-120	9	30	
1,2-Dichlorobenzene	17		2.0	ug/L	20.0		84	70-120	11	30	
1,2-Dichloroethane	23		2.0	ug/L	20.0		113	70-130	11	30	
1,2-Dichloropropane	15		2.0	ug/L	20.0		76	75-125	0.3	30	
1,3-Dichlorobenzene	16		2.0	ug/L	20.0		80	75-125	4	30	
1,4-Dichlorobenzene	18		2.0	ug/L	20.0		88	75-125	8	30	
1,4-Dioxane	28		100	ug/L	20.0		138	10-200	5	30	
2-Butanone	44		25	ug/L	50.0		88	30-150	18	30	
2-Hexanone	46		5.0	ug/L	50.0		91	55-130	25	30	
4-Methyl-2-pentanone	39		5.0	ug/L	50.0		79	60-135	9	30	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3F30006 - EPA 5030B_MS

LCS Dup (3F30006-BSD1) Continued Prepared: 07/01/2013 12:13 Analyzed: 07/01/2013 13:49

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetone	42		25	ug/L	50.0		84	40-140	5	30	
Benzene	17		2.0	ug/L	20.0		84	80-120	4	30	
Bromochloromethane	16		2.0	ug/L	20.0		80	65-130	9	30	
Bromodichloromethane	20		2.0	ug/L	20.0		100	75-120	3	30	
Bromoform	17		2.0	ug/L	20.0		84	70-130	12	30	
Bromomethane	16		2.0	ug/L	20.0		78	30-145	7	30	
Carbon disulfide	15		10	ug/L	20.0		74	35-160	5	30	
Carbon Tetrachloride	23		2.0	ug/L	20.0		114	65-140	6	30	
Chlorobenzene	17		2.0	ug/L	20.0		86	80-120	3	30	
Chloroethane	15		2.0	ug/L	20.0		76	60-135	0.5	30	
Chloroform	19		2.0	ug/L	20.0		96	65-135	1	30	
Chloromethane	20		2.0	ug/L	20.0		100	40-125	6	30	
cis-1,2-Dichloroethene	16		2.0	ug/L	20.0		82	70-125	5	30	
cis-1,3-Dichloropropene	18		2.0	ug/L	20.0		92	70-130	13	30	
Cyclohexane	17		2.0	ug/L	20.0		84	45-147	4	30	
Dibromochloromethane	20		2.0	ug/L	20.0		100	60-135	13	30	
Dichlorodifluoromethane	26		2.0	ug/L	20.0		130	30-155	3	30	
Ethylbenzene	20		2.0	ug/L	20.0		100	75-125	9	30	
Freon 113	17		2.0	ug/L	20.0		83	47-173	10	30	
Isopropylbenzene	20		2.0	ug/L	20.0		98	75-125	8	30	
m,p-Xylenes	36		4.0	ug/L	40.0		90	75-130	6	30	
Methyl acetate	20		2.0	ug/L	20.0		100	24-129	2	30	
Methyl cyclohexane	16		2.0	ug/L	20.0		82	55-121	0.2	30	
Methylene Chloride	16		10	ug/L	20.0		78	55-140	5	30	
Methyl-tert-Butyl Ether	20		2.0	ug/L	20.0		102	65-125	11	30	
o-Xylene	20		2.0	ug/L	20.0		99	80-120	13	30	
Styrene	19		2.0	ug/L	20.0		95	65-135	11	30	
Tetrachloroethene	18		2.0	ug/L	20.0		88	45-150	5	30	
Toluene	18		2.0	ug/L	20.0		91	75-120	7	30	
trans-1,2-Dichloroethene	17		2.0	ug/L	20.0		86	60-140	4	30	
trans-1,3-Dichloropropene	22		2.0	ug/L	20.0		109	55-140	10	30	
Trichloroethene	16		2.0	ug/L	20.0		81	70-125	4	30	
Trichlorofluoromethane	21		2.0	ug/L	20.0		105	60-145	0.7	30	
Vinyl chloride	16		2.0	ug/L	20.0		80	50-145	4	30	
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*99*	*75-120*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*85-115*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*85-120*			

Tentatively Identified Compounds by Volatile GCMS - Quality Control

Batch 3F27024 - EPA 5030B_MS

Blank (3F27024-BLK1) Prepared: 06/27/2013 12:23 Analyzed: 06/27/2013 16:11

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		ug/kg wet							

Semivolatile Organic Compounds by GCMS - Quality Control

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F21017 - EPA 3550C_MS

Blank (3F21017-BLK1) Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 12:26

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	<100	U	330	ug/kg wet							
1,2,4,5-Tetrachlorobenzene	<100	U	330	ug/kg wet							
2,3,4,6-Tetrachlorophenol	<200	U	330	ug/kg wet							
2,4,5-Trichlorophenol	<100	U	330	ug/kg wet							
2,4,6-Trichlorophenol	<100	U	330	ug/kg wet							
2,4-Dichlorophenol	<100	U	330	ug/kg wet							
2,4-Dimethylphenol	<100	U	330	ug/kg wet							
2,4-Dinitrophenol	<300	U	330	ug/kg wet							
2,4-Dinitrotoluene	<100	U	330	ug/kg wet							
2,6-Dinitrotoluene	<100	U	330	ug/kg wet							
2-Chloronaphthalene	<100	U	330	ug/kg wet							
2-Chlorophenol	<100	U	330	ug/kg wet							
2-Methyl-4,6-dinitrophenol	<300	U	330	ug/kg wet							
2-Methylphenol	<100	U	330	ug/kg wet							
2-Nitroaniline	<100	U	330	ug/kg wet							
2-Nitrophenol	<100	U	330	ug/kg wet							
3 & 4-Methylphenol	<200	U	330	ug/kg wet							
3,3'-Dichlorobenzidine	<100	U	330	ug/kg wet							
3-Nitroaniline	<100	U	330	ug/kg wet							
4-Bromophenyl-phenylether	<100	U	330	ug/kg wet							
4-Chloro-3-methylphenol	<100	U	330	ug/kg wet							
4-Chloroaniline	<100	U	330	ug/kg wet							
4-Chlorophenyl-phenylether	<100	U	330	ug/kg wet							
4-Nitroaniline	<100	U	330	ug/kg wet							
4-Nitrophenol	<100	U	330	ug/kg wet							
Acetophenone	<100	U	330	ug/kg wet							
Atrazine	<100	U	330	ug/kg wet							
Benzaldehyde	<100	U	330	ug/kg wet							
Bis(2-chloroethoxy)methane	<100	U	330	ug/kg wet							
Bis(2-chloroethyl)ether	<100	U	330	ug/kg wet							
Bis(2-chloroisopropyl)ether	<100	U	330	ug/kg wet							
Bis(2-ethylhexyl)phthalate	<100	U	330	ug/kg wet							
Butylbenzylphthalate	<100	U	330	ug/kg wet							
Caprolactam	<200	U	330	ug/kg wet							
Carbazole	<100	U	330	ug/kg wet							
Dibenzofuran	<100	U	330	ug/kg wet							
Diethylphthalate	<100	U	330	ug/kg wet							
Dimethylphthalate	<100	U	330	ug/kg wet							
Di-n-butylphthalate	<100	U	330	ug/kg wet							
Di-n-octylphthalate	<100	U	330	ug/kg wet							
Hexachlorobenzene	<100	U	330	ug/kg wet							
Hexachlorobutadiene	<100	U	330	ug/kg wet							
Hexachlorocyclopentadiene	<100	U	330	ug/kg wet							
Hexachloroethane	<100	U	330	ug/kg wet							
Isophorone	<100	U	330	ug/kg wet							
Nitrobenzene	<100	U	330	ug/kg wet							
N-Nitroso-di-n-propylamine	<100	U	330	ug/kg wet							
N-nitrosodiphenylamine/Diphenylamine	<200	U	330	ug/kg wet							
Pentachlorophenol	<300	U	330	ug/kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F21017 - EPA 3550C_MS

Blank (3F21017-BLK1) Continued Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 12:26

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	<100	U	330	ug/kg wet							
Surrogate: 2,4,6-Tribromophenol	*1300*			*ug/kg wet*	*1670*		*79*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1200*			*ug/kg wet*	*1670*		*69*	*45-105*			
Surrogate: 2-Fluorophenol	*1100*			*ug/kg wet*	*1670*		*66*	*35-105*			
Surrogate: Nitrobenzene-d5	*1000*			*ug/kg wet*	*1670*		*61*	*35-100*			
Surrogate: Phenol-d5	*1200*			*ug/kg wet*	*1670*		*75*	*40-100*			
Surrogate: Terphenyl-d14	*1800*			*ug/kg wet*	*1670*		*111*	*30-125*			

LCS (3F21017-BS1) Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 12:55

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	1500		330	ug/kg wet	1670		88	52-100			
1,2,4,5-Tetrachlorobenzene	1400	Q	330	ug/kg wet	1670		83	59-81			QL-02
2,3,4,6-Tetrachlorophenol	1500		330	ug/kg wet	1670		90	18-98			
2,4,5-Trichlorophenol	1500		330	ug/kg wet	1670		87	50-110			
2,4,6-Trichlorophenol	1500		330	ug/kg wet	1670		90	45-110			
2,4-Dichlorophenol	1500		330	ug/kg wet	1670		88	45-110			
2,4-Dimethylphenol	1200		330	ug/kg wet	1670		70	30-105			
2,4-Dinitrophenol	1300		330	ug/kg wet	1670		80	15-130			
2,4-Dinitrotoluene	1500		330	ug/kg wet	1670		90	50-115			
2,6-Dinitrotoluene	1500		330	ug/kg wet	1670		91	50-110			
2-Chloronaphthalene	1400		330	ug/kg wet	1670		84	45-105			
2-Chlorophenol	1500		330	ug/kg wet	1670		88	45-105			
2-Methyl-4,6-dinitrophenol	1600		330	ug/kg wet	1670		96	30-135			
2-Methylphenol	1400		330	ug/kg wet	1670		83	40-105			
2-Nitroaniline	1400		330	ug/kg wet	1670		86	45-120			
2-Nitrophenol	1400		330	ug/kg wet	1670		85	40-110			
3 & 4-Methylphenol	1400		330	ug/kg wet	1670		83	40-105			
3,3'-Dichlorobenzidine	1000		330	ug/kg wet	1670		61	10-130			
3-Nitroaniline	1200		330	ug/kg wet	1670		73	25-110			
4-Bromophenyl-phenylether	1400		330	ug/kg wet	1670		86	45-115			
4-Chloro-3-methylphenol	1500		330	ug/kg wet	1670		90	45-115			
4-Chloroaniline	610		330	ug/kg wet	1670		37	10-100			
4-Chlorophenyl-phenylether	1500		330	ug/kg wet	1670		90	45-110			
4-Nitroaniline	1400		330	ug/kg wet	1670		83	35-115			
4-Nitrophenol	1600		330	ug/kg wet	1670		97	15-140			
Acetophenone	1400		330	ug/kg wet	1670		81	52-86			
Atrazine	1700		330	ug/kg wet	1670		101	45-120			
Benzaldehyde	1400		330	ug/kg wet	1670		86	45-99			
Bis(2-chloroethoxy)methane	1400		330	ug/kg wet	1670		87	45-110			
Bis(2-chloroethyl)ether	1400		330	ug/kg wet	1670		86	40-105			
Bis(2-chloroisopropyl)ether	1400		330	ug/kg wet	1670		83	20-115			
Bis(2-ethylhexyl)phthalate	1700		330	ug/kg wet	1670		102	45-125			
Butylbenzylphthalate	1800		330	ug/kg wet	1670		107	50-125			
Caprolactam	2000		330	ug/kg wet	1670		119	14-125			
Carbazole	1500		330	ug/kg wet	1670		93	45-115			
Dibenzofuran	1400		330	ug/kg wet	1670		84	50-105			
Diethylphthalate	1600		330	ug/kg wet	1670		95	50-115			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F21017 - EPA 3550C_MS

LCS (3F21017-BS1) Continued Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 12:55

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dimethylphthalate	1500		330	ug/kg wet	1670		90	50-110			
Di-n-butylphthalate	1800		330	ug/kg wet	1670		109	55-110			
Di-n-octylphthalate	1700		330	ug/kg wet	1670		103	40-130			
Hexachlorobenzene	1500		330	ug/kg wet	1670		90	45-120			
Hexachlorobutadiene	1300		330	ug/kg wet	1670		79	40-115			
Hexachlorocyclopentadiene	1700		330	ug/kg wet	1670		100	10-170			
Hexachloroethane	1300		330	ug/kg wet	1670		77	35-110			
Isophorone	1600		330	ug/kg wet	1670		97	45-110			
Nitrobenzene	1400		330	ug/kg wet	1670		82	40-115			
N-Nitroso-di-n-propylamine	1600		330	ug/kg wet	1670		94	40-115			
N-nitrosodiphenylamine/Diphenylamine	1300		330	ug/kg wet	1670		76	50-115			
Pentachlorophenol	1400		330	ug/kg wet	1670		87	25-120			
Phenol	1400		330	ug/kg wet	1670		84	40-100			
Surrogate: 2,4,6-Tribromophenol	*1700*			*ug/kg wet*	*1670*		*101*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1400*			*ug/kg wet*	*1670*		*87*	*45-105*			
Surrogate: 2-Fluorophenol	*1400*			*ug/kg wet*	*1670*		*84*	*35-105*			
Surrogate: Nitrobenzene-d5	*1400*			*ug/kg wet*	*1670*		*82*	*35-100*			
Surrogate: Phenol-d5	*1500*			*ug/kg wet*	*1670*		*90*	*40-100*			
Surrogate: Terphenyl-d14	*2000*			*ug/kg wet*	*1670*		*117*	*30-125*			

Matrix Spike (3F21017-MS1) Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 13:23

Source: A303479-03

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	1400		380	ug/kg dry	1900	110 U	75	52-100			
1,2,4,5-Tetrachlorobenzene	1300		380	ug/kg dry	1900	79 U	68	59-81			
2,3,4,6-Tetrachlorophenol	2100	Q	380	ug/kg dry	1900	84 U	111	18-98			QM-07
2,4,5-Trichlorophenol	1700		380	ug/kg dry	1900	66 U	91	50-110			
2,4,6-Trichlorophenol	1700		380	ug/kg dry	1900	68 U	89	45-110			
2,4-Dichlorophenol	1400		380	ug/kg dry	1900	81 U	74	45-110			
2,4-Dimethylphenol	1300		380	ug/kg dry	1900	84 U	71	30-105			
2,4-Dinitrophenol	1600		380	ug/kg dry	1900	140 U	84	15-130			
2,4-Dinitrotoluene	1900		380	ug/kg dry	1900	82 U	98	50-115			
2,6-Dinitrotoluene	1800		380	ug/kg dry	1900	79 U	94	50-110			
2-Chloronaphthalene	1300		380	ug/kg dry	1900	74 U	68	45-105			
2-Chlorophenol	1100		380	ug/kg dry	1900	93 U	60	45-105			
2-Methyl-4,6-dinitrophenol	2100		380	ug/kg dry	1900	150 U	109	30-135			
2-Methylphenol	1200		380	ug/kg dry	1900	80 U	65	40-105			
2-Nitroaniline	1700		380	ug/kg dry	1900	76 U	89	45-120			
2-Nitrophenol	1200		380	ug/kg dry	1900	89 U	62	40-110			
3 & 4-Methylphenol	1300		380	ug/kg dry	1900	180 U	66	40-105			
3,3'-Dichlorobenzidine	1600		380	ug/kg dry	1900	100 U	86	10-130			
3-Nitroaniline	1600		380	ug/kg dry	1900	84 U	86	25-110			
4-Bromophenyl-phenylether	1600		380	ug/kg dry	1900	83 U	83	45-115			
4-Chloro-3-methylphenol	1800		380	ug/kg dry	1900	76 U	97	45-115			
4-Chloroaniline	1000		380	ug/kg dry	1900	100 U	53	10-100			
4-Chlorophenyl-phenylether	1700		380	ug/kg dry	1900	76 U	89	45-110			
4-Nitroaniline	1800		380	ug/kg dry	1900	93 U	97	35-115			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F21017 - EPA 3550C_MS

Matrix Spike (3F21017-MS1) Continued Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 13:23

Source: A303479-03

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Nitrophenol	2100		380	ug/kg dry	1900	93 U	112	15-140			
Acetophenone	1100		380	ug/kg dry	1900	94 U	58	52-86			
Atrazine	2300	Q	380	ug/kg dry	1900	84 U	123	45-120			QM-07
Benzaldehyde	1200		380	ug/kg dry	1900	110 U	62	45-99			
Bis(2-chloroethoxy)methane	1200		380	ug/kg dry	1900	73 U	64	45-110			
Bis(2-chloroethyl)ether	1100		380	ug/kg dry	1900	100 U	60	40-105			
Bis(2-chloroisopropyl)ether	1100		380	ug/kg dry	1900	93 U	58	20-115			
Bis(2-ethylhexyl)phthalate	2200		380	ug/kg dry	1900	97 U	114	45-125			
Butylbenzylphthalate	2300		380	ug/kg dry	1900	110 U	123	50-125			
Caprolactam	2600	Q	380	ug/kg dry	1900	110 U	135	14-125			QM-07
Carbazole	1900		380	ug/kg dry	1900	77 U	102	45-115			
Dibenzofuran	1500		380	ug/kg dry	1900	75 U	81	50-105			
Diethylphthalate	2000		380	ug/kg dry	1900	85 U	104	50-115			
Dimethylphthalate	1800		380	ug/kg dry	1900	71 U	96	50-110			
Di-n-butylphthalate	2200	Q	380	ug/kg dry	1900	90 U	117	55-110			QM-07
Di-n-octylphthalate	2200		380	ug/kg dry	1900	76 U	114	40-130			
Hexachlorobenzene	1700		380	ug/kg dry	1900	92 U	90	45-120			
Hexachlorobutadiene	980		380	ug/kg dry	1900	91 U	52	40-115			
Hexachlorocyclopentadiene	1200		380	ug/kg dry	1900	110 U	65	10-170			
Hexachloroethane	930		380	ug/kg dry	1900	84 U	49	35-110			
Isophorone	1500		380	ug/kg dry	1900	82 U	79	45-110			
Nitrobenzene	1100		380	ug/kg dry	1900	90 U	59	40-115			
N-Nitroso-di-n-propylamine	1300		380	ug/kg dry	1900	100 U	69	40-115			
N-nitrosodiphenylamine/Diphenylamine	1500		380	ug/kg dry	1900	160 U	81	50-115			
Pentachlorophenol	2000		380	ug/kg dry	1900	160 U	104	25-120			
Phenol	1200		380	ug/kg dry	1900	86 U	65	40-100			
Surrogate: 2,4,6-Tribromophenol	*1800*			*ug/kg dry*	*1900*		*96*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1100*			*ug/kg dry*	*1900*		*58*	*45-105*			
Surrogate: 2-Fluorophenol	*980*			*ug/kg dry*	*1900*		*51*	*35-105*			
Surrogate: Nitrobenzene-d5	*1000*			*ug/kg dry*	*1900*		*54*	*35-100*			
Surrogate: Phenol-d5	*1100*			*ug/kg dry*	*1900*		*59*	*40-100*			
Surrogate: Terphenyl-d14	*2000*			*ug/kg dry*	*1900*		*108*	*30-125*			

Matrix Spike Dup (3F21017-MSD1) Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 13:51

Source: A303479-03

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	1500		380	ug/kg dry	1900	110 U	80	52-100	7	30	
1,2,4,5-Tetrachlorobenzene	1400		380	ug/kg dry	1900	79 U	72	59-81	6	30	
2,3,4,6-Tetrachlorophenol	2100	Q	380	ug/kg dry	1900	84 U	112	18-98	0.7	30	QM-07
2,4,5-Trichlorophenol	1800		380	ug/kg dry	1900	66 U	96	50-110	5	30	
2,4,6-Trichlorophenol	1900		380	ug/kg dry	1900	68 U	100	45-110	11	30	
2,4-Dichlorophenol	1500		380	ug/kg dry	1900	81 U	80	45-110	7	30	
2,4-Dimethylphenol	1400		380	ug/kg dry	1900	84 U	75	30-105	5	30	
2,4-Dinitrophenol	1600		380	ug/kg dry	1900	140 U	85	15-130	2	30	
2,4-Dinitrotoluene	1900		380	ug/kg dry	1900	82 U	101	50-115	2	30	
2,6-Dinitrotoluene	1900		380	ug/kg dry	1900	79 U	101	50-110	8	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F21017 - EPA 3550C_MS

Matrix Spike Dup (3F21017-MSD1) Continued Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 13:51

Source: A303479-03

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chloronaphthalene	1300		380	ug/kg dry	1900	74 U	70	45-105	3	30	
2-Chlorophenol	1300		380	ug/kg dry	1900	93 U	66	45-105	9	30	
2-Methyl-4,6-dinitrophenol	2100		380	ug/kg dry	1900	150 U	108	30-135	0.6	30	
2-Methylphenol	1300		380	ug/kg dry	1900	80 U	71	40-105	10	30	
2-Nitroaniline	1700		380	ug/kg dry	1900	76 U	92	45-120	3	30	
2-Nitrophenol	1200		380	ug/kg dry	1900	89 U	65	40-110	5	30	
3 & 4-Methylphenol	1400		380	ug/kg dry	1900	180 U	75	40-105	12	30	
3,3'-Dichlorobenzidine	1600		380	ug/kg dry	1900	100 U	86	10-130	0.4	30	
3-Nitroaniline	1700		380	ug/kg dry	1900	84 U	88	25-110	2	30	
4-Bromophenyl-phenylether	1800		380	ug/kg dry	1900	83 U	92	45-115	10	30	
4-Chloro-3-methylphenol	1900		380	ug/kg dry	1900	76 U	101	45-115	5	30	
4-Chloroaniline	1000		380	ug/kg dry	1900	100 U	55	10-100	4	30	
4-Chlorophenyl-phenylether	1800		380	ug/kg dry	1900	76 U	93	45-110	4	30	
4-Nitroaniline	1800		380	ug/kg dry	1900	93 U	96	35-115	2	30	
4-Nitrophenol	2000		380	ug/kg dry	1900	93 U	107	15-140	5	30	
Acetophenone	1200		380	ug/kg dry	1900	94 U	64	52-86	9	30	
Atrazine	2200		380	ug/kg dry	1900	84 U	114	45-120	7	30	
Benzaldehyde	1200		380	ug/kg dry	1900	110 U	65	45-99	5	30	
Bis(2-chloroethoxy)methane	1300		380	ug/kg dry	1900	73 U	67	45-110	5	30	
Bis(2-chloroethyl)ether	1100		380	ug/kg dry	1900	100 U	60	40-105	0.2	30	
Bis(2-chloroisopropyl)ether	1000		380	ug/kg dry	1900	93 U	54	20-115	7	30	
Bis(2-ethylhexyl)phthalate	2100		380	ug/kg dry	1900	97 U	109	45-125	4	30	
Butylbenzylphthalate	2300		380	ug/kg dry	1900	110 U	120	50-125	3	30	
Caprolactam	2700	Q	380	ug/kg dry	1900	110 U	140	14-125	3	30	QM-07
Carbazole	1900		380	ug/kg dry	1900	77 U	98	45-115	3	30	
Dibenzofuran	1600		380	ug/kg dry	1900	75 U	85	50-105	5	30	
Diethylphthalate	2000		380	ug/kg dry	1900	85 U	104	50-115	0.9	30	
Dimethylphthalate	1900		380	ug/kg dry	1900	71 U	102	50-110	6	30	
Di-n-butylphthalate	2100		380	ug/kg dry	1900	90 U	109	55-110	7	30	
Di-n-octylphthalate	2200		380	ug/kg dry	1900	76 U	117	40-130	2	30	
Hexachlorobenzene	1700		380	ug/kg dry	1900	92 U	91	45-120	2	30	
Hexachlorobutadiene	900		380	ug/kg dry	1900	91 U	47	40-115	9	30	
Hexachlorocyclopentadiene	1100		380	ug/kg dry	1900	110 U	60	10-170	7	30	
Hexachloroethane	810		380	ug/kg dry	1900	84 U	43	35-110	13	30	
Isophorone	1500		380	ug/kg dry	1900	82 U	81	45-110	3	30	
Nitrobenzene	1100		380	ug/kg dry	1900	90 U	59	40-115	1	30	
N-Nitroso-di-n-propylamine	1300		380	ug/kg dry	1900	100 U	70	40-115	1	30	
N-nitrosodiphenylamine/Diphenylamine	1600		380	ug/kg dry	1900	160 U	84	50-115	4	30	
Pentachlorophenol	2000		380	ug/kg dry	1900	160 U	106	25-120	2	30	
Phenol	1300		380	ug/kg dry	1900	86 U	70	40-100	8	30	
Surrogate: 2,4,6-Tribromophenol	*2000*			*ug/kg dry*	*1900*		*105*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1200*			*ug/kg dry*	*1900*		*65*	*45-105*			
Surrogate: 2-Fluorophenol	*1100*			*ug/kg dry*	*1900*		*57*	*35-105*			
Surrogate: Nitrobenzene-d5	*1000*			*ug/kg dry*	*1900*		*54*	*35-100*			
Surrogate: Phenol-d5	*1300*			*ug/kg dry*	*1900*		*66*	*40-100*			
Surrogate: Terphenyl-d14	*2100*			*ug/kg dry*	*1900*		*110*	*30-125*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F24010 - EPA 3510C_MS

Blank (3F24010-BLK1) Prepared: 06/24/2013 11:05 Analyzed: 07/07/2013 09:04

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	<9.0	U	10	ug/L							
1,2,4,5-Tetrachlorobenzene	<6.0	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	<6.0	U	10	ug/L							
2,4,5-Trichlorophenol	<6.0	U	10	ug/L							
2,4,6-Trichlorophenol	<6.0	U	10	ug/L							
2,4-Dichlorophenol	<6.0	U	10	ug/L							
2,4-Dimethylphenol	<6.0	U	10	ug/L							
2,4-Dinitrophenol	<6.0	U	10	ug/L							
2,4-Dinitrotoluene	<6.0	U	10	ug/L							
2,6-Dinitrotoluene	<3.0	U	10	ug/L							
2-Chloronaphthalene	<3.0	U	10	ug/L							
2-Chlorophenol	<6.0	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	<6.0	U	10	ug/L							
2-Methylphenol	<3.0	U	10	ug/L							
2-Nitroaniline	<3.0	U	10	ug/L							
2-Nitrophenol	<6.0	U	10	ug/L							
3 & 4-Methylphenol	<6.0	U	10	ug/L							
3,3'-Dichlorobenzidine	<6.0	U	10	ug/L							
3-Nitroaniline	<3.0	U	10	ug/L							
4-Bromophenyl-phenylether	<6.0	U	10	ug/L							
4-Chloro-3-methylphenol	<6.0	U	10	ug/L							
4-Chloroaniline	<6.0	U	10	ug/L							
4-Chlorophenyl-phenylether	<6.0	U	10	ug/L							
4-Nitroaniline	<3.0	U	10	ug/L							
4-Nitrophenol	<3.0	U	10	ug/L							
Acetophenone	<3.0	U	10	ug/L							
Atrazine	<3.0	U	10	ug/L							
Benzaldehyde	<6.0	U	10	ug/L							
Bis(2-chloroethoxy)methane	<6.0	U	10	ug/L							
Bis(2-chloroethyl)ether	<6.0	U	10	ug/L							
Bis(2-chloroisopropyl)ether	<6.0	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	<6.0	U	10	ug/L							
Butylbenzylphthalate	<3.0	U	10	ug/L							
Caprolactam	<3.0	U	10	ug/L							
Carbazole	<3.0	U	10	ug/L							
Dibenzofuran	<3.0	U	10	ug/L							
Diethylphthalate	<3.0	U	10	ug/L							
Dimethylphthalate	<3.0	U	10	ug/L							
Di-n-butylphthalate	<3.0	U	10	ug/L							
Di-n-octylphthalate	<6.0	U	10	ug/L							
Hexachlorobenzene	<3.0	U	10	ug/L							
Hexachlorobutadiene	<6.0	U	10	ug/L							
Hexachlorocyclopentadiene	<6.0	U	10	ug/L							
Hexachloroethane	<3.0	U	10	ug/L							
Isophorone	<3.0	U	10	ug/L							
Nitrobenzene	<6.0	U	10	ug/L							
N-Nitroso-di-n-propylamine	<6.0	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	<6.0	U	10	ug/L							
Pentachlorophenol	<9.0	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F24010 - EPA 3510C_MS

Blank (3F24010-BLK1) Continued Prepared: 06/24/2013 11:05 Analyzed: 07/07/2013 09:04

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	<3.0	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*41*			*ug/L*	*50.0*		*82*	*40-125*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*73*	*50-110*			
Surrogate: 2-Fluorophenol	*30*			*ug/L*	*50.0*		*60*	*20-110*			
Surrogate: Nitrobenzene-d5	*40*			*ug/L*	*50.0*		*81*	*40-110*			
Surrogate: Phenol-d5	*24*			*ug/L*	*50.0*		*49*	*10-115*			
Surrogate: Terphenyl-d14	*58*			*ug/L*	*50.0*		*115*	*50-135*			

LCS (3F24010-BS1) Prepared: 06/24/2013 11:05 Analyzed: 07/07/2013 09:32

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	27		10	ug/L	50.0		55	46-83			
1,2,4,5-Tetrachlorobenzene	20		10	ug/L	50.0		40	24-69			
2,3,4,6-Tetrachlorophenol	46		10	ug/L	50.0		93	61-94			
2,4,5-Trichlorophenol	40		10	ug/L	50.0		81	50-110			
2,4,6-Trichlorophenol	43		10	ug/L	50.0		86	50-115			
2,4-Dichlorophenol	38		10	ug/L	50.0		76	50-105			
2,4-Dimethylphenol	38		10	ug/L	50.0		77	30-110			
2,4-Dinitrophenol	39		10	ug/L	50.0		78	15-140			
2,4-Dinitrotoluene	47		10	ug/L	50.0		95	50-120			
2,6-Dinitrotoluene	47		10	ug/L	50.0		93	50-115			
2-Chloronaphthalene	30		10	ug/L	50.0		61	50-105			
2-Chlorophenol	37		10	ug/L	50.0		74	35-105			
2-Methyl-4,6-dinitrophenol	48		10	ug/L	50.0		95	40-130			
2-Methylphenol	33		10	ug/L	50.0		65	40-110			
2-Nitroaniline	45		10	ug/L	50.0		91	50-115			
2-Nitrophenol	37		10	ug/L	50.0		75	40-115			
3 & 4-Methylphenol	30		10	ug/L	50.0		61	30-110			
3,3'-Dichlorobenzidine	48		10	ug/L	50.0		96	20-110			
3-Nitroaniline	45		10	ug/L	50.0		90	20-125			
4-Bromophenyl-phenylether	39		10	ug/L	50.0		78	50-115			
4-Chloro-3-methylphenol	44		10	ug/L	50.0		88	45-110			
4-Chloroaniline	32		10	ug/L	50.0		64	15-110			
4-Chlorophenyl-phenylether	39		10	ug/L	50.0		78	50-110			
4-Nitroaniline	47		10	ug/L	50.0		95	35-120			
4-Nitrophenol	26		10	ug/L	50.0		51	0-125			
Acetophenone	35		10	ug/L	50.0		69	41-92			
Atrazine	57	Q	10	ug/L	50.0		113	47-101			QL-02
Benzaldehyde	37		10	ug/L	50.0		75	43-87			
Bis(2-chloroethoxy)methane	38		10	ug/L	50.0		77	45-105			
Bis(2-chloroethyl)ether	39		10	ug/L	50.0		78	35-110			
Bis(2-chloroisopropyl)ether	35		10	ug/L	50.0		71	25-130			
Bis(2-ethylhexyl)phthalate	57		10	ug/L	50.0		113	40-125			
Butylbenzylphthalate	50		10	ug/L	50.0		100	45-115			
Caprolactam	18		10	ug/L	50.0		36	10-51			
Carbazole	53		10	ug/L	50.0		106	50-115			
Dibenzofuran	36		10	ug/L	50.0		73	55-105			
Diethylphthalate	45		10	ug/L	50.0		90	40-120			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F24010 - EPA 3510C_MS

LCS (3F24010-BS1) Continued Prepared: 06/24/2013 11:05 Analyzed: 07/07/2013 09:32

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dimethylphthalate	30		10	ug/L	50.0		60	25-125			
Di-n-butylphthalate	52		10	ug/L	50.0		105	55-115			
Di-n-octylphthalate	56		10	ug/L	50.0		112	35-135			
Hexachlorobenzene	49		10	ug/L	50.0		99	50-110			
Hexachlorobutadiene	24		10	ug/L	50.0		48	25-105			
Hexachlorocyclopentadiene	24		10	ug/L	50.0		49	10-117			
Hexachloroethane	26		10	ug/L	50.0		52	30-100			
Isophorone	47		10	ug/L	50.0		93	50-110			
Nitrobenzene	37		10	ug/L	50.0		73	45-110			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0		85	35-130			
N-nitrosodiphenylamine/Diphenylamine	39		10	ug/L	50.0		78	50-110			
Pentachlorophenol	47		10	ug/L	50.0		94	40-115			
Phenol	18		10	ug/L	50.0		35	0-115			
Surrogate: 2,4,6-Tribromophenol	*48*			*ug/L*	*50.0*		*95*	*40-125*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*72*	*50-110*			
Surrogate: 2-Fluorophenol	*24*			*ug/L*	*50.0*		*48*	*20-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*74*	*40-110*			
Surrogate: Phenol-d5	*17*			*ug/L*	*50.0*		*33*	*10-115*			
Surrogate: Terphenyl-d14	*57*			*ug/L*	*50.0*		*114*	*50-135*			

LCS Dup (3F24010-BSD1) Prepared: 06/24/2013 11:05 Analyzed: 07/07/2013 10:01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	27		10	ug/L	50.0		54	46-83	0.6	30	
1,2,4,5-Tetrachlorobenzene	20		10	ug/L	50.0		41	24-69	2	30	
2,3,4,6-Tetrachlorophenol	44		10	ug/L	50.0		88	61-94	5	30	
2,4,5-Trichlorophenol	41		10	ug/L	50.0		81	50-110	0.6	30	
2,4,6-Trichlorophenol	41		10	ug/L	50.0		82	50-115	4	30	
2,4-Dichlorophenol	39		10	ug/L	50.0		79	50-105	4	30	
2,4-Dimethylphenol	40		10	ug/L	50.0		79	30-110	3	30	
2,4-Dinitrophenol	40		10	ug/L	50.0		81	15-140	4	30	
2,4-Dinitrotoluene	45		10	ug/L	50.0		90	50-120	5	30	
2,6-Dinitrotoluene	44		10	ug/L	50.0		89	50-115	5	30	
2-Chloronaphthalene	30		10	ug/L	50.0		59	50-105	2	30	
2-Chlorophenol	38		10	ug/L	50.0		76	35-105	3	30	
2-Methyl-4,6-dinitrophenol	48		10	ug/L	50.0		96	40-130	0.4	30	
2-Methylphenol	34		10	ug/L	50.0		68	40-110	4	30	
2-Nitroaniline	43		10	ug/L	50.0		86	50-115	6	30	
2-Nitrophenol	38		10	ug/L	50.0		77	40-115	3	30	
3 & 4-Methylphenol	31		10	ug/L	50.0		62	30-110	3	30	
3,3'-Dichlorobenzidine	45		10	ug/L	50.0		90	20-110	5	30	
3-Nitroaniline	41		10	ug/L	50.0		83	20-125	8	30	
4-Bromophenyl-phenylether	37		10	ug/L	50.0		74	50-115	5	30	
4-Chloro-3-methylphenol	43		10	ug/L	50.0		85	45-110	3	30	
4-Chloroaniline	33		10	ug/L	50.0		65	15-110	2	30	
4-Chlorophenyl-phenylether	38		10	ug/L	50.0		77	50-110	2	30	
4-Nitroaniline	45		10	ug/L	50.0		91	35-120	5	30	
4-Nitrophenol	25		10	ug/L	50.0		50	0-125	3	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3F24010 - EPA 3510C_MS

LCS Dup (3F24010-BSD1) Continued Prepared: 06/24/2013 11:05 Analyzed: 07/07/2013 10:01

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetophenone	36		10	ug/L	50.0		72	41-92	4	30	
Atrazine	56	Q	10	ug/L	50.0		112	47-101	1	30	QL-02
Benzaldehyde	38		10	ug/L	50.0		76	43-87	2	30	
Bis(2-chloroethoxy)methane	40		10	ug/L	50.0		81	45-105	5	30	
Bis(2-chloroethyl)ether	40		10	ug/L	50.0		81	35-110	3	30	
Bis(2-chloroisopropyl)ether	37		10	ug/L	50.0		74	25-130	4	30	
Bis(2-ethylhexyl)phthalate	53		10	ug/L	50.0		106	40-125	6	30	
Butylbenzylphthalate	49		10	ug/L	50.0		97	45-115	3	30	
Caprolactam	17		10	ug/L	50.0		34	10-51	5	30	
Carbazole	50		10	ug/L	50.0		101	50-115	5	30	
Dibenzofuran	35		10	ug/L	50.0		70	55-105	4	30	
Diethylphthalate	42		10	ug/L	50.0		84	40-120	8	30	
Dimethylphthalate	28		10	ug/L	50.0		57	25-125	6	30	
Di-n-butylphthalate	50		10	ug/L	50.0		100	55-115	4	30	
Di-n-octylphthalate	53		10	ug/L	50.0		107	35-135	5	30	
Hexachlorobenzene	45		10	ug/L	50.0		89	50-110	10	30	
Hexachlorobutadiene	25		10	ug/L	50.0		50	25-105	3	30	
Hexachlorocyclopentadiene	25		10	ug/L	50.0		51	10-117	4	30	
Hexachloroethane	26		10	ug/L	50.0		52	30-100	0.9	30	
Isophorone	46		10	ug/L	50.0		93	50-110	0.7	30	
Nitrobenzene	36		10	ug/L	50.0		73	45-110	0.7	30	
N-Nitroso-di-n-propylamine	45		10	ug/L	50.0		89	35-130	6	30	
N-nitrosodiphenylamine/Diphenylamine	38		10	ug/L	50.0		75	50-110	4	30	
Pentachlorophenol	47		10	ug/L	50.0		94	40-115	0.3	30	
Phenol	18		10	ug/L	50.0		36	0-115	2	30	
Surrogate: 2,4,6-Tribromophenol	*47*			*ug/L*	*50.0*		*93*	*40-125*			
Surrogate: 2-Fluorobiphenyl	*35*			*ug/L*	*50.0*		*69*	*50-110*			
Surrogate: 2-Fluorophenol	*24*			*ug/L*	*50.0*		*49*	*20-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*74*	*40-110*			
Surrogate: Phenol-d5	*17*			*ug/L*	*50.0*		*34*	*10-115*			
Surrogate: Terphenyl-d14	*55*			*ug/L*	*50.0*		*111*	*50-135*			

Batch 3G08001 - EPA 3550C_MS

Blank (3G08001-BLK1) Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 08:54

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	<100	U	330	ug/kg wet							
1,2,4,5-Tetrachlorobenzene	<100	U	330	ug/kg wet							
2,3,4,6-Tetrachlorophenol	<200	U	330	ug/kg wet							
2,4,5-Trichlorophenol	<100	U	330	ug/kg wet							
2,4,6-Trichlorophenol	<100	U	330	ug/kg wet							
2,4-Dichlorophenol	<100	U	330	ug/kg wet							
2,4-Dimethylphenol	<100	U	330	ug/kg wet							
2,4-Dinitrophenol	<300	U	330	ug/kg wet							
2,4-Dinitrotoluene	<100	U	330	ug/kg wet							
2,6-Dinitrotoluene	<100	U	330	ug/kg wet							
2-Chloronaphthalene	<100	U	330	ug/kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3G08001 - EPA 3550C_MS

Blank (3G08001-BLK1) Continued Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 08:54

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	<100	U	330	ug/kg wet							
2-Methyl-4,6-dinitrophenol	<300	U	330	ug/kg wet							
2-Methylphenol	<100	U	330	ug/kg wet							
2-Nitroaniline	<100	U	330	ug/kg wet							
2-Nitrophenol	<100	U	330	ug/kg wet							
3 & 4-Methylphenol	<200	U	330	ug/kg wet							
3,3'-Dichlorobenzidine	<100	U	330	ug/kg wet							
3-Nitroaniline	<100	U	330	ug/kg wet							
4-Bromophenyl-phenylether	<100	U	330	ug/kg wet							
4-Chloro-3-methylphenol	<100	U	330	ug/kg wet							
4-Chloroaniline	<100	U	330	ug/kg wet							
4-Chlorophenyl-phenylether	<100	U	330	ug/kg wet							
4-Nitroaniline	<100	U	330	ug/kg wet							
4-Nitrophenol	<100	U	330	ug/kg wet							
Acetophenone	<100	U	330	ug/kg wet							
Atrazine	<100	U	330	ug/kg wet							
Benzaldehyde	<100	U	330	ug/kg wet							
Bis(2-chloroethoxy)methane	<100	U	330	ug/kg wet							
Bis(2-chloroethyl)ether	<100	U	330	ug/kg wet							
Bis(2-chloroisopropyl)ether	<100	U	330	ug/kg wet							
Bis(2-ethylhexyl)phthalate	<100	U	330	ug/kg wet							
Butylbenzylphthalate	<100	U	330	ug/kg wet							
Caprolactam	<200	U	330	ug/kg wet							
Carbazole	<100	U	330	ug/kg wet							
Dibenzofuran	<100	U	330	ug/kg wet							
Diethylphthalate	<100	U	330	ug/kg wet							
Dimethylphthalate	<100	U	330	ug/kg wet							
Di-n-butylphthalate	<100	U	330	ug/kg wet							
Di-n-octylphthalate	<100	U	330	ug/kg wet							
Hexachlorobenzene	<100	U	330	ug/kg wet							
Hexachlorobutadiene	<100	U	330	ug/kg wet							
Hexachlorocyclopentadiene	<100	U	330	ug/kg wet							
Hexachloroethane	<100	U	330	ug/kg wet							
Isophorone	<100	U	330	ug/kg wet							
Nitrobenzene	<100	U	330	ug/kg wet							
N-Nitroso-di-n-propylamine	<100	U	330	ug/kg wet							
N-nitrosodiphenylamine/Diphenylamine	<200	U	330	ug/kg wet							
Pentachlorophenol	<300	U	330	ug/kg wet							
Phenol	<100	U	330	ug/kg wet							
Surrogate: 2,4,6-Tribromophenol	*920*			*ug/kg wet*	*1670*		*55*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*960*			*ug/kg wet*	*1670*		*58*	*45-105*			
Surrogate: 2-Fluorophenol	*940*			*ug/kg wet*	*1670*		*57*	*35-105*			
Surrogate: Nitrobenzene-d5	*930*			*ug/kg wet*	*1670*		*56*	*35-100*			
Surrogate: Phenol-d5	*1000*			*ug/kg wet*	*1670*		*62*	*40-100*			
Surrogate: Terphenyl-d14	*1700*			*ug/kg wet*	*1670*		*103*	*30-125*			

LCS (3G08001-BS1) Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 09:23

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3G08001 - EPA 3550C_MS

LCS (3G08001-BS1) Continued Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 09:23

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	1400		330	ug/kg wet	1670		87	52-100			
1,2,4,5-Tetrachlorobenzene	1400	Q	330	ug/kg wet	1670		87	59-81			QL-02
2,3,4,6-Tetrachlorophenol	1500		330	ug/kg wet	1670		92	18-98			
2,4,5-Trichlorophenol	1400		330	ug/kg wet	1670		82	50-110			
2,4,6-Trichlorophenol	1400		330	ug/kg wet	1670		84	45-110			
2,4-Dichlorophenol	1400		330	ug/kg wet	1670		83	45-110			
2,4-Dimethylphenol	1200		330	ug/kg wet	1670		72	30-105			
2,4-Dinitrophenol	910		330	ug/kg wet	1670		55	15-130			
2,4-Dinitrotoluene	1300		330	ug/kg wet	1670		79	50-115			
2,6-Dinitrotoluene	1400		330	ug/kg wet	1670		83	50-110			
2-Chloronaphthalene	1300		330	ug/kg wet	1670		77	45-105			
2-Chlorophenol	1400		330	ug/kg wet	1670		84	45-105			
2-Methyl-4,6-dinitrophenol	1400		330	ug/kg wet	1670		85	30-135			
2-Methylphenol	1300		330	ug/kg wet	1670		79	40-105			
2-Nitroaniline	1400		330	ug/kg wet	1670		82	45-120			
2-Nitrophenol	1400		330	ug/kg wet	1670		84	40-110			
3 & 4-Methylphenol	1300		330	ug/kg wet	1670		81	40-105			
3,3'-Dichlorobenzidine	1300		330	ug/kg wet	1670		75	10-130			
3-Nitroaniline	1200		330	ug/kg wet	1670		72	25-110			
4-Bromophenyl-phenylether	1300		330	ug/kg wet	1670		76	45-115			
4-Chloro-3-methylphenol	1400		330	ug/kg wet	1670		84	45-115			
4-Chloroaniline	960		330	ug/kg wet	1670		58	10-100			
4-Chlorophenyl-phenylether	1400		330	ug/kg wet	1670		85	45-110			
4-Nitroaniline	1300		330	ug/kg wet	1670		75	35-115			
4-Nitrophenol	1500		330	ug/kg wet	1670		87	15-140			
Acetophenone	1400		330	ug/kg wet	1670		81	52-86			
Atrazine	1700		330	ug/kg wet	1670		103	45-120			
Benzaldehyde	1500		330	ug/kg wet	1670		90	45-99			
Bis(2-chloroethoxy)methane	1400		330	ug/kg wet	1670		83	45-110			
Bis(2-chloroethyl)ether	1400		330	ug/kg wet	1670		82	40-105			
Bis(2-chloroisopropyl)ether	1300		330	ug/kg wet	1670		79	20-115			
Bis(2-ethylhexyl)phthalate	1600		330	ug/kg wet	1670		95	45-125			
Butylbenzylphthalate	1600		330	ug/kg wet	1670		98	50-125			
Caprolactam	1900		330	ug/kg wet	1670		114	14-125			
Carbazole	1400		330	ug/kg wet	1670		87	45-115			
Dibenzofuran	1300		330	ug/kg wet	1670		79	50-105			
Diethylphthalate	1500		330	ug/kg wet	1670		87	50-115			
Dimethylphthalate	1400		330	ug/kg wet	1670		84	50-110			
Di-n-butylphthalate	1600		330	ug/kg wet	1670		94	55-110			
Di-n-octylphthalate	1600		330	ug/kg wet	1670		98	40-130			
Hexachlorobenzene	1400		330	ug/kg wet	1670		87	45-120			
Hexachlorobutadiene	1300		330	ug/kg wet	1670		75	40-115			
Hexachlorocyclopentadiene	1600		330	ug/kg wet	1670		96	10-170			
Hexachloroethane	1200		330	ug/kg wet	1670		74	35-110			
Isophorone	1500		330	ug/kg wet	1670		91	45-110			
Nitrobenzene	1300		330	ug/kg wet	1670		79	40-115			
N-Nitroso-di-n-propylamine	1400		330	ug/kg wet	1670		87	40-115			
N-nitrosodiphenylamine/Diphenylamine	1200		330	ug/kg wet	1670		72	50-115			
Pentachlorophenol	1300		330	ug/kg wet	1670		79	25-120			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3G08001 - EPA 3550C_MS

LCS (3G08001-BS1) Continued Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 09:23

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	1300		330	ug/kg wet	1670		81	40-100			
Surrogate: 2,4,6-Tribromophenol	*1500*			*ug/kg wet*	*1670*		*90*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1400*			*ug/kg wet*	*1670*		*86*	*45-105*			
Surrogate: 2-Fluorophenol	*1300*			*ug/kg wet*	*1670*		*79*	*35-105*			
Surrogate: Nitrobenzene-d5	*1400*			*ug/kg wet*	*1670*		*82*	*35-100*			
Surrogate: Phenol-d5	*1400*			*ug/kg wet*	*1670*		*85*	*40-100*			
Surrogate: Terphenyl-d14	*1800*			*ug/kg wet*	*1670*		*109*	*30-125*			

LCS Dup (3G08001-BSD1) Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 09:51

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	1600		330	ug/kg wet	1670		95	52-100	9	30	
1,2,4,5-Tetrachlorobenzene	1600	Q	330	ug/kg wet	1670		94	59-81	8	30	QL-02
2,3,4,6-Tetrachlorophenol	1600		330	ug/kg wet	1670		97	18-98	5	30	
2,4,5-Trichlorophenol	1500		330	ug/kg wet	1670		87	50-110	6	30	
2,4,6-Trichlorophenol	1600		330	ug/kg wet	1670		94	45-110	10	30	
2,4-Dichlorophenol	1500		330	ug/kg wet	1670		91	45-110	9	30	
2,4-Dimethylphenol	1400		330	ug/kg wet	1670		82	30-105	13	30	
2,4-Dinitrophenol	890		330	ug/kg wet	1670		54	15-130	2	30	
2,4-Dinitrotoluene	1300		330	ug/kg wet	1670		81	50-115	2	30	
2,6-Dinitrotoluene	1400		330	ug/kg wet	1670		86	50-110	4	30	
2-Chloronaphthalene	1400		330	ug/kg wet	1670		84	45-105	9	30	
2-Chlorophenol	1600		330	ug/kg wet	1670		95	45-105	12	30	
2-Methyl-4,6-dinitrophenol	1400		330	ug/kg wet	1670		83	30-135	2	30	
2-Methylphenol	1400		330	ug/kg wet	1670		87	40-105	10	30	
2-Nitroaniline	1500		330	ug/kg wet	1670		89	45-120	8	30	
2-Nitrophenol	1500		330	ug/kg wet	1670		93	40-110	10	30	
3 & 4-Methylphenol	1500		330	ug/kg wet	1670		90	40-105	12	30	
3,3'-Dichlorobenzidine	1400		330	ug/kg wet	1670		84	10-130	11	30	
3-Nitroaniline	1300		330	ug/kg wet	1670		75	25-110	5	30	
4-Bromophenyl-phenylether	1400		330	ug/kg wet	1670		82	45-115	8	30	
4-Chloro-3-methylphenol	1500		330	ug/kg wet	1670		92	45-115	9	30	
4-Chloroaniline	1100		330	ug/kg wet	1670		67	10-100	16	30	
4-Chlorophenyl-phenylether	1500		330	ug/kg wet	1670		90	45-110	5	30	
4-Nitroaniline	1300		330	ug/kg wet	1670		75	35-115	0.5	30	
4-Nitrophenol	1500		330	ug/kg wet	1670		89	15-140	2	30	
Acetophenone	1500	Q	330	ug/kg wet	1670		90	52-86	10	30	QL-02
Atrazine	1800		330	ug/kg wet	1670		107	45-120	3	30	
Benzaldehyde	1700	Q	330	ug/kg wet	1670		101	45-99	11	30	QL-02
Bis(2-chloroethoxy)methane	1500		330	ug/kg wet	1670		90	45-110	9	30	
Bis(2-chloroethyl)ether	1500		330	ug/kg wet	1670		91	40-105	11	30	
Bis(2-chloroisopropyl)ether	1400		330	ug/kg wet	1670		87	20-115	10	30	
Bis(2-ethylhexyl)phthalate	1700		330	ug/kg wet	1670		101	45-125	7	30	
Butylbenzylphthalate	1600		330	ug/kg wet	1670		97	50-125	0.6	30	
Caprolactam	2000		330	ug/kg wet	1670		117	14-125	2	30	
Carbazole	1400		330	ug/kg wet	1670		86	45-115	0.4	30	
Dibenzofuran	1400		330	ug/kg wet	1670		86	50-105	8	30	
Diethylphthalate	1500		330	ug/kg wet	1670		90	50-115	4	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3G08001 - EPA 3550C_MS

LCS Dup (3G08001-BSD1) Continued Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 09:51

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dimethylphthalate	1500		330	ug/kg wet	1670		91	50-110	8	30	
Di-n-butylphthalate	1700		330	ug/kg wet	1670		99	55-110	6	30	
Di-n-octylphthalate	1700		330	ug/kg wet	1670		104	40-130	6	30	
Hexachlorobenzene	1600		330	ug/kg wet	1670		94	45-120	8	30	
Hexachlorobutadiene	1400		330	ug/kg wet	1670		82	40-115	9	30	
Hexachlorocyclopentadiene	1800		330	ug/kg wet	1670		106	10-170	10	30	
Hexachloroethane	1400		330	ug/kg wet	1670		81	35-110	10	30	
Isophorone	1700		330	ug/kg wet	1670		99	45-110	8	30	
Nitrobenzene	1400		330	ug/kg wet	1670		85	40-115	7	30	
N-Nitroso-di-n-propylamine	1600		330	ug/kg wet	1670		96	40-115	10	30	
N-nitrosodiphenylamine/Diphenylamine	1200		330	ug/kg wet	1670		74	50-115	3	30	
Pentachlorophenol	1400		330	ug/kg wet	1670		83	25-120	6	30	
Phenol	1500		330	ug/kg wet	1670		89	40-100	10	30	
Surrogate: 2,4,6-Tribromophenol	*1600*			*ug/kg wet*	*1670*		*95*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1600*			*ug/kg wet*	*1670*		*97*	*45-105*			
Surrogate: 2-Fluorophenol	*1500*			*ug/kg wet*	*1670*		*92*	*35-105*			
Surrogate: Nitrobenzene-d5	*1600*			*ug/kg wet*	*1670*		*94*	*35-100*			
Surrogate: Phenol-d5	*1600*			*ug/kg wet*	*1670*		*98*	*40-100*			
Surrogate: Terphenyl-d14	*1800*			*ug/kg wet*	*1670*		*109*	*30-125*			

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 3F21017 - EPA 3550C_MS

Blank (3F21017-BLK1) Prepared: 06/21/2013 11:30 Analyzed: 07/06/2013 12:26

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0**	**U**		ug/kg wet							

Batch 3F24010 - EPA 3510C_MS

Blank (3F24010-BLK1) Prepared: 06/24/2013 11:05 Analyzed: 07/07/2013 09:04

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		ug/L							

Batch 3G08001 - EPA 3550C_MS

Blank (3G08001-BLK1) Prepared: 07/08/2013 01:00 Analyzed: 07/08/2013 08:54

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0**	**U**		ug/kg wet							

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 3F21019 - EPA 3510C_MS

Blank (3F21019-BLK1) Prepared: 06/21/2013 11:20 Analyzed: 06/25/2013 09:05

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 3F21019 - EPA 3510C_MS

Blank (3F21019-BLK1) Continued Prepared: 06/21/2013 11:20 Analyzed: 06/25/2013 09:05

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	<0.080	U	0.10	ug/L							
Acenaphthene	<0.080	U	0.10	ug/L							
Acenaphthylene	<0.080	U	0.10	ug/L							
Anthracene	<0.080	U	0.10	ug/L							
Benzo(a)anthracene	<0.080	U	0.10	ug/L							
Benzo(a)pyrene	<0.080	U	0.10	ug/L							
Benzo(b)fluoranthene	<0.080	U	0.10	ug/L							
Benzo(g,h,i)perylene	<0.080	U	0.10	ug/L							
Benzo(k)fluoranthene	<0.080	U	0.10	ug/L							
Chrysene	<0.080	U	0.10	ug/L							
Dibenzo(a,h)anthracene	<0.080	U	0.10	ug/L							
Fluoranthene	<0.080	U	0.10	ug/L							
Fluorene	<0.080	U	0.10	ug/L							
Indeno(1,2,3-cd)pyrene	<0.080	U	0.10	ug/L							
Naphthalene	<0.080	U	0.10	ug/L							
Phenanthrene	<0.080	U	0.10	ug/L							
Pyrene	<0.080	U	0.10	ug/L							
Surrogate: p-Terphenyl	*3.9*			*ug/L*	*4.00*		*98*	*70-130*			

LCS (3F21019-BS1) Prepared: 06/21/2013 11:20 Analyzed: 06/25/2013 10:10

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	2.7		0.10	ug/L	4.00		67	45-105			
Acenaphthene	3.4		0.10	ug/L	4.00		84	45-110			
Acenaphthylene	3.5		0.10	ug/L	4.00		87	50-105			
Anthracene	3.7		0.10	ug/L	4.00		93	55-110			
Benzo(a)anthracene	3.7		0.10	ug/L	4.00		93	55-110			
Benzo(a)pyrene	4.6	Q	0.10	ug/L	4.00		116	55-110			QL-02
Benzo(b)fluoranthene	3.9		0.10	ug/L	4.00		98	45-120			
Benzo(g,h,i)perylene	3.3		0.10	ug/L	4.00		82	40-125			
Benzo(k)fluoranthene	4.2		0.10	ug/L	4.00		106	45-125			
Chrysene	4.1		0.10	ug/L	4.00		102	55-110			
Dibenzo(a,h)anthracene	3.1		0.10	ug/L	4.00		78	40-125			
Fluoranthene	3.7		0.10	ug/L	4.00		91	55-115			
Fluorene	3.2		0.10	ug/L	4.00		80	50-110			
Indeno(1,2,3-cd)pyrene	3.3		0.10	ug/L	4.00		83	45-125			
Naphthalene	3.2		0.10	ug/L	4.00		79	40-100			
Phenanthrene	3.5		0.10	ug/L	4.00		86	50-115			
Pyrene	3.8		0.10	ug/L	4.00		96	50-130			
Surrogate: p-Terphenyl	*3.7*			*ug/L*	*4.00*		*92*	*70-130*			

LCS Dup (3F21019-BSD1) Prepared: 06/21/2013 11:20 Analyzed: 06/25/2013 11:15

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	2.8		0.10	ug/L	4.00		69	45-105	3	30	
Acenaphthene	3.5		0.10	ug/L	4.00		86	45-110	2	30	
Acenaphthylene	3.6		0.10	ug/L	4.00		89	50-105	2	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 3F21019 - EPA 3510C_MS

LCS Dup (3F21019-BSD1) Continued Prepared: 06/21/2013 11:20 Analyzed: 06/25/2013 11:15

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Anthracene	3.8		0.10	ug/L	4.00		94	55-110	1	30	
Benzo(a)anthracene	3.8		0.10	ug/L	4.00		94	55-110	2	30	
Benzo(a)pyrene	4.6	Q	0.10	ug/L	4.00		116	55-110	0.5	30	QL-02
Benzo(b)fluoranthene	3.9		0.10	ug/L	4.00		97	45-120	0.3	30	
Benzo(g,h,i)perylene	3.3		0.10	ug/L	4.00		83	40-125	1	30	
Benzo(k)fluoranthene	4.4		0.10	ug/L	4.00		110	45-125	4	30	
Chrysene	4.1		0.10	ug/L	4.00		103	55-110	1	30	
Dibenzo(a,h)anthracene	3.2		0.10	ug/L	4.00		81	40-125	3	30	
Fluoranthene	3.7		0.10	ug/L	4.00		92	55-115	0.8	30	
Fluorene	3.3		0.10	ug/L	4.00		82	50-110	3	30	
Indeno(1,2,3-cd)pyrene	3.4		0.10	ug/L	4.00		84	45-125	1	30	
Naphthalene	3.2		0.10	ug/L	4.00		81	40-100	2	30	
Phenanthrene	3.5		0.10	ug/L	4.00		86	50-115	0.2	30	
Pyrene	3.8		0.10	ug/L	4.00		96	50-130	0.7	30	
Surrogate: p-Terphenyl	*3.7*			*ug/L*	*4.00*		*93*	*70-130*			

Batch 3F24006 - EPA 3550C_MS

Blank (3F24006-BLK1) Prepared: 06/24/2013 09:00 Analyzed: 07/03/2013 08:36

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	<25	U	35	ug/kg wet							
Acenaphthene	<25	U	35	ug/kg wet							
Acenaphthylene	<25	U	35	ug/kg wet							
Anthracene	<25	U	35	ug/kg wet							
Benzo(a)anthracene	<25	U	35	ug/kg wet							
Benzo(a)pyrene	<25	U	35	ug/kg wet							
Benzo(b)fluoranthene	<25	U	35	ug/kg wet							
Benzo(g,h,i)perylene	<25	U	35	ug/kg wet							
Benzo(k)fluoranthene	<25	U	35	ug/kg wet							
Chrysene	<25	U	35	ug/kg wet							
Dibenzo(a,h)anthracene	<25	U	35	ug/kg wet							
Fluoranthene	<25	U	35	ug/kg wet							
Fluorene	<25	U	35	ug/kg wet							
Indeno(1,2,3-cd)pyrene	<25	U	35	ug/kg wet							
Naphthalene	<25	U	35	ug/kg wet							
Phenanthrene	<25	U	35	ug/kg wet							
Pyrene	<25	U	35	ug/kg wet							
Surrogate: p-Terphenyl	*1700*			*ug/kg wet*	*2000*		*83*	*50-150*			

LCS (3F24006-BS1) Prepared: 06/24/2013 09:00 Analyzed: 07/03/2013 10:27

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	1300		35	ug/kg wet	2000		63	45-105			
Acenaphthene	1700		35	ug/kg wet	2000		84	45-110			
Acenaphthylene	1700		35	ug/kg wet	2000		86	45-105			
Anthracene	1700		35	ug/kg wet	2000		86	55-105			
Benzo(a)anthracene	1700		35	ug/kg wet	2000		87	50-110			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 3F24006 - EPA 3550C_MS

LCS (3F24006-BS1) Continued Prepared: 06/24/2013 09:00 Analyzed: 07/03/2013 10:27

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzo(a)pyrene	1900		35	ug/kg wet	2000		96	50-110			
Benzo(b)fluoranthene	1600		35	ug/kg wet	2000		79	45-115			
Benzo(g,h,i)perylene	1600		35	ug/kg wet	2000		80	40-125			
Benzo(k)fluoranthene	2100		35	ug/kg wet	2000		103	45-125			
Chrysene	1800		35	ug/kg wet	2000		92	55-110			
Dibenzo(a,h)anthracene	1700		35	ug/kg wet	2000		86	40-125			
Fluoranthene	1700		35	ug/kg wet	2000		86	55-115			
Fluorene	1600		35	ug/kg wet	2000		81	50-110			
Indeno(1,2,3-cd)pyrene	1700		35	ug/kg wet	2000		83	40-120			
Naphthalene	1500		35	ug/kg wet	2000		77	40-105			
Phenanthrene	1700		35	ug/kg wet	2000		85	50-110			
Pyrene	1800		35	ug/kg wet	2000		88	45-125			
Surrogate: p-Terphenyl	*1900*			*ug/kg wet*	*2000*		*96*	*50-150*			

LCS Dup (3F24006-BSD1) Prepared: 06/24/2013 09:00 Analyzed: 07/03/2013 10:49

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	1200		35	ug/kg wet	2000		58	45-105	7	30	
Acenaphthene	1600		35	ug/kg wet	2000		78	45-110	8	30	
Acenaphthylene	1600		35	ug/kg wet	2000		82	45-105	4	30	
Anthracene	1600		35	ug/kg wet	2000		81	55-105	6	30	
Benzo(a)anthracene	1600		35	ug/kg wet	2000		82	50-110	6	30	
Benzo(a)pyrene	1800		35	ug/kg wet	2000		90	50-110	6	30	
Benzo(b)fluoranthene	1600		35	ug/kg wet	2000		79	45-115	0.1	30	
Benzo(g,h,i)perylene	1500		35	ug/kg wet	2000		75	40-125	6	30	
Benzo(k)fluoranthene	1800		35	ug/kg wet	2000		92	45-125	11	30	
Chrysene	1800		35	ug/kg wet	2000		88	55-110	4	30	
Dibenzo(a,h)anthracene	1600		35	ug/kg wet	2000		80	40-125	6	30	
Fluoranthene	1600		35	ug/kg wet	2000		80	55-115	7	30	
Fluorene	1500		35	ug/kg wet	2000		77	50-110	5	30	
Indeno(1,2,3-cd)pyrene	1600		35	ug/kg wet	2000		78	40-120	6	30	
Naphthalene	1500		35	ug/kg wet	2000		73	40-105	5	30	
Phenanthrene	1600		35	ug/kg wet	2000		81	50-110	6	30	
Pyrene	1700		35	ug/kg wet	2000		84	45-125	5	30	
Surrogate: p-Terphenyl	*1800*			*ug/kg wet*	*2000*		*90*	*50-150*			

Organochlorine Pesticides by GC - Quality Control

Batch 3F24028 - EPA 3550C

Blank (3F24028-BLK1) Prepared: 06/24/2013 13:45 Analyzed: 06/26/2013 11:54

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<1.0	U	1.7	ug/kg wet							
4,4'-DDE	<1.0	U	1.7	ug/kg wet							
4,4'-DDT	<1.0	U	1.7	ug/kg wet							
Aldrin	<1.0	U	1.7	ug/kg wet							
alpha-BHC	<1.0	U	1.7	ug/kg wet							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 3F24028 - EPA 3550C

Blank (3F24028-BLK1) Continued Prepared: 06/24/2013 13:45 Analyzed: 06/26/2013 11:54

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
beta-BHC	<1.0	U	1.7	ug/kg wet							
Chlordane-alpha	<1.0	U	1.7	ug/kg wet							
Chlordane-gamma	<1.0	U	1.7	ug/kg wet							
delta-BHC	<1.0	U	1.7	ug/kg wet							
Dieldrin	<1.0	U	1.7	ug/kg wet							
Endosulfan I	<1.0	U	1.7	ug/kg wet							
Endosulfan II	<1.0	U	1.7	ug/kg wet							
Endosulfan sulfate	<1.0	U	1.7	ug/kg wet							
Endrin	<1.0	U	1.7	ug/kg wet							
Endrin aldehyde	<1.0	U	1.7	ug/kg wet							
Endrin ketone	<1.0	U	1.7	ug/kg wet							
gamma-BHC	<1.0	U	1.7	ug/kg wet							
Heptachlor	<1.0	U	1.7	ug/kg wet							
Heptachlor epoxide	<1.0	U	1.7	ug/kg wet							
Methoxychlor	<1.0	U	1.7	ug/kg wet							
Toxaphene	<20	U	33	ug/kg wet							
Surrogate: 2,4,5,6-TCMX	*45*	*Q*		*ug/kg wet*	*33.3*		*134*	*70-125*			*QS-03*
Surrogate: 2,4,5,6-TCMX [2C]	*47*	*Q*		*ug/kg wet*	*33.3*		*140*	*70-125*			*QS-03*
Surrogate: Decachlorobiphenyl	*48*	*Q*		*ug/kg wet*	*33.3*		*144*	*55-130*			*QS-03*
Surrogate: Decachlorobiphenyl [2C]	*47*	*Q*		*ug/kg wet*	*33.3*		*140*	*55-130*			*QS-03*

LCS (3F24028-BS1) Prepared: 06/24/2013 13:45 Analyzed: 06/26/2013 12:06

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	33		1.7	ug/kg wet	33.3		99	30-135			
4,4'-DDE	38		1.7	ug/kg wet	33.3		115	70-125			
4,4'-DDT	29		1.7	ug/kg wet	33.3		86	45-140			
Aldrin	39		1.7	ug/kg wet	33.3		117	45-140			
alpha-BHC	39		1.7	ug/kg wet	33.3		118	60-125			
beta-BHC	34		1.7	ug/kg wet	33.3		101	60-125			
Chlordane-alpha	36		1.7	ug/kg wet	33.3		109	65-120			
Chlordane-gamma	36		1.7	ug/kg wet	33.3		108	65-125			
delta-BHC	38		1.7	ug/kg wet	33.3		114	55-130			
Dieldrin	38		1.7	ug/kg wet	33.3		115	65-125			
Endosulfan I	36		1.7	ug/kg wet	33.3		109	15-135			
Endosulfan II	32		1.7	ug/kg wet	33.3		95	35-140			
Endosulfan sulfate	30		1.7	ug/kg wet	33.3		90	60-135			
Endrin	35		1.7	ug/kg wet	33.3		105	60-135			
Endrin aldehyde	31		1.7	ug/kg wet	33.3		94	35-145			
Endrin ketone	28		1.7	ug/kg wet	33.3		84	65-135			
gamma-BHC	35		1.7	ug/kg wet	33.3		104	60-125			
Heptachlor	31		1.7	ug/kg wet	33.3		92	50-140			
Heptachlor epoxide	36		1.7	ug/kg wet	33.3		107	65-130			
Methoxychlor	27		1.7	ug/kg wet	33.3		81	55-145			
Surrogate: 2,4,5,6-TCMX	*36*			*ug/kg wet*	*33.3*		*109*	*70-125*			
Surrogate: 2,4,5,6-TCMX [2C]	*36*			*ug/kg wet*	*33.3*		*109*	*70-125*			
Surrogate: Decachlorobiphenyl	*36*			*ug/kg wet*	*33.3*		*107*	*55-130*			
Surrogate: Decachlorobiphenyl [2C]	*34*			*ug/kg wet*	*33.3*		*101*	*55-130*			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 3F24028 - EPA 3550C

LCS Dup (3F24028-BSD1) Prepared: 06/24/2013 13:45 Analyzed: 06/26/2013 12:18

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	33		1.7	ug/kg wet	33.3		98	30-135	1	30	
4,4'-DDE	34		1.7	ug/kg wet	33.3		103	70-125	12	30	
4,4'-DDT	30		1.7	ug/kg wet	33.3		89	45-140	4	30	
Aldrin	35		1.7	ug/kg wet	33.3		106	45-140	9	30	
alpha-BHC	38		1.7	ug/kg wet	33.3		113	60-125	4	30	
beta-BHC	33		1.7	ug/kg wet	33.3		100	60-125	1	30	
Chlordane-alpha	35		1.7	ug/kg wet	33.3		106	65-120	3	30	
Chlordane-gamma	36		1.7	ug/kg wet	33.3		107	65-125	1	30	
delta-BHC	38		1.7	ug/kg wet	33.3		113	55-130	1	30	
Dieldrin	37		1.7	ug/kg wet	33.3		111	65-125	4	30	
Endosulfan I	35		1.7	ug/kg wet	33.3		105	15-135	4	30	
Endosulfan II	32		1.7	ug/kg wet	33.3		96	35-140	0.5	30	
Endosulfan sulfate	30		1.7	ug/kg wet	33.3		89	60-135	0.4	30	
Endrin	34		1.7	ug/kg wet	33.3		103	60-135	3	30	
Endrin aldehyde	32		1.7	ug/kg wet	33.3		96	35-145	2	30	
Endrin ketone	27		1.7	ug/kg wet	33.3		81	65-135	3	30	
gamma-BHC	35		1.7	ug/kg wet	33.3		104	60-125	0	30	
Heptachlor	30		1.7	ug/kg wet	33.3		89	50-140	3	30	
Heptachlor epoxide	34		1.7	ug/kg wet	33.3		102	65-130	5	30	
Methoxychlor	28		1.7	ug/kg wet	33.3		83	55-145	3	30	
Surrogate: 2,4,5,6-TCMX	*32*			*ug/kg wet*	*33.3*		*97*	*70-125*			
Surrogate: 2,4,5,6-TCMX [2C]	*32*			*ug/kg wet*	*33.3*		*95*	*70-125*			
Surrogate: Decachlorobiphenyl	*32*			*ug/kg wet*	*33.3*		*96*	*55-130*			
Surrogate: Decachlorobiphenyl [2C]	*30*			*ug/kg wet*	*33.3*		*89*	*55-130*			

Batch 3F28005 - EPA 3550C

Blank (3F28005-BLK1) Prepared: 06/28/2013 01:30 Analyzed: 06/29/2013 09:47

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<1.0	U	1.7	ug/kg wet							
4,4'-DDE	<1.0	U	1.7	ug/kg wet							
4,4'-DDT	<1.0	U	1.7	ug/kg wet							
Aldrin	<1.0	U	1.7	ug/kg wet							
alpha-BHC	<1.0	U	1.7	ug/kg wet							
beta-BHC	<1.0	U	1.7	ug/kg wet							
Chlordane-alpha	<1.0	U	1.7	ug/kg wet							
Chlordane-gamma	<1.0	U	1.7	ug/kg wet							
delta-BHC	<1.0	U	1.7	ug/kg wet							
Dieldrin	<1.0	U	1.7	ug/kg wet							
Endosulfan I	<1.0	U	1.7	ug/kg wet							
Endosulfan II	<1.0	U	1.7	ug/kg wet							
Endosulfan sulfate	<1.0	U	1.7	ug/kg wet							
Endrin	<1.0	U	1.7	ug/kg wet							
Endrin aldehyde	<1.0	U	1.7	ug/kg wet							
Endrin ketone	<1.0	U	1.7	ug/kg wet							
gamma-BHC	<1.0	U	1.7	ug/kg wet							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 3F28005 - EPA 3550C

Blank (3F28005-BLK1) Continued Prepared: 06/28/2013 01:30 Analyzed: 06/29/2013 09:47

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	<1.0	U	1.7	ug/kg wet							
Heptachlor epoxide	<1.0	U	1.7	ug/kg wet							
Methoxychlor	<1.0	U	1.7	ug/kg wet							
Toxaphene	<20	U	33	ug/kg wet							
Surrogate: 2,4,5,6-TCMX	*41*			*ug/kg wet*	*33.3*		*123*	*70-125*			
Surrogate: 2,4,5,6-TCMX [2C]	*42*			*ug/kg wet*	*33.3*		*127*	*70-125*			
Surrogate: Decachlorobiphenyl	*43*			*ug/kg wet*	*33.3*		*130*	*55-130*			
Surrogate: Decachlorobiphenyl [2C]	*43*			*ug/kg wet*	*33.3*		*130*	*55-130*			

LCS (3F28005-BS1) Prepared: 06/28/2013 01:30 Analyzed: 06/29/2013 09:59

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	34		1.7	ug/kg wet	33.3		101	30-135			
4,4'-DDE	39		1.7	ug/kg wet	33.3		118	70-125			
4,4'-DDT	31		1.7	ug/kg wet	33.3		94	45-140			
Aldrin	38		1.7	ug/kg wet	33.3		115	45-140			
alpha-BHC	39		1.7	ug/kg wet	33.3		118	60-125			
beta-BHC	34		1.7	ug/kg wet	33.3		103	60-125			
Chlordane-alpha	35		1.7	ug/kg wet	33.3		105	65-120			
Chlordane-gamma	36		1.7	ug/kg wet	33.3		107	65-125			
delta-BHC	39		1.7	ug/kg wet	33.3		118	55-130			
Dieldrin	39		1.7	ug/kg wet	33.3		116	65-125			
Endosulfan I	36		1.7	ug/kg wet	33.3		107	15-135			
Endosulfan II	32		1.7	ug/kg wet	33.3		97	35-140			
Endosulfan sulfate	29		1.7	ug/kg wet	33.3		88	60-135			
Endrin	36		1.7	ug/kg wet	33.3		109	60-135			
Endrin aldehyde	32		1.7	ug/kg wet	33.3		95	35-145			
Endrin ketone	28		1.7	ug/kg wet	33.3		83	65-135			
gamma-BHC	34		1.7	ug/kg wet	33.3		101	60-125			
Heptachlor	31		1.7	ug/kg wet	33.3		93	50-140			
Heptachlor epoxide	33		1.7	ug/kg wet	33.3		100	65-130			
Methoxychlor	30		1.7	ug/kg wet	33.3		90	55-145			
Surrogate: 2,4,5,6-TCMX	*37*			*ug/kg wet*	*33.3*		*112*	*70-125*			
Surrogate: 2,4,5,6-TCMX [2C]	*37*			*ug/kg wet*	*33.3*		*110*	*70-125*			
Surrogate: Decachlorobiphenyl	*34*			*ug/kg wet*	*33.3*		*103*	*55-130*			
Surrogate: Decachlorobiphenyl [2C]	*33*			*ug/kg wet*	*33.3*		*99*	*55-130*			

LCS Dup (3F28005-BSD1) Prepared: 06/28/2013 01:30 Analyzed: 06/29/2013 10:12

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	32		1.7	ug/kg wet	33.3		96	30-135	5	30	
4,4'-DDE	36		1.7	ug/kg wet	33.3		107	70-125	10	30	
4,4'-DDT	32		1.7	ug/kg wet	33.3		95	45-140	2	30	
Aldrin	36		1.7	ug/kg wet	33.3		107	45-140	7	30	
alpha-BHC	37		1.7	ug/kg wet	33.3		112	60-125	5	30	
beta-BHC	33		1.7	ug/kg wet	33.3		99	60-125	4	30	
Chlordane-alpha	34		1.7	ug/kg wet	33.3		101	65-120	3	30	

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 3F28005 - EPA 3550C

LCS Dup (3F28005-BSD1) Continued Prepared: 06/28/2013 01:30 Analyzed: 06/29/2013 10:12

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlordane-gamma	35		1.7	ug/kg wet	33.3		104	65-125	3	30	
delta-BHC	37		1.7	ug/kg wet	33.3		112	55-130	5	30	
Dieldrin	37		1.7	ug/kg wet	33.3		111	65-125	4	30	
Endosulfan I	34		1.7	ug/kg wet	33.3		103	15-135	4	30	
Endosulfan II	32		1.7	ug/kg wet	33.3		95	35-140	2	30	
Endosulfan sulfate	29		1.7	ug/kg wet	33.3		87	60-135	2	30	
Endrin	35		1.7	ug/kg wet	33.3		105	60-135	4	30	
Endrin aldehyde	31		1.7	ug/kg wet	33.3		93	35-145	3	30	
Endrin ketone	28		1.7	ug/kg wet	33.3		83	65-135	0.1	30	
gamma-BHC	34		1.7	ug/kg wet	33.3		101	60-125	0.1	30	
Heptachlor	31		1.7	ug/kg wet	33.3		93	50-140	0.1	30	
Heptachlor epoxide	32		1.7	ug/kg wet	33.3		96	65-130	5	30	
Methoxychlor	30		1.7	ug/kg wet	33.3		89	55-145	0.2	30	
Surrogate: 2,4,5,6-TCMX	*34*			*ug/kg wet*	*33.3*		*102*	*70-125*			
Surrogate: 2,4,5,6-TCMX [2C]	*33*			*ug/kg wet*	*33.3*		*98*	*70-125*			
Surrogate: Decachlorobiphenyl	*32*			*ug/kg wet*	*33.3*		*96*	*55-130*			
Surrogate: Decachlorobiphenyl [2C]	*30*			*ug/kg wet*	*33.3*		*90*	*55-130*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 3F24029 - EPA 3550C

Blank (3F24029-BLK1) Prepared: 06/24/2013 13:45 Analyzed: 06/27/2013 13:59

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016	<20	U	40	ug/kg wet							
PCB-1016/1242	<20	U	40	ug/kg wet							
PCB-1221	<20	U	40	ug/kg wet							
PCB-1232	<20	U	40	ug/kg wet							
PCB-1242	<20	U	40	ug/kg wet							
PCB-1248	<20	U	40	ug/kg wet							
PCB-1254	<20	U	40	ug/kg wet							
PCB-1260	<20	U	40	ug/kg wet							
PCB-1262	<20	U	40	ug/kg wet							
PCB-1268	<20	U	40	ug/kg wet							
Surrogate: 2,4,5,6-TCMX	*32*			*ug/kg wet*	*33.3*		*96*	*20-137*			
Surrogate: Decachlorobiphenyl	*34*			*ug/kg wet*	*33.3*		*103*	*60-125*			

LCS (3F24029-BS1) Prepared: 06/24/2013 13:45 Analyzed: 06/27/2013 14:11

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016	310		40	ug/kg wet				40-140			
PCB-1016/1242	310		40	ug/kg wet	333		93	40-140			
PCB-1221	<20	U	40	ug/kg wet				29-185			
PCB-1232	<20	U	40	ug/kg wet				29-185			
PCB-1242	<20	U	40	ug/kg wet				29-185			
PCB-1248	<20	U	40	ug/kg wet				29-185			
PCB-1254	<20	U	40	ug/kg wet				29-185			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 3F24029 - EPA 3550C

LCS (3F24029-BS1) Continued Prepared: 06/24/2013 13:45 Analyzed: 06/27/2013 14:11

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1260	330		40	ug/kg wet	333		99	60-130			
PCB-1262	<20	U	40	ug/kg wet				29-185			
PCB-1268	<20	U	40	ug/kg wet				29-185			
Surrogate: 2,4,5,6-TCMX	*32*			*ug/kg wet*	*33.3*		*97*	*20-137*			
Surrogate: Decachlorobiphenyl	*34*			*ug/kg wet*	*33.3*		*103*	*60-125*			

LCS Dup (3F24029-BSD1) Prepared: 06/24/2013 13:45 Analyzed: 06/27/2013 14:23

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016	340		40	ug/kg wet				40-140	10	30	
PCB-1016/1242	340		40	ug/kg wet	333		102	40-140	10	30	
PCB-1221	<20	U	40	ug/kg wet				29-185		30	
PCB-1232	<20	U	40	ug/kg wet				29-185		30	
PCB-1242	<20	U	40	ug/kg wet				29-185		30	
PCB-1248	<20	U	40	ug/kg wet				29-185		30	
PCB-1254	<20	U	40	ug/kg wet				29-185		30	
PCB-1260	340		40	ug/kg wet	333		101	60-130	2	30	
PCB-1262	<20	U	40	ug/kg wet				29-185		30	
PCB-1268	<20	U	40	ug/kg wet				29-185		30	
Surrogate: 2,4,5,6-TCMX	*34*			*ug/kg wet*	*33.3*		*103*	*20-137*			
Surrogate: Decachlorobiphenyl	*37*			*ug/kg wet*	*33.3*		*110*	*60-125*			

Batch 3F28012 - EPA 3550C

Blank (3F28012-BLK1) Prepared: 06/28/2013 12:25 Analyzed: 07/01/2013 09:08

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016	<20	U	40	ug/kg wet							
PCB-1016/1242	<20	U	40	ug/kg wet							
PCB-1221	<20	U	40	ug/kg wet							
PCB-1232	<20	U	40	ug/kg wet							
PCB-1242	<20	U	40	ug/kg wet							
PCB-1248	<20	U	40	ug/kg wet							
PCB-1254	<20	U	40	ug/kg wet							
PCB-1260	<20	U	40	ug/kg wet							
PCB-1262	<20	U	40	ug/kg wet							
PCB-1268	<20	U	40	ug/kg wet							
Surrogate: 2,4,5,6-TCMX	*27*			*ug/kg wet*	*33.3*		*82*	*20-137*			
Surrogate: Decachlorobiphenyl	*31*			*ug/kg wet*	*33.3*		*93*	*60-125*			

LCS (3F28012-BS1) Prepared: 06/28/2013 12:25 Analyzed: 07/01/2013 09:20

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016	280		40	ug/kg wet				40-140			
PCB-1016/1242	280		40	ug/kg wet	333		84	40-140			
PCB-1221	<20	U	40	ug/kg wet				29-185			
PCB-1232	<20	U	40	ug/kg wet				29-185			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 3F28012 - EPA 3550C

LCS (3F28012-BS1) Continued Prepared: 06/28/2013 12:25 Analyzed: 07/01/2013 09:20

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1242	<20	U	40	ug/kg wet				29-185			
PCB-1248	<20	U	40	ug/kg wet				29-185			
PCB-1254	<20	U	40	ug/kg wet				29-185			
PCB-1260	300		40	ug/kg wet	333		91	60-130			
PCB-1262	<20	U	40	ug/kg wet				29-185			
PCB-1268	<20	U	40	ug/kg wet				29-185			
Surrogate: 2,4,5,6-TCMX	*31*			*ug/kg wet*	*33.3*		*93*	*20-137*			
Surrogate: Decachlorobiphenyl	*34*			*ug/kg wet*	*33.3*		*101*	*60-125*			

LCS Dup (3F28012-BSD1) Prepared: 06/28/2013 12:25 Analyzed: 07/01/2013 09:32

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016	290		40	ug/kg wet				40-140	4	30	
PCB-1016/1242	290		40	ug/kg wet	333		87	40-140	4	30	
PCB-1221	<20	U	40	ug/kg wet				29-185		30	
PCB-1232	<20	U	40	ug/kg wet				29-185		30	
PCB-1242	<20	U	40	ug/kg wet				29-185		30	
PCB-1248	<20	U	40	ug/kg wet				29-185		30	
PCB-1254	<20	U	40	ug/kg wet				29-185		30	
PCB-1260	320		40	ug/kg wet	333		96	60-130	6	30	
PCB-1262	<20	U	40	ug/kg wet				29-185		30	
PCB-1268	<20	U	40	ug/kg wet				29-185		30	
Surrogate: 2,4,5,6-TCMX	*31*			*ug/kg wet*	*33.3*		*94*	*20-137*			
Surrogate: Decachlorobiphenyl	*36*			*ug/kg wet*	*33.3*		*107*	*60-125*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3F20034 - EPA 7471B

Blank (3F20034-BLK1) Prepared: 06/20/2013 15:59 Analyzed: 06/21/2013 07:36

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	<0.00570	U	0.0100	mg/kg wet							

LCS (3F20034-BS1) Prepared: 06/20/2013 15:59 Analyzed: 06/21/2013 07:39

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.608		0.0100	mg/kg wet	0.600		101	80-120			

LCS Dup (3F20034-BSD1) Prepared: 06/20/2013 15:59 Analyzed: 06/21/2013 07:42

Analyte	Result	Flag	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.608		0.0100	mg/kg wet	0.600		101	80-120	0.05	20	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported result is an estimated value.
U	Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
N	Non-target analyte.
Q	One or more quality control criteria failed.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
GC-06	Confirmation result exceeds 40% RPD, higher result reported.
GC-07	Confirmation result exceeds 40% RPD, lower result reported due to interference.
Q	Analysis performed outside of method - specified holding time.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-14	Confirmed matrix effects
QS-03	Surrogate recovery outside acceptance limits
QS-05	Surrogate recovery biased low and outside control limits due to suspected matrix effects, as evidenced by sample behavior during sample preparation (emulsion formation, excessive foaming).
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

ENVIRONMENTAL CONSERVATION LABORATORIES **CHAIN-OF-CUSTODY RECORD** **www.encolabs.com**

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Client Name: CH2M Hill, Inc. (CH025)	Project Number: [none] 439611.01.RI
Address: 5701 Cleveland Street, Suite 200	Project Name/Desc: CTO-0020 Towers Road Disposal Areas, Hertford, NC
City/ST/Zip: Virginia Beach, VA 23462	PO # / Billing Info: 950646
Tel: (757) 671-6256 Fax:	Reporting Contact: Janna Staszak
Sampler(s) Name, Affiliation (Print): Tony Stewart / N. Price (CH2M Hill)	Billing Contact: Colleen Kurtz
Sampler(s) Signature:	Site Location / Time Zone: EST

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: A302799 ~~A302797~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	H/O	8260B TCL SOM01.2 DOD, 8260B DOD,8260B TICs	8081B DOD,8082A DOD,8270D PAH SIM DOD,8270D TCL SOM01.2 DOD,8270D TICs	TAL metals 6010C/6020A, Hg EPA 7471B DOD	HexCr EPA 7199-to ALS /CAS	Sample Comments
	TR-TB01-061913	6/19/13	0800	G	O	2	X					
	HPDTA-BG-SB04-0.5-01-0613	6/19/13	0800	G	SO	1				X		
	HPDTA-BG-SB04-03-05-0613	6/19/13	0810	G	SO	1				X		
	HPDTA-BG-SB03-0.5-01-0613	6/19/13	0915	G	SO	3				X	X	
	HPDTA-BG-SB03-04-06-0613		0925	G	SO	3				X	X	
	TR-2ND-SB07-0.5-01-0613		1020	G	SO	7	X	X	X			
	TR-2ND-SB07-04-06-0613		1040	G	SO	7	X	X	X			
	TR-2ND-SB07-GW-0613		1045	G	GW	5	X	X				
	TR-2ND-SB06-0.5-01-0613		1120	G	SO	8	X	X	X	X		Hg & HexCr
	TR-2ND-SB06-05-07-0613		1130	G	SO	8	X	X	X	X		Hg & HexCr
	TR-2ND-SB06D-0.5-01-0613		1125	G	SO	7	X	X	X			
	TR-2ND-SB06D-05-07-0613	6/19/13	1135	G	SO	7	X	X	X			

<-- Total # of Containers

Sample Kit Prepared By: [signature]	Date/Time: 15:30 5-17-13	Relinquished By: [signature]	Date/Time: 15:30 5-17-13
Comments/Special Reporting Requirements:		Relinquished By: [signature]	Date/Time: 6-19-13 1945
		Relinquished By:	Date/Time:

Received By:	Date/Time:		
Received By: [signature]	Date/Time: 6/20/13 0920		
Received By:	Date/Time:		

Cooler #'s & Temps on Receipt: MeBtW 8°C; G-24 1°C; G-437 1°C; G-314 0°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Client Name: CH2M Hill, Inc. (CH025)	Project Number: [none] 439611.01.RI
Address: 5701 Cleveland Street, Suite 200	Project Name/Desc: CTO-0020 Towers Road Disposal Areas, Hertford, NC
City/ST/Zip: Virginia Beach, VA 23462	PO # / Billing Info: 950646
Tel: (757) 671-6256 Fax:	Reporting Contact: Janna Staszak
Sampler(s) Name, Affiliation (Print): Toby Stewart (CH2M Hill), Nate Price	Billing Contact: Colleen Kurtz
Sampler(s) Signature: [signature]	Site Location / Time Zone: EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: A303499 A302797

Requested Analyses: 8260B TCL SOM01.2 DOD, 8260B DOD,8260B TICs; 8081B DOD,8082A DOD,8270D PAH SIM DOD,8270D TCL SOM01.2 DOD,8270D TICs; TAL metals 6010C/6020A, Hg EPA 7471B DOD; HexCr EPA 7199-to ALS /CAS

Preservation (See Codes) (Combine as necessary): H/O

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2 DOD, 8260B DOD,8260B TICs	8081B DOD,8082A DOD,8270D PAH SIM DOD,8270D TCL SOM01.2 DOD,8270D TICs	TAL metals 6010C/6020A, Hg EPA 7471B DOD	HexCr EPA 7199-to ALS /CAS	Sample Comments
	TR-2ND-SB06-GW-0613	6/19/13	1200	G	GW	5	X	X			VOCs & SVOCs only
	TR-2ND-SB#4-0.5-01-0613		1250	G	SO	7	X	X	X		
	TR-2ND-SB#4-04-06-0613		1300	G	SO	7	X	X	X		
	TR-2ND-SB#4-GW-0613		1300	G	GW	5	X	X			VOCs & SVOCs only
	TR-2ND-SB#5-0.5-01-0613		1330	G	SO	7	X	X	X		
	TR-2ND-SB#5-03-05-0613		1340	G	SO	7	X	X	X		
	TR-2ND-SB#3-0.5-01-0613		1400	G	SO	7	X	X	X		
	TR-2ND-SB#3-04-06-0613		1410	G	SO	7	X	X	X		
	TR-2ND-SB#2-0.5-01-0613		1415	G	SO	8	X	X	X	X	Hg & Hex Cr
	TR-2ND-SB#2-06-08-0613		1430	G	SO						Hg & Hex Cr

<-- Total # of Containers

Sample Kit Prepared By: SB	Date/Time: 15:30 5-17-13	Relinquished By: [signature]	Date/Time: 15:30 5-17-13
Comments/Special Reporting Requirements:		Relinquished By: [signature]	Date/Time: 6-19-13 1945
		Relinquished By:	Date/Time:

Received By:	Date/Time:	Received By:	Date/Time:
Received By: [signature]	Date/Time: 6/20/13 0920	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: MeriBkW 29 OR-4 1°C, C-437 1°C LG-214 Ø

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

WORK ORDER

Printed: 6/21/2013 2:14:20PM

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Report To:

CH2M Hill, Inc. (CH025)
Janna Staszak
5701 Cleveland Street, Suite 200
Virginia Beach, VA 23462
Phone: (757) 671-6256
Fax:

Invoice To:

CH2M Hill, Inc. (CH025)
Colleen Kurtz
5701 Cleveland Street, Suite 200
Virginia Beach, VA 23462
Phone :(757) 671-6252
Fax:

Client Notes

Project Notes

Work Order Notes

-13 & -16 COC says VOC and SVOCs only. MCC 6/20/13

Cancel PEST/PCB on TR-2ND-SB07-GW-0613 (-08), TR-2ND-SB06-GW-0613 (-13), TR-2ND-SB04-GW-0613 (-16) per client email. MCC 6/21/13

Date Due:	11-Jul-13 17:00 (14 day TAT)		
Received By:	Jennifer A. Jones	Date Received:	20-Jun-13 09:20
Logged In By:	Jennifer A. Jones	Date Logged In:	20-Jun-13 13:40

Cooler: C-437 received at 1.0°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	COC/Labels Agree	Y	Custody Seals Intact	Y
Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	All Samples in PreLog Received	N	Received On Ice	Y

Cooler: LG-214 received at 0.0°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	COC/Labels Agree	Y	Custody Seals Intact	Y
Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	All Samples in PreLog Received	N	Received On Ice	Y

Cooler: Med B+W received at 2.0°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	COC/Labels Agree	Y	Custody Seals Intact	Y
Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	All Samples in PreLog Received	N	Received On Ice	Y

Cooler: OR-4 received at 1.0°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	COC/Labels Agree	Y	Custody Seals Intact	Y
Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	All Samples in PreLog Received	N	Received On Ice	Y

Analysis	Due	TAT	Expires	Status	Comments
A303499-01 TR-TB01-061913 [Water] Sampled 19-Jun-13 08:00 Eastern					
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 08:00	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 08:00	Received	

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
A303499-02 HPDTA-BG-SB04-0.5-01-0613 [Soil] Sampled 19-Jun-13 08:00 Eastern					
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 08:00	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	[Group]	
A303499-03 HPDTA-BG-SB04-03-05-0613 [Soil] Sampled 19-Jun-13 08:10 Eastern					
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 08:10	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	[Group]	
A303499-04 HPDTA-BG-SB03-0.5-01-0613 [Soil] Sampled 19-Jun-13 09:15 Eastern					
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 09:15	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	[Group]	
A303499-05 HPDTA-BG-SB03-04-06-0613 [Soil] Sampled 19-Jun-13 09:25 Eastern					
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 09:25	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	[Group]	
A303499-06 TR-2ND-SB07-0.5-01-0613 [Soil] Sampled 19-Jun-13 10:20 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 10:20	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 10:20	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 10:20	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 10:20	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 10:20	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 10:20	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 10:20	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 10:20	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 10:20	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	[Group]	

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
A303499-07 TR-2ND-SB07-04-06-0613 [Soil] Sampled 19-Jun-13 10:40 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 10:40	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 10:40	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 10:40	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 10:40	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 10:40	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 10:40	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 10:40	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 10:40	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 10:40	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	[Group]	
A303499-08 TR-2ND-SB07-GW-0613 [Water] Sampled 19-Jun-13 10:45 Eastern					**PEST/PCB cancelled per client email. MCC 6/21/13**
8081B DOD	11-Jul-13 15:00	14	26-Jun-13 10:45	Cancelled	Cancel per client email MCC 6/21/13
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 10:45	Cancelled	Cancel per client email MCC 6/21/13
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 10:45	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 10:45	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 10:45	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	26-Jun-13 10:45	Batched	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	26-Jun-13 10:45	Received	
8270D TICs	11-Jul-13 15:00	14	26-Jun-13 10:45	Received	
A303499-09 TR-2ND-SB06-0.5-01-0613 [Soil] Sampled 19-Jun-13 11:20 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 11:20	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 11:20	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 11:20	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:20	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 11:20	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 11:20	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:20	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 11:20	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 11:20	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	[Group]	

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
A303499-10 TR-2ND-SB06-05-07-0613 [Soil] Sampled 19-Jun-13 11:30 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 11:30	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 11:30	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 11:30	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:30	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 11:30	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 11:30	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:30	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 11:30	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 11:30	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	[Group]	
A303499-11 TR-2ND-SB06D-0.5-01-0613 [Soil] Sampled 19-Jun-13 11:25 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 11:25	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 11:25	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 11:25	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:25	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 11:25	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 11:25	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:25	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 11:25	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 11:25	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	[Group]	
A303499-12 TR-2ND-SB06D-05-07-0613 [Soil] Sampled 19-Jun-13 11:35 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 11:35	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 11:35	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 11:35	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:35	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 11:35	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 11:35	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 11:35	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 11:35	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 11:35	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	[Group]	

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
A303499-13 TR-2ND-SB06-GW-0613 [Water] Sampled 19-Jun-13 12:00 Eastern					**PEST/PCB cancelled per client email. MCC 6/21/13**
8081B DOD	11-Jul-13 15:00	14	26-Jun-13 12:00	Cancelled	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 12:00	Cancelled	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 12:00	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 12:00	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 12:00	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	26-Jun-13 12:00	Batched	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	26-Jun-13 12:00	Received	
8270D TICs	11-Jul-13 15:00	14	26-Jun-13 12:00	Received	
A303499-14 TR-2ND-SB04-0.5-01-0613 [Soil] Sampled 19-Jun-13 12:50 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 12:50	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 12:50	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 12:50	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 12:50	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 12:50	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 12:50	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 12:50	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 12:50	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 12:50	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	[Group]	
A303499-15 TR-2ND-SB04-04-06-0613 [Soil] Sampled 19-Jun-13 13:00 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 13:00	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 13:00	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 13:00	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 13:00	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	[Group]	

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
A303499-16 TR-2ND-SB04-GW-0613 [Water] Sampled 19-Jun-13 13:00 Eastern					**PEST/PCB cancelled per client email. MCC 6/21/13**
8081B DOD	11-Jul-13 15:00	14	26-Jun-13 13:00	Cancelled	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 13:00	Cancelled	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 13:00	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	26-Jun-13 13:00	Batched	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	26-Jun-13 13:00	Received	
8270D TICs	11-Jul-13 15:00	14	26-Jun-13 13:00	Received	
A303499-17 TR-2ND-SB05-0.5-01-0613 [Soil] Sampled 19-Jun-13 13:30 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 13:30	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 13:30	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 13:30	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 13:30	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 13:30	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 13:30	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 13:30	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 13:30	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 13:30	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	[Group]	
A303499-18 TR-2ND-SB05-03-05-0613 [Soil] Sampled 19-Jun-13 13:40 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 13:40	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 13:40	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 13:40	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 13:40	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 13:40	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 13:40	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 13:40	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 13:40	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 13:40	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	[Group]	

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
A303499-19 TR-2ND-SB03-0.5-01-0613 [Soil] Sampled 19-Jun-13 14:00 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 14:00	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 14:00	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 14:00	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:00	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 14:00	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 14:00	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:00	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 14:00	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 14:00	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	[Group]	
A303499-20 TR-2ND-SB03-04-06-0613 [Soil] Sampled 19-Jun-13 14:10 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 14:10	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 14:10	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 14:10	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:10	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 14:10	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 14:10	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:10	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 14:10	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 14:10	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	[Group]	
A303499-21 TR-2ND-SB02-0.5-1-0613 [Soil] Sampled 19-Jun-13 14:15 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 14:15	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 14:15	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 14:15	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:15	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 14:15	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 14:15	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:15	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 14:15	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 14:15	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	[Group]	

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
A303499-22 TR-2ND-SB02-06-08-0613 [Soil] Sampled 19-Jun-13 14:30 Eastern					
8081B DOD	11-Jul-13 15:00	14	03-Jul-13 14:30	Received	
8082A DOD	11-Jul-13 15:00	14	19-Jun-14 14:30	Received	
8260B DOD	11-Jul-13 15:00	14	03-Jul-13 14:30	Received	Total Xylene only
8260B TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:30	Received	
8260B TICs	11-Jul-13 15:00	14	03-Jul-13 14:30	Received	
8270D PAH SIM DOD	11-Jul-13 15:00	14	03-Jul-13 14:30	Received	
8270D TCL SOM01.2 DOD	11-Jul-13 15:00	14	03-Jul-13 14:30	Batched	
8270D TICs	11-Jul-13 15:00	14	03-Jul-13 14:30	Batched	
Solids, Dry Weight	11-Jul-13 15:00	14	16-Dec-13 14:30	Received	
TAL Metals 6010X DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	[Group]	

ALS Environmental (NY)

A303499-04 HPDTA-BG-SB03-0.5-01-0613 [Soil] Sampled 19-Jun-13 09:15 Eastern					
Chromium VI 7199 DOD	11-Jul-13 15:00	14	19-Jul-13 09:15	SubContracted	
A303499-05 HPDTA-BG-SB03-04-06-0613 [Soil] Sampled 19-Jun-13 09:25 Eastern					
Chromium VI 7199 DOD	11-Jul-13 15:00	14	19-Jul-13 09:25	SubContracted	
A303499-09 TR-2ND-SB06-0.5-01-0613 [Soil] Sampled 19-Jun-13 11:20 Eastern					
Chromium VI 7199 DOD	11-Jul-13 15:00	14	19-Jul-13 11:20	SubContracted	
A303499-10 TR-2ND-SB06-05-07-0613 [Soil] Sampled 19-Jun-13 11:30 Eastern					
Chromium VI 7199 DOD	11-Jul-13 15:00	14	19-Jul-13 11:30	SubContracted	
A303499-21 TR-2ND-SB02-0.5-1-0613 [Soil] Sampled 19-Jun-13 14:15 Eastern					
Chromium VI 7199 DOD	11-Jul-13 15:00	14	19-Jul-13 14:15	SubContracted	
A303499-22 TR-2ND-SB02-06-08-0613 [Soil] Sampled 19-Jun-13 14:30 Eastern					
Chromium VI 7199 DOD	11-Jul-13 15:00	14	19-Jul-13 14:30	SubContracted	

ENCO Jacksonville

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-02 HPDTA-BG-SB04-0.5-01-0613 [Soil] Sampled 19-Jun-13 08:00					
Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-03 HPDTA-BG-SB04-03-05-0613 [Soil] Sampled 19-Jun-13 08:10					
Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 08:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

ENCO Jacksonville

A303499-04 HPDTA-BG-SB03-0.5-01-0613 [Soil] Sampled 19-Jun-13 09:15

Eastern

Analysis	Due	TAT	Expires	Status	Comments
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-05 HPDTA-BG-SB03-04-06-0613 [Soil] Sampled 19-Jun-13 09:25					
Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 09:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-06 TR-2ND-SB07-0.5-01-0613 [Soil] Sampled 19-Jun-13 10:20 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-07 TR-2ND-SB07-04-06-0613 [Soil] Sampled 19-Jun-13 10:40 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 10:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-09 TR-2ND-SB06-0.5-01-0613 [Soil] Sampled 19-Jun-13 11:20 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:20	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-10 TR-2ND-SB06-05-07-0613 [Soil] Sampled 19-Jun-13 11:30 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

ENCO Jacksonville

A303499-11 TR-2ND-SB06D-0.5-01-0613 [Soil] Sampled 19-Jun-13 11:25

Eastern

Analysis	Due	TAT	Expires	Status	Comments
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:25	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-12 TR-2ND-SB06D-05-07-0613 [Soil] Sampled 19-Jun-13 11:35 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 11:35	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

ENCO Jacksonville

A303499-14 TR-2ND-SB04-0.5-01-0613 [Soil] Sampled 19-Jun-13 12:50 Eastern

Analysis	Due	TAT	Expires	Status	Comments
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 12:50	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-15 TR-2ND-SB04-04-06-0613 [Soil] Sampled 19-Jun-13 13:00 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-17 TR-2ND-SB05-0.5-01-0613 [Soil] Sampled 19-Jun-13 13:30 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

ENCO Jacksonville

A303499-18 TR-2ND-SB05-03-05-0613 [Soil] Sampled 19-Jun-13 13:40 Eastern

Analysis	Due	TAT	Expires	Status	Comments
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 13:40	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-19 TR-2ND-SB03-0.5-01-0613 [Soil] Sampled 19-Jun-13 14:00 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:00	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-20 TR-2ND-SB03-04-06-0613 [Soil] Sampled 19-Jun-13 14:10 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:10	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

Analysis	Due	TAT	Expires	Status	Comments
ENCO Jacksonville					
A303499-21 TR-2ND-SB02-0.5-1-0613 [Soil] Sampled 19-Jun-13 14:15 Eastern					
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:15	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

A303499

ENCO Orlando

Client:	**CH2M Hill, Inc. (CH025)**	**Lab Project Mgr:**	**Marcia Colon**
Project:	**CTO-0020 Towers Road Disposal Areas, Hertford, NC**	**Project Number:**	**439611.01.RI**
PO #:	**950646**		

ENCO Jacksonville

A303499-22 TR-2ND-SB02-06-08-0613 [Soil] Sampled 19-Jun-13 14:30 Eastern

Analysis	Due	TAT	Expires	Status	Comments
Aluminum Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Antimony Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Arsenic Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Barium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Beryllium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cadmium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Calcium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Chromium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Cobalt Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Copper Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Iron Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Lead Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Magnesium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Manganese Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Nickel Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Potassium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Selenium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Silver Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Sodium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Thallium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Vanadium Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.
Zinc Total EPA 6010C DOD	11-Jul-13 15:00	14	16-Dec-13 14:30	SubContracted	ORL to perform %Solids, JAJ 6/20/13.

Analysis groups included in this work order

TAL Metals 6010X DOD

Magnesium Total EPA 6010C	Antimony Total EPA 6010C D	Arsenic Total EPA 6010C DOI	Barium Total EPA 6010C DOI
Beryllium Total EPA 6010C D	Cadmium Total EPA 6010C D	Calcium Total EPA 6010C DO	Chromium Total EPA 6010C D
Cobalt Total EPA 6010C DOD	Copper Total EPA 6010C DOI	Aluminum Total EPA 6010C D	Lead Total EPA 6010C DOD
Zinc Total EPA 6010C DOD	Manganese Total EPA 6010C I	Mercury Total EPA 7000 (Upd	Nickel Total EPA 6010C DOD
Potassium Total EPA 6010C D	Selenium Total EPA 6010C D	Silver Total EPA 6010C DOD	Sodium Total EPA 6010C DOI
Thallium Total EPA 6010C D	Vanadium Total EPA 6010C D	Iron Total EPA 6010C DOD	

Reviewed By

Date

ENCO Orlando

SDG: A303499-CTO0020

CLASS: 01_VOA_MS

METHOD: EPA 8260B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Client Sample Id:	Lab Sample Id:
TR-TB01-061913	A303499-01
TR-TB01-061913	A303499-01RE1
TR-2ND-SB07-0.5-01-0613	A303499-06
TR-2ND-SB07-04-06-0613	A303499-07
TR-2ND-SB07-GW-0613	A303499-08
TR-2ND-SB07-GW-0613	A303499-08RE1
TR-2ND-SB06-0.5-01-0613	A303499-09
TR-2ND-SB06-05-07-0613	A303499-10
TR-2ND-SB06D-0.5-01-0613	A303499-11
TR-2ND-SB06D-05-07-0613	A303499-12
TR-2ND-SB06-GW-0613	A303499-13
TR-2ND-SB06-GW-0613	A303499-13RE1
TR-2ND-SB04-0.5-01-0613	A303499-14
TR-2ND-SB04-04-06-0613	A303499-15
TR-2ND-SB04-GW-0613	A303499-16
TR-2ND-SB04-GW-0613	A303499-16RE1
TR-2ND-SB05-0.5-01-0613	A303499-17
TR-2ND-SB05-03-05-0613	A303499-18
TR-2ND-SB03-0.5-01-0613	A303499-19
TR-2ND-SB03-04-06-0613	A303499-20
TR-2ND-SB02-0.5-1-0613	A303499-21
TR-2ND-SB02-06-08-0613	A303499-22

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-TB01-061913

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	A303499-01	File ID:	2FW014.D
Sampled:	06/19/13 08:00	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 22:14
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-TB01-061913

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	A303499-01	File ID:	2FW014.D
Sampled:	06/19/13 08:00	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 22:14
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	65	Q	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	1.0	JQ	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	6.5	Q	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	5.6	Q	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	24	Q	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	33	66	85 - 115	*
Toluene-d8	50.0	39	78	85 - 120	*
4-Bromofluorobenzene	50.0	40	80	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1098956	11.31	1226866	11.31	
1,4-Difluorobenzene	1600817	11.89	1885250	11.89	
Chlorobenzene-d5	1312559	14.56	1630693	14.56	
1,4-Dichlorobenzene-d4	619411	16.9	801552	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-TB01-061913

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	A303499-01RE1	File ID:	3G1011.D
Sampled:	06/19/13 08:00	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 17:19
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-TB01-061913

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	A303499-01RE1	File ID:	3G1011.D
Sampled:	06/19/13 08:00	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 17:19
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	51	103	85 - 115	
Toluene-d8	50.0	48	96	85 - 120	
4-Bromofluorobenzene	50.0	52	103	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1120353	11.5	1787640	11.48	
1,4-Difluorobenzene	1911348	12.08	2856125	12.06	
Chlorobenzene-d5	1607549	14.77	2602095	14.75	
1,4-Dichlorobenzene-d4	645976	17.16	1180728	17.14	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	2FV007.D
Sampled:	06/19/13 10:20	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 16:47
Solids:	84.46	Preparation:	EPA 5030B_MS	Initial/Final:	6.8 g / 5 mL
Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004
Instrument:	OVGCMS2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<0.9	U	0.5	0.9	1.7
74-87-3	Chloromethane	1	<0.9	U	0.6	0.9	1.7
75-01-4	Vinyl chloride	1	<0.9	U	0.4	0.9	1.7
74-83-9	Bromomethane	1	<4.4	U	0.8	4.4	8.7
75-00-3	Chloroethane	1	<0.9	U	0.5	0.9	1.7
75-69-4	Trichlorofluoromethane	1	<0.9	U	0.5	0.9	1.7
76-13-1	Freon 113	1	<0.9	U	0.5	0.9	1.7
67-64-1	Acetone	1	<11	U	1.5	11	22
75-35-4	1,1-Dichloroethene	1	<0.9	U	0.5	0.9	1.7
75-15-0	Carbon disulfide	1	<4.4	U	1.8	4.4	8.7
75-09-2	Methylene Chloride	1	<4.4	U	0.6	4.4	8.7
1634-04-4	Methyl-tert-Butyl Ether	1	<0.9	U	0.2	0.9	1.7
156-60-5	trans-1,2-Dichloroethene	1	<0.9	U	0.6	0.9	1.7
156-59-2	cis-1,2-Dichloroethene	1	<0.9	U	0.5	0.9	1.7
75-34-3	1,1-Dichloroethane	1	<0.9	U	0.5	0.9	1.7
78-93-3	2-Butanone	1	<2.2	U	1.6	2.2	4.4
67-66-3	Chloroform	1	<0.9	U	0.4	0.9	1.7
74-97-5	Bromochloromethane	1	<0.9	U	0.3	0.9	1.7
71-55-6	1,1,1-Trichloroethane	1	<0.9	U	0.3	0.9	1.7
79-20-9	Methyl acetate	1	<4.4	U	1.4	4.4	8.7
110-82-7	Cyclohexane	1	<0.9	U	0.5	0.9	1.7
108-87-2	Methyl cyclohexane	1	<0.9	U	0.5	0.9	1.7
56-23-5	Carbon Tetrachloride	1	<0.9	U	0.5	0.9	1.7
107-06-2	1,2-Dichloroethane	1	<0.9	U	0.3	0.9	1.7
71-43-2	Benzene	1	<0.9	U	0.3	0.9	1.7
79-01-6	Trichloroethene	1	<0.9	U	0.4	0.9	1.7
78-87-5	1,2-Dichloropropane	1	<0.9	U	0.5	0.9	1.7
123-91-1	1,4-Dioxane	1	<44	U	4.8	44	87
75-27-4	Bromodichloromethane	1	<0.9	U	0.3	0.9	1.7
108-10-1	4-Methyl-2-pentanone	1	<2.2	U	1.2	2.2	4.4
591-78-6	2-Hexanone	1	<2.2	U	0.8	2.2	4.4
10061-01-5	cis-1,3-Dichloropropene	1	<0.9	U	0.3	0.9	1.7
108-88-3	Toluene	1	<0.9	U	0.4	0.9	1.7
10061-02-6	trans-1,3-Dichloropropene	1	<0.9	U	0.3	0.9	1.7

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	2FV007.D
Sampled:	06/19/13 10:20	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 16:47
Solids:	84.46	Preparation:	EPA 5030B_MS	Initial/Final:	6.8 g / 5 mL

Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004	Instrument:	OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<0.9	U	0.5	0.9	1.7
127-18-4	Tetrachloroethene	1	<0.9	U	0.4	0.9	1.7
124-48-1	Dibromochloromethane	1	<0.9	U	0.2	0.9	1.7
106-93-4	1,2-Dibromoethane	1	<0.9	U	0.3	0.9	1.7
108-90-7	Chlorobenzene	1	<0.9	U	0.4	0.9	1.7
100-41-4	Ethylbenzene	1	<0.9	U	0.5	0.9	1.7
108-38-3/106-42-3	m,p-Xylenes	1	<1.7	U	0.9	1.7	3.5
95-47-6	o-Xylene	1	<0.9	U	0.5	0.9	1.7
75-25-2	Bromoform	1	<0.9	U	0.3	0.9	1.7
100-42-5	Styrene	1	<0.9	U	0.4	0.9	1.7
98-82-8	Isopropylbenzene	1	<0.9	U	0.5	0.9	1.7
79-34-5	1,1,2,2-Tetrachloroethane	1	<0.9	U	0.3	0.9	1.7
120-82-1	1,2,4-Trichlorobenzene	1	<0.9	U	0.7	0.9	1.7
541-73-1	1,3-Dichlorobenzene	1	<0.9	U	0.4	0.9	1.7
106-46-7	1,4-Dichlorobenzene	1	<0.9	U	0.4	0.9	1.7
95-50-1	1,2-Dichlorobenzene	1	<0.9	U	0.4	0.9	1.7
96-12-8	1,2-Dibromo-3-chloropropane	1	<0.9	U	0.5	0.9	1.7
87-61-6	1,2,3-Trichlorobenzene	1	<0.9	U	0.8	0.9	1.7
1330-20-7	Xylenes (Total)	1	<1.7	U	0.9	1.7	3.5

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	43.5	45	104	74 - 133	
Toluene-d8	43.5	44	101	85 - 115	
4-Bromofluorobenzene	43.5	45	102	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1446043	11.31	1241586	11.31	
1,4-Difluorobenzene	2055468	11.88	1720455	11.89	
Chlorobenzene-d5	1718236	14.56	1501037	14.56	
1,4-Dichlorobenzene-d4	885679	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	2FV008.D
Sampled:	06/19/13 10:40	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 17:23
Solids:	80.68	Preparation:	EPA 5030B_MS	Initial/Final:	6.12 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.6	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.7	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.4	1.0	2.0
74-83-9	Bromomethane	1	<5.1	U	0.9	5.1	10
75-00-3	Chloroethane	1	<1.0	U	0.5	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.5	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.6	1.0	2.0
67-64-1	Acetone	1	<13	U	1.7	13	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.6	1.0	2.0
75-15-0	Carbon disulfide	1	<5.1	U	2.1	5.1	10
75-09-2	Methylene Chloride	1	<5.1	U	0.7	5.1	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.3	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.7	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.5	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.6	1.0	2.0
78-93-3	2-Butanone	1	<2.5	U	1.8	2.5	5.1
67-66-3	Chloroform	1	<1.0	U	0.4	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.4	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.4	1.0	2.0
79-20-9	Methyl acetate	1	<5.1	U	1.6	5.1	10
110-82-7	Cyclohexane	1	<1.0	U	0.5	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.5	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.6	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.3	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.4	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.5	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.6	1.0	2.0
123-91-1	1,4-Dioxane	1	<51	U	5.6	51	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.4	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	1.4	2.5	5.1
591-78-6	2-Hexanone	1	<2.5	U	0.9	2.5	5.1
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.5	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	2FV008.D
Sampled:	06/19/13 10:40	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 17:23
Solids:	80.68	Preparation:	EPA 5030B_MS	Initial/Final:	6.12 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.6	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.5	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.3	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.3	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.5	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.6	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.0	2.0	4.1
95-47-6	o-Xylene	1	<1.0	U	0.5	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.3	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.4	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.5	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.3	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.9	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.5	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.5	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.0	U	0.6	1.0	2.0
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.9	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.0	2.0	4.1

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.6	53	105	74 - 133	
Toluene-d8	50.6	53	105	85 - 115	
4-Bromofluorobenzene	50.6	55	109	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1389766	11.32	1241586	11.31	
1,4-Difluorobenzene	1962629	11.89	1720455	11.89	
Chlorobenzene-d5	1644635	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	838577	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-08	File ID:	2FW015.D
Sampled:	06/19/13 10:45	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 22:46
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-08	File ID:	2FW015.D
Sampled:	06/19/13 10:45	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 22:46
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	22	Q	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	1.8	JQ	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	1.5	JQ	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	8.7	Q	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	32	64	85 - 115	*
Toluene-d8	50.0	37	74	85 - 120	*
4-Bromofluorobenzene	50.0	39	78	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1175430	11.32	1226866	11.31	
1,4-Difluorobenzene	1712647	11.89	1885250	11.89	
Chlorobenzene-d5	1358134	14.55	1630693	14.56	
1,4-Dichlorobenzene-d4	643539	16.89	801552	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-08RE1	File ID:	3G1012.D
Sampled:	06/19/13 10:45	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 17:49
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-08RE1	File ID:	3G1012.D
Sampled:	06/19/13 10:45	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 17:49
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50	101	85 - 115	
Toluene-d8	50.0	46	92	85 - 120	
4-Bromofluorobenzene	50.0	51	101	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1358685	11.5	1787640	11.48	
1,4-Difluorobenzene	2381785	12.08	2856125	12.06	
Chlorobenzene-d5	1958530	14.77	2602095	14.75	
1,4-Dichlorobenzene-d4	783948	17.16	1180728	17.14	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	2FV009.D
Sampled:	06/19/13 11:20	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 17:58
Solids:	84.06	Preparation:	EPA 5030B_MS	Initial/Final:	5.85 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.6	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.7	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.4	1.0	2.0
74-83-9	Bromomethane	1	<5.1	U	0.9	5.1	10
75-00-3	Chloroethane	1	<1.0	U	0.5	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.5	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.6	1.0	2.0
67-64-1	Acetone	1	43		1.7	13	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.6	1.0	2.0
75-15-0	Carbon disulfide	1	<5.1	U	2.1	5.1	10
75-09-2	Methylene Chloride	1	<5.1	U	0.7	5.1	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.3	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.7	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.5	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.6	1.0	2.0
78-93-3	2-Butanone	1	9.6		1.8	2.5	5.1
67-66-3	Chloroform	1	<1.0	U	0.4	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.4	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.4	1.0	2.0
79-20-9	Methyl acetate	1	<5.1	U	1.6	5.1	10
110-82-7	Cyclohexane	1	<1.0	U	0.5	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.5	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.6	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.3	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.4	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.5	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.6	1.0	2.0
123-91-1	1,4-Dioxane	1	<51	U	5.6	51	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.4	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	1.4	2.5	5.1
591-78-6	2-Hexanone	1	<2.5	U	0.9	2.5	5.1
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0
108-88-3	Toluene	1	1.1	J	0.5	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	2FV009.D
Sampled:	06/19/13 11:20	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 17:58
Solids:	84.06	Preparation:	EPA 5030B_MS	Initial/Final:	5.85 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.6	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.5	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.3	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.3	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.5	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.6	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.0	2.0	4.1
95-47-6	o-Xylene	1	<1.0	U	0.5	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.3	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.4	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.5	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.3	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.9	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.5	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.5	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.0	U	0.6	1.0	2.0
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.9	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.0	2.0	4.1

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.8	53	104	74 - 133	
Toluene-d8	50.8	52	103	85 - 115	
4-Bromofluorobenzene	50.8	53	103	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1435826	11.31	1241586	11.31	
1,4-Difluorobenzene	2034106	11.88	1720455	11.89	
Chlorobenzene-d5	1718011	14.56	1501037	14.56	
1,4-Dichlorobenzene-d4	879082	16.88	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	2FV010.D
Sampled:	06/19/13 11:30	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 18:33
Solids:	79.06	Preparation:	EPA 5030B_MS	Initial/Final:	5.34 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.3	U	0.8	1.3	2.5
74-87-3	Chloromethane	1	<1.3	U	0.8	1.3	2.5
75-01-4	Vinyl chloride	1	<1.3	U	0.6	1.3	2.5
74-83-9	Bromomethane	1	<6.3	U	1.1	6.3	13
75-00-3	Chloroethane	1	<1.3	U	0.7	1.3	2.5
75-69-4	Trichlorofluoromethane	1	2.9		0.7	1.3	2.5
76-13-1	Freon 113	1	<1.3	U	0.8	1.3	2.5
67-64-1	Acetone	1	<16	U	2.2	16	32
75-35-4	1,1-Dichloroethene	1	<1.3	U	0.8	1.3	2.5
75-15-0	Carbon disulfide	1	<6.3	U	2.7	6.3	13
75-09-2	Methylene Chloride	1	<6.3	U	0.9	6.3	13
1634-04-4	Methyl-tert-Butyl Ether	1	<1.3	U	0.3	1.3	2.5
156-60-5	trans-1,2-Dichloroethene	1	<1.3	U	0.9	1.3	2.5
156-59-2	cis-1,2-Dichloroethene	1	<1.3	U	0.7	1.3	2.5
75-34-3	1,1-Dichloroethane	1	<1.3	U	0.7	1.3	2.5
78-93-3	2-Butanone	1	<3.2	U	2.3	3.2	6.3
67-66-3	Chloroform	1	<1.3	U	0.5	1.3	2.5
74-97-5	Bromochloromethane	1	<1.3	U	0.4	1.3	2.5
71-55-6	1,1,1-Trichloroethane	1	<1.3	U	0.4	1.3	2.5
79-20-9	Methyl acetate	1	<6.3	U	2.0	6.3	13
110-82-7	Cyclohexane	1	<1.3	U	0.7	1.3	2.5
108-87-2	Methyl cyclohexane	1	<1.3	U	0.7	1.3	2.5
56-23-5	Carbon Tetrachloride	1	<1.3	U	0.8	1.3	2.5
107-06-2	1,2-Dichloroethane	1	<1.3	U	0.4	1.3	2.5
71-43-2	Benzene	1	<1.3	U	0.5	1.3	2.5
79-01-6	Trichloroethene	1	<1.3	U	0.6	1.3	2.5
78-87-5	1,2-Dichloropropane	1	<1.3	U	0.7	1.3	2.5
123-91-1	1,4-Dioxane	1	<63	U	7.0	63	130
75-27-4	Bromodichloromethane	1	<1.3	U	0.4	1.3	2.5
108-10-1	4-Methyl-2-pentanone	1	<3.2	U	1.8	3.2	6.3
591-78-6	2-Hexanone	1	<3.2	U	1.2	3.2	6.3
10061-01-5	cis-1,3-Dichloropropene	1	<1.3	U	0.4	1.3	2.5
108-88-3	Toluene	1	<1.3	U	0.6	1.3	2.5
10061-02-6	trans-1,3-Dichloropropene	1	<1.3	U	0.4	1.3	2.5

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	2FV010.D
Sampled:	06/19/13 11:30	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 18:33
Solids:	79.06	Preparation:	EPA 5030B_MS	Initial/Final:	5.34 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.3	U	0.8	1.3	2.5
127-18-4	Tetrachloroethene	1	<1.3	U	0.6	1.3	2.5
124-48-1	Dibromochloromethane	1	<1.3	U	0.3	1.3	2.5
106-93-4	1,2-Dibromoethane	1	<1.3	U	0.4	1.3	2.5
108-90-7	Chlorobenzene	1	<1.3	U	0.6	1.3	2.5
100-41-4	Ethylbenzene	1	<1.3	U	0.7	1.3	2.5
108-38-3/106-42-3	m,p-Xylenes	1	<2.5	U	1.3	2.5	5.1
95-47-6	o-Xylene	1	<1.3	U	0.7	1.3	2.5
75-25-2	Bromoform	1	<1.3	U	0.4	1.3	2.5
100-42-5	Styrene	1	<1.3	U	0.6	1.3	2.5
98-82-8	Isopropylbenzene	1	<1.3	U	0.7	1.3	2.5
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.3	U	0.4	1.3	2.5
120-82-1	1,2,4-Trichlorobenzene	1	<1.3	U	1.1	1.3	2.5
541-73-1	1,3-Dichlorobenzene	1	<1.3	U	0.6	1.3	2.5
106-46-7	1,4-Dichlorobenzene	1	<1.3	U	0.6	1.3	2.5
95-50-1	1,2-Dichlorobenzene	1	<1.3	U	0.6	1.3	2.5
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.3	U	0.7	1.3	2.5
87-61-6	1,2,3-Trichlorobenzene	1	<1.3	U	1.2	1.3	2.5
1330-20-7	Xylenes (Total)	1	<2.5	U	1.3	2.5	5.1

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	59.2	58	98	74 - 133	
Toluene-d8	59.2	60	101	85 - 115	
4-Bromofluorobenzene	59.2	60	101	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1353886	11.31	1241586	11.31	
1,4-Difluorobenzene	1919972	11.88	1720455	11.89	
Chlorobenzene-d5	1635121	14.56	1501037	14.56	
1,4-Dichlorobenzene-d4	855762	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06D-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	2FV011.D
Sampled:	06/19/13 11:25	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 19:08
Solids:	83.39	Preparation:	EPA 5030B_MS	Initial/Final:	5.5 g / 5 mL
Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004	Instrument:	OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.1	U	0.7	1.1	2.2
74-87-3	Chloromethane	1	<1.1	U	0.7	1.1	2.2
75-01-4	Vinyl chloride	1	<1.1	U	0.5	1.1	2.2
74-83-9	Bromomethane	1	<5.5	U	1.0	5.5	11
75-00-3	Chloroethane	1	<1.1	U	0.6	1.1	2.2
75-69-4	Trichlorofluoromethane	1	<1.1	U	0.6	1.1	2.2
76-13-1	Freon 113	1	<1.1	U	0.7	1.1	2.2
67-64-1	Acetone	1	8.3	J	1.9	14	27
75-35-4	1,1-Dichloroethene	1	<1.1	U	0.7	1.1	2.2
75-15-0	Carbon disulfide	1	<5.5	U	2.3	5.5	11
75-09-2	Methylene Chloride	1	<5.5	U	0.8	5.5	11
1634-04-4	Methyl-tert-Butyl Ether	1	<1.1	U	0.3	1.1	2.2
156-60-5	trans-1,2-Dichloroethene	1	<1.1	U	0.8	1.1	2.2
156-59-2	cis-1,2-Dichloroethene	1	<1.1	U	0.6	1.1	2.2
75-34-3	1,1-Dichloroethane	1	<1.1	U	0.6	1.1	2.2
78-93-3	2-Butanone	1	<2.7	U	2.0	2.7	5.5
67-66-3	Chloroform	1	<1.1	U	0.5	1.1	2.2
74-97-5	Bromochloromethane	1	<1.1	U	0.4	1.1	2.2
71-55-6	1,1,1-Trichloroethane	1	<1.1	U	0.4	1.1	2.2
79-20-9	Methyl acetate	1	<5.5	U	1.7	5.5	11
110-82-7	Cyclohexane	1	<1.1	U	0.6	1.1	2.2
108-87-2	Methyl cyclohexane	1	<1.1	U	0.6	1.1	2.2
56-23-5	Carbon Tetrachloride	1	<1.1	U	0.7	1.1	2.2
107-06-2	1,2-Dichloroethane	1	<1.1	U	0.3	1.1	2.2
71-43-2	Benzene	1	<1.1	U	0.4	1.1	2.2
79-01-6	Trichloroethene	1	<1.1	U	0.5	1.1	2.2
78-87-5	1,2-Dichloropropane	1	<1.1	U	0.6	1.1	2.2
123-91-1	1,4-Dioxane	1	<55	U	6.0	55	110
75-27-4	Bromodichloromethane	1	<1.1	U	0.4	1.1	2.2
108-10-1	4-Methyl-2-pentanone	1	<2.7	U	1.5	2.7	5.5
591-78-6	2-Hexanone	1	<2.7	U	1.0	2.7	5.5
10061-01-5	cis-1,3-Dichloropropene	1	<1.1	U	0.3	1.1	2.2
108-88-3	Toluene	1	<1.1	U	0.5	1.1	2.2
10061-02-6	trans-1,3-Dichloropropene	1	<1.1	U	0.3	1.1	2.2

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06D-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	2FV011.D
Sampled:	06/19/13 11:25	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 19:08
Solids:	83.39	Preparation:	EPA 5030B_MS	Initial/Final:	5.5 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.1	U	0.7	1.1	2.2
127-18-4	Tetrachloroethene	1	<1.1	U	0.5	1.1	2.2
124-48-1	Dibromochloromethane	1	<1.1	U	0.3	1.1	2.2
106-93-4	1,2-Dibromoethane	1	<1.1	U	0.3	1.1	2.2
108-90-7	Chlorobenzene	1	<1.1	U	0.5	1.1	2.2
100-41-4	Ethylbenzene	1	<1.1	U	0.6	1.1	2.2
108-38-3/106-42-3	m,p-Xylenes	1	<2.2	U	1.1	2.2	4.4
95-47-6	o-Xylene	1	<1.1	U	0.6	1.1	2.2
75-25-2	Bromoform	1	<1.1	U	0.3	1.1	2.2
100-42-5	Styrene	1	<1.1	U	0.5	1.1	2.2
98-82-8	Isopropylbenzene	1	<1.1	U	0.6	1.1	2.2
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.1	U	0.3	1.1	2.2
120-82-1	1,2,4-Trichlorobenzene	1	<1.1	U	0.9	1.1	2.2
541-73-1	1,3-Dichlorobenzene	1	<1.1	U	0.5	1.1	2.2
106-46-7	1,4-Dichlorobenzene	1	<1.1	U	0.5	1.1	2.2
95-50-1	1,2-Dichlorobenzene	1	<1.1	U	0.5	1.1	2.2
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.1	U	0.6	1.1	2.2
87-61-6	1,2,3-Trichlorobenzene	1	<1.1	U	1.0	1.1	2.2
1330-20-7	Xylenes (Total)	1	<2.2	U	1.1	2.2	4.4

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	54.5	56	103	74 - 133	
Toluene-d8	54.5	56	103	85 - 115	
4-Bromofluorobenzene	54.5	56	102	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1396010	11.31	1241586	11.31	
1,4-Difluorobenzene	1969980	11.88	1720455	11.89	
Chlorobenzene-d5	1661111	14.56	1501037	14.56	
1,4-Dichlorobenzene-d4	862123	16.88	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	2FV012.D
Sampled:	06/19/13 11:35	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 19:42
Solids:	78.23	Preparation:	EPA 5030B_MS	Initial/Final:	5.53 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	2.0	J	0.7	1.2	2.3
74-87-3	Chloromethane	1	<1.2	U	0.8	1.2	2.3
75-01-4	Vinyl chloride	1	<1.2	U	0.5	1.2	2.3
74-83-9	Bromomethane	1	<5.8	U	1.0	5.8	12
75-00-3	Chloroethane	1	<1.2	U	0.6	1.2	2.3
75-69-4	Trichlorofluoromethane	1	2.7		0.6	1.2	2.3
76-13-1	Freon 113	1	<1.2	U	0.7	1.2	2.3
67-64-1	Acetone	1	<14	U	2.0	14	29
75-35-4	1,1-Dichloroethene	1	<1.2	U	0.7	1.2	2.3
75-15-0	Carbon disulfide	1	<5.8	U	2.4	5.8	12
75-09-2	Methylene Chloride	1	<5.8	U	0.8	5.8	12
1634-04-4	Methyl-tert-Butyl Ether	1	<1.2	U	0.3	1.2	2.3
156-60-5	trans-1,2-Dichloroethene	1	<1.2	U	0.8	1.2	2.3
156-59-2	cis-1,2-Dichloroethene	1	<1.2	U	0.6	1.2	2.3
75-34-3	1,1-Dichloroethane	1	<1.2	U	0.7	1.2	2.3
78-93-3	2-Butanone	1	<2.9	U	2.1	2.9	5.8
67-66-3	Chloroform	1	<1.2	U	0.5	1.2	2.3
74-97-5	Bromochloromethane	1	<1.2	U	0.4	1.2	2.3
71-55-6	1,1,1-Trichloroethane	1	<1.2	U	0.4	1.2	2.3
79-20-9	Methyl acetate	1	<5.8	U	1.8	5.8	12
110-82-7	Cyclohexane	1	<1.2	U	0.6	1.2	2.3
108-87-2	Methyl cyclohexane	1	<1.2	U	0.6	1.2	2.3
56-23-5	Carbon Tetrachloride	1	<1.2	U	0.7	1.2	2.3
107-06-2	1,2-Dichloroethane	1	<1.2	U	0.4	1.2	2.3
71-43-2	Benzene	1	<1.2	U	0.5	1.2	2.3
79-01-6	Trichloroethene	1	<1.2	U	0.6	1.2	2.3
78-87-5	1,2-Dichloropropane	1	<1.2	U	0.6	1.2	2.3
123-91-1	1,4-Dioxane	1	<58	U	6.4	58	120
75-27-4	Bromodichloromethane	1	<1.2	U	0.4	1.2	2.3
108-10-1	4-Methyl-2-pentanone	1	<2.9	U	1.6	2.9	5.8
591-78-6	2-Hexanone	1	<2.9	U	1.1	2.9	5.8
10061-01-5	cis-1,3-Dichloropropene	1	<1.2	U	0.3	1.2	2.3
108-88-3	Toluene	1	<1.2	U	0.5	1.2	2.3
10061-02-6	trans-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.3

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	2FV012.D
Sampled:	06/19/13 11:35	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 19:42
Solids:	78.23	Preparation:	EPA 5030B_MS	Initial/Final:	5.53 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.2	U	0.7	1.2	2.3
127-18-4	Tetrachloroethene	1	<1.2	U	0.6	1.2	2.3
124-48-1	Dibromochloromethane	1	<1.2	U	0.3	1.2	2.3
106-93-4	1,2-Dibromoethane	1	<1.2	U	0.4	1.2	2.3
108-90-7	Chlorobenzene	1	<1.2	U	0.6	1.2	2.3
100-41-4	Ethylbenzene	1	<1.2	U	0.6	1.2	2.3
108-38-3/106-42-3	m,p-Xylenes	1	<2.3	U	1.1	2.3	4.6
95-47-6	o-Xylene	1	<1.2	U	0.6	1.2	2.3
75-25-2	Bromoform	1	<1.2	U	0.3	1.2	2.3
100-42-5	Styrene	1	<1.2	U	0.5	1.2	2.3
98-82-8	Isopropylbenzene	1	<1.2	U	0.6	1.2	2.3
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.2	U	0.3	1.2	2.3
120-82-1	1,2,4-Trichlorobenzene	1	<1.2	U	1.0	1.2	2.3
541-73-1	1,3-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
106-46-7	1,4-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
95-50-1	1,2-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.2	U	0.7	1.2	2.3
87-61-6	1,2,3-Trichlorobenzene	1	<1.2	U	1.1	1.2	2.3
1330-20-7	Xylenes (Total)	1	<2.3	U	1.1	2.3	4.6

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	57.8	57	98	74 - 133	
Toluene-d8	57.8	58	101	85 - 115	
4-Bromofluorobenzene	57.8	58	101	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1426510	11.31	1241586	11.31	
1,4-Difluorobenzene	2011238	11.89	1720455	11.89	
Chlorobenzene-d5	1706799	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	895529	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-13	File ID:	2FW016.D
Sampled:	06/19/13 12:00	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 23:18
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-13	File ID:	2FW016.D
Sampled:	06/19/13 12:00	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 23:18
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	11	Q	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	4.1	Q	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	32	64	85 - 115	*
Toluene-d8	50.0	37	75	85 - 120	*
4-Bromofluorobenzene	50.0	37	74	75 - 120	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1137237	11.32	1226866	11.31	
1,4-Difluorobenzene	1671212	11.89	1885250	11.89	
Chlorobenzene-d5	1374091	14.56	1630693	14.56	
1,4-Dichlorobenzene-d4	631167	16.9	801552	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-13RE1	File ID:	3G1013.D
Sampled:	06/19/13 12:00	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 18:19
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB06-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-13RE1	File ID:	3G1013.D
Sampled:	06/19/13 12:00	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 18:19
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	52	104	85 - 115	
Toluene-d8	50.0	48	97	85 - 120	
4-Bromofluorobenzene	50.0	54	107	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1343599	11.5	1787640	11.48	
1,4-Difluorobenzene	2199580	12.08	2856125	12.06	
Chlorobenzene-d5	1903562	14.77	2602095	14.75	
1,4-Dichlorobenzene-d4	764911	17.16	1180728	17.14	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	2FV013.D
Sampled:	06/19/13 12:50	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 20:17
Solids:	85.68	Preparation:	EPA 5030B_MS	Initial/Final:	5.3 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.2	U	0.7	1.2	2.3
74-87-3	Chloromethane	1	<1.2	U	0.8	1.2	2.3
75-01-4	Vinyl chloride	1	<1.2	U	0.5	1.2	2.3
74-83-9	Bromomethane	1	<5.8	U	1.1	5.8	12
75-00-3	Chloroethane	1	<1.2	U	0.6	1.2	2.3
75-69-4	Trichlorofluoromethane	1	<1.2	U	0.6	1.2	2.3
76-13-1	Freon 113	1	<1.2	U	0.7	1.2	2.3
67-64-1	Acetone	1	<15	U	2.0	15	29
75-35-4	1,1-Dichloroethene	1	<1.2	U	0.7	1.2	2.3
75-15-0	Carbon disulfide	1	<5.8	U	2.5	5.8	12
75-09-2	Methylene Chloride	1	<5.8	U	0.8	5.8	12
1634-04-4	Methyl-tert-Butyl Ether	1	<1.2	U	0.3	1.2	2.3
156-60-5	trans-1,2-Dichloroethene	1	<1.2	U	0.8	1.2	2.3
156-59-2	cis-1,2-Dichloroethene	1	<1.2	U	0.6	1.2	2.3
75-34-3	1,1-Dichloroethane	1	<1.2	U	0.7	1.2	2.3
78-93-3	2-Butanone	1	<2.9	U	2.1	2.9	5.8
67-66-3	Chloroform	1	<1.2	U	0.5	1.2	2.3
74-97-5	Bromochloromethane	1	<1.2	U	0.4	1.2	2.3
71-55-6	1,1,1-Trichloroethane	1	<1.2	U	0.4	1.2	2.3
79-20-9	Methyl acetate	1	<5.8	U	1.9	5.8	12
110-82-7	Cyclohexane	1	<1.2	U	0.6	1.2	2.3
108-87-2	Methyl cyclohexane	1	<1.2	U	0.6	1.2	2.3
56-23-5	Carbon Tetrachloride	1	<1.2	U	0.7	1.2	2.3
107-06-2	1,2-Dichloroethane	1	<1.2	U	0.4	1.2	2.3
71-43-2	Benzene	1	<1.2	U	0.5	1.2	2.3
79-01-6	Trichloroethene	1	<1.2	U	0.6	1.2	2.3
78-87-5	1,2-Dichloropropane	1	<1.2	U	0.6	1.2	2.3
123-91-1	1,4-Dioxane	1	<58	U	6.4	58	120
75-27-4	Bromodichloromethane	1	<1.2	U	0.4	1.2	2.3
108-10-1	4-Methyl-2-pentanone	1	<2.9	U	1.6	2.9	5.8
591-78-6	2-Hexanone	1	<2.9	U	1.1	2.9	5.8
10061-01-5	cis-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.3
108-88-3	Toluene	1	<1.2	U	0.5	1.2	2.3
10061-02-6	trans-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.3

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	2FV013.D
Sampled:	06/19/13 12:50	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 20:17
Solids:	85.68	Preparation:	EPA 5030B_MS	Initial/Final:	5.3 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.2	U	0.7	1.2	2.3
127-18-4	Tetrachloroethene	1	<1.2	U	0.6	1.2	2.3
124-48-1	Dibromochloromethane	1	<1.2	U	0.3	1.2	2.3
106-93-4	1,2-Dibromoethane	1	<1.2	U	0.4	1.2	2.3
108-90-7	Chlorobenzene	1	<1.2	U	0.6	1.2	2.3
100-41-4	Ethylbenzene	1	<1.2	U	0.7	1.2	2.3
108-38-3/106-42-3	m,p-Xylenes	1	<2.3	U	1.2	2.3	4.7
95-47-6	o-Xylene	1	<1.2	U	0.6	1.2	2.3
75-25-2	Bromoform	1	<1.2	U	0.4	1.2	2.3
100-42-5	Styrene	1	0.9	J	0.5	1.2	2.3
98-82-8	Isopropylbenzene	1	<1.2	U	0.6	1.2	2.3
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.2	U	0.4	1.2	2.3
120-82-1	1,2,4-Trichlorobenzene	1	<1.2	U	1.0	1.2	2.3
541-73-1	1,3-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
106-46-7	1,4-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
95-50-1	1,2-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.2	U	0.7	1.2	2.3
87-61-6	1,2,3-Trichlorobenzene	1	<1.2	U	1.1	1.2	2.3
1330-20-7	Xylenes (Total)	1	<2.3	U	1.2	2.3	4.7

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	55.1	58	105	74 - 133	
Toluene-d8	55.1	57	104	85 - 115	
4-Bromofluorobenzene	55.1	55	99	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1382958	11.32	1241586	11.31	
1,4-Difluorobenzene	1959202	11.89	1720455	11.89	
Chlorobenzene-d5	1665294	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	857006	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	2FV014.D
Sampled:	06/19/13 13:00	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 20:53
Solids:	79.34	Preparation:	EPA 5030B_MS	Initial/Final:	6.41 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.6	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.6	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.4	1.0	2.0
74-83-9	Bromomethane	1	<4.9	U	0.9	4.9	9.8
75-00-3	Chloroethane	1	<1.0	U	0.5	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.5	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.6	1.0	2.0
67-64-1	Acetone	1	<12	U	1.7	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.6	1.0	2.0
75-15-0	Carbon disulfide	1	<4.9	U	2.1	4.9	9.8
75-09-2	Methylene Chloride	1	<4.9	U	0.7	4.9	9.8
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.3	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.7	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.5	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.6	1.0	2.0
78-93-3	2-Butanone	1	<2.5	U	1.8	2.5	4.9
67-66-3	Chloroform	1	<1.0	U	0.4	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.3	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.3	1.0	2.0
79-20-9	Methyl acetate	1	<4.9	U	1.6	4.9	9.8
110-82-7	Cyclohexane	1	<1.0	U	0.5	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.5	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.6	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.3	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.4	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.5	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.5	1.0	2.0
123-91-1	1,4-Dioxane	1	<49	U	5.4	49	98
75-27-4	Bromodichloromethane	1	<1.0	U	0.3	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	1.4	2.5	4.9
591-78-6	2-Hexanone	1	<2.5	U	0.9	2.5	4.9
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.5	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	2FV014.D
Sampled:	06/19/13 13:00	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 20:53
Solids:	79.34	Preparation:	EPA 5030B_MS	Initial/Final:	6.41 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.6	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.5	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.3	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.3	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.5	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.6	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.0	2.0	3.9
95-47-6	o-Xylene	1	<1.0	U	0.5	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.3	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.4	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.5	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.3	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.8	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.5	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.4	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.0	U	0.6	1.0	2.0
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.9	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.0	2.0	3.9

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	49.2	49	99	74 - 133	
Toluene-d8	49.2	48	98	85 - 115	
4-Bromofluorobenzene	49.2	45	92	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1452300	11.31	1241586	11.31	
1,4-Difluorobenzene	2051667	11.88	1720455	11.89	
Chlorobenzene-d5	1756856	14.56	1501037	14.56	
1,4-Dichlorobenzene-d4	860545	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-16	File ID:	2FW017.D
Sampled:	06/19/13 13:00	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 23:50
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-16	File ID:	2FW017.D
Sampled:	06/19/13 13:00	Prepared:	06/28/13 12:07	Analyzed:	06/28/13 23:50
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F28011 Sequence: AA24752 Calibration: 1301050 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	6.4	Q	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	2.2	Q	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	30	60	85 - 115	*
Toluene-d8	50.0	37	73	85 - 120	*
4-Bromofluorobenzene	50.0	37	74	75 - 120	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1229143	11.32	1226866	11.31	
1,4-Difluorobenzene	1734095	11.89	1885250	11.89	
Chlorobenzene-d5	1431511	14.56	1630693	14.56	
1,4-Dichlorobenzene-d4	671064	16.89	801552	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-16RE1	File ID:	3G1014.D
Sampled:	06/19/13 13:00	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 18:49
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.74	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.82	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.71	1.0	2.0
74-83-9	Bromomethane	1	<1.0	U	0.95	1.0	2.0
75-00-3	Chloroethane	1	<1.0	U	0.98	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.94	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.73	1.0	2.0
67-64-1	Acetone	1	<12	U	1.8	12	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.94	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.6	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.71	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.60	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.73	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.53	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.62	1.0	2.0
78-93-3	2-Butanone	1	<12	U	4.5	12	25
67-66-3	Chloroform	1	<1.0	U	0.80	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.94	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.80	1.0	2.0
79-20-9	Methyl acetate	1	<1.0	U	0.95	1.0	2.0
110-82-7	Cyclohexane	1	<1.0	U	0.93	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.64	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.94	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.63	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.71	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.89	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.80	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	33	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.52	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	0.79	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	1.4	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.59	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.72	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.73	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB04-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-16RE1	File ID:	3G1014.D
Sampled:	06/19/13 13:00	Prepared:	07/01/13 12:07	Analyzed:	07/01/13 18:49
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 3F30006 Sequence: AA24769 Calibration: 1306033 Instrument: OVGCMS3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.76	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.76	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.44	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.78	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.72	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.69	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.3	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.53	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.75	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.61	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.67	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.54	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.70	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.77	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.76	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.73	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<5.0	U	0.96	5.0	10
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.86	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.3	2.0	4.0

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	51	102	85 - 115	
Toluene-d8	50.0	46	93	85 - 120	
4-Bromofluorobenzene	50.0	52	104	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1359041	11.5	1787640	11.48	
1,4-Difluorobenzene	2299795	12.08	2856125	12.06	
Chlorobenzene-d5	1808826	14.77	2602095	14.75	
1,4-Dichlorobenzene-d4	779425	17.17	1180728	17.14	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	2FV015.D
Sampled:	06/19/13 13:30	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 21:28
Solids:	75.47	Preparation:	EPA 5030B_MS	Initial/Final:	5.52 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.2	U	0.7	1.2	2.4
74-87-3	Chloromethane	1	<1.2	U	0.8	1.2	2.4
75-01-4	Vinyl chloride	1	<1.2	U	0.5	1.2	2.4
74-83-9	Bromomethane	1	<6.0	U	1.1	6.0	12
75-00-3	Chloroethane	1	<1.2	U	0.6	1.2	2.4
75-69-4	Trichlorofluoromethane	1	<1.2	U	0.6	1.2	2.4
76-13-1	Freon 113	1	<1.2	U	0.7	1.2	2.4
67-64-1	Acetone	1	<15	U	2.0	15	30
75-35-4	1,1-Dichloroethene	1	<1.2	U	0.7	1.2	2.4
75-15-0	Carbon disulfide	1	<6.0	U	2.5	6.0	12
75-09-2	Methylene Chloride	1	<6.0	U	0.8	6.0	12
1634-04-4	Methyl-tert-Butyl Ether	1	<1.2	U	0.3	1.2	2.4
156-60-5	trans-1,2-Dichloroethene	1	<1.2	U	0.8	1.2	2.4
156-59-2	cis-1,2-Dichloroethene	1	<1.2	U	0.6	1.2	2.4
75-34-3	1,1-Dichloroethane	1	<1.2	U	0.7	1.2	2.4
78-93-3	2-Butanone	1	<3.0	U	2.2	3.0	6.0
67-66-3	Chloroform	1	<1.2	U	0.5	1.2	2.4
74-97-5	Bromochloromethane	1	<1.2	U	0.4	1.2	2.4
71-55-6	1,1,1-Trichloroethane	1	<1.2	U	0.4	1.2	2.4
79-20-9	Methyl acetate	1	<6.0	U	1.9	6.0	12
110-82-7	Cyclohexane	1	<1.2	U	0.6	1.2	2.4
108-87-2	Methyl cyclohexane	1	<1.2	U	0.6	1.2	2.4
56-23-5	Carbon Tetrachloride	1	<1.2	U	0.7	1.2	2.4
107-06-2	1,2-Dichloroethane	1	<1.2	U	0.4	1.2	2.4
71-43-2	Benzene	1	<1.2	U	0.5	1.2	2.4
79-01-6	Trichloroethene	1	<1.2	U	0.6	1.2	2.4
78-87-5	1,2-Dichloropropane	1	<1.2	U	0.7	1.2	2.4
123-91-1	1,4-Dioxane	1	<60	U	6.6	60	120
75-27-4	Bromodichloromethane	1	<1.2	U	0.4	1.2	2.4
108-10-1	4-Methyl-2-pentanone	1	<3.0	U	1.7	3.0	6.0
591-78-6	2-Hexanone	1	<3.0	U	1.1	3.0	6.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.4
108-88-3	Toluene	1	<1.2	U	0.6	1.2	2.4
10061-02-6	trans-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.4

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	2FV015.D
Sampled:	06/19/13 13:30	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 21:28
Solids:	75.47	Preparation:	EPA 5030B_MS	Initial/Final:	5.52 g / 5 mL

Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004	Instrument:	OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.2	U	0.7	1.2	2.4
127-18-4	Tetrachloroethene	1	<1.2	U	0.6	1.2	2.4
124-48-1	Dibromochloromethane	1	<1.2	U	0.3	1.2	2.4
106-93-4	1,2-Dibromoethane	1	<1.2	U	0.4	1.2	2.4
108-90-7	Chlorobenzene	1	<1.2	U	0.6	1.2	2.4
100-41-4	Ethylbenzene	1	<1.2	U	0.7	1.2	2.4
108-38-3/106-42-3	m,p-Xylenes	1	<2.4	U	1.2	2.4	4.8
95-47-6	o-Xylene	1	<1.2	U	0.6	1.2	2.4
75-25-2	Bromoform	1	<1.2	U	0.4	1.2	2.4
100-42-5	Styrene	1	<1.2	U	0.5	1.2	2.4
98-82-8	Isopropylbenzene	1	<1.2	U	0.6	1.2	2.4
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.2	U	0.4	1.2	2.4
120-82-1	1,2,4-Trichlorobenzene	1	<1.2	U	1.0	1.2	2.4
541-73-1	1,3-Dichlorobenzene	1	<1.2	U	0.6	1.2	2.4
106-46-7	1,4-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.4
95-50-1	1,2-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.4
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.2	U	0.7	1.2	2.4
87-61-6	1,2,3-Trichlorobenzene	1	<1.2	U	1.1	1.2	2.4
1330-20-7	Xylenes (Total)	1	<2.4	U	1.2	2.4	4.8

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	60.0	59	98	74 - 133	
Toluene-d8	60.0	58	96	85 - 115	
4-Bromofluorobenzene	60.0	52	87	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1347780	11.31	1241586	11.31	
1,4-Difluorobenzene	1878184	11.89	1720455	11.89	
Chlorobenzene-d5	1594407	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	776955	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	2FV016.D
Sampled:	06/19/13 13:40	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 22:02
Solids:	75.96	Preparation:	EPA 5030B_MS	Initial/Final:	6.55 g / 5 mL
Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004
Instrument:	OVGCMS2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.6	1.0	2.0
74-87-3	Chloromethane	1	<1.0	U	0.7	1.0	2.0
75-01-4	Vinyl chloride	1	<1.0	U	0.4	1.0	2.0
74-83-9	Bromomethane	1	<5.0	U	0.9	5.0	10
75-00-3	Chloroethane	1	<1.0	U	0.5	1.0	2.0
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.5	1.0	2.0
76-13-1	Freon 113	1	<1.0	U	0.6	1.0	2.0
67-64-1	Acetone	1	45		1.7	13	25
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.6	1.0	2.0
75-15-0	Carbon disulfide	1	<5.0	U	2.1	5.0	10
75-09-2	Methylene Chloride	1	<5.0	U	0.7	5.0	10
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.3	1.0	2.0
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.7	1.0	2.0
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.5	1.0	2.0
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.6	1.0	2.0
78-93-3	2-Butanone	1	4.0	J	1.8	2.5	5.0
67-66-3	Chloroform	1	<1.0	U	0.4	1.0	2.0
74-97-5	Bromochloromethane	1	<1.0	U	0.4	1.0	2.0
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.4	1.0	2.0
79-20-9	Methyl acetate	1	<5.0	U	1.6	5.0	10
110-82-7	Cyclohexane	1	<1.0	U	0.5	1.0	2.0
108-87-2	Methyl cyclohexane	1	<1.0	U	0.5	1.0	2.0
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.6	1.0	2.0
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.3	1.0	2.0
71-43-2	Benzene	1	<1.0	U	0.4	1.0	2.0
79-01-6	Trichloroethene	1	<1.0	U	0.5	1.0	2.0
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.6	1.0	2.0
123-91-1	1,4-Dioxane	1	<50	U	5.5	50	100
75-27-4	Bromodichloromethane	1	<1.0	U	0.4	1.0	2.0
108-10-1	4-Methyl-2-pentanone	1	<2.5	U	1.4	2.5	5.0
591-78-6	2-Hexanone	1	<2.5	U	0.9	2.5	5.0
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0
108-88-3	Toluene	1	<1.0	U	0.5	1.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	2.0

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	2FV016.D
Sampled:	06/19/13 13:40	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 22:02
Solids:	75.96	Preparation:	EPA 5030B_MS	Initial/Final:	6.55 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.6	1.0	2.0
127-18-4	Tetrachloroethene	1	<1.0	U	0.5	1.0	2.0
124-48-1	Dibromochloromethane	1	<1.0	U	0.3	1.0	2.0
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.3	1.0	2.0
108-90-7	Chlorobenzene	1	<1.0	U	0.5	1.0	2.0
100-41-4	Ethylbenzene	1	<1.0	U	0.6	1.0	2.0
108-38-3/106-42-3	m,p-Xylenes	1	<2.0	U	1.0	2.0	4.0
95-47-6	o-Xylene	1	<1.0	U	0.5	1.0	2.0
75-25-2	Bromoform	1	<1.0	U	0.3	1.0	2.0
100-42-5	Styrene	1	<1.0	U	0.4	1.0	2.0
98-82-8	Isopropylbenzene	1	<1.0	U	0.5	1.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.3	1.0	2.0
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.9	1.0	2.0
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.5	1.0	2.0
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.5	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.0	U	0.6	1.0	2.0
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.9	1.0	2.0
1330-20-7	Xylenes (Total)	1	<2.0	U	1.0	2.0	4.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.3	51	102	74 - 133	
Toluene-d8	50.3	52	103	85 - 115	
4-Bromofluorobenzene	50.3	53	105	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1379398	11.31	1241586	11.31	
1,4-Difluorobenzene	1956594	11.88	1720455	11.89	
Chlorobenzene-d5	1645239	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	847184	16.88	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	2FV017.D
Sampled:	06/19/13 14:00	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 22:37
Solids:	76.63	Preparation:	EPA 5030B_MS	Initial/Final:	5.56 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.2	U	0.7	1.2	2.3
74-87-3	Chloromethane	1	<1.2	U	0.8	1.2	2.3
75-01-4	Vinyl chloride	1	<1.2	U	0.5	1.2	2.3
74-83-9	Bromomethane	1	<5.9	U	1.1	5.9	12
75-00-3	Chloroethane	1	<1.2	U	0.6	1.2	2.3
75-69-4	Trichlorofluoromethane	1	<1.2	U	0.6	1.2	2.3
76-13-1	Freon 113	1	<1.2	U	0.7	1.2	2.3
67-64-1	Acetone	1	<15	U	2.0	15	29
75-35-4	1,1-Dichloroethene	1	<1.2	U	0.7	1.2	2.3
75-15-0	Carbon disulfide	1	<5.9	U	2.5	5.9	12
75-09-2	Methylene Chloride	1	<5.9	U	0.8	5.9	12
1634-04-4	Methyl-tert-Butyl Ether	1	<1.2	U	0.3	1.2	2.3
156-60-5	trans-1,2-Dichloroethene	1	<1.2	U	0.8	1.2	2.3
156-59-2	cis-1,2-Dichloroethene	1	<1.2	U	0.6	1.2	2.3
75-34-3	1,1-Dichloroethane	1	<1.2	U	0.7	1.2	2.3
78-93-3	2-Butanone	1	<2.9	U	2.1	2.9	5.9
67-66-3	Chloroform	1	0.6	J	0.5	1.2	2.3
74-97-5	Bromochloromethane	1	<1.2	U	0.4	1.2	2.3
71-55-6	1,1,1-Trichloroethane	1	<1.2	U	0.4	1.2	2.3
79-20-9	Methyl acetate	1	<5.9	U	1.9	5.9	12
110-82-7	Cyclohexane	1	<1.2	U	0.6	1.2	2.3
108-87-2	Methyl cyclohexane	1	<1.2	U	0.6	1.2	2.3
56-23-5	Carbon Tetrachloride	1	<1.2	U	0.7	1.2	2.3
107-06-2	1,2-Dichloroethane	1	<1.2	U	0.4	1.2	2.3
71-43-2	Benzene	1	<1.2	U	0.5	1.2	2.3
79-01-6	Trichloroethene	1	<1.2	U	0.6	1.2	2.3
78-87-5	1,2-Dichloropropane	1	<1.2	U	0.6	1.2	2.3
123-91-1	1,4-Dioxane	1	<59	U	6.5	59	120
75-27-4	Bromodichloromethane	1	<1.2	U	0.4	1.2	2.3
108-10-1	4-Methyl-2-pentanone	1	<2.9	U	1.6	2.9	5.9
591-78-6	2-Hexanone	1	<2.9	U	1.1	2.9	5.9
10061-01-5	cis-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.3
108-88-3	Toluene	1	<1.2	U	0.5	1.2	2.3
10061-02-6	trans-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.3

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	2FV017.D
Sampled:	06/19/13 14:00	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 22:37
Solids:	76.63	Preparation:	EPA 5030B_MS	Initial/Final:	5.56 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.2	U	0.7	1.2	2.3
127-18-4	Tetrachloroethene	1	<1.2	U	0.6	1.2	2.3
124-48-1	Dibromochloromethane	1	<1.2	U	0.3	1.2	2.3
106-93-4	1,2-Dibromoethane	1	<1.2	U	0.4	1.2	2.3
108-90-7	Chlorobenzene	1	<1.2	U	0.6	1.2	2.3
100-41-4	Ethylbenzene	1	<1.2	U	0.7	1.2	2.3
108-38-3/106-42-3	m,p-Xylenes	1	<2.3	U	1.2	2.3	4.7
95-47-6	o-Xylene	1	<1.2	U	0.6	1.2	2.3
75-25-2	Bromoform	1	<1.2	U	0.4	1.2	2.3
100-42-5	Styrene	1	<1.2	U	0.5	1.2	2.3
98-82-8	Isopropylbenzene	1	<1.2	U	0.6	1.2	2.3
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.2	U	0.4	1.2	2.3
120-82-1	1,2,4-Trichlorobenzene	1	<1.2	U	1.0	1.2	2.3
541-73-1	1,3-Dichlorobenzene	1	<1.2	U	0.6	1.2	2.3
106-46-7	1,4-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
95-50-1	1,2-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.3
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.2	U	0.7	1.2	2.3
87-61-6	1,2,3-Trichlorobenzene	1	<1.2	U	1.1	1.2	2.3
1330-20-7	Xylenes (Total)	1	<2.3	U	1.2	2.3	4.7

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
007785-70-8	1R-.alpha.-Pinene	15.18	5.9	J
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	58.7	59	100	74 - 133	
Toluene-d8	58.7	57	98	85 - 115	
4-Bromofluorobenzene	58.7	57	96	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1360164	11.31	1241586	11.31	
1,4-Difluorobenzene	1954100	11.89	1720455	11.89	
Chlorobenzene-d5	1640533	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	827335	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	2FV018.D
Sampled:	06/19/13 14:10	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 23:11
Solids:	80.94	Preparation:	EPA 5030B_MS	Initial/Final:	6.35 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.0	U	0.6	1.0	1.9
74-87-3	Chloromethane	1	<1.0	U	0.6	1.0	1.9
75-01-4	Vinyl chloride	1	<1.0	U	0.4	1.0	1.9
74-83-9	Bromomethane	1	<4.9	U	0.9	4.9	9.7
75-00-3	Chloroethane	1	<1.0	U	0.5	1.0	1.9
75-69-4	Trichlorofluoromethane	1	<1.0	U	0.5	1.0	1.9
76-13-1	Freon 113	1	<1.0	U	0.6	1.0	1.9
67-64-1	Acetone	1	<12	U	1.7	12	24
75-35-4	1,1-Dichloroethene	1	<1.0	U	0.6	1.0	1.9
75-15-0	Carbon disulfide	1	<4.9	U	2.0	4.9	9.7
75-09-2	Methylene Chloride	1	<4.9	U	0.7	4.9	9.7
1634-04-4	Methyl-tert-Butyl Ether	1	<1.0	U	0.3	1.0	1.9
156-60-5	trans-1,2-Dichloroethene	1	<1.0	U	0.7	1.0	1.9
156-59-2	cis-1,2-Dichloroethene	1	<1.0	U	0.5	1.0	1.9
75-34-3	1,1-Dichloroethane	1	<1.0	U	0.6	1.0	1.9
78-93-3	2-Butanone	1	<2.4	U	1.8	2.4	4.9
67-66-3	Chloroform	1	<1.0	U	0.4	1.0	1.9
74-97-5	Bromochloromethane	1	<1.0	U	0.3	1.0	1.9
71-55-6	1,1,1-Trichloroethane	1	<1.0	U	0.3	1.0	1.9
79-20-9	Methyl acetate	1	<4.9	U	1.6	4.9	9.7
110-82-7	Cyclohexane	1	<1.0	U	0.5	1.0	1.9
108-87-2	Methyl cyclohexane	1	<1.0	U	0.5	1.0	1.9
56-23-5	Carbon Tetrachloride	1	<1.0	U	0.6	1.0	1.9
107-06-2	1,2-Dichloroethane	1	<1.0	U	0.3	1.0	1.9
71-43-2	Benzene	1	<1.0	U	0.4	1.0	1.9
79-01-6	Trichloroethene	1	<1.0	U	0.5	1.0	1.9
78-87-5	1,2-Dichloropropane	1	<1.0	U	0.5	1.0	1.9
123-91-1	1,4-Dioxane	1	<49	U	5.4	49	97
75-27-4	Bromodichloromethane	1	<1.0	U	0.3	1.0	1.9
108-10-1	4-Methyl-2-pentanone	1	<2.4	U	1.4	2.4	4.9
591-78-6	2-Hexanone	1	<2.4	U	0.9	2.4	4.9
10061-01-5	cis-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	1.9
108-88-3	Toluene	1	<1.0	U	0.4	1.0	1.9
10061-02-6	trans-1,3-Dichloropropene	1	<1.0	U	0.3	1.0	1.9

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	2FV018.D
Sampled:	06/19/13 14:10	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 23:11
Solids:	80.94	Preparation:	EPA 5030B_MS	Initial/Final:	6.35 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.0	U	0.6	1.0	1.9
127-18-4	Tetrachloroethene	1	<1.0	U	0.5	1.0	1.9
124-48-1	Dibromochloromethane	1	<1.0	U	0.3	1.0	1.9
106-93-4	1,2-Dibromoethane	1	<1.0	U	0.3	1.0	1.9
108-90-7	Chlorobenzene	1	<1.0	U	0.5	1.0	1.9
100-41-4	Ethylbenzene	1	<1.0	U	0.5	1.0	1.9
108-38-3/106-42-3	m,p-Xylenes	1	<1.9	U	1.0	1.9	3.9
95-47-6	o-Xylene	1	<1.0	U	0.5	1.0	1.9
75-25-2	Bromoform	1	<1.0	U	0.3	1.0	1.9
100-42-5	Styrene	1	<1.0	U	0.4	1.0	1.9
98-82-8	Isopropylbenzene	1	<1.0	U	0.5	1.0	1.9
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.0	U	0.3	1.0	1.9
120-82-1	1,2,4-Trichlorobenzene	1	<1.0	U	0.8	1.0	1.9
541-73-1	1,3-Dichlorobenzene	1	<1.0	U	0.5	1.0	1.9
106-46-7	1,4-Dichlorobenzene	1	<1.0	U	0.4	1.0	1.9
95-50-1	1,2-Dichlorobenzene	1	<1.0	U	0.4	1.0	1.9
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.0	U	0.6	1.0	1.9
87-61-6	1,2,3-Trichlorobenzene	1	<1.0	U	0.9	1.0	1.9
1330-20-7	Xylenes (Total)	1	<1.9	U	1.0	1.9	3.9

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	48.6	53	109	74 - 133	
Toluene-d8	48.6	51	105	85 - 115	
4-Bromofluorobenzene	48.6	49	101	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1289083	11.31	1241586	11.31	
1,4-Difluorobenzene	1832861	11.89	1720455	11.89	
Chlorobenzene-d5	1535520	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	777227	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	2FV019.D
Sampled:	06/19/13 14:15	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 23:44
Solids:	86.11	Preparation:	EPA 5030B_MS	Initial/Final:	6.84 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<0.8	U	0.5	0.8	1.7
74-87-3	Chloromethane	1	<0.8	U	0.6	0.8	1.7
75-01-4	Vinyl chloride	1	<0.8	U	0.4	0.8	1.7
74-83-9	Bromomethane	1	<4.2	U	0.8	4.2	8.5
75-00-3	Chloroethane	1	<0.8	U	0.5	0.8	1.7
75-69-4	Trichlorofluoromethane	1	<0.8	U	0.5	0.8	1.7
76-13-1	Freon 113	1	<0.8	U	0.5	0.8	1.7
67-64-1	Acetone	1	<11	U	1.4	11	21
75-35-4	1,1-Dichloroethene	1	<0.8	U	0.5	0.8	1.7
75-15-0	Carbon disulfide	1	<4.2	U	1.8	4.2	8.5
75-09-2	Methylene Chloride	1	<4.2	U	0.6	4.2	8.5
1634-04-4	Methyl-tert-Butyl Ether	1	<0.8	U	0.2	0.8	1.7
156-60-5	trans-1,2-Dichloroethene	1	<0.8	U	0.6	0.8	1.7
156-59-2	cis-1,2-Dichloroethene	1	<0.8	U	0.4	0.8	1.7
75-34-3	1,1-Dichloroethane	1	<0.8	U	0.5	0.8	1.7
78-93-3	2-Butanone	1	<2.1	U	1.5	2.1	4.2
67-66-3	Chloroform	1	<0.8	U	0.4	0.8	1.7
74-97-5	Bromochloromethane	1	<0.8	U	0.3	0.8	1.7
71-55-6	1,1,1-Trichloroethane	1	<0.8	U	0.3	0.8	1.7
79-20-9	Methyl acetate	1	<4.2	U	1.4	4.2	8.5
110-82-7	Cyclohexane	1	<0.8	U	0.4	0.8	1.7
108-87-2	Methyl cyclohexane	1	<0.8	U	0.4	0.8	1.7
56-23-5	Carbon Tetrachloride	1	<0.8	U	0.5	0.8	1.7
107-06-2	1,2-Dichloroethane	1	<0.8	U	0.3	0.8	1.7
71-43-2	Benzene	1	<0.8	U	0.3	0.8	1.7
79-01-6	Trichloroethene	1	<0.8	U	0.4	0.8	1.7
78-87-5	1,2-Dichloropropane	1	<0.8	U	0.5	0.8	1.7
123-91-1	1,4-Dioxane	1	<42	U	4.7	42	85
75-27-4	Bromodichloromethane	1	<0.8	U	0.3	0.8	1.7
108-10-1	4-Methyl-2-pentanone	1	<2.1	U	1.2	2.1	4.2
591-78-6	2-Hexanone	1	<2.1	U	0.8	2.1	4.2
10061-01-5	cis-1,3-Dichloropropene	1	<0.8	U	0.3	0.8	1.7
108-88-3	Toluene	1	<0.8	U	0.4	0.8	1.7
10061-02-6	trans-1,3-Dichloropropene	1	<0.8	U	0.3	0.8	1.7

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	2FV019.D
Sampled:	06/19/13 14:15	Prepared:	06/27/13 12:23	Analyzed:	06/27/13 23:44
Solids:	86.11	Preparation:	EPA 5030B_MS	Initial/Final:	6.84 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<0.8	U	0.5	0.8	1.7
127-18-4	Tetrachloroethene	1	<0.8	U	0.4	0.8	1.7
124-48-1	Dibromochloromethane	1	<0.8	U	0.2	0.8	1.7
106-93-4	1,2-Dibromoethane	1	<0.8	U	0.3	0.8	1.7
108-90-7	Chlorobenzene	1	<0.8	U	0.4	0.8	1.7
100-41-4	Ethylbenzene	1	<0.8	U	0.5	0.8	1.7
108-38-3/106-42-3	m,p-Xylenes	1	<1.7	U	0.8	1.7	3.4
95-47-6	o-Xylene	1	<0.8	U	0.4	0.8	1.7
75-25-2	Bromoform	1	<0.8	U	0.3	0.8	1.7
100-42-5	Styrene	1	<0.8	U	0.4	0.8	1.7
98-82-8	Isopropylbenzene	1	<0.8	U	0.5	0.8	1.7
79-34-5	1,1,2,2-Tetrachloroethane	1	<0.8	U	0.3	0.8	1.7
120-82-1	1,2,4-Trichlorobenzene	1	<0.8	U	0.7	0.8	1.7
541-73-1	1,3-Dichlorobenzene	1	<0.8	U	0.4	0.8	1.7
106-46-7	1,4-Dichlorobenzene	1	<0.8	U	0.4	0.8	1.7
95-50-1	1,2-Dichlorobenzene	1	<0.8	U	0.4	0.8	1.7
96-12-8	1,2-Dibromo-3-chloropropane	1	<0.8	U	0.5	0.8	1.7
87-61-6	1,2,3-Trichlorobenzene	1	<0.8	U	0.8	0.8	1.7
1330-20-7	Xylenes (Total)	1	<1.7	U	0.8	1.7	3.4

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	42.4	44	104	74 - 133	
Toluene-d8	42.4	44	104	85 - 115	
4-Bromofluorobenzene	42.4	42	99	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1305659	11.32	1241586	11.31	
1,4-Difluorobenzene	1839859	11.89	1720455	11.89	
Chlorobenzene-d5	1581220	14.56	1501037	14.56	
1,4-Dichlorobenzene-d4	800544	16.89	749187	16.89	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2FV020.D
Sampled:	06/19/13 14:30	Prepared:	06/27/13 12:23	Analyzed:	06/28/13 00:17
Solids:	72.13	Preparation:	EPA 5030B_MS	Initial/Final:	5.56 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
75-71-8	Dichlorodifluoromethane	1	<1.2	U	0.8	1.2	2.5
74-87-3	Chloromethane	1	<1.2	U	0.8	1.2	2.5
75-01-4	Vinyl chloride	1	<1.2	U	0.5	1.2	2.5
74-83-9	Bromomethane	1	<6.2	U	1.1	6.2	12
75-00-3	Chloroethane	1	<1.2	U	0.7	1.2	2.5
75-69-4	Trichlorofluoromethane	1	<1.2	U	0.7	1.2	2.5
76-13-1	Freon 113	1	<1.2	U	0.7	1.2	2.5
67-64-1	Acetone	1	73		2.1	16	31
75-35-4	1,1-Dichloroethene	1	<1.2	U	0.8	1.2	2.5
75-15-0	Carbon disulfide	1	<6.2	U	2.6	6.2	12
75-09-2	Methylene Chloride	1	<6.2	U	0.9	6.2	12
1634-04-4	Methyl-tert-Butyl Ether	1	<1.2	U	0.3	1.2	2.5
156-60-5	trans-1,2-Dichloroethene	1	<1.2	U	0.9	1.2	2.5
156-59-2	cis-1,2-Dichloroethene	1	<1.2	U	0.7	1.2	2.5
75-34-3	1,1-Dichloroethane	1	<1.2	U	0.7	1.2	2.5
78-93-3	2-Butanone	1	15		2.2	3.1	6.2
67-66-3	Chloroform	1	<1.2	U	0.5	1.2	2.5
74-97-5	Bromochloromethane	1	<1.2	U	0.4	1.2	2.5
71-55-6	1,1,1-Trichloroethane	1	<1.2	U	0.4	1.2	2.5
79-20-9	Methyl acetate	1	<6.2	U	2.0	6.2	12
110-82-7	Cyclohexane	1	<1.2	U	0.7	1.2	2.5
108-87-2	Methyl cyclohexane	1	<1.2	U	0.6	1.2	2.5
56-23-5	Carbon Tetrachloride	1	<1.2	U	0.7	1.2	2.5
107-06-2	1,2-Dichloroethane	1	<1.2	U	0.4	1.2	2.5
71-43-2	Benzene	1	2.2	J	0.5	1.2	2.5
79-01-6	Trichloroethene	1	<1.2	U	0.6	1.2	2.5
78-87-5	1,2-Dichloropropane	1	<1.2	U	0.7	1.2	2.5
123-91-1	1,4-Dioxane	1	<62	U	6.9	62	120
75-27-4	Bromodichloromethane	1	<1.2	U	0.4	1.2	2.5
108-10-1	4-Methyl-2-pentanone	1	<3.1	U	1.7	3.1	6.2
591-78-6	2-Hexanone	1	<3.1	U	1.1	3.1	6.2
10061-01-5	cis-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.5
108-88-3	Toluene	1	1.4	J	0.6	1.2	2.5
10061-02-6	trans-1,3-Dichloropropene	1	<1.2	U	0.4	1.2	2.5

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2FV020.D
Sampled:	06/19/13 14:30	Prepared:	06/27/13 12:23	Analyzed:	06/28/13 00:17
Solids:	72.13	Preparation:	EPA 5030B_MS	Initial/Final:	5.56 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
79-00-5	1,1,2-Trichloroethane	1	<1.2	U	0.7	1.2	2.5
127-18-4	Tetrachloroethene	1	<1.2	U	0.6	1.2	2.5
124-48-1	Dibromochloromethane	1	<1.2	U	0.3	1.2	2.5
106-93-4	1,2-Dibromoethane	1	<1.2	U	0.4	1.2	2.5
108-90-7	Chlorobenzene	1	<1.2	U	0.6	1.2	2.5
100-41-4	Ethylbenzene	1	3.2		0.7	1.2	2.5
108-38-3/106-42-3	m,p-Xylenes	1	6.5		1.2	2.5	5.0
95-47-6	o-Xylene	1	5.7		0.6	1.2	2.5
75-25-2	Bromoform	1	<1.2	U	0.4	1.2	2.5
100-42-5	Styrene	1	<1.2	U	0.5	1.2	2.5
98-82-8	Isopropylbenzene	1	1.7	J	0.7	1.2	2.5
79-34-5	1,1,2,2-Tetrachloroethane	1	<1.2	U	0.4	1.2	2.5
120-82-1	1,2,4-Trichlorobenzene	1	<1.2	U	1.1	1.2	2.5
541-73-1	1,3-Dichlorobenzene	1	<1.2	U	0.6	1.2	2.5
106-46-7	1,4-Dichlorobenzene	1	<1.2	U	0.6	1.2	2.5
95-50-1	1,2-Dichlorobenzene	1	<1.2	U	0.5	1.2	2.5
96-12-8	1,2-Dibromo-3-chloropropane	1	<1.2	U	0.7	1.2	2.5
87-61-6	1,2,3-Trichlorobenzene	1	<1.2	U	1.1	1.2	2.5
1330-20-7	Xylenes (Total)	1	12		1.2	2.5	5.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000104-55-2	2-Propenal, 3-phenyl-	18.29	7.9	J
000620-14-4	Benzene, 1-ethyl-3-methyl-	15.81	7.1	J
000270-82-6	Benzo[c]thiophene	20.74	19	J
004265-25-2	Benzofuran, 2-methyl-	18.53	10	J
000767-58-8	Indan, 1-methyl- (01)	17.78	6.6	J
000767-58-8	Indan, 1-methyl- (02)	18.59	12	J
000767-58-8	Indan, 1-methyl- (03)	18.92	21	J
000496-11-7	Indane	17.09	110	J
000095-13-6	Indene	17.51	7.3	J
000075-45-6	Methane, chlorodifluoro-	4.94	10	J
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Dibromofluoromethane	62.3	56	90	74 - 133	
Toluene-d8	62.3	57	92	85 - 115	
4-Bromofluorobenzene	62.3	54	87	85 - 120	

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2FV020.D
Sampled:	06/19/13 14:30	Prepared:	06/27/13 12:23	Analyzed:	06/28/13 00:17
Solids:	72.13	Preparation:	EPA 5030B_MS	Initial/Final:	5.56 g / 5 mL

Batch: 3F27024 Sequence: AA24731 Calibration: 1306004 Instrument: OVGCMS2

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1377580	11.32	1241586	11.31	
1,4-Difluorobenzene	1973757	11.89	1720455	11.89	
Chlorobenzene-d5	1618413	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	817874	16.89	749187	16.89	

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-TB01-061913	06/19/13 08:00	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 22:14	9.00	14.00	
TR-TB01-061913	06/19/13 08:00	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 22:14	9.00	14.00	
TR-TB01-061913	06/19/13 08:00	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 17:19	12.00	14.00	
TR-TB01-061913	06/19/13 08:00	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 17:19	12.00	14.00	
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 16:47	8.00	14.00	
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 16:47	8.00	14.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 17:23	8.00	14.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 17:23	8.00	14.00	
TR-2ND-SB07-GW-0613	06/19/13 10:45	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 22:46	9.00	14.00	
TR-2ND-SB07-GW-0613	06/19/13 10:45	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 22:46	9.00	14.00	
TR-2ND-SB07-GW-0613	06/19/13 10:45	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 17:49	12.00	14.00	
TR-2ND-SB07-GW-0613	06/19/13 10:45	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 17:49	12.00	14.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 17:58	8.00	14.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 17:58	8.00	14.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 18:33	8.00	14.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 18:33	8.00	14.00	
TR-2ND-SB06D-0.5-01-0613	06/19/13 11:25	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 19:08	8.00	14.00	
TR-2ND-SB06D-0.5-01-0613	06/19/13 11:25	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 19:08	8.00	14.00	
TR-2ND-SB06D-05-07-0613	06/19/13 11:35	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 19:42	8.00	14.00	
TR-2ND-SB06D-05-07-0613	06/19/13 11:35	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 19:42	8.00	14.00	
TR-2ND-SB06-GW-0613	06/19/13 12:00	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 23:18	9.00	14.00	
TR-2ND-SB06-GW-0613	06/19/13 12:00	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 23:18	9.00	14.00	
TR-2ND-SB06-GW-0613	06/19/13 12:00	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 18:19	12.00	14.00	

HOLDING TIME SUMMARY

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-2ND-SB06-GW-0613	06/19/13 12:00	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 18:19	12.00	14.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 20:17	8.00	14.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 20:17	8.00	14.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 20:53	8.00	14.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 20:53	8.00	14.00	
TR-2ND-SB04-GW-0613	06/19/13 13:00	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 23:50	9.00	14.00	
TR-2ND-SB04-GW-0613	06/19/13 13:00	06/20/13 09:20	06/28/13 12:07	NA	NA	06/28/13 23:50	9.00	14.00	
TR-2ND-SB04-GW-0613	06/19/13 13:00	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 18:49	12.00	14.00	
TR-2ND-SB04-GW-0613	06/19/13 13:00	06/20/13 09:20	07/01/13 12:07	NA	NA	07/01/13 18:49	12.00	14.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 21:28	8.00	14.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 21:28	8.00	14.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 22:02	8.00	14.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 22:02	8.00	14.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 22:37	8.00	14.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 22:37	8.00	14.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 23:11	8.00	14.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 23:11	8.00	14.00	
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 23:44	8.00	14.00	
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/27/13 12:23	NA	NA	06/27/13 23:44	8.00	14.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/27/13 12:23	NA	NA	06/28/13 00:17	8.00	14.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/27/13 12:23	NA	NA	06/28/13 00:17	8.00	14.00	

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Batch: 3F27024
Batch Matrix: Soil
Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F27024-BLK1	2FV006.D	06/27/13 12:23	
LCS	3F27024-BS1	2FV003.D	06/27/13 12:23	
LCS Dup	3F27024-BSD1	2FV004.D	06/27/13 12:23	
TR-2ND-SB07-0.5-01-0613	A303499-06	2FV007.D	06/27/13 12:23	
TR-2ND-SB07-0.5-01-0613	A303499-06	2FV007.D	06/27/13 12:23	
TR-2ND-SB07-04-06-0613	A303499-07	2FV008.D	06/27/13 12:23	
TR-2ND-SB07-04-06-0613	A303499-07	2FV008.D	06/27/13 12:23	
TR-2ND-SB06-0.5-01-0613	A303499-09	2FV009.D	06/27/13 12:23	
TR-2ND-SB06-0.5-01-0613	A303499-09	2FV009.D	06/27/13 12:23	
TR-2ND-SB06-05-07-0613	A303499-10	2FV010.D	06/27/13 12:23	
TR-2ND-SB06-05-07-0613	A303499-10	2FV010.D	06/27/13 12:23	
TR-2ND-SB06D-0.5-01-0613	A303499-11	2FV011.D	06/27/13 12:23	
TR-2ND-SB06D-0.5-01-0613	A303499-11	2FV011.D	06/27/13 12:23	
TR-2ND-SB06D-05-07-0613	A303499-12	2FV012.D	06/27/13 12:23	
TR-2ND-SB06D-05-07-0613	A303499-12	2FV012.D	06/27/13 12:23	
TR-2ND-SB04-0.5-01-0613	A303499-14	2FV013.D	06/27/13 12:23	
TR-2ND-SB04-0.5-01-0613	A303499-14	2FV013.D	06/27/13 12:23	
TR-2ND-SB04-04-06-0613	A303499-15	2FV014.D	06/27/13 12:23	
TR-2ND-SB04-04-06-0613	A303499-15	2FV014.D	06/27/13 12:23	
TR-2ND-SB05-0.5-01-0613	A303499-17	2FV015.D	06/27/13 12:23	
TR-2ND-SB05-0.5-01-0613	A303499-17	2FV015.D	06/27/13 12:23	
TR-2ND-SB05-03-05-0613	A303499-18	2FV016.D	06/27/13 12:23	
TR-2ND-SB05-03-05-0613	A303499-18	2FV016.D	06/27/13 12:23	
TR-2ND-SB03-0.5-01-0613	A303499-19	2FV017.D	06/27/13 12:23	
TR-2ND-SB03-0.5-01-0613	A303499-19	2FV017.D	06/27/13 12:23	
TR-2ND-SB03-04-06-0613	A303499-20	2FV018.D	06/27/13 12:23	
TR-2ND-SB03-04-06-0613	A303499-20	2FV018.D	06/27/13 12:23	
TR-2ND-SB02-0.5-1-0613	A303499-21	2FV019.D	06/27/13 12:23	
TR-2ND-SB02-0.5-1-0613	A303499-21	2FV019.D	06/27/13 12:23	
TR-2ND-SB02-06-08-0613	A303499-22	2FV020.D	06/27/13 12:23	
TR-2ND-SB02-06-08-0613	A303499-22	2FV020.D	06/27/13 12:23	

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F28011 Batch Matrix: Water

Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F28011-BLK1	2FW005.D	06/28/13 12:07	
LCS	3F28011-BS1	2FW003.D	06/28/13 12:07	
LCS Dup	3F28011-BSD1	2FW004.D	06/28/13 12:07	
TR-TB01-061913	A303499-01	2FW014.D	06/28/13 12:07	
TR-TB01-061913	A303499-01	2FW014.D	06/28/13 12:07	
TR-2ND-SB07-GW-0613	A303499-08	2FW015.D	06/28/13 12:07	
TR-2ND-SB07-GW-0613	A303499-08	2FW015.D	06/28/13 12:07	
TR-2ND-SB06-GW-0613	A303499-13	2FW016.D	06/28/13 12:07	
TR-2ND-SB06-GW-0613	A303499-13	2FW016.D	06/28/13 12:07	
TR-2ND-SB04-GW-0613	A303499-16	2FW017.D	06/28/13 12:07	
TR-2ND-SB04-GW-0613	A303499-16	2FW017.D	06/28/13 12:07	

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F30006 Batch Matrix: Water

Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F30006-BLK1	3G1005.D	07/01/13 12:13	
LCS	3F30006-BS1	3G1003.D	07/01/13 12:13	
LCS Dup	3F30006-BSD1	3G1004.D	07/01/13 12:13	
TR-TB01-061913	A303499-01RE1	3G1011.D	07/01/13 12:07	
TR-2ND-SB07-GW-0613	A303499-08RE1	3G1012.D	07/01/13 12:07	
TR-2ND-SB06-GW-0613	A303499-13RE1	3G1013.D	07/01/13 12:07	
TR-2ND-SB04-GW-0613	A303499-16RE1	3G1014.D	07/01/13 12:07	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F27024-BLK1	File ID:	2FV006.D
Prepared:	06/27/13 12:23	Preparation:	EPA 5030B_MS	Initial/Final:	5 g / 5 mL
Analyzed:	06/27/13 16:11	Instrument:	OVGCMS2		
Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
75-71-8	Dichlorodifluoromethane	<1.0	U
74-87-3	Chloromethane	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
74-83-9	Bromomethane	<5.0	U
75-00-3	Chloroethane	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
76-13-1	Freon 113	<1.0	U
67-64-1	Acetone	<12	U
75-35-4	1,1-Dichloroethene	<1.0	U
75-15-0	Carbon disulfide	<5.0	U
75-09-2	Methylene Chloride	<5.0	U
1634-04-4	Methyl-tert-Butyl Ether	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
75-34-3	1,1-Dichloroethane	<1.0	U
78-93-3	2-Butanone	<2.5	U
67-66-3	Chloroform	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-20-9	Methyl acetate	<5.0	U
110-82-7	Cyclohexane	<1.0	U
108-87-2	Methyl cyclohexane	<1.0	U
56-23-5	Carbon Tetrachloride	<1.0	U
107-06-2	1,2-Dichloroethane	<1.0	U
71-43-2	Benzene	<1.0	U
79-01-6	Trichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
123-91-1	1,4-Dioxane	<50	U
75-27-4	Bromodichloromethane	<1.0	U
108-10-1	4-Methyl-2-pentanone	<2.5	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F27024-BLK1	File ID:	2FV006.D
Prepared:	06/27/13 12:23	Preparation:	EPA 5030B_MS	Initial/Final:	5 g / 5 mL
Analyzed:	06/27/13 16:11	Instrument:	OVGCMS2		
Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
591-78-6	2-Hexanone	<2.5	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U
108-88-3	Toluene	<1.0	U
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
100-41-4	Ethylbenzene	<1.0	U
108-38-3/106-42-3	m,p-Xylenes	<2.0	U
95-47-6	o-Xylene	<1.0	U
75-25-2	Bromoform	<1.0	U
100-42-5	Styrene	<1.0	U
98-82-8	Isopropylbenzene	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<1.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
1330-20-7	Xylenes (Total)	<2.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	55	109	74 - 133	
Toluene-d8	50.0	54	109	85 - 115	
4-Bromofluorobenzene	50.0	55	110	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1378524	11.31	1241586	11.31	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F27024-BLK1	File ID:	2FV006.D
Prepared:	06/27/13 12:23	Preparation:	EPA 5030B_MS	Initial/Final:	5 g / 5 mL
Analyzed:	06/27/13 16:11	Instrument:	OVGCMS2		
Batch:	3F27024	Sequence:	AA24731	Calibration:	1306004

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	1921966	11.89	1720455	11.89	
Chlorobenzene-d5	1633411	14.55	1501037	14.56	
1,4-Dichlorobenzene-d4	803711	16.89	749187	16.89	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F28011-BLK1	File ID:	2FW005.D
Prepared:	06/28/13 12:07	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	06/28/13 17:22	Instrument:	OVGCMS2		
Batch:	3F28011	Sequence:	AA24752	Calibration:	1301050

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	<1.0	U
74-87-3	Chloromethane	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
74-83-9	Bromomethane	<1.0	U
75-00-3	Chloroethane	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
76-13-1	Freon 113	<1.0	U
67-64-1	Acetone	<12	U
75-35-4	1,1-Dichloroethene	<1.0	U
75-15-0	Carbon disulfide	<5.0	U
75-09-2	Methylene Chloride	<5.0	U
1634-04-4	Methyl-tert-Butyl Ether	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
75-34-3	1,1-Dichloroethane	<1.0	U
78-93-3	2-Butanone	<12	U
67-66-3	Chloroform	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-20-9	Methyl acetate	<1.0	U
110-82-7	Cyclohexane	<1.0	U
108-87-2	Methyl cyclohexane	<1.0	U
56-23-5	Carbon Tetrachloride	<1.0	U
107-06-2	1,2-Dichloroethane	<1.0	U
71-43-2	Benzene	<1.0	U
79-01-6	Trichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
123-91-1	1,4-Dioxane	<50	U
75-27-4	Bromodichloromethane	<1.0	U
108-10-1	4-Methyl-2-pentanone	<2.5	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F28011-BLK1	File ID:	2FW005.D
Prepared:	06/28/13 12:07	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	06/28/13 17:22	Instrument:	OVGCMS2		
Batch:	3F28011	Sequence:	AA24752	Calibration:	1301050

CAS NO.	COMPOUND	CONC. (ug/L)	Q
591-78-6	2-Hexanone	<2.5	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U
108-88-3	Toluene	<1.0	U
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
100-41-4	Ethylbenzene	<1.0	U
108-38-3/106-42-3	m,p-Xylenes	<2.0	U
95-47-6	o-Xylene	<1.0	U
75-25-2	Bromoform	<1.0	U
100-42-5	Styrene	<1.0	U
98-82-8	Isopropylbenzene	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
1330-20-7	Xylenes (Total)	<2.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	44	87	85 - 115	
Toluene-d8	50.0	51	103	85 - 120	
4-Bromofluorobenzene	50.0	52	103	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1288519	11.31	1226866	11.31	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F28011-BLK1	File ID:	2FW005.D
Prepared:	06/28/13 12:07	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	06/28/13 17:22	Instrument:	OVGCMS2		
Batch:	3F28011	Sequence:	AA24752	Calibration:	1301050

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	1810915	11.89	1885250	11.89	
Chlorobenzene-d5	1476376	14.56	1630693	14.56	
1,4-Dichlorobenzene-d4	715805	16.89	801552	16.89	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F30006-BLK1	File ID:	3G1005.D
Prepared:	07/01/13 12:13	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	07/01/13 14:19	Instrument:	OVGCMS3		
Batch:	3F30006	Sequence:	AA24769	Calibration:	1306033

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	<1.0	U
74-87-3	Chloromethane	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
74-83-9	Bromomethane	<1.0	U
75-00-3	Chloroethane	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
76-13-1	Freon 113	<1.0	U
67-64-1	Acetone	<12	U
75-35-4	1,1-Dichloroethene	<1.0	U
75-15-0	Carbon disulfide	<5.0	U
75-09-2	Methylene Chloride	<5.0	U
1634-04-4	Methyl-tert-Butyl Ether	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
75-34-3	1,1-Dichloroethane	<1.0	U
78-93-3	2-Butanone	<12	U
67-66-3	Chloroform	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-20-9	Methyl acetate	<1.0	U
110-82-7	Cyclohexane	<1.0	U
108-87-2	Methyl cyclohexane	<1.0	U
56-23-5	Carbon Tetrachloride	<1.0	U
107-06-2	1,2-Dichloroethane	<1.0	U
71-43-2	Benzene	<1.0	U
79-01-6	Trichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
123-91-1	1,4-Dioxane	<50	U
75-27-4	Bromodichloromethane	<1.0	U
108-10-1	4-Methyl-2-pentanone	<2.5	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F30006-BLK1	File ID:	3G1005.D
Prepared:	07/01/13 12:13	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	07/01/13 14:19	Instrument:	OVGCMS3		
Batch:	3F30006	Sequence:	AA24769	Calibration:	1306033

CAS NO.	COMPOUND	CONC. (ug/L)	Q
591-78-6	2-Hexanone	<2.5	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U
108-88-3	Toluene	<1.0	U
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
100-41-4	Ethylbenzene	<1.0	U
108-38-3/106-42-3	m,p-Xylenes	<2.0	U
95-47-6	o-Xylene	<1.0	U
75-25-2	Bromoform	<1.0	U
100-42-5	Styrene	<1.0	U
98-82-8	Isopropylbenzene	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
1330-20-7	Xylenes (Total)	<2.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47	95	85 - 115	
Toluene-d8	50.0	46	92	85 - 120	
4-Bromofluorobenzene	50.0	48	96	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	1393238	11.5	1787640	11.48	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F30006-BLK1	File ID:	3G1005.D
Prepared:	07/01/13 12:13	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	07/01/13 14:19	Instrument:	OVGCMS3		
Batch:	3F30006	Sequence:	AA24769	Calibration:	1306033

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	2288913	12.08	2856125	12.06	
Chlorobenzene-d5	1897751	14.77	2602095	14.75	
1,4-Dichlorobenzene-d4	761651	17.16	1180728	17.14	

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F27024	Laboratory ID:	3F27024-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	22	109	35 - 135
Chloromethane	20.0	20	100	50 - 130
Vinyl chloride	20.0	19	94	60 - 125
Bromomethane	20.0	20	98	30 - 160
Chloroethane	20.0	20	101	40 - 155
Trichlorofluoromethane	20.0	20	98	25 - 185
Freon 113	20.0	21	104	20 - 189
Acetone	50.0	57	113	20 - 160
1,1-Dichloroethene	20.0	21	107	65 - 135
Carbon disulfide	20.0	20	98	45 - 160
Methylene Chloride	20.0	19	94	55 - 140
Methyl-tert-Butyl Ether	20.0	19	97	58 - 123
trans-1,2-Dichloroethene	20.0	18	92	65 - 135
cis-1,2-Dichloroethene	20.0	19	93	65 - 125
1,1-Dichloroethane	20.0	19	96	75 - 125
2-Butanone	50.0	54	108	30 - 160
Chloroform	20.0	20	101	70 - 125
Bromochloromethane	20.0	19	95	70 - 125
1,1,1-Trichloroethane	20.0	20	98	70 - 135
Methyl acetate	20.0	19	96	70 - 130
Cyclohexane	20.0	19	95	70 - 130
Methyl cyclohexane	20.0	18	89	70 - 130
Carbon Tetrachloride	20.0	19	97	65 - 135
1,2-Dichloroethane	20.0	20	99	70 - 135
Benzene	20.0	20	101	75 - 125
Trichloroethene	20.0	21	103	75 - 125
1,2-Dichloropropane	20.0	20	98	70 - 120
1,4-Dioxane	20.0	21	103	44 - 134
Bromodichloromethane	20.0	21	105	70 - 130
4-Methyl-2-pentanone	50.0	54	108	45 - 145

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F27024	Laboratory ID:	3F27024-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
2-Hexanone	50.0	54	108	45 - 145
cis-1,3-Dichloropropene	20.0	19	95	70 - 125
Toluene	20.0	19	95	70 - 125
trans-1,3-Dichloropropene	20.0	20	102	65 - 125
1,1,2-Trichloroethane	20.0	19	95	60 - 125
Tetrachloroethene	20.0	24	118	65 - 140
Dibromochloromethane	20.0	19	96	65 - 130
1,2-Dibromoethane	20.0	18	92	70 - 125
Chlorobenzene	20.0	17	87	75 - 125
Ethylbenzene	20.0	19	93	75 - 125
m,p-Xylenes	40.0	37	93	80 - 125
o-Xylene	20.0	18	88	75 - 125
Bromoform	20.0	19	94	55 - 135
Styrene	20.0	19	96	75 - 125
Isopropylbenzene	20.0	18	91	75 - 130
1,1,2,2-Tetrachloroethane	20.0	18	92	55 - 130
1,2,4-Trichlorobenzene	20.0	19	96	65 - 130
1,3-Dichlorobenzene	20.0	20	98	70 - 125
1,4-Dichlorobenzene	20.0	20	99	70 - 125
1,2-Dichlorobenzene	20.0	19	95	75 - 120
1,2-Dibromo-3-chloropropane	20.0	21	105	40 - 135
1,2,3-Trichlorobenzene	20.0	19	96	60 - 135

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	19	96	13	30	35 - 135
Chloromethane	20.0	18	90	10	30	50 - 130
Vinyl chloride	20.0	17	84	10	30	60 - 125
Bromomethane	20.0	19	95	2	30	30 - 160
Chloroethane	20.0	20	99	2	30	40 - 155

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F27024	Laboratory ID:	3F27024-BSD1
Preparation:	EPA 5030B_MS	Initial/Final:	5 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichlorofluoromethane	20.0	19	97	2	30	25 - 185
Freon 113	20.0	18	88	16	30	20 - 189
Acetone	50.0	48	95	18	30	20 - 160
1,1-Dichloroethene	20.0	19	93	14	30	65 - 135
Carbon disulfide	20.0	17	85	15	30	45 - 160
Methylene Chloride	20.0	17	85	10	30	55 - 140
Methyl-tert-Butyl Ether	20.0	18	90	8	30	58 - 123
trans-1,2-Dichloroethene	20.0	17	83	11	30	65 - 135
cis-1,2-Dichloroethene	20.0	17	86	8	30	65 - 125
1,1-Dichloroethane	20.0	18	88	9	30	75 - 125
2-Butanone	50.0	46	92	16	30	30 - 160
Chloroform	20.0	18	91	11	30	70 - 125
Bromochloromethane	20.0	18	89	7	30	70 - 125
1,1,1-Trichloroethane	20.0	17	85	14	30	70 - 135
Methyl acetate	20.0	21	104	8	30	70 - 130
Cyclohexane	20.0	15	77	21	30	70 - 130
Methyl cyclohexane	20.0	15	76	15	30	70 - 130
Carbon Tetrachloride	20.0	17	86	12	30	65 - 135
1,2-Dichloroethane	20.0	19	93	7	30	70 - 135
Benzene	20.0	18	89	12	30	75 - 125
Trichloroethene	20.0	18	88	16	30	75 - 125
1,2-Dichloropropane	20.0	17	87	13	30	70 - 120
1,4-Dioxane	20.0	24	121	16	30	44 - 134
Bromodichloromethane	20.0	19	96	9	30	70 - 130
4-Methyl-2-pentanone	50.0	49	99	8	30	45 - 145
2-Hexanone	50.0	48	96	12	30	45 - 145
cis-1,3-Dichloropropene	20.0	18	88	9	30	70 - 125
Toluene	20.0	19	94	0.1	30	70 - 125
trans-1,3-Dichloropropene	20.0	22	108	6	30	65 - 125
1,1,2-Trichloroethane	20.0	20	100	5	30	60 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F27024	Laboratory ID:	3F27024-BSD1
Preparation:	EPA 5030B_MS	Initial/Final:	5 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Tetrachloroethene	20.0	19	96	20	30	65 - 140
Dibromochloromethane	20.0	21	103	7	30	65 - 130
1,2-Dibromoethane	20.0	19	96	4	30	70 - 125
Chlorobenzene	20.0	18	92	5	30	75 - 125
Ethylbenzene	20.0	18	91	1	30	75 - 125
m,p-Xylenes	40.0	37	93	0.6	30	80 - 125
o-Xylene	20.0	18	91	3	30	75 - 125
Bromoform	20.0	19	96	2	30	55 - 135
Styrene	20.0	19	97	0.6	30	75 - 125
Isopropylbenzene	20.0	18	90	1	30	75 - 130
1,1,2,2-Tetrachloroethane	20.0	19	93	2	30	55 - 130
1,2,4-Trichlorobenzene	20.0	17	86	10	30	65 - 130
1,3-Dichlorobenzene	20.0	17	87	12	30	70 - 125
1,4-Dichlorobenzene	20.0	18	89	10	30	70 - 125
1,2-Dichlorobenzene	20.0	18	88	8	30	75 - 120
1,2-Dibromo-3-chloropropane	20.0	18	92	13	30	40 - 135
1,2,3-Trichlorobenzene	20.0	18	88	9	30	60 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F28011	Laboratory ID:	3F28011-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	16	82	30 - 155
Chloromethane	20.0	14	69	40 - 125
Vinyl chloride	20.0	13	65	50 - 145
Bromomethane	20.0	11	56	30 - 145
Chloroethane	20.0	17	86	60 - 135
Trichlorofluoromethane	20.0	16	79	60 - 145
Freon 113	20.0	20	101	47 - 173
Acetone	50.0	29	58	40 - 140
1,1-Dichloroethene	20.0	23	115	70 - 130
Carbon disulfide	20.0	18	88	35 - 160
Methylene Chloride	20.0	17	87	55 - 140
Methyl-tert-Butyl Ether	20.0	21	106	65 - 125
trans-1,2-Dichloroethene	20.0	19	93	60 - 140
cis-1,2-Dichloroethene	20.0	17	87	70 - 125
1,1-Dichloroethane	20.0	18	92	70 - 135
2-Butanone	50.0	32	64	30 - 150
Chloroform	20.0	19	94	65 - 135
Bromochloromethane	20.0	17	84	65 - 130
1,1,1-Trichloroethane	20.0	20	98	65 - 130
Methyl acetate	20.0	22	112	24 - 129
Cyclohexane	20.0	17	83	45 - 147
Methyl cyclohexane	20.0	19	97	55 - 121
Carbon Tetrachloride	20.0	22	112	65 - 140
1,2-Dichloroethane	20.0	20	102	70 - 130
Benzene	20.0	23	114	80 - 120
Trichloroethene	20.0	21	103	70 - 125
1,2-Dichloropropane	20.0	19	96	75 - 125
1,4-Dioxane	20.0	25	124	10 - 200
Bromodichloromethane	20.0	20	101	75 - 120
4-Methyl-2-pentanone	50.0	41	82	60 - 135

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F28011	Laboratory ID:	3F28011-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
2-Hexanone	50.0	32	65	55 - 130
cis-1,3-Dichloropropene	20.0	19	95	70 - 130
Toluene	20.0	22	112	75 - 120
trans-1,3-Dichloropropene	20.0	23	113	55 - 140
1,1,2-Trichloroethane	20.0	21	103	75 - 125
Tetrachloroethene	20.0	26	128	45 - 150
Dibromochloromethane	20.0	20	99	60 - 135
1,2-Dibromoethane	20.0	20	100	80 - 120
Chlorobenzene	20.0	21	104	80 - 120
Ethylbenzene	20.0	21	106	75 - 125
m,p-Xylenes	40.0	44	110	75 - 130
o-Xylene	20.0	20	99	80 - 120
Bromoform	20.0	21	106	70 - 130
Styrene	20.0	20	102	65 - 135
Isopropylbenzene	20.0	21	103	75 - 125
1,1,2,2-Tetrachloroethane	20.0	20	98	65 - 130
1,2,4-Trichlorobenzene	20.0	21	105	65 - 135
1,3-Dichlorobenzene	20.0	19	95	75 - 125
1,4-Dichlorobenzene	20.0	20	98	75 - 125
1,2-Dichlorobenzene	20.0	19	95	70 - 120
1,2-Dibromo-3-chloropropane	20.0	20	102	50 - 130
1,2,3-Trichlorobenzene	20.0	22	109	55 - 140

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	18	91	10	30	30 - 155
Chloromethane	20.0	15	77	10	30	40 - 125
Vinyl chloride	20.0	14	71	9	30	50 - 145
Bromomethane	20.0	14	70	22	30	30 - 145
Chloroethane	20.0	19	95	10	30	60 - 135

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F28011	Laboratory ID:	3F28011-BSD1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichlorofluoromethane	20.0	17	85	7	30	60 - 145
Freon 113	20.0	22	111	10	30	47 - 173
Acetone	50.0	33	65	12	30	40 - 140
1,1-Dichloroethene	20.0	23	114	1	30	70 - 130
Carbon disulfide	20.0	19	95	8	30	35 - 160
Methylene Chloride	20.0	22	111	24	30	55 - 140
Methyl-tert-Butyl Ether	20.0	23	116	9	30	65 - 125
trans-1,2-Dichloroethene	20.0	23	113	19	30	60 - 140
cis-1,2-Dichloroethene	20.0	19	95	8	30	70 - 125
1,1-Dichloroethane	20.0	24	119	25	30	70 - 135
2-Butanone	50.0	34	67	5	30	30 - 150
Chloroform	20.0	20	100	6	30	65 - 135
Bromochloromethane	20.0	17	87	4	30	65 - 130
1,1,1-Trichloroethane	20.0	26	129	28	30	65 - 130
Methyl acetate	20.0	23	115	3	30	24 - 129
Cyclohexane	20.0	19	95	14	30	45 - 147
Methyl cyclohexane	20.0	23	115	17	30	55 - 121
Carbon Tetrachloride	20.0	24	120	7	30	65 - 140
1,2-Dichloroethane	20.0	22	111	8	30	70 - 130
Benzene	20.0	22	108	5	30	80 - 120
Trichloroethene	20.0	21	107	4	30	70 - 125
1,2-Dichloropropane	20.0	22	112	15	30	75 - 125
1,4-Dioxane	20.0	24	118	5	30	10 - 200
Bromodichloromethane	20.0	22	112	11	30	75 - 120
4-Methyl-2-pentanone	50.0	41	83	0.9	30	60 - 135
2-Hexanone	50.0	35	70	8	30	55 - 130
cis-1,3-Dichloropropene	20.0	26	129	30	30	70 - 130
Toluene	20.0	23	113	0.4	30	75 - 120
trans-1,3-Dichloropropene	20.0	23	117	3	30	55 - 140
1,1,2-Trichloroethane	20.0	22	109	6	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F28011	Laboratory ID:	3F28011-BSD1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Tetrachloroethene	20.0	28	138	7	30	45 - 150
Dibromochloromethane	20.0	21	107	8	30	60 - 135
1,2-Dibromoethane	20.0	23	113	13	30	80 - 120
Chlorobenzene	20.0	23	114	10	30	80 - 120
Ethylbenzene	20.0	20	102	3	30	75 - 125
m,p-Xylenes	40.0	47	118	8	30	75 - 130
o-Xylene	20.0	22	110	10	30	80 - 120
Bromoform	20.0	24	121	14	30	70 - 130
Styrene	20.0	27	135	28	30	65 - 135
Isopropylbenzene	20.0	22	110	7	30	75 - 125
1,1,2,2-Tetrachloroethane	20.0	22	109	10	30	65 - 130
1,2,4-Trichlorobenzene	20.0	26	129	21	30	65 - 135
1,3-Dichlorobenzene	20.0	20	101	6	30	75 - 125
1,4-Dichlorobenzene	20.0	21	107	9	30	75 - 125
1,2-Dichlorobenzene	20.0	20	102	7	30	70 - 120
1,2-Dibromo-3-chloropropane	20.0	22	108	6	30	50 - 130
1,2,3-Trichlorobenzene	20.0	27	136	21	30	55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F30006	Laboratory ID:	3F30006-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	25	126	30 - 155
Chloromethane	20.0	19	94	40 - 125
Vinyl chloride	20.0	15	77	50 - 145
Bromomethane	20.0	17	84	30 - 145
Chloroethane	20.0	15	76	60 - 135
Trichlorofluoromethane	20.0	21	105	60 - 145
Freon 113	20.0	15	75	47 - 173
Acetone	50.0	44	88	40 - 140
1,1-Dichloroethene	20.0	16	78	70 - 130
Carbon disulfide	20.0	14	71	35 - 160
Methylene Chloride	20.0	15	74	55 - 140
Methyl-tert-Butyl Ether	20.0	18	91	65 - 125
trans-1,2-Dichloroethene	20.0	17	83	60 - 140
cis-1,2-Dichloroethene	20.0	16	78	70 - 125
1,1-Dichloroethane	20.0	17	85	70 - 135
2-Butanone	50.0	37	74	30 - 150
Chloroform	20.0	19	94	65 - 135
Bromochloromethane	20.0	15	73	65 - 130
1,1,1-Trichloroethane	20.0	22	110	65 - 130
Methyl acetate	20.0	20	98	24 - 129
Cyclohexane	20.0	16	80	45 - 147
Methyl cyclohexane	20.0	16	82	55 - 121
Carbon Tetrachloride	20.0	21	107	65 - 140
1,2-Dichloroethane	20.0	20	101	70 - 130
Benzene	20.0	16	81	80 - 120
Trichloroethene	20.0	16	78	70 - 125
1,2-Dichloropropane	20.0	15	76	75 - 125
1,4-Dioxane	20.0	29	145	10 - 200
Bromodichloromethane	20.0	20	98	75 - 120
4-Methyl-2-pentanone	50.0	36	72	60 - 135

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F30006	Laboratory ID:	3F30006-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
2-Hexanone	50.0	35	71	55 - 130
cis-1,3-Dichloropropene	20.0	16	80	70 - 130
Toluene	20.0	17	84	75 - 120
trans-1,3-Dichloropropene	20.0	20	99	55 - 140
1,1,2-Trichloroethane	20.0	15	76	75 - 125
Tetrachloroethene	20.0	17	83	45 - 150
Dibromochloromethane	20.0	18	88	60 - 135
1,2-Dibromoethane	20.0	17	86	80 - 120
Chlorobenzene	20.0	17	83	80 - 120
Ethylbenzene	20.0	18	91	75 - 125
m,p-Xylenes	40.0	34	85	75 - 130
o-Xylene	20.0	17	87	80 - 120
Bromoform	20.0	15	74	70 - 130
Styrene	20.0	17	85	65 - 135
Isopropylbenzene	20.0	18	91	75 - 125
1,1,2,2-Tetrachloroethane	20.0	14	68	65 - 130
1,2,4-Trichlorobenzene	20.0	16	78	65 - 135
1,3-Dichlorobenzene	20.0	15	77	75 - 125
1,4-Dichlorobenzene	20.0	16	81	75 - 125
1,2-Dichlorobenzene	20.0	15	75	70 - 120
1,2-Dibromo-3-chloropropane	20.0	20	98	50 - 130
1,2,3-Trichlorobenzene	20.0	17	83	55 - 140

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	26	130	3	30	30 - 155
Chloromethane	20.0	20	100	6	30	40 - 125
Vinyl chloride	20.0	16	80	4	30	50 - 145
Bromomethane	20.0	16	78	7	30	30 - 145
Chloroethane	20.0	15	76	0.5	30	60 - 135

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F30006	Laboratory ID:	3F30006-BSD1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichlorofluoromethane	20.0	21	105	0.7	30	60 - 145
Freon 113	20.0	17	83	10	30	47 - 173
Acetone	50.0	42	84	5	30	40 - 140
1,1-Dichloroethene	20.0	16	80	2	30	70 - 130
Carbon disulfide	20.0	15	74	5	30	35 - 160
Methylene Chloride	20.0	16	78	5	30	55 - 140
Methyl-tert-Butyl Ether	20.0	20	102	11	30	65 - 125
trans-1,2-Dichloroethene	20.0	17	86	4	30	60 - 140
cis-1,2-Dichloroethene	20.0	16	82	5	30	70 - 125
1,1-Dichloroethane	20.0	18	92	7	30	70 - 135
2-Butanone	50.0	44	88	18	30	30 - 150
Chloroform	20.0	19	96	1	30	65 - 135
Bromochloromethane	20.0	16	80	9	30	65 - 130
1,1,1-Trichloroethane	20.0	23	113	3	30	65 - 130
Methyl acetate	20.0	20	100	2	30	24 - 129
Cyclohexane	20.0	17	84	4	30	45 - 147
Methyl cyclohexane	20.0	16	82	0.2	30	55 - 121
Carbon Tetrachloride	20.0	23	114	6	30	65 - 140
1,2-Dichloroethane	20.0	23	113	11	30	70 - 130
Benzene	20.0	17	84	4	30	80 - 120
Trichloroethene	20.0	16	81	4	30	70 - 125
1,2-Dichloropropane	20.0	15	76	0.3	30	75 - 125
1,4-Dioxane	20.0	28	138	5	30	10 - 200
Bromodichloromethane	20.0	20	100	3	30	75 - 120
4-Methyl-2-pentanone	50.0	39	79	9	30	60 - 135
2-Hexanone	50.0	46	91	25	30	55 - 130
cis-1,3-Dichloropropene	20.0	18	92	13	30	70 - 130
Toluene	20.0	18	91	7	30	75 - 120
trans-1,3-Dichloropropene	20.0	22	109	10	30	55 - 140
1,1,2-Trichloroethane	20.0	16	80	6	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F30006	Laboratory ID:	3F30006-BSD1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Tetrachloroethene	20.0	18	88	5	30	45 - 150
Dibromochloromethane	20.0	20	100	13	30	60 - 135
1,2-Dibromoethane	20.0	19	94	9	30	80 - 120
Chlorobenzene	20.0	17	86	3	30	80 - 120
Ethylbenzene	20.0	20	100	9	30	75 - 125
m,p-Xylenes	40.0	36	90	6	30	75 - 130
o-Xylene	20.0	20	99	13	30	80 - 120
Bromoform	20.0	17	84	12	30	70 - 130
Styrene	20.0	19	95	11	30	65 - 135
Isopropylbenzene	20.0	20	98	8	30	75 - 125
1,1,2,2-Tetrachloroethane	20.0	15	76	12	30	65 - 130
1,2,4-Trichlorobenzene	20.0	18	88	12	30	65 - 135
1,3-Dichlorobenzene	20.0	16	80	4	30	75 - 125
1,4-Dichlorobenzene	20.0	18	88	8	30	75 - 125
1,2-Dichlorobenzene	20.0	17	84	11	30	70 - 120
1,2-Dibromo-3-chloropropane	20.0	20	102	4	30	50 - 130
1,2,3-Trichlorobenzene	20.0	18	90	8	30	55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA22782	Instrument:	OVGCMS2
Matrix:	Water	Calibration:	1301050

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA22782-ICB1)			Lab File ID: 2AJ002.D		Analyzed: 01/15/13 13:54			
Dibromofluoromethane			85 - 115	10.9	10.9	0.0000	+/-0.5	
Toluene-d8			85 - 120	13.17	13.166	0.0040	+/-0.5	
4-Bromofluorobenzene			75 - 120	15.68	15.68	0.0000	+/-0.5	
Secondary Cal Check (AA22782-SCV1)			Lab File ID: 2AJ012.D		Analyzed: 01/15/13 19:14			
Dibromofluoromethane	50.0	81	80 - 120	10.9	10.9	0.0000	+/-0.5	
Toluene-d8	50.0	85	80 - 120	13.17	13.166	0.0040	+/-0.5	
4-Bromofluorobenzene	50.0	84	80 - 120	15.68	15.68	0.0000	+/-0.5	
Secondary Cal Check (AA22782-SCV2)			Lab File ID: 2AJ013.D		Analyzed: 01/15/13 19:45			
Dibromofluoromethane	50.0	81	80 - 120	10.91	10.9	0.0100	+/-0.5	
Toluene-d8	50.0	89	80 - 120	13.16	13.166	-0.0060	+/-0.5	
4-Bromofluorobenzene	50.0	87	80 - 120	15.67	15.68	-0.0100	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24402	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA24402-ICB1)			Lab File ID: 2F3002.D		Analyzed: 06/03/13 13:03			
Dibromofluoromethane			74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8			85 - 115	13.17	13.166	0.0040	+/-1.0	
4-Bromofluorobenzene			85 - 120	15.68	15.676	0.0040	+/-1.0	
Secondary Cal Check (AA24402-SCV2)			Lab File ID: 2F3014.D		Analyzed: 06/03/13 19:46			
Dibromofluoromethane	50.0	87	80 - 120	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.0	93	80 - 120	13.17	13.166	0.0040	+/-1.0	
4-Bromofluorobenzene	50.0	94	80 - 120	15.67	15.676	-0.0060	+/-1.0	
Calibration Check (AA24402-CCV1)			Lab File ID: 2F4002.D		Analyzed: 06/04/13 13:41			
Dibromofluoromethane	50.0	87	80 - 120	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.0	89	80 - 120	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.0	89	80 - 120	15.68	15.676	0.0040	+/-1.0	
Secondary Cal Check (AA24402-SCV1)			Lab File ID: 2F4003.D		Analyzed: 06/04/13 14:17			
Dibromofluoromethane	50.0	82	80 - 120	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.0	85	80 - 120	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.0	87	80 - 120	15.67	15.676	-0.0060	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24527	Instrument:	OVGCMS3
Matrix:	Water	Calibration:	1306033

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA24527-ICB1)			Lab File ID: 3FH002.D		Analyzed: 06/13/13 10:06			
Dibromofluoromethane			85 - 115	11.08	11.082	-0.0020	+/-0.5	
Toluene-d8			85 - 120	13.34	13.342	-0.0020	+/-0.5	
4-Bromofluorobenzene			75 - 120	15.89	15.892	-0.0020	+/-0.5	
Secondary Cal Check (AA24527-SCV1)			Lab File ID: 3FH014.D		Analyzed: 06/13/13 16:39			
Dibromofluoromethane	50.0	83	80 - 120	11.09	11.082	0.0080	+/-0.5	
Toluene-d8	50.0	87	80 - 120	13.35	13.342	0.0080	+/-0.5	
4-Bromofluorobenzene	50.0	90	80 - 120	15.9	15.892	0.0080	+/-0.5	
Secondary Cal Check (AA24527-SCV2)			Lab File ID: 3FH015.D		Analyzed: 06/13/13 17:09			
Dibromofluoromethane	50.0	81	80 - 120	11.09	11.082	0.0080	+/-0.5	
Toluene-d8	50.0	87	80 - 120	13.34	13.342	-0.0020	+/-0.5	
4-Bromofluorobenzene	50.0	83	80 - 120	15.9	15.892	0.0080	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24731	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24731-CCV1)			Lab File ID: 2FV002.D		Analyzed: 06/27/13 13:51			
Dibromofluoromethane	50.0	103	80 - 120	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.0	108	80 - 120	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.0	108	80 - 120	15.67	15.676	-0.0060	+/-1.0	
LCS (3F27024-BS1)			Lab File ID: 2FV003.D		Analyzed: 06/27/13 14:25			
Dibromofluoromethane	50.0	102	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.0	104	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.0	93	85 - 120	15.67	15.676	-0.0060	+/-1.0	
LCS Dup (3F27024-BSD1)			Lab File ID: 2FV004.D		Analyzed: 06/27/13 14:59			
Dibromofluoromethane	50.0	101	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.0	103	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.0	105	85 - 120	15.67	15.676	-0.0060	+/-1.0	
Blank (3F27024-BLK1)			Lab File ID: 2FV006.D		Analyzed: 06/27/13 16:11			
Dibromofluoromethane	50.0	109	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.0	109	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.0	110	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 2FV007.D		Analyzed: 06/27/13 16:47			
Dibromofluoromethane	43.5	104	74 - 133	10.91	10.91	0.0000	+/-1.0	
Toluene-d8	43.5	101	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	43.5	102	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 2FV008.D		Analyzed: 06/27/13 17:23			
Dibromofluoromethane	50.6	105	74 - 133	10.91	10.91	0.0000	+/-1.0	
Toluene-d8	50.6	105	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.6	109	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 2FV009.D		Analyzed: 06/27/13 17:58			
Dibromofluoromethane	50.8	104	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.8	103	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.8	103	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 2FV010.D		Analyzed: 06/27/13 18:33			
Dibromofluoromethane	59.2	98	74 - 133	10.91	10.91	0.0000	+/-1.0	
Toluene-d8	59.2	101	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	59.2	101	85 - 120	15.67	15.676	-0.0060	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24731	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 2FV011.D		Analyzed: 06/27/13 19:08			
Dibromofluoromethane	54.5	103	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	54.5	103	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	54.5	102	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 2FV012.D		Analyzed: 06/27/13 19:42			
Dibromofluoromethane	57.8	98	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	57.8	101	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	57.8	101	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 2FV013.D		Analyzed: 06/27/13 20:17			
Dibromofluoromethane	55.1	105	74 - 133	10.91	10.91	0.0000	+/-1.0	
Toluene-d8	55.1	104	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	55.1	99	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 2FV014.D		Analyzed: 06/27/13 20:53			
Dibromofluoromethane	49.2	99	74 - 133	10.91	10.91	0.0000	+/-1.0	
Toluene-d8	49.2	98	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	49.2	92	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 2FV015.D		Analyzed: 06/27/13 21:28			
Dibromofluoromethane	60.0	98	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	60.0	96	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	60.0	87	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 2FV016.D		Analyzed: 06/27/13 22:02			
Dibromofluoromethane	50.3	102	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	50.3	103	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	50.3	105	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 2FV017.D		Analyzed: 06/27/13 22:37			
Dibromofluoromethane	58.7	100	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	58.7	98	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	58.7	96	85 - 120	15.67	15.676	-0.0060	+/-1.0	
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 2FV018.D		Analyzed: 06/27/13 23:11			
Dibromofluoromethane	48.6	109	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	48.6	105	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	48.6	101	85 - 120	15.67	15.676	-0.0060	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24731	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 2FV019.D		Analyzed: 06/27/13 23:44			
Dibromofluoromethane	42.4	104	74 - 133	10.9	10.91	-0.0100	+/-1.0	
Toluene-d8	42.4	104	85 - 115	13.17	13.166	0.0040	+/-1.0	
4-Bromofluorobenzene	42.4	99	85 - 120	15.68	15.676	0.0040	+/-1.0	
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 2FV020.D		Analyzed: 06/28/13 00:17			
Dibromofluoromethane	62.3	90	74 - 133	10.91	10.91	0.0000	+/-1.0	
Toluene-d8	62.3	92	85 - 115	13.16	13.166	-0.0060	+/-1.0	
4-Bromofluorobenzene	62.3	87	85 - 120	15.67	15.676	-0.0060	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24752	Instrument:	OVGCMS2
Matrix:	Water	Calibration:	1301050

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24752-CCV1)			Lab File ID: 2FW002.D		Analyzed: 06/28/13 15:41			
Dibromofluoromethane	50.0	83	80 - 120	10.9	10.9	0.0000	+/-0.5	
Toluene-d8	50.0	106	80 - 120	13.16	13.166	-0.0060	+/-0.5	
4-Bromofluorobenzene	50.0	105	80 - 120	15.67	15.68	-0.0100	+/-0.5	
LCS (3F28011-BS1)			Lab File ID: 2FW003.D		Analyzed: 06/28/13 16:15			
Dibromofluoromethane	50.0	86	85 - 115	10.91	10.9	0.0100	+/-0.5	
Toluene-d8	50.0	94	85 - 120	13.17	13.166	0.0040	+/-0.5	
4-Bromofluorobenzene	50.0	94	75 - 120	15.68	15.68	0.0000	+/-0.5	
LCS Dup (3F28011-BSD1)			Lab File ID: 2FW004.D		Analyzed: 06/28/13 16:49			
Dibromofluoromethane	50.0	85	85 - 115	10.91	10.9	0.0100	+/-0.5	
Toluene-d8	50.0	106	85 - 120	13.17	13.166	0.0040	+/-0.5	
4-Bromofluorobenzene	50.0	107	75 - 120	15.68	15.68	0.0000	+/-0.5	
Blank (3F28011-BLK1)			Lab File ID: 2FW005.D		Analyzed: 06/28/13 17:22			
Dibromofluoromethane	50.0	87	85 - 115	10.91	10.9	0.0100	+/-0.5	
Toluene-d8	50.0	103	85 - 120	13.17	13.166	0.0040	+/-0.5	
4-Bromofluorobenzene	50.0	103	75 - 120	15.68	15.68	0.0000	+/-0.5	
TR-TB01-061913 (A303499-01)			Lab File ID: 2FW014.D		Analyzed: 06/28/13 22:14			
Dibromofluoromethane	50.0	66	85 - 115	10.91	10.9	0.0100	+/-0.5	*
Toluene-d8	50.0	78	85 - 120	13.16	13.166	-0.0060	+/-0.5	*
4-Bromofluorobenzene	50.0	80	75 - 120	15.67	15.68	-0.0100	+/-0.5	
TR-2ND-SB07-GW-0613 (A303499-08)			Lab File ID: 2FW015.D		Analyzed: 06/28/13 22:46			
Dibromofluoromethane	50.0	64	85 - 115	10.91	10.9	0.0100	+/-0.5	*
Toluene-d8	50.0	74	85 - 120	13.17	13.166	0.0040	+/-0.5	*
4-Bromofluorobenzene	50.0	78	75 - 120	15.68	15.68	0.0000	+/-0.5	
TR-2ND-SB06-GW-0613 (A303499-13)			Lab File ID: 2FW016.D		Analyzed: 06/28/13 23:18			
Dibromofluoromethane	50.0	64	85 - 115	10.91	10.9	0.0100	+/-0.5	*
Toluene-d8	50.0	75	85 - 120	13.17	13.166	0.0040	+/-0.5	*
4-Bromofluorobenzene	50.0	74	75 - 120	15.68	15.68	0.0000	+/-0.5	*
TR-2ND-SB04-GW-0613 (A303499-16)			Lab File ID: 2FW017.D		Analyzed: 06/28/13 23:50			
Dibromofluoromethane	50.0	60	85 - 115	10.91	10.9	0.0100	+/-0.5	*
Toluene-d8	50.0	73	85 - 120	13.17	13.166	0.0040	+/-0.5	*
4-Bromofluorobenzene	50.0	74	75 - 120	15.67	15.68	-0.0100	+/-0.5	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24769	Instrument:	OVGCMS3
Matrix:	Water	Calibration:	1306033

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24769-CCV1)			Lab File ID: 3G1002.D		Analyzed: 07/01/13 12:42			
Dibromofluoromethane	50.0	91	80 - 120	11.09	11.082	0.0080	+/-0.5	
Toluene-d8	50.0	96	80 - 120	13.35	13.342	0.0080	+/-0.5	
4-Bromofluorobenzene	50.0	102	80 - 120	15.91	15.892	0.0180	+/-0.5	
LCS (3F30006-BS1)			Lab File ID: 3G1003.D		Analyzed: 07/01/13 13:19			
Dibromofluoromethane	50.0	93	85 - 115	11.09	11.082	0.0080	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.35	13.342	0.0080	+/-0.5	
4-Bromofluorobenzene	50.0	100	75 - 120	15.91	15.892	0.0180	+/-0.5	
LCS Dup (3F30006-BSD1)			Lab File ID: 3G1004.D		Analyzed: 07/01/13 13:49			
Dibromofluoromethane	50.0	88	85 - 115	11.1	11.082	0.0180	+/-0.5	
Toluene-d8	50.0	94	85 - 120	13.35	13.342	0.0080	+/-0.5	
4-Bromofluorobenzene	50.0	99	75 - 120	15.91	15.892	0.0180	+/-0.5	
Blank (3F30006-BLK1)			Lab File ID: 3G1005.D		Analyzed: 07/01/13 14:19			
Dibromofluoromethane	50.0	95	85 - 115	11.1	11.082	0.0180	+/-0.5	
Toluene-d8	50.0	92	85 - 120	13.35	13.342	0.0080	+/-0.5	
4-Bromofluorobenzene	50.0	96	75 - 120	15.91	15.892	0.0180	+/-0.5	
TR-TB01-061913 (A303499-01RE1)			Lab File ID: 3G1011.D		Analyzed: 07/01/13 17:19			
Dibromofluoromethane	50.0	103	85 - 115	11.1	11.082	0.0180	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.36	13.342	0.0180	+/-0.5	
4-Bromofluorobenzene	50.0	103	75 - 120	15.91	15.892	0.0180	+/-0.5	
TR-2ND-SB07-GW-0613 (A303499-08RE1)			Lab File ID: 3G1012.D		Analyzed: 07/01/13 17:49			
Dibromofluoromethane	50.0	101	85 - 115	11.1	11.082	0.0180	+/-0.5	
Toluene-d8	50.0	92	85 - 120	13.36	13.342	0.0180	+/-0.5	
4-Bromofluorobenzene	50.0	101	75 - 120	15.91	15.892	0.0180	+/-0.5	
TR-2ND-SB06-GW-0613 (A303499-13RE1)			Lab File ID: 3G1013.D		Analyzed: 07/01/13 18:19			
Dibromofluoromethane	50.0	104	85 - 115	11.09	11.082	0.0080	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.35	13.342	0.0080	+/-0.5	
4-Bromofluorobenzene	50.0	107	75 - 120	15.91	15.892	0.0180	+/-0.5	
TR-2ND-SB04-GW-0613 (A303499-16RE1)			Lab File ID: 3G1014.D		Analyzed: 07/01/13 18:49			
Dibromofluoromethane	50.0	102	85 - 115	11.1	11.082	0.0180	+/-0.5	
Toluene-d8	50.0	93	85 - 120	13.36	13.342	0.0180	+/-0.5	
4-Bromofluorobenzene	50.0	104	75 - 120	15.91	15.892	0.0180	+/-0.5	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA22782	Instrument:	OVGCMS2
Matrix:	Water	Calibration:	1301050

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA22782-ICB1)			Lab File ID: 2AJ002.D			Analyzed: 01/15/13 13:54			
Pentafluorobenzene	1193112	11.31	1226866	11.31	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1996511	11.89	1885250	11.89	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1681637	14.56	1630693	14.56	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	757424	16.89	801552	16.89	94	50 - 200	0.0000	+/-0.50	
Cal Standard (AA22782-CAL1)			Lab File ID: 2AJ003.D			Analyzed: 01/15/13 14:34			
Pentafluorobenzene	1222602	11.31	1226866	11.31	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2006218	11.88	1885250	11.89	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1672425	14.56	1630693	14.56	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	759239	16.9	801552	16.89	95	50 - 200	0.0100	+/-0.50	
Cal Standard (AA22782-CAL2)			Lab File ID: 2AJ004.D			Analyzed: 01/15/13 15:05			
Pentafluorobenzene	1244232	11.31	1226866	11.31	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2012487	11.89	1885250	11.89	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1752784	14.56	1630693	14.56	107	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	802598	16.89	801552	16.89	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA22782-CAL3)			Lab File ID: 2AJ005.D			Analyzed: 01/15/13 15:37			
Pentafluorobenzene	1225157	11.31	1226866	11.31	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1977061	11.89	1885250	11.89	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1710055	14.56	1630693	14.56	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	819339	16.89	801552	16.89	102	50 - 200	0.0000	+/-0.50	
Cal Standard (AA22782-CAL4)			Lab File ID: 2AJ006.D			Analyzed: 01/15/13 16:08			
Pentafluorobenzene	1248446	11.31	1226866	11.31	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1974011	11.88	1885250	11.89	105	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1726256	14.56	1630693	14.56	106	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	809505	16.89	801552	16.89	101	50 - 200	0.0000	+/-0.50	
Cal Standard (AA22782-CAL5)			Lab File ID: 2AJ007.D			Analyzed: 01/15/13 16:39			
Pentafluorobenzene	1226866	11.31	1226866	11.31	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1885250	11.89	1885250	11.89	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1630693	14.56	1630693	14.56	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	801552	16.89	801552	16.89	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA22782-CAL6)			Lab File ID: 2AJ008.D			Analyzed: 01/15/13 17:10			
Pentafluorobenzene	1220239	11.31	1226866	11.31	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1737985	11.88	1885250	11.89	92	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1550528	14.56	1630693	14.56	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	766450	16.89	801552	16.89	96	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA22782	Instrument:	OVGCMS2
Matrix:	Water	Calibration:	1301050

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA22782-CAL7)			Lab File ID: 2AJ009.D			Analyzed: 01/15/13 17:41			
Pentafluorobenzene	1209362	11.32	1226866	11.31	99	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1973396	11.88	1885250	11.89	105	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1762095	14.56	1630693	14.56	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	833163	16.9	801552	16.89	104	50 - 200	0.0100	+/-0.50	
Secondary Cal Check (AA22782-SCV1)			Lab File ID: 2AJ012.D			Analyzed: 01/15/13 19:14			
Pentafluorobenzene	1210001	11.31	1226866	11.31	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1907854	11.89	1885250	11.89	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1678628	14.56	1630693	14.56	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	798613	16.89	801552	16.89	100	50 - 200	0.0000	+/-0.50	
Secondary Cal Check (AA22782-SCV2)			Lab File ID: 2AJ013.D			Analyzed: 01/15/13 19:45			
Pentafluorobenzene	1177090	11.31	1226866	11.31	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1815003	11.88	1885250	11.89	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1563298	14.56	1630693	14.56	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	792048	16.89	801552	16.89	99	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24402	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA24402-ICB1)			Lab File ID: 2F3002.D			Analyzed: 06/03/13 13:03			
Pentafluorobenzene	1203780	11.31	1241586	11.31	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1793128	11.89	1720455	11.89	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1499493	14.56	1501037	14.56	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	704865	16.89	749187	16.89	94	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24402-CAL2)			Lab File ID: 2F3004.D			Analyzed: 06/03/13 14:09			
Pentafluorobenzene	1340723	11.31	1241586	11.31	108	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1966139	11.89	1720455	11.89	114	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1659167	14.56	1501037	14.56	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	793307	16.89	749187	16.89	106	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24402-CAL4)			Lab File ID: 2F3006.D			Analyzed: 06/03/13 15:17			
Pentafluorobenzene	1283129	11.32	1241586	11.31	103	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1837817	11.89	1720455	11.89	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1632888	14.56	1501037	14.56	109	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	807829	16.89	749187	16.89	108	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24402-CAL5)			Lab File ID: 2F3007.D			Analyzed: 06/03/13 15:51			
Pentafluorobenzene	1241586	11.31	1241586	11.31	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1720455	11.89	1720455	11.89	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1501037	14.56	1501037	14.56	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	749187	16.89	749187	16.89	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24402-CAL6)			Lab File ID: 2F3008.D			Analyzed: 06/03/13 16:25			
Pentafluorobenzene	1208805	11.32	1241586	11.31	97	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1559795	11.88	1720455	11.89	91	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1405272	14.56	1501037	14.56	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	760479	16.89	749187	16.89	102	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24402-CAL7)			Lab File ID: 2F3009.D			Analyzed: 06/03/13 16:59			
Pentafluorobenzene	1200007	11.32	1241586	11.31	97	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1825876	11.89	1720455	11.89	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1581660	14.56	1501037	14.56	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	790123	16.89	749187	16.89	105	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24402-CAL1)			Lab File ID: 2F3011.D			Analyzed: 06/03/13 18:07			
Pentafluorobenzene	1177625	11.31	1241586	11.31	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1788256	11.89	1720455	11.89	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1520396	14.56	1501037	14.56	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	717534	16.89	749187	16.89	96	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24402	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA24402-CAL3)			Lab File ID: 2F3012.D			Analyzed: 06/03/13 18:40			
Pentafluorobenzene	1165107	11.32	1241586	11.31	94	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1706153	11.89	1720455	11.89	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1656272	14.55	1501037	14.56	110	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	721191	16.89	749187	16.89	96	50 - 200	0.0000	+/-0.50	
Secondary Cal Check (AA24402-SCV2)			Lab File ID: 2F3014.D			Analyzed: 06/03/13 19:46			
Pentafluorobenzene	1104114	11.31	1241586	11.31	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1543186	11.89	1720455	11.89	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1324729	14.56	1501037	14.56	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	716950	16.89	749187	16.89	96	50 - 200	0.0000	+/-0.50	
Calibration Check (AA24402-CCV1)			Lab File ID: 2F4002.D			Analyzed: 06/04/13 13:41			
Pentafluorobenzene	1274126	11.31	1241586	11.31	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1833243	11.88	1720455	11.89	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1588437	14.56	1501037	14.56	106	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	793021	16.89	749187	16.89	106	50 - 200	0.0000	+/-0.50	
Secondary Cal Check (AA24402-SCV1)			Lab File ID: 2F4003.D			Analyzed: 06/04/13 14:17			
Pentafluorobenzene	1163191	11.31	1241586	11.31	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1653188	11.88	1720455	11.89	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1420230	14.55	1501037	14.56	95	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	717428	16.89	749187	16.89	96	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24527	Instrument:	OVGCMS3
Matrix:	Water	Calibration:	1306033

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA24527-ICB1)			Lab File ID: 3FH002.D			Analyzed: 06/13/13 10:06			
Pentafluorobenzene	1352258	11.48	1787640	11.48	76	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2368139	12.06	2856125	12.06	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1954761	14.75	2602095	14.75	75	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	812529	17.14	1180728	17.14	69	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24527-CAL3)			Lab File ID: 3FH005.D			Analyzed: 06/13/13 11:44			
Pentafluorobenzene	1551749	11.48	1787640	11.48	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2551441	12.06	2856125	12.06	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2362747	14.75	2602095	14.75	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1137228	17.14	1180728	17.14	96	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24527-CAL4)			Lab File ID: 3FH006.D			Analyzed: 06/13/13 12:14			
Pentafluorobenzene	1702809	11.48	1787640	11.48	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2884700	12.06	2856125	12.06	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2552443	14.75	2602095	14.75	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1233250	17.14	1180728	17.14	104	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24527-CAL5)			Lab File ID: 3FH007.D			Analyzed: 06/13/13 12:44			
Pentafluorobenzene	1787640	11.48	1787640	11.48	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2856125	12.06	2856125	12.06	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2602095	14.75	2602095	14.75	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1180728	17.14	1180728	17.14	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24527-CAL6)			Lab File ID: 3FH008.D			Analyzed: 06/13/13 13:14			
Pentafluorobenzene	1882302	11.48	1787640	11.48	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	3044894	12.06	2856125	12.06	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2788423	14.75	2602095	14.75	107	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1289557	17.13	1180728	17.14	109	50 - 200	-0.0100	+/-0.50	
Cal Standard (AA24527-CAL7)			Lab File ID: 3FH009.D			Analyzed: 06/13/13 13:45			
Pentafluorobenzene	1991980	11.48	1787640	11.48	111	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	3349527	12.06	2856125	12.06	117	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2817277	14.75	2602095	14.75	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1181833	17.14	1180728	17.14	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24527-CAL1)			Lab File ID: 3FH012.D			Analyzed: 06/13/13 15:16			
Pentafluorobenzene	1326277	11.48	1787640	11.48	74	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2279610	12.06	2856125	12.06	80	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1859081	14.75	2602095	14.75	71	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	834015	17.15	1180728	17.14	71	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24527	Instrument:	OVGCMS3
Matrix:	Water	Calibration:	1306033

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA24527-CAL2)			Lab File ID: 3FH013.D			Analyzed: 06/13/13 15:46			
Pentafluorobenzene	1416061	11.48	1787640	11.48	79	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2359540	12.06	2856125	12.06	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2059069	14.75	2602095	14.75	79	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	950749	17.14	1180728	17.14	81	50 - 200	0.0000	+/-0.50	
Secondary Cal Check (AA24527-SCV1)			Lab File ID: 3FH014.D			Analyzed: 06/13/13 16:39			
Pentafluorobenzene	1596955	11.48	1787640	11.48	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2715736	12.06	2856125	12.06	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2603388	14.76	2602095	14.75	100	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	1241916	17.15	1180728	17.14	105	50 - 200	0.0100	+/-0.50	
Secondary Cal Check (AA24527-SCV2)			Lab File ID: 3FH015.D			Analyzed: 06/13/13 17:09			
Pentafluorobenzene	1753593	11.48	1787640	11.48	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2941794	12.06	2856125	12.06	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	2694898	14.75	2602095	14.75	104	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1295633	17.14	1180728	17.14	110	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24731	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24731-CCV1)			Lab File ID: 2FV002.D			Analyzed: 06/27/13 13:51			
Pentafluorobenzene	1428004	11.3	1241586	11.31	115	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	2001940	11.88	1720455	11.89	116	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1755406	14.55	1501037	14.56	117	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	973815	16.88	749187	16.89	130	50 - 200	-0.0100	+/-0.50	
LCS (3F27024-BS1)			Lab File ID: 2FV003.D			Analyzed: 06/27/13 14:25			
Pentafluorobenzene	1470467	11.31	1241586	11.31	118	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2057135	11.88	1720455	11.89	120	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1931432	14.55	1501037	14.56	129	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	885026	16.89	749187	16.89	118	50 - 200	0.0000	+/-0.50	
LCS Dup (3F27024-BSD1)			Lab File ID: 2FV004.D			Analyzed: 06/27/13 14:59			
Pentafluorobenzene	1445900	11.31	1241586	11.31	116	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2021849	11.88	1720455	11.89	118	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1727474	14.56	1501037	14.56	115	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	902538	16.88	749187	16.89	120	50 - 200	-0.0100	+/-0.50	
Blank (3F27024-BLK1)			Lab File ID: 2FV006.D			Analyzed: 06/27/13 16:11			
Pentafluorobenzene	1378524	11.31	1241586	11.31	111	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1921966	11.89	1720455	11.89	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1633411	14.55	1501037	14.56	109	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	803711	16.89	749187	16.89	107	50 - 200	0.0000	+/-0.50	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 2FV007.D			Analyzed: 06/27/13 16:47			
Pentafluorobenzene	1446043	11.31	1241586	11.31	116	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2055468	11.88	1720455	11.89	119	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1718236	14.56	1501037	14.56	114	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	885679	16.89	749187	16.89	118	50 - 200	0.0000	+/-0.50	
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 2FV008.D			Analyzed: 06/27/13 17:23			
Pentafluorobenzene	1389766	11.32	1241586	11.31	112	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1962629	11.89	1720455	11.89	114	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1644635	14.55	1501037	14.56	110	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	838577	16.89	749187	16.89	112	50 - 200	0.0000	+/-0.50	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 2FV009.D			Analyzed: 06/27/13 17:58			
Pentafluorobenzene	1435826	11.31	1241586	11.31	116	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2034106	11.88	1720455	11.89	118	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1718011	14.56	1501037	14.56	114	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	879082	16.88	749187	16.89	117	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24731	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 2FV010.D			Analyzed: 06/27/13 18:33			
Pentafluorobenzene	1353886	11.31	1241586	11.31	109	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1919972	11.88	1720455	11.89	112	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1635121	14.56	1501037	14.56	109	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	855762	16.89	749187	16.89	114	50 - 200	0.0000	+/-0.50	
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 2FV011.D			Analyzed: 06/27/13 19:08			
Pentafluorobenzene	1396010	11.31	1241586	11.31	112	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1969980	11.88	1720455	11.89	115	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1661111	14.56	1501037	14.56	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	862123	16.88	749187	16.89	115	50 - 200	-0.0100	+/-0.50	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 2FV012.D			Analyzed: 06/27/13 19:42			
Pentafluorobenzene	1426510	11.31	1241586	11.31	115	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2011238	11.89	1720455	11.89	117	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1706799	14.55	1501037	14.56	114	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	895529	16.89	749187	16.89	120	50 - 200	0.0000	+/-0.50	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 2FV013.D			Analyzed: 06/27/13 20:17			
Pentafluorobenzene	1382958	11.32	1241586	11.31	111	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1959202	11.89	1720455	11.89	114	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1665294	14.55	1501037	14.56	111	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	857006	16.89	749187	16.89	114	50 - 200	0.0000	+/-0.50	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 2FV014.D			Analyzed: 06/27/13 20:53			
Pentafluorobenzene	1452300	11.31	1241586	11.31	117	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2051667	11.88	1720455	11.89	119	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1756856	14.56	1501037	14.56	117	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	860545	16.89	749187	16.89	115	50 - 200	0.0000	+/-0.50	
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 2FV015.D			Analyzed: 06/27/13 21:28			
Pentafluorobenzene	1347780	11.31	1241586	11.31	109	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1878184	11.89	1720455	11.89	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1594407	14.55	1501037	14.56	106	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	776955	16.89	749187	16.89	104	50 - 200	0.0000	+/-0.50	
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 2FV016.D			Analyzed: 06/27/13 22:02			
Pentafluorobenzene	1379398	11.31	1241586	11.31	111	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1956594	11.88	1720455	11.89	114	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	1645239	14.55	1501037	14.56	110	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	847184	16.88	749187	16.89	113	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24731	Instrument:	OVGCMS2
Matrix:	Soil	Calibration:	1306004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 2FV017.D			Analyzed: 06/27/13 22:37			
Pentafluorobenzene	1360164	11.31	1241586	11.31	110	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1954100	11.89	1720455	11.89	114	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1640533	14.55	1501037	14.56	109	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	827335	16.89	749187	16.89	110	50 - 200	0.0000	+/-0.50	
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 2FV018.D			Analyzed: 06/27/13 23:11			
Pentafluorobenzene	1289083	11.31	1241586	11.31	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1832861	11.89	1720455	11.89	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1535520	14.55	1501037	14.56	102	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	777227	16.89	749187	16.89	104	50 - 200	0.0000	+/-0.50	
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 2FV019.D			Analyzed: 06/27/13 23:44			
Pentafluorobenzene	1305659	11.32	1241586	11.31	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1839859	11.89	1720455	11.89	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1581220	14.56	1501037	14.56	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	800544	16.89	749187	16.89	107	50 - 200	0.0000	+/-0.50	
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 2FV020.D			Analyzed: 06/28/13 00:17			
Pentafluorobenzene	1377580	11.32	1241586	11.31	111	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1973757	11.89	1720455	11.89	115	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1618413	14.55	1501037	14.56	108	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	817874	16.89	749187	16.89	109	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24752	Instrument:	OVGCMS2
Matrix:	Water	Calibration:	1301050

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24752-CCV1)			Lab File ID: 2FW002.D			Analyzed: 06/28/13 15:41			
Pentafluorobenzene	1264261	11.31	1226866	11.31	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1743275	11.89	1885250	11.89	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1532765	14.55	1630693	14.56	94	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	818138	16.89	801552	16.89	102	50 - 200	0.0000	+/-0.50	
LCS (3F28011-BS1)			Lab File ID: 2FW003.D			Analyzed: 06/28/13 16:15			
Pentafluorobenzene	1410053	11.31	1226866	11.31	115	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1907620	11.89	1885250	11.89	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1540725	14.56	1630693	14.56	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	750957	16.89	801552	16.89	94	50 - 200	0.0000	+/-0.50	
LCS Dup (3F28011-BSD1)			Lab File ID: 2FW004.D			Analyzed: 06/28/13 16:49			
Pentafluorobenzene	1309873	11.31	1226866	11.31	107	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1814101	11.89	1885250	11.89	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1508065	14.56	1630693	14.56	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	756454	16.89	801552	16.89	94	50 - 200	0.0000	+/-0.50	
Blank (3F28011-BLK1)			Lab File ID: 2FW005.D			Analyzed: 06/28/13 17:22			
Pentafluorobenzene	1288519	11.31	1226866	11.31	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1810915	11.89	1885250	11.89	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1476376	14.56	1630693	14.56	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	715805	16.89	801552	16.89	89	50 - 200	0.0000	+/-0.50	
TR-TB01-061913 (A303499-01)			Lab File ID: 2FW014.D			Analyzed: 06/28/13 22:14			
Pentafluorobenzene	1098956	11.31	1226866	11.31	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	1600817	11.89	1885250	11.89	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1312559	14.56	1630693	14.56	80	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	619411	16.9	801552	16.89	77	50 - 200	0.0100	+/-0.50	
TR-2ND-SB07-GW-0613 (A303499-08)			Lab File ID: 2FW015.D			Analyzed: 06/28/13 22:46			
Pentafluorobenzene	1175430	11.32	1226866	11.31	96	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1712647	11.89	1885250	11.89	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1358134	14.55	1630693	14.56	83	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	643539	16.89	801552	16.89	80	50 - 200	0.0000	+/-0.50	
TR-2ND-SB06-GW-0613 (A303499-13)			Lab File ID: 2FW016.D			Analyzed: 06/28/13 23:18			
Pentafluorobenzene	1137237	11.32	1226866	11.31	93	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1671212	11.89	1885250	11.89	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1374091	14.56	1630693	14.56	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	631167	16.9	801552	16.89	79	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24752	Instrument:	OVGCMS2
Matrix:	Water	Calibration:	1301050

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB04-GW-0613 (A303499-16)			Lab File ID: 2FW017.D			Analyzed: 06/28/13 23:50			
Pentafluorobenzene	1229143	11.32	1226866	11.31	100	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	1734095	11.89	1885250	11.89	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1431511	14.56	1630693	14.56	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	671064	16.89	801552	16.89	84	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24769	Instrument:	OVGCMS3
Matrix:	Water	Calibration:	1306033

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24769-CCV1)			Lab File ID: 3G1002.D			Analyzed: 07/01/13 12:42			
Pentafluorobenzene	1461678	11.5	1787640	11.48	82	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	2446570	12.08	2856125	12.06	86	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	2154855	14.77	2602095	14.75	83	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	1006281	17.16	1180728	17.14	85	50 - 200	0.0200	+/-0.50	
LCS (3F30006-BS1)			Lab File ID: 3G1003.D			Analyzed: 07/01/13 13:19			
Pentafluorobenzene	1506488	11.5	1787640	11.48	84	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	2435830	12.08	2856125	12.06	85	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	2149641	14.77	2602095	14.75	83	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	958944	17.16	1180728	17.14	81	50 - 200	0.0200	+/-0.50	
LCS Dup (3F30006-BSD1)			Lab File ID: 3G1004.D			Analyzed: 07/01/13 13:49			
Pentafluorobenzene	1538971	11.5	1787640	11.48	86	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	2477912	12.08	2856125	12.06	87	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	2204757	14.77	2602095	14.75	85	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	1010445	17.16	1180728	17.14	86	50 - 200	0.0200	+/-0.50	
Blank (3F30006-BLK1)			Lab File ID: 3G1005.D			Analyzed: 07/01/13 14:19			
Pentafluorobenzene	1393238	11.5	1787640	11.48	78	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	2288913	12.08	2856125	12.06	80	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	1897751	14.77	2602095	14.75	73	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	761651	17.16	1180728	17.14	65	50 - 200	0.0200	+/-0.50	
TR-TB01-061913 (A303499-01RE1)			Lab File ID: 3G1011.D			Analyzed: 07/01/13 17:19			
Pentafluorobenzene	1120353	11.5	1787640	11.48	63	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	1911348	12.08	2856125	12.06	67	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	1607549	14.77	2602095	14.75	62	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	645976	17.16	1180728	17.14	55	50 - 200	0.0200	+/-0.50	
TR-2ND-SB07-GW-0613 (A303499-08RE1)			Lab File ID: 3G1012.D			Analyzed: 07/01/13 17:49			
Pentafluorobenzene	1358685	11.5	1787640	11.48	76	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	2381785	12.08	2856125	12.06	83	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	1958530	14.77	2602095	14.75	75	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	783948	17.16	1180728	17.14	66	50 - 200	0.0200	+/-0.50	
TR-2ND-SB06-GW-0613 (A303499-13RE1)			Lab File ID: 3G1013.D			Analyzed: 07/01/13 18:19			
Pentafluorobenzene	1343599	11.5	1787640	11.48	75	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	2199580	12.08	2856125	12.06	77	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	1903562	14.77	2602095	14.75	73	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	764911	17.16	1180728	17.14	65	50 - 200	0.0200	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24769	Instrument:	OVGCMS3
Matrix:	Water	Calibration:	1306033

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB04-GW-0613 (A303499-16RE1)			Lab File ID: 3G1014.D			Analyzed: 07/01/13 18:49			
Pentafluorobenzene	1359041	11.5	1787640	11.48	76	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	2299795	12.08	2856125	12.06	81	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	1808826	14.77	2602095	14.75	70	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	779425	17.17	1180728	17.14	66	50 - 200	0.0300	+/-0.50	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA22782	Instrument:	OVGCMS2
		Calibration:	1301050

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA22782-TUN1	2AJ001.D	01/15/13 13:23
Initial Cal Blank	AA22782-ICB1	2AJ002.D	01/15/13 13:54
Cal Standard	AA22782-CAL1	2AJ003.D	01/15/13 14:34
Cal Standard	AA22782-CAL2	2AJ004.D	01/15/13 15:05
Cal Standard	AA22782-CAL3	2AJ005.D	01/15/13 15:37
Cal Standard	AA22782-CAL4	2AJ006.D	01/15/13 16:08
Cal Standard	AA22782-CAL5	2AJ007.D	01/15/13 16:39
Cal Standard	AA22782-CAL6	2AJ008.D	01/15/13 17:10
Cal Standard	AA22782-CAL7	2AJ009.D	01/15/13 17:41
Secondary Cal Check	AA22782-SCV1	2AJ012.D	01/15/13 19:14
Secondary Cal Check	AA22782-SCV2	2AJ013.D	01/15/13 19:45

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24402

Instrument: OVGCMS2

Calibration: 1306004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24402-TUN1	2F3001.D	06/03/13 12:31
Initial Cal Blank	AA24402-ICB1	2F3002.D	06/03/13 13:03
Cal Standard	AA24402-CAL2	2F3004.D	06/03/13 14:09
Cal Standard	AA24402-CAL4	2F3006.D	06/03/13 15:17
Cal Standard	AA24402-CAL5	2F3007.D	06/03/13 15:51
Cal Standard	AA24402-CAL6	2F3008.D	06/03/13 16:25
Cal Standard	AA24402-CAL7	2F3009.D	06/03/13 16:59
Cal Standard	AA24402-CAL1	2F3011.D	06/03/13 18:07
Cal Standard	AA24402-CAL3	2F3012.D	06/03/13 18:40
Secondary Cal Check	AA24402-SCV2	2F3014.D	06/03/13 19:46
MS Tune	AA24402-TUN2	2F4001.D	06/04/13 13:09
Calibration Check	AA24402-CCV1	2F4002.D	06/04/13 13:41
Secondary Cal Check	AA24402-SCV1	2F4003.D	06/04/13 14:17

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24527

Instrument: OVGCMS3

Calibration: 1306033

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24527-TUN1	3FH001.D	06/13/13 09:36
Initial Cal Blank	AA24527-ICB1	3FH002.D	06/13/13 10:06
Cal Standard	AA24527-CAL3	3FH005.D	06/13/13 11:44
Cal Standard	AA24527-CAL4	3FH006.D	06/13/13 12:14
Cal Standard	AA24527-CAL5	3FH007.D	06/13/13 12:44
Cal Standard	AA24527-CAL6	3FH008.D	06/13/13 13:14
Cal Standard	AA24527-CAL7	3FH009.D	06/13/13 13:45
Cal Standard	AA24527-CAL1	3FH012.D	06/13/13 15:16
Cal Standard	AA24527-CAL2	3FH013.D	06/13/13 15:46
Secondary Cal Check	AA24527-SCV1	3FH014.D	06/13/13 16:39
Secondary Cal Check	AA24527-SCV2	3FH015.D	06/13/13 17:09

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24731

Instrument: OVGCMS2

Calibration: 1306004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24731-TUN1	2FV001.D	06/27/13 13:17
Calibration Check	AA24731-CCV1	2FV002.D	06/27/13 13:51
LCS	3F27024-BS1	2FV003.D	06/27/13 14:25
LCS Dup	3F27024-BSD1	2FV004.D	06/27/13 14:59
Blank	3F27024-BLK1	2FV006.D	06/27/13 16:11
TR-2ND-SB07-0.5-01-0613	A303499-06	2FV007.D	06/27/13 16:47
TR-2ND-SB07-04-06-0613	A303499-07	2FV008.D	06/27/13 17:23
TR-2ND-SB06-0.5-01-0613	A303499-09	2FV009.D	06/27/13 17:58
TR-2ND-SB06-05-07-0613	A303499-10	2FV010.D	06/27/13 18:33
TR-2ND-SB06D-0.5-01-0613	A303499-11	2FV011.D	06/27/13 19:08
TR-2ND-SB06D-05-07-0613	A303499-12	2FV012.D	06/27/13 19:42
TR-2ND-SB04-0.5-01-0613	A303499-14	2FV013.D	06/27/13 20:17
TR-2ND-SB04-04-06-0613	A303499-15	2FV014.D	06/27/13 20:53
TR-2ND-SB05-0.5-01-0613	A303499-17	2FV015.D	06/27/13 21:28
TR-2ND-SB05-03-05-0613	A303499-18	2FV016.D	06/27/13 22:02
TR-2ND-SB03-0.5-01-0613	A303499-19	2FV017.D	06/27/13 22:37
TR-2ND-SB03-04-06-0613	A303499-20	2FV018.D	06/27/13 23:11
TR-2ND-SB02-0.5-1-0613	A303499-21	2FV019.D	06/27/13 23:44
TR-2ND-SB02-06-08-0613	A303499-22	2FV020.D	06/28/13 00:17

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24752	Instrument:	OVGCMS2
		Calibration:	1301050

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24752-TUN1	2FW001.D	06/28/13 15:09
Calibration Check	AA24752-CCV1	2FW002.D	06/28/13 15:41
LCS	3F28011-BS1	2FW003.D	06/28/13 16:15
LCS Dup	3F28011-BSD1	2FW004.D	06/28/13 16:49
Blank	3F28011-BLK1	2FW005.D	06/28/13 17:22
TR-TB01-061913	A303499-01	2FW014.D	06/28/13 22:14
TR-2ND-SB07-GW-0613	A303499-08	2FW015.D	06/28/13 22:46
TR-2ND-SB06-GW-0613	A303499-13	2FW016.D	06/28/13 23:18
TR-2ND-SB04-GW-0613	A303499-16	2FW017.D	06/28/13 23:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24769	Instrument:	OVGCMS3
		Calibration:	1306033

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24769-TUN1	3G1001.D	07/01/13 12:12
Calibration Check	AA24769-CCV1	3G1002.D	07/01/13 12:42
LCS	3F30006-BS1	3G1003.D	07/01/13 13:19
LCS Dup	3F30006-BSD1	3G1004.D	07/01/13 13:49
Blank	3F30006-BLK1	3G1005.D	07/01/13 14:19
TR-TB01-061913	A303499-01RE1	3G1011.D	07/01/13 17:19
TR-2ND-SB07-GW-0613	A303499-08RE1	3G1012.D	07/01/13 17:49
TR-2ND-SB06-GW-0613	A303499-13RE1	3G1013.D	07/01/13 18:19
TR-2ND-SB04-GW-0613	A303499-16RE1	3G1014.D	07/01/13 18:49

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2AJ001.D	Injection Date:	01/15/13
Instrument ID:	OVGCMS2	Injection Time:	13:23
Sequence:	AA22782	Lab Sample ID:	AA22782-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.4	PASS
75	30 - 60% of 95	45.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.05	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	78.8	PASS
175	5 - 9% of 174	7.2	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.31	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2F3001.D	Injection Date:	06/03/13
Instrument ID:	OVGCMS2	Injection Time:	12:31
Sequence:	AA24402	Lab Sample ID:	AA24402-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.7	PASS
75	30 - 60% of 95	43.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.97	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	87.8	PASS
175	5 - 9% of 174	7.57	PASS
176	95 - 101% of 174	98.4	PASS
177	5 - 9% of 176	6.14	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2F4001.D	Injection Date:	06/04/13
Instrument ID:	OVGCMS2	Injection Time:	13:09
Sequence:	AA24402	Lab Sample ID:	AA24402-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.5	PASS
75	30 - 60% of 95	44.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.06	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	83.4	PASS
175	5 - 9% of 174	7.61	PASS
176	95 - 101% of 174	99.4	PASS
177	5 - 9% of 176	6.45	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2F3001.D	Injection Date:	06/03/13
Instrument ID:	OVGCMS2	Injection Time:	12:31
Sequence:	AA24402	Lab Sample ID:	AA24402-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.7	PASS
75	30 - 60% of 95	43.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.97	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	87.8	PASS
175	5 - 9% of 174	7.57	PASS
176	95 - 101% of 174	98.4	PASS
177	5 - 9% of 176	6.14	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2F4001.D	Injection Date:	06/04/13
Instrument ID:	OVGCMS2	Injection Time:	13:09
Sequence:	AA24402	Lab Sample ID:	AA24402-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.5	PASS
75	30 - 60% of 95	44.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.06	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	83.4	PASS
175	5 - 9% of 174	7.61	PASS
176	95 - 101% of 174	99.4	PASS
177	5 - 9% of 176	6.45	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	3FH001.D	Injection Date:	06/13/13
Instrument ID:	OVGCMS3	Injection Time:	09:36
Sequence:	AA24527	Lab Sample ID:	AA24527-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.5	PASS
75	30 - 60% of 95	40.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.73	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	87.5	PASS
175	5 - 9% of 174	7.86	PASS
176	95 - 101% of 174	96.2	PASS
177	5 - 9% of 176	6.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2FV001.D	Injection Date:	06/27/13
Instrument ID:	OVGCMS2	Injection Time:	13:17
Sequence:	AA24731	Lab Sample ID:	AA24731-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.3	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.5	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	87.2	PASS
175	5 - 9% of 174	7.29	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.71	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2FV001.D	Injection Date:	06/27/13
Instrument ID:	OVGCMS2	Injection Time:	13:17
Sequence:	AA24731	Lab Sample ID:	AA24731-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.3	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.5	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	87.2	PASS
175	5 - 9% of 174	7.29	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.71	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2FW001.D	Injection Date:	06/28/13
Instrument ID:	OVGCMS2	Injection Time:	15:09
Sequence:	AA24752	Lab Sample ID:	AA24752-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.2	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.55	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	92.4	PASS
175	5 - 9% of 174	8.16	PASS
176	95 - 101% of 174	95.2	PASS
177	5 - 9% of 176	6.86	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2FW001.D	Injection Date:	06/28/13
Instrument ID:	OVGCMS2	Injection Time:	15:09
Sequence:	AA24752	Lab Sample ID:	AA24752-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.2	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.55	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	92.4	PASS
175	5 - 9% of 174	8.16	PASS
176	95 - 101% of 174	95.2	PASS
177	5 - 9% of 176	6.86	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	3G1001.D	Injection Date:	07/01/13
Instrument ID:	OVGCMS3	Injection Time:	12:12
Sequence:	AA24769	Lab Sample ID:	AA24769-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.7	PASS
75	30 - 60% of 95	47.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.23	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	80.3	PASS
175	5 - 9% of 174	7.61	PASS
176	95 - 101% of 174	98	PASS
177	5 - 9% of 176	6.54	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	3G1001.D	Injection Date:	07/01/13
Instrument ID:	OVGCMS3	Injection Time:	12:12
Sequence:	AA24769	Lab Sample ID:	AA24769-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.7	PASS
75	30 - 60% of 95	47.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.23	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	80.3	PASS
175	5 - 9% of 174	7.61	PASS
176	95 - 101% of 174	98	PASS
177	5 - 9% of 176	6.54	PASS

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS2	Calibration:	1306004
Lab File ID:	2F4002.D	Calibration Date:	06/03/13 14:10
Sequence:	AA24402	Injection Date:	06/04/13
Lab Sample ID:	AA24402-CCV1	Injection Time:	13:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	54	0.6816918	0.7306789		7.2	20
Chloromethane	A	50.0	49	0.7968386	0.7799598	0.1	-2.1	20
Vinyl chloride	A	50.0	55	0.7438568	0.8151533		9.6	20
Bromomethane	A	50.0	48	0.2766087	0.2664211		-3.7	20
Chloroethane	A	50.0	45	0.2969425	0.2698901		-9.1	20
Trichlorofluoromethane	A	50.0	53	0.6372351	0.6737858		5.7	20
Freon 113	A	50.0	51	0.3846878	0.3887802		1.1	20
Acetone	A	50.0	45	0.2586324	0.2322518		-10.2	20
1,1-Dichloroethene	A	50.0	52	0.318674	0.3291904		3.3	20
Carbon disulfide	A	50.0	47	1.395097	1.324692		-5.0	20
Methylene Chloride	A	50.0	47	0.5762777	0.5418499		-6.0	20
Methyl-tert-Butyl Ether	A	50.0	48	1.565286	1.516035		-3.1	20
trans-1,2-Dichloroethene	A	50.0	50	0.5308432	0.5281793		-0.5	20
cis-1,2-Dichloroethene	A	50.0	50	0.5580819	0.5578444		-0.04	20
1,1-Dichloroethane	A	50.0	50	0.981215	0.9879274	0.1	0.7	20
2-Butanone	A	50.0	44	7.604215E-02	6.703733E-02		-11.8	20
Chloroform	A	50.0	51	0.884427	0.8946517		1.2	20
Bromochloromethane	A	50.0	47	0.2987768	0.2808451		-6.0	20
1,1,1-Trichloroethane	A	50.0	52	0.6656525	0.691959		4.0	20
Methyl acetate	A	50.0	46	0.1121563	0.1029412		-8.2	20
Cyclohexane	A	50.0	54	0.9193266	0.9843022		7.1	20
Methyl cyclohexane	A	50.0	48	0.575482	0.5472602		-4.9	20
Carbon Tetrachloride	A	50.0	51	0.405042	0.41612		2.7	20
1,2-Dichloroethane	A	50.0	48	0.5053803	0.4802522		-5.0	20
Benzene	A	50.0	49	1.297026	1.259993		-2.9	20
Trichloroethene	A	50.0	50	0.3577888	0.3560215		-0.5	20
1,2-Dichloropropane	A	50.0	49	0.3844736	0.3758143		-2.3	20
1,4-Dioxane	A	1000	820	5.752797E-03	4.701913E-03		-18.3	20
Bromodichloromethane	A	50.0	49	0.4783765	0.4667859		-2.4	20

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS2	Calibration:	1306004
Lab File ID:	2F4002.D	Calibration Date:	06/03/13 14:10
Sequence:	AA24402	Injection Date:	06/04/13
Lab Sample ID:	AA24402-CCV1	Injection Time:	13:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Methyl-2-pentanone	A	50.0	43	6.761835E-02	5.864634E-02		-13.3	20
2-Hexanone	A	50.0	44	0.4146241	0.3680249		-11.2	20
cis-1,3-Dichloropropene	A	50.0	50	0.6480083	0.6430626		-0.8	20
Toluene	A	50.0	51	0.9354005	0.9528442		1.9	20
trans-1,3-Dichloropropene	A	50.0	50	0.6218824	0.615976		-0.9	20
1,1,2-Trichloroethane	A	50.0	47	0.361298	0.3419569		-5.4	20
Tetrachloroethene	A	50.0	51	0.3245998	0.3335669		2.8	20
Dibromochloromethane	A	50.0	47	0.4746168	0.4475349		-5.7	20
1,2-Dibromoethane	A	50.0	47	0.4274497	0.4037881		-5.5	20
Chlorobenzene	A	50.0	49	1.083449	1.065097	0.3	-1.7	20
Ethylbenzene	A	50.0	50	0.5142021	0.5183202		0.8	20
m,p-Xylenes	A	100	100	0.6466605	0.6531219		1.0	20
o-Xylene	A	50.0	49	0.676819	0.6602383		-2.4	20
Bromoform	A	50.0	46	0.3693214	0.3424694	0.1	-7.3	20
Styrene	A	50.0	53	1.053655	1.108021		5.2	20
Isopropylbenzene	A	50.0	51	1.680932	1.702251		1.3	20
1,1,2,2-Tetrachloroethane	A	50.0	44	0.5709875	0.5033199	0.3	-11.9	20
1,2,4-Trichlorobenzene	A	50.0	47	1.105112	1.027879		-7.0	20
1,3-Dichlorobenzene	A	50.0	47	1.801488	1.70248		-5.5	20
1,4-Dichlorobenzene	A	50.0	47	1.744839	1.627527		-6.7	20
1,2-Dichlorobenzene	A	50.0	46	1.731176	1.604978		-7.3	20
1,2-Dibromo-3-chloropropane	A	50.0	41	0.223664	0.1844403		-17.5	20
1,2,3-Trichlorobenzene	A	50.0	46	1.00036	0.91704		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS2	Calibration:	1306004
Lab File ID:	2FV002.D	Calibration Date:	06/03/13 14:10
Sequence:	AA24731	Injection Date:	06/27/13
Lab Sample ID:	AA24731-CCV1	Injection Time:	13:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	54	0.6816918	0.7371128		8.1	20
Chloromethane	A	50.0	48	0.7968386	0.7575847	0.1	-4.9	20
Vinyl chloride	A	50.0	56	0.7438568	0.8319157		11.8	20
Bromomethane	A	50.0	46	0.2766087	0.2554489		-7.6	20
Chloroethane	A	50.0	44	0.2969425	0.2619594		-11.8	20
Trichlorofluoromethane	A	50.0	56	0.6372351	0.7169511		12.5	20
Freon 113	A	50.0	51	0.3846878	0.3958707		2.9	20
Acetone	A	50.0	58	0.2586324	0.2975895		15.1	20
1,1-Dichloroethene	A	50.0	52	0.318674	0.3307302		3.8	20
Carbon disulfide	A	50.0	50	1.395097	1.38927		-0.4	20
Methylene Chloride	A	50.0	46	0.5762777	0.5357247		-7.0	20
Methyl-tert-Butyl Ether	A	50.0	47	1.565286	1.456159		-7.0	20
trans-1,2-Dichloroethene	A	50.0	48	0.5308432	0.5044727		-5.0	20
cis-1,2-Dichloroethene	A	50.0	47	0.5580819	0.5242415		-6.1	20
1,1-Dichloroethane	A	50.0	47	0.981215	0.9132916	0.1	-6.9	20
2-Butanone	A	50.0	47	7.604215E-02	7.177151E-02		-5.6	20
Chloroform	A	50.0	49	0.884427	0.8611103		-2.6	20
Bromochloromethane	A	50.0	46	0.2987768	0.2743088		-8.2	20
1,1,1-Trichloroethane	A	50.0	48	0.6656525	0.6406264		-3.8	20
Methyl acetate	A	50.0	44	0.1121563	9.861387E-02		-12.1	20
Cyclohexane	A	50.0	48	0.9193266	0.8853757		-3.7	20
Methyl cyclohexane	A	50.0	45	0.575482	0.5234977		-9.0	20
Carbon Tetrachloride	A	50.0	49	0.405042	0.3967991		-2.0	20
1,2-Dichloroethane	A	50.0	48	0.5053803	0.4865171		-3.7	20
Benzene	A	50.0	48	1.297026	1.238058		-4.5	20
Trichloroethene	A	50.0	48	0.3577888	0.3437106		-3.9	20
1,2-Dichloropropane	A	50.0	45	0.3844736	0.346932		-9.8	20
1,4-Dioxane	A	1000	900	5.752797E-03	5.180375E-03		-10.0	20
Bromodichloromethane	A	50.0	48	0.4783765	0.457693		-4.3	20

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS2	Calibration:	1306004
Lab File ID:	2FV002.D	Calibration Date:	06/03/13 14:10
Sequence:	AA24731	Injection Date:	06/27/13
Lab Sample ID:	AA24731-CCV1	Injection Time:	13:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Methyl-2-pentanone	A	50.0	49	6.761835E-02	6.647202E-02		-1.7	20
2-Hexanone	A	50.0	47	0.4146241	0.3861195		-6.9	20
cis-1,3-Dichloropropene	A	50.0	47	0.6480083	0.6140114		-5.2	20
Toluene	A	50.0	48	0.9354005	0.9051376		-3.2	20
trans-1,3-Dichloropropene	A	50.0	48	0.6218824	0.5982417		-3.8	20
1,1,2-Trichloroethane	A	50.0	47	0.361298	0.3369055		-6.8	20
Tetrachloroethene	A	50.0	50	0.3245998	0.3243711		-0.07	20
Dibromochloromethane	A	50.0	46	0.4746168	0.4341617		-8.5	20
1,2-Dibromoethane	A	50.0	45	0.4274497	0.3884241		-9.1	20
Chlorobenzene	A	50.0	47	1.083449	1.019589	0.3	-5.9	20
Ethylbenzene	A	50.0	48	0.5142021	0.4893945		-4.8	20
m,p-Xylenes	A	100	95	0.6466605	0.616272		-4.7	20
o-Xylene	A	50.0	47	0.676819	0.6331578		-6.5	20
Bromoform	A	50.0	48	0.3693214	0.3550466	0.1	-3.9	20
Styrene	A	50.0	49	1.053655	1.03988		-1.3	20
Isopropylbenzene	A	50.0	47	1.680932	1.590822		-5.4	20
1,1,2,2-Tetrachloroethane	A	50.0	46	0.5709875	0.523709	0.3	-8.3	20
1,2,4-Trichlorobenzene	A	50.0	42	1.105112	0.9225705		-16.5	20
1,3-Dichlorobenzene	A	50.0	42	1.801488	1.496282		-16.9	20
1,4-Dichlorobenzene	A	50.0	42	1.744839	1.46174		-16.2	20
1,2-Dichlorobenzene	A	50.0	42	1.731176	1.456176		-15.9	20
1,2-Dibromo-3-chloropropane	A	50.0	40	0.223664	0.1798689		-19.6	20
1,2,3-Trichlorobenzene	A	50.0	41	1.00036	0.8108963		-18.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS2	Calibration:	1301050
Lab File ID:	2FW002.D	Calibration Date:	01/15/13 15:25
Sequence:	AA24752	Injection Date:	06/28/13
Lab Sample ID:	AA24752-CCV1	Injection Time:	15:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	46	0.8496112	0.7860458		-7.5	20
Chloromethane	A	50.0	40	1.067657	0.8604426	0.1	-19.4	20
Vinyl chloride	A	50.0	41	1.060297	0.8759948		-17.4	20
Bromomethane	A	50.0	41	0.4425	0.3607507		-18.5	20
Chloroethane	A	50.0	46	0.3764704	0.348186		-7.5	20
Trichlorofluoromethane	A	50.0	49	0.8036015	0.7868019		-2.1	20
Freon 113	A	50.0	56	0.3797599	0.4242953		11.7	20
Acetone	A	50.0	44	0.2092009	0.182452		-12.8	20
1,1-Dichloroethene	A	50.0	59	0.293601	0.3473254		18.3	20
Carbon disulfide	A	50.0	45	1.614776	1.462128		-9.5	20
Methylene Chloride	A	50.0	48	0.5627043	0.541177		-3.8	20
Methyl-tert-Butyl Ether	A	50.0	54	1.072062	1.166369		8.8	20
trans-1,2-Dichloroethene	A	50.0	51	0.5162667	0.5309726		2.8	20
cis-1,2-Dichloroethene	A	50.0	52	0.5331259	0.556567		4.4	20
1,1-Dichloroethane	A	50.0	49	0.9771269	0.9653323	0.1	-1.2	20
2-Butanone	A	50.0	44	5.423455E-02	4.719437E-02		-13.0	20
Chloroform	A	50.0	53	0.8569152	0.9081092		6.0	20
Bromochloromethane	A	50.0	49	0.2808011	0.2755111		-1.9	20
1,1,1-Trichloroethane	A	50.0	53	0.6555611	0.6989569		6.6	20
Methyl acetate	A	50.0	52	7.310765E-02	7.666218E-02		4.9	20
Cyclohexane	A	50.0	47	1.007002	0.9459344		-6.1	20
Methyl cyclohexane	A	50.0	53	0.5303279	0.5664866		6.8	20
Carbon Tetrachloride	A	50.0	60	0.362853	0.4318492		19.0	20
1,2-Dichloroethane	A	50.0	57	0.4227767	0.4836735		14.4	20
Benzene	A	50.0	60	1.107077	1.324669		19.7	20
Trichloroethene	A	50.0	56	0.332805	0.3740225		12.4	20
1,2-Dichloropropane	A	50.0	53	0.3443427	0.3658476		6.2	20
1,4-Dioxane	A	1000	1100	3.597196E-03	3.893935E-03		8.2	20
Bromodichloromethane	A	50.0	57	0.4163163	0.4773888		14.7	20

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS2	Calibration:	1301050
Lab File ID:	2FW002.D	Calibration Date:	01/15/13 15:25
Sequence:	AA24752	Injection Date:	06/28/13
Lab Sample ID:	AA24752-CCV1	Injection Time:	15:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Methyl-2-pentanone	A	50.0	51	0.0444873	4.580172E-02		3.0	20
2-Hexanone	A	50.0	43	0.3088939	0.2652295		-14.1	20
cis-1,3-Dichloropropene	A	50.0	57	0.5578713	0.6369988		14.2	20
Toluene	A	50.0	58	0.8529015	0.986174		15.6	20
trans-1,3-Dichloropropene	A	50.0	57	0.5226545	0.5924868		13.4	20
1,1,2-Trichloroethane	A	50.0	56	0.2899597	0.3225752		11.2	20
Tetrachloroethene	A	50.0	60	0.2829584	0.3393586		19.9	20
Dibromochloromethane	A	50.0	53	0.4016647	0.423915		5.5	20
1,2-Dibromoethane	A	50.0	56	0.3297884	0.3721653		12.8	20
Chlorobenzene	A	50.0	55	0.9887715	1.082957	0.3	9.5	20
Ethylbenzene	A	50.0	55	0.480363	0.532518		10.9	20
m,p-Xylenes	A	100	110	0.5930915	0.6721011		13.3	20
o-Xylene	A	50.0	55	0.6231875	0.6894005		10.6	20
Bromoform	A	50.0	58	0.2420283	0.2815024	0.1	16.3	20
Styrene	A	50.0	53	1.046362	1.109988		6.1	20
Isopropylbenzene	A	50.0	55	1.545691	1.713746		10.9	20
1,1,2,2-Tetrachloroethane	A	50.0	59	0.3712973	0.4391782	0.3	18.3	20
1,2,4-Trichlorobenzene	A	50.0	48	0.918128	0.8873039		-3.4	20
1,3-Dichlorobenzene	A	50.0	50	1.649161	1.651168		0.1	20
1,4-Dichlorobenzene	A	50.0	50	1.565628	1.563808		-0.1	20
1,2-Dichlorobenzene	A	50.0	50	1.517641	1.526184		0.6	20
1,2-Dibromo-3-chloropropane	A	50.0	55	0.1227961	0.1339273		9.1	20
1,2,3-Trichlorobenzene	A	50.0	49	0.7917757	0.7751504		-2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS3	Calibration:	1306033
Lab File ID:	3G1002.D	Calibration Date:	06/13/13 09:02
Sequence:	AA24769	Injection Date:	07/01/13
Lab Sample ID:	AA24769-CCV1	Injection Time:	12:42

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	57	1.037361	1.192737		15.0	20
Chloromethane	A	50.0	41	1.059936	0.8733976	0.1	-17.6	20
Vinyl chloride	A	50.0	42	1.089963	0.9074625		-16.7	20
Bromomethane	A	50.0	45	0.7371292	0.6670553		-9.5	20
Chloroethane	A	50.0	45	0.6218215	0.5549574		-10.8	20
Trichlorofluoromethane	A	50.0	59	1.309182	1.550045		18.4	20
Freon 113	A	50.0	45	0.8875421	0.8064245		-9.1	20
Acetone	A	50.0	51	0.1497159	0.153776		2.7	20
1,1-Dichloroethene	A	50.0	41	0.6868533	0.5674745		-17.4	20
Carbon disulfide	A	50.0	45	2.565204	2.299173		-10.4	20
Methylene Chloride	A	50.0	42	0.7968829	0.6685836		-16.1	20
Methyl-tert-Butyl Ether	A	50.0	56	0.8775536	0.9814816		11.8	20
trans-1,2-Dichloroethene	A	50.0	46	0.6941017	0.6346234		-8.6	20
cis-1,2-Dichloroethene	A	50.0	46	0.7221569	0.6695962		-7.3	20
1,1-Dichloroethane	A	50.0	46	1.257176	1.145319	0.1	-8.9	20
2-Butanone	A	50.0	41	0.0379066	3.087958E-02		-18.5	20
Chloroform	A	50.0	52	1.276935	1.315512		3.0	20
Bromochloromethane	A	50.0	42	0.4034054	0.3352948		-16.9	20
1,1,1-Trichloroethane	A	50.0	60	0.9838435	1.177237		19.7	20
Methyl acetate	A	50.0	42	7.794707E-02	6.622936E-02		-15.0	20
Cyclohexane	A	50.0	49	1.081537	1.065542		-1.5	20
Methyl cyclohexane	A	50.0	50	0.6137229	0.6098697		-0.6	20
Carbon Tetrachloride	A	50.0	60	0.5446732	0.6489853		19.2	20
1,2-Dichloroethane	A	50.0	58	0.4900266	0.5652064		15.3	20
Benzene	A	50.0	41	1.514479	1.242244		-18.0	20
Trichloroethene	A	50.0	41	0.4662336	0.3795653		-18.6	20
1,2-Dichloropropane	A	50.0	40	0.4088076	0.3291764		-19.5	20
1,4-Dioxane	A	1000	860	2.419878E-03	2.090989E-03		-13.6	20
Bromodichloromethane	A	50.0	53	0.5341104	0.5635964		5.5	20

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OVGCMS3	Calibration:	1306033
Lab File ID:	3G1002.D	Calibration Date:	06/13/13 09:02
Sequence:	AA24769	Injection Date:	07/01/13
Lab Sample ID:	AA24769-CCV1	Injection Time:	12:42

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Methyl-2-pentanone	A	50.0	50	3.355655E-02	3.323387E-02		-1.0	20
2-Hexanone	A	50.0	42	0.1774913	0.1485014		-16.3	20
cis-1,3-Dichloropropene	A	50.0	52	0.5583355	0.5790286		3.7	20
Toluene	A	50.0	47	1.007943	0.9405092		-6.7	20
trans-1,3-Dichloropropene	A	50.0	54	0.5083854	0.5507967		8.3	20
1,1,2-Trichloroethane	A	50.0	41	0.3740107	0.3097113		-17.2	20
Tetrachloroethene	A	50.0	48	0.3722038	0.3546183		-4.7	20
Dibromochloromethane	A	50.0	48	0.4527415	0.4375965		-3.3	20
1,2-Dibromoethane	A	50.0	47	0.3921782	0.3648482		-7.0	20
Chlorobenzene	A	50.0	41	1.350359	1.106062	0.3	-18.1	20
Ethylbenzene	A	50.0	54	0.5406848	0.5866478		8.5	20
m,p-Xylenes	A	100	95	0.7486103	0.7140803		-4.6	20
o-Xylene	A	50.0	49	0.66083	0.644384		-2.5	20
Bromoform	A	50.0	44	0.3020733	0.2669163	0.1	-11.6	20
Styrene	A	50.0	50	1.117766	1.121707		0.4	20
Isopropylbenzene	A	50.0	51	1.752245	1.804189		3.0	20
1,1,2,2-Tetrachloroethane	A	50.0	47	0.4845003	0.4512573	0.3	-6.9	20
1,2,4-Trichlorobenzene	A	50.0	47	1.080609	1.007924		-6.7	20
1,3-Dichlorobenzene	A	50.0	41	1.997949	1.626876		-18.6	20
1,4-Dichlorobenzene	A	50.0	43	1.986849	1.716595		-13.6	20
1,2-Dichlorobenzene	A	50.0	41	1.780781	1.463815		-17.8	20
1,2-Dibromo-3-chloropropane	A	50.0	44	0.1158369	0.1016406		-12.3	20
1,2,3-Trichlorobenzene	A	50.0	43	0.937078	0.814525		-13.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA22782		
Calibration:	1301050	Instrument:	OVGCMS2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3A0082	8260 BFB Tuning solution	AA22782-TUN1	2AJ001.D	01/15/13 13:23
A3A0031	8260 Calibration 1 ppb	AA22782-CAL1	2AJ003.D	01/15/13 14:34
A3A0032	8260 Calibration 5 ppb	AA22782-CAL2	2AJ004.D	01/15/13 15:05
A3A0033	8260 Calibration 20 ppb	AA22782-CAL3	2AJ005.D	01/15/13 15:37
A3A0034	8260 Calibration 50 ppb	AA22782-CAL4	2AJ006.D	01/15/13 16:08
A3A0035	8260 Calibration 100 ppb	AA22782-CAL5	2AJ007.D	01/15/13 16:39
A3A0036	8260 Calibration 200 ppb	AA22782-CAL6	2AJ008.D	01/15/13 17:10
A3A0037	8260 Calibration 400 ppb	AA22782-CAL7	2AJ009.D	01/15/13 17:41
A3A0038	8260 scv working 50 ppb	AA22782-SCV1	2AJ012.D	01/15/13 19:14
A3A0039	8260 scv working 100 ppb	AA22782-SCV2	2AJ013.D	01/15/13 19:45

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24402		
Calibration:	1306004	Instrument:	OVGCMS2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3E0210	8260 BFB Tuning solution	AA24402-TUN1	2F3001.D	06/03/13 12:31
A3F0012	8260 Calibration 5 ppb	AA24402-CAL2	2F3004.D	06/03/13 14:09
A3F0014	8260 Calibration 50 ppb	AA24402-CAL4	2F3006.D	06/03/13 15:17
A3F0015	8260 Calibration 100 ppb	AA24402-CAL5	2F3007.D	06/03/13 15:51
A3F0017	8260 Calibration 200 ppb	AA24402-CAL6	2F3008.D	06/03/13 16:25
A3F0018	8260 Calibration 400 ppb	AA24402-CAL7	2F3009.D	06/03/13 16:59
A3F0011	8260 Calibration 1 ppb	AA24402-CAL1	2F3011.D	06/03/13 18:07
A3F0013	8260 Calibration 20 ppb	AA24402-CAL3	2F3012.D	06/03/13 18:40
A3F0020	8260 scv working 100 ppb	AA24402-SCV2	2F3014.D	06/03/13 19:46
A3E0210	8260 BFB Tuning solution	AA24402-TUN2	2F4001.D	06/04/13 13:09
A3F0019	8260 scv working 50 ppb	AA24402-SCV1	2F4003.D	06/04/13 14:17

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24527		
Calibration:	1306033	Instrument:	OVGCMS3

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3E0210	8260 BFB Tuning solution	AA24527-TUN1	3FH001.D	06/13/13 09:36
A3F0199	8260 Calibration 20 ppb	AA24527-CAL3	3FH005.D	06/13/13 11:44
A3F0200	8260 Calibration 50 ppb	AA24527-CAL4	3FH006.D	06/13/13 12:14
A3F0201	8260 Calibration 100 ppb	AA24527-CAL5	3FH007.D	06/13/13 12:44
A3F0202	8260 Calibration 200 ppb	AA24527-CAL6	3FH008.D	06/13/13 13:14
A3F0203	8260 Calibration 400 ppb	AA24527-CAL7	3FH009.D	06/13/13 13:45
A3F0197	8260 Calibration 1 ppb	AA24527-CAL1	3FH012.D	06/13/13 15:16
A3F0198	8260 Calibration 5 ppb	AA24527-CAL2	3FH013.D	06/13/13 15:46
A3F0204	8260 scv working 50 ppb	AA24527-SCV1	3FH014.D	06/13/13 16:39
A3F0205	8260 scv working 100 ppb	AA24527-SCV2	3FH015.D	06/13/13 17:09

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Instrument: OVGCMS2

Matrix: Water

Calibration Date: 01/15/13 15:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	1	0.8490498	5	0.855146	20	0.8887596	50	0.8462256	100	0.8690391	200	0.789447
Chloromethane	1	1.257441	5	1.159237	20	1.031247	50	0.9817878	100	1.038998	200	0.9372289
Vinyl chloride	1	1.270528	5	1.083319	20	1.066441	50	0.9878433	100	1.041303	200	0.9123479
Bromomethane	1	0.5097734	5	0.5078233	20	0.4142245	50	0.4117647	100	0.368914	200	~~0.2110798~~
Chloroethane	1	0.4204148	5	0.4366629	20	0.3550933	50	0.3565873	100	0.3135937	200	~~0.1294982~~
Trichlorofluoromethane	1	0.802796	5	0.8191479	20	0.8205581	50	0.7910346	100	0.8626794	200	0.7253933
Acetone	1	~~0.6159813~~	5	0.2561902	20	0.2181312	50	0.1991988	100	0.2102385	200	0.1913076
1,1-Dichloroethene	1	0.3088495	5	0.2883546	20	0.278652	50	0.267185	100	0.2942355	200	0.3243295
Carbon disulfide	1	2.06539	5	1.752077	20	1.637986	50	1.546908	100	1.526361	200	1.427069
Methylene chloride	1	0.6516839	5	0.5839104	20	0.5139505	50	0.497613	100	0.5467252	200	0.5823429
Methyl-tert-Butyl Ether	1	1.079746	5	1.003052	20	0.9231715	50	0.9110815	100	1.210948	200	1.304373
trans-1,2-Dichloroethene	1	0.4778333	5	0.5402449	20	0.5027764	50	0.4801914	100	0.5335073	200	0.5630471
cis-1,2-Dichloroethene	1	0.5108776	5	0.5539803	20	0.5117324	50	0.4929769	100	0.5455319	200	0.5836562
1,1-Dichloroethane	1	1.002166	5	1.03062	20	0.933213	50	0.8828199	100	0.9853737	200	1.028569
2-Butanone	1	~~7.811209E-02~~	5	5.352699E-02	20	5.313197E-02	50	5.571647E-02	100	5.642099E-02	200	5.412895E-02
Chloroform	1	0.8847524	5	0.9026291	20	0.8149976	50	0.7900798	100	0.8545192	200	0.8945133
Bromochloromethane	1	0.3105262	5	0.283677	20	0.2761218	50	0.2588506	100	0.2770172	200	0.2786137
1,1,1-Trichloroethane	1	0.6459175	5	0.6396476	20	0.6353369	50	0.5954739	100	0.6766648	200	0.7403257
Carbon tetrachloride	1	0.3228463	5	0.3431674	20	0.3421897	50	0.3376704	100	0.3854494	200	0.4457946
1,2-Dichloroethane	1	0.4347234	5	0.416758	20	0.3694474	50	0.3697847	100	0.4349325	200	0.511014
Benzene	1	1.065462	5	1.190944	20	1.05517	50	1.017117	100	1.107083	200	1.206689
Trichloroethene	1	0.3317935	5	0.3385016	20	0.3156415	50	0.3000328	100	0.3411436	200	0.3697172
1,2-Dichloropropane	1	0.3483918	5	0.3581936	20	0.3139926	50	0.3139086	100	0.3482252	200	0.3833441
Bromodichloromethane	1	0.4375397	5	0.4174387	20	0.3685015	50	0.3650319	100	0.4246829	200	0.4847033
4-Methyl-2-pentanone	1	3.611273E-02	5	4.663881E-02	20	4.504034E-02	50	4.464767E-02	100	4.725448E-02	200	4.986234E-02
2-Hexanone	1	0.3617254	5	0.3315897	20	0.2939173	50	0.2954305	100	0.3077873	200	0.3131586
cis-1,3-Dichloropropene	1	0.5745637	5	0.552252	20	0.5014375	50	0.4996532	100	0.5706654	200	0.6486561
Toluene	1	0.9329566	5	0.8575729	20	0.781507	50	0.7576686	100	0.8679233	200	0.9197807
trans-1,3-Dichloropropene	1	0.602329	5	0.5137256	20	0.4700872	50	0.4550658	100	0.5225374	200	0.572182
1,1,2-Trichloroethane	1	0.3289834	5	0.2773416	20	0.2533471	50	0.2527435	100	0.2981987	200	0.329144
Tetrachloroethene	1	0.26049	5	0.2919527	20	0.2765467	50	0.2553069	100	0.2934654	200	0.3199887

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Instrument: OVGCMS2

Matrix: Water

Calibration Date: 01/15/13 15:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dibromochloromethane	1	0.4689	5	0.3715974	20	0.3501627	50	0.3397271	100	0.4149585	200	0.4646424
1,2-Dibromoethane	1	0.3366668	5	0.3152984	20	0.2975109	50	0.2925742	100	0.3462485	200	0.3904317
Chlorobenzene	1	1.161128	5	0.9928947	20	0.9099196	50	0.8689337	100	0.9806622	200	1.019091
Ethylbenzene	1	0.5208006	5	0.4783533	20	0.4395926	50	0.4299148	100	0.4904262	200	0.5230907
m,p-Xylenes	2	0.6713903	10	0.60435	40	0.5697361	100	0.544381	200	0.5916797	400	0.5770122
o-Xylene	1	0.6623914	5	0.6416763	20	0.5770765	50	0.5486515	100	0.6338912	200	0.6754383
Bromoform	1	0.2467076	5	0.2126617	20	0.216784	50	0.2131891	100	0.2670359	200	0.2957915
Styrene	1	1.187946	5	1.034645	20	0.9481771	50	0.9286913	100	1.064044	200	1.114671
Isopropylbenzene	1	1.67595	5	1.587526	20	1.435995	50	1.388468	100	1.578163	200	1.608045
1,1,2,2-Tetrachloroethane	1	0.4197199	5	0.3609173	20	0.3380535	50	0.3193147	100	0.3920713	200	0.3977069
1,2,4-Trichlorobenzene	1	1.09781	5	0.8698252	20	0.7862191	50	0.7915084	100	0.9253436	200	1.038062
1,3-Dichlorobenzene	1	2.080241	5	1.661504	20	1.426244	50	1.437651	100	1.609868	200	1.679457
1,4-Dichlorobenzene	1	1.955181	5	1.538043	20	1.358967	50	1.375158	100	1.554201	200	1.612219
1,2-Dichlorobenzene	1	1.807468	5	1.515902	20	1.343357	50	1.340229	100	1.511684	200	1.587205
1,2-Dibromo-3-chloropropane	1	0.1381647	5	0.1226517	20	0.1008618	50	0.1048344	100	0.1287253	200	0.1415389
1,2,3-Trichlorobenzene	1	0.821217	5	0.7962392	20	0.6843962	50	0.7006195	100	0.8253239	200	0.9228583
Dibromofluoromethane	1	~~0.9824129~~	5	0.7401996	20	0.6739646	50	0.5032745	100	0.625521	200	0.6262468
Toluene-d8	1	~~1.819543~~	5	1.446638	20	1.250154	50	0.9898653	100	1.178207	200	1.213069
4-Bromofluorobenzene	1	~~1.273211~~	5	0.6904216	20	0.5654014	50	0.4572856	100	0.5486857	200	0.6026504
Dichlorodifluoromethane	1	0.8490498	5	0.855146	20	0.8887596	50	0.8462256	100	0.8690391	200	0.789447
Chloromethane	1	1.257441	5	1.159237	20	1.031247	50	0.9817878	100	1.038998	200	0.9372289
Vinyl chloride	1	1.270528	5	1.083319	20	1.066441	50	0.9878433	100	1.041303	200	0.9123479
Bromomethane	1	0.5097734	5	0.5078233	20	0.4142245	50	0.4117647	100	0.368914	200	~~0.2110798~~
Chloroethane	1	0.4204148	5	0.4366629	20	0.3550933	50	0.3565873	100	0.3135937	200	~~0.1294982~~
Trichlorofluoromethane	1	0.802796	5	0.8191479	20	0.8205581	50	0.7910346	100	0.8626794	200	0.7253933
Freon 113	1	0.3613195	5	0.3687817	20	0.381345	50	0.3697621	100	0.3813232	200	0.4160281
Acetone	1	~~0.6159813~~	5	0.2561902	20	0.2181312	50	0.1991988	100	0.2102385	200	0.1913076
1,1-Dichloroethene	1	0.3088495	5	0.2883546	20	0.278652	50	0.267185	100	0.2942355	200	0.3243295
Carbon disulfide	1	2.06539	5	1.752077	20	1.637986	50	1.546908	100	1.526361	200	1.427069
Methylene Chloride	1	0.6516839	5	0.5839104	20	0.5139505	50	0.497613	100	0.5467252	200	0.5823429
Methyl-tert-Butyl Ether	1	1.079746	5	1.003052	20	0.9231715	50	0.9110815	100	1.210948	200	1.304373

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Instrument: OVGCMS2

Matrix: Water

Calibration Date: 01/15/13 15:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
trans-1,2-Dichloroethene	1	0.4778333	5	0.5402449	20	0.5027764	50	0.4801914	100	0.5335073	200	0.5630471
cis-1,2-Dichloroethene	1	0.5108776	5	0.5539803	20	0.5117324	50	0.4929769	100	0.5455319	200	0.5836562
1,1-Dichloroethane	1	1.002166	5	1.03062	20	0.933213	50	0.8828199	100	0.9853737	200	1.028569
2-Butanone	1	~~7.811209E-02~~	5	5.352699E-02	20	5.313197E-02	50	5.571647E-02	100	5.642099E-02	200	5.412895E-02
Chloroform	1	0.8847524	5	0.9026291	20	0.8149976	50	0.7900798	100	0.8545192	200	0.8945133
Bromochloromethane	1	0.3105262	5	0.283677	20	0.2761218	50	0.2588506	100	0.2770172	200	0.2786137
1,1,1-Trichloroethane	1	0.6459175	5	0.6396476	20	0.6353369	50	0.5954739	100	0.6766648	200	0.7403257
Methyl acetate	1	6.277595E-02	5	9.004752E-02	20	0.0690585	50	7.140637E-02	100	7.187419E-02	200	7.348335E-02
Cyclohexane	1	1.119211	5	1.021699	20	1.033959	50	0.9623364	100	0.9452675	200	0.9595405
Methyl cyclohexane	1	0.6026763	5	0.5330966	20	0.5084517	50	0.4849314	100	0.50057	200	0.5522417
Carbon Tetrachloride	1	0.3228463	5	0.3431674	20	0.3421897	50	0.3376704	100	0.3854494	200	0.4457946
1,2-Dichloroethane	1	0.4347234	5	0.416758	20	0.3694474	50	0.3697847	100	0.4349325	200	0.511014
Benzene	1	1.065462	5	1.190944	20	1.05517	50	1.017117	100	1.107083	200	1.206689
Trichloroethene	1	0.3317935	5	0.3385016	20	0.3156415	50	0.3000328	100	0.3411436	200	0.3697172
1,2-Dichloropropane	1	0.3483918	5	0.3581936	20	0.3139926	50	0.3139086	100	0.3482252	200	0.3833441
1,4-Dioxane	20	4.49976E-03	100	3.275798E-03	400	3.142038E-03	1000	3.372727E-03	2000	3.608726E-03	4000	4.061255E-03
Bromodichloromethane	1	0.4375397	5	0.4174387	20	0.3685015	50	0.3650319	100	0.4246829	200	0.4847033
4-Methyl-2-pentanone	1	3.611273E-02	5	4.663881E-02	20	4.504034E-02	50	4.464767E-02	100	4.725448E-02	200	4.986234E-02
2-Hexanone	1	0.3617254	5	0.3315897	20	0.2939173	50	0.2954305	100	0.3077873	200	0.3131586
cis-1,3-Dichloropropene	1	0.5745637	5	0.552252	20	0.5014375	50	0.4996532	100	0.5706654	200	0.6486561
Toluene	1	0.9329566	5	0.8575729	20	0.781507	50	0.7576686	100	0.8679233	200	0.9197807
trans-1,3-Dichloropropene	1	0.602329	5	0.5137256	20	0.4700872	50	0.4550658	100	0.5225374	200	0.572182
1,1,2-Trichloroethane	1	0.3289834	5	0.2773416	20	0.2533471	50	0.2527435	100	0.2981987	200	0.329144
Tetrachloroethene	1	0.26049	5	0.2919527	20	0.2765467	50	0.2553069	100	0.2934654	200	0.3199887
Dibromochloromethane	1	0.4689	5	0.3715974	20	0.3501627	50	0.3397271	100	0.4149585	200	0.4646424
1,2-Dibromoethane	1	0.3366668	5	0.3152984	20	0.2975109	50	0.2925742	100	0.3462485	200	0.3904317
Chlorobenzene	1	1.161128	5	0.9928947	20	0.9099196	50	0.8689337	100	0.9806622	200	1.019091
Ethylbenzene	1	0.5208006	5	0.4783533	20	0.4395926	50	0.4299148	100	0.4904262	200	0.5230907
m,p-Xylenes	2	0.6713903	10	0.60435	40	0.5697361	100	0.544381	200	0.5916797	400	0.5770122
o-Xylene	1	0.6623914	5	0.6416763	20	0.5770765	50	0.5486515	100	0.6338912	200	0.6754383
Bromoform	1	0.2467076	5	0.2126617	20	0.216784	50	0.2131891	100	0.2670359	200	0.2957915

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1301050	Instrument:	OVGCMS2
Matrix:	Water	Calibration Date:	01/15/13 15:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Styrene	1	1.187946	5	1.034645	20	0.9481771	50	0.9286913	100	1.064044	200	1.114671
Isopropylbenzene	1	1.67595	5	1.587526	20	1.435995	50	1.388468	100	1.578163	200	1.608045
1,1,2,2-Tetrachloroethane	1	0.4197199	5	0.3609173	20	0.3380535	50	0.3193147	100	0.3920713	200	0.3977069
1,2,4-Trichlorobenzene	1	1.09781	5	0.8698252	20	0.7862191	50	0.7915084	100	0.9253436	200	1.038062
1,3-Dichlorobenzene	1	2.080241	5	1.661504	20	1.426244	50	1.437651	100	1.609868	200	1.679457
1,4-Dichlorobenzene	1	1.955181	5	1.538043	20	1.358967	50	1.375158	100	1.554201	200	1.612219
1,2-Dichlorobenzene	1	1.807468	5	1.515902	20	1.343357	50	1.340229	100	1.511684	200	1.587205
1,2-Dibromo-3-chloropropane	1	0.1381647	5	0.1226517	20	0.1008618	50	0.1048344	100	0.1287253	200	0.1415389
1,2,3-Trichlorobenzene	1	0.821217	5	0.7962392	20	0.6843962	50	0.7006195	100	0.8253239	200	0.9228583
Dibromofluoromethane	1	~~0.9824129~~	5	0.7401996	20	0.6739646	50	0.5032745	100	0.625521	200	0.6262468
Toluene-d8	1	~~1.819543~~	5	1.446638	20	1.250154	50	0.9898653	100	1.178207	200	1.213069
4-Bromofluorobenzene	1	~~1.273211~~	5	0.6904216	20	0.5654014	50	0.4572856	100	0.5486857	200	0.6026504

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Instrument: OVGCMS2

Matrix: Water

Calibration Date: 01/15/13 15:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane												
Chloromethane												
Vinyl chloride												
Bromomethane												
Chloroethane												
Trichlorofluoromethane												
Acetone	400	0.1801393										
1,1-Dichloroethene												
Carbon disulfide	400	1.347642										
Methylene chloride												
Methyl-tert-Butyl Ether												
trans-1,2-Dichloroethene												
cis-1,2-Dichloroethene												
1,1-Dichloroethane												
2-Butanone	400	5.248191E-02										
Chloroform												
Bromochloromethane												
1,1,1-Trichloroethane												
Carbon tetrachloride												
1,2-Dichloroethane												
Benzene												
Trichloroethene												
1,2-Dichloropropane												
Bromodichloromethane												
4-Methyl-2-pentanone	400	4.185475E-02										
2-Hexanone	400	0.2586482										
cis-1,3-Dichloropropene												
Toluene												
trans-1,3-Dichloropropene												
1,1,2-Trichloroethane												
Tetrachloroethene												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Instrument: OVGCMS2

Matrix: Water

Calibration Date: 01/15/13 15:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dibromochloromethane												
1,2-Dibromoethane												
Chlorobenzene												
Ethylbenzene												
m,p-Xylenes												
o-Xylene												
Bromoform												
Styrene												
Isopropylbenzene												
1,1,2,2-Tetrachloroethane												
1,2,4-Trichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
1,2-Dichlorobenzene												
1,2-Dibromo-3-chloropropane												
1,2,3-Trichlorobenzene												
Dibromofluoromethane												
Toluene-d8												
4-Bromofluorobenzene												
Dichlorodifluoromethane												
Chloromethane												
Vinyl chloride												
Bromomethane												
Chloroethane												
Trichlorofluoromethane												
Freon 113												
Acetone	400	0.1801393										
1,1-Dichloroethene												
Carbon disulfide	400	1.347642										
Methylene Chloride												
Methyl-tert-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Instrument: OVGCMS2

Matrix: Water

Calibration Date: 01/15/13 15:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
trans-1,2-Dichloroethene												
cis-1,2-Dichloroethene												
1,1-Dichloroethane												
2-Butanone	400	5.248191E-02										
Chloroform												
Bromochloromethane												
1,1,1-Trichloroethane												
Methyl acetate												
Cyclohexane												
Methyl cyclohexane												
Carbon Tetrachloride												
1,2-Dichloroethane												
Benzene												
Trichloroethene												
1,2-Dichloropropane												
1,4-Dioxane	8000	3.220071E-03										
Bromodichloromethane												
4-Methyl-2-pentanone	400	4.185475E-02										
2-Hexanone	400	0.2586482										
cis-1,3-Dichloropropene												
Toluene												
trans-1,3-Dichloropropene												
1,1,2-Trichloroethane												
Tetrachloroethene												
Dibromochloromethane												
1,2-Dibromoethane												
Chlorobenzene												
Ethylbenzene												
m,p-Xylenes												
o-Xylene												
Bromoform												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1301050	Instrument:	OVGCMS2
Matrix:	Water	Calibration Date:	01/15/13 15:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Styrene												
Isopropylbenzene												
1,1,2,2-Tetrachloroethane												
1,2,4-Trichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
1,2-Dichlorobenzene												
1,2-Dibromo-3-chloropropane												
1,2,3-Trichlorobenzene												
Dibromofluoromethane												
Toluene-d8												
4-Bromofluorobenzene												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1301050	Instrument:	OVGCMS2
Matrix:	Water	Calibration Date:	01/15/13 15:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	0.8496112	3.929216	4.82	1.982149E-02			15	
Chloromethane	1.067657	11.15627	5.361667	7.494675E-02			SPCC (0.1)	
Vinyl chloride	1.060297	11.33831	5.6	9.358544E-03			CCC (30)	
Bromomethane	0.4425	14.27129	6.394	8.854902E-02			15	
Chloroethane	0.3764704	13.51824	6.662	0.307836			15	
Trichlorofluoromethane	0.8036015	5.646463	6.948333	0.3076174			15	
Acetone	0.2092009	12.74343	8.856667	6.106385E-02			15	
1,1-Dichloroethene	0.293601	7.023194	7.888333	5.220398E-02			CCC (30)	
Carbon disulfide	1.614776	14.77347	7.971429	0.1127383			15	
Methylene chloride	0.5627043	9.93348	8.776667	5.889523E-02			15	
Methyl-tert-Butyl Ether	1.072062	14.81698	9.135	9.222183E-02			15	
trans-1,2-Dichloroethene	0.5162667	6.721722	9.01	2.103123E-02			15	
cis-1,2-Dichloroethene	0.5331259	6.336935	10.435	0.0515232			15	
1,1-Dichloroethane	0.9771269	5.971833	9.815	5.611691E-02			SPCC (0.1)	
2-Butanone	5.423455E-02	2.829658	11.02	0.0180299			15	
Chloroform	0.8569152	5.349794	10.7	0.0142798			CCC (30)	
Bromochloromethane	0.2808011	5.990244	10.66167	0.0384352			15	
1,1,1-Trichloroethane	0.6555611	7.471737	10.97	1.272075E-02			15	
Carbon tetrachloride	0.362853	12.59262	10.895	5.049385E-02			15	
1,2-Dichloroethane	0.4227767	12.41043	11.54	1.049448E-02			15	
Benzene	1.107077	6.935291	11.34167	2.751916E-02			15	
Trichloroethene	0.332805	7.153759	11.88833	2.477113E-02			15	
1,2-Dichloropropane	0.3443427	7.783587	12.40667	4.645503E-02			CCC (30)	
Bromodichloromethane	0.4163163	10.80366	12.43	2.112051E-02			15	
4-Methyl-2-pentanone	0.0444873	9.992644	13.49286	3.175377E-02			15	
2-Hexanone	0.3088939	10.45344	14.2	1.667633E-02			15	
cis-1,3-Dichloropropene	0.5578713	9.912499	12.995	4.339252E-02			15	
Toluene	0.8529015	8.339488	13.21	1.574801E-02			CCC (30)	
trans-1,3-Dichloropropene	0.5226545	10.89487	13.55	1.485433E-02			15	
1,1,2-Trichloroethane	0.2899597	11.95766	13.71	1.782469E-02			15	
Tetrachloroethene	0.2829584	8.471626	13.57	0.0193462			15	
Dibromochloromethane	0.4016647	14.10827	13.89167	3.313386E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1301050	Instrument:	OVGCMS2
Matrix:	Water	Calibration Date:	01/15/13 15:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	0.3297884	11.04384	14.15	6.929054E-03			15	
Chlorobenzene	0.9887715	10.24294	14.57833	3.128237E-02			SPCC (0.3)	
Ethylbenzene	0.480363	8.208271	14.54	1.985362E-02			CCC (30)	
m,p-Xylenes	0.5930915	7.324713	14.66	1.997676E-02			15	
o-Xylene	0.6231875	7.992826	15.07	9.982669E-03			15	
Bromoform	0.2420283	14.15585	15.22	7.704704E-03			SPCC (0.1)	
Styrene	1.046362	9.426902	15.11667	3.301309E-02			15	
Isopropylbenzene	1.545691	7.111394	15.34167	2.034415E-02			15	
1,1,2,2-Tetrachloroethane	0.3712973	10.35338	15.81	1.085499E-02			SPCC (0.3)	
1,2,4-Trichlorobenzene	0.918128	13.98962	19.80667	2.225506E-02			15	
1,3-Dichlorobenzene	1.649161	14.42272	16.82167	2.038074E-02			15	
1,4-Dichlorobenzene	1.565628	13.81178	16.91167	2.082658E-02			15	
1,2-Dichlorobenzene	1.517641	11.44043	17.47	1.913191E-02			15	
1,2-Dibromo-3-chloropropane	0.1227961	13.7547	18.62	1.441412E-02			15	
1,2,3-Trichlorobenzene	0.7917757	11.15932	20.94167	1.103395E-02			15	
Dibromofluoromethane	0.6338413	13.6851	10.9	1.358744E-02			15	
Toluene-d8	1.215587	13.45056	13.166	3.840297E-02			15	
4-Bromofluorobenzene	0.5728889	14.78711	15.68	9.902446E-03			15	
Dichlorodifluoromethane	0.8496112	3.929216	4.82	1.982149E-02			15	
Chloromethane	1.067657	11.15627	5.361667	7.494675E-02			SPCC (0.1)	
Vinyl chloride	1.060297	11.33831	5.6	9.358544E-03			CCC (30)	
Bromomethane	0.4425	14.27129	6.394	8.854902E-02			15	
Chloroethane	0.3764704	13.51824	6.662	0.307836			15	
Trichlorofluoromethane	0.8036015	5.646463	6.948333	0.3076174			15	
Freon 113	0.3797599	5.107219	7.928333	9.641241E-02			15	
Acetone	0.2092009	12.74343	8.856667	6.106385E-02			15	
1,1-Dichloroethene	0.293601	7.023194	7.888333	5.220398E-02			CCC (30)	
Carbon disulfide	1.614776	14.77347	7.971429	0.1127383			15	
Methylene Chloride	0.5627043	9.93348	8.776667	5.889523E-02			15	
Methyl-tert-Butyl Ether	1.072062	14.81698	9.135	9.222183E-02			15	
trans-1,2-Dichloroethene	0.5162667	6.721722	9.01	2.103123E-02			15	
cis-1,2-Dichloroethene	0.5331259	6.336935	10.435	0.0515232			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration: 1301050
Instrument: OVGCMS2
Matrix: Water
Calibration Date: 01/15/13 15:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethane	0.9771269	5.971833	9.815	5.611691E-02			SPCC (0.1)	
2-Butanone	5.423455E-02	2.829658	11.02	0.0180299			15	
Chloroform	0.8569152	5.349794	10.7	0.0142798			CCC (30)	
Bromochloromethane	0.2808011	5.990244	10.66167	0.0384352			15	
1,1,1-Trichloroethane	0.6555611	7.471737	10.97	1.272075E-02			15	
Methyl acetate	7.310765E-02	12.4565	8.995	6.268881E-02			15	
Cyclohexane	1.007002	6.525821	10.68	1.424469E-02			15	
Methyl cyclohexane	0.5303279	8.065162	11.90667	4.311359E-02			15	
Carbon Tetrachloride	0.362853	12.59262	10.895	5.049385E-02			15	
1,2-Dichloroethane	0.4227767	12.41043	11.54	1.049448E-02			15	
Benzene	1.107077	6.935291	11.34167	2.751916E-02			15	
Trichloroethene	0.332805	7.153759	11.88833	2.477113E-02			15	
1,2-Dichloropropane	0.3443427	7.783587	12.40667	4.645503E-02			CCC (30)	
1,4-Dioxane	3.597196E-03	14.05262	12.60429	4.004709E-02			15	
Bromodichloromethane	0.4163163	10.80366	12.43	2.112051E-02			15	
4-Methyl-2-pentanone	0.0444873	9.992644	13.49286	3.175377E-02			15	
2-Hexanone	0.3088939	10.45344	14.2	1.667633E-02			15	
cis-1,3-Dichloropropene	0.5578713	9.912499	12.995	4.339252E-02			15	
Toluene	0.8529015	8.339488	13.21	1.574801E-02			CCC (30)	
trans-1,3-Dichloropropene	0.5226545	10.89487	13.55	1.485433E-02			15	
1,1,2-Trichloroethane	0.2899597	11.95766	13.71	1.782469E-02			15	
Tetrachloroethene	0.2829584	8.471626	13.57	0.0193462			15	
Dibromochloromethane	0.4016647	14.10827	13.89167	3.313386E-02			15	
1,2-Dibromoethane	0.3297884	11.04384	14.15	6.929054E-03			15	
Chlorobenzene	0.9887715	10.24294	14.57833	3.128237E-02			SPCC (0.3)	
Ethylbenzene	0.480363	8.208271	14.54	1.985362E-02			CCC (30)	
m,p-Xylenes	0.5930915	7.324713	14.66	1.997676E-02			15	
o-Xylene	0.6231875	7.992826	15.07	9.982669E-03			15	
Bromoform	0.2420283	14.15585	15.22	7.704704E-03			SPCC (0.1)	
Styrene	1.046362	9.426902	15.11667	3.301309E-02			15	
Isopropylbenzene	1.545691	7.111394	15.34167	2.034415E-02			15	
1,1,2,2-Tetrachloroethane	0.3712973	10.35338	15.81	1.085499E-02			SPCC (0.3)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1301050	Instrument:	OVGCMS2
Matrix:	Water	Calibration Date:	01/15/13 15:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2,4-Trichlorobenzene	0.918128	13.98962	19.80667	2.225506E-02			15	
1,3-Dichlorobenzene	1.649161	14.42272	16.82167	2.038074E-02			15	
1,4-Dichlorobenzene	1.565628	13.81178	16.91167	2.082658E-02			15	
1,2-Dichlorobenzene	1.517641	11.44043	17.47	1.913191E-02			15	
1,2-Dibromo-3-chloropropane	0.1227961	13.7547	18.62	1.441412E-02			15	
1,2,3-Trichlorobenzene	0.7917757	11.15932	20.94167	1.103395E-02			15	
Dibromofluoromethane	0.6338413	13.6851	10.9	1.358744E-02			15	
Toluene-d8	1.215587	13.45056	13.166	3.840297E-02			15	
4-Bromofluorobenzene	0.5728889	14.78711	15.68	9.902446E-03			15	

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	1	0.6209956	5	0.5903457	20	0.7556388	50	0.6943885	100	0.7382839	200	0.6904985
Chloromethane	1	0.8960832	5	0.7410628	20	0.866532	50	0.7338833	100	0.7890303	200	0.7544397
Vinyl chloride	1	0.7517673	5	0.7220805	20	0.7924294	50	0.7163076	100	0.7778261	200	0.70273
Bromomethane	1	0.2931324	5	0.2756647	20	0.3003093	50	0.2732703	100	0.2406668	200	~~0.139429~~
Chloroethane	1	0.3000955	5	0.3508853	20	0.3170095	50	0.2836285	100	0.2330938	200	~~0.1264015~~
Trichlorofluoromethane	1	0.6218024	5	0.5662989	20	0.7203137	50	0.636865	100	0.6408956	200	~~0.3323003~~
Acetone	1	~~0.5553126~~	5	0.3081323	20	0.2853729	50	0.2483585	100	0.2604958	200	0.2367156
1,1-Dichloroethene	1	0.3395393	5	0.3186415	20	0.3406747	50	0.327197	100	0.3063147	200	0.279677
Carbon disulfide	1	1.62297	5	1.515078	20	1.531132	50	1.404995	100	1.304161	200	1.211213
Methylene Chloride	1	0.6379365	5	0.5652846	20	0.5860706	50	0.575501	100	0.577871	200	0.5150026
Methyl-tert-Butyl Ether	1	1.744019	5	1.540885	20	1.620313	50	1.550569	100	1.565503	200	1.370429
trans-1,2-Dichloroethene	1	0.5434243	5	0.5448254	20	0.5498443	50	0.5464127	100	0.5314888	200	0.4690637
cis-1,2-Dichloroethene	1	0.6108056	5	0.5669628	20	0.5559854	50	0.5572059	100	0.5660603	200	0.4914715
1,1-Dichloroethane	1	1.081286	5	0.988407	20	1.007837	50	0.9764279	100	0.9727606	200	0.8605716
2-Butanone	1	9.268655E-02	5	7.162553E-02	20	7.653374E-02	50	7.414064E-02	100	7.502662E-02	200	7.421296E-02
Chloroform	1	0.9484343	5	0.8936447	20	0.926181	50	0.888249	100	0.8830238	200	0.767029
Bromochloromethane	1	0.3706613	5	0.3033065	20	0.2983224	50	0.2866376	100	0.2848288	200	0.2489043
1,1,1-Trichloroethane	1	0.6286381	5	0.678149	20	0.6984788	50	0.6763693	100	0.6936676	200	0.6186122
Carbon Tetrachloride	1	0.3656635	5	0.3907252	20	0.4162259	50	0.4221574	100	0.4346001	200	0.4008796
1,2-Dichloroethane	1	0.522017	5	0.4787657	20	0.514356	50	0.4928244	100	0.5259269	200	0.4983918
Benzene	1	1.464835	5	1.374338	20	1.272411	50	1.250773	100	1.252316	200	1.167481
Trichloroethene	1	0.3628955	5	0.3592879	20	0.3646786	50	0.3591647	100	0.3686124	200	0.3320938
1,2-Dichloropropane	1	0.3964198	5	0.3921849	20	0.3888309	50	0.3703856	100	0.394906	200	0.3641142
Bromodichloromethane	1	0.4518369	5	0.4795592	20	0.4810984	50	0.4706252	100	0.5120192	200	0.4751198
4-Methyl-2-pentanone	1	8.206319E-02	5	0.0603111	20	7.609663E-02	50	6.604575E-02	100	6.635628E-02	200	6.936312E-02
2-Hexanone	1	~~0.5756447~~	5	0.3985781	20	0.4743962	50	0.4264293	100	0.4270992	200	0.4318478
cis-1,3-Dichloropropene	1	0.623848	5	0.6319848	20	0.6632421	50	0.6384901	100	0.6915348	200	0.63895
Toluene	1	0.89184	5	1.007373	20	0.9085751	50	0.9323444	100	1.000417	200	0.8718538
trans-1,3-Dichloropropene	1	0.6635113	5	0.5909411	20	0.5915091	50	0.5987686	100	0.7005021	200	0.586062
1,1,2-Trichloroethane	1	0.3878595	5	0.3589271	20	0.3313465	50	0.3381261	100	0.4038461	200	0.3476827
Tetrachloroethene	1	0.310281	5	0.3489643	20	0.3159188	50	0.3276832	100	0.3429046	200	0.3018471

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Instrument: OVGCMS2

Matrix: Soil

Calibration Date: 06/03/13 14:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dibromochloromethane	1	0.4777703	5	0.4579346	20	0.4348652	50	0.4500033	100	0.5610608	200	0.4660669
1,2-Dibromoethane	1	0.4603735	5	0.4047272	20	0.392754	50	0.4043186	100	0.4821487	200	0.4203763
Chlorobenzene	1	1.164302	5	1.147974	20	1.045618	50	1.046461	100	1.140414	200	0.9559279
Ethylbenzene	1	0.5288425	5	0.5155298	20	0.4897505	50	0.5039948	100	0.5569873	200	0.4901078
m,p-Xylenes	2	0.6649255	10	0.6937367	40	0.6257389	100	0.640622	200	0.67894	400	0.5759999
o-Xylene	1	0.7354992	5	0.6740672	20	0.6182937	50	0.6532242	100	0.7358476	200	0.6439823
Bromoform	1	0.3654969	5	0.3319135	20	0.3317043	50	0.3508244	100	0.4777047	200	0.3582846
Styrene	1	0.9929979	5	0.953153	20	0.9909936	50	1.053671	100	1.265716	200	1.065399
Isopropylbenzene	1	1.701037	5	1.718591	20	1.586847	50	1.677055	100	1.84659	200	1.55547
1,1,2,2-Tetrachloroethane	1	0.6363145	5	0.5361908	20	0.5385951	50	0.5259761	100	0.6825115	200	0.5063369
1,2,4-Trichlorobenzene	1	1.366207	5	0.962553	20	1.073651	50	0.999006	100	1.229446	200	0.999807
1,3-Dichlorobenzene	1	2.136972	5	1.747974	20	1.798854	50	1.678188	100	1.923188	200	1.523753
1,4-Dichlorobenzene	1	2.107217	5	1.66353	20	1.766855	50	1.592013	100	1.883597	200	1.455823
1,2-Dichlorobenzene	1	1.862072	5	1.685867	20	1.769829	50	1.601074	100	1.992263	200	1.475954
1,2-Dibromo-3-chloropropane	1	0.2358076	5	0.2102087	20	0.2311801	50	0.1971655	100	0.2658949	200	0.2017275
1,2,3-Trichlorobenzene	1	1.152768	5	0.8686171	20	1.013171	50	0.9234331	100	1.115965	200	0.9282041
Dibromofluoromethane	1	~~1.277614~~	5	0.6222091	20	0.5421841	50	0.4351207	100	0.564298	200	0.4722257
Toluene-d8	1	~~2.841791~~	5	1.286028	20	1.23229	50	0.9850061	100	1.236031	200	1.106628
4-Bromofluorobenzene	1	~~1.656147~~	5	0.6682028	20	0.5380895	50	0.4556938	100	0.5917959	200	0.5332235
Dichlorodifluoromethane	1	0.6209956	5	0.5903457	20	0.7556388	50	0.6943885	100	0.7382839	200	0.6904985
Chloromethane	1	0.8960832	5	0.7410628	20	0.866532	50	0.7338833	100	0.7890303	200	0.7544397
Vinyl chloride	1	0.7517673	5	0.7220805	20	0.7924294	50	0.7163076	100	0.7778261	200	0.70273
Bromomethane	1	0.2931324	5	0.2756647	20	0.3003093	50	0.2732703	100	0.2406668	200	~~0.139429~~
Chloroethane	1	0.3000955	5	0.3508853	20	0.3170095	50	0.2836285	100	0.2330938	200	~~0.1264015~~
Trichlorofluoromethane	1	0.6218024	5	0.5662989	20	0.7203137	50	0.636865	100	0.6408956	200	~~0.3323003~~
Freon 113	1	0.355631	5	0.3793923	20	0.4294756	50	0.4028254	100	0.3914529	200	0.3493498
Acetone	1	~~0.5553126~~	5	0.3081323	20	0.2853729	50	0.2483585	100	0.2604958	200	0.2367156
1,1-Dichloroethene	1	0.3395393	5	0.3186415	20	0.3406747	50	0.327197	100	0.3063147	200	0.279677
Carbon disulfide	1	1.62297	5	1.515078	20	1.531132	50	1.404995	100	1.304161	200	1.211213
Methylene Chloride	1	0.6379365	5	0.5652846	20	0.5860706	50	0.575501	100	0.577871	200	0.5150026
Methyl-tert-Butyl Ether	1	1.744019	5	1.540885	20	1.620313	50	1.550569	100	1.565503	200	1.370429

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
trans-1,2-Dichloroethene	1	0.5434243	5	0.5448254	20	0.5498443	50	0.5464127	100	0.5314888	200	0.4690637
cis-1,2-Dichloroethene	1	0.6108056	5	0.5669628	20	0.5559854	50	0.5572059	100	0.5660603	200	0.4914715
1,1-Dichloroethane	1	1.081286	5	0.988407	20	1.007837	50	0.9764279	100	0.9727606	200	0.8605716
2-Butanone	1	9.268655E-02	5	7.162553E-02	20	7.653374E-02	50	7.414064E-02	100	7.502662E-02	200	7.421296E-02
Chloroform	1	0.9484343	5	0.8936447	20	0.926181	50	0.888249	100	0.8830238	200	0.767029
Bromochloromethane	1	0.3706613	5	0.3033065	20	0.2983224	50	0.2866376	100	0.2848288	200	0.2489043
1,1,1-Trichloroethane	1	0.6286381	5	0.678149	20	0.6984788	50	0.6763693	100	0.6936676	200	0.6186122
Methyl acetate	1	0.1183314	5	0.1198383	20	0.1178433	50	0.1077499	100	0.1106923	200	9.848239E-02
Cyclohexane	1	0.9097973	5	0.9451318	20	0.9812253	50	0.9615791	100	0.9252186	200	0.7930078
Methyl cyclohexane	1	0.7298452	5	0.5368237	20	0.5651003	50	0.5451	100	0.5639613	200	0.5120612
Carbon Tetrachloride	1	0.3656635	5	0.3907252	20	0.4162259	50	0.4221574	100	0.4346001	200	0.4008796
1,2-Dichloroethane	1	0.522017	5	0.4787657	20	0.514356	50	0.4928244	100	0.5259269	200	0.4983918
Benzene	1	1.464835	5	1.374338	20	1.272411	50	1.250773	100	1.252316	200	1.167481
Trichloroethene	1	0.3628955	5	0.3592879	20	0.3646786	50	0.3591647	100	0.3686124	200	0.3320938
1,2-Dichloropropane	1	0.3964198	5	0.3921849	20	0.3888309	50	0.3703856	100	0.394906	200	0.3641142
1,4-Dioxane	20	6.532901E-03	100	5.550981E-03	400	6.289369E-03	1000	5.31209E-03	2000	5.612919E-03	4000	6.133731E-03
Bromodichloromethane	1	0.4518369	5	0.4795592	20	0.4810984	50	0.4706252	100	0.5120192	200	0.4751198
4-Methyl-2-pentanone	1	8.206319E-02	5	0.0603111	20	7.609663E-02	50	6.604575E-02	100	6.635628E-02	200	6.936312E-02
2-Hexanone	1	~~0.5756447~~	5	0.3985781	20	0.4743962	50	0.4264293	100	0.4270992	200	0.4318478
cis-1,3-Dichloropropene	1	0.623848	5	0.6319848	20	0.6632421	50	0.6384901	100	0.6915348	200	0.63895
Toluene	1	0.89184	5	1.007373	20	0.9085751	50	0.9323444	100	1.000417	200	0.8718538
trans-1,3-Dichloropropene	1	0.6635113	5	0.5909411	20	0.5915091	50	0.5987686	100	0.7005021	200	0.586062
1,1,2-Trichloroethane	1	0.3878595	5	0.3589271	20	0.3313465	50	0.3381261	100	0.4038461	200	0.3476827
Tetrachloroethene	1	0.310281	5	0.3489643	20	0.3159188	50	0.3276832	100	0.3429046	200	0.3018471
Dibromochloromethane	1	0.4777703	5	0.4579346	20	0.4348652	50	0.4500033	100	0.5610608	200	0.4660669
1,2-Dibromoethane	1	0.4603735	5	0.4047272	20	0.392754	50	0.4043186	100	0.4821487	200	0.4203763
Chlorobenzene	1	1.164302	5	1.147974	20	1.045618	50	1.046461	100	1.140414	200	0.9559279
Ethylbenzene	1	0.5288425	5	0.5155298	20	0.4897505	50	0.5039948	100	0.5569873	200	0.4901078
m,p-Xylenes	2	0.6649255	10	0.6937367	40	0.6257389	100	0.640622	200	0.67894	400	0.5759999
o-Xylene	1	0.7354992	5	0.6740672	20	0.6182937	50	0.6532242	100	0.7358476	200	0.6439823
Bromoform	1	0.3654969	5	0.3319135	20	0.3317043	50	0.3508244	100	0.4777047	200	0.3582846

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Styrene	1	0.9929979	5	0.953153	20	0.9909936	50	1.053671	100	1.265716	200	1.065399
Isopropylbenzene	1	1.701037	5	1.718591	20	1.586847	50	1.677055	100	1.84659	200	1.55547
1,1,2,2-Tetrachloroethane	1	0.6363145	5	0.5361908	20	0.5385951	50	0.5259761	100	0.6825115	200	0.5063369
1,2,4-Trichlorobenzene	1	1.366207	5	0.962553	20	1.073651	50	0.999006	100	1.229446	200	0.999807
1,3-Dichlorobenzene	1	2.136972	5	1.747974	20	1.798854	50	1.678188	100	1.923188	200	1.523753
1,4-Dichlorobenzene	1	2.107217	5	1.66353	20	1.766855	50	1.592013	100	1.883597	200	1.455823
1,2-Dichlorobenzene	1	1.862072	5	1.685867	20	1.769829	50	1.601074	100	1.992263	200	1.475954
1,2-Dibromo-3-chloropropane	1	0.2358076	5	0.2102087	20	0.2311801	50	0.1971655	100	0.2658949	200	0.2017275
1,2,3-Trichlorobenzene	1	1.152768	5	0.8686171	20	1.013171	50	0.9234331	100	1.115965	200	0.9282041
Dibromofluoromethane	1	~~1.277614~~	5	0.6222091	20	0.5421841	50	0.4351207	100	0.564298	200	0.4722257
Toluene-d8	1	~~2.841791~~	5	1.286028	20	1.23229	50	0.9850061	100	1.236031	200	1.106628
4-Bromofluorobenzene	1	~~1.656147~~	5	0.6682028	20	0.5380895	50	0.4556938	100	0.5917959	200	0.5332235

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Instrument: OVGCMS2

Matrix: Soil

Calibration Date: 06/03/13 14:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane												
Chloromethane												
Vinyl chloride												
Bromomethane												
Chloroethane												
Trichlorofluoromethane												
Acetone	400	0.2127191										
1,1-Dichloroethene												
Carbon disulfide	400	1.176133										
Methylene Chloride												
Methyl-tert-Butyl Ether												
trans-1,2-Dichloroethene												
cis-1,2-Dichloroethene												
1,1-Dichloroethane												
2-Butanone	400	6.806898E-02										
Chloroform												
Bromochloromethane												
1,1,1-Trichloroethane												
Carbon Tetrachloride												
1,2-Dichloroethane												
Benzene												
Trichloroethene												
1,2-Dichloropropane												
Bromodichloromethane												
4-Methyl-2-pentanone	400	5.309239E-02										
2-Hexanone	400	0.3293942										
cis-1,3-Dichloropropene												
Toluene												
trans-1,3-Dichloropropene												
1,1,2-Trichloroethane												
Tetrachloroethene												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Instrument: OVGCMS2

Matrix: Soil

Calibration Date: 06/03/13 14:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dibromochloromethane												
1,2-Dibromoethane												
Chlorobenzene												
Ethylbenzene												
m,p-Xylenes												
o-Xylene												
Bromoform												
Styrene												
Isopropylbenzene												
1,1,2,2-Tetrachloroethane												
1,2,4-Trichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
1,2-Dichlorobenzene												
1,2-Dibromo-3-chloropropane												
1,2,3-Trichlorobenzene												
Dibromofluoromethane												
Toluene-d8												
4-Bromofluorobenzene												
Dichlorodifluoromethane												
Chloromethane												
Vinyl chloride												
Bromomethane												
Chloroethane												
Trichlorofluoromethane												
Freon 113												
Acetone	400	0.2127191										
1,1-Dichloroethene												
Carbon disulfide	400	1.176133										
Methylene Chloride												
Methyl-tert-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Instrument: OVGCMS2

Matrix: Soil

Calibration Date: 06/03/13 14:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
trans-1,2-Dichloroethene												
cis-1,2-Dichloroethene												
1,1-Dichloroethane												
2-Butanone	400	6.806898E-02										
Chloroform												
Bromochloromethane												
1,1,1-Trichloroethane												
Methyl acetate												
Cyclohexane												
Methyl cyclohexane												
Carbon Tetrachloride												
1,2-Dichloroethane												
Benzene												
Trichloroethene												
1,2-Dichloropropane												
1,4-Dioxane	8000	4.837585E-03										
Bromodichloromethane												
4-Methyl-2-pentanone	400	5.309239E-02										
2-Hexanone	400	0.3293942										
cis-1,3-Dichloropropene												
Toluene												
trans-1,3-Dichloropropene												
1,1,2-Trichloroethane												
Tetrachloroethene												
Dibromochloromethane												
1,2-Dibromoethane												
Chlorobenzene												
Ethylbenzene												
m,p-Xylenes												
o-Xylene												
Bromoform												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Styrene												
Isopropylbenzene												
1,1,2,2-Tetrachloroethane												
1,2,4-Trichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
1,2-Dichlorobenzene												
1,2-Dibromo-3-chloropropane												
1,2,3-Trichlorobenzene												
Dibromofluoromethane												
Toluene-d8												
4-Bromofluorobenzene												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	0.6816918	9.492748	4.848333	0.6313929			15	
Chloromethane	0.7968386	8.629085	5.385	0.1019368			SPCC (0.1)	
Vinyl chloride	0.7438568	4.84723	5.613333	9.128817E-02			CCC (30)	
Bromomethane	0.2766087	8.359301	6.408	6.801105E-02			15	
Chloroethane	0.2969425	14.65643	6.67	0.351181			15	
Trichlorofluoromethane	0.6372351	8.66156	6.958	0.3989843			15	
Acetone	0.2586324	13.23978	8.866666	5.649872E-02			15	
1,1-Dichloroethene	0.318674	7.245403	7.896667	0.1900746			CCC (30)	
Carbon disulfide	1.395097	12.23997	7.975714	0.1893469			15	
Methylene Chloride	0.5762777	6.843378	8.79	7.143079E-02			15	
Methyl-tert-Butyl Ether	1.565286	7.75919	9.143333	5.597861E-02			15	
trans-1,2-Dichloroethene	0.5308432	5.821135	9.016667	5.571062E-02			15	
cis-1,2-Dichloroethene	0.5580819	6.876794	10.44167	0.0399636			15	
1,1-Dichloroethane	0.981215	7.267273	9.823333	0.0541153			SPCC (0.1)	
2-Butanone	7.604215E-02	10.30385	11.02714	6.824606E-02			15	
Chloroform	0.884427	7.101547	10.71	8.830666E-03			CCC (30)	
Bromochloromethane	0.2987768	13.40237	10.67167	3.661301E-02			15	
1,1,1-Trichloroethane	0.6656525	5.079552	10.97167	3.456685E-02			15	
Carbon Tetrachloride	0.405042	6.112321	10.89833	3.594963E-02			15	
1,2-Dichloroethane	0.5053803	3.642429	11.54667	4.968243E-02			15	
Benzene	1.297026	8.134863	11.35	1.015135E-02			15	
Trichloroethene	0.3577888	3.655041	11.89167	2.410423E-02			15	
1,2-Dichloropropane	0.3844736	3.571923	12.41	2.198683E-02			CCC (30)	
Bromodichloromethane	0.4783765	4.091716	12.43167	3.743581E-02			15	
4-Methyl-2-pentanone	6.761835E-02	14.18557	13.49286	3.175377E-02			15	
2-Hexanone	0.4146241	11.65985	14.19833	3.357694E-02			15	
cis-1,3-Dichloropropene	0.6480083	3.867076	12.995	4.339252E-02			15	
Toluene	0.9354005	6.061075	13.215	4.088286E-02			CCC (30)	
trans-1,3-Dichloropropene	0.6218824	7.749013	13.55	1.485433E-02			15	
1,1,2-Trichloroethane	0.361298	7.965187	13.70833	2.326644E-02			15	
Tetrachloroethene	0.3245998	5.740846	13.57	0.0193462			15	
Dibromochloromethane	0.4746168	9.432	13.89333	3.992922E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	0.4274497	8.357544	14.15	6.929054E-03			15	
Chlorobenzene	1.083449	7.499084	14.57667	3.841174E-02			SPCC (0.3)	
Ethylbenzene	0.5142021	5.018291	14.54167	3.253205E-02			CCC (30)	
m,p-Xylenes	0.6466605	6.582268	14.66	1.997676E-02			15	
o-Xylene	0.676819	7.236878	15.07167	2.633941E-02			15	
Bromoform	0.3693214	14.85023	15.21333	3.354442E-02			SPCC (0.1)	
Styrene	1.053655	10.63764	15.115	3.513029E-02			15	
Isopropylbenzene	1.680932	6.175186	15.34167	2.034415E-02			15	
1,1,2,2-Tetrachloroethane	0.5709875	12.42621	15.805	0.0331745			SPCC (0.3)	
1,2,4-Trichlorobenzene	1.105112	14.43797	19.79667	2.882526E-02			15	
1,3-Dichlorobenzene	1.801488	11.71163	16.82	1.554992E-02			15	
1,4-Dichlorobenzene	1.744839	13.18307	16.91333	2.922446E-02			15	
1,2-Dichlorobenzene	1.731176	10.67972	17.46833	0.014314			15	
1,2-Dibromo-3-chloropropane	0.223664	11.57605	18.61167	4.185337E-02			15	
1,2,3-Trichlorobenzene	1.00036	11.41843	20.93333	2.191045E-02			15	
Dibromofluoromethane	0.5272075	14.1079	10.91	1.584113E-02			15	
Toluene-d8	1.169197	10.46969	13.166	3.840297E-02			15	
4-Bromofluorobenzene	0.5574011	14.11542	15.676	3.634556E-02			15	
Dichlorodifluoromethane	0.6816918	9.492748	4.848333	0.6313929			15	
Chloromethane	0.7968386	8.629085	5.385	0.1019368			SPCC (0.1)	
Vinyl chloride	0.7438568	4.84723	5.613333	9.128817E-02			CCC (30)	
Bromomethane	0.2766087	8.359301	6.408	6.801105E-02			15	
Chloroethane	0.2969425	14.65643	6.67	0.351181			15	
Trichlorofluoromethane	0.6372351	8.66156	6.958	0.3989843			15	
Freon 113	0.3846878	7.800087	7.941667	0.1853114			15	
Acetone	0.2586324	13.23978	8.866666	5.649872E-02			15	
1,1-Dichloroethene	0.318674	7.245403	7.896667	0.1900746			CCC (30)	
Carbon disulfide	1.395097	12.23997	7.975714	0.1893469			15	
Methylene Chloride	0.5762777	6.843378	8.79	7.143079E-02			15	
Methyl-tert-Butyl Ether	1.565286	7.75919	9.143333	5.597861E-02			15	
trans-1,2-Dichloroethene	0.5308432	5.821135	9.016667	5.571062E-02			15	
cis-1,2-Dichloroethene	0.5580819	6.876794	10.44167	0.0399636			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethane	0.981215	7.267273	9.823333	0.0541153			SPCC (0.1)	
2-Butanone	7.604215E-02	10.30385	11.02714	6.824606E-02			15	
Chloroform	0.884427	7.101547	10.71	8.830666E-03			CCC (30)	
Bromochloromethane	0.2987768	13.40237	10.67167	3.661301E-02			15	
1,1,1-Trichloroethane	0.6656525	5.079552	10.97167	3.456685E-02			15	
Methyl acetate	0.1121563	7.331022	9.006667	5.985443E-02			15	
Cyclohexane	0.9193266	7.274882	10.68333	5.023833E-02			15	
Methyl cyclohexane	0.575482	13.5735	11.91	1.421788E-02			15	
Carbon Tetrachloride	0.405042	6.112321	10.89833	3.594963E-02			15	
1,2-Dichloroethane	0.5053803	3.642429	11.54667	4.968243E-02			15	
Benzene	1.297026	8.134863	11.35	1.015135E-02			15	
Trichloroethene	0.3577888	3.655041	11.89167	2.410423E-02			15	
1,2-Dichloropropane	0.3844736	3.571923	12.41	2.198683E-02			CCC (30)	
1,4-Dioxane	5.752797E-03	10.36605	12.60429	6.014015E-02			15	
Bromodichloromethane	0.4783765	4.091716	12.43167	3.743581E-02			15	
4-Methyl-2-pentanone	6.761835E-02	14.18557	13.49286	3.175377E-02			15	
2-Hexanone	0.4146241	11.65985	14.19833	3.357694E-02			15	
cis-1,3-Dichloropropene	0.6480083	3.867076	12.995	4.339252E-02			15	
Toluene	0.9354005	6.061075	13.215	4.088286E-02			CCC (30)	
trans-1,3-Dichloropropene	0.6218824	7.749013	13.55	1.485433E-02			15	
1,1,2-Trichloroethane	0.361298	7.965187	13.70833	2.326644E-02			15	
Tetrachloroethene	0.3245998	5.740846	13.57	0.0193462			15	
Dibromochloromethane	0.4746168	9.432	13.89333	3.992922E-02			15	
1,2-Dibromoethane	0.4274497	8.357544	14.15	6.929054E-03			15	
Chlorobenzene	1.083449	7.499084	14.57667	3.841174E-02			SPCC (0.3)	
Ethylbenzene	0.5142021	5.018291	14.54167	3.253205E-02			CCC (30)	
m,p-Xylenes	0.6466605	6.582268	14.66	1.997676E-02			15	
o-Xylene	0.676819	7.236878	15.07167	2.633941E-02			15	
Bromoform	0.3693214	14.85023	15.21333	3.354442E-02			SPCC (0.1)	
Styrene	1.053655	10.63764	15.115	3.513029E-02			15	
Isopropylbenzene	1.680932	6.175186	15.34167	2.034415E-02			15	
1,1,2,2-Tetrachloroethane	0.5709875	12.42621	15.805	0.0331745			SPCC (0.3)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306004	Instrument:	OVGCMS2
Matrix:	Soil	Calibration Date:	06/03/13 14:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2,4-Trichlorobenzene	1.105112	14.43797	19.79667	2.882526E-02			15	
1,3-Dichlorobenzene	1.801488	11.71163	16.82	1.554992E-02			15	
1,4-Dichlorobenzene	1.744839	13.18307	16.91333	2.922446E-02			15	
1,2-Dichlorobenzene	1.731176	10.67972	17.46833	0.014314			15	
1,2-Dibromo-3-chloropropane	0.223664	11.57605	18.61167	4.185337E-02			15	
1,2,3-Trichlorobenzene	1.00036	11.41843	20.93333	2.191045E-02			15	
Dibromofluoromethane	0.5272075	14.1079	10.91	1.584113E-02			15	
Toluene-d8	1.169197	10.46969	13.166	3.840297E-02			15	
4-Bromofluorobenzene	0.5574011	14.11542	15.676	3.634556E-02			15	

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Instrument: OVGCMS3

Matrix: Water

Calibration Date: 06/13/13 09:02

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	1	1.139958	5	1.068732	20	1.07582	50	1.016993	100	1.021001	200	0.90166
Chloromethane	1	1.268325	5	1.08931	20	1.047574	50	1.02075	100	1.003288	200	0.9303672
Vinyl chloride	1	1.049517	5	1.10801	20	1.127779	50	1.146967	100	1.124172	200	0.983331
Bromomethane	1	0.8890677	5	0.7812305	20	0.7208994	50	0.6577584	100	0.63669	200	~~0.5421414~~
Chloroethane	1	0.6916353	5	0.6718213	20	0.6491401	50	0.5782416	100	0.5182691	200	~~0.1937248~~
Trichlorofluoromethane	1	1.407134	5	1.366897	20	1.442878	50	1.34827	100	1.244095	200	1.045815
Acetone	1	~~0.4600849~~	5	0.157698	20	0.1840182	50	0.1611608	100	0.1398028	200	0.1332901
1,1-Dichloroethene	1	0.8310104	5	0.7193617	20	0.7030696	50	0.6995782	100	0.6296013	200	0.5384987
Carbon disulfide	1	2.765599	5	2.768377	20	2.704089	50	2.593123	100	2.405736	200	2.1543
Methylene chloride	1	0.9687644	5	0.8563826	20	0.8057972	50	0.7599831	100	0.7268564	200	0.6635139
Methyl-tert-Butyl Ether	1	0.8207184	5	0.6930845	20	0.8211057	50	0.9464849	100	1.004032	200	0.9798963
trans-1,2-Dichloroethene	1	0.6451518	5	0.7133944	20	0.7036947	50	0.7448898	100	0.7188612	200	0.638618
cis-1,2-Dichloroethene	1	0.7318607	5	0.6313711	20	0.7277208	50	0.7740962	100	0.7785256	200	0.6893669
1,1-Dichloroethane	1	1.447661	5	1.288744	20	1.285525	50	1.251196	100	1.21999	200	1.049938
2-Butanone	1	~~0.0230344~~	5	0.0286852	20	3.328986E-02	50	4.145503E-02	100	4.216984E-02	200	4.089461E-02
Chloroform	1	1.467831	5	1.37487	20	1.313199	50	1.255547	100	1.205924	200	1.044237
Bromochloromethane	1	0.4775398	5	0.4063808	20	0.4110442	50	0.3931692	100	0.3849575	200	0.3473406
1,1,1-Trichloroethane	1	1.110439	5	1.060237	20	0.9942475	50	0.9853536	100	0.9334872	200	0.8192967
Carbon tetrachloride	1	0.6371046	5	0.5600753	20	0.5593084	50	0.5230343	100	0.5384362	200	0.4500803
1,2-Dichloroethane	1	0.5127193	5	0.5433601	20	0.501353	50	0.4736028	100	0.4844461	200	0.424678
Benzene	1	1.619707	5	1.627652	20	1.644544	50	1.535401	100	1.475331	200	1.184237
Trichloroethene	1	0.5903422	5	0.4732999	20	0.4554544	50	0.4419811	100	0.4450278	200	0.3912962
1,2-Dichloropropane	1	0.5160971	5	0.3910338	20	0.4062577	50	0.3848636	100	0.3992966	200	0.355297
Bromodichloromethane	1	0.6497822	5	0.5538919	20	0.5195829	50	0.5067473	100	0.5149027	200	0.4597555
4-Methyl-2-pentanone	1	~~1.546317E-02~~	5	3.395153E-02	20	3.023879E-02	50	3.057268E-02	100	3.552313E-02	200	3.680062E-02
2-Hexanone	1	~~0.1067946~~	5	0.1541741	20	0.1640945	50	0.1786328	100	0.1961663	200	0.194345
cis-1,3-Dichloropropene	1	0.4933739	5	0.4647516	20	0.5589635	50	0.6040268	100	0.6460059	200	0.5828916
Toluene	1	0.9628682	5	0.9681511	20	1.039957	50	1.078382	100	1.106569	200	0.8917306
trans-1,3-Dichloropropene	1	0.5384381	5	0.4452012	20	0.4935727	50	0.5229911	100	0.5619591	200	0.4881499
1,1,2-Trichloroethane	1	0.4430415	5	0.377593	20	0.3604914	50	0.3671631	100	0.3644888	200	0.3312864
Tetrachloroethene	1	0.3779287	5	0.3723673	20	0.3810787	50	0.3805962	100	0.3841674	200	0.3370848

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Instrument: OVGCMS3

Matrix: Water

Calibration Date: 06/13/13 09:02

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dibromochloromethane	1	0.4944109	5	0.4507474	20	0.4378452	50	0.4482682	100	0.4664912	200	0.4186859
1,2-Dibromoethane	1	0.4791884	5	0.3734892	20	0.3751946	50	0.3789319	100	0.3935977	200	0.3526671
Chlorobenzene	1	1.616336	5	1.469052	20	1.322522	50	1.318208	100	1.295059	200	1.080977
Ethylbenzene	1	0.501323	5	0.4253573	20	0.5446235	50	0.5992126	100	0.631648	200	0.5419444
m,p-Xylenes	2	0.7931069	10	0.765494	40	0.767733	100	0.7883297	200	0.7746645	400	0.6023337
o-Xylene	1	0.5218708	5	0.5703257	20	0.6925985	50	0.7217015	100	0.7837325	200	0.6747513
Bromoform	1	0.3874226	5	0.2853377	20	0.2717409	50	0.2884053	100	0.3017592	200	0.2777742
Styrene	1	0.870457	5	1.00593	20	1.17209	50	1.257421	100	1.297165	200	1.103531
Isopropylbenzene	1	1.4959	5	1.480252	20	1.866138	50	2.014997	100	1.903936	200	~~1.397689~~
1,1,2,2-Tetrachloroethane	1	0.6178321	5	0.4822908	20	0.4805836	50	0.4570049	100	0.4577679	200	0.4115224
1,2,4-Trichlorobenzene	1	1.053159	5	1.178481	20	0.9487763	50	1.053785	100	1.161831	200	1.08762
1,3-Dichlorobenzene	1	2.471119	5	1.897641	20	1.861067	50	1.925904	100	2.045148	200	1.786813
1,4-Dichlorobenzene	1	2.216027	5	2.193281	20	1.944977	50	1.945607	100	1.925563	200	1.695639
1,2-Dichlorobenzene	1	2.069747	5	1.628832	20	1.713029	50	1.768755	100	1.844923	200	1.659401
1,2-Dibromo-3-chloropropane	1	0.1206813	5	0.1265213	20	0.1052757	50	0.1071753	100	0.1213188	200	0.1140487
1,2,3-Trichlorobenzene	1	0.9766011	5	0.8456701	20	0.8121371	50	0.9319797	100	1.075212	200	0.9808677
Dibromofluoromethane	1	~~1.174453~~	5	0.8733522	20	0.8464014	50	0.6185967	100	0.8106775	200	0.7642945
Toluene-d8	1	~~1.360913~~	5	1.147948	20	1.359926	50	1.015904	100	1.432055	200	1.14576
4-Bromofluorobenzene	1	~~0.6979793~~	5	0.4877447	20	0.5467227	50	0.4206727	100	0.5849881	200	0.5679277
Dichlorodifluoromethane	1	1.139958	5	1.068732	20	1.07582	50	1.016993	100	1.021001	200	0.90166
Chloromethane	1	1.268325	5	1.08931	20	1.047574	50	1.02075	100	1.003288	200	0.9303672
Vinyl chloride	1	1.049517	5	1.10801	20	1.127779	50	1.146967	100	1.124172	200	0.983331
Bromomethane	1	0.8890677	5	0.7812305	20	0.7208994	50	0.6577584	100	0.63669	200	~~0.5421414~~
Chloroethane	1	0.6916353	5	0.6718213	20	0.6491401	50	0.5782416	100	0.5182691	200	~~0.1937248~~
Trichlorofluoromethane	1	1.407134	5	1.366897	20	1.442878	50	1.34827	100	1.244095	200	1.045815
Freon 113	1	0.9178324	5	1.006072	20	0.93886	50	0.9072873	100	0.8424372	200	0.7127638
Acetone	1	~~0.4600849~~	5	0.157698	20	0.1840182	50	0.1611608	100	0.1398028	200	0.1332901
1,1-Dichloroethene	1	0.8310104	5	0.7193617	20	0.7030696	50	0.6995782	100	0.6296013	200	0.5384987
Carbon disulfide	1	2.765599	5	2.768377	20	2.704089	50	2.593123	100	2.405736	200	2.1543
Methylene Chloride	1	0.9687644	5	0.8563826	20	0.8057972	50	0.7599831	100	0.7268564	200	0.6635139
Methyl-tert-Butyl Ether	1	0.8207184	5	0.6930845	20	0.8211057	50	0.9464849	100	1.004032	200	0.9798963

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Instrument: OVGCMS3

Matrix: Water

Calibration Date: 06/13/13 09:02

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
trans-1,2-Dichloroethene	1	0.6451518	5	0.7133944	20	0.7036947	50	0.7448898	100	0.7188612	200	0.638618
cis-1,2-Dichloroethene	1	0.7318607	5	0.6313711	20	0.7277208	50	0.7740962	100	0.7785256	200	0.6893669
1,1-Dichloroethane	1	1.447661	5	1.288744	20	1.285525	50	1.251196	100	1.21999	200	1.049938
2-Butanone	1	~~0.0230344~~	5	0.0286852	20	3.328986E-02	50	4.145503E-02	100	4.216984E-02	200	4.089461E-02
Chloroform	1	1.467831	5	1.37487	20	1.313199	50	1.255547	100	1.205924	200	1.044237
Bromochloromethane	1	0.4775398	5	0.4063808	20	0.4110442	50	0.3931692	100	0.3849575	200	0.3473406
1,1,1-Trichloroethane	1	1.110439	5	1.060237	20	0.9942475	50	0.9853536	100	0.9334872	200	0.8192967
Methyl acetate	1	8.750057E-02	5	7.218616E-02	20	7.978417E-02	50	7.707265E-02	100	7.914457E-02	200	7.199429E-02
Cyclohexane	1	1.046614	5	0.8552174	20	1.189592	50	1.217969	100	1.180433	200	0.9993942
Methyl cyclohexane	1	0.7503696	5	0.6070124	20	0.6365197	50	0.5973685	100	0.588771	200	0.5022963
Carbon Tetrachloride	1	0.6371046	5	0.5600753	20	0.5593084	50	0.5230343	100	0.5384362	200	0.4500803
1,2-Dichloroethane	1	0.5127193	5	0.5433601	20	0.501353	50	0.4736028	100	0.4844461	200	0.424678
Benzene	1	1.619707	5	1.627652	20	1.644544	50	1.535401	100	1.475331	200	1.184237
Trichloroethene	1	0.5903422	5	0.4732999	20	0.4554544	50	0.4419811	100	0.4450278	200	0.3912962
1,2-Dichloropropane	1	0.5160971	5	0.3910338	20	0.4062577	50	0.3848636	100	0.3992966	200	0.355297
1,4-Dioxane	20	2.016792E-03	100	2.282225E-03	400	2.312076E-03	1000	2.16799E-03	2000	2.634522E-03	4000	2.890987E-03
Bromodichloromethane	1	0.6497822	5	0.5538919	20	0.5195829	50	0.5067473	100	0.5149027	200	0.4597555
4-Methyl-2-pentanone	1	~~1.546317E-02~~	5	3.395153E-02	20	3.023879E-02	50	3.057268E-02	100	3.552313E-02	200	3.680062E-02
2-Hexanone	1	~~0.1067946~~	5	0.1541741	20	0.1640945	50	0.1786328	100	0.1961663	200	0.194345
cis-1,3-Dichloropropene	1	0.4933739	5	0.4647516	20	0.5589635	50	0.6040268	100	0.6460059	200	0.5828916
Toluene	1	0.9628682	5	0.9681511	20	1.039957	50	1.078382	100	1.106569	200	0.8917306
trans-1,3-Dichloropropene	1	0.5384381	5	0.4452012	20	0.4935727	50	0.5229911	100	0.5619591	200	0.4881499
1,1,2-Trichloroethane	1	0.4430415	5	0.377593	20	0.3604914	50	0.3671631	100	0.3644888	200	0.3312864
Tetrachloroethene	1	0.3779287	5	0.3723673	20	0.3810787	50	0.3805962	100	0.3841674	200	0.3370848
Dibromochloromethane	1	0.4944109	5	0.4507474	20	0.4378452	50	0.4482682	100	0.4664912	200	0.4186859
1,2-Dibromoethane	1	0.4791884	5	0.3734892	20	0.3751946	50	0.3789319	100	0.3935977	200	0.3526671
Chlorobenzene	1	1.616336	5	1.469052	20	1.322522	50	1.318208	100	1.295059	200	1.080977
Ethylbenzene	1	0.501323	5	0.4253573	20	0.5446235	50	0.5992126	100	0.631648	200	0.5419444
m,p-Xylenes	2	0.7931069	10	0.765494	40	0.767733	100	0.7883297	200	0.7746645	400	0.6023337
o-Xylene	1	0.5218708	5	0.5703257	20	0.6925985	50	0.7217015	100	0.7837325	200	0.6747513
Bromoform	1	0.3874226	5	0.2853377	20	0.2717409	50	0.2884053	100	0.3017592	200	0.2777742

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306033	Instrument:	OVGCMS3
Matrix:	Water	Calibration Date:	06/13/13 09:02

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Styrene	1	0.870457	5	1.00593	20	1.17209	50	1.257421	100	1.297165	200	1.103531
Isopropylbenzene	1	1.4959	5	1.480252	20	1.866138	50	2.014997	100	1.903936	200	~~1.397689~~
1,1,2,2-Tetrachloroethane	1	0.6178321	5	0.4822908	20	0.4805836	50	0.4570049	100	0.4577679	200	0.4115224
1,2,4-Trichlorobenzene	1	1.053159	5	1.178481	20	0.9487763	50	1.053785	100	1.161831	200	1.08762
1,3-Dichlorobenzene	1	2.471119	5	1.897641	20	1.861067	50	1.925904	100	2.045148	200	1.786813
1,4-Dichlorobenzene	1	2.216027	5	2.193281	20	1.944977	50	1.945607	100	1.925563	200	1.695639
1,2-Dichlorobenzene	1	2.069747	5	1.628832	20	1.713029	50	1.768755	100	1.844923	200	1.659401
1,2-Dibromo-3-chloropropane	1	0.1206813	5	0.1265213	20	0.1052757	50	0.1071753	100	0.1213188	200	0.1140487
1,2,3-Trichlorobenzene	1	0.9766011	5	0.8456701	20	0.8121371	50	0.9319797	100	1.075212	200	0.9808677
Dibromofluoromethane	1	~~1.174453~~	5	0.8733522	20	0.8464014	50	0.6185967	100	0.8106775	200	0.7642945
Toluene-d8	1	~~1.360913~~	5	1.147948	20	1.359926	50	1.015904	100	1.432055	200	1.14576
4-Bromofluorobenzene	1	~~0.6979793~~	5	0.4877447	20	0.5467227	50	0.4206727	100	0.5849881	200	0.5679277

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Instrument: OVGCMS3

Matrix: Water

Calibration Date: 06/13/13 09:02

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane												
Chloromethane												
Vinyl chloride												
Bromomethane												
Chloroethane												
Trichlorofluoromethane												
Acetone	400	0.1223256										
1,1-Dichloroethene												
Carbon disulfide	400	~~1.576278~~										
Methylene chloride												
Methyl-tert-Butyl Ether												
trans-1,2-Dichloroethene												
cis-1,2-Dichloroethene												
1,1-Dichloroethane												
2-Butanone	400	4.094506E-02										
Chloroform												
Bromochloromethane												
1,1,1-Trichloroethane												
Carbon tetrachloride												
1,2-Dichloroethane												
Benzene												
Trichloroethene												
1,2-Dichloropropane												
Bromodichloromethane												
4-Methyl-2-pentanone	400	3.425252E-02										
2-Hexanone	400	0.1775348										
cis-1,3-Dichloropropene												
Toluene												
trans-1,3-Dichloropropene												
1,1,2-Trichloroethane												
Tetrachloroethene												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Instrument: OVGCMS3

Matrix: Water

Calibration Date: 06/13/13 09:02

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dibromochloromethane												
1,2-Dibromoethane												
Chlorobenzene												
Ethylbenzene												
m,p-Xylenes												
o-Xylene												
Bromoform												
Styrene												
Isopropylbenzene												
1,1,2,2-Tetrachloroethane												
1,2,4-Trichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
1,2-Dichlorobenzene												
1,2-Dibromo-3-chloropropane												
1,2,3-Trichlorobenzene												
Dibromofluoromethane												
Toluene-d8												
4-Bromofluorobenzene												
Dichlorodifluoromethane												
Chloromethane												
Vinyl chloride												
Bromomethane												
Chloroethane												
Trichlorofluoromethane												
Freon 113												
Acetone	400	0.1223256										
1,1-Dichloroethene												
Carbon disulfide	400	~~1.576278~~										
Methylene Chloride												
Methyl-tert-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Instrument: OVGCMS3

Matrix: Water

Calibration Date: 06/13/13 09:02

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
trans-1,2-Dichloroethene												
cis-1,2-Dichloroethene												
1,1-Dichloroethane												
2-Butanone	400	4.094506E-02										
Chloroform												
Bromochloromethane												
1,1,1-Trichloroethane												
Methyl acetate												
Cyclohexane												
Methyl cyclohexane												
Carbon Tetrachloride												
1,2-Dichloroethane												
Benzene												
Trichloroethene												
1,2-Dichloropropane												
1,4-Dioxane	8000	2.634555E-03										
Bromodichloromethane												
4-Methyl-2-pentanone	400	3.425252E-02										
2-Hexanone	400	0.1775348										
cis-1,3-Dichloropropene												
Toluene												
trans-1,3-Dichloropropene												
1,1,2-Trichloroethane												
Tetrachloroethene												
Dibromochloromethane												
1,2-Dibromoethane												
Chlorobenzene												
Ethylbenzene												
m,p-Xylenes												
o-Xylene												
Bromoform												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306033	Instrument:	OVGCMS3
Matrix:	Water	Calibration Date:	06/13/13 09:02

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Styrene												
Isopropylbenzene												
1,1,2,2-Tetrachloroethane												
1,2,4-Trichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
1,2-Dichlorobenzene												
1,2-Dibromo-3-chloropropane												
1,2,3-Trichlorobenzene												
Dibromofluoromethane												
Toluene-d8												
4-Bromofluorobenzene												

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306033	Instrument:	OVGCMS3
Matrix:	Water	Calibration Date:	06/13/13 09:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	1.037361	7.722307	4.976667	0.1025787			15	
Chloromethane	1.059936	10.83734	5.53	9.309682E-03			SPCC (0.1)	
Vinyl chloride	1.089963	5.682593	5.77	1.049448E-02			CCC (30)	
Bromomethane	0.7371292	13.84833	6.57	0.1071423			15	
Chloroethane	0.6218215	11.58072	6.844	0.2214391			15	
Trichlorofluoromethane	1.309182	11.11777	7.123333	0.2612718			15	
Acetone	0.1497159	14.90447	9.038333	3.957867E-02			15	
1,1-Dichloroethene	0.6868533	14.19794	8.063334	6.411571E-02			CCC (30)	
Carbon disulfide	2.565204	9.481482	8.153333	6.094817E-02			15	
Methylene chloride	0.7968829	13.42387	8.968334	0.0484919			15	
Methyl-tert-Butyl Ether	0.8775536	13.64279	9.308334	0.0823294			15	
trans-1,2-Dichloroethene	0.6941017	6.156847	9.19	7.001499E-02			15	
cis-1,2-Dichloroethene	0.7221569	7.664391	10.61333	4.800984E-02			15	
1,1-Dichloroethane	1.257176	10.21449	9.995	5.434835E-02			SPCC (0.1)	
2-Butanone	0.0379066	14.70117	11.19667	4.432301E-02			15	
Chloroform	1.276935	11.45592	10.88167	4.060685E-02			CCC (30)	
Bromochloromethane	0.4034054	10.6052	10.845	5.034445E-02			15	
1,1,1-Trichloroethane	0.9838435	10.324	11.14333	4.853326E-02			15	
Carbon tetrachloride	0.5446732	11.1526	11.07	1.358978E-02			15	
1,2-Dichloroethane	0.4900266	8.192874	11.72	2.548976E-02			15	
Benzene	1.514479	11.50609	11.52	2.534572E-02			15	
Trichloroethene	0.4662336	14.29909	12.06833	3.039692E-02			15	
1,2-Dichloropropane	0.4088076	13.55816	12.58333	3.759501E-02			CCC (30)	
Bromodichloromethane	0.5341104	12.02595	12.60333	3.905849E-02			15	
4-Methyl-2-pentanone	3.355655E-02	7.878012	13.66667	0.0346149			15	
2-Hexanone	0.1774913	9.282641	14.37833	3.342442E-02			15	
cis-1,3-Dichloropropene	0.5583355	12.24083	13.17333	3.514299E-02			15	
Toluene	1.007943	8.039726	13.38833	3.412964E-02			CCC (30)	
trans-1,3-Dichloropropene	0.5083854	8.161449	13.72833	3.425112E-02			15	
1,1,2-Trichloroethane	0.3740107	9.949524	13.89	1.598847E-02			15	
Tetrachloroethene	0.3722038	4.743313	13.74833	3.038995E-02			15	
Dibromochloromethane	0.4527415	5.701068	14.075	3.859828E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306033	Instrument:	OVGCMS3
Matrix:	Water	Calibration Date:	06/13/13 09:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	0.3921782	11.37313	14.34	5.304507E-03			15	
Chlorobenzene	1.350359	13.34069	14.76833	2.257483E-02			SPCC (0.3)	
Ethylbenzene	0.5406848	13.48153	14.73333	3.435116E-02			CCC (30)	
m,p-Xylenes	0.7486103	9.685126	14.84667	3.133446E-02			15	
o-Xylene	0.66083	14.75151	15.26833	2.431741E-02			15	
Bromoform	0.3020733	14.24803	15.425	3.589648E-02			SPCC (0.1)	
Styrene	1.117766	14.34278	15.31333	3.675938E-02			15	
Isopropylbenzene	1.752245	14.11576	15.542	2.362674E-02			15	
1,1,2,2-Tetrachloroethane	0.4845003	14.47556	16.02333	2.649516E-02			SPCC (0.3)	
1,2,4-Trichlorobenzene	1.080609	7.751118	20.14	2.881205E-02			15	
1,3-Dichlorobenzene	1.997949	12.35538	17.06333	0.0285741			15	
1,4-Dichlorobenzene	1.986849	9.737437	17.16167	3.075325E-02			15	
1,2-Dichlorobenzene	1.780781	9.060729	17.73167	1.309683E-02			15	
1,2-Dibromo-3-chloropropane	0.1158369	7.299078	18.91667	4.460862E-02			15	
1,2,3-Trichlorobenzene	0.937078	10.29697	21.32333	2.592004E-02			15	
Dibromofluoromethane	0.7826645	12.82901	11.082	3.813257E-02			15	
Toluene-d8	1.220319	14.00916	13.342	2.510914E-02			15	
4-Bromofluorobenzene	0.5216112	12.90618	15.892	2.735598E-02			15	
Dichlorodifluoromethane	1.037361	7.722307	4.976667	0.1025787			15	
Chloromethane	1.059936	10.83734	5.53	9.309682E-03			SPCC (0.1)	
Vinyl chloride	1.089963	5.682593	5.77	1.049448E-02			CCC (30)	
Bromomethane	0.7371292	13.84833	6.57	0.1071423			15	
Chloroethane	0.6218215	11.58072	6.844	0.2214391			15	
Trichlorofluoromethane	1.309182	11.11777	7.123333	0.2612718			15	
Freon 113	0.8875421	11.33135	8.101667	9.440272E-02			15	
Acetone	0.1497159	14.90447	9.038333	3.957867E-02			15	
1,1-Dichloroethene	0.6868533	14.19794	8.063334	6.411571E-02			CCC (30)	
Carbon disulfide	2.565204	9.481482	8.153333	6.094817E-02			15	
Methylene Chloride	0.7968829	13.42387	8.968334	0.0484919			15	
Methyl-tert-Butyl Ether	0.8775536	13.64279	9.308334	0.0823294			15	
trans-1,2-Dichloroethene	0.6941017	6.156847	9.19	7.001499E-02			15	
cis-1,2-Dichloroethene	0.7221569	7.664391	10.61333	4.800984E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration: 1306033
Instrument: OVGCMS3
Matrix: Water
Calibration Date: 06/13/13 09:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethane	1.257176	10.21449	9.995	5.434835E-02			SPCC (0.1)	
2-Butanone	0.0379066	14.70117	11.19667	4.432301E-02			15	
Chloroform	1.276935	11.45592	10.88167	4.060685E-02			CCC (30)	
Bromochloromethane	0.4034054	10.6052	10.845	5.034445E-02			15	
1,1,1-Trichloroethane	0.9838435	10.324	11.14333	4.853326E-02			15	
Methyl acetate	7.794707E-02	7.38023	9.176667	8.807814E-02			15	
Cyclohexane	1.081537	13.02733	10.85667	4.714439E-02			15	
Methyl cyclohexane	0.6137229	13.14534	12.07833	5.996611E-02			15	
Carbon Tetrachloride	0.5446732	11.1526	11.07	1.358978E-02			15	
1,2-Dichloroethane	0.4900266	8.192874	11.72	2.548976E-02			15	
Benzene	1.514479	11.50609	11.52	2.534572E-02			15	
Trichloroethene	0.4662336	14.29909	12.06833	3.039692E-02			15	
1,2-Dichloropropane	0.4088076	13.55816	12.58333	3.759501E-02			CCC (30)	
1,4-Dioxane	2.419878E-03	12.74371	12.77714	4.102491E-02			15	
Bromodichloromethane	0.5341104	12.02595	12.60333	3.905849E-02			15	
4-Methyl-2-pentanone	3.355655E-02	7.878012	13.66667	0.0346149			15	
2-Hexanone	0.1774913	9.282641	14.37833	3.342442E-02			15	
cis-1,3-Dichloropropene	0.5583355	12.24083	13.17333	3.514299E-02			15	
Toluene	1.007943	8.039726	13.38833	3.412964E-02			CCC (30)	
trans-1,3-Dichloropropene	0.5083854	8.161449	13.72833	3.425112E-02			15	
1,1,2-Trichloroethane	0.3740107	9.949524	13.89	1.598847E-02			15	
Tetrachloroethene	0.3722038	4.743313	13.74833	3.038995E-02			15	
Dibromochloromethane	0.4527415	5.701068	14.075	3.859828E-02			15	
1,2-Dibromoethane	0.3921782	11.37313	14.34	5.304507E-03			15	
Chlorobenzene	1.350359	13.34069	14.76833	2.257483E-02			SPCC (0.3)	
Ethylbenzene	0.5406848	13.48153	14.73333	3.435116E-02			CCC (30)	
m,p-Xylenes	0.7486103	9.685126	14.84667	3.133446E-02			15	
o-Xylene	0.66083	14.75151	15.26833	2.431741E-02			15	
Bromoform	0.3020733	14.24803	15.425	3.589648E-02			SPCC (0.1)	
Styrene	1.117766	14.34278	15.31333	3.675938E-02			15	
Isopropylbenzene	1.752245	14.11576	15.542	2.362674E-02			15	
1,1,2,2-Tetrachloroethane	0.4845003	14.47556	16.02333	2.649516E-02			SPCC (0.3)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306033	Instrument:	OVGCMS3
Matrix:	Water	Calibration Date:	06/13/13 09:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2,4-Trichlorobenzene	1.080609	7.751118	20.14	2.881205E-02			15	
1,3-Dichlorobenzene	1.997949	12.35538	17.06333	0.0285741			15	
1,4-Dichlorobenzene	1.986849	9.737437	17.16167	3.075325E-02			15	
1,2-Dichlorobenzene	1.780781	9.060729	17.73167	1.309683E-02			15	
1,2-Dibromo-3-chloropropane	0.1158369	7.299078	18.91667	4.460862E-02			15	
1,2,3-Trichlorobenzene	0.937078	10.29697	21.32333	2.592004E-02			15	
Dibromofluoromethane	0.7826645	12.82901	11.082	3.813257E-02			15	
Toluene-d8	1.220319	14.00916	13.342	2.510914E-02			15	
4-Bromofluorobenzene	0.5216112	12.90618	15.892	2.735598E-02			15	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Laboratory ID: AA22782-SCV1

Sequence: AA22782

Standard ID: A3A0038

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Dichlorodifluoromethane	50.0	48	-4.2	20.00
1,1,1-Trichloroethane	50.0	57	13.9	20.00
Bromomethane	50.0	47	-7.0	20.00
Chloromethane	50.0	42	-16.3	20.00
Bromochloromethane	50.0	56	12.5	20.00
Chloroethane	50.0	41	-18.6	20.00
Vinyl chloride	50.0	41	-18.4	20.00
Methylene Chloride	50.0	55	10.2	20.00
Carbon disulfide	250	230	-8.5	20.00
Bromoform	50.0	57	14.6	20.00
Bromodichloromethane	50.0	56	12.8	20.00
1,1-Dichloroethane	50.0	57	13.9	20.00
1,2-Dibromo-3-chloropropane	50.0	58	16.7	20.00
Trichlorofluoromethane	50.0	43	-14.3	20.00
Acetone	125	110	-11.8	20.00
Freon 113	50.0	54	9.0	20.00
1,2-Dichloropropane	50.0	58	16.2	20.00
2-Butanone	125	120	-0.3	20.00
1,1,2-Trichloroethane	50.0	57	14.3	20.00
Trichloroethene	50.0	56	11.7	20.00
Methyl acetate	50.0	57	13.7	20.00
1,1,2,2-Tetrachloroethane	50.0	57	13.3	20.00
1,2,3-Trichlorobenzene	50.0	52	4.1	20.00
o-Xylene	50.0	52	3.7	20.00
1,2-Dichlorobenzene	50.0	51	1.7	20.00
Ethylbenzene	50.0	53	6.7	20.00
1,1-Dichloroethene	50.0	58	16.0	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Laboratory ID: AA22782-SCV1

Sequence: AA22782

Standard ID: A3A0038

1,4-Dioxane	500	530	6.1	25.00
Styrene	50.0	54	7.3	20.00
cis-1,3-Dichloropropene	50.0	53	6.5	20.00
trans-1,3-Dichloropropene	50.0	57	13.2	20.00
1,4-Dichlorobenzene	50.0	52	3.0	20.00
1,2-Dibromoethane	50.0	55	10.0	20.00
1,2-Dichloroethane	50.0	57	14.3	20.00
4-Methyl-2-pentanone	125	130	3.8	20.00
m,p-Xylenes	100	110	7.0	20.00
Methyl cyclohexane	50.0	50	-0.2	20.00
Toluene	50.0	54	8.1	20.00
Chlorobenzene	50.0	51	2.7	20.00
Benzene	50.0	57	14.4	20.00
1,2,4-Trichlorobenzene	50.0	51	1.2	20.00
Chloroform	50.0	57	13.9	20.00
Dibromochloromethane	50.0	55	10.6	20.00
Tetrachloroethene	50.0	55	10.8	20.00
cis-1,2-Dichloroethene	50.0	55	10.6	20.00
trans-1,2-Dichloroethene	50.0	57	14.0	20.00
Methyl-tert-Butyl Ether	50.0	58	15.5	20.00
Dibromofluoromethane	50.0	40	-19.5	20.00
Toluene-d8	50.0	42	-15.2	20.00
4-Bromofluorobenzene	50.0	42	-16.4	20.00
1,3-Dichlorobenzene	50.0	50	-0.9	20.00
Carbon Tetrachloride	50.0	58	15.3	20.00
2-Hexanone	125	120	-4.7	20.00
Isopropylbenzene	50.0	52	3.2	20.00
Cyclohexane	50.0	51	1.6	20.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Laboratory ID: AA22782-SCV2

Sequence: AA22782

Standard ID: A3A0039

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Dichlorodifluoromethane	100	100	4.4	20.00
1,1,1-Trichloroethane	100	110	12.9	20.00
Bromomethane	100	88	-11.7	20.00
Chloromethane	100	89	-10.6	20.00
Bromochloromethane	100	120	15.0	20.00
Chloroethane	100	110	11.4	20.00
Vinyl chloride	100	84	-15.9	20.00
Methylene Chloride	100	120	16.9	20.00
Carbon disulfide	500	430	-13.3	20.00
Bromoform	100	120	17.8	20.00
Bromodichloromethane	100	120	18.5	20.00
1,1-Dichloroethane	100	120	17.9	20.00
Ethylbenzene	100	120	18.5	20.00
Trichlorofluoromethane	100	91	-8.6	20.00
Acetone	250	220	-12.9	20.00
Freon 113	100	110	13.8	20.00
1,2-Dichloropropane	100	120	16.2	20.00
2-Butanone	250	260	2.3	20.00
1,1,2-Trichloroethane	100	120	18.8	20.00
Trichloroethene	100	120	17.6	20.00
Methyl acetate	100	91	-9.1	20.00
1,1,2,2-Tetrachloroethane	100	110	9.1	20.00
1,2,3-Trichlorobenzene	100	110	13.7	20.00
o-Xylene	100	110	14.4	20.00
1,2-Dichlorobenzene	100	110	8.4	20.00
1,2-Dibromo-3-chloropropane	100	120	20.0	20.00
1,1-Dichloroethene	100	120	18.3	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1301050

Laboratory ID: AA22782-SCV2

Sequence: AA22782

Standard ID: A3A0039

1,4-Dioxane	1000	1000	2.8	25.00
Styrene	100	120	17.9	20.00
cis-1,3-Dichloropropene	100	120	15.4	20.00
trans-1,3-Dichloropropene	100	120	19.0	20.00
1,4-Dichlorobenzene	100	110	10.0	20.00
1,2-Dibromoethane	100	120	19.2	20.00
1,2-Dichloroethane	100	120	18.8	20.00
4-Methyl-2-pentanone	250	270	6.1	20.00
m,p-Xylenes	200	220	10.7	20.00
Methyl cyclohexane	100	110	8.1	20.00
Toluene	100	120	19.3	20.00
Chlorobenzene	100	110	12.8	20.00
Benzene	100	120	16.4	20.00
1,2,4-Trichlorobenzene	100	110	12.0	20.00
Chloroform	100	110	12.2	20.00
Dibromochloromethane	100	120	16.2	20.00
Tetrachloroethene	100	120	17.2	20.00
cis-1,2-Dichloroethene	100	120	19.3	20.00
trans-1,2-Dichloroethene	100	120	17.1	20.00
Methyl-tert-Butyl Ether	100	120	18.8	20.00
Dibromofluoromethane	50.0	41	-18.7	20.00
Toluene-d8	50.0	44	-11.4	20.00
4-Bromofluorobenzene	50.0	43	-13.0	20.00
1,3-Dichlorobenzene	100	110	6.0	20.00
Carbon Tetrachloride	100	120	15.5	20.00
2-Hexanone	250	250	-1.0	20.00
Isopropylbenzene	100	110	13.6	20.00
Cyclohexane	100	110	8.3	20.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Laboratory ID: AA24402-SCV1

Sequence: AA24402

Standard ID: A3F0019

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Dichlorodifluoromethane	50.0	53	5.6	20.00
1,1,1-Trichloroethane	50.0	54	8.3	20.00
Bromomethane	50.0	42	-15.5	20.00
Chloromethane	50.0	60	19.4	20.00
Bromochloromethane	50.0	50	-0.3	20.00
Chloroethane	50.0	58	15.7	20.00
Vinyl chloride	50.0	58	15.6	20.00
Methylene Chloride	50.0	50	-0.5	20.00
Carbon disulfide	50.0	55	10.5	20.00
Bromoform	50.0	49	-2.5	20.00
Bromodichloromethane	50.0	54	9.0	20.00
1,1-Dichloroethane	50.0	53	6.0	20.00
1,2-Dibromo-3-chloropropane	50.0	46	-8.9	20.00
Trichlorofluoromethane	50.0	57	14.4	20.00
Acetone	125	110	-9.6	20.00
Freon 113	50.0	54	8.8	20.00
1,2-Dichloropropane	50.0	51	1.4	20.00
2-Butanone	125	120	-4.3	20.00
1,1,2-Trichloroethane	50.0	52	3.5	20.00
Trichloroethene	50.0	52	4.5	20.00
Methyl acetate	50.0	58	15.8	20.00
1,1,2,2-Tetrachloroethane	50.0	46	-7.7	20.00
1,2,3-Trichlorobenzene	50.0	47	-5.5	20.00
o-Xylene	50.0	50	0.5	20.00
1,2-Dichlorobenzene	50.0	47	-6.6	20.00
Ethylbenzene	50.0	53	6.6	20.00
1,1-Dichloroethene	50.0	57	13.5	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Laboratory ID: AA24402-SCV1

Sequence: AA24402

Standard ID: A3F0019

1,4-Dioxane	50.0	44	-12.7	20.00
Styrene	50.0	56	13.0	20.00
cis-1,3-Dichloropropene	50.0	50	0.6	20.00
trans-1,3-Dichloropropene	50.0	58	15.5	20.00
1,4-Dichlorobenzene	50.0	48	-3.1	20.00
1,2-Dibromoethane	50.0	51	2.8	20.00
1,2-Dichloroethane	50.0	52	3.5	20.00
4-Methyl-2-pentanone	125	120	-5.5	20.00
m,p-Xylenes	100	100	4.8	20.00
Methyl cyclohexane	50.0	47	-6.6	20.00
Toluene	50.0	54	7.3	20.00
Chlorobenzene	50.0	50	0.8	20.00
Benzene	50.0	52	4.7	20.00
1,2,4-Trichlorobenzene	50.0	48	-3.5	20.00
Chloroform	50.0	53	5.5	20.00
Dibromochloromethane	50.0	53	5.4	20.00
Tetrachloroethene	50.0	55	9.2	20.00
cis-1,2-Dichloroethene	50.0	51	2.2	20.00
trans-1,2-Dichloroethene	50.0	51	1.8	20.00
Methyl-tert-Butyl Ether	50.0	51	2.3	20.00
Dibromofluoromethane	50.0	41	-17.7	20.00
Toluene-d8	50.0	43	-14.8	20.00
4-Bromofluorobenzene	50.0	43	-13.2	20.00
1,3-Dichlorobenzene	50.0	47	-6.1	20.00
Carbon Tetrachloride	50.0	54	8.5	20.00
2-Hexanone	125	120	-3.3	20.00
Isopropylbenzene	50.0	52	4.9	20.00
Cyclohexane	50.0	50	1.0	20.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Laboratory ID: AA24402-SCV2

Sequence: AA24402

Standard ID: A3F0020

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Dichlorodifluoromethane	100	91	-8.5	20.00
1,1,1-Trichloroethane	100	100	1.6	20.00
Bromomethane	100	99	-1.2	20.00
Chloromethane	100	90	-10.0	20.00
Bromochloromethane	100	94	-6.0	20.00
Chloroethane	100	83	-16.8	20.00
Vinyl chloride	100	87	-12.6	20.00
Methylene Chloride	100	92	-7.5	20.00
Carbon disulfide	100	98	-1.9	20.00
Bromoform	100	100	1.3	20.00
Bromodichloromethane	100	100	4.1	20.00
1,1-Dichloroethane	100	99	-1.2	20.00
Ethylbenzene	100	100	2.0	20.00
Trichlorofluoromethane	100	94	-6.0	20.00
Acetone	250	230	-9.4	20.00
Freon 113	100	99	-0.6	20.00
1,2-Dichloropropane	100	97	-3.2	20.00
2-Butanone	250	250	-0.8	20.00
1,1,2-Trichloroethane	100	100	3.4	20.00
Trichloroethene	100	97	-3.4	20.00
Methyl acetate	100	110	14.1	20.00
1,1,2,2-Tetrachloroethane	100	97	-3.1	20.00
1,2,3-Trichlorobenzene	100	96	-3.6	20.00
o-Xylene	100	97	-3.3	20.00
1,2-Dichlorobenzene	100	88	-11.6	20.00
1,2-Dibromo-3-chloropropane	100	98	-1.9	20.00
1,1-Dichloroethene	100	100	2.2	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306004

Laboratory ID: AA24402-SCV2

Sequence: AA24402

Standard ID: A3F0020

1,4-Dioxane	100	95	-5.2	20.00
Styrene	100	110	8.3	20.00
cis-1,3-Dichloropropene	100	96	-4.0	20.00
trans-1,3-Dichloropropene	100	110	10.7	20.00
1,4-Dichlorobenzene	100	89	-10.9	20.00
1,2-Dibromoethane	100	110	5.5	20.00
1,2-Dichloroethane	100	100	2.5	20.00
4-Methyl-2-pentanone	250	250	-0.02	20.00
m,p-Xylenes	200	200	-1.9	20.00
Methyl cyclohexane	100	88	-11.7	20.00
Toluene	100	100	2.5	20.00
Chlorobenzene	100	95	-5.4	20.00
Benzene	100	99	-1.3	20.00
1,2,4-Trichlorobenzene	100	93	-6.8	20.00
Chloroform	100	98	-1.6	20.00
Dibromochloromethane	100	110	6.3	20.00
Tetrachloroethene	100	100	4.2	20.00
cis-1,2-Dichloroethene	100	95	-5.1	20.00
trans-1,2-Dichloroethene	100	93	-7.1	20.00
Methyl-tert-Butyl Ether	100	98	-1.9	20.00
Dibromofluoromethane	50.0	44	-12.6	20.00
Toluene-d8	50.0	47	-6.6	20.00
4-Bromofluorobenzene	50.0	47	-5.6	20.00
1,3-Dichlorobenzene	100	87	-12.7	20.00
Carbon Tetrachloride	100	100	3.3	20.00
2-Hexanone	250	250	1.2	20.00
Isopropylbenzene	100	98	-1.7	20.00
Cyclohexane	100	91	-9.1	20.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Laboratory ID: AA24527-SCV1

Sequence: AA24527

Standard ID: A3F0204

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Dichlorodifluoromethane	50.0	58	16.0	20.00
1,1,1-Trichloroethane	50.0	50	-0.9	20.00
Bromomethane	50.0	44	-11.2	20.00
Chloromethane	50.0	57	13.4	20.00
Bromochloromethane	50.0	50	0.6	20.00
Chloroethane	50.0	49	-2.5	20.00
Vinyl chloride	50.0	50	-0.9	20.00
Methylene Chloride	50.0	47	-6.6	20.00
Carbon disulfide	50.0	49	-1.4	20.00
Bromoform	50.0	45	-9.4	20.00
Bromodichloromethane	50.0	50	-0.9	20.00
1,1-Dichloroethane	50.0	50	-0.3	20.00
1,2-Dibromo-3-chloropropane	50.0	47	-6.3	20.00
Trichlorofluoromethane	50.0	52	4.6	20.00
Acetone	125	120	-5.9	20.00
Freon 113	50.0	48	-3.1	20.00
1,2-Dichloropropane	50.0	47	-6.0	20.00
2-Butanone	125	150	16.7	20.00
1,1,2-Trichloroethane	50.0	46	-8.5	20.00
Trichloroethene	50.0	46	-7.9	20.00
Methyl acetate	50.0	58	15.8	20.00
1,1,2,2-Tetrachloroethane	50.0	45	-9.7	20.00
1,2,3-Trichlorobenzene	50.0	47	-6.2	20.00
o-Xylene	50.0	50	-0.9	20.00
1,2-Dichlorobenzene	50.0	45	-9.7	20.00
Ethylbenzene	50.0	51	1.7	20.00
1,1-Dichloroethene	50.0	51	1.4	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Laboratory ID: AA24527-SCV1

Sequence: AA24527

Standard ID: A3F0204

1,4-Dioxane	50.0	57	13.6	25.00
Styrene	50.0	52	3.6	20.00
cis-1,3-Dichloropropene	50.0	51	1.7	20.00
trans-1,3-Dichloropropene	50.0	53	6.5	20.00
1,4-Dichlorobenzene	50.0	44	-11.4	20.00
1,2-Dibromoethane	50.0	47	-6.5	20.00
1,2-Dichloroethane	50.0	48	-3.9	20.00
4-Methyl-2-pentanone	125	140	10.1	20.00
m,p-Xylenes	100	93	-6.7	20.00
Methyl cyclohexane	50.0	44	-12.2	20.00
Toluene	50.0	48	-3.6	20.00
Chlorobenzene	50.0	43	-13.1	20.00
Benzene	50.0	50	-0.5	20.00
1,2,4-Trichlorobenzene	50.0	46	-8.6	20.00
Chloroform	50.0	48	-3.1	20.00
Dibromochloromethane	50.0	49	-1.5	20.00
Tetrachloroethene	50.0	49	-2.6	20.00
cis-1,2-Dichloroethene	50.0	51	1.5	20.00
trans-1,2-Dichloroethene	50.0	50	0.2	20.00
Methyl-tert-Butyl Ether	50.0	55	10.1	20.00
Dibromofluoromethane	50.0	41	-17.1	20.00
Toluene-d8	50.0	43	-13.1	20.00
4-Bromofluorobenzene	50.0	45	-10.5	20.00
1,3-Dichlorobenzene	50.0	44	-12.8	20.00
Carbon Tetrachloride	50.0	48	-4.4	20.00
2-Hexanone	125	140	12.9	20.00
Isopropylbenzene	50.0	48	-3.0	20.00
Cyclohexane	50.0	49	-1.5	20.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Laboratory ID: AA24527-SCV2

Sequence: AA24527

Standard ID: A3F0205

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Dichlorodifluoromethane	100	110	8.7	20.00
1,1,1-Trichloroethane	100	91	-8.6	20.00
Bromomethane	100	83	-16.5	20.00
Chloromethane	100	110	10.4	20.00
Bromochloromethane	100	94	-5.6	20.00
Chloroethane	100	83	-17.4	20.00
Vinyl chloride	100	99	-1.4	20.00
Methylene Chloride	100	88	-11.8	20.00
Carbon disulfide	100	87	-13.2	20.00
Bromoform	100	91	-9.1	20.00
Bromodichloromethane	100	92	-7.8	20.00
1,1-Dichloroethane	100	94	-6.5	20.00
Ethylbenzene	100	110	5.8	20.00
Trichlorofluoromethane	100	95	-5.0	20.00
Acetone	250	210	-14.8	20.00
Freon 113	100	89	-11.2	20.00
1,2-Dichloropropane	100	92	-7.6	20.00
2-Butanone	250	290	17.2	20.00
1,1,2-Trichloroethane	100	92	-7.5	20.00
Trichloroethene	100	89	-11.2	20.00
Methyl acetate	100	88	-12.4	20.00
1,1,2,2-Tetrachloroethane	100	84	-15.5	20.00
1,2,3-Trichlorobenzene	100	93	-6.8	20.00
o-Xylene	100	100	3.8	20.00
1,2-Dichlorobenzene	100	87	-12.6	20.00
1,2-Dibromo-3-chloropropane	100	90	-9.9	20.00
1,1-Dichloroethene	100	93	-7.3	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306033

Laboratory ID: AA24527-SCV2

Sequence: AA24527

Standard ID: A3F0205

1,4-Dioxane	100	110	9.5	25.00
Styrene	100	110	7.0	20.00
cis-1,3-Dichloropropene	100	99	-1.4	20.00
trans-1,3-Dichloropropene	100	110	7.8	20.00
1,4-Dichlorobenzene	100	85	-14.7	20.00
1,2-Dibromoethane	100	95	-4.6	20.00
1,2-Dichloroethane	100	90	-9.8	20.00
4-Methyl-2-pentanone	250	280	11.3	20.00
m,p-Xylenes	200	180	-10.6	20.00
Methyl cyclohexane	100	83	-17.5	20.00
Toluene	100	95	-5.0	20.00
Chlorobenzene	100	85	-15.3	20.00
Benzene	100	93	-7.2	20.00
1,2,4-Trichlorobenzene	100	87	-12.6	20.00
Chloroform	100	91	-9.3	20.00
Dibromochloromethane	100	99	-1.0	20.00
Tetrachloroethene	100	96	-4.3	20.00
cis-1,2-Dichloroethene	100	99	-1.0	20.00
trans-1,2-Dichloroethene	100	99	-1.2	20.00
Methyl-tert-Butyl Ether	100	120	15.9	20.00
Dibromofluoromethane	50.0	40	-19.4	20.00
Toluene-d8	50.0	44	-12.7	20.00
4-Bromofluorobenzene	50.0	41	-17.0	20.00
1,3-Dichlorobenzene	100	83	-16.6	20.00
Carbon Tetrachloride	100	90	-10.0	20.00
2-Hexanone	250	270	8.5	20.00
Isopropylbenzene	100	95	-5.4	20.00
Cyclohexane	100	95	-5.4	20.00

* Values outside of QC limits

ANALYSIS SEQUENCE

AA24731

Instrument: OVGCMS2

Calibration ID: 1306004

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24731-TUN1	QC		1		A3E0210		
AA24731-CCV1	QC		2		A3F0251	A3F0071	
3F27024-BS1	QC		3			A3F0071	
3F27024-BSD1	QC		4			A3F0071	
3F27024-BLK1	QC		5			A3F0071	
A303499-06	8260B TICs	C	6			A3F0071	CH2M Hill, Inc. (CH025)
A303499-06	8260B TCL SOM01.2 DOD	C	6			A3F0071	CH2M Hill, Inc. (CH025)
A303499-06	8260B DOD	C	6			A3F0071	CH2M Hill, Inc. (CH025)
A303499-07	8260B TICs	C	7			A3F0071	CH2M Hill, Inc. (CH025)
A303499-07	8260B DOD	C	7			A3F0071	CH2M Hill, Inc. (CH025)
A303499-07	8260B TCL SOM01.2 DOD	C	7			A3F0071	CH2M Hill, Inc. (CH025)
A303499-09	8260B TICs	C	8			A3F0071	CH2M Hill, Inc. (CH025)
A303499-09	8260B DOD	C	8			A3F0071	CH2M Hill, Inc. (CH025)
A303499-09	8260B TCL SOM01.2 DOD	C	8			A3F0071	CH2M Hill, Inc. (CH025)
A303499-10	8260B TCL SOM01.2 DOD	C	9			A3F0071	CH2M Hill, Inc. (CH025)
A303499-10	8260B TICs	C	9			A3F0071	CH2M Hill, Inc. (CH025)
A303499-10	8260B DOD	C	9			A3F0071	CH2M Hill, Inc. (CH025)
A303499-11	8260B DOD	C	10			A3F0071	CH2M Hill, Inc. (CH025)
A303499-11	8260B TCL SOM01.2 DOD	C	10			A3F0071	CH2M Hill, Inc. (CH025)
A303499-11	8260B TICs	C	10			A3F0071	CH2M Hill, Inc. (CH025)
A303499-12	8260B DOD	C	11			A3F0071	CH2M Hill, Inc. (CH025)
A303499-12	8260B TCL SOM01.2 DOD	C	11			A3F0071	CH2M Hill, Inc. (CH025)
A303499-12	8260B TICs	C	11			A3F0071	CH2M Hill, Inc. (CH025)
A303499-14	8260B DOD	C	12			A3F0071	CH2M Hill, Inc. (CH025)
A303499-14	8260B TCL SOM01.2 DOD	C	12			A3F0071	CH2M Hill, Inc. (CH025)
A303499-14	8260B TICs	C	12			A3F0071	CH2M Hill, Inc. (CH025)
A303499-15	8260B DOD	C	13			A3F0071	CH2M Hill, Inc. (CH025)
A303499-15	8260B TCL SOM01.2 DOD	C	13			A3F0071	CH2M Hill, Inc. (CH025)
A303499-15	8260B TICs	C	13			A3F0071	CH2M Hill, Inc. (CH025)
A303499-17	8260B DOD	C	14			A3F0071	CH2M Hill, Inc. (CH025)
A303499-17	8260B TCL SOM01.2 DOD	C	14			A3F0071	CH2M Hill, Inc. (CH025)
A303499-17	8260B TICs	C	14			A3F0071	CH2M Hill, Inc. (CH025)
A303499-18	8260B TICs	C	15			A3F0071	CH2M Hill, Inc. (CH025)

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

AA24731

Instrument: OVGCMS2

Calibration ID: 1306004

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
A303499-18	8260B DOD	C	15			A3F0071	CH2M Hill, Inc. (CH025)
A303499-18	8260B TCL SOM01.2 DOD	C	15			A3F0071	CH2M Hill, Inc. (CH025)
A303499-19	8260B TICs	C	16			A3F0071	CH2M Hill, Inc. (CH025)
A303499-19	8260B DOD	C	16			A3F0071	CH2M Hill, Inc. (CH025)
A303499-19	8260B TCL SOM01.2 DOD	C	16			A3F0071	CH2M Hill, Inc. (CH025)
A303499-20	8260B DOD	C	17			A3F0071	CH2M Hill, Inc. (CH025)
A303499-20	8260B TCL SOM01.2 DOD	C	17			A3F0071	CH2M Hill, Inc. (CH025)
A303499-20	8260B TICs	C	17			A3F0071	CH2M Hill, Inc. (CH025)
A303499-21	8260B TCL SOM01.2 DOD	C	18			A3F0071	CH2M Hill, Inc. (CH025)
A303499-21	8260B TICs	C	18			A3F0071	CH2M Hill, Inc. (CH025)
A303499-21	8260B DOD	C	18			A3F0071	CH2M Hill, Inc. (CH025)
A303499-22	8260B DOD	C	19			A3F0071	CH2M Hill, Inc. (CH025)
A303499-22	8260B TCL SOM01.2 DOD	C	19			A3F0071	CH2M Hill, Inc. (CH025)
A303499-22	8260B TICs	C	19			A3F0071	CH2M Hill, Inc. (CH025)

Samples Loaded By Date Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/27/2013 12:26:09PM

3F27024

ENCO Orlando

Analysis
8260B DOD [EPA 8260B]
8260B TCL SOM01.2 DOD [EPA 8260B]
8260B TICs [EPA 8260B]

Surrogate Solution
___ A3C0381 8260 surr working

Prepared using: EPA 5030B_MS

Spiking Solution
A3E0489 8260 Acrolein 2 working
A3F0029 8260 mix full 2 working + TCL

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F27024-BLK1		Blank		QC							1		
3F27024-BS1		LCS		QC					A3F0029 A3E0489	2 2	1		
3F27024-BSD1		LCS Dup		QC					A3F0029 A3E0489	2 2	1		
A303499-06	D	TR-2ND-SB07-0.5-01-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-06	D	TR-2ND-SB07-0.5-01-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-06	D	TR-2ND-SB07-0.5-01-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-07	D	TR-2ND-SB07-04-06-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-07	D	TR-2ND-SB07-04-06-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-07	D	TR-2ND-SB07-04-06-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-09	D	TR-2ND-SB06-0.5-01-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-09	D	TR-2ND-SB06-0.5-01-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-09	D	TR-2ND-SB06-0.5-01-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-10	D	TR-2ND-SB06-05-07-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-10	D	TR-2ND-SB06-05-07-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-10	D	TR-2ND-SB06-05-07-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-11	D	TR-2ND-SB06D-0.5-01-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-11	D	TR-2ND-SB06D-0.5-01-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-11	D	TR-2ND-SB06D-0.5-01-0613 C[MS39	11-Jul-13	8260B TICs							1		

PREPARATION BENCH SHEET

Printed: 6/27/2013 12:26:09PM

3F27024

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution
___ A3C0381 8260 surr working

Spiking Solution
A3E0489 8260 Acrolein 2 working
A3F0029 8260 mix full 2 working + TCL

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303499-12	D	TR-2ND-SB06D-05-07-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-12	D	TR-2ND-SB06D-05-07-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-12	D	TR-2ND-SB06D-05-07-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-14	D	TR-2ND-SB04-0.5-01-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-14	D	TR-2ND-SB04-0.5-01-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-14	D	TR-2ND-SB04-0.5-01-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-15	D	TR-2ND-SB04-04-06-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-15	D	TR-2ND-SB04-04-06-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-15	D	TR-2ND-SB04-04-06-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-17	D	TR-2ND-SB05-0.5-01-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-17	D	TR-2ND-SB05-0.5-01-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-17	D	TR-2ND-SB05-0.5-01-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-18	D	TR-2ND-SB05-03-05-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-18	D	TR-2ND-SB05-03-05-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-18	D	TR-2ND-SB05-03-05-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-19	D	TR-2ND-SB03-0.5-01-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-19	D	TR-2ND-SB03-0.5-01-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-19	D	TR-2ND-SB03-0.5-01-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-20	D	TR-2ND-SB03-04-06-0613 C[MS39	11-Jul-13	8260B TICs							1		

PREPARATION BENCH SHEET

Printed: 6/27/2013 12:26:09PM

3F27024

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution
___ A3C0381 8260 surr working

Spiking Solution
A3E0489 8260 Acrolein 2 working
A3F0029 8260 mix full 2 working + TCL

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303499-20	D	TR-2ND-SB03-04-06-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-20	D	TR-2ND-SB03-04-06-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-21	D	TR-2ND-SB02-0.5-1-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-21	D	TR-2ND-SB02-0.5-1-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-21	D	TR-2ND-SB02-0.5-1-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-22	D	TR-2ND-SB02-06-08-0613 C[MS39	11-Jul-13	8260B TICs							1		
A303499-22	D	TR-2ND-SB02-06-08-0613 C[MS39	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-22	D	TR-2ND-SB02-06-08-0613 C[MS39	11-Jul-13	8260B DOD							1		Total Xylene only

*(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 **mg/L**. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.*

Inst. 2 DOD

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture Lot#

PREPARATION BENCH SHEET

Printed: 6/27/2013 12:26:09PM

3F27024

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution

___ A3C0381 8260 surr working

Spiking Solution

A3E0489 8260 Acrolein 2 working

A3F0029 8260 mix full 2 working + TCL

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

Equipment Used

Sonicator _____ Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Balance _____ Daily calibration complete? [ ] Yes [ ] No [ ] NA

Other

Samples Prepared By _____ Date

Samples Prepared By _____ Date

Samples Prepared By _____ Date

VOLATILES GC/MS LOGBOOK

Volatiles

EPA Method 624, SW-846 Method 8260
SW-846 5030B, SW-846 5035

Tune Start Date/Time:	6-27-13 1317	Surrogate ID:	A3C0381	8260 Mix :	A3F0007/1
Tune End Date/Time:	6-	Internal ID:	A3F0070/71	8260 Add:	A3F0196/1
Preventive Maintenance:	Purge Rate	LCS Acrolein 2°:	A3E0489/1	8260 Ac/Ac:	A3E0490/1
Method:	8260 Soil LX	LCS 8260 2°:	A3F0029/2	8260 Gases:	A3F0003/1
Workgroup:	3F270	Other Standard:	A3E0210/1 BFB	Instrument #: 1, 2, 3, or 4	

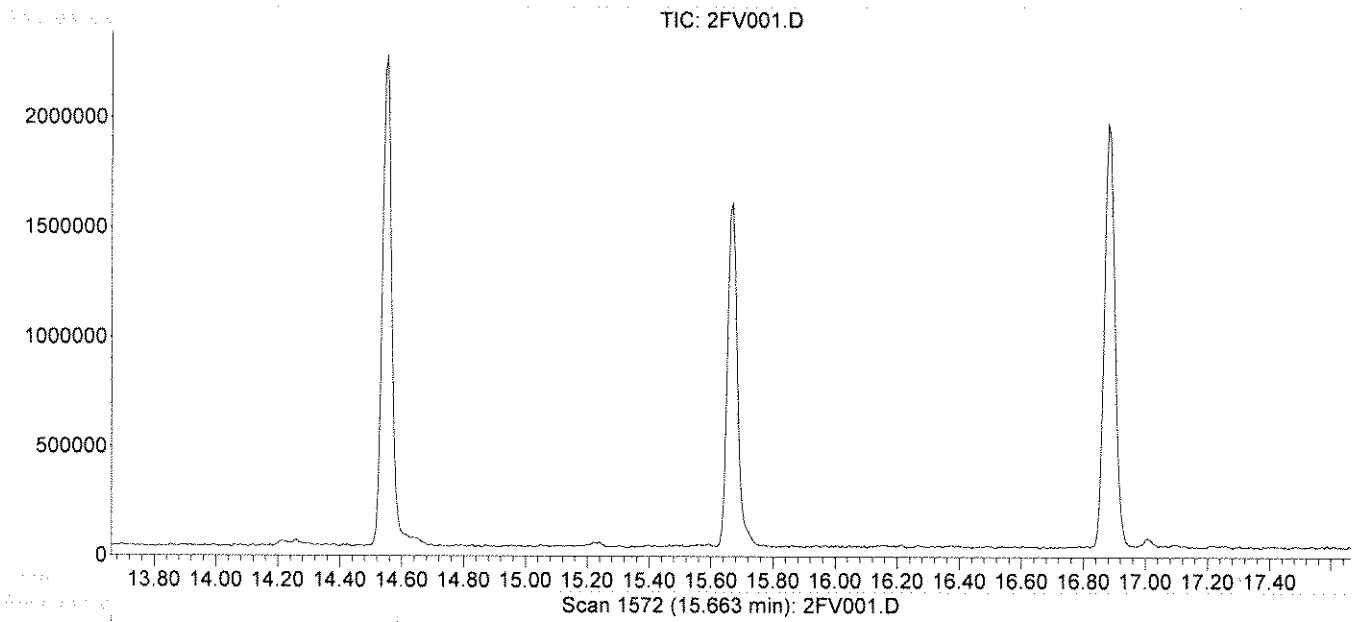
SEE AA 24731 QS ~~A3F0250~~ A3F0251 K0627R

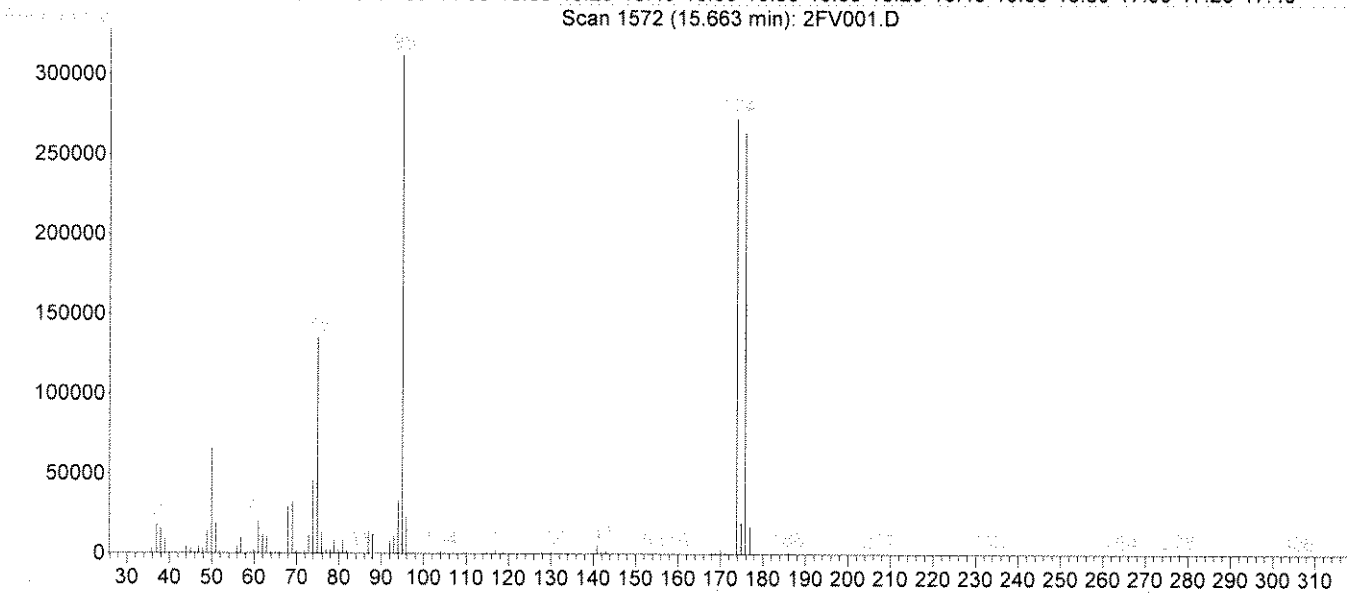
Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
2fv 001	1317	BFB 50ng	1ul/5ml	1	NA	NA	KT	AA 24731 - Tun1	✓
2fv 002	1351	8260 CVS 50ug/kg	5g/5ml	2			KT	AA 24731 - CW1	✓
2fv 003	1425	3F270 24 - BS1	5g/5ml	3			KT	LCS	✓
2fv 004	1459	3F270 24 - BSD1	5g/5ml	4			KT	LCSDup	✓
2fv 005	1536	3F270 24 - Blk1	5g/5ml	5			KT	Blk	✓
2fv 006	1611	3F270 24 - Blk1	5g/5ml	6			KT	Blk +FTCS	✓
2fv 007	1647	A3D3499-06(c)	6.80g	7			KT	8260 DDD, TCL (FTCS)	✓ DDD
2fv 008	1723	A3D3499-07(c)	6.12g	8			KT		✓
2fv 009	1758	A3D3499-09(c)	5.85g	9			KT		✓
2fv 010	1833	A3D3499-10(c)	5.34g	10			KT		✓
2fv 011	1908	A3D3499-11(c)	5.50g	11			KT		✓
2fv 012	1942	A3D3499-12(c)	5.53g	12			KT		✓
2fv 013	2017	A3D3499-14(c)	5.39g	13			KT		✓
2fv 014	2053	A3D3499-15(c)	6.41g	14			KT		✓
2fv 015	2128	A3D3499-17(c)	5.52g	15			KT		✓
2fv 016	2202	A3D3499-18(c)	6.55g	16			KT		✓
2fv 017	2237	A3D3499-19(c)	5.56g	17			KT		✓
2fv 018	2311	A3D3499-20(c)	6.35g	18			KT		✓
2fv 019	2344	A3D3499-21(c)	6.84g	19			KT		✓
2fv 020	0017	A3D3499-22(c)	5.56g	20			KT	Naphthalene = EUR	✓

BFB

Data File : C:\HPCHEM\1\DATA\062713\2FV001.D
Acq On : 27 Jun 2013 13:17
Sample : bfb 50 ng
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004

Vial: 1
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00





Spectrum Information: Scan 1572

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	66616	PASS
75	95	30	60	43.4	135616	PASS
95	95	100	100	100.0	312512	PASS
96	95	5	9	7.5	23432	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.2	272640	PASS
175	174	5	9	7.3	19864	PASS
176	174	95	101	96.9	264256	PASS
177	176	5	9	6.7	17728	PASS

KT 06.27.13

2FV001.D S1306004.M Thu Jun 27 15:10:38 2013

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration

KT 06/27/13

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	111	-0.01
2		Dichlorodifluoromethane	0.682	0.737	-8.1	118	-0.01
3	**	Chloromethane	0.797	0.758	4.9	115	-0.01
4	*	Vinyl Chloride	0.744	0.832	-11.8	129	-0.01
5		Bromomethane	0.277	0.255	7.9	104	-0.01
6		Chloroethane	0.297	0.262	11.8	103	-0.01
7		Trichlorofluoromethane	0.637	0.717	-12.6	125	-0.02
8		Trichlorotrifluoroethane	0.385	0.396	-2.9	109	-0.01
9		acrolein	0.088	0.071#	19.3	92	-0.01
10		Acetone	0.259	0.298	-15.1	133	-0.01
11	*m	1,1-Dichloroethene	0.319	0.331	-3.8	112	-0.01
12		3-Chloropropene	0.299	0.293	2.0	110	0.00
13		Acetonitrile	0.093	0.080#	14.0	96	-0.01
14		Iodomethane	0.681	0.683	-0.3	106	-0.01
15		Carbon disulfide	1.395	1.389	0.4	110	-0.02
16		Methylene Chloride	0.576	0.536	6.9	104	-0.01
17		Methyl tert-butyl ether	1.565	1.456	7.0	105	-0.01
18		Acrylonitrile	0.237	0.198	16.5	99	-0.01
19		T-1,2-Dichloroethene	0.531	0.504	5.1	103	-0.01
20		Isopropyl Ether	2.187	1.991	9.0	103	-0.01
21		C-1,2-Dichloroethene	0.558	0.524	6.1	105	-0.01
22	**	1,1-Dichloroethane	0.981	0.913	6.9	104	-0.01
23		Vinyl Acetate	1.808	1.670	7.6	105	-0.01
24		Chloroprene	0.782	0.831	-6.3	111	-0.01
25		2-Butanone	0.076	0.072#	5.3	108	-0.01
26		Propionitrile	0.092	0.083#	9.8	111	-0.01
27		2,2-Dichloropropane	0.743	0.721	3.0	108	-0.01
28		Methacrylonitrile	0.229	0.208	9.2	116	-0.01
29	*	Chloroform	0.884	0.861	2.6	108	-0.01
30	s	Dibromofluoromethane	0.527	0.541	-2.7	138	-0.01
31		Dibromofluoromethane	0.527	0.541	-2.7	138	-0.01
32		Bromochloromethane	0.299	0.274	8.4	107	-0.01
33		1,1,1-Trichloroethane	0.666	0.641	3.8	105	-0.01
34		1,1-Dichloropropene	0.718	0.665	7.4	104	-0.01
35		Diethyl ether	0.375	0.385	-2.7	113	-0.02
36		Methyl Acetate	0.112	0.099#	11.6	102	-0.01
37		Cyclohexane	0.919	0.885	3.7	102	-0.01
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	109	0.00
39		Methyl Cyclohexane	0.575	0.523	9.0	105	-0.01
40		Carbon Tetrachloride	0.405	0.397	2.0	102	0.00
41		1,2-Dichloroethane	0.505	0.487	3.6	108	-0.01
42	m	Benzene	1.297	1.238	4.5	108	-0.01
43		Isobutyl Alcohol	0.045	0.043#	4.4	106	-0.01
44	s	1,2-Dichloroethane-d4	0.415	0.435	-4.8	147	0.00
45		1,2-Dichloroethane-d4	0.415	0.435	-4.8	147	0.00
46	m	Trichloroethene	0.358	0.344	3.9	104	0.00
47	*	1,2-Dichloropropane	0.384	0.347	9.6	102	-0.01
48		Methyl Methacrylate	0.121	0.123	-1.7	107	-0.01
49		1,4-Dioxane	0.006	0.005#	16.7	106	-0.01
50		Bromodichloromethane	0.478	0.458	4.2	106	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.253	0.231	8.7	102	-0.01
52		4-Methyl-2-Pentanone	0.068	0.066#	2.9	110	-0.01
53		2-Chloroethyl vinyl ether	0.009	0.007#	22.2#	103	-0.01
54		2-Hexanone	0.415	0.386	7.0	99	-0.01
55		C-1,3-Dichloropropene	0.648	0.614	5.2	105	-0.01
56	s	D8-Toluene	1.169	1.259	-7.7	139	-0.01
57		D8-Toluene	1.169	1.259	-7.7	139	-0.01
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	108	-0.01
59	m*	Toluene	0.935	0.905	3.2	104	-0.01
60		Ethyl Methacrylate	0.630	0.585	7.1	107	-0.01
61		T-1,3-Dichloropropene	0.622	0.598	3.9	107	0.00
62		1,1,2-Trichloroethane	0.361	0.337	6.6	107	-0.01
63		1,3-Dichloropropane	0.680	0.627	7.8	104	0.00
64		Tetrachloroethene	0.325	0.324	0.3	106	0.00
65		Dibromochloromethane	0.475	0.434	8.6	104	-0.01
66		1,2-Dibromoethane	0.427	0.388	9.1	103	0.00
67	**m	Chlorobenzene	1.083	1.020	5.8	105	-0.01
68		1,1,1,2-Tetrachloroethane	0.404	0.374	7.4	103	0.00
69	*	Ethylbenzene	0.514	0.489	4.9	104	-0.01
70		m-xylene & p-xylene	0.647	0.616	4.8	103	-0.01
71		O-Xylene	0.677	0.633	6.5	104	-0.01
72	**	Bromoform	0.369	0.355	3.8	109	-0.01
73		Styrene	1.054	1.040	1.3	106	-0.01
74		Isopropylbenzene	1.681	1.591	5.4	102	-0.01
75		1,2,3-Trichloropropane	0.669	0.633	5.4	109	-0.01
76	**	1,1,2,2-Tetrachloroethane	0.571	0.524	8.2	107	0.00
77	s	Bromofluorobenzene	0.557	0.603	-8.3	142	-0.01
78		Bromofluorobenzene	0.557	0.603	-8.3	142	-0.01
79		T-1,4-dichloro-2-butene	0.175	0.165	5.7	104	0.00
80		N-Propylbenzene	1.994	1.912	4.1	103	-0.01
81	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	121	-0.01
82		Bromobenzene	0.983	0.826	16.0	106	-0.01
83		1,3,5-Trimethylbenzene	2.666	2.285	14.3	107	-0.01
84		2-Chlorotoluene	2.602	2.170	16.6	106	-0.01
85		4-Chlorotoluene	2.635	2.167	17.8	106	-0.01
86		1,2,4-Trimethylbenzene	2.571	2.220	13.7	109	-0.01
87		s-Butylbenzene	3.570	2.977	16.6	102	-0.01
88		tert-Butylbenzene	2.449	2.025	17.3	102	-0.02
89		p-Isopropyltoluene	2.568	2.226	13.3	107	-0.01
90		1,3-Dichlorobenzene	1.801	1.496	16.9	107	-0.02
91		1,4-Dichlorobenzene	1.745	1.462	16.2	111	-0.01
92		1,2-Dichlorobenzene	1.731	1.456	15.9	110	-0.01
93		N-Butylbenzene	2.543	2.171	14.6	106	-0.01
94		DBCP	0.224	0.180	19.6	110	-0.01
95		Naphthalene	2.264	1.980	12.5	119	-0.01
96		1,2,4-Trichlorobenzene	1.105	0.923	16.5	111	-0.01
97		Hexachlorobutadiene	0.584	0.467	20.0#	99	-0.02
98		1,2,3-Trichlorobenzene	1.000	0.811	18.9	106	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D
Acq On : 27 Jun 2013 13:51
Sample : 8260 cvs 50 ug/kg
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 27 15:12 2013

Vial: 2
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

6/27/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.30	168	1428004m	50.00	ug/kg	-0.01
38) 1,4-Difluorobenzene(IS)	11.88	114	2001940	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1755406	50.00	ug/kg	-0.01
81) 1,4-Dichlorobenzene-d4(IS)	16.88	152	973815	50.00	ug/kg	-0.01
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	772636	51.31	ug/kg	-0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 102.62%			
44) 1,2-Dichloroethane-d4	11.47	65	870556	52.36	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 104.72%			
56) D8-Toluene	13.16	98	2519606	53.82	ug/kg	-0.01
Spiked Amount 50.000	Range 80 - 123		Recovery = 107.64%			
77) Bromofluorobenzene	15.67	95	1058404	54.08	ug/kg	-0.01
Spiked Amount 50.000	Range 71 - 126		Recovery = 108.16%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.82	85	1052600	54.06	ug/kg	89
3) Chloromethane	5.37	50	1081834	47.54	ug/kg	99
4) Vinyl Chloride	5.60	62	1187979	55.92	ug/kg	96
5) Bromomethane	6.39	94	364782	46.18	ug/kg	94
6) Chloroethane	6.63	64	374079	44.11	ug/kg	98
7) Trichlorofluoromethane	6.91	101	1023809	56.25	ug/kg	99
8) Trichlorotrifluoroethane	7.92	101	565305	51.45	ug/kg	100
9) acrolein	8.43	56	1017820	403.76	ug/kg	98
10) Acetone	8.86	43	424959	57.53	ug/kg	97
11) 1,1-Dichloroethene	7.88	96	472284	51.89	ug/kg	94
12) 3-Chloropropene	8.62	76	418743	49.07	ug/kg	86
13) Acetonitrile	9.51	41	1141419	427.50	ug/kg	83
14) Iodomethane	8.14	142	975928	50.21	ug/kg	91
15) Carbon disulfide	7.96	76	1983883	49.79	ug/kg	98
16) Methylene Chloride	8.78	84	765017	46.48	ug/kg	88
17) Methyl tert-butyl ether	9.13	73	2079401	46.51	ug/kg	98
18) Acrylonitrile	9.88	53	2823400	416.51	ug/kg	96
19) T-1,2-Dichloroethene	9.00	96	720389	47.52	ug/kg	99
20) Isopropyl Ether	9.58	45	2843070	45.53	ug/kg	98
21) C-1,2-Dichloroethene	10.43	96	748619	46.97	ug/kg	96
22) 1,1-Dichloroethane	9.81	63	1304184	46.54	ug/kg	99
23) Vinyl Acetate	10.04	43	2384509	46.17	ug/kg	95
24) Chloroprene	9.77	53	1187045	53.15	ug/kg	79
25) 2-Butanone	11.01	72	102490	47.19	ug/kg	99
26) Propionitrile	11.35	54	1179506	449.24	ug/kg	100
27) 2,2-Dichloropropane	10.56	77	1029512	48.50	ug/kg	99
28) Methacrylonitrile	11.37	67	2963265	452.99	ug/kg#	54
29) Chloroform	10.69	83	1229669	48.68	ug/kg	95
31) Dibromofluoromethane	10.90	113	772636	51.31	ug/kg	100
32) Bromochloromethane	10.66	128	391714	45.91	ug/kg	83
33) 1,1,1-Trichloroethane	10.96	97	914817	48.12	ug/kg#	98
34) 1,1-Dichloropropene	11.07	75	949836	46.33	ug/kg	92
35) Diethyl ether	7.53	59	549969	51.34	ug/kg	96
36) Methyl Acetate	9.00	74	140821	43.96	ug/kg#	88
37) Cyclohexane	10.67	56	1264320	48.15	ug/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:12 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.90	55	1048011	45.48 ug/kg#	82
40) Carbon Tetrachloride	10.89	117	794368	48.98 ug/kg	97
41) 1,2-Dichloroethane	11.54	62	973978	48.13 ug/kg	95
42) Benzene	11.34	78	2478517	47.73 ug/kg#	41
43) Isobutyl Alcohol	11.41	43	1712650	947.74 ug/kg#	1
45) 1,2-Dichloroethane-d4	11.47	65	870556	52.36 ug/kg	96
46) Trichloroethene	11.89	130	688088	48.03 ug/kg	93
47) 1,2-Dichloropropane	12.40	63	694537	45.12 ug/kg	86
48) Methyl Methacrylate	12.48	100	246184	50.91 ug/kg#	1
49) 1,4-Dioxane	12.60	88	207416	900.50 ug/kg#	61
50) Bromodichloromethane	12.42	83	916274	47.84 ug/kg#	100
51) Dibromomethane	12.31	93	462139	45.57 ug/kg#	78
52) 4-Methyl-2-Pentanone	13.48	100	133073	49.15 ug/kg	92
53) 2-Chloroethyl vinyl ether	12.99	63	14931m	42.45 ug/kg	62
54) 2-Hexanone	14.19	43	772988	46.56 ug/kg	97
55) C-1,3-Dichloropropene	12.99	75	1229214	47.38 ug/kg	79
57) D8-Toluene	13.16	98	2519606	53.82 ug/kg	99
59) Toluene	13.20	92	1588884	48.38 ug/kg	99
60) Ethyl Methacrylate	13.59	69	1027509	46.43 ug/kg#	75
61) T-1,3-Dichloropropene	13.54	75	1050157	48.10 ug/kg	77
62) 1,1,2-Trichloroethane	13.70	97	591406	46.62 ug/kg	98
63) 1,3-Dichloropropane	13.96	76	1100362	46.11 ug/kg	99
64) Tetrachloroethene	13.57	164	569403	49.96 ug/kg	86
65) Dibromochloromethane	13.88	129	762130	45.74 ug/kg	96
66) 1,2-Dibromoethane	14.15	107	681842	45.44 ug/kg	94
67) Chlorobenzene	14.57	112	1789793	47.05 ug/kg	92
68) 1,1,1,2-Tetrachloroethane	14.60	131	657040	46.30 ug/kg	90
69) Ethylbenzene	14.53	106	859086	47.59 ug/kg	100
70) m-xylene & p-xylene	14.65	106	2163615	95.30 ug/kg	84
71) O-Xylene	15.06	106	1111449	46.77 ug/kg	99
72) Bromoform	15.21	173	623251	48.07 ug/kg	92
73) Styrene	15.11	104	1825411	49.35 ug/kg	88
74) Isopropylbenzene	15.33	105	2792538	47.32 ug/kg	99
75) 1,2,3-Trichloropropane	15.99	75	1111023	47.27 ug/kg	99
76) 1,1,2,2-Tetrachloroethane	15.80	83	919322	45.86 ug/kg	97
78) Bromofluorobenzene	15.67	95	1058404	54.08 ug/kg#	63
79) T-1,4-dichloro-2-butene	15.98	53	288825	47.05 ug/kg#	64
80) N-Propylbenzene	15.74	91	3356907	47.94 ug/kg	96
82) Bromobenzene	15.82	156	804218	42.01 ug/kg	78
83) 1,3,5-Trimethylbenzene	15.89	105	2224769	42.85 ug/kg	90
84) 2-Chlorotoluene	15.96	91	2112739	41.69 ug/kg	97
85) 4-Chlorotoluene	16.13	91	2110602	41.13 ug/kg	93
86) 1,2,4-Trimethylbenzene	16.33	105	2162179	43.17 ug/kg	93
87) s-Butylbenzene	16.46	105	2898972	41.70 ug/kg	92
88) tert-Butylbenzene	16.27	119	1972017	41.34 ug/kg	96
89) p-Isopropyltoluene	16.58	119	2167892	43.35 ug/kg	98
90) 1,3-Dichlorobenzene	16.80	146	1457102	41.53 ug/kg	91
91) 1,4-Dichlorobenzene	16.90	146	1423464	41.89 ug/kg	91
92) 1,2-Dichlorobenzene	17.45	146	1418046	42.06 ug/kg	94
93) N-Butylbenzene	17.09	91	2114446	42.70 ug/kg	93
94) DBCP	18.60	75	175159m	40.21 ug/kg	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:12 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.50	128	1928465	43.74 ug/kg	100
96)	1,2,4-Trichlorobenzene	19.79	180	898413	41.74 ug/kg	89
97)	Hexachlorobutadiene	19.62	225	455044	40.03 ug/kg	97
98)	1,2,3-Trichlorobenzene	20.92	180	789663	40.53 ug/kg	93

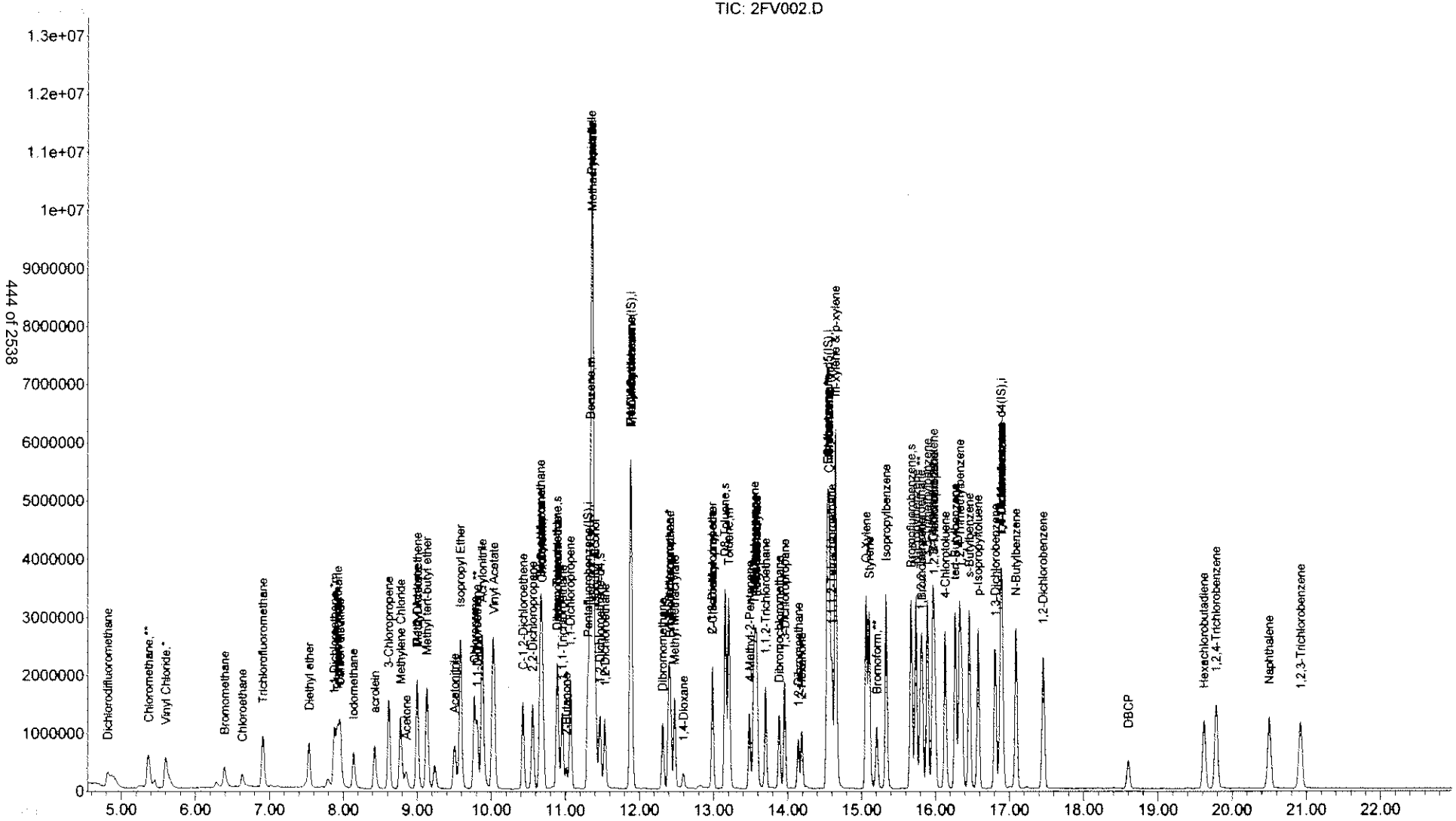
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:12 2013 Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration

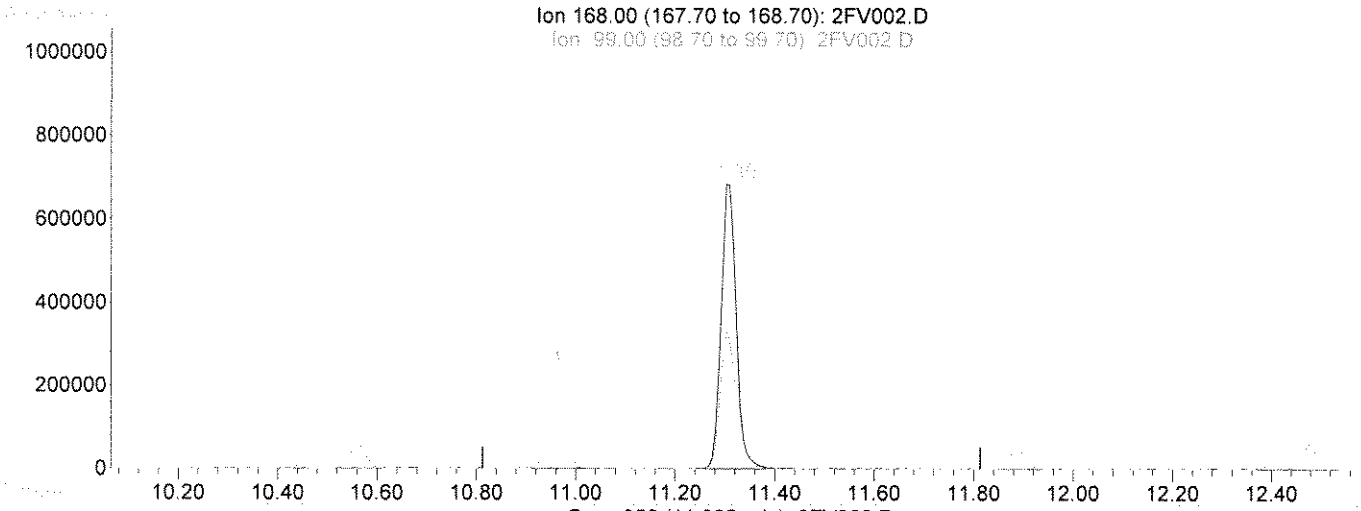
TIC: 2FV002.D

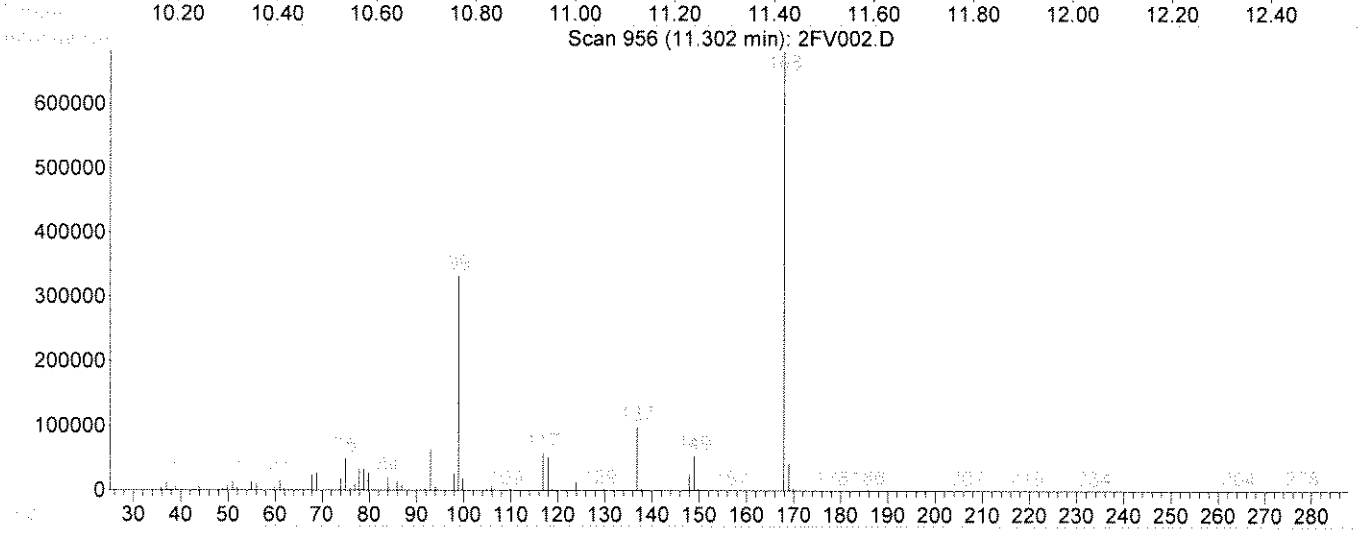


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:10 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV002.D

(1) Pentafluorobenzene(IS) (i)

11.30min 50.00ug/kg

response 1445809

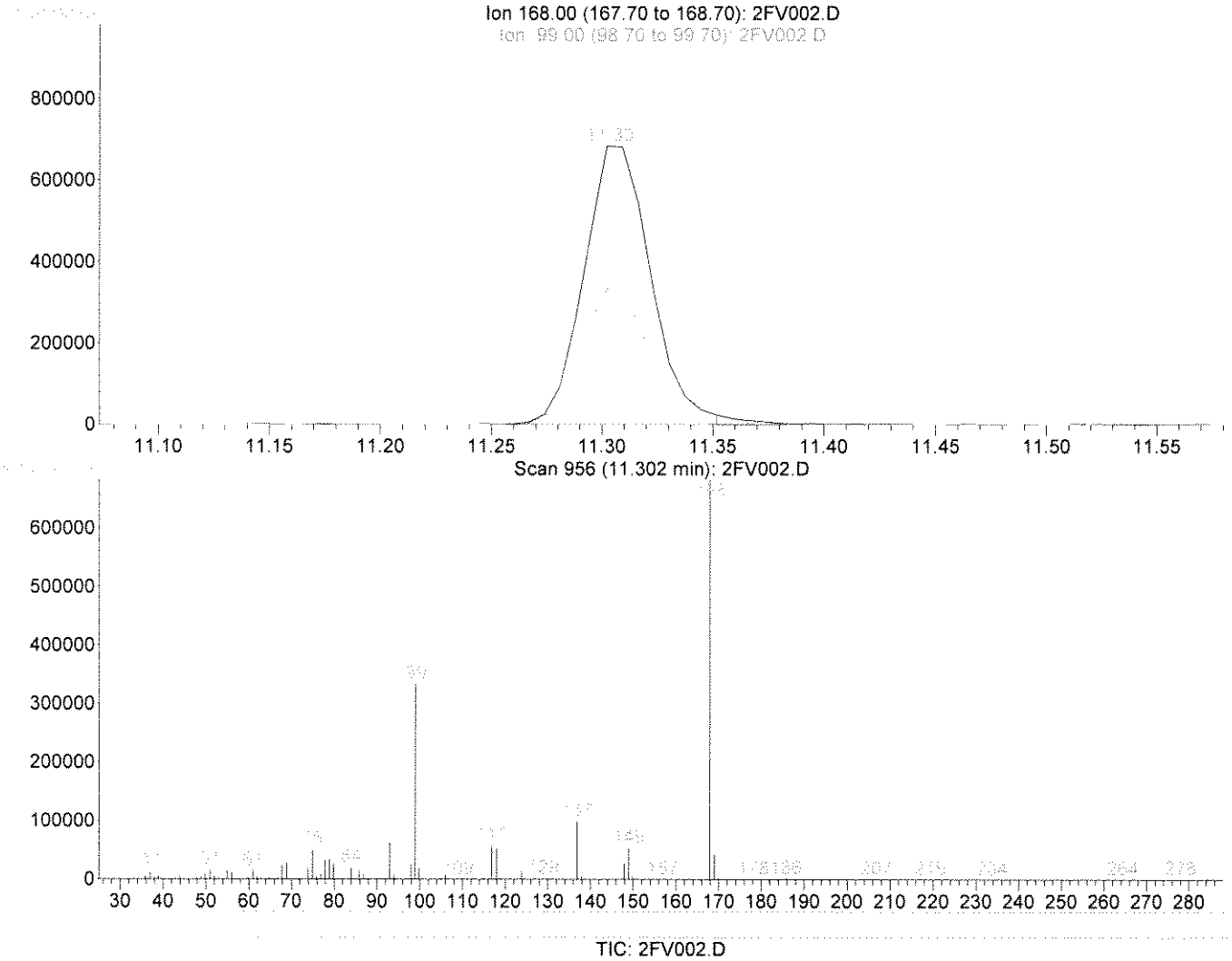
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	48.66
169.00	6.50	6.41
0.00	0.00	0.00

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date VTD 6/27/13
Review by/Date: LB 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:10 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration



(1) Pentafluorobenzene(IS) (i)

11.30min 50.00ug/kg m

response 1428004

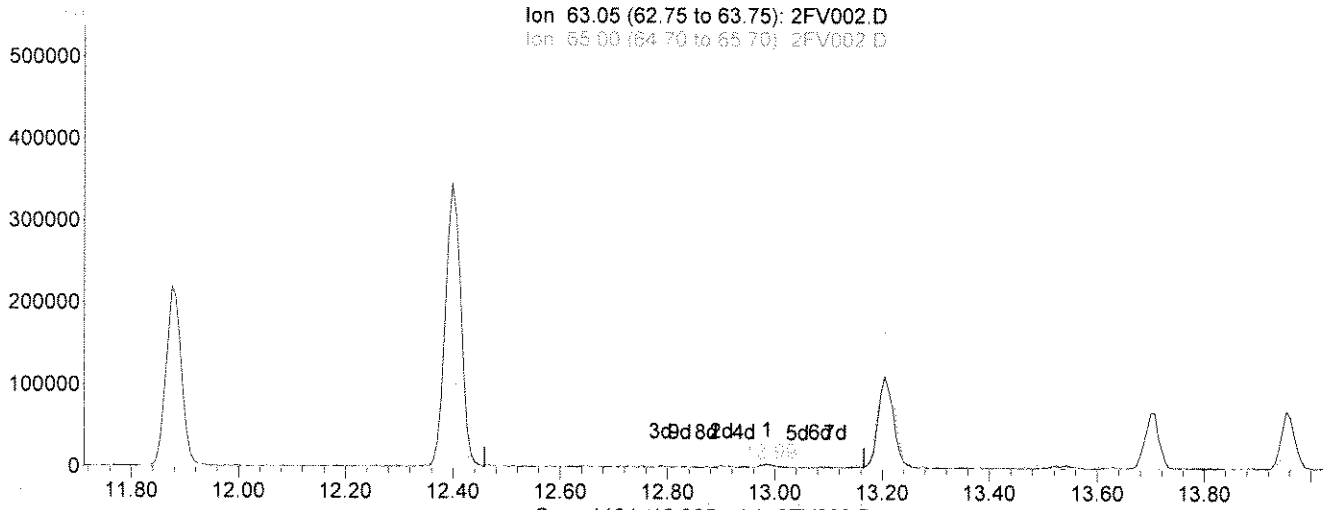
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	49.26
169.00	6.50	6.49
0.00	0.00	0.00

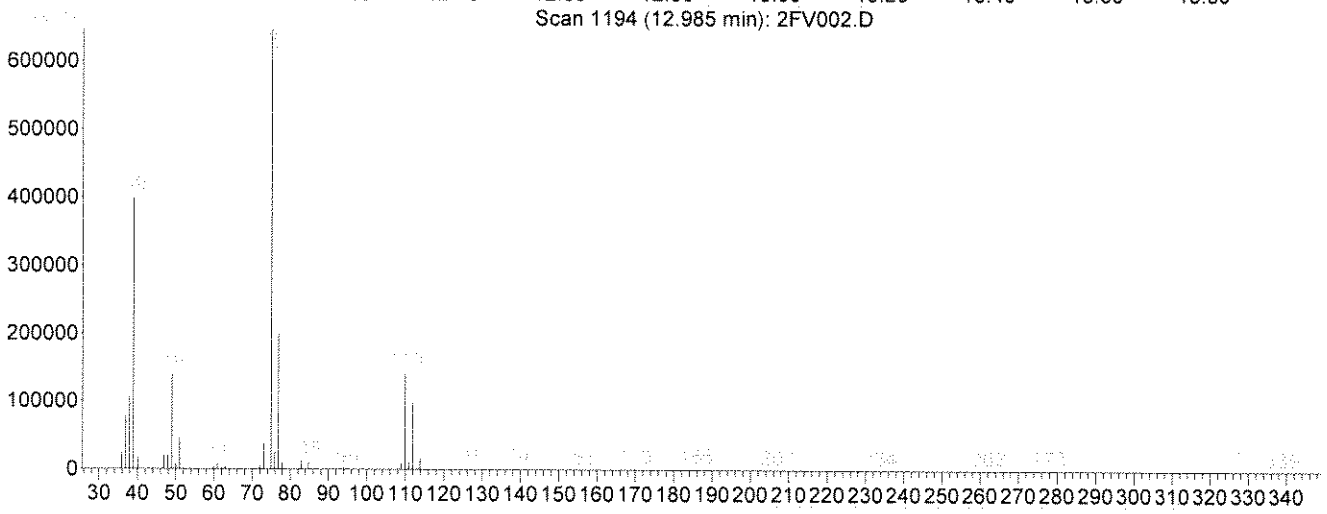
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date KB 06/27/13
Review by/Date: KB 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV002.D

(53) 2-Chloroethyl vinyl ether

12.99min 32.50ug/kg

response 11431

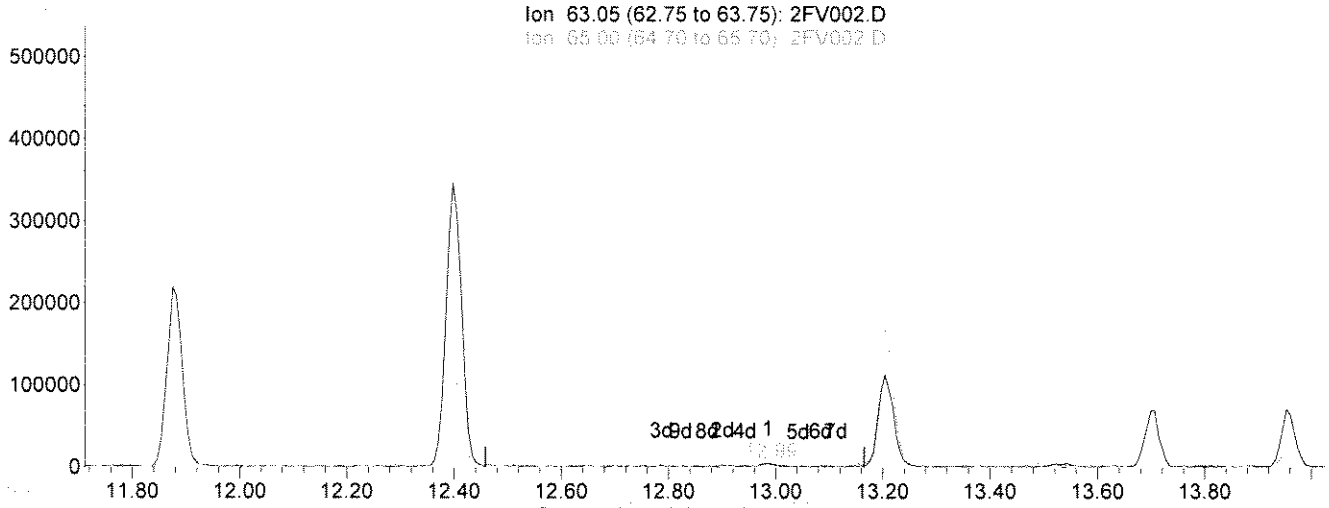
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	18.13
106.05	26.70	1.25
0.00	0.00	0.00

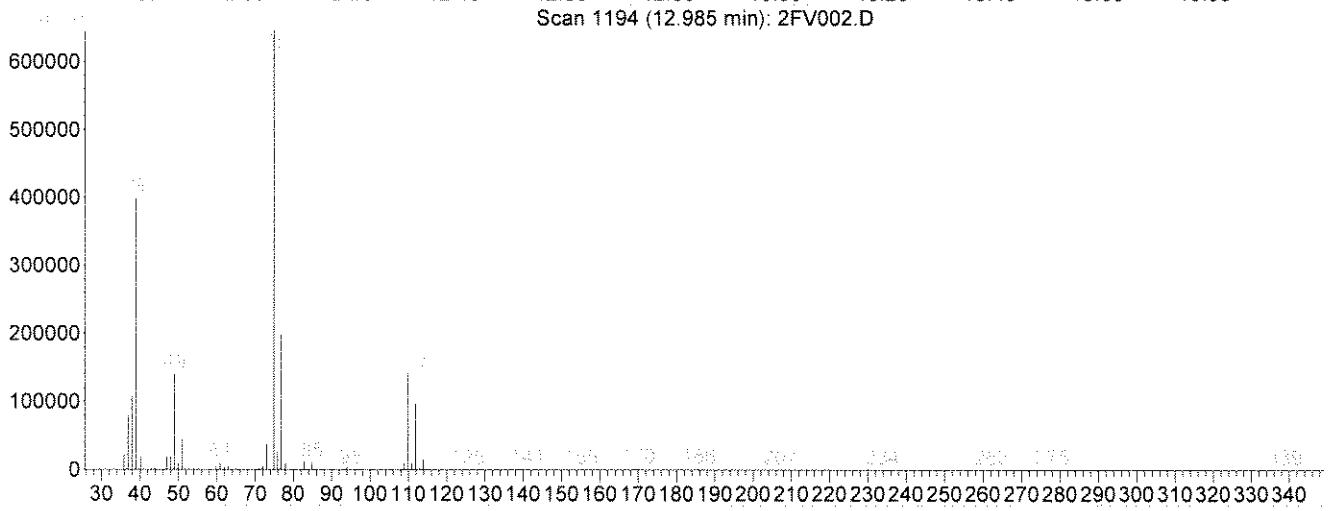
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/27/13
Review by/Date: KB 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV002.D

(53) 2-Chloroethyl vinyl ether

12.99min 42.45ug/kg m

response 14931

Ion	Exp%	Act%
63.05	100	100
65.00	34.80	13.88
106.05	26.70	0.96
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

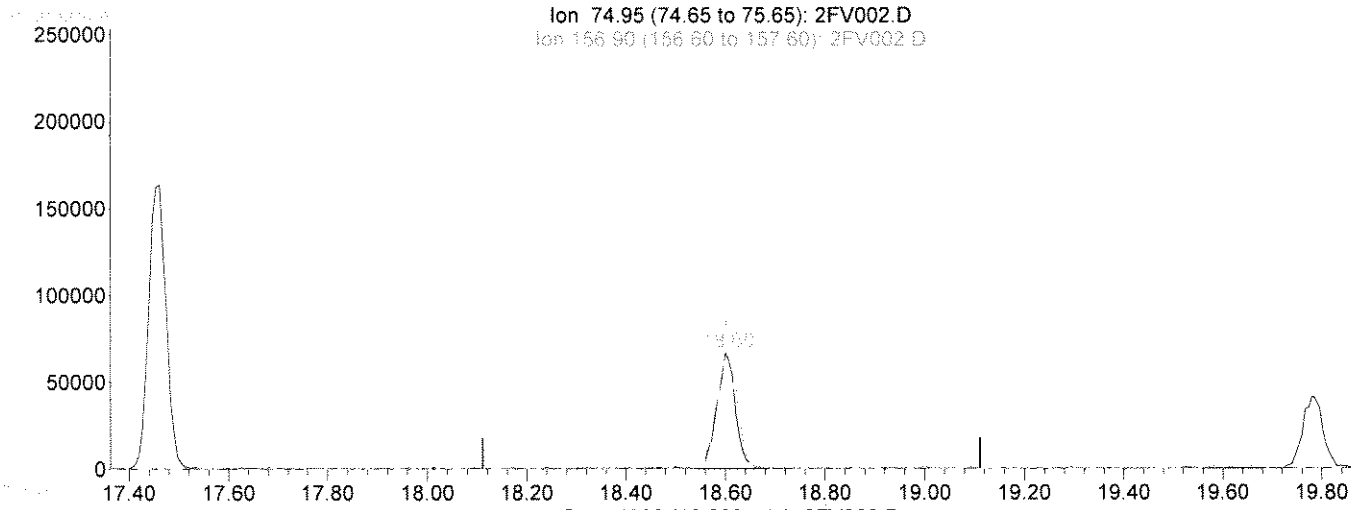
Review by/Date KT 06/27/13

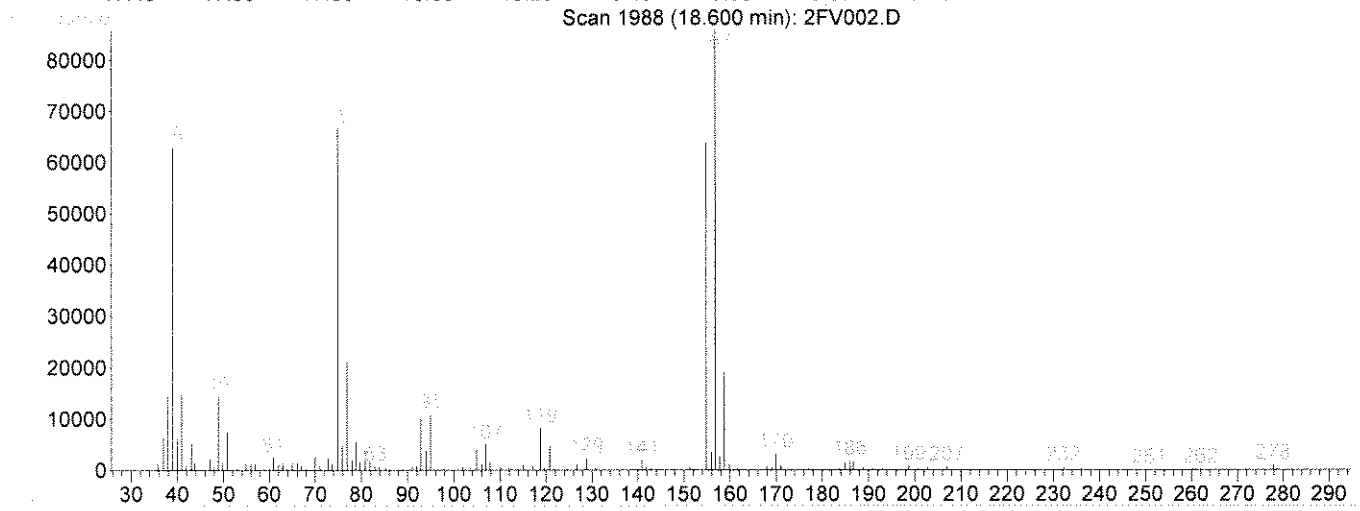
Review by/Date: KB 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV002.D

(94) DBCP

18.60min 39.32ug/kg

response 171289

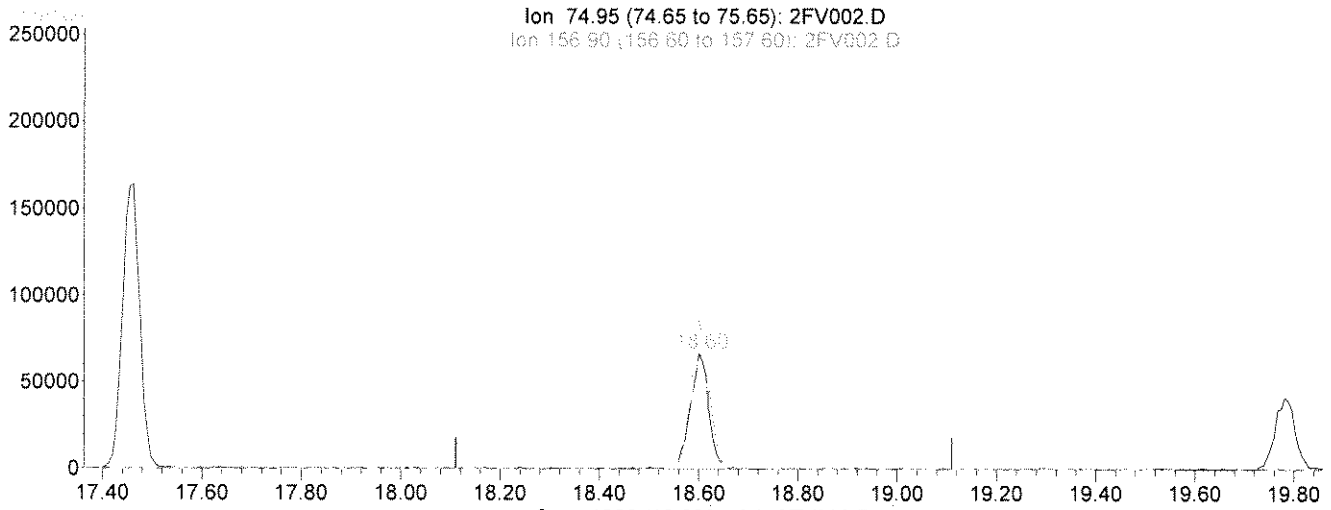
Ion	Exp%	Act%
74.95	100	100
156.90	107.30	128.73
154.90	80.30	100.22
0.00	0.00	0.00

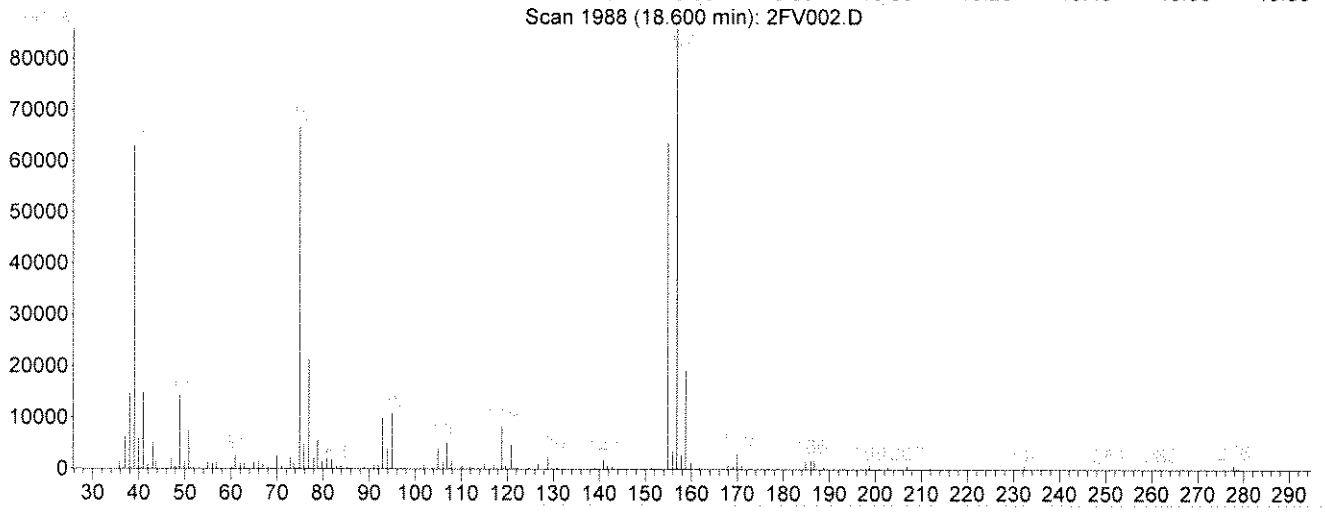
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date Utcde 6/27/13
Review by/Date: KB 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV002.D Vial: 2
Acq On : 27 Jun 2013 13:51 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:12 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV002.D

(94) DBCP

18.60min 40.21ug/kg m

response 175159

Ion	Exp%	Act%
74.95	100	100
156.90	107.30	125.89
154.90	80.30	98.00
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[✓] ISTD reintegration

[ ] Other:

Review by/Date: 6/27/13.

Review by/Date: 6-28-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:13 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KG 06/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1470467m	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	2057135	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1931432	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	885026	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	794448	51.24	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 102.48%			
44) 1,2-Dichloroethane-d4	11.47	65	880707	51.55	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 103.10%			
56) D8-Toluene	13.16	98	2498286	51.94	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 103.88%			
77) Bromofluorobenzene	15.67	95	1006459	46.74	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 93.48%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.82	85	437191	21.81	ug/kg	92
3) Chloromethane	5.37	50	469538	20.04	ug/kg	99
4) Vinyl Chloride	5.61	62	409618	18.72	ug/kg	97
5) Bromomethane	6.39	94	158905	19.53	ug/kg	96
6) Chloroethane	6.65	64	176991	20.27	ug/kg	85
7) Trichlorofluoromethane	6.96	101	368118	19.64	ug/kg	99
8) Trichlorotrifluoroethane	7.93	101	234281	20.71	ug/kg	97
9) acrolein	8.43	56	257761	99.30	ug/kg	98
10) Acetone	8.85	43	431540	56.74	ug/kg	100
11) 1,1-Dichloroethene	7.89	96	200286	21.37	ug/kg	96
12) 3-Chloropropene	8.63	76	174011	19.80	ug/kg	83
13) Acetonitrile	9.50	41	50079	18.21	ug/kg#	49
14) Iodomethane	8.15	142	394678	19.72	ug/kg	91
15) Carbon disulfide	7.97	76	807786	19.69	ug/kg	96
16) Methylene Chloride	8.78	84	317444	18.73	ug/kg	88
17) Methyl tert-butyl ether	9.13	73	892359	19.38	ug/kg	97
18) Acrylonitrile	9.88	53	152737	21.88	ug/kg	97
19) T-1,2-Dichloroethene	9.01	96	287867	18.44	ug/kg	95
20) Isopropyl Ether	9.59	45	1214930	18.89	ug/kg	98
21) C-1,2-Dichloroethene	10.44	96	303927	18.52	ug/kg	95
22) 1,1-Dichloroethane	9.81	63	555434	19.25	ug/kg	99
23) Vinyl Acetate	10.05	43	682142	12.83	ug/kg	92
24) Chloroprene	9.78	53	491370	21.37	ug/kg	78
25) 2-Butanone	11.02	72	120522	53.89	ug/kg	90
26) Propionitrile	11.35	54	59069	21.85	ug/kg	100
27) 2,2-Dichloropropane	10.56	77	420838	19.25	ug/kg	97
28) Methacrylonitrile	11.37	67	149373	22.18	ug/kg#	3
29) Chloroform	10.70	83	523804	20.14	ug/kg	93
31) Dibromofluoromethane	10.90	113	794448	51.24	ug/kg	100
32) Bromochloromethane	10.66	128	167767	19.09	ug/kg	82
33) 1,1,1-Trichloroethane	10.96	97	382790	19.55	ug/kg#	97
34) 1,1-Dichloropropene	11.07	75	385213	18.25	ug/kg	90
35) Diethyl ether	7.53	59	224674	20.37	ug/kg	94
36) Methyl Acetate	8.99	74	63093	19.13	ug/kg	85
37) Cyclohexane	10.68	56	514826	19.04	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:13 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.90	55	422012	17.82 ug/kg#	84
40) Carbon Tetrachloride	10.89	117	323029	19.38 ug/kg	96
41) 1,2-Dichloroethane	11.54	62	413182	19.87 ug/kg	94
42) Benzene	11.34	78	1075979	20.16 ug/kg	94
43) Isobutyl Alcohol	11.38	43	337454	181.73 ug/kg#	54
45) 1,2-Dichloroethane-d4	11.47	65	880707	51.55 ug/kg	93
46) Trichloroethene	11.89	130	302724	20.56 ug/kg	92
47) 1,2-Dichloropropane	12.40	63	311119	19.67 ug/kg	86
48) Methyl Methacrylate	12.48	100	107279	21.59 ug/kg#	1
49) 1,4-Dioxane	12.59	88	4863	20.55 ug/kg	82
50) Bromodichloromethane	12.42	83	412796	20.97 ug/kg#	100
51) Dibromomethane	12.32	93	209797	20.13 ug/kg#	80
52) 4-Methyl-2-Pentanone	13.48	100	149769	53.83 ug/kg	96
53) 2-Chloroethyl vinyl ether	13.00	63	4718m	13.06 ug/kg	59
54) 2-Hexanone	14.19	43	921947	54.05 ug/kg	96
55) C-1,3-Dichloropropene	12.99	75	508902	19.09 ug/kg	79
57) D8-Toluene	13.16	98	2498286	51.94 ug/kg	100
59) Toluene	13.21	92	683639	18.92 ug/kg	98
60) Ethyl Methacrylate	13.59	69	470194	19.31 ug/kg#	73
61) T-1,3-Dichloropropene	13.54	75	489959	20.40 ug/kg	76
62) 1,1,2-Trichloroethane	13.70	97	266320	19.08 ug/kg	97
63) 1,3-Dichloropropane	13.96	76	496865	18.93 ug/kg	99
64) Tetrachloroethene	13.56	164	294754	23.51 ug/kg	88
65) Dibromochloromethane	13.89	129	352620	19.23 ug/kg	95
66) 1,2-Dibromoethane	14.14	107	304830	18.46 ug/kg	91
67) Chlorobenzene	14.57	112	731040	17.47 ug/kg	86
68) 1,1,1,2-Tetrachloroethane	14.60	131	297885	19.08 ug/kg	86
69) Ethylbenzene	14.53	106	367601	18.51 ug/kg	97
70) m-xylene & p-xylene	14.65	106	931543	37.29 ug/kg	85
71) O-Xylene	15.07	106	459559	17.58 ug/kg	97
72) Bromoform	15.20	173	269335	18.88 ug/kg	90
73) Styrene	15.10	104	783257	19.24 ug/kg	87
74) Isopropylbenzene	15.34	105	1177274	18.13 ug/kg	99
75) 1,2,3-Trichloropropane	15.99	75	499399	19.31 ug/kg	96
76) 1,1,2,2-Tetrachloroethane	15.80	83	405654	18.39 ug/kg	97
78) Bromofluorobenzene	15.67	95	1006459	46.74 ug/kg#	72
79) T-1,4-dichloro-2-butene	15.98	53	133746	19.80 ug/kg#	69
80) N-Propylbenzene	15.74	91	1418192	18.41 ug/kg	95
82) Bromobenzene	15.82	156	352047	20.23 ug/kg	77
83) 1,3,5-Trimethylbenzene	15.90	105	922525	19.55 ug/kg	89
84) 2-Chlorotoluene	15.97	91	886842	19.25 ug/kg	98
85) 4-Chlorotoluene	16.14	91	889211	19.07 ug/kg	93
86) 1,2,4-Trimethylbenzene	16.33	105	912064	20.04 ug/kg	95
87) s-Butylbenzene	16.46	105	1214094	19.21 ug/kg	91
88) tert-Butylbenzene	16.27	119	836334	19.29 ug/kg	94
89) p-Isopropyltoluene	16.58	119	963543	21.20 ug/kg	98
90) 1,3-Dichlorobenzene	16.81	146	626368	19.64 ug/kg	92
91) 1,4-Dichlorobenzene	16.91	146	610135	19.76 ug/kg	94
92) 1,2-Dichlorobenzene	17.46	146	582697	19.02 ug/kg	93
93) N-Butylbenzene	17.09	91	878707	19.52 ug/kg	94
94) DBCP	18.61	75	82862	20.93 ug/kg	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:13 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.50	128	918249	22.92 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.78	180	373970	19.12 ug/kg	91
97) Hexachlorobutadiene	19.62	225	170738	16.52 ug/kg	97
98) 1,2,3-Trichlorobenzene	20.92	180	341520	19.29 ug/kg	91

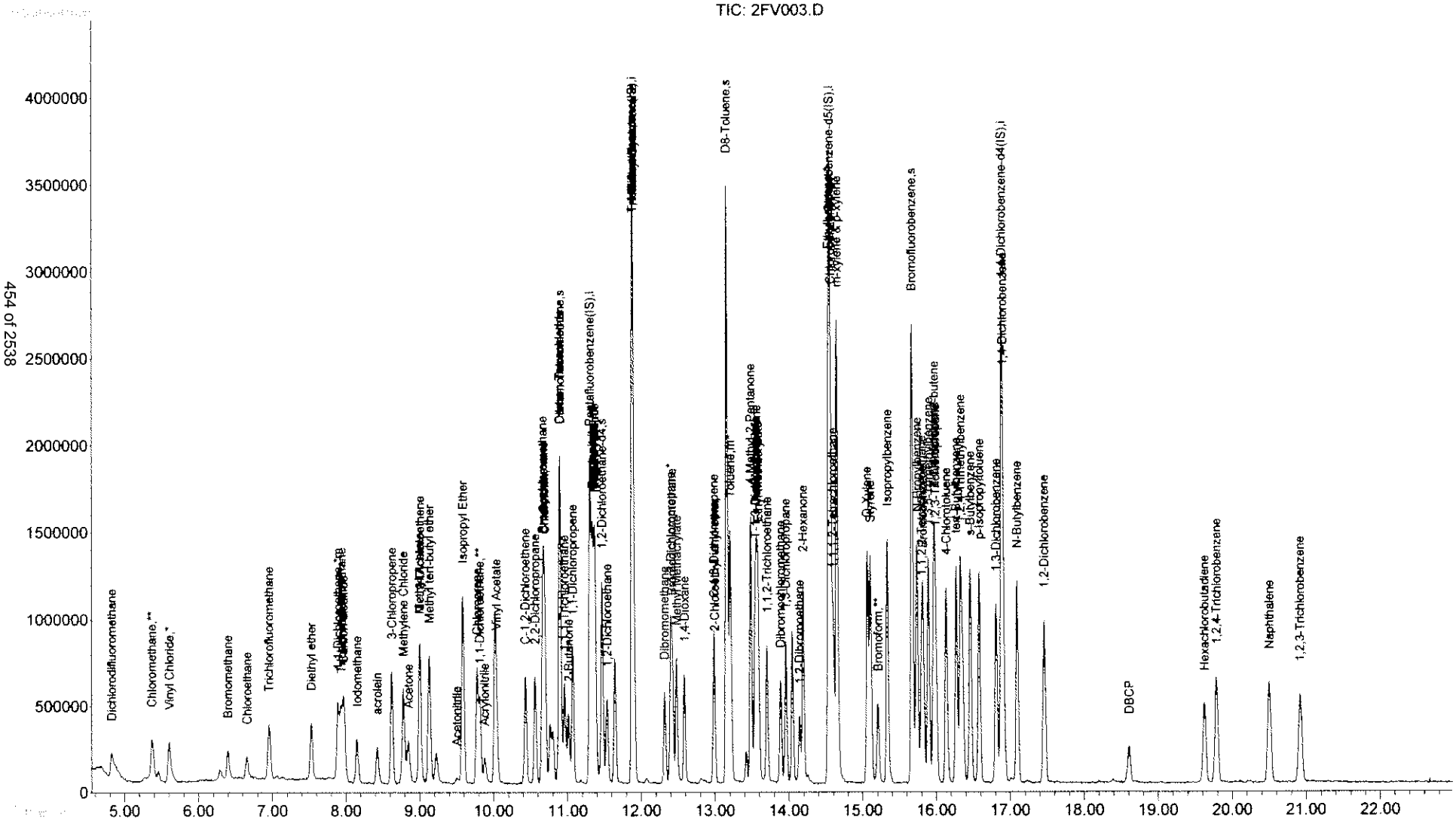
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:13 2013 Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Initial Calibration

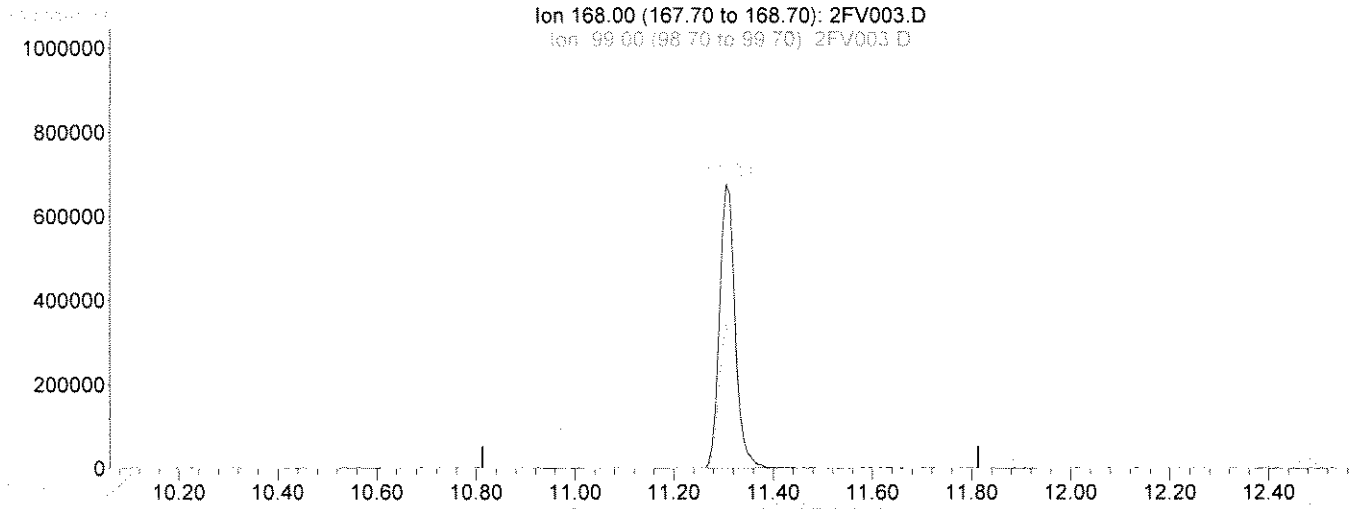
TIC: 2FV003.D

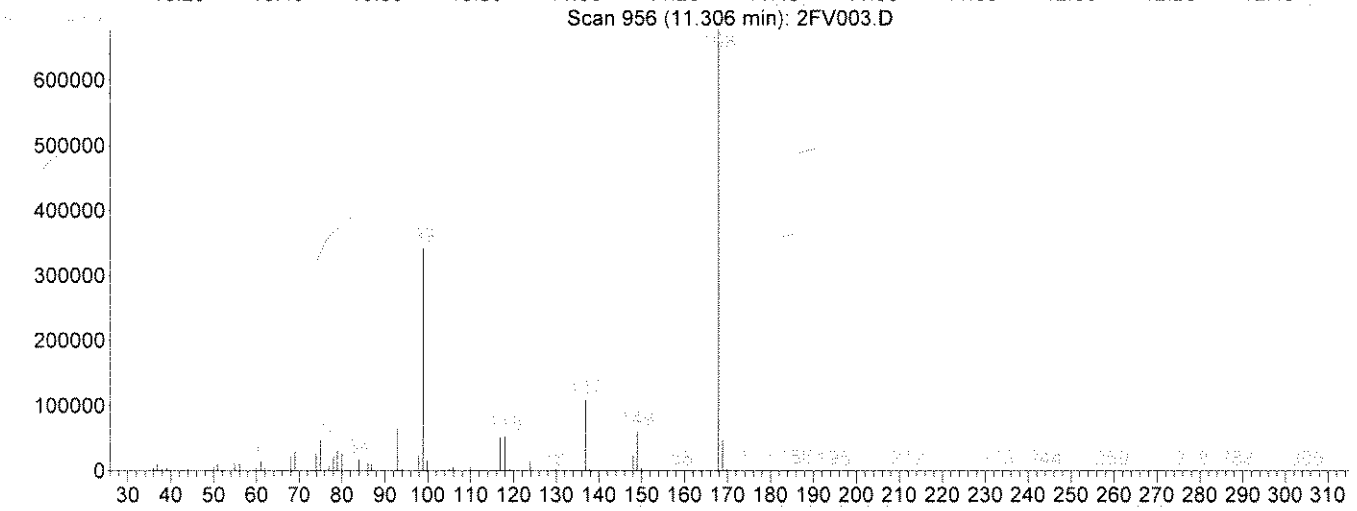


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:12 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg

response 1470970

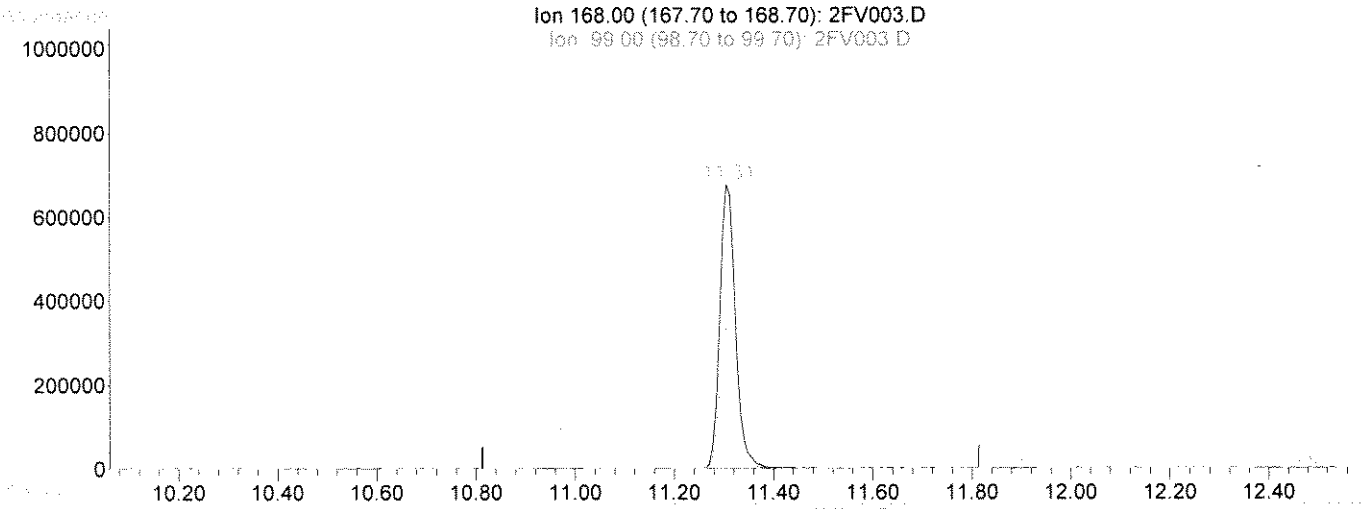
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	47.87
169.00	6.50	6.60
0.00	0.00	0.00

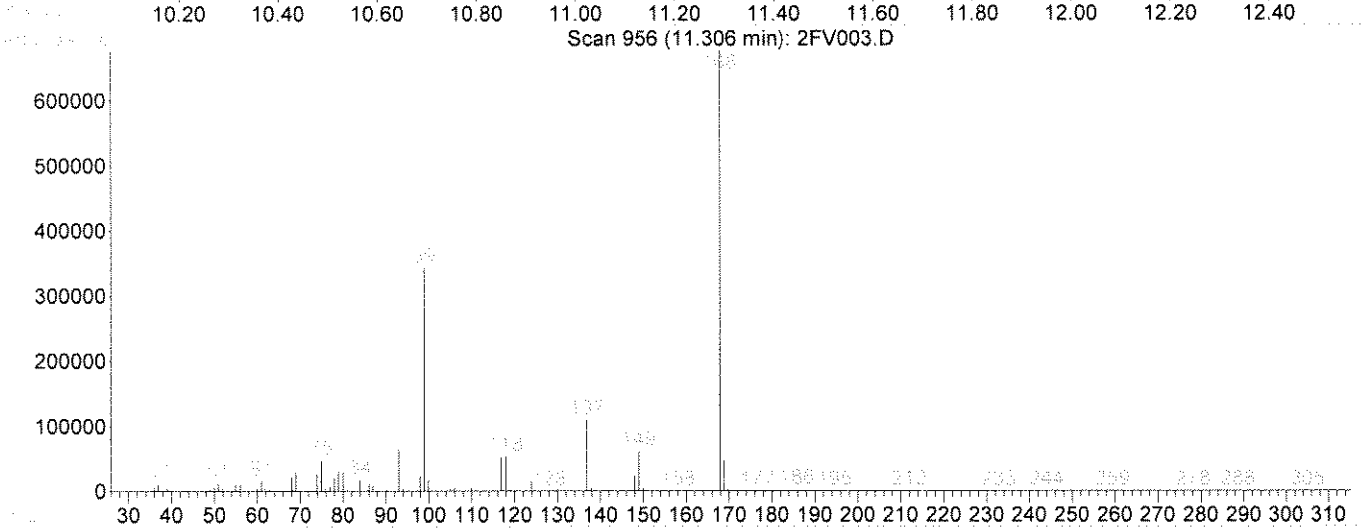
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date UCde 128/13
Review by/Date: KJ 6.28.13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg m

response 1470467

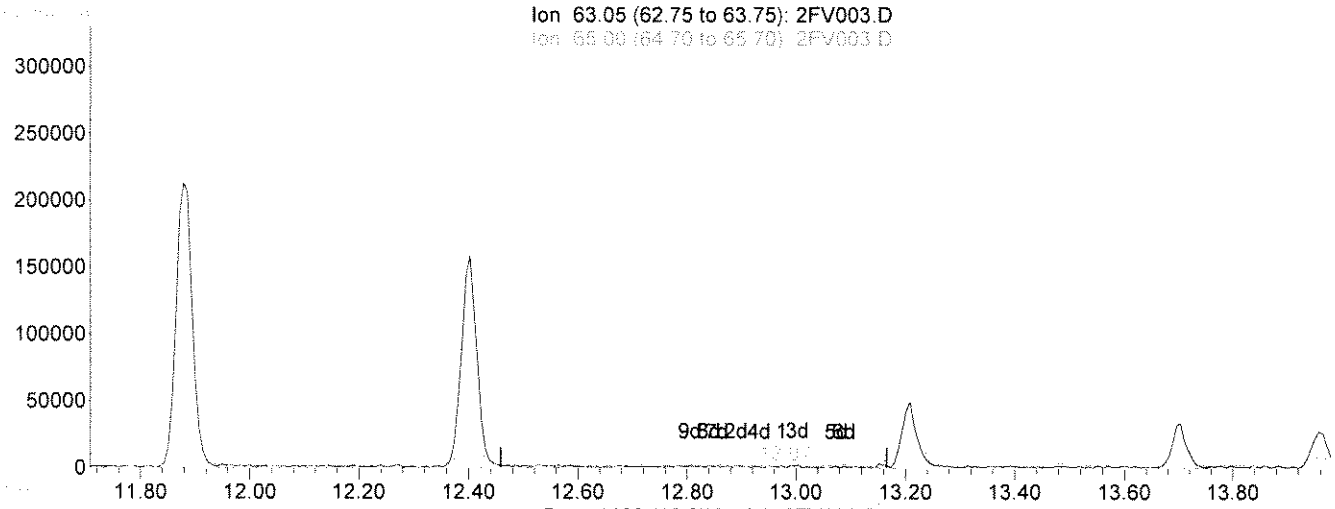
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	47.88
169.00	6.50	6.60
0.00	0.00	0.00

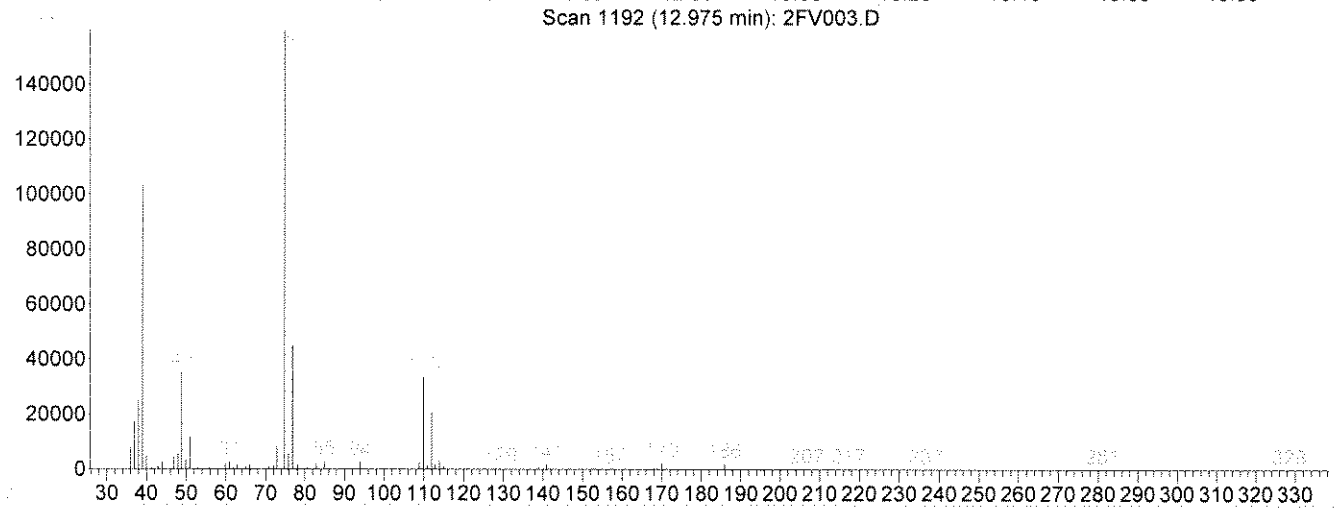
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date KT 06/28/13
Review by/Date: KB 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV003.D

(53) 2-Chloroethyl vinyl ether

12.97min 6.94ug/kg

response 2507

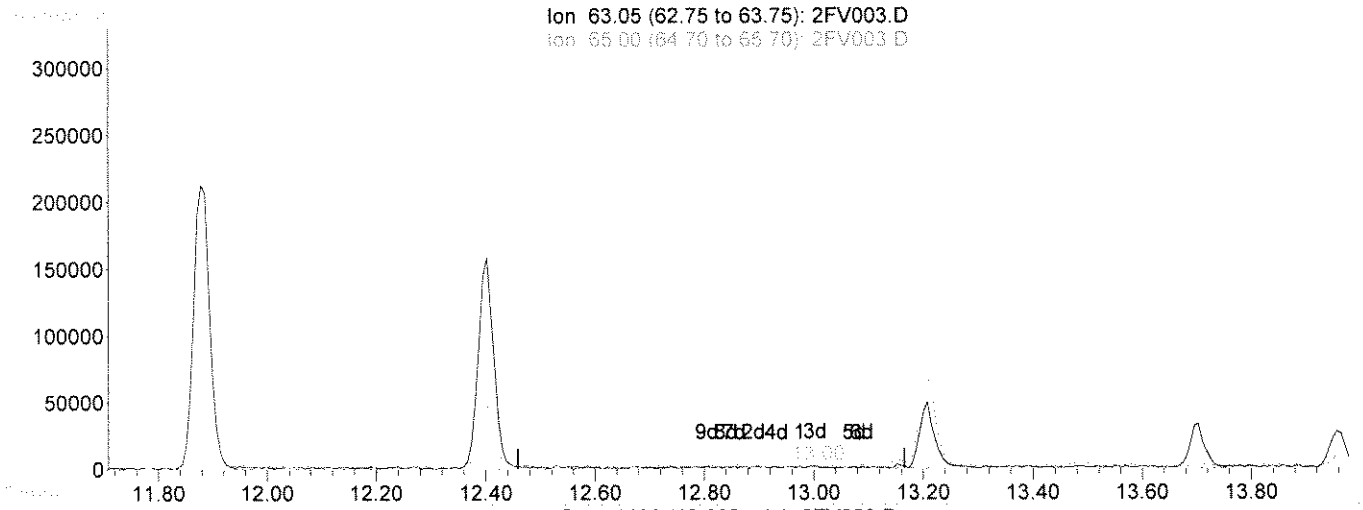
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	56.68
106.05	26.70	3.47
0.00	0.00	0.00

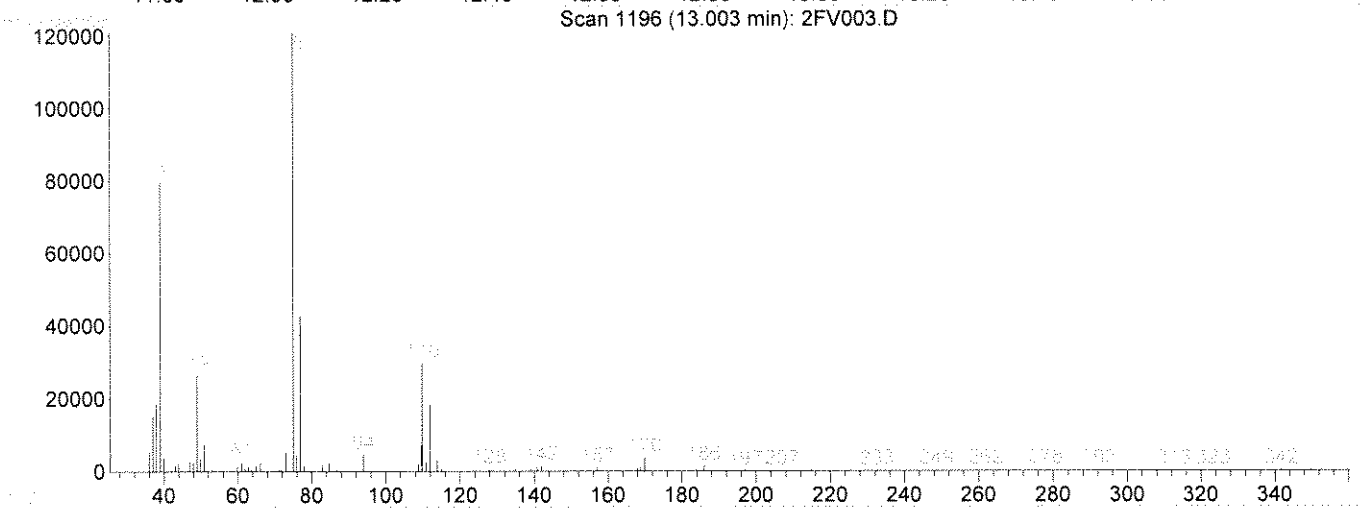
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/28/13
Review by/Date: 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV003.D Vial: 3
Acq On : 27 Jun 2013 14:25 Operator: kat
Sample : 3f27024-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV003.D

(53) 2-Chloroethyl vinyl ether

13.00min 13.06ug/kg m

response 4718

Ion	Exp%	Act%
63.05	100	100
65.00	34.80	30.12
106.05	26.70	1.84
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LKD 62813
Review by/Date: KS 1-28-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:24 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Ve 6/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1445900m	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	2021849	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1727474m	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.88	152	902538	50.00	ug/kg	-0.01
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	766338	50.27	ug/kg	-0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 100.54%			
44) 1,2-Dichloroethane-d4	11.47	65	855725	50.96	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 101.92%			
56) D8-Toluene	13.16	98	2435362	51.51	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 103.02%			
77) Bromofluorobenzene	15.67	95	1010137	52.45	ug/kg	-0.01
Spiked Amount 50.000	Range 71 - 126		Recovery = 104.90%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.83	85	378541	19.20	ug/kg	76
3) Chloromethane	5.38	50	416101	18.06	ug/kg	99
4) Vinyl Chloride	5.61	62	362577	16.86	ug/kg	52
5) Bromomethane	6.40	94	152568	19.07	ug/kg	95
6) Chloroethane	6.66	64	170805	19.89	ug/kg	81
7) Trichlorofluoromethane	6.96	101	355887	19.31	ug/kg	99
8) Trichlorotrifluoroethane	7.94	101	196656	17.68	ug/kg	97
9) acrolein	8.43	56	229420	89.88	ug/kg	100
10) Acetone	8.86	43	355939	47.59	ug/kg	97
11) 1,1-Dichloroethene	7.89	96	170899	18.54	ug/kg	96
12) 3-Chloropropene	8.63	76	147092	17.02	ug/kg	89
13) Acetonitrile	9.51	41	45198	16.72	ug/kg	90
14) Iodomethane	8.16	142	327537	16.64	ug/kg	92
15) Carbon disulfide	7.98	76	684475	16.97	ug/kg	96
16) Methylene Chloride	8.78	84	282444	16.95	ug/kg	90
17) Methyl tert-butyl ether	9.14	73	813405	17.97	ug/kg	96
18) Acrylonitrile	9.88	53	120837	17.61	ug/kg	96
19) T-1,2-Dichloroethene	9.01	96	253968	16.54	ug/kg	98
20) Isopropyl Ether	9.59	45	1109896	17.55	ug/kg	98
21) C-1,2-Dichloroethene	10.43	96	276369	17.12	ug/kg	96
22) 1,1-Dichloroethane	9.82	63	499621	17.61	ug/kg	97
23) Vinyl Acetate	10.04	43	584351	11.17	ug/kg	94
24) Chloroprene	9.78	53	431833	19.10	ug/kg	80
25) 2-Butanone	11.02	72	100805	45.84	ug/kg	91
26) Propionitrile	11.35	54	49605	18.66	ug/kg	100
27) 2,2-Dichloropropane	10.57	77	362007	16.84	ug/kg	98
28) Methacrylonitrile	11.37	67	130461	19.70	ug/kg#	6
29) Chloroform	10.70	83	463546	18.12	ug/kg	93
31) Dibromofluoromethane	10.90	113	766338	50.27	ug/kg	100
32) Bromochloromethane	10.67	128	153386	17.75	ug/kg	83
33) 1,1,1-Trichloroethane	10.96	97	327150	17.00	ug/kg#	97
34) 1,1-Dichloropropene	11.08	75	333836	16.08	ug/kg	93
35) Diethyl ether	7.54	59	206259	19.01	ug/kg	93
36) Methyl Acetate	9.00	74	67178	20.71	ug/kg	93
37) Cyclohexane	10.68	56	411008	15.46	ug/kg	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:24 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Methyl Cyclohexane	11.90	55	355829	15.29	ug/kg#	81
40)	Carbon Tetrachloride	10.89	117	281220	17.17	ug/kg	99
41)	1,2-Dichloroethane	11.54	62	380321	18.61	ug/kg	93
42)	Benzene	11.34	78	936247	17.85	ug/kg	93
43)	Isobutyl Alcohol	11.38	43	331671	181.73	ug/kg#	63
45)	1,2-Dichloroethane-d4	11.47	65	855725	50.96	ug/kg	94
46)	Trichloroethene	11.89	130	254504	17.59	ug/kg	90
47)	1,2-Dichloropropane	12.41	63	269169	17.31	ug/kg	87
48)	Methyl Methacrylate	12.48	100	97807	20.03	ug/kg#	1
49)	1,4-Dioxane	12.60	88	5615	24.14	ug/kg#	68
50)	Bromodichloromethane	12.43	83	370298	19.14	ug/kg#	100
51)	Dibromomethane	12.32	93	192401	18.79	ug/kg	82
52)	4-Methyl-2-Pentanone	13.49	100	135296	49.48	ug/kg	95
53)	2-Chloroethyl vinyl ether	12.99	63	5780m	16.27	ug/kg	79
54)	2-Hexanone	14.19	43	801589	47.81	ug/kg	96
55)	C-1,3-Dichloropropene	12.99	75	458539	17.50	ug/kg	80
57)	D8-Toluene	13.16	98	2435362	51.51	ug/kg	99
59)	Toluene	13.21	92	610705	18.90	ug/kg	99
60)	Ethyl Methacrylate	13.59	69	440915	20.24	ug/kg#	75
61)	T-1,3-Dichloropropene	13.54	75	464751	21.63	ug/kg	81
62)	1,1,2-Trichloroethane	13.70	97	249209	19.96	ug/kg	97
63)	1,3-Dichloropropane	13.96	76	463159	19.72	ug/kg	99
64)	Tetrachloroethene	13.57	164	215120	19.18	ug/kg	86
65)	Dibromochloromethane	13.89	129	337090	20.56	ug/kg	95
66)	1,2-Dibromoethane	14.15	107	284373	19.26	ug/kg	94
67)	Chlorobenzene	14.57	112	689911	18.43	ug/kg	91
68)	1,1,1,2-Tetrachloroethane	14.60	131	264674	18.95	ug/kg	88
69)	Ethylbenzene	14.53	106	324236	18.25	ug/kg	96
70)	m-xylene & p-xylene	14.65	106	828013	37.06	ug/kg	84
71)	O-Xylene	15.06	106	425503	18.20	ug/kg	97
72)	Bromoform	15.21	173	244740	19.18	ug/kg	92
73)	Styrene	15.11	104	704687	19.36	ug/kg	87
74)	Isopropylbenzene	15.33	105	1039833	17.90	ug/kg	100
75)	1,2,3-Trichloropropane	15.99	75	451532	19.52	ug/kg	99
76)	1,1,2,2-Tetrachloroethane	15.80	83	368606	18.69	ug/kg	97
78)	Bromofluorobenzene	15.67	95	1010137	52.45	ug/kg#	75
79)	T-1,4-dichloro-2-butene	15.98	53	114778	19.00	ug/kg#	61
80)	N-Propylbenzene	15.74	91	1252898	18.18	ug/kg	95
82)	Bromobenzene	15.82	156	324608	18.29	ug/kg	78
83)	1,3,5-Trimethylbenzene	15.89	105	826950	17.18	ug/kg	90
84)	2-Chlorotoluene	15.96	91	790264	16.82	ug/kg	99
85)	4-Chlorotoluene	16.13	91	814348	17.12	ug/kg	94
86)	1,2,4-Trimethylbenzene	16.33	105	808112	17.41	ug/kg	95
87)	s-Butylbenzene	16.46	105	1048972	16.28	ug/kg	92
88)	tert-Butylbenzene	16.27	119	733589	16.59	ug/kg	95
89)	p-Isopropyltoluene	16.58	119	844303	18.22	ug/kg	97
90)	1,3-Dichlorobenzene	16.81	146	564094	17.35	ug/kg	92
91)	1,4-Dichlorobenzene	16.90	146	563590	17.89	ug/kg	92
92)	1,2-Dichlorobenzene	17.46	146	550562	17.62	ug/kg	97
93)	N-Butylbenzene	17.09	91	754979	16.45	ug/kg	94
94)	DBCP	18.60	75	73985	18.33	ug/kg	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:24 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

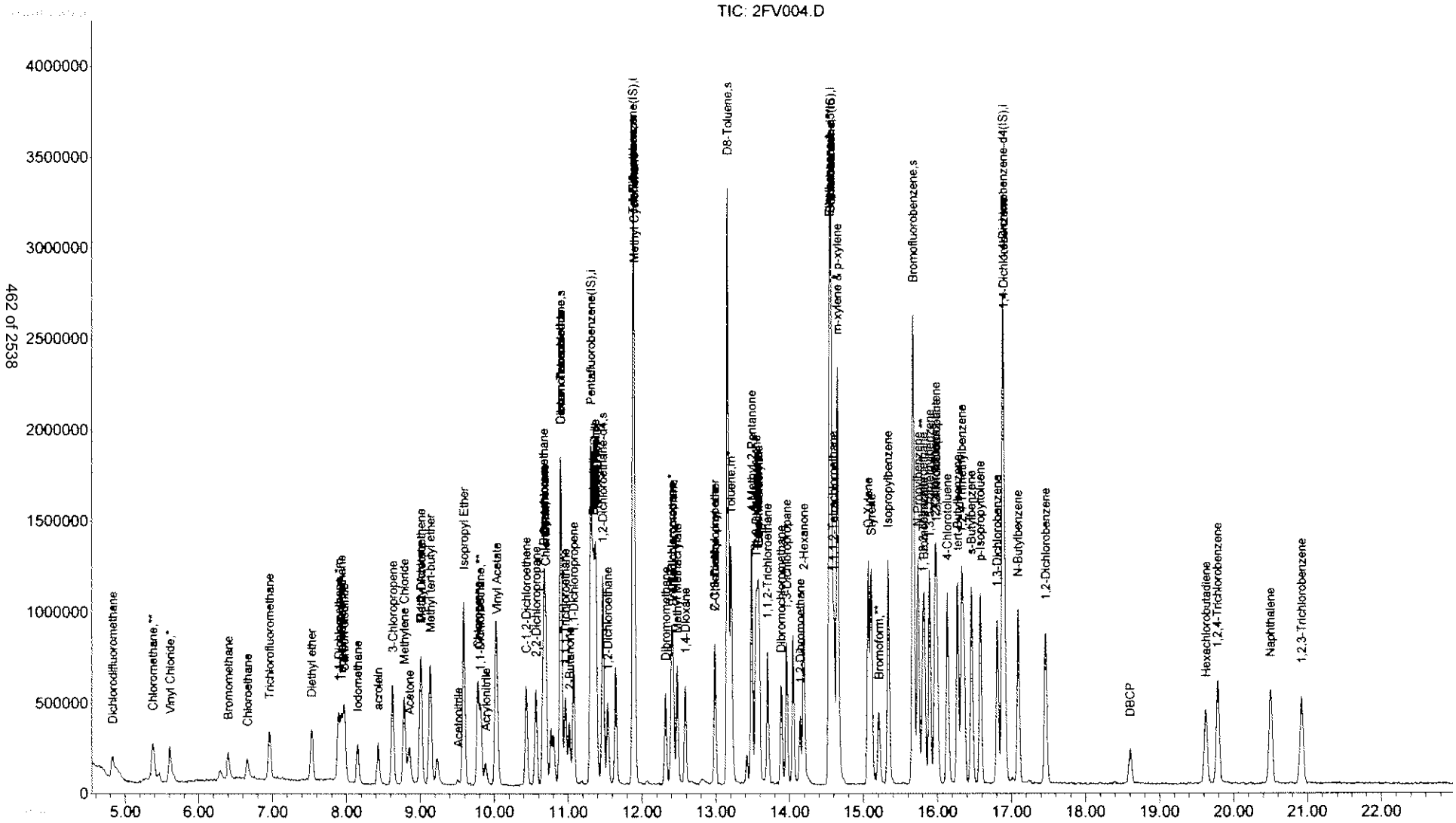
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.50	128	845027	20.68 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.79	180	344188	17.25 ug/kg	90
97) Hexachlorobutadiene	19.63	225	150361	14.27 ug/kg	98
98) 1,2,3-Trichlorobenzene	20.92	180	319146	17.67 ug/kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:24 2013 Quant Results File: S1306004.RES

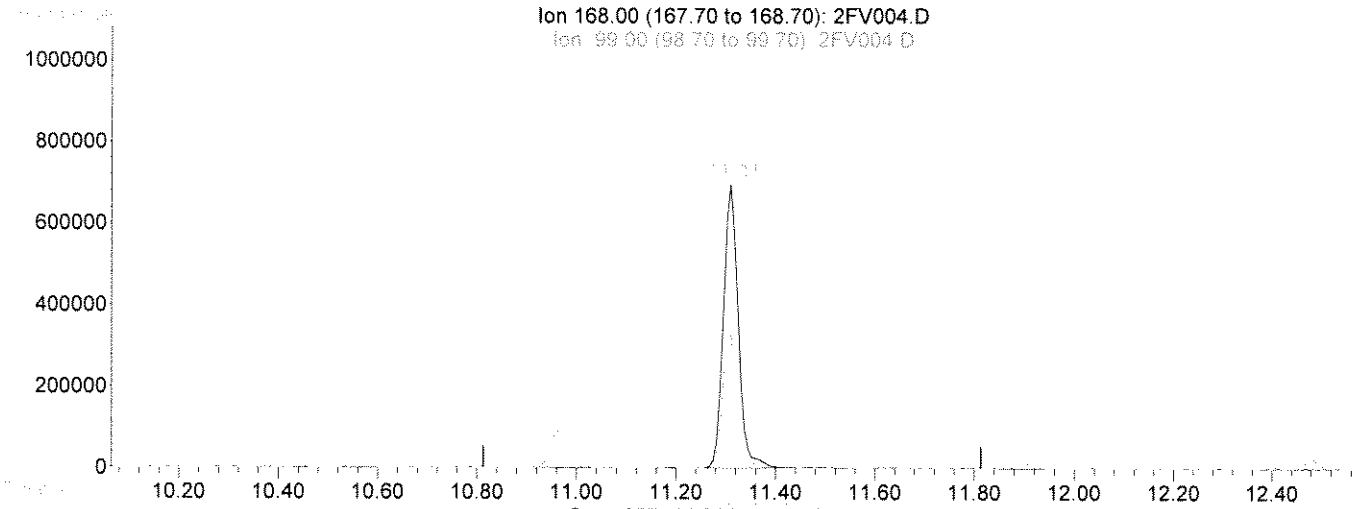
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Initial Calibration

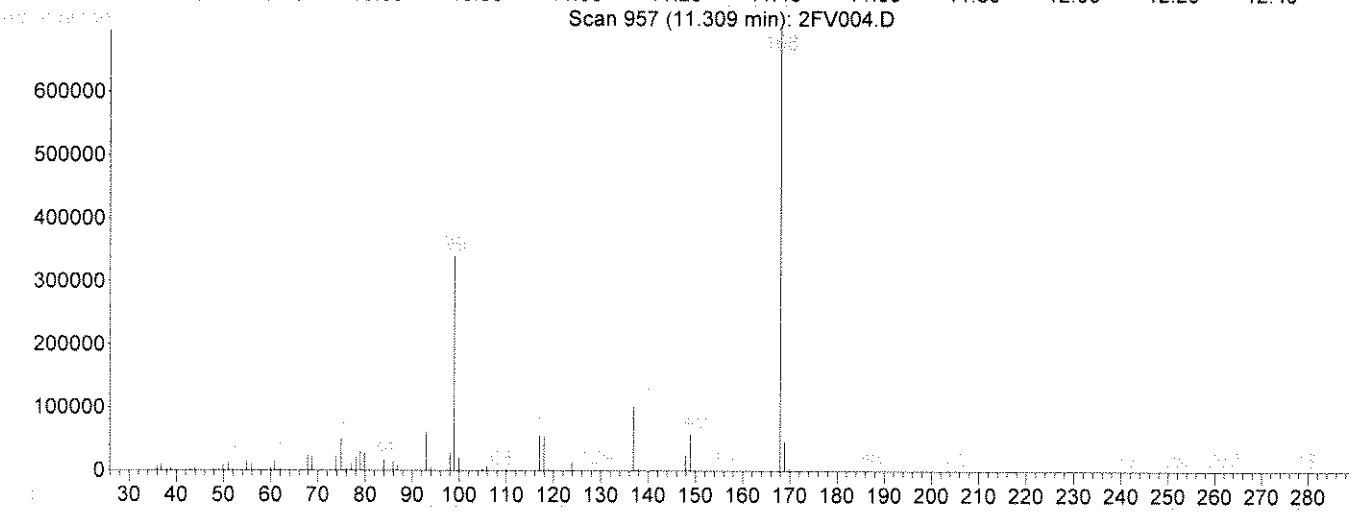


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:22 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV004.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg

response 1460955

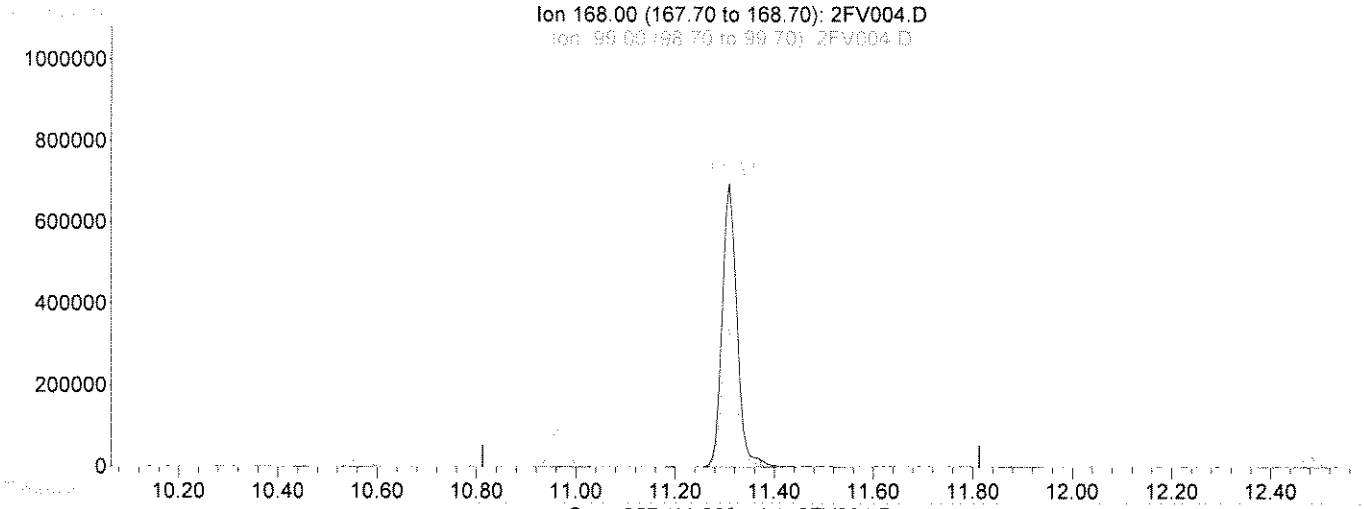
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	48.03
169.00	6.50	6.81
0.00	0.00	0.00

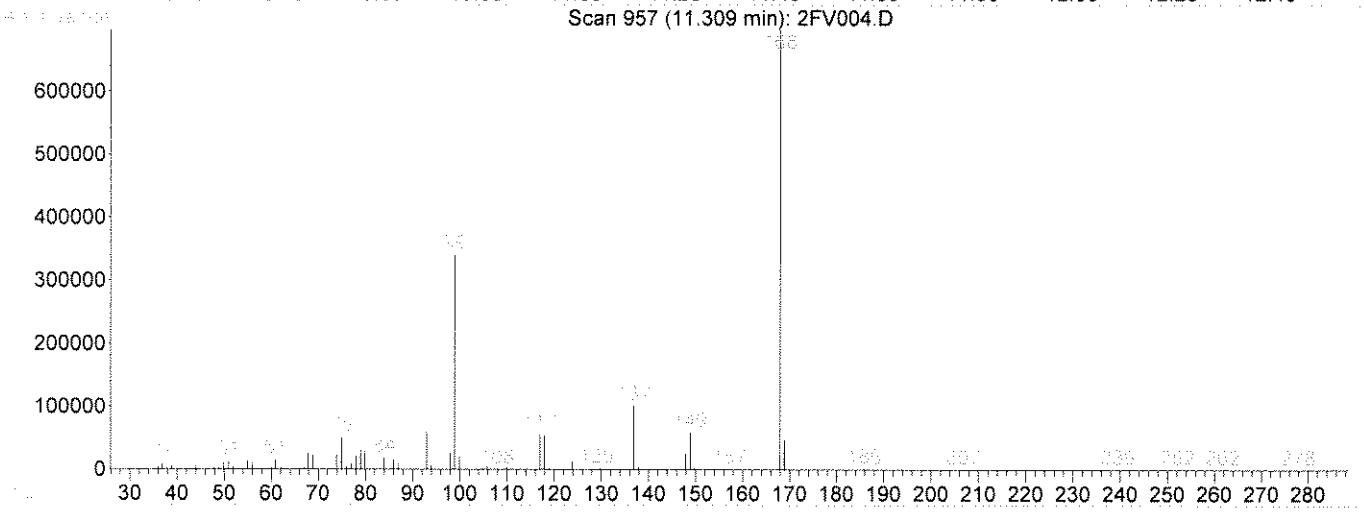
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: VT 06/28/13
Review by/Date: KB 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:23 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV004.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg m

response 1445900

Ion	Exp%	Act%
168.00	100	100
99.00	56.00	48.53
169.00	6.50	6.88
0.00	0.00	0.00

Select One:

[] Original Integration [✓] Manual Integration

Select reason for manual integration:

[] Poor integration (peak tailing, baseline selection)

[] Incorrect peak selection/Peak not found

[] Hump integration

[] Baseline drop for split peaks

[✓] ISTD reintegration

[] Other:

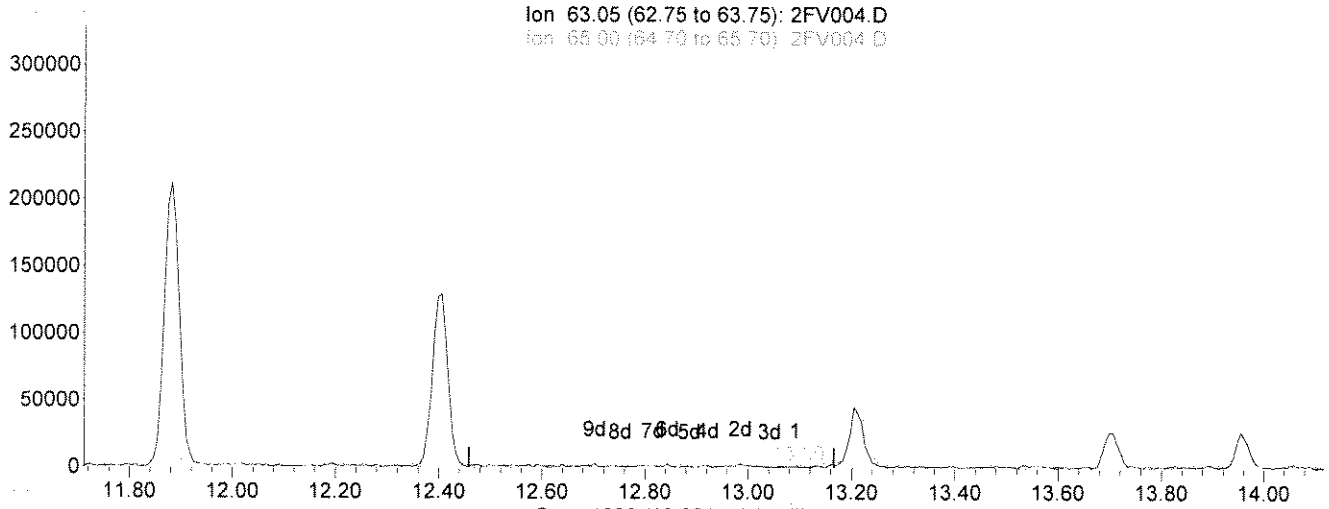
Review by/Date: 06/28/13

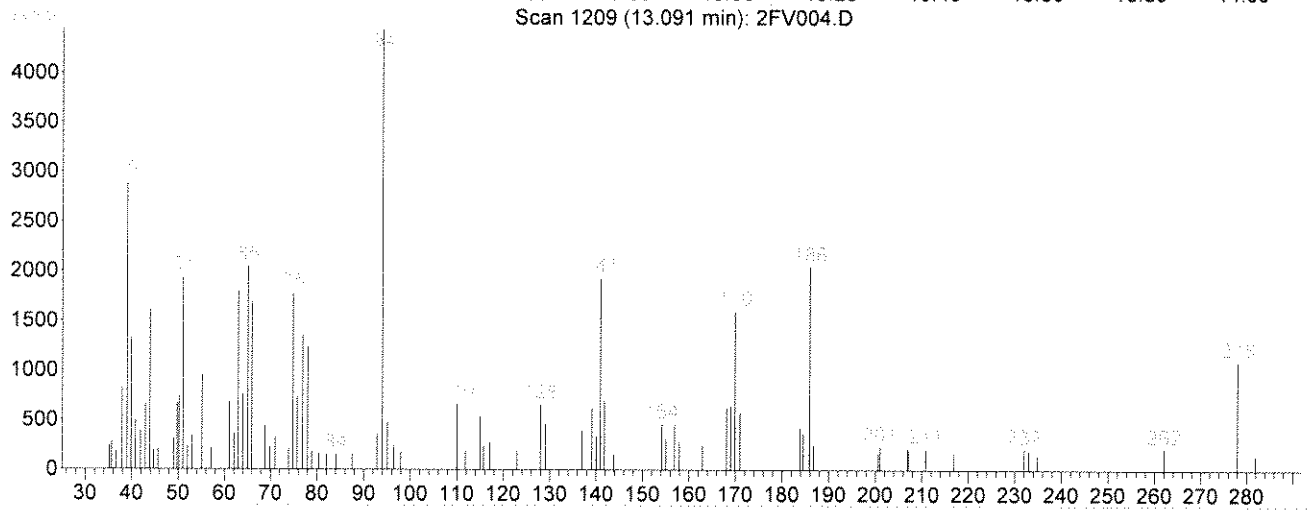
Review by/Date: 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:23 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV004.D

(53) 2-Chloroethyl vinyl ether

13.09min 7.07ug/kg

response 2511

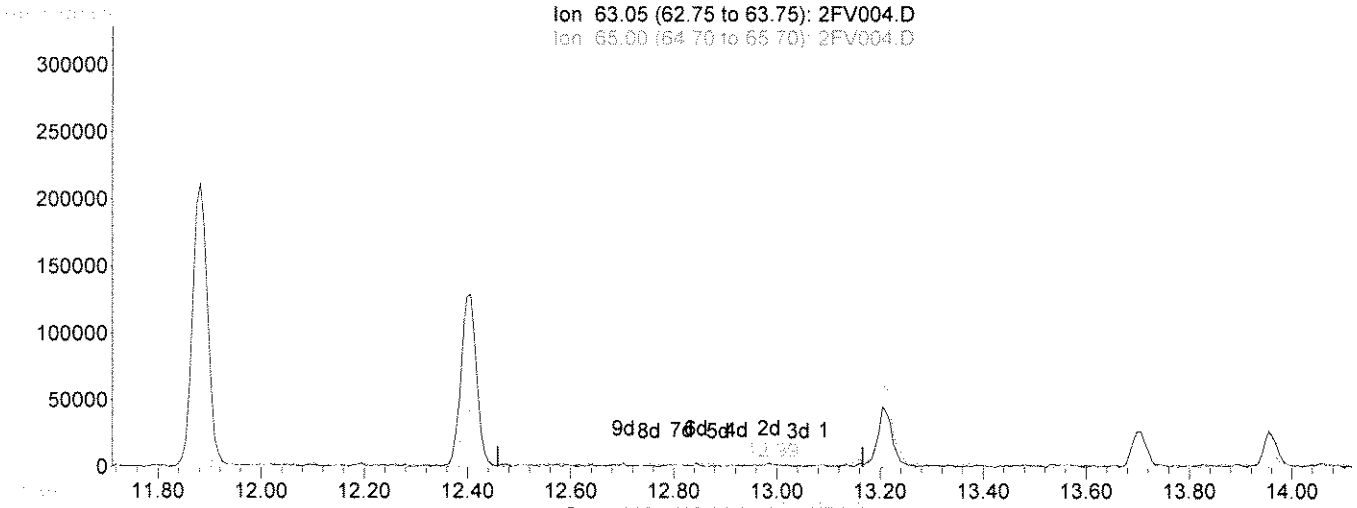
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	35.40
106.05	26.70	2.95
0.00	0.00	0.00

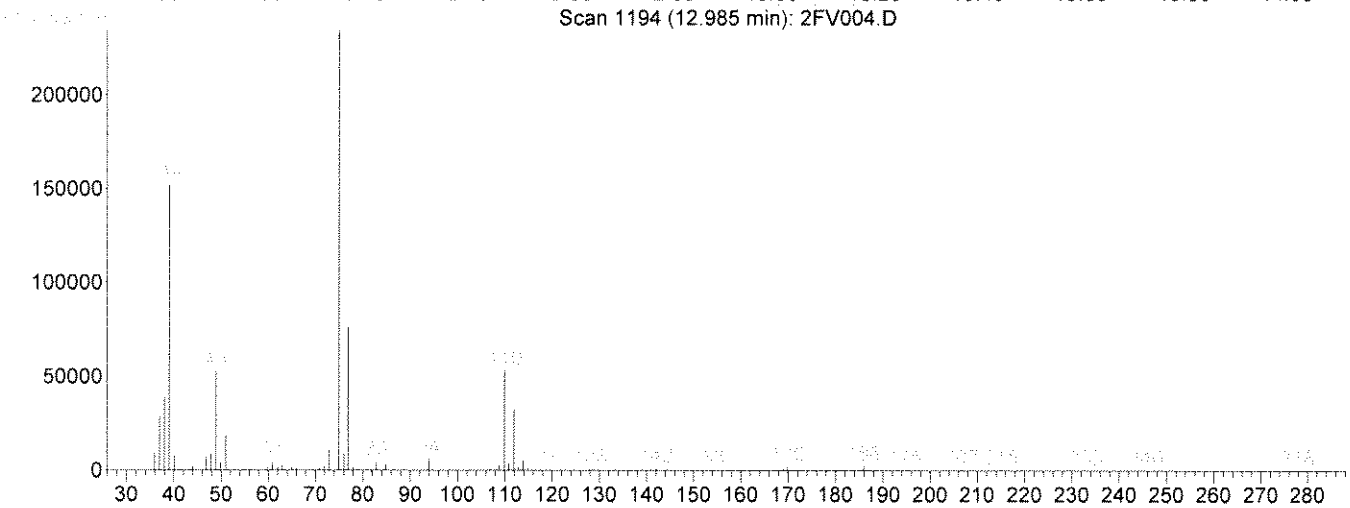
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LR 6/28/13
Review by/Date: LB 8-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:23 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV004.D

(53) 2-Chloroethyl vinyl ether

12.99min 16.27ug/kg m

response 5780

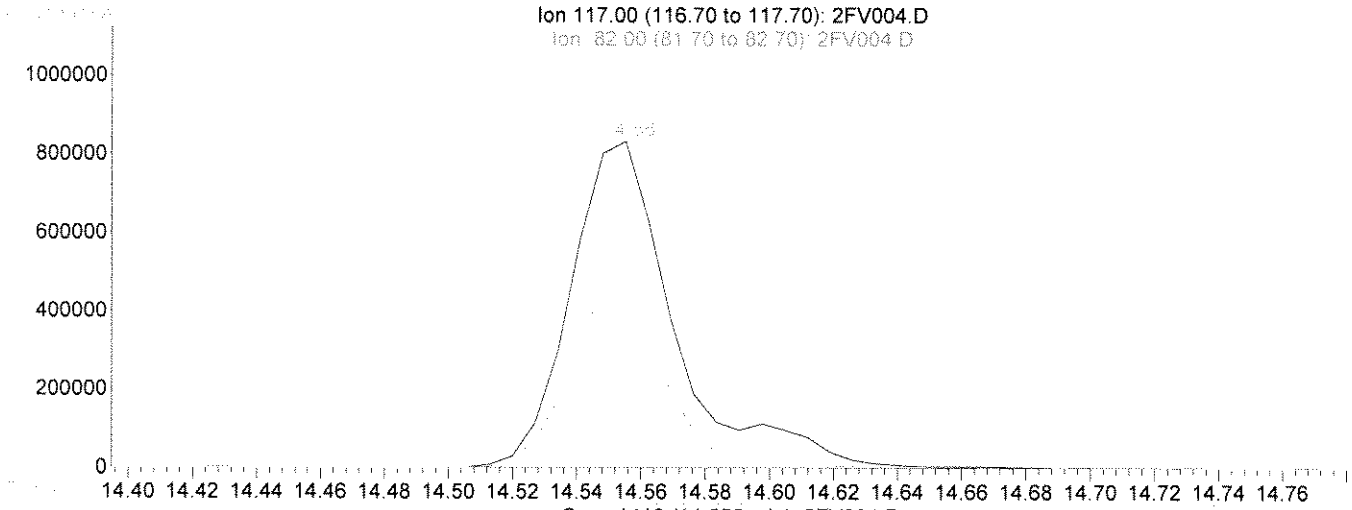
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	15.38
106.05	26.70	1.28
0.00	0.00	0.00

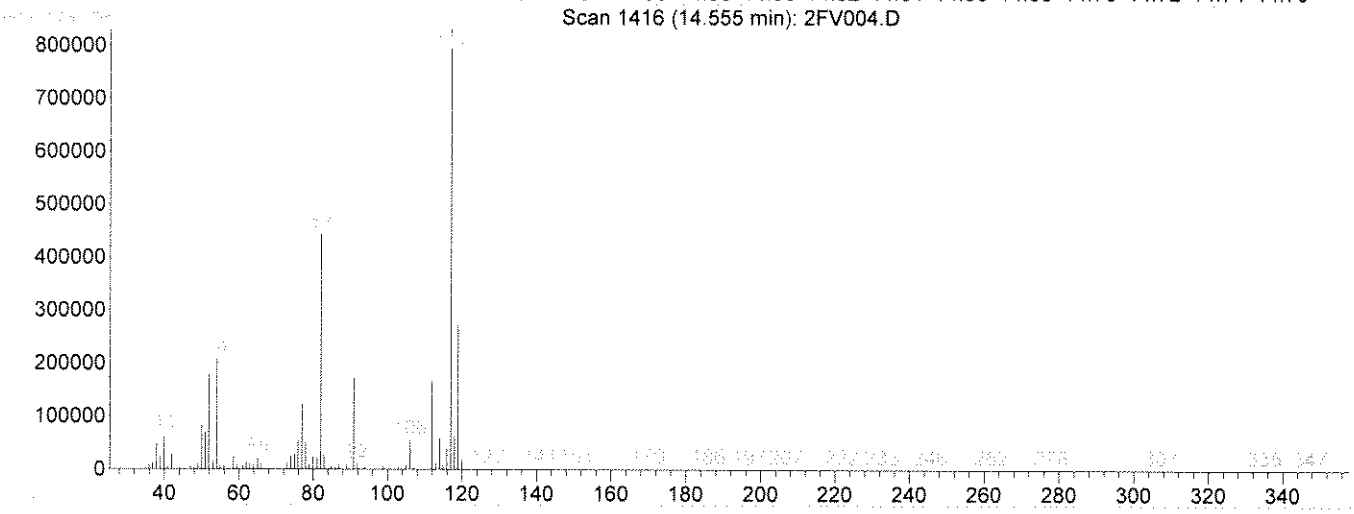
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LT 06/28/13
Review by/Date: KS 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:23 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV004.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/kg

response 1894867

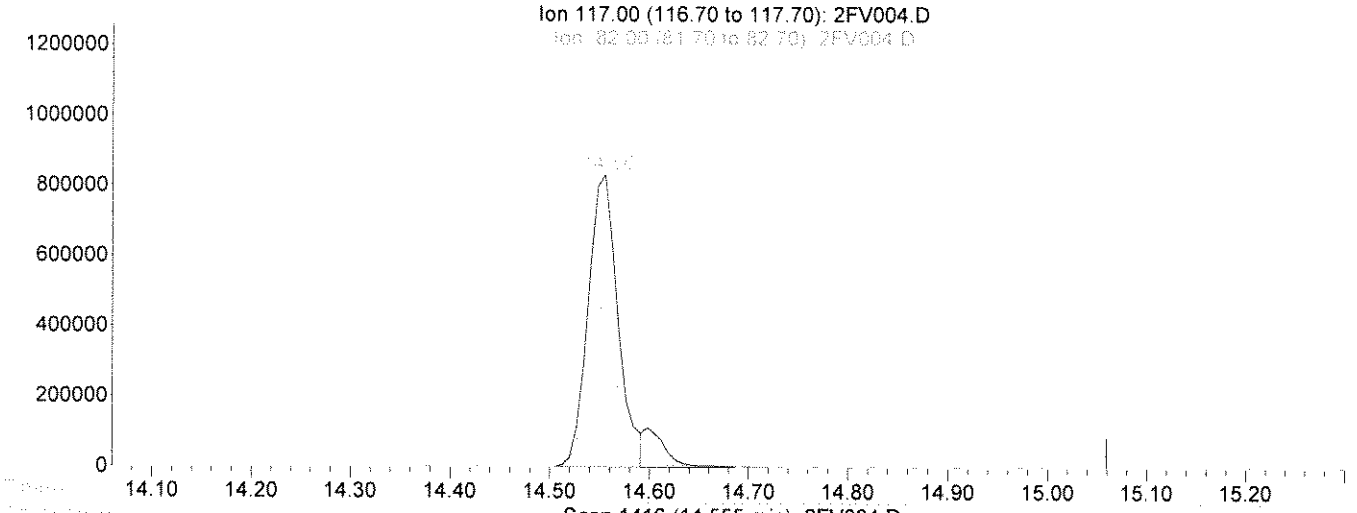
Ion	Exp%	Act%
117.00	100	100
82.00	59.20	49.83
119.00	32.40	30.10
0.00	0.00	0.00

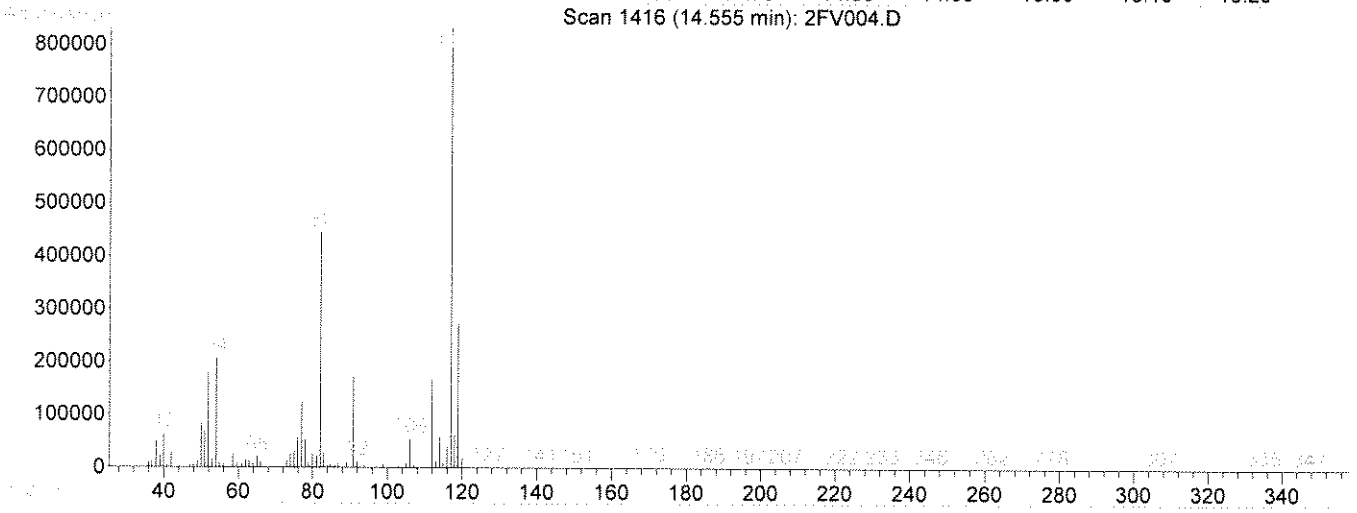
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 062813
Review by/Date: 6-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV004.D Vial: 4
Acq On : 27 Jun 2013 14:59 Operator: kat
Sample : 3f27024-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 15:24 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV004.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/kg m

response 1727474

Ion	Exp%	Act%
117.00	100	100
82.00	59.20	54.66
119.00	32.40	33.02
0.00	0.00	0.00

Select One:
[] Original Integration ✓[] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date [illegible]
Review by/Date: [illegible] 6-28-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV006.D Vial: 6
Acq On : 27 Jun 2013 16:11 Operator: kat
Sample : 3f27024-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 16:39 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

CEJ 6/27/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1378524	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1921966	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1633411	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	803711	50.00 ug/kg	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	794500	54.66 ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 109.32%		
44) 1,2-Dichloroethane-d4	11.47	65	875941	54.88 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 109.76%		
56) D8-Toluene	13.16	98	2441977	54.33 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 108.66%		
77) Bromofluorobenzene	15.67	95	998951	54.86 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 109.72%		

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D. d	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D. d	
6) Chloroethane	0.00	64	N.D. d	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D. d	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D. d	
15) Carbon disulfide	0.00	76	N.D. d	
16) Methylene Chloride	0.00	84	N.D. d	
17) Methyl tert-butyl ether	0.00	73	N.D. d	
18) Acrylonitrile	0.00	53	N.D. d	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D.	
26) Propionitrile	0.00	54	N.D. d	
27) 2,2-Dichloropropane	0.00	77	N.D.	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	10.90	113	794500	54.66 ug/kg 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D.	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV006.D Vial: 6
Acq On : 27 Jun 2013 16:11 Operator: kat
Sample : 3f27024-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 16:39 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D.	
45) 1,2-Dichloroethane-d4	11.47	65	875941	54.88 ug/kg	93
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D. d	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2441977	54.33 ug/kg	99
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D. d	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	998951	54.86 ug/kg#	82
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D. d	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D. d	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D. d	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
87) s-Butylbenzene	0.00	105		N.D. d	
88) tert-Butylbenzene	0.00	119		N.D. d	
89) p-Isopropyltoluene	0.00	119		N.D. d	
90) 1,3-Dichlorobenzene	0.00	146		N.D. d	
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) 1,2-Dichlorobenzene	0.00	146		N.D. d	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV006.D Vial: 6
Acq On : 27 Jun 2013 16:11 Operator: kat
Sample : 3f27024-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 27 16:39 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
97) Hexachlorobutadiene	0.00	225		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

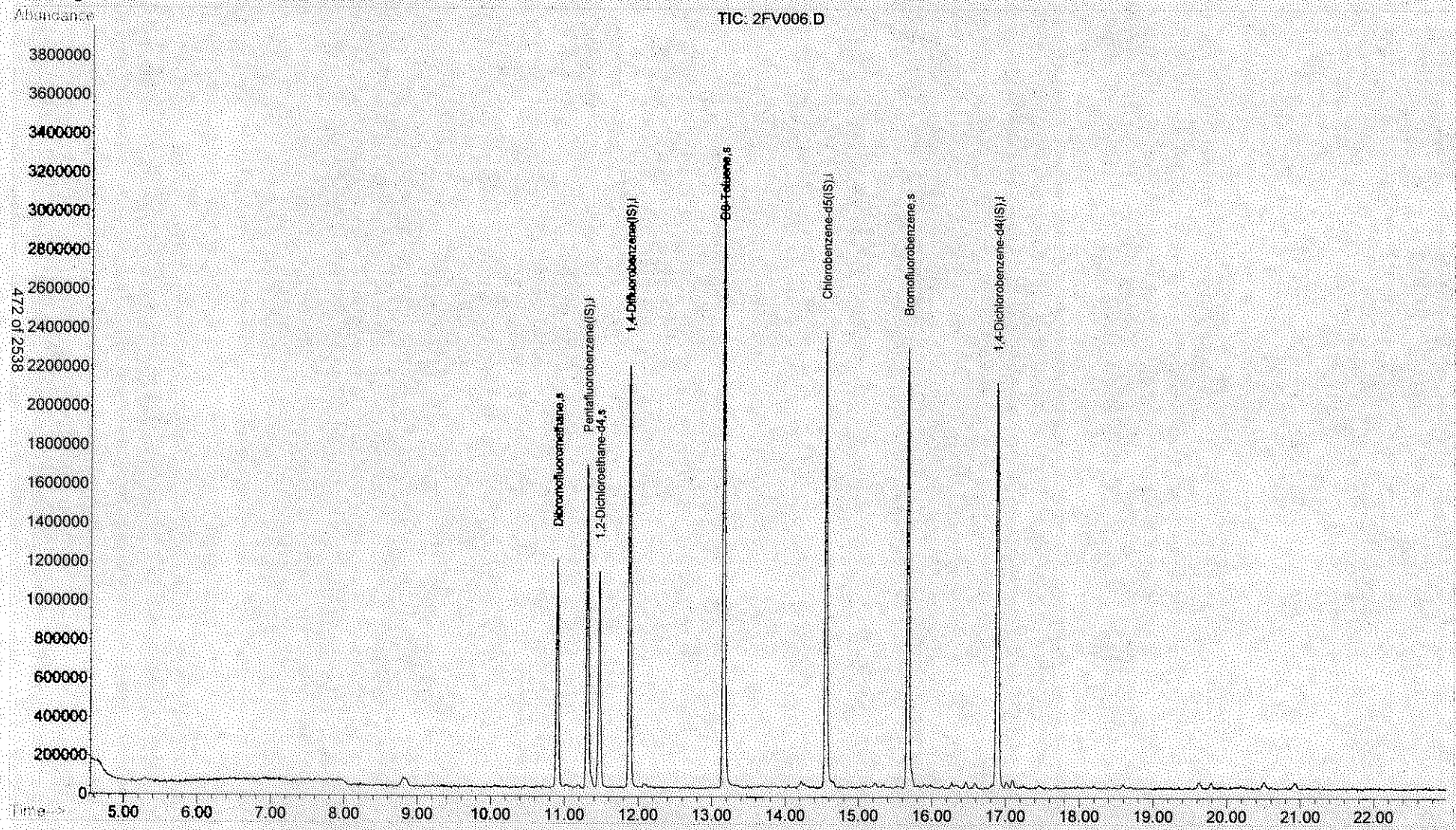
Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV006.D
Acq On : 27 Jun 2013 16:11
Sample : 3f27024-blk1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 27 16:39 2013

Vial: 6
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 16:11
Data File: C:\HPCHEM\1\DATA\062713\2FV006.D
Name: 3f27024-blk1
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV006.D S1306004.M Fri Jun 28 09:52:27 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV006.D Vial: 6
Acq On : 27 Jun 2013 16:11 Operator: kat
Sample : 3f27024-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

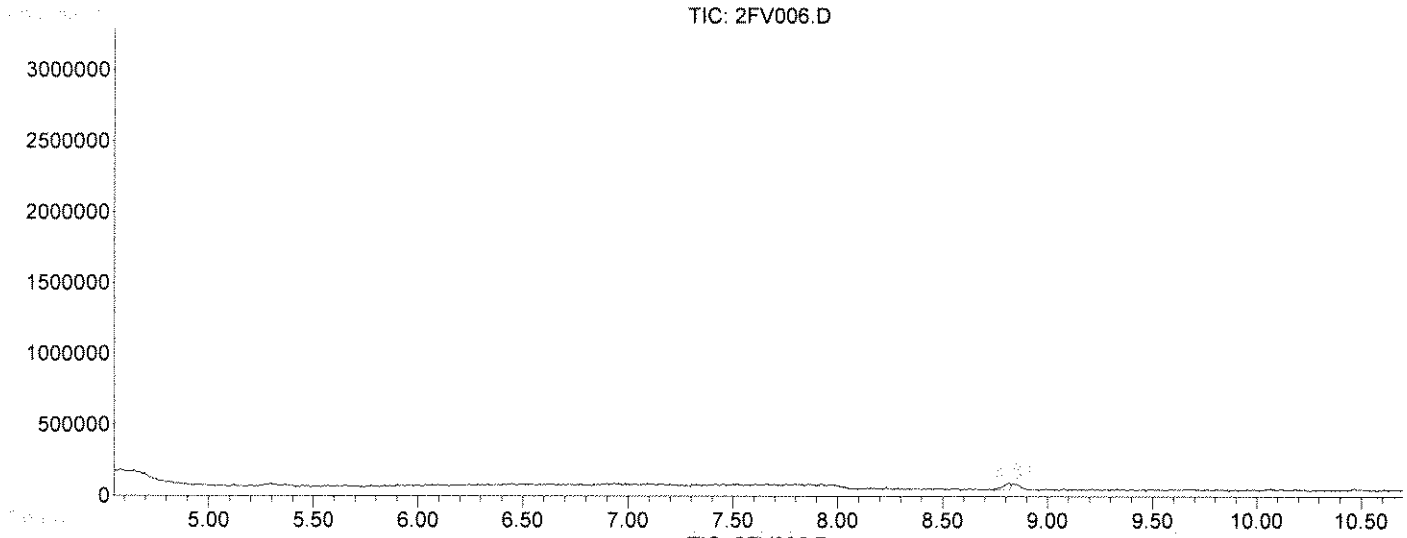
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.810	592	603	605	rBV6	48297	139905	2.07%	0.397%
2	10.904	892	899	909	rVB2	1173563	2542177	37.60%	7.218%
3	11.307	949	956	970	rBV	1668478	3685801	54.51%	10.465%
4	11.469	972	979	990	rVV	1110910	2398904	35.48%	6.811%
5	11.880	1031	1037	1049	rBV	2168077	4363944	64.54%	12.390%
6	13.160	1209	1218	1230	rBV	3251395	6761154	100.00%	19.197%
7	14.220	1359	1368	1372	rBV	40075	119346	1.77%	0.339%
8	14.553	1409	1415	1425	rBV	2341534	4855652	71.82%	13.786%
9	15.670	1564	1573	1586	rBV	2264254	4919544	72.76%	13.968%
10	16.589	1698	1703	1711	rVB4	29060	79188	1.17%	0.225%
11	16.886	1738	1745	1758	rVB	2078144	4861638	71.91%	13.803%
12	17.014	1758	1763	1770	rBV7	31185	77786	1.15%	0.221%
13	17.092	1770	1774	1781	rVB5	40002	97041	1.44%	0.276%
14	19.786	2150	2155	2162	rVB9	30809	85893	1.27%	0.244%
15	20.500	2248	2256	2264	rBV4	35113	125057	1.85%	0.355%
16	20.932	2308	2317	2323	rBV4	30429	107594	1.59%	0.305%

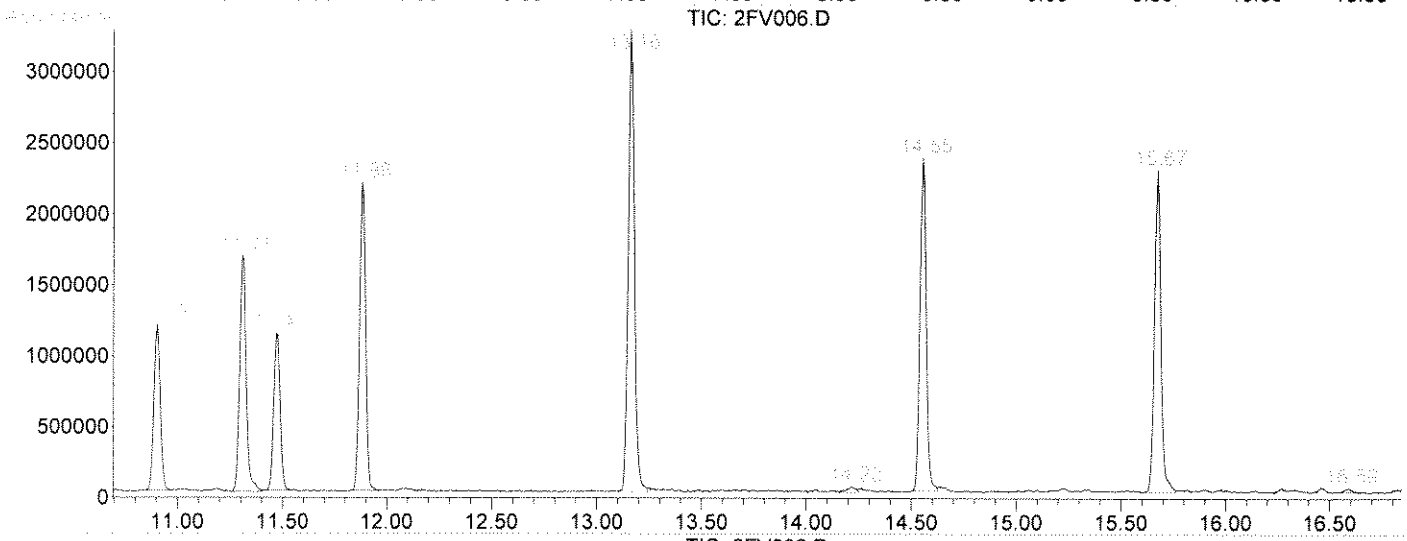
Sum of corrected areas: 35220624

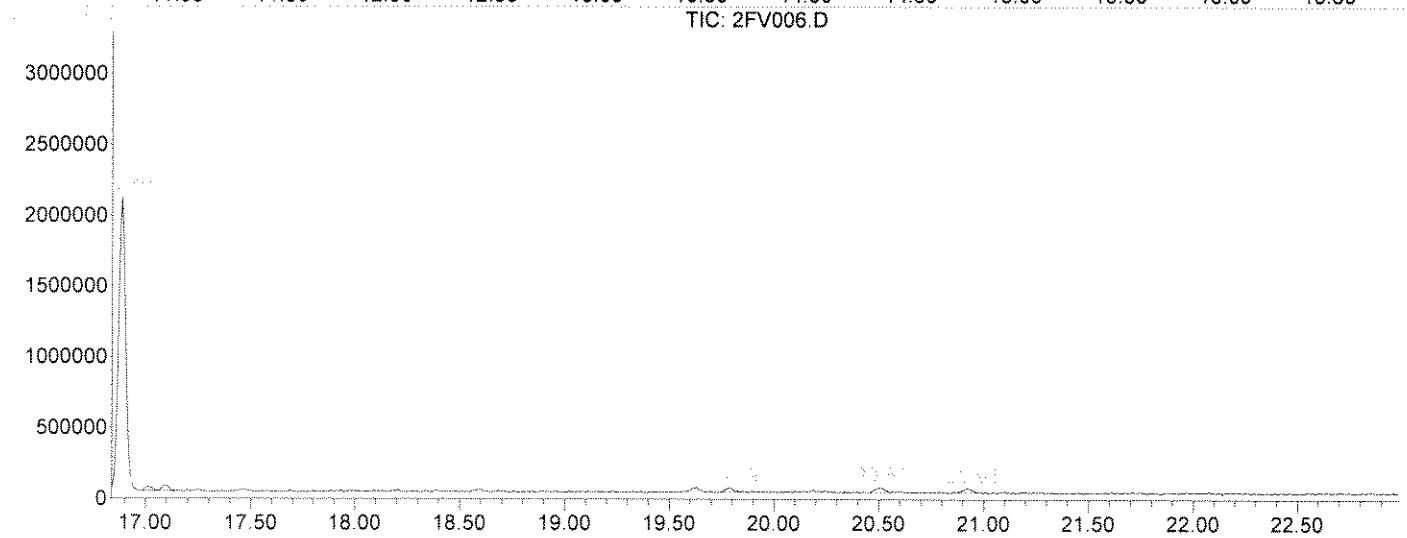
2FV006.D S1306004.M Fri Jun 28 09:52:26 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV006.D
Operator : kat
Acquired : 27 Jun 2013 16:11 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: 3f27024-blk1
Misc Info :
Vial Number: 6
Quant File :S1306004.RES (RTE Integrator)







2FV006.D S1306004.M Fri Jun 28 09:52:27 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV007.D Vial: 7
Acq On : 27 Jun 2013 16:47 Operator: kat
Sample : a303499-06 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LETC 6/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1446043	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	2055468	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1718236	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	885679	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	792789	52.00	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 104.00%			
44) 1,2-Dichloroethane-d4	11.47	65	894911	52.42	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 104.84%			
56) D8-Toluene	13.16	98	2421628	50.38	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 100.76%			
77) Bromofluorobenzene	15.67	95	980268	51.18	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 102.36%			

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D.	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D. d	
6) Chloroethane	0.00	64	N.D.	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D. d	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D. d	
15) Carbon disulfide	0.00	76	N.D.	
16) Methylene Chloride	0.00	84	N.D. d	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D. d	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D. d	
26) Propionitrile	0.00	54	N.D.	
27) 2,2-Dichloropropane	0.00	77	N.D.	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	10.91	113	792789	52.00 ug/kg 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D. d	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV007.D Vial: 7
Acq On : 27 Jun 2013 16:47 Operator: kat
Sample : a303499-06 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D.	
45) 1,2-Dichloroethane-d4	11.47	65	894911	52.42 ug/kg	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2421628	50.38 ug/kg	99
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	980268	51.18 ug/kg#	81
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D. d	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
87) s-Butylbenzene	0.00	105		N.D. d	
88) tert-Butylbenzene	0.00	119		N.D. d	
89) p-Isopropyltoluene	0.00	119		N.D. d	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D. d	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV007.D Vial: 7
Acq On : 27 Jun 2013 16:47 Operator: kat
Sample : a303499-06 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
97) Hexachlorobutadiene	0.00	225		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

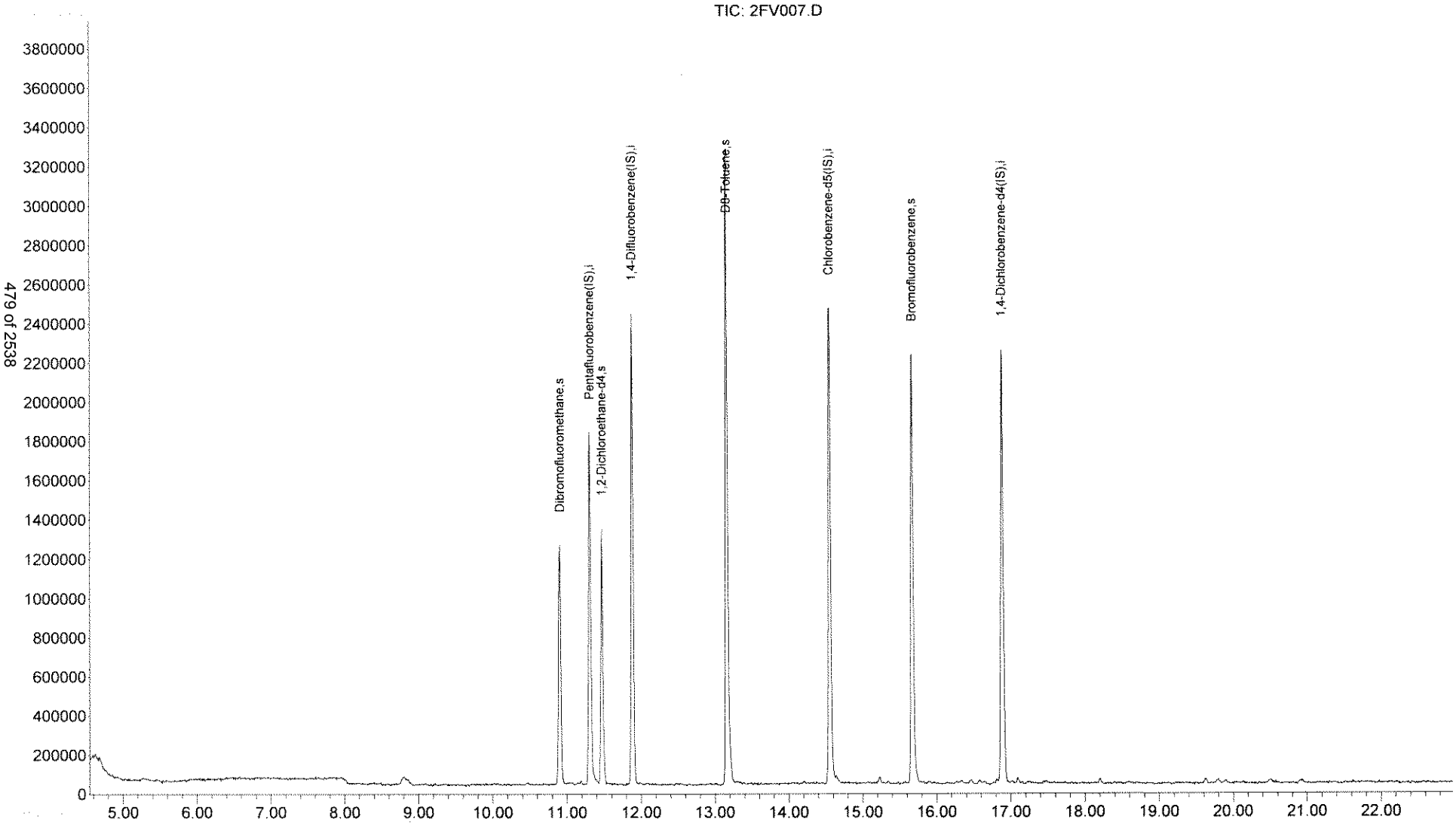
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV007.D
Acq On : 27 Jun 2013 16:47
Sample : a303499-06
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013

Vial: 7
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 16:47
Data File: C:\HPCHEM\1\DATA\062713\2FV007.D
Name: a303499-06
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV007.D S1306004.M Fri Jun 28 09:53:21 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV007.D Vial: 7
Acq On : 27 Jun 2013 16:47 Operator: kat
Sample : a303499-06 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

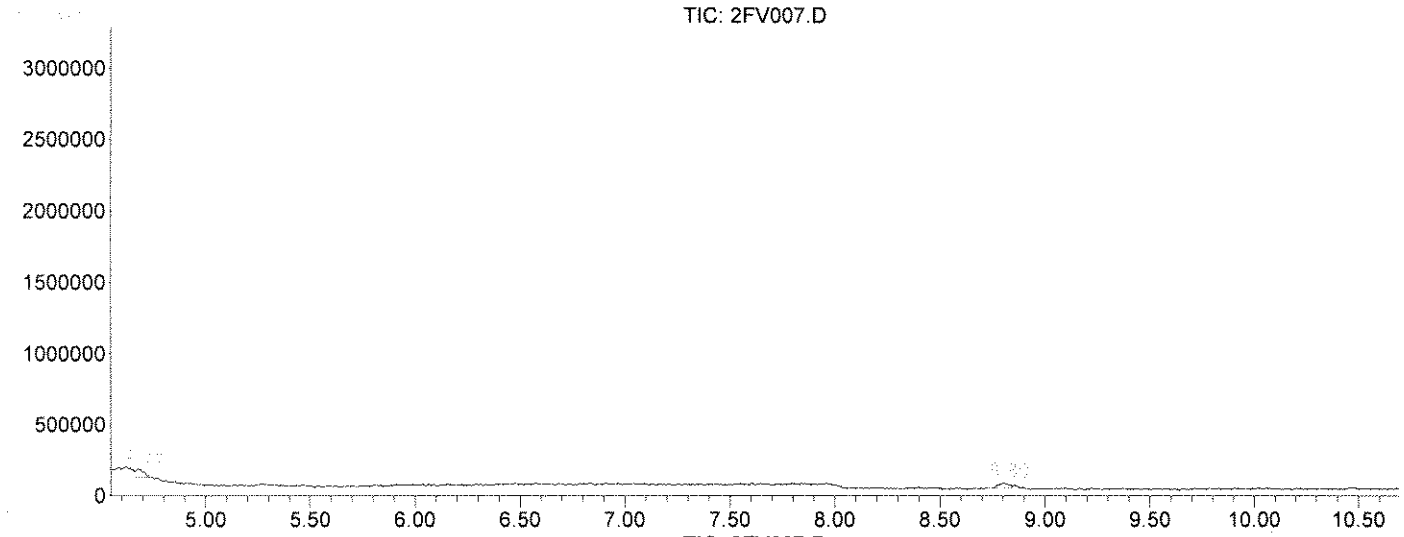
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.677	17	19	28	rVB4	64974	153726	2.28%	0.428%
2	8.800	593	602	608	rBV6	37435	143547	2.13%	0.400%
3	10.908	893	900	909	rBV	1223602	2546666	37.83%	7.093%
4	11.311	950	957	973	rBV	1795890	3788335	56.28%	10.551%
5	11.473	973	980	988	rVB	1305573	2482212	36.88%	6.913%
6	11.884	1031	1038	1049	rVB	2400181	4693841	69.73%	13.073%
7	13.164	1211	1219	1234	rBV	3239190	6731334	100.00%	18.748%
8	14.550	1408	1415	1425	rBV	2423825	5173189	76.85%	14.408%
9	14.642	1426	1428	1438	rVB10	40739	80760	1.20%	0.225%
10	15.229	1505	1511	1516	rBV	32622	70960	1.05%	0.198%
11	15.674	1566	1574	1587	rBV	2186708	4843782	71.96%	13.491%
12	16.883	1737	1745	1755	rVB	2201125	5196695	77.20%	14.473%

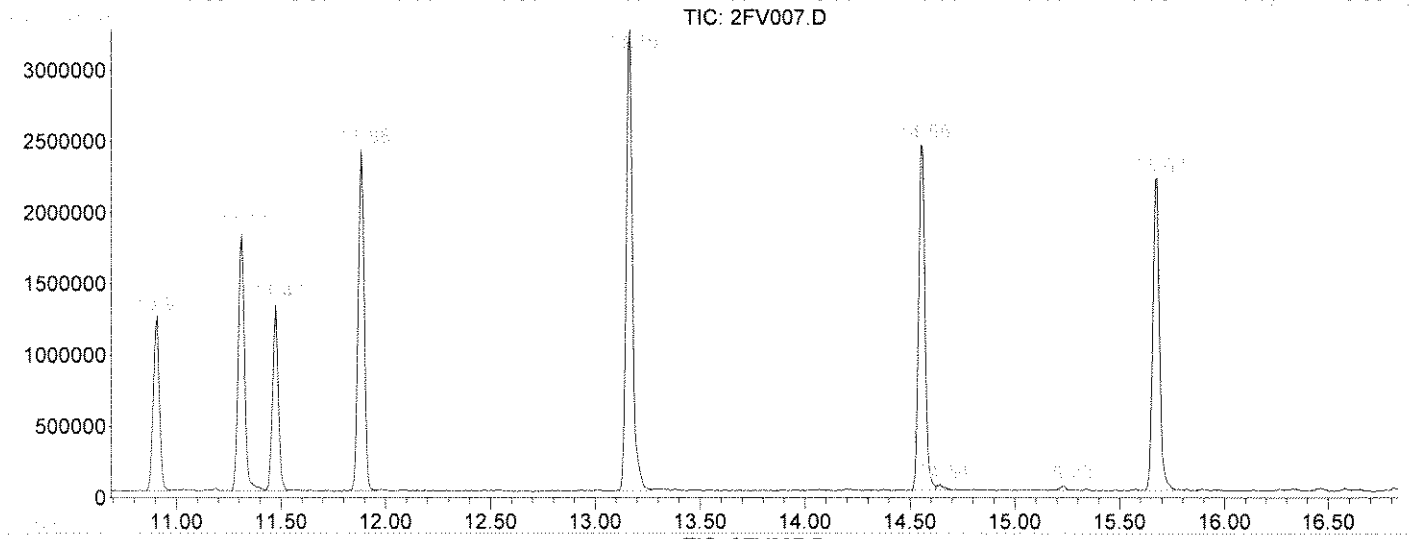
Sum of corrected areas: 35905047

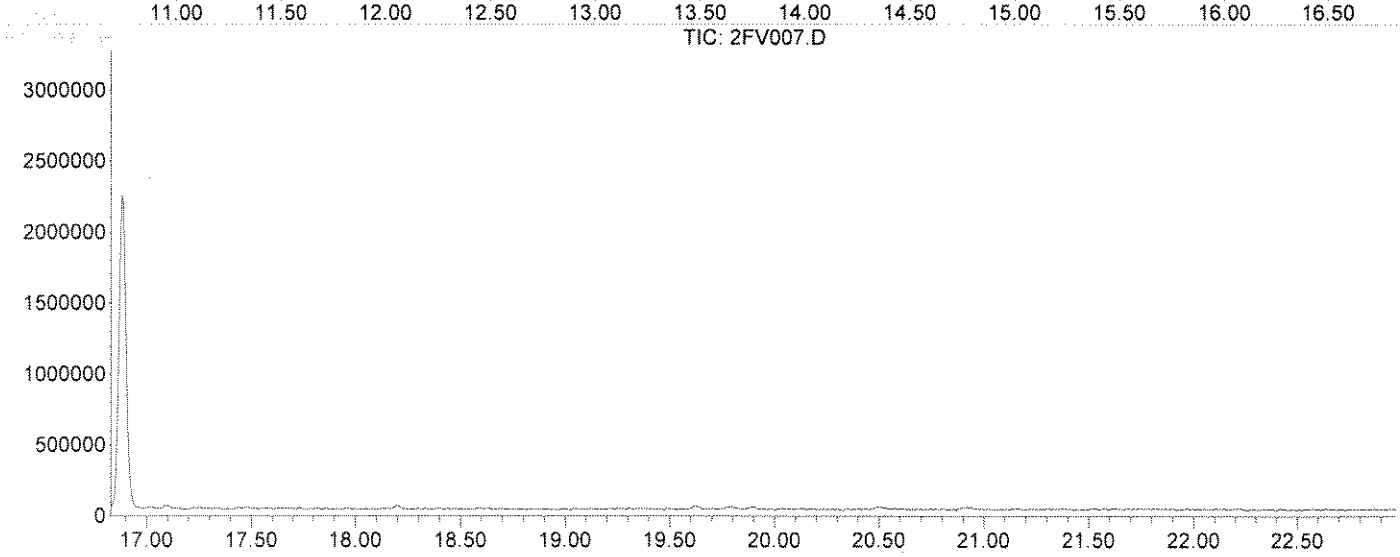
2FV007.D S1306004.M Fri Jun 28 09:53:20 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV007.D
Operator : kat
Acquired : 27 Jun 2013 16:47 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-06
Misc Info :
Vial Number: 7
Quant File :S1306004.RES (RTE Integrator)







2FV007.D S1306004.M Fri Jun 28 09:53:21 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV008.D Vial: 8
Acq On : 27 Jun 2013 17:23 Operator: kat
Sample : a303499-07 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1389766	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1962629	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1644635	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	838577	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	766654	52.32	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery	= 104.64%		
44) 1,2-Dichloroethane-d4	11.48	65	834585	51.20	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery	= 102.40%		
56) D8-Toluene	13.16	98	2406760	52.44	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery	= 104.88%		
77) Bromofluorobenzene	15.67	95	997365	54.40	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery	= 108.80%		

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D.	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D. d	
6) Chloroethane	0.00	64	N.D. d	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D. d	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D. d	
15) Carbon disulfide	0.00	76	N.D.	
16) Methylene Chloride	0.00	84	N.D. d	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D. d	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D. d	
26) Propionitrile	0.00	54	N.D.	
27) 2,2-Dichloropropane	0.00	77	N.D. d	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	10.91	113	766654	52.32 ug/kg 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D. d	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV008.D Vial: 8
Acq On : 27 Jun 2013 17:23 Operator: kat
Sample : a303499-07 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D.	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D.	
45) 1,2-Dichloroethane-d4	11.48	65	834585	51.20 ug/kg#	96
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2406760	52.44 ug/kg	99
59) Toluene	13.22	92	5644	0.18 ug/kg#	67
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	997365	54.40 ug/kg#	81
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D. d	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D. d	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) 1,2-Dichlorobenzene	0.00	146		N.D. d	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV008.D
Acq On : 27 Jun 2013 17:23
Sample : a303499-07
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013

Vial: 8
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
97) Hexachlorobutadiene	0.00	225		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

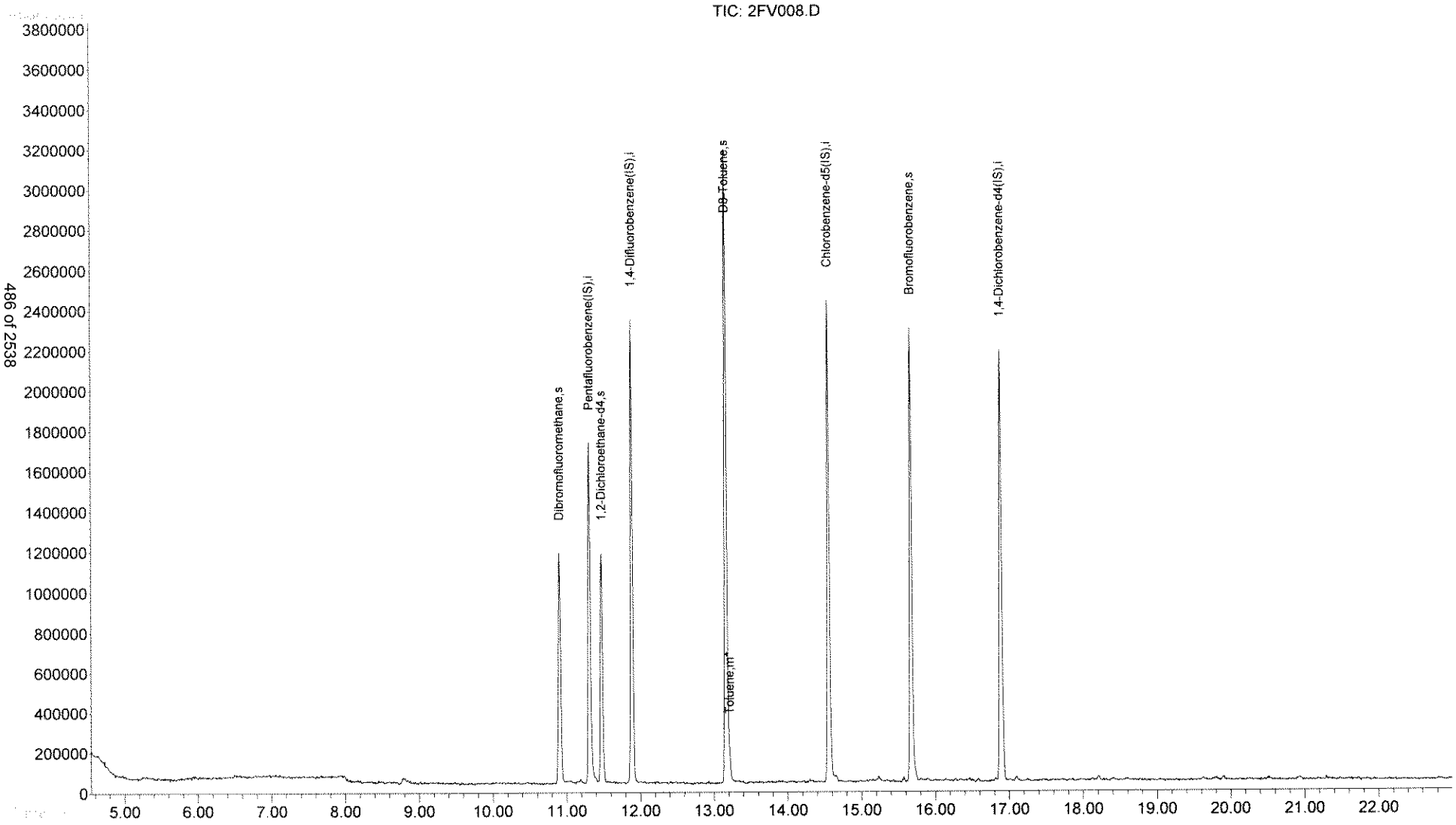
Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV008.D
Acq On : 27 Jun 2013 17:23
Sample : a303499-07
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:53 2013

Vial: 8
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 17:23
Data File: C:\HPCHEM\1\DATA\062713\2FV008.D
Name: a303499-07
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV008.D S1306004.M Fri Jun 28 09:54:00 2013

KMC 08/13

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV008.D Vial: 8
Acq On : 27 Jun 2013 17:23 Operator: kat
Sample : a303499-07 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

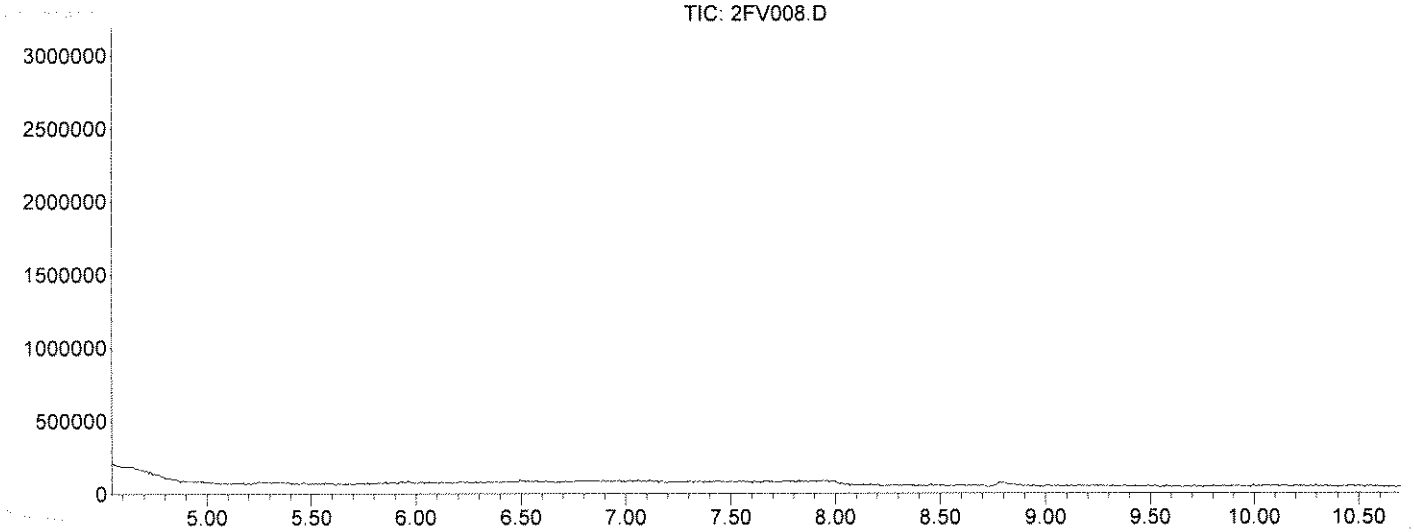
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.905	892	900	912	rBV	1149173	2492527	37.43%	7.178%
2	11.315	949	958	974	rBV	1698507	3672945	55.15%	10.578%
3	11.478	974	981	989	rVB	1141808	2374347	35.65%	6.838%
4	11.888	1027	1039	1046	rBV	2309691	4558693	68.45%	13.129%
5	13.161	1212	1219	1235	rBV	3151824	6659710	100.00%	19.180%
6	14.554	1409	1416	1428	rBV	2395440	5008198	75.20%	14.423%
7	15.672	1567	1574	1589	rBV	2257763	4921056	73.89%	14.172%
8	16.888	1739	1746	1757	rVB	2140704	5035365	75.61%	14.502%

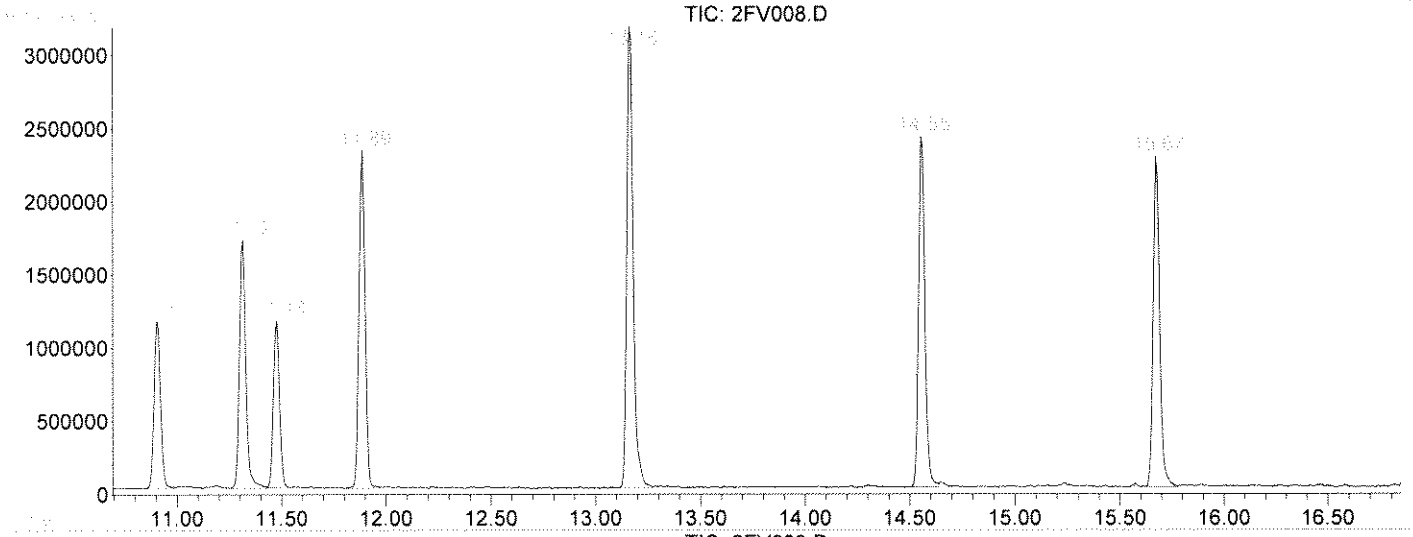
Sum of corrected areas: 34722841

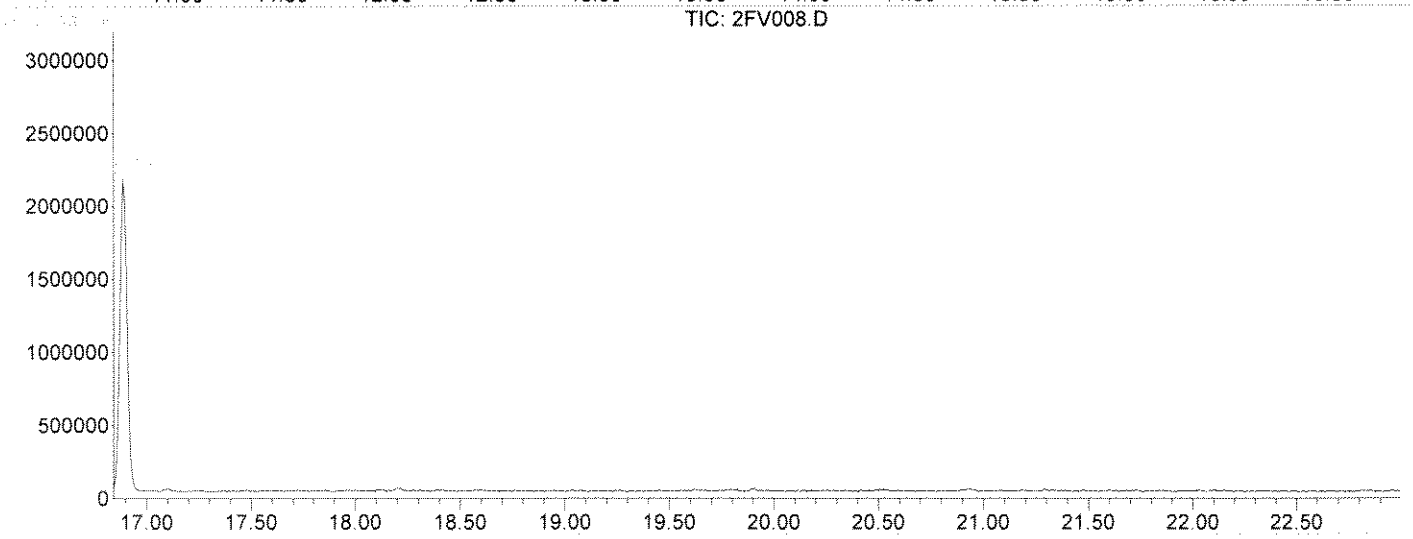
2FV008.D S1306004.M Fri Jun 28 09:53:58 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV008.D
Operator : kat
Acquired : 27 Jun 2013 17:23 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-07
Misc Info :
Vial Number: 8
Quant File :S1306004.RES (RTE Integrator)







2FV008.D S1306004.M Fri Jun 28 09:54:00 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV009.D
Acq On : 27 Jun 2013 17:58
Sample : a303499-09
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:54 2013

Vial: 9
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1435826	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	2034106	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1718011	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.88	152	879082	50.00 ug/kg	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	789145	52.12 ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 104.24%		
44) 1,2-Dichloroethane-d4	11.47	65	897872	53.15 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 106.30%		
56) D8-Toluene	13.16	98	2446797	51.44 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 102.88%		
77) Bromofluorobenzene	15.67	95	989742	51.68 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 103.36%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D.	
7) Trichlorofluoromethane	0.00	101		N.D. d	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	8.86	43	312753	42.11 ug/kg	95
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D. d	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	11.03	72	20562	9.42 ug/kg	96
26) Propionitrile	0.00	54		N.D.	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.90	113	789145	52.12 ug/kg	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV009.D Vial: 9
Acq On : 27 Jun 2013 17:58 Operator: kat
Sample : a303499-09 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D.	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.47	65	897872	53.15 ug/kg	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2446797	51.44 ug/kg	99
59) Toluene	13.21	92	35798	1.11 ug/kg	89
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	989742	51.68 ug/kg#	82
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV009.D Vial: 9
Acq On : 27 Jun 2013 17:58 Operator: kat
Sample : a303499-09 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
97) Hexachlorobutadiene	0.00	225		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

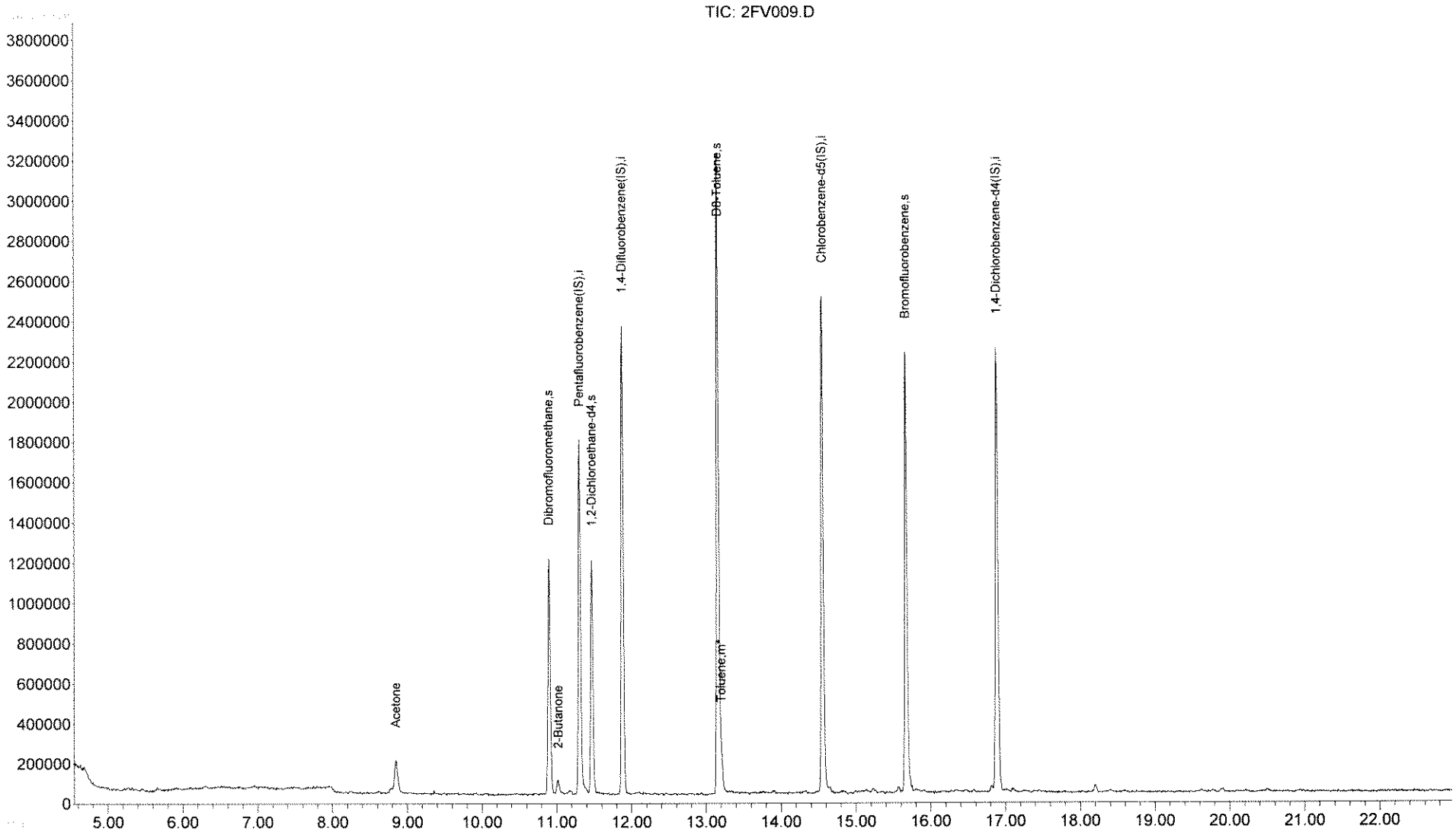
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV009.D
Acq On : 27 Jun 2013 17:58
Sample : a303499-09
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:54 2013

Vial: 9
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 17:58
Data File: C:\HPCHEM\1\DATA\062713\2FV009.D
Name: a303499-09
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV009.D S1306004.M Fri Jun 28 09:54:47 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV009.D Vial: 9
Acq On : 27 Jun 2013 17:58 Operator: kat
Sample : a303499-09 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

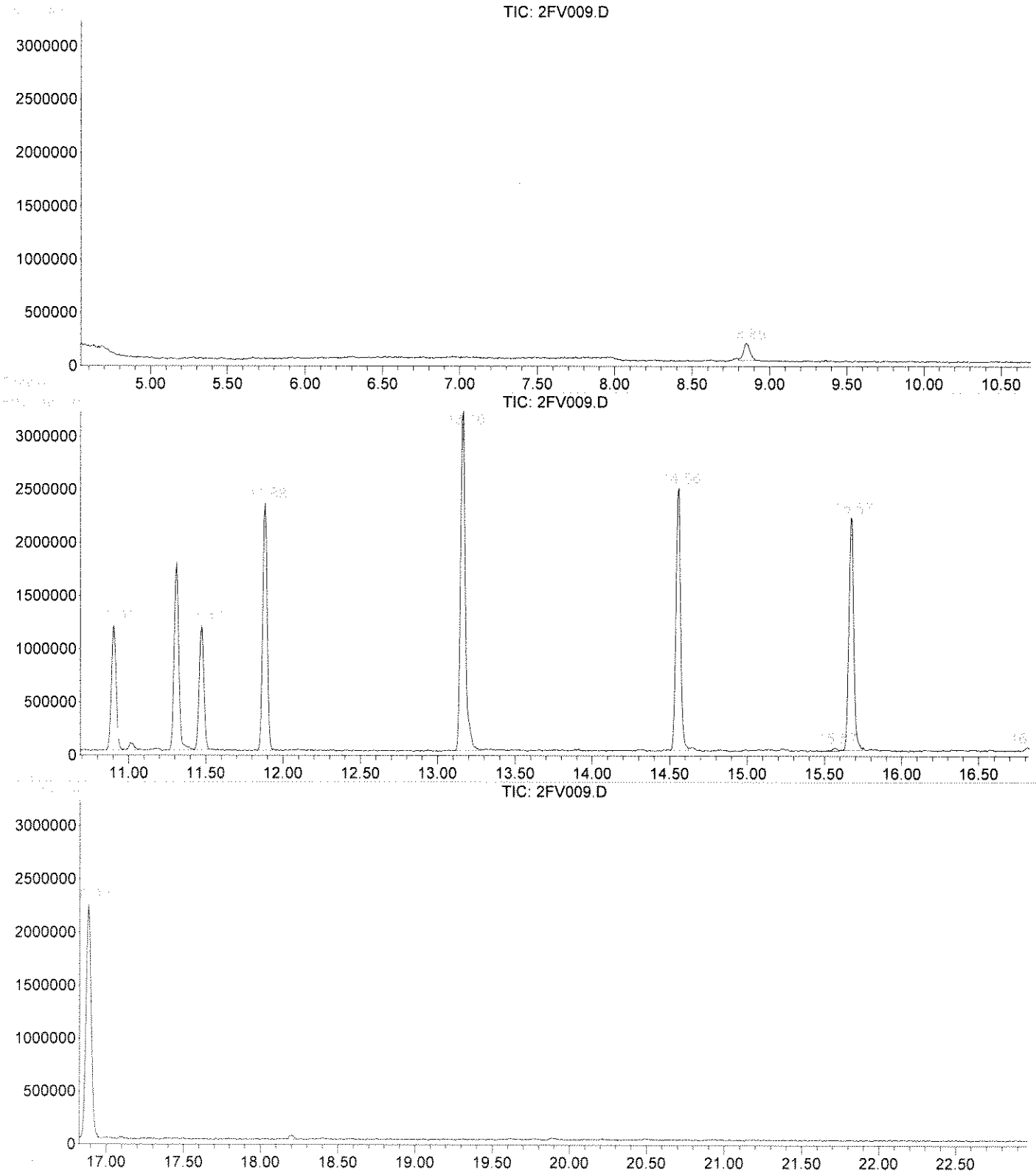
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.850	602	609	618	rVB	160713	465662	6.78%	1.285%
2	10.900	892	899	908	rBV2	1176423	2541678	37.01%	7.014%
3	11.014	910	915	922	rBV2	68859	157752	2.30%	0.435%
4	11.311	950	957	973	rBV	1766180	3785364	55.12%	10.445%
5	11.473	973	980	988	rVB	1165215	2441380	35.55%	6.737%
6	11.883	1031	1038	1045	rBV	2329284	4647009	67.67%	12.823%
7	13.163	1212	1219	1236	rBV	3193811	6867144	100.00%	18.949%
8	14.557	1409	1416	1425	rBV	2467662	5150610	75.00%	14.213%
9	15.568	1550	1559	1563	rBV10	32011	75370	1.10%	0.208%
10	15.667	1566	1573	1584	rBV	2188648	4806704	70.00%	13.264%
11	16.812	1728	1735	1738	rBV8	33741	75948	1.11%	0.210%
12	16.883	1738	1745	1758	rVB	2207757	5137785	74.82%	14.177%
13	18.206	1927	1932	1936	rVB5	39142	87131	1.27%	0.240%

Sum of corrected areas: 36239537

2FV009.D S1306004.M Fri Jun 28 09:54:46 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV009.D
Operator : kat
Acquired : 27 Jun 2013 17:58 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-09
Misc Info :
Vial Number: 9
Quant File :S1306004.RES (RTE Integrator)



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV010.D
Acq On : 27 Jun 2013 18:33
Sample : a303499-10
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:55 2013

Vial: 10
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

CCV 062813

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1353886	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1919972	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1635121	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	855762	50.00 ug/kg	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	697659	48.87 ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 97.74%		
44) 1,2-Dichloroethane-d4	11.47	65	805386	50.51 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 101.02%		
56) D8-Toluene	13.16	98	2276529	50.71 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 101.42%		
77) Bromofluorobenzene	15.67	95	922130	50.59 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 101.18%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D. d	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	6.97	101	42515	2.46 ug/kg	95
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D.	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D.	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D.	
26) Propionitrile	0.00	54		N.D. d	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.91	113	697659	48.87 ug/kg	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV010.D Vial: 10
Acq On : 27 Jun 2013 18:33 Operator: kat
Sample : a303499-10 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:55 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.47	65	805386	50.51 ug/kg	93
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2276529	50.71 ug/kg	99
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	922130	50.59 ug/kg#	80
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV010.D Vial: 10
Acq On : 27 Jun 2013 18:33 Operator: kat
Sample : a303499-10 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:55 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

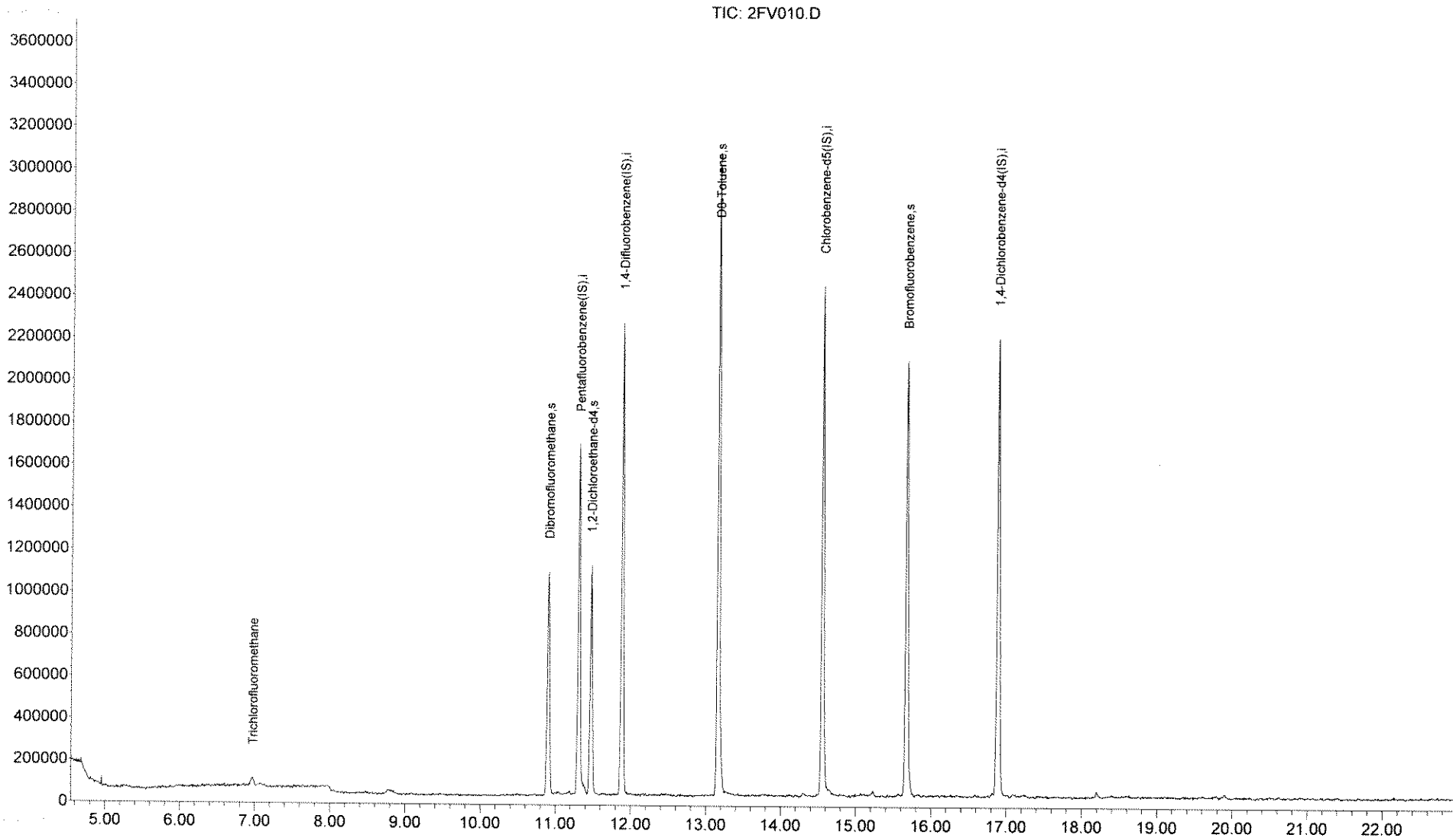
Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV010.D
Acq On : 27 Jun 2013 18:33
Sample : a303499-10
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:55 2013

Vial: 10
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 18:33
Data File: C:\HPCHEM\1\DATA\062713\2FV010.D
Name: a303499-10
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV010.D S1306004.M Fri Jun 28 09:55:36 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV010.D Vial: 10
Acq On : 27 Jun 2013 18:33 Operator: kat
Sample : a303499-10 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

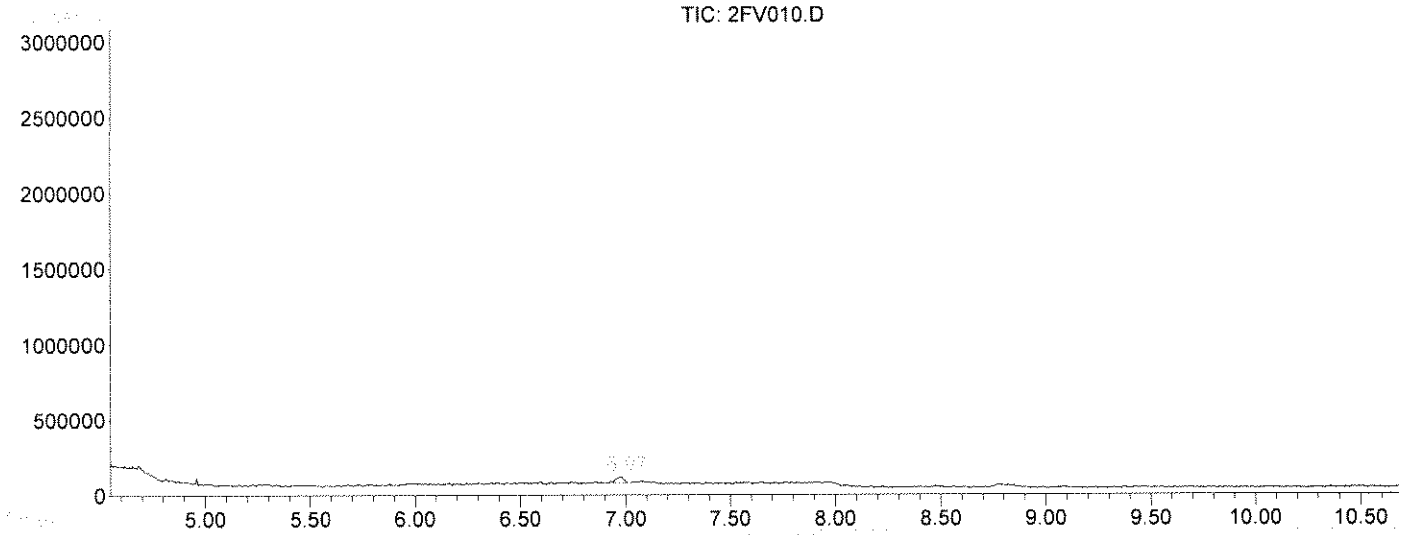
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.975	339	344	351	rVB2	39739	98361	1.56%	0.295%
2	10.907	891	900	908	rBV2	1062324	2292432	36.32%	6.864%
3	11.310	949	957	966	rBV	1658679	3486226	55.23%	10.438%
4	11.472	973	980	991	rBV	1086397	2228434	35.30%	6.672%
5	11.883	1032	1038	1047	rBV	2233287	4372418	69.27%	13.092%
6	13.163	1211	1219	1231	rBV	3045593	6312170	100.00%	18.899%
7	14.556	1409	1416	1427	rBV	2403941	4938235	78.23%	14.786%
8	15.673	1567	1574	1590	rVB	2063053	4595662	72.81%	13.760%
9	16.882	1738	1745	1757	rVB	2163400	5074895	80.40%	15.195%

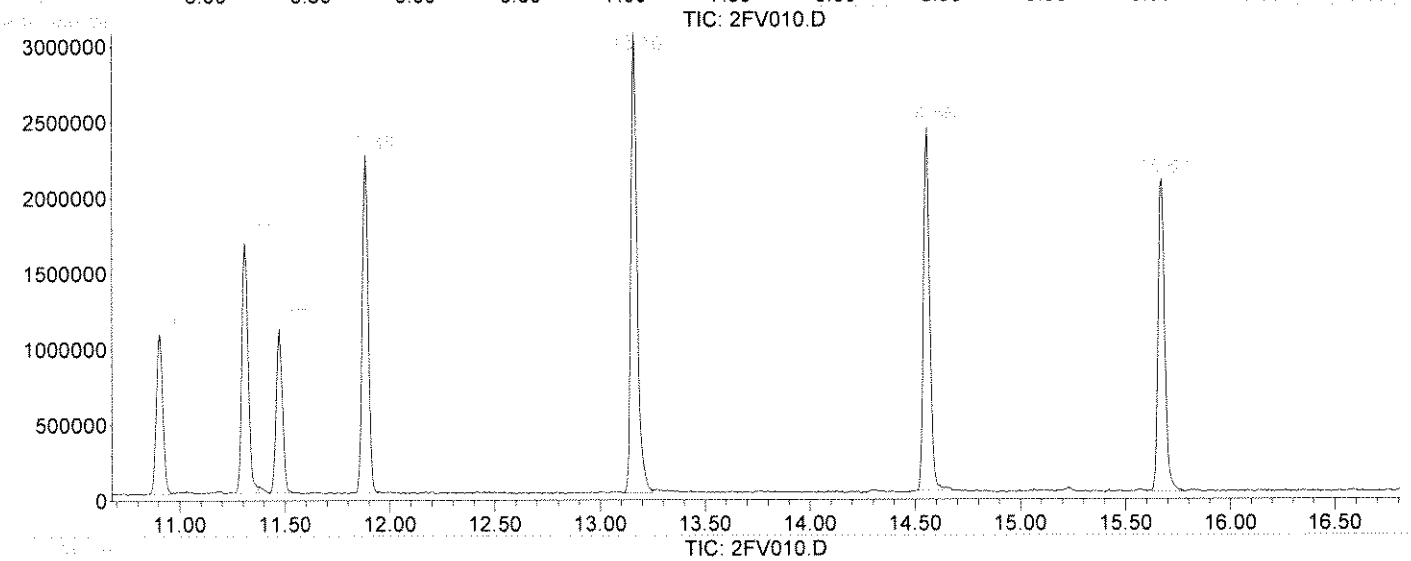
Sum of corrected areas: 33398833

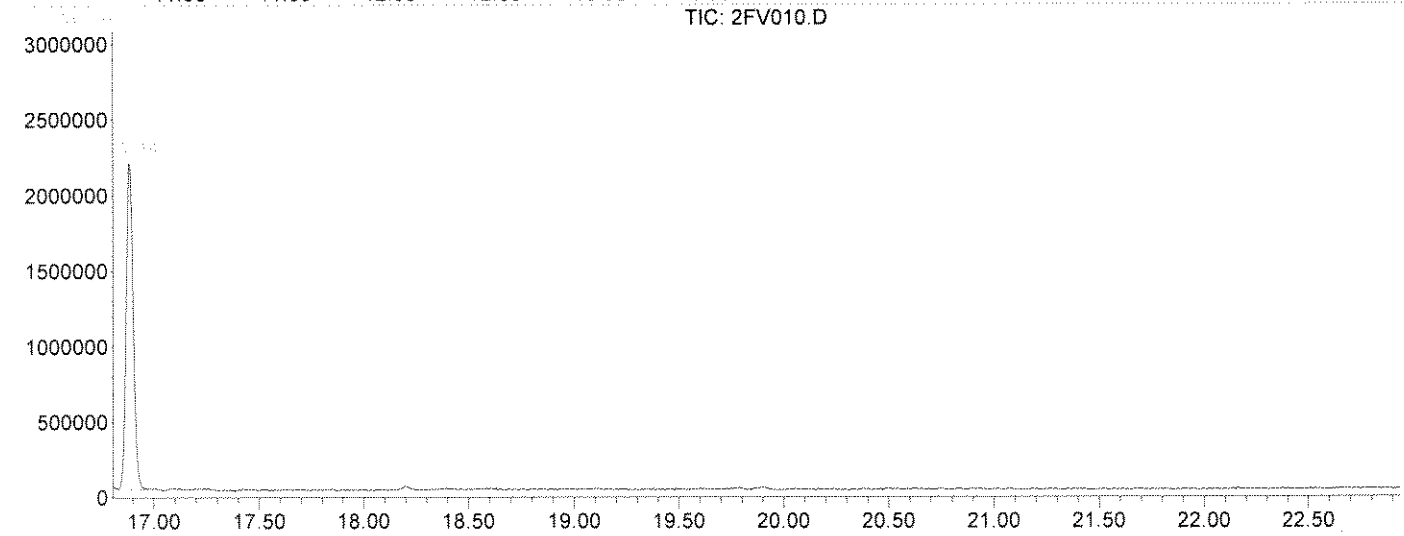
2FV010.D S1306004.M Fri Jun 28 09:55:35 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV010.D
Operator : kat
Acquired : 27 Jun 2013 18:33 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-10
Misc Info :
Vial Number: 10
Quant File :S1306004.RES (RTE Integrator)







2FV010.D S1306004.M Fri Jun 28 09:55:36 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV011.D Vial: 11
Acq On : 27 Jun 2013 19:08 Operator: kat
Sample : a303499-11 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:56 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1396010	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1969980	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1661111	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.88	152	862123	50.00	ug/kg	-0.01
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	757160	51.44	ug/kg	-0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 102.88%			
44) 1,2-Dichloroethane-d4	11.47	65	849793	51.94	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 103.88%			
56) D8-Toluene	13.16	98	2363515	51.31	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 102.62%			
77) Bromofluorobenzene	15.67	95	946874	51.13	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 102.26%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D.	d	
6) Chloroethane	0.00	64		N.D.	d	
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D.		
10) Acetone	8.86	43	55190	7.64	ug/kg	99
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D.	d	
14) Iodomethane	0.00	142		N.D.	d	
15) Carbon disulfide	0.00	76		N.D.		
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.	d	
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	0.00	72		N.D.	d	
26) Propionitrile	0.00	54		N.D.	d	
27) 2,2-Dichloropropane	0.00	77		N.D.	d	
28) Methacrylonitrile	0.00	67		N.D.	d	
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	10.90	113	757160	51.44	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D.	d	
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV011.D Vial: 11
Acq On : 27 Jun 2013 19:08 Operator: kat
Sample : a303499-11 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:56 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D.	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.47	65	849793	51.94 ug/kg	94
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D.	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D.	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.16	98	2363515	51.31 ug/kg	99
59)	Toluene	13.21	92	7630	0.25 ug/kg#	77
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	14.65	106	4444	0.21 ug/kg	77
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.67	95	946874	51.13 ug/kg#	81
79)	T-1,4-dichloro-2-butene	0.00	53		N.D.	
80)	N-Propylbenzene	0.00	91		N.D.	
82)	Bromobenzene	0.00	156		N.D.	
83)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
84)	2-Chlorotoluene	0.00	91		N.D.	
85)	4-Chlorotoluene	0.00	91		N.D.	
86)	1,2,4-Trimethylbenzene	0.00	105		N.D.	
87)	s-Butylbenzene	0.00	105		N.D.	
88)	tert-Butylbenzene	0.00	119		N.D.	
89)	p-Isopropyltoluene	0.00	119		N.D.	
90)	1,3-Dichlorobenzene	0.00	146		N.D.	
91)	1,4-Dichlorobenzene	0.00	146		N.D.	
92)	1,2-Dichlorobenzene	0.00	146		N.D.	
93)	N-Butylbenzene	0.00	91		N.D.	
94)	DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV011.D Vial: 11
Acq On : 27 Jun 2013 19:08 Operator: kat
Sample : a303499-11 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:56 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

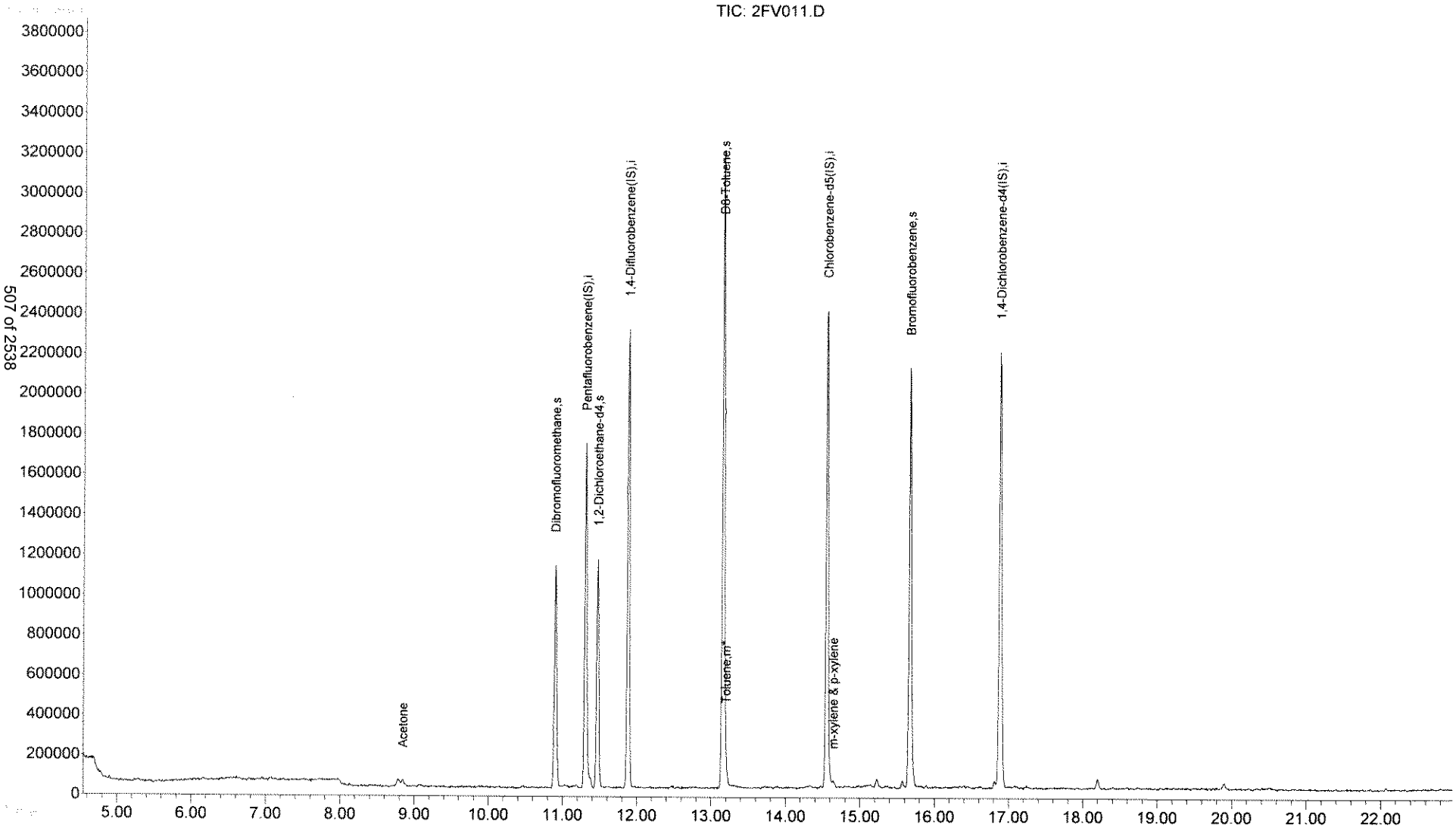
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV011.D
Acq On : 27 Jun 2013 19:08
Sample : a303499-11
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:56 2013

Vial: 11
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



2FV011.D S1306004.M Fri Jun 28 09:56:40 2013

Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 19:08
Data File: C:\HPCHEM\1\DATA\062713\2FV011.D
Name: a303499-11
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc Units	Area	IntStd	ISRT	ISArea ISConc

2FV011.D S1306004.M Fri Jun 28 09:56:52 2013

Kn062813

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV011.D Vial: 11
Acq On : 27 Jun 2013 19:08 Operator: kat
Sample : a303499-11 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

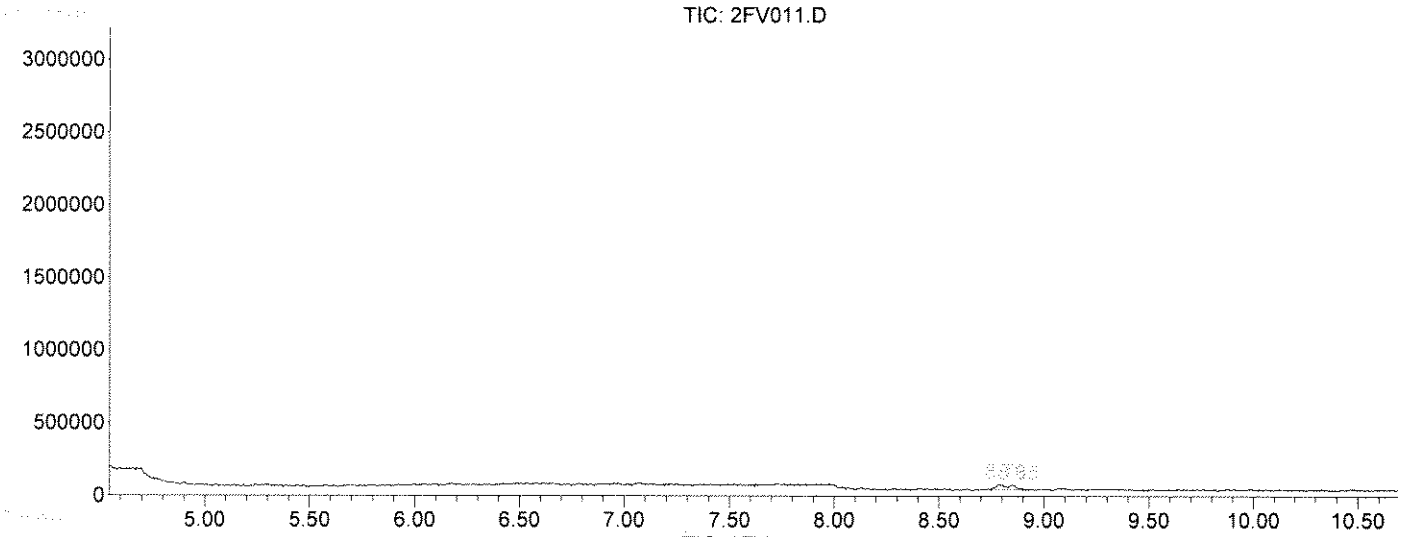
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.785	594	600	606	rBV8	40171	119991	1.82%	0.342%
2	8.849	606	609	618	rVB2	34077	89081	1.35%	0.254%
3	10.900	892	899	909	rBV	1116034	2464891	37.39%	7.034%
4	11.310	950	957	972	rBV	1719908	3655222	55.44%	10.430%
5	11.473	972	980	988	rBV	1144055	2379788	36.10%	6.791%
6	11.883	1030	1038	1047	rBV	2290351	4577680	69.43%	13.063%
7	13.163	1211	1219	1232	rBV	3181998	6593018	100.00%	18.813%
8	14.556	1409	1416	1427	rBV	2378354	5014015	76.05%	14.308%
9	15.228	1506	1511	1521	rVB3	45442	114997	1.74%	0.328%
10	15.567	1555	1559	1562	rBV6	35417	67171	1.02%	0.192%
11	15.666	1565	1573	1586	rBV	2093235	4635974	70.32%	13.229%
12	16.812	1729	1735	1737	rBV5	40205	70956	1.08%	0.202%
13	16.883	1738	1745	1757	rVB	2173492	5066859	76.85%	14.458%
14	18.198	1924	1931	1940	rVB5	51981	123435	1.87%	0.352%
15	19.902	2164	2172	2178	rBV9	29184	71305	1.08%	0.203%

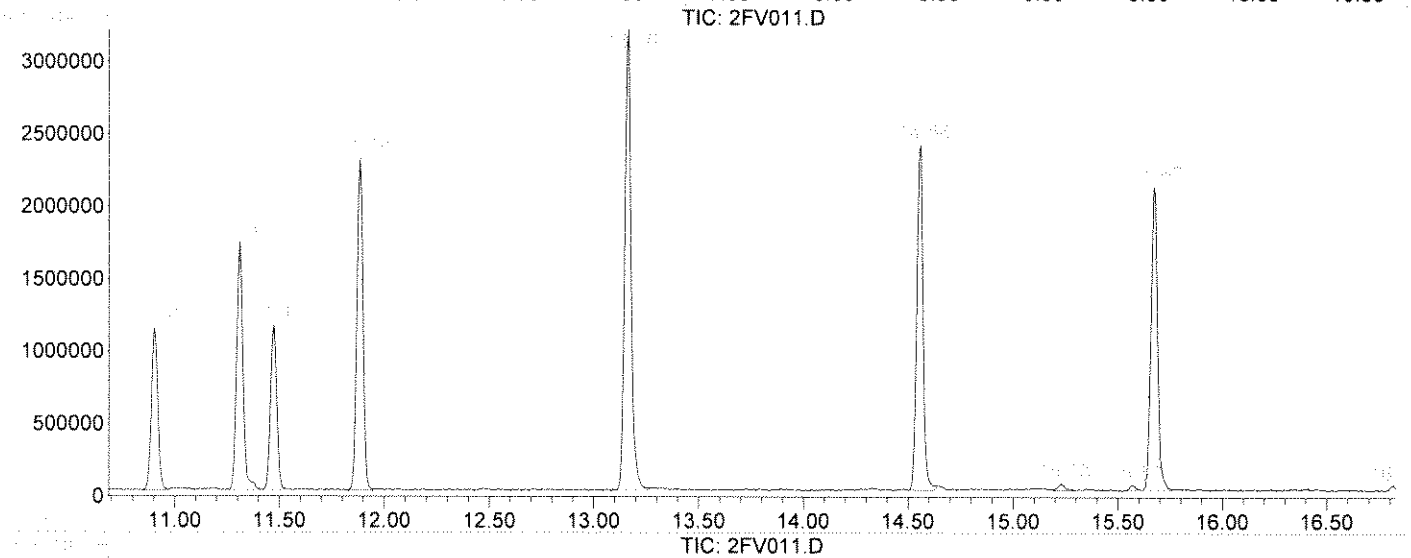
Sum of corrected areas: 35044383

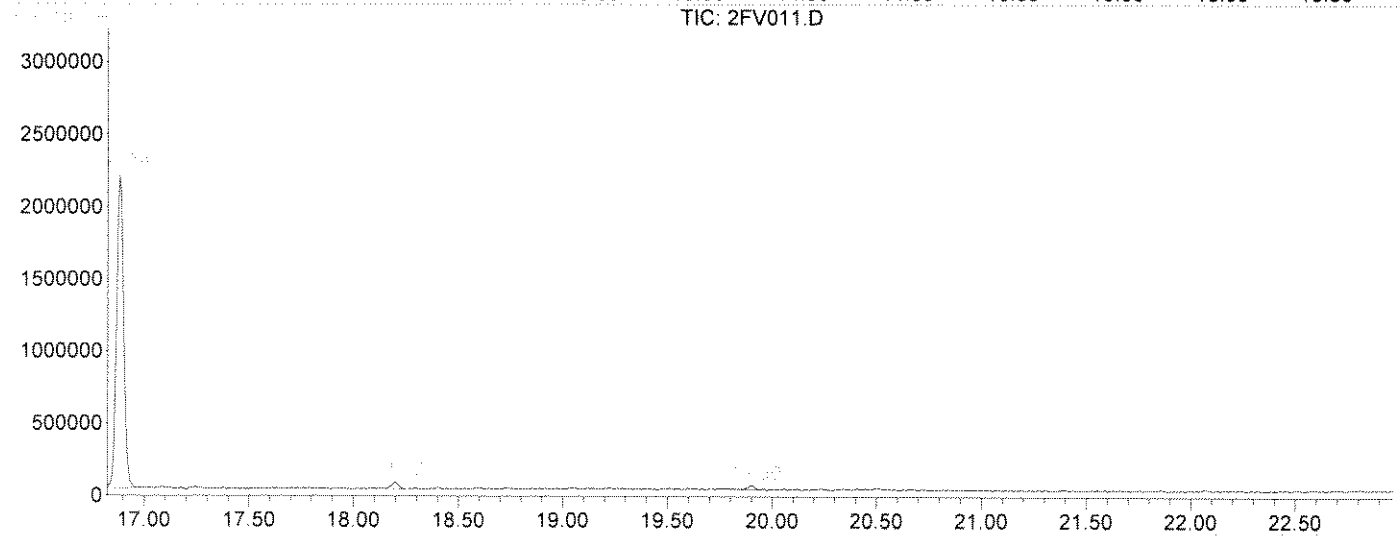
2FV011.D S1306004.M Fri Jun 28 09:56:50 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV011.D
Operator : kat
Acquired : 27 Jun 2013 19:08 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-11
Misc Info :
Vial Number: 11
Quant File :S1306004.RES (RTE Integrator)







Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV012.D Vial: 12
Acq On : 27 Jun 2013 19:42 Operator: kat
Sample : a303499-12 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:57 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

VR 062813

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1426510	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	2011238	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1706799	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	895529	50.00 ug/kg	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	739822	49.19 ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 98.38%		
44) 1,2-Dichloroethane-d4	11.47	65	831107	49.76 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 99.52%		
56) D8-Toluene	13.16	98	2368755	50.37 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 100.74%		
77) Bromofluorobenzene	15.67	95	962596	50.59 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 101.18%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	34162m	1.76 ug/kg	59
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	6.97	101	42571	2.34 ug/kg	91
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D.	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D. d	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D. d	
26) Propionitrile	0.00	54		N.D.	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.90	113	739822	49.19 ug/kg	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D.	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV012.D
Acq On : 27 Jun 2013 19:42
Sample : a303499-12
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:57 2013

Vial: 12
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D.	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D.	
45) 1,2-Dichloroethane-d4	11.47	65	831107	49.76 ug/kg	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2368755	50.37 ug/kg	100
59) Toluene	0.00	92		N.D. d	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	962596	50.59 ug/kg#	80
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV012.D Vial: 12
Acq On : 27 Jun 2013 19:42 Operator: kat
Sample : a303499-12 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:57 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

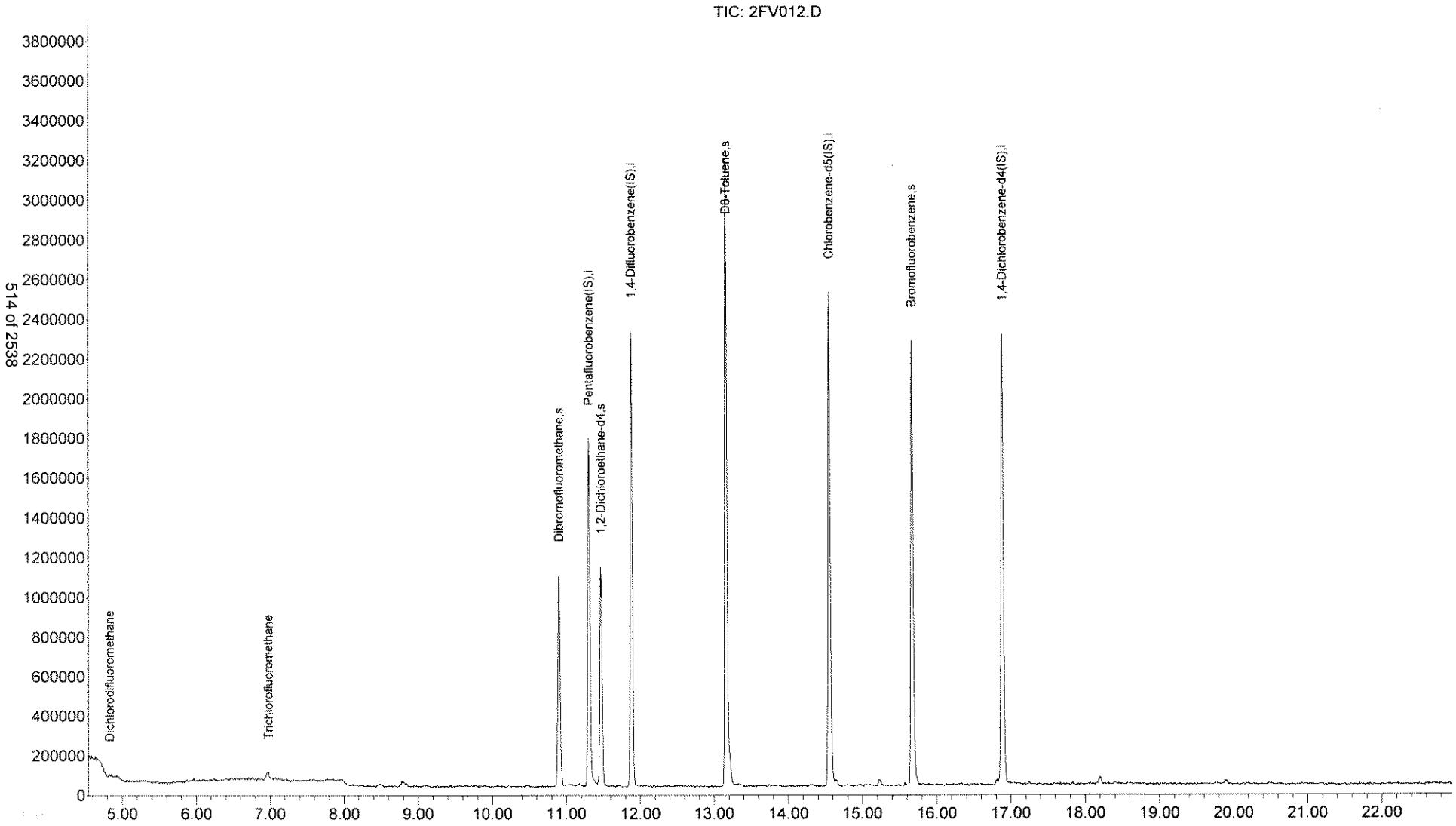
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV012.D
Acq On : 27 Jun 2013 19:42
Sample : a303499-12
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:57 2013

Vial: 12
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

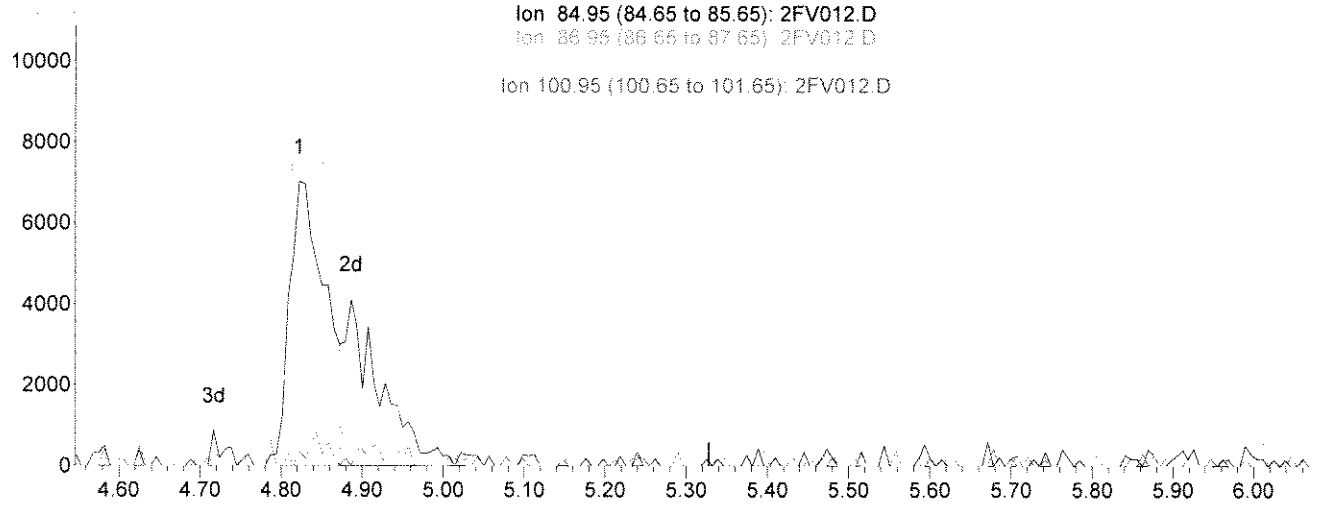
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration

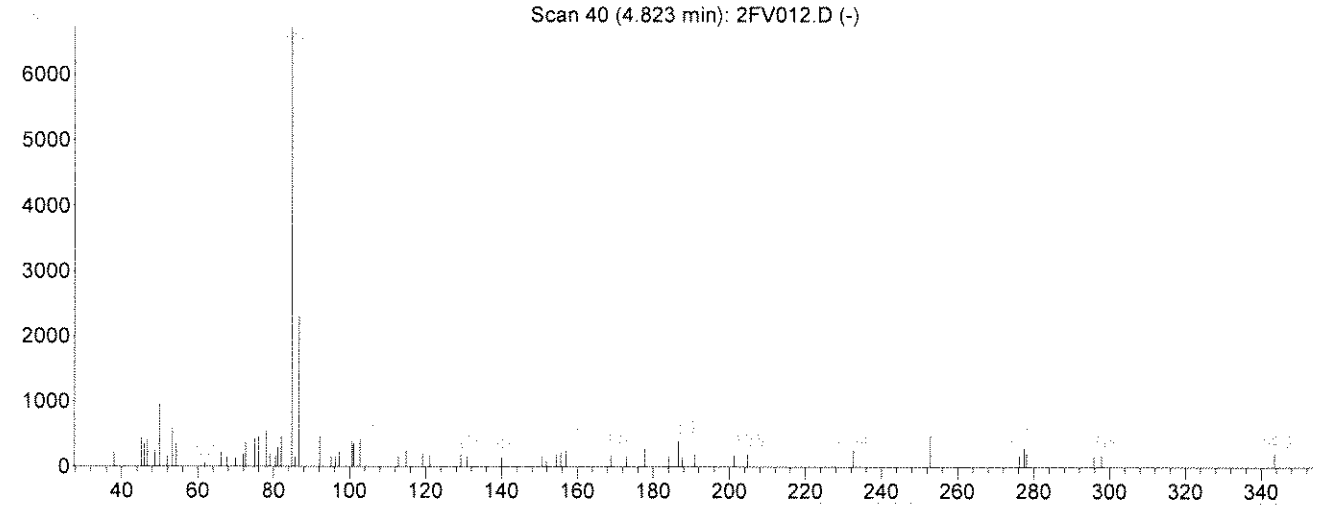


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV012.D Vial: 12
Acq On : 27 Jun 2013 19:42 Operator: kat
Sample : a303499-12 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:23 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2FV012.D

(2) Dichlorodifluoromethane

4.82min 1.12ug/kg

response 21703

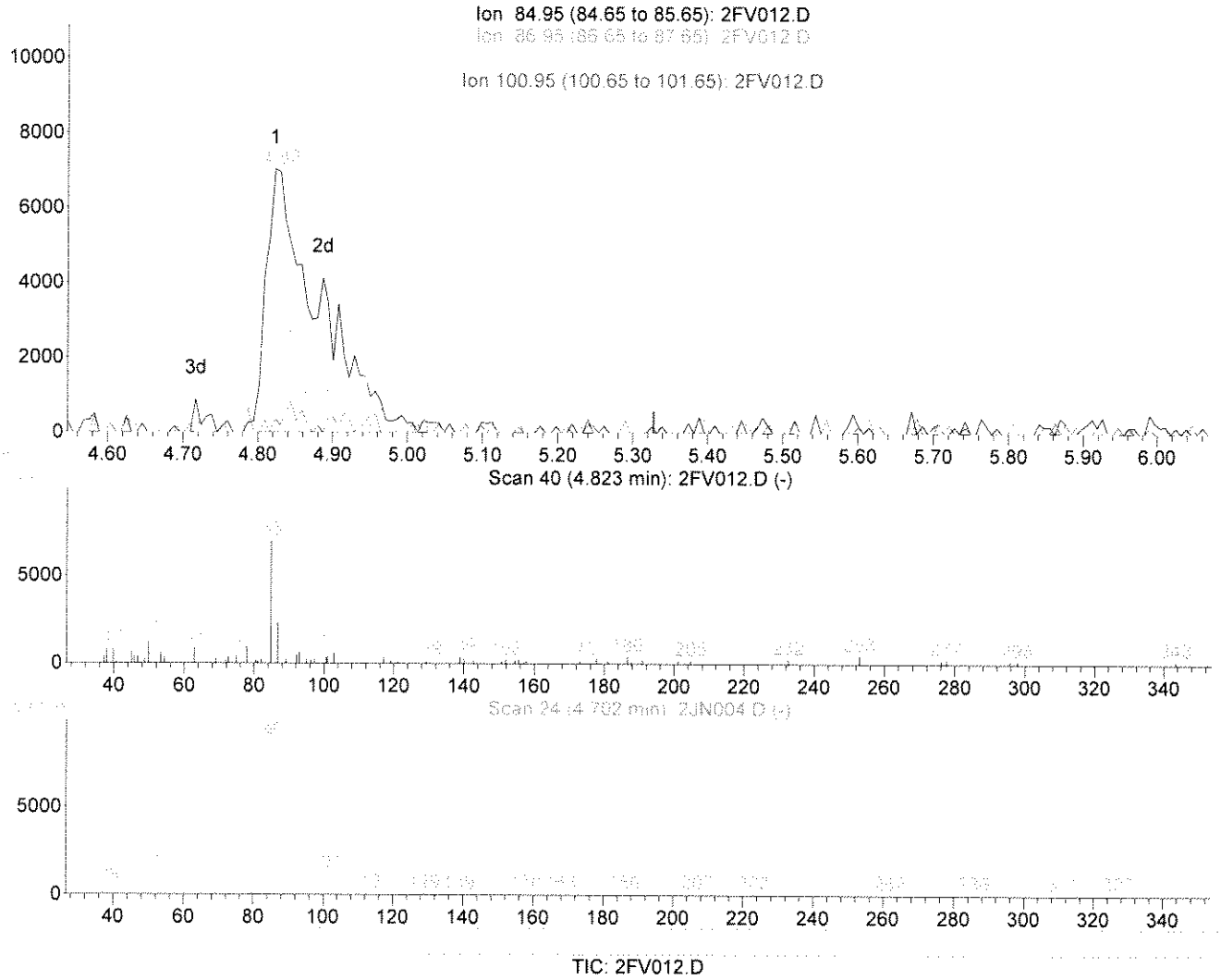
Ion	Exp%	Act%
84.95	100	100
86.95	32.20	0.00#
50.00	17.50	9.58
100.95	8.30	0.00

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KD 6/28/13
Review by/Date: LB 8-28-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062713\2FV012.D Vial: 12
Acq On : 27 Jun 2013 19:42 Operator: kat
Sample : a303499-12 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:57 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

4.82min 1.76ug/kg m

response 34162

Ion	Exp%	Act%
84.95	100	100
86.95	32.20	0.00#
50.00	17.50	6.09
100.95	8.30	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 6/04/2013
Review by/Date: KB 6-28-13

Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 19:42
Data File: C:\HPCHEM\1\DATA\062713\2FV012.D
Name: a303499-12
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV012.D S1306004.M Fri Jun 28 09:58:05 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV012.D
Acq On : 27 Jun 2013 19:42
Sample : a303499-12
Misc :
MS Integration Params: LSCINT.P

Vial: 12
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

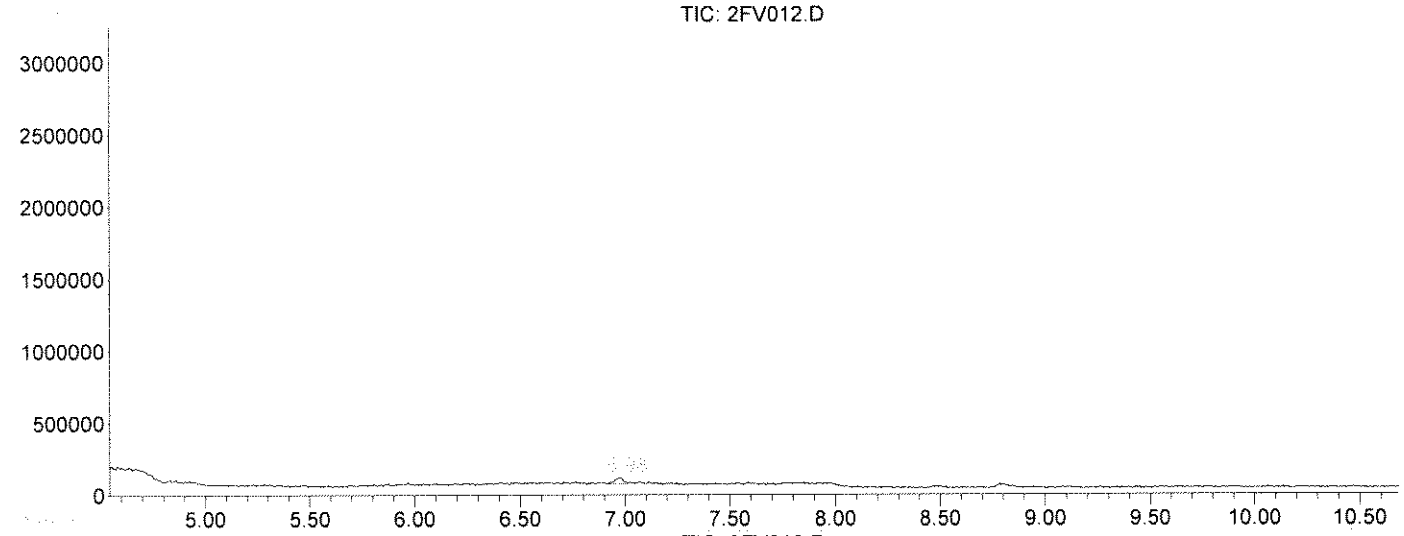
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.980	336	345	349	rBV6	45065	128196	1.95%	0.366%
2	10.905	891	900	908	rBV2	1073331	2376516	36.15%	6.779%
3	11.308	949	957	970	rBV	1760036	3742776	56.93%	10.677%
4	11.470	973	980	987	rVB	1099737	2250219	34.23%	6.419%
5	11.881	1030	1038	1046	rBV	2300320	4622381	70.31%	13.186%
6	13.161	1213	1219	1237	rBV	3201657	6573994	100.00%	18.753%
7	14.554	1410	1416	1426	rBV	2485109	5127214	77.99%	14.626%
8	15.233	1507	1512	1515	rBV5	31941	75074	1.14%	0.214%
9	15.671	1567	1574	1588	rBV	2243756	4792692	72.90%	13.672%
10	16.817	1729	1736	1738	rBV5	30449	66321	1.01%	0.189%
11	16.888	1738	1746	1755	rVB	2262485	5206504	79.20%	14.852%
12	18.203	1927	1932	1938	rVB6	40273	94011	1.43%	0.268%

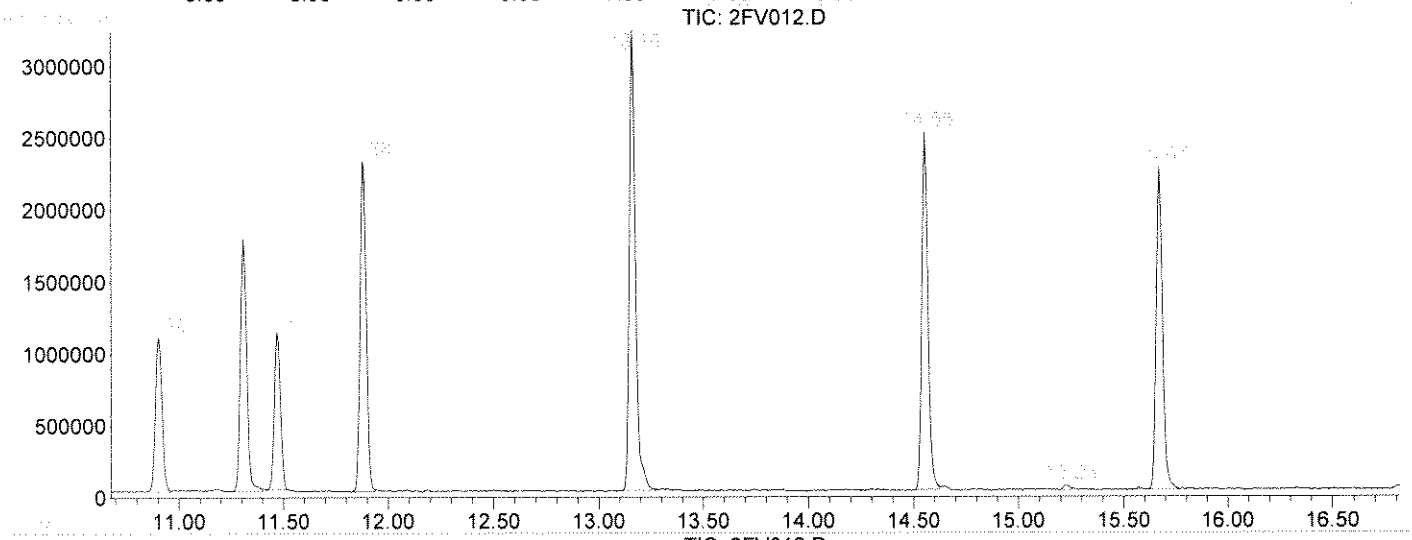
Sum of corrected areas: 35055898

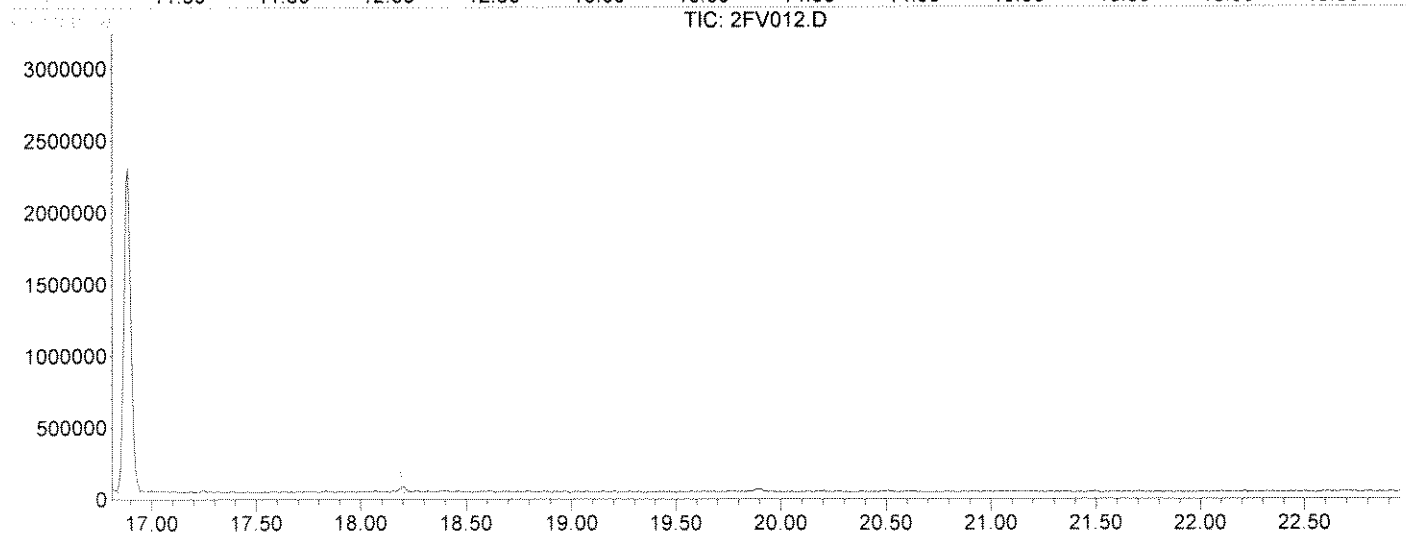
2FV012.D S1306004.M Fri Jun 28 09:58:04 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV012.D
Operator : kat
Acquired : 27 Jun 2013 19:42 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-12
Misc Info :
Vial Number: 12
Quant File :S1306004.RES (RTE Integrator)







2FV012.D S1306004.M Fri Jun 28 09:58:05 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV013.D Vial: 13
Acq On : 27 Jun 2013 20:17 Operator: kat
Sample : a303499-14 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:58 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1382958	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1959202	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1665294	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	857006	50.00	ug/kg	0.00

System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	764490	52.43	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 104.86%			
44) 1,2-Dichloroethane-d4	11.47	65	855528	52.58	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 105.16%			
56) D8-Toluene	13.16	98	2375712	51.86	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 103.72%			
77) Bromofluorobenzene	15.67	95	921070	49.61	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 99.22%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D.	d	
6) Chloroethane	0.00	64		N.D.		
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D.	d	
10) Acetone	0.00	43		N.D.	d	
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D.	d	
14) Iodomethane	0.00	142		N.D.		
15) Carbon disulfide	0.00	76		N.D.		
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.		
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	0.00	72		N.D.	d	
26) Propionitrile	0.00	54		N.D.		
27) 2,2-Dichloropropane	0.00	77		N.D.		
28) Methacrylonitrile	0.00	67		N.D.	d	
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	10.91	113	764490	52.43	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D.		
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV013.D Vial: 13
Acq On : 27 Jun 2013 20:17 Operator: kat
Sample : a303499-14 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:58 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D.	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.47	65	855528	52.58 ug/kg	93
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2375712	51.86 ug/kg	100
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	15.11	104	28066	0.80 ug/kg	81
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	921070	49.61 ug/kg#	80
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV013.D
Vial: 13
Acq On : 27 Jun 2013 20:17
Operator: kat
Sample : a303499-14
Inst : OVGCMS2
Misc :
Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:58 2013
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

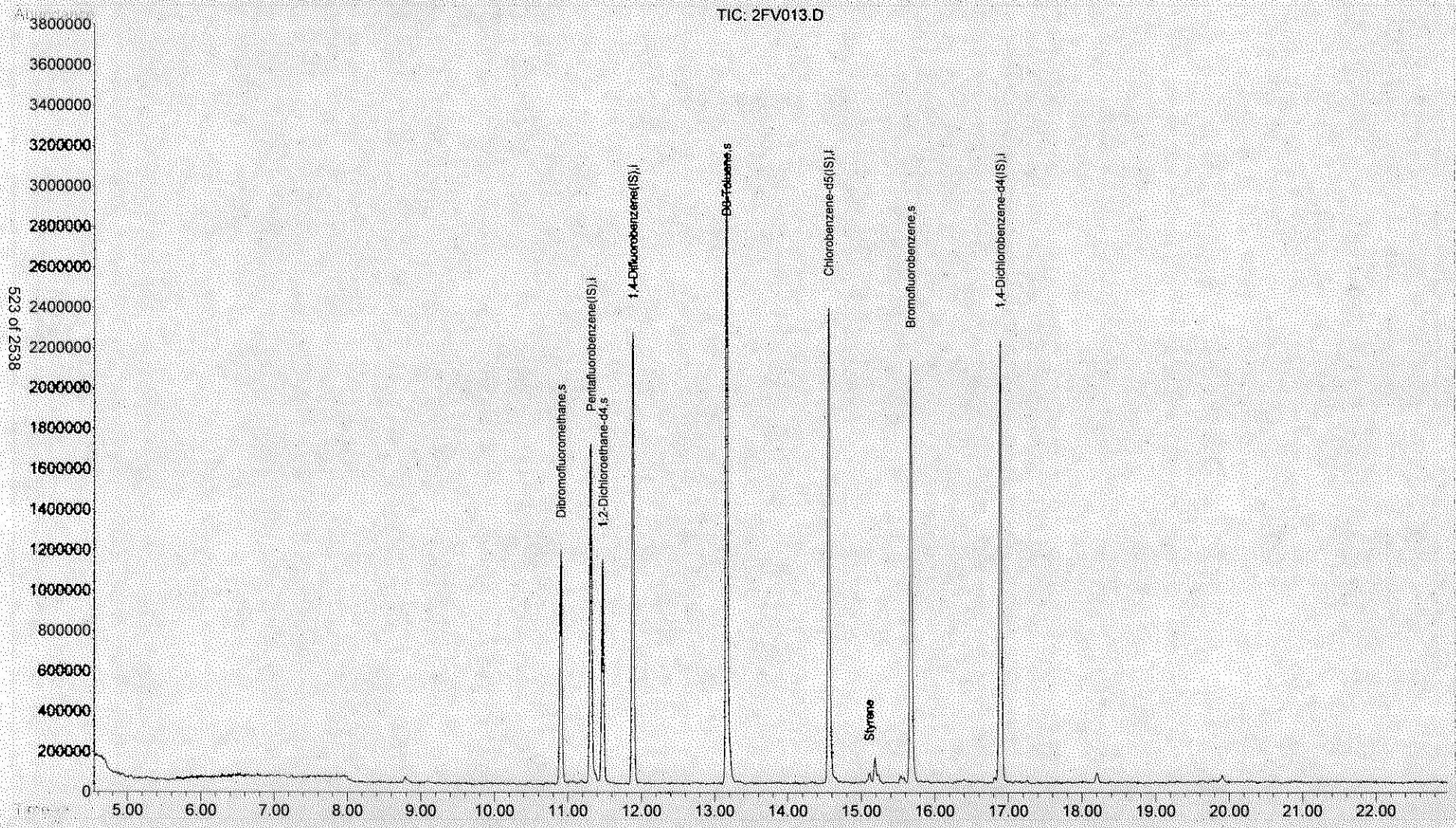
Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV013.D
Acq On : 27 Jun 2013 20:17
Sample : a303499-14
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:58 2013

Vial: 13
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 20:17
Data File: C:\HPCHEM\1\DATA\062713\2FV013.D
Name: a303499-14
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV013.D S1306004.M Fri Jun 28 09:58:57 2013

KJ 0813

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV013.D Vial: 13
Acq On : 27 Jun 2013 20:17 Operator: kat
Sample : a303499-14 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

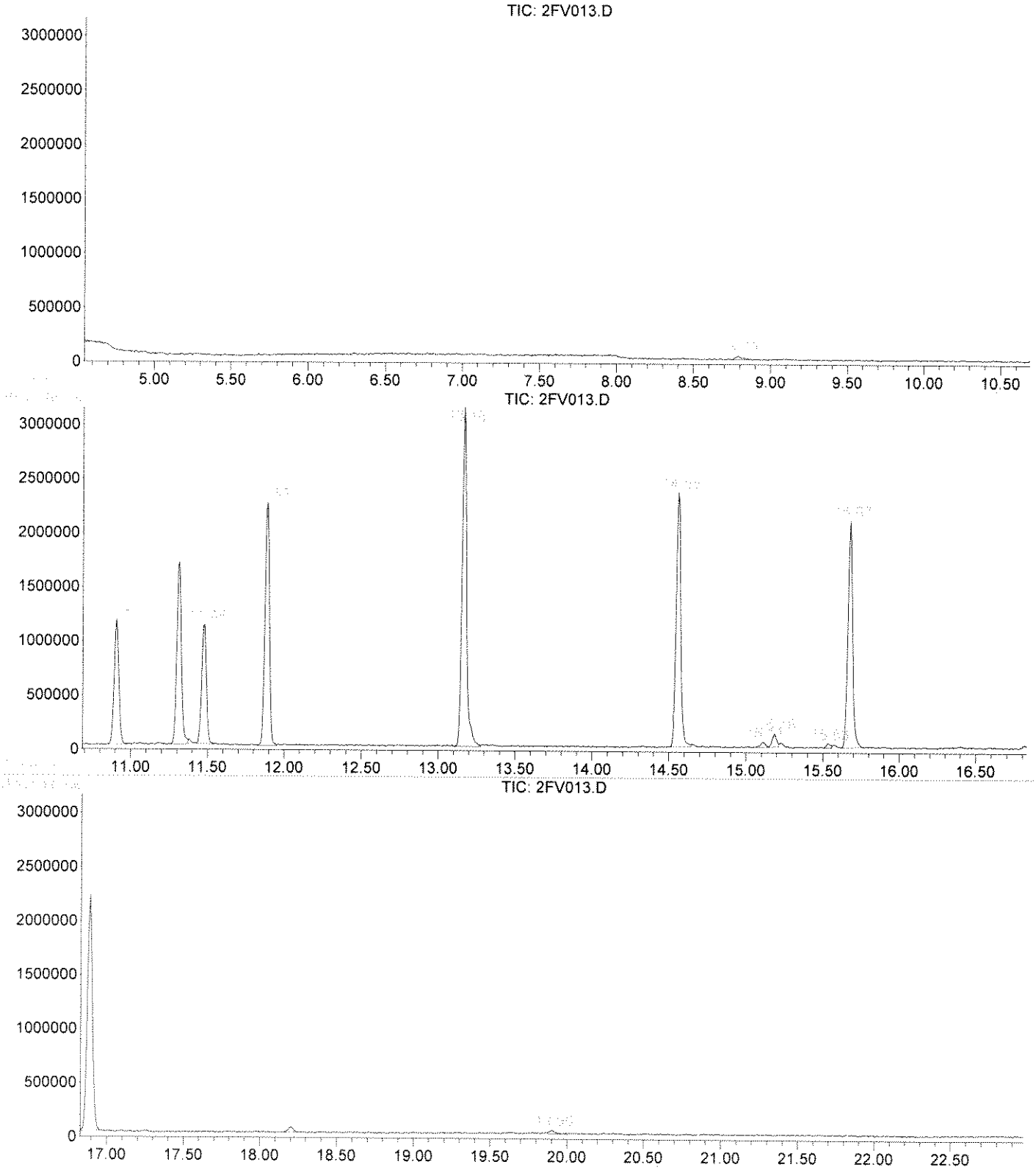
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.791	595	601	611	rBV	30999	97517	1.47%	0.281%
2	10.905	892	900	910	rBV	1159201	2475701	37.30%	7.121%
3	11.316	950	958	966	rBV	1678990	3561573	53.67%	10.245%
4	11.478	974	981	990	rVB	1104360	2337639	35.22%	6.724%
5	11.888	1031	1039	1048	rBV	2240748	4521623	68.13%	13.006%
6	13.161	1211	1219	1235	rBV	3129086	6636556	100.00%	19.090%
7	14.554	1410	1416	1429	rBV	2347576	4982980	75.08%	14.333%
8	15.106	1487	1494	1500	rBV4	45986	107411	1.62%	0.309%
9	15.184	1500	1505	1509	rVV2	121526	243159	3.66%	0.699%
10	15.530	1551	1554	1558	rBV6	36926	80909	1.22%	0.233%
11	15.672	1567	1574	1588	rVB	2088802	4522557	68.15%	13.009%
12	16.888	1738	1746	1755	rVB	2179971	4985049	75.11%	14.339%
13	18.204	1924	1932	1938	rBV5	50702	126496	1.91%	0.364%
14	19.901	2168	2172	2181	rVB8	37797	85753	1.29%	0.247%

Sum of corrected areas: 34764923

2FV013.D S1306004.M Fri Jun 28 09:58:56 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV013.D
Operator : kat
Acquired : 27 Jun 2013 20:17 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-14
Misc Info :
Vial Number: 13
Quant File :S1306004.RES (RTE Integrator)



2FV013.D S1306004.M Fri Jun 28 09:58:57 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV014.D Vial: 14
Acq On : 27 Jun 2013 20:53 Operator: kat
Sample : a303499-15 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1452300	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	2051667	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1756856	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	860545	50.00	ug/kg	0.00

System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	757651	49.48	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 98.96%			
44) 1,2-Dichloroethane-d4	11.47	65	844785	49.58	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 99.16%			
56) D8-Toluene	13.16	98	2358103	49.15	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 98.30%			
77) Bromofluorobenzene	15.67	95	902900	46.10	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 92.20%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D.	d	
6) Chloroethane	0.00	64		N.D.	d	
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D.		
10) Acetone	0.00	43		N.D.	d	
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D.		
14) Iodomethane	0.00	142		N.D.		
15) Carbon disulfide	0.00	76		N.D.		
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.		
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	0.00	72		N.D.	d	
26) Propionitrile	0.00	54		N.D.	d	
27) 2,2-Dichloropropane	0.00	77		N.D.	d	
28) Methacrylonitrile	0.00	67		N.D.	d	
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	10.91	113	757651	49.48	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D.	d	
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV014.D Vial: 14
Acq On : 27 Jun 2013 20:53 Operator: kat
Sample : a303499-15 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D. d	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.47	65	844785	49.58 ug/kg	95
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D. d	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D.	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.16	98	2358103	49.15 ug/kg	99
59)	Toluene	13.21	92	8898	0.27 ug/kg#	71
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	0.00	106		N.D.	
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.67	95	902900	46.10 ug/kg#	81
79)	T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80)	N-Propylbenzene	0.00	91		N.D.	
82)	Bromobenzene	0.00	156		N.D.	
83)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
84)	2-Chlorotoluene	0.00	91		N.D.	
85)	4-Chlorotoluene	0.00	91		N.D.	
86)	1,2,4-Trimethylbenzene	0.00	105		N.D.	
87)	s-Butylbenzene	0.00	105		N.D.	
88)	tert-Butylbenzene	0.00	119		N.D.	
89)	p-Isopropyltoluene	0.00	119		N.D.	
90)	1,3-Dichlorobenzene	0.00	146		N.D.	
91)	1,4-Dichlorobenzene	0.00	146		N.D.	
92)	1,2-Dichlorobenzene	0.00	146		N.D.	
93)	N-Butylbenzene	0.00	91		N.D.	
94)	DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV014.D Vial: 14
Acq On : 27 Jun 2013 20:53 Operator: kat
Sample : a303499-15 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

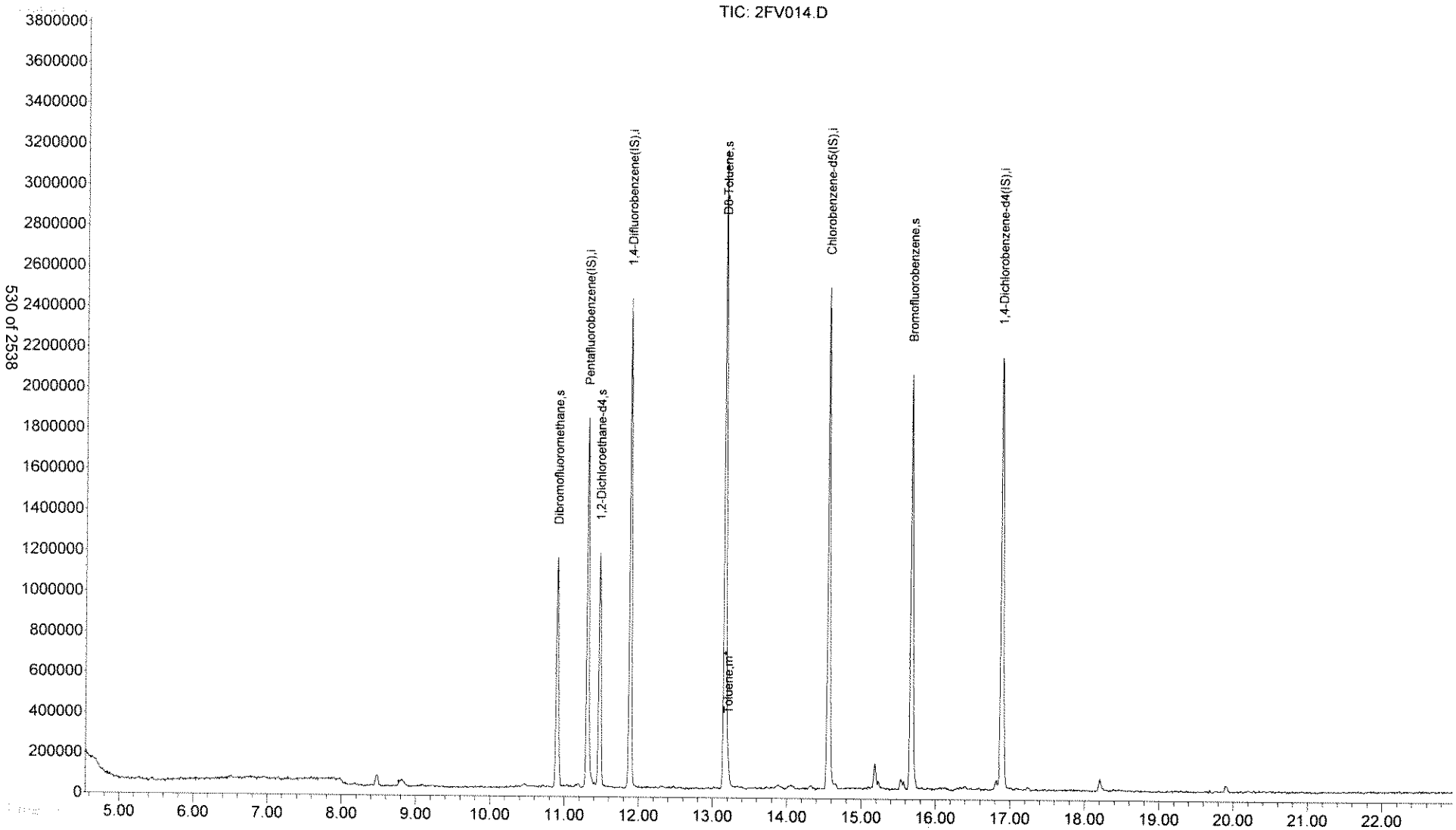
Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV014.D
Acq On : 27 Jun 2013 20:53
Sample : a303499-15
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013

Vial: 14
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



2FV014.D S1306004.M Fri Jun 28 09:59:24 2013

Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 20:53
Data File: C:\HPCHEM\1\DATA\062713\2FV014.D
Name: a303499-15
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV014.D S1306004.M Fri Jun 28 09:59:35 2013

KD 02813

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV014.D
Acq On : 27 Jun 2013 20:53
Sample : a303499-15
Misc :
MS Integration Params: LSCINT.P

Vial: 14
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

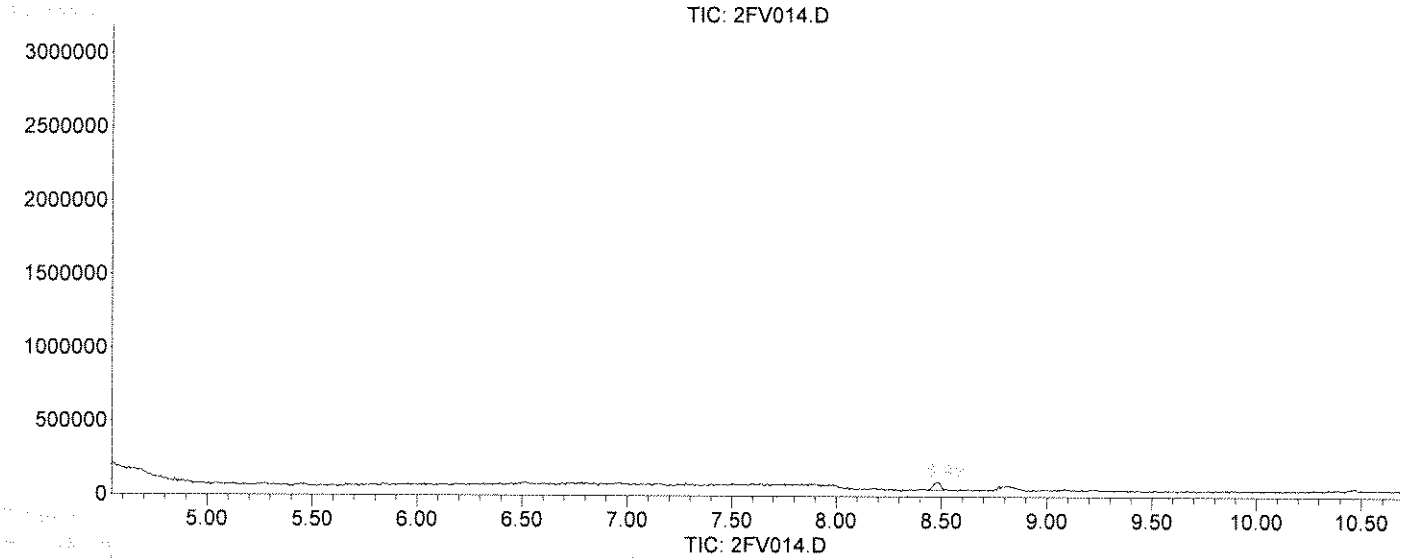
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.488	550	558	562	rBV4	52909	141098	2.15%	0.397%
2	10.907	892	900	907	rBV	1133702	2457470	37.41%	6.923%
3	11.310	950	957	969	rBV	1819830	3799031	57.83%	10.702%
4	11.473	973	980	989	rVB	1148917	2344074	35.68%	6.603%
5	11.883	1030	1038	1048	rBV	2406193	4737381	72.12%	13.345%
6	13.163	1210	1219	1234	rBV	3142880	6568971	100.00%	18.505%
7	14.556	1408	1416	1426	rBV	2468148	5217319	79.42%	14.697%
8	15.185	1500	1505	1509	rBV3	118033	240694	3.66%	0.678%
9	15.532	1550	1554	1558	rBV6	51618	111627	1.70%	0.314%
10	15.673	1567	1574	1586	rBV	2043613	4494758	68.42%	12.662%
11	16.819	1730	1736	1739	rBV5	47432	100017	1.52%	0.282%
12	16.883	1739	1745	1758	rVB	2120529	5045929	76.81%	14.214%
13	18.205	1924	1932	1941	rBV6	62452	168618	2.57%	0.475%
14	19.888	2167	2170	2176	rBV7	31786	72167	1.10%	0.203%

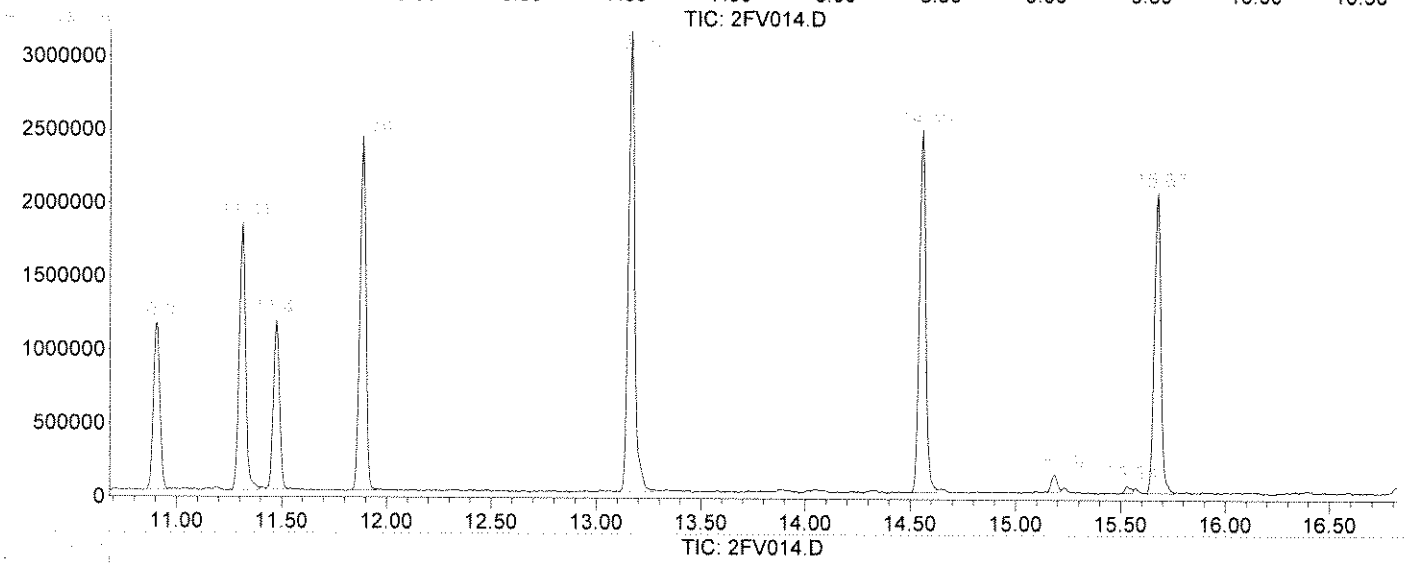
Sum of corrected areas: 35499154

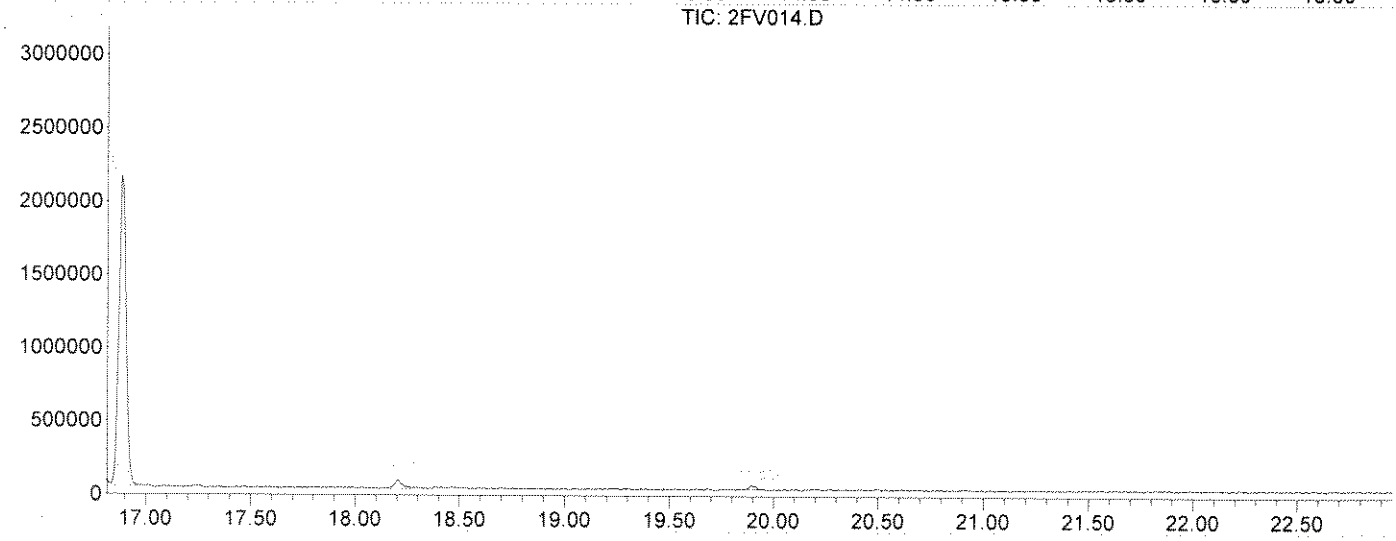
2FV014.D S1306004.M Fri Jun 28 09:59:34 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV014.D
Operator : kat
Acquired : 27 Jun 2013 20:53 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-15
Misc Info :
Vial Number: 14
Quant File :S1306004.RES (RTE Integrator)







Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV015.D
Vial: 15
Acq On : 27 Jun 2013 21:28
Operator: kat
Sample : a303499-17
Inst : OVGCMS2
Misc :
Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LE 06/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1347780	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1878184	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1594407	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	776955	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	696339	49.00	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 98.00%			
44) 1,2-Dichloroethane-d4	11.47	65	773380	49.58	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 99.16%			
56) D8-Toluene	13.16	98	2112301	48.10	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 96.20%			
77) Bromofluorobenzene	15.67	95	771372	43.40	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 86.80%			

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D.	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D.	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D.	
26) Propionitrile	0.00	54		N.D. d	
27) 2,2-Dichloropropane	0.00	77		N.D. d	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.90	113	696339	49.00 ug/kg	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV015.D Vial: 15
Acq On : 27 Jun 2013 21:28 Operator: kat
Sample : a303499-17 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D.	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.47	65	773380	49.58 ug/kg	94
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D.	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D.	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.16	98	2112301	48.10 ug/kg	100
59)	Toluene	0.00	92		N.D.	
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	0.00	106		N.D.	
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.67	95	771372	43.40 ug/kg#	80
79)	T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80)	N-Propylbenzene	0.00	91		N.D.	
82)	Bromobenzene	0.00	156		N.D.	
83)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
84)	2-Chlorotoluene	0.00	91		N.D.	
85)	4-Chlorotoluene	0.00	91		N.D.	
86)	1,2,4-Trimethylbenzene	0.00	105		N.D.	
87)	s-Butylbenzene	0.00	105		N.D.	
88)	tert-Butylbenzene	0.00	119		N.D.	
89)	p-Isopropyltoluene	0.00	119		N.D.	
90)	1,3-Dichlorobenzene	0.00	146		N.D.	
91)	1,4-Dichlorobenzene	0.00	146		N.D.	
92)	1,2-Dichlorobenzene	0.00	146		N.D.	
93)	N-Butylbenzene	0.00	91		N.D.	
94)	DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV015.D Vial: 15
Acq On : 27 Jun 2013 21:28 Operator: kat
Sample : a303499-17 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

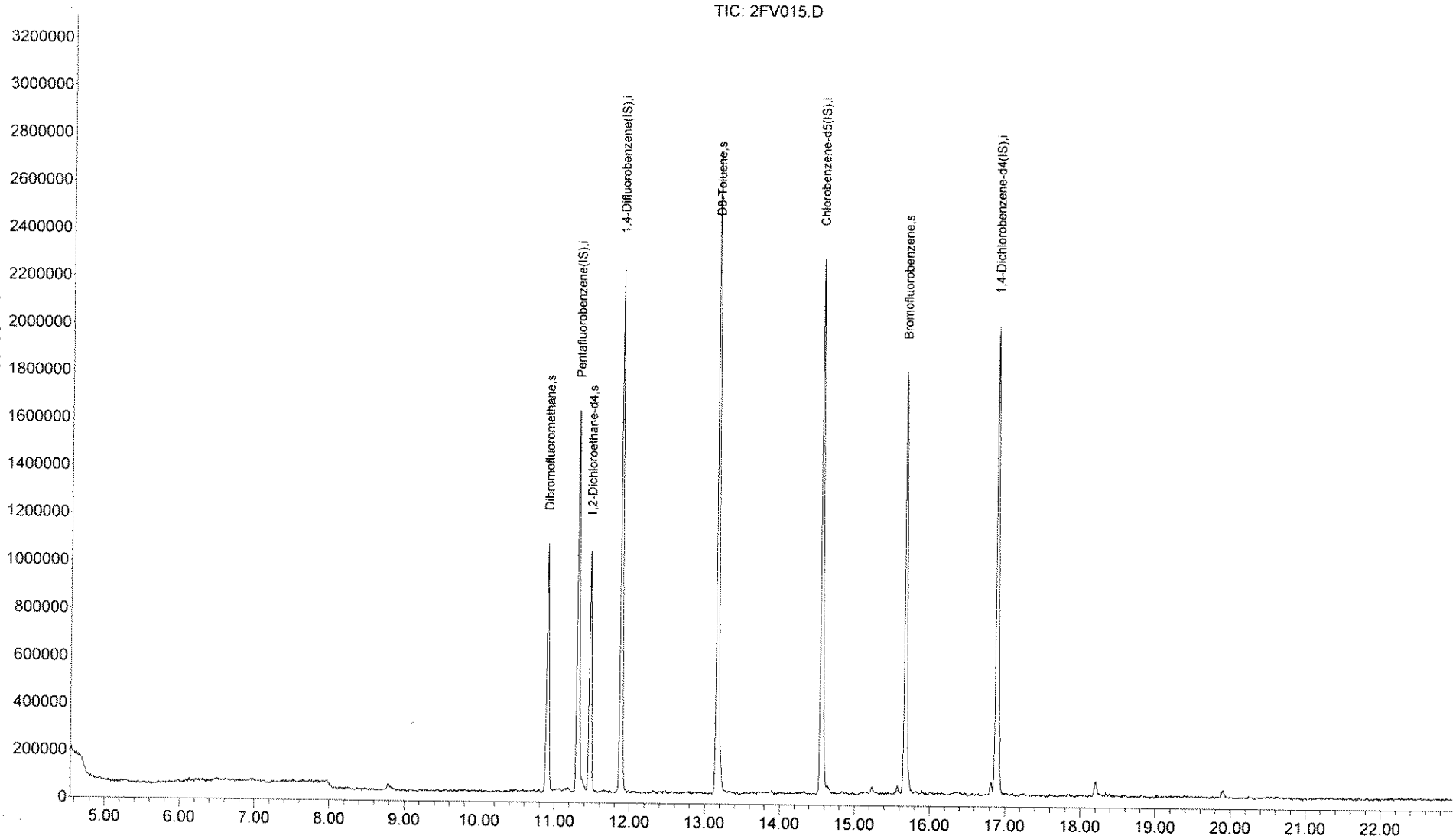
Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV015.D
Acq On : 27 Jun 2013 21:28
Sample : a303499-17
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 9:59 2013

Vial: 15
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



2FV015.D S1306004.M Fri Jun 28 10:00:00 2013

Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 21:28
Data File: C:\HPCHEM\1\DATA\062713\2FV015.D
Name: a303499-17
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV015.D S1306004.M Fri Jun 28 10:00:12 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV015.D Vial: 15
Acq On : 27 Jun 2013 21:28 Operator: kat
Sample : a303499-17 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

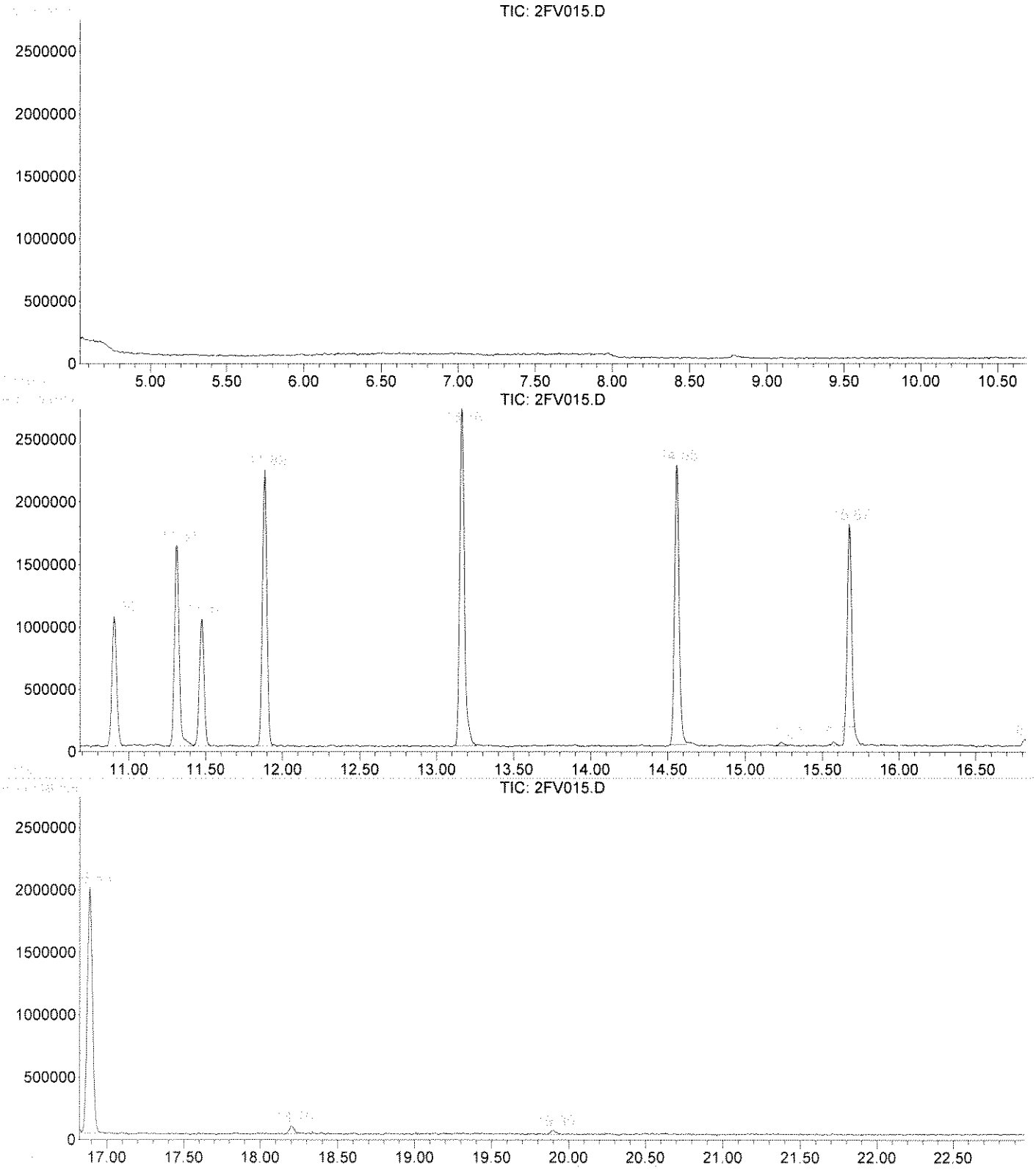
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.904	893	900	908	rBV	1045723	2259482	39.03%	7.137%
2	11.315	951	958	973	rBV	1607834	3539994	61.15%	11.182%
3	11.477	973	981	990	rVB	1018343	2174649	37.57%	6.869%
4	11.887	1030	1039	1046	rBV	2213597	4304789	74.36%	13.598%
5	13.160	1213	1219	1233	rBV	2701404	5788997	100.00%	18.286%
6	14.554	1410	1416	1425	rBV	2243627	4680355	80.85%	14.784%
7	15.232	1507	1512	1518	rBV6	28292	67266	1.16%	0.212%
8	15.572	1557	1560	1566	rVB8	34760	62040	1.07%	0.196%
9	15.671	1567	1574	1585	rBV	1772763	3843081	66.39%	12.139%
10	16.817	1731	1736	1739	rBV4	56387	104076	1.80%	0.329%
11	16.887	1739	1746	1757	rVB	1970573	4599827	79.46%	14.530%
12	18.203	1925	1932	1937	rBV4	62011	152665	2.64%	0.482%
13	19.900	2166	2172	2179	rVB7	32008	80770	1.40%	0.255%

Sum of corrected areas: 31657991

2FV015.D S1306004.M Fri Jun 28 10:00:11 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV015.D
Operator : kat
Acquired : 27 Jun 2013 21:28 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-17
Misc Info :
Vial Number: 15
Quant File :S1306004.RES (RTE Integrator)



2FV015.D S1306004.M Fri Jun 28 10:50:12 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV016.D Vial: 16
Acq On : 27 Jun 2013 22:02 Operator: kat
Sample : a303499-18 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:00 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1379398	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1956594	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1645239	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.88	152	847184	50.00	ug/kg	-0.01

System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	740923	50.94	ug/kg	-0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 101.88%			
44) 1,2-Dichloroethane-d4	11.47	65	855321	52.64	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 105.28%			
56) D8-Toluene	13.16	98	2361162	51.61	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 103.22%			
77) Bromofluorobenzene	15.67	95	966442	52.69	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 105.38%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D. d		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D. d		
6) Chloroethane	0.00	64		N.D.		
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D. d		
10) Acetone	8.85	43	317735	44.53	ug/kg	100
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D. d		
13) Acetonitrile	0.00	41		N.D. d		
14) Iodomethane	0.00	142		N.D. d		
15) Carbon disulfide	0.00	76		N.D. d		
16) Methylene Chloride	0.00	84		N.D. d		
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.		
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	11.02	72	8336	3.97	ug/kg	98
26) Propionitrile	0.00	54		N.D. d		
27) 2,2-Dichloropropane	0.00	77		N.D. d		
28) Methacrylonitrile	0.00	67		N.D. d		
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	10.90	113	740923	50.94	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D. d		
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV016.D
Acq On : 27 Jun 2013 22:02
Sample : a303499-18
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 10:00 2013

Vial: 16
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.47	65	855321	52.64 ug/kg	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2361162	51.61 ug/kg	99
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	966442	52.69 ug/kg#	82
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\062713\2FV016.D Vial: 16
Acq On : 27 Jun 2013 22:02 Operator: kat
Sample : a303499-18 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:00 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	0.00	128		N.D. d	
96)	1,2,4-Trichlorobenzene	0.00	180		N.D.	
97)	Hexachlorobutadiene	0.00	225		N.D.	
98)	1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

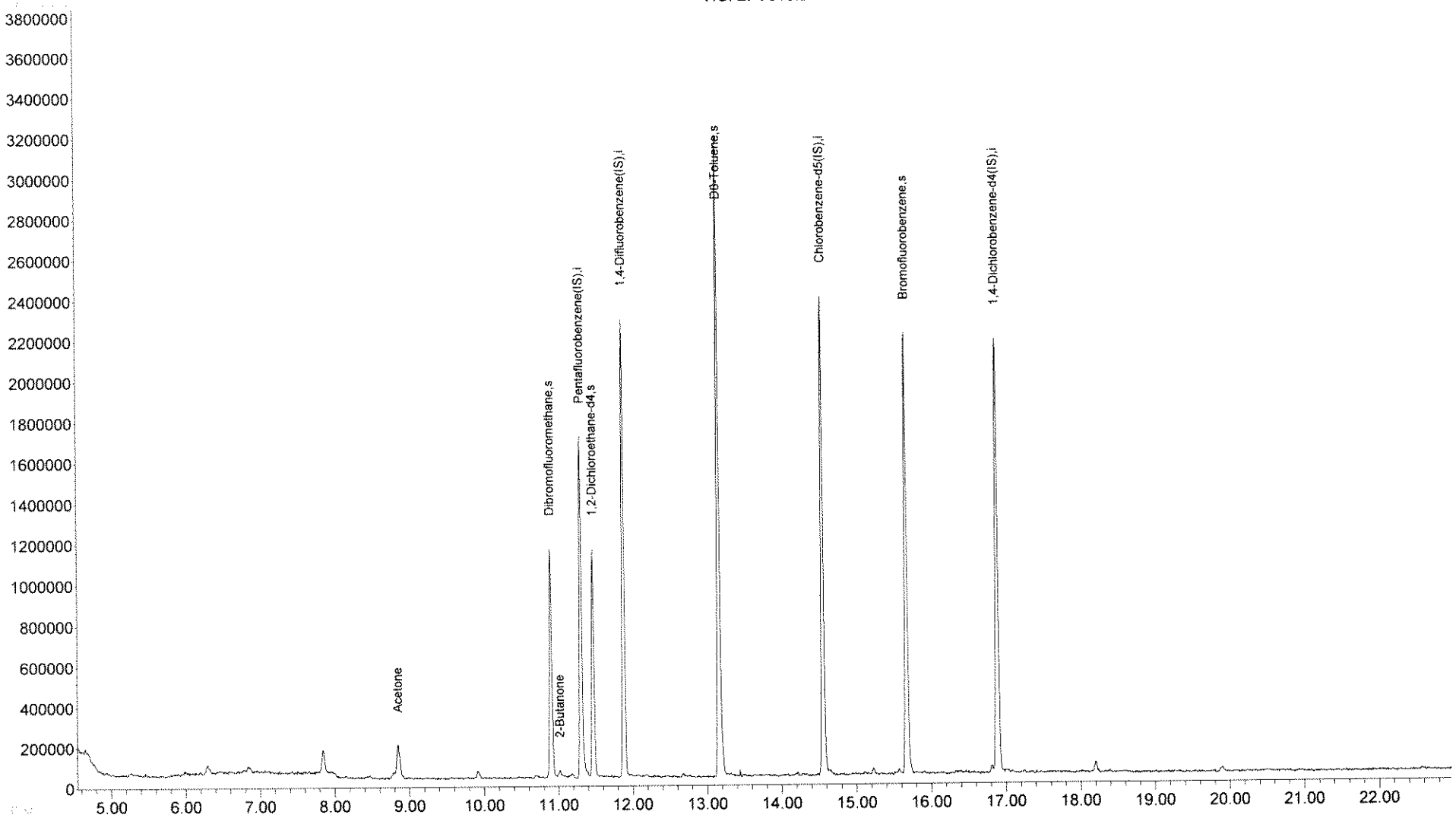
Data File : C:\HPCHEM\1\DATA\062713\2FV016.D
Acq On : 27 Jun 2013 22:02
Sample : a303499-18
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 10:00 2013

Vial: 16
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration

TIC: 2FV016.D



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 22:02
Data File: C:\HPCHEM\1\DATA\062713\2FV016.D
Name: a303499-18
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV016.D S1306004.M Fri Jun 28 10:01:02 2013

KSD 6/28/13

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV016.D Vial: 16
Acq On : 27 Jun 2013 22:02 Operator: kat
Sample : a303499-18 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

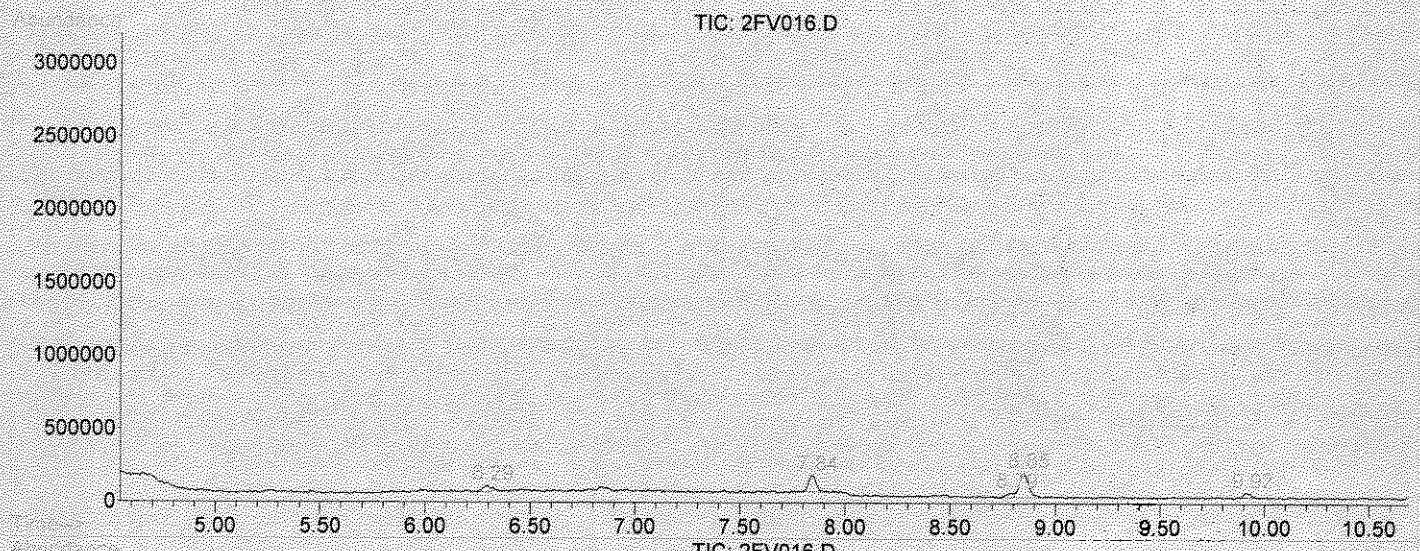
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.295	240	248	251	rBV2	46751	114714	1.75%	0.324%
2	7.843	460	467	473	rBV3	111159	286075	4.37%	0.808%
3	8.791	592	601	603	rBV8	32395	90000	1.37%	0.254%
4	8.848	603	609	622	rVB	169417	521675	7.96%	1.474%
5	9.915	755	760	766	rVB4	35757	84259	1.29%	0.238%
6	10.898	891	899	908	rBV	1128919	2439434	37.23%	6.890%
7	11.309	949	957	967	rBV	1684350	3605227	55.02%	10.183%
8	11.471	973	980	991	rVB	1121944	2334157	35.62%	6.593%
9	11.881	1030	1038	1046	rBV	2251788	4486228	68.46%	12.672%
10	13.161	1211	1219	1232	rBV	3160890	6552771	100.00%	18.509%
11	14.555	1408	1416	1425	rBV	2359518	4938138	75.36%	13.948%
12	15.672	1566	1574	1587	rBV	2171883	4754130	72.55%	13.429%
13	16.818	1727	1736	1738	rBV5	40030	87693	1.34%	0.248%
14	16.881	1738	1745	1756	rVB	2127838	5006283	76.40%	14.141%
15	18.204	1927	1932	1936	rBV5	51058	102370	1.56%	0.289%

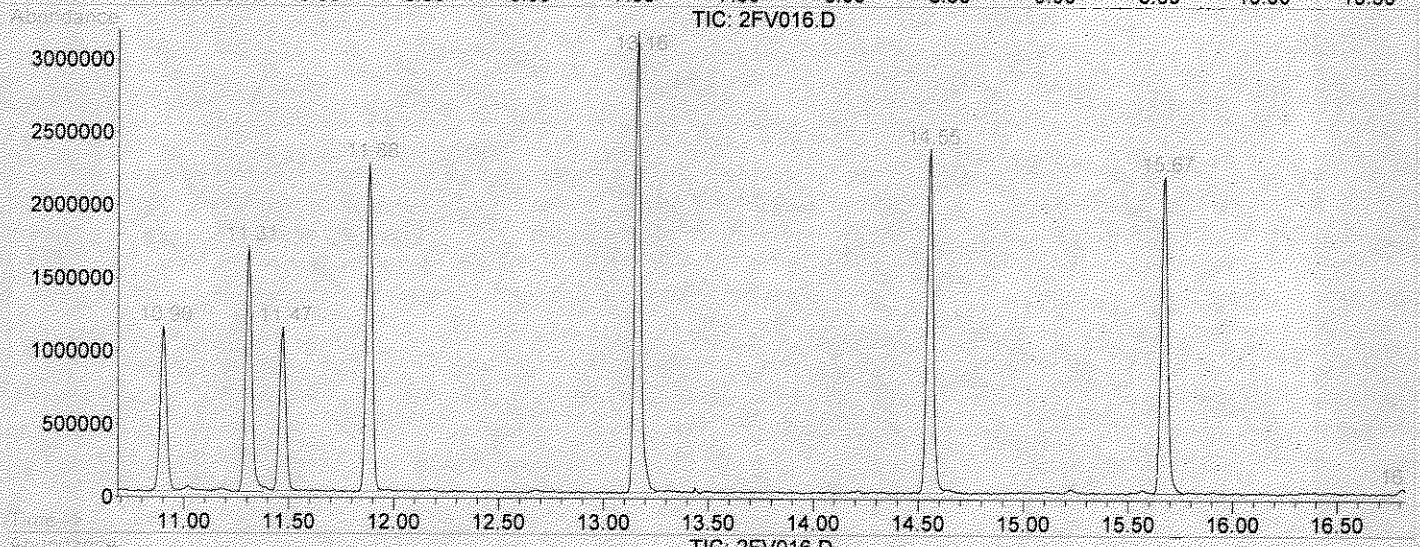
Sum of corrected areas: 35403154

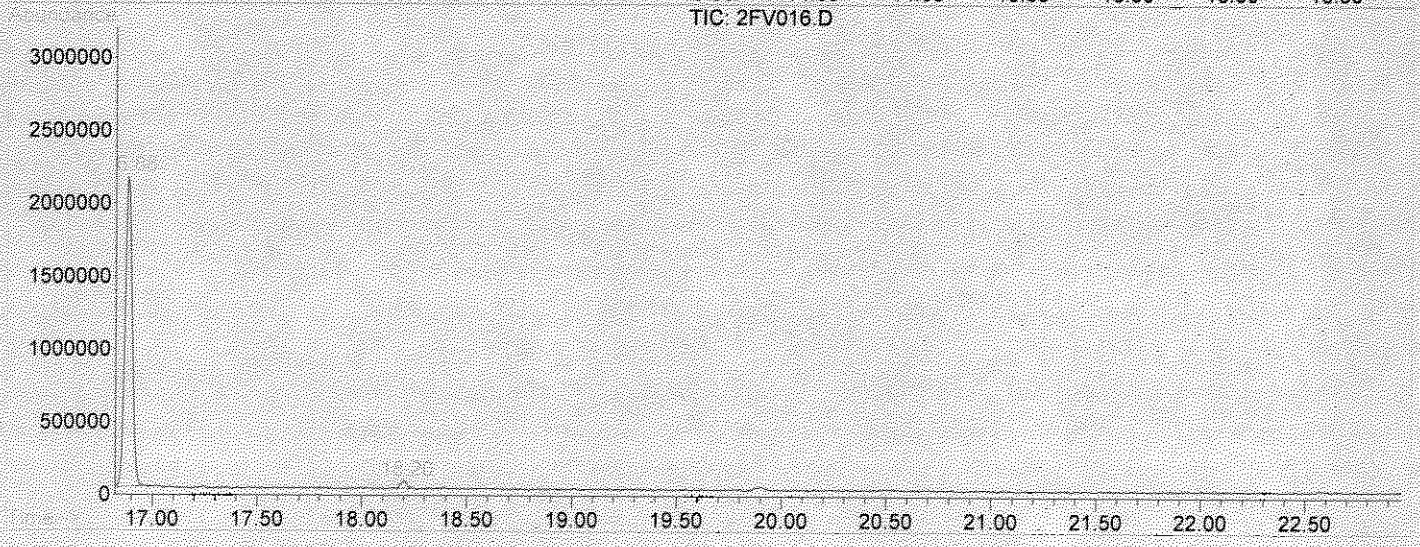
2FV016.D S1306004.M Fri Jun 28 10:01:01 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV016.D
Operator : kat
Acquired : 27 Jun 2013 22:02 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-18
Misc Info :
Vial Number: 16
Quant File :S1306004.RES (RTE Integrator)







Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV017.D Vial: 17
Acq On : 27 Jun 2013 22:37 Operator: kat
Sample : a303499-19 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:01 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

1604283

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1360164	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1954100	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1640533	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	827335	50.00	ug/kg	0.00

System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	720100	50.21	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 100.42%			
44) 1,2-Dichloroethane-d4	11.48	65	826851	50.95	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 101.90%			
56) D8-Toluene	13.16	98	2236708	48.95	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 97.90%			
77) Bromofluorobenzene	15.67	95	880723	48.16	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 96.32%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.	d	
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D.	d	
6) Chloroethane	0.00	64		N.D.	d	
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D.		
10) Acetone	0.00	43		N.D.	d	
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D.		
14) Iodomethane	0.00	142		N.D.		
15) Carbon disulfide	0.00	76		N.D.		
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.	d	
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	0.00	72		N.D.		
26) Propionitrile	0.00	54		N.D.		
27) 2,2-Dichloropropane	0.00	77		N.D.		
28) Methacrylonitrile	0.00	67		N.D.	d	
29) Chloroform	10.70	83	12187	0.51	ug/kg	90
31) Dibromofluoromethane	10.90	113	720100	50.21	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D.	d	
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV017.D Vial: 17
Acq On : 27 Jun 2013 22:37 Operator: kat
Sample : a303499-19 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:01 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.48	65	826851	50.95 ug/kg	95
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2236708	48.95 ug/kg	99
59) Toluene	0.00	92		N.D. d	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	880723	48.16 ug/kg#	82
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D. d	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV017.D Vial: 17
Acq On : 27 Jun 2013 22:37 Operator: kat
Sample : a303499-19 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:01 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

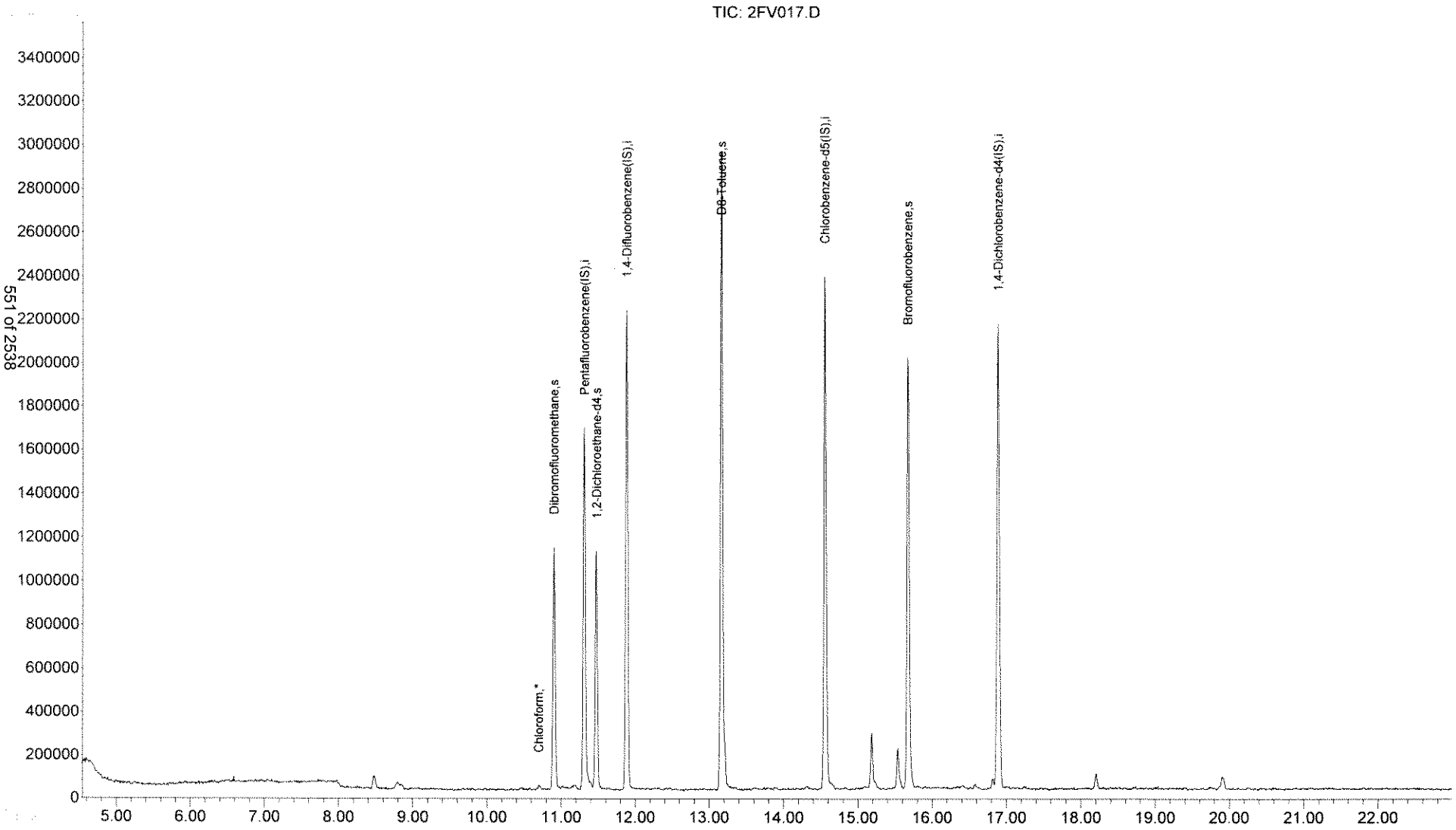
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV017.D Vial: 17
Acq On : 27 Jun 2013 22:37 Operator: kat
Sample : a303499-19 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:01 2013 Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 22:37
Data File: C:\HPCHEM\1\DATA\062713\2FV017.D
Name: a303499-19
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1R-.alpha.-Pinene	15.18	5.0	ug/kg	498229	ISTD03	14.55	4981780	50.0

2FV017.D S1306004.M Fri Jun 28 10:02:59 2013

VG06 28/13

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\062713\2FV017.D Vial: 17
Acq On : 27 Jun 2013 22:37 Operator: kat
Sample : a303499-19 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 1R-.alpha.-Pinene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	5.00 ug/kg	498229	Chlorobenzene-d5(IS)	14.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1R-.alpha.-Pinene	136	C10H16	007785-70-8	97
2	.alpha.-Pinene	136	C10H16	000080-56-8	96
3	Bicyclo[3.1.1]hept-2-ene, 2,6,6-tri	136	C10H16	002437-95-8	94
4	.alpha.-Pinene	136	C10H16	000080-56-8	93
5	Tricyclo[2.2.1.02,6]heptane, 1,3,3-	136	C10H16	000488-97-1	93

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV017.D Vial: 17
Acq On : 27 Jun 2013 22:37 Operator: kat
Sample : a303499-19 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

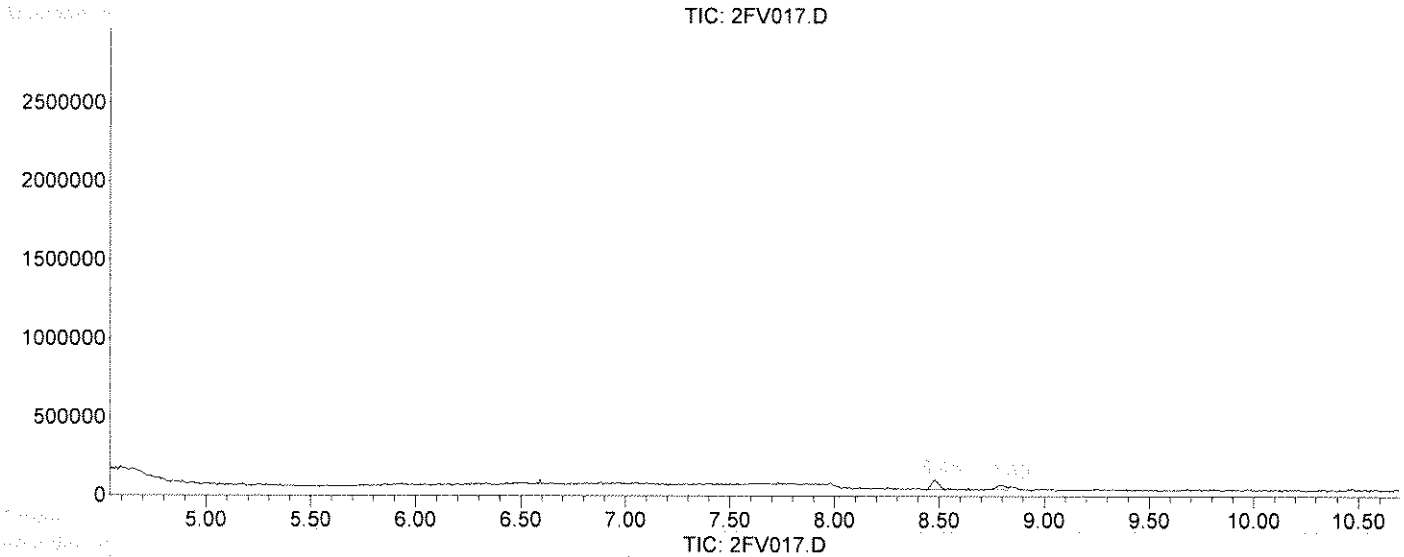
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.479	552	557	565	rBV2	62157	161243	2.58%	0.464%
2	8.804	595	603	607	rBV8	30208	103763	1.66%	0.298%
3	10.905	892	900	913	rBV	1115049	2389228	38.21%	6.870%
4	11.315	950	958	968	rBV	1662436	3566235	57.03%	10.254%
5	11.477	973	981	991	rVB	1092033	2298275	36.75%	6.608%
6	11.888	1030	1039	1048	rBV	2203594	4474742	71.56%	12.866%
7	13.160	1211	1219	1230	rBV	2936534	6253116	100.00%	17.979%
8	14.554	1409	1416	1427	rBV	2353449	4981776	79.67%	14.324%
9	15.183	1499	1505	1511	rBV	249952	498229	7.97%	1.433%
10	15.537	1547	1555	1566	rVB3	186079	416415	6.66%	1.197%
11	15.671	1566	1574	1589	rBV	1979221	4362712	69.77%	12.544%
12	16.817	1732	1736	1739	rBV3	41703	75547	1.21%	0.217%
13	16.887	1739	1746	1758	rVB	2130837	4924185	78.75%	14.158%
14	18.203	1923	1932	1941	rBV3	71307	166591	2.66%	0.479%
15	19.900	2165	2172	2174	rBV7	54597	107727	1.72%	0.310%

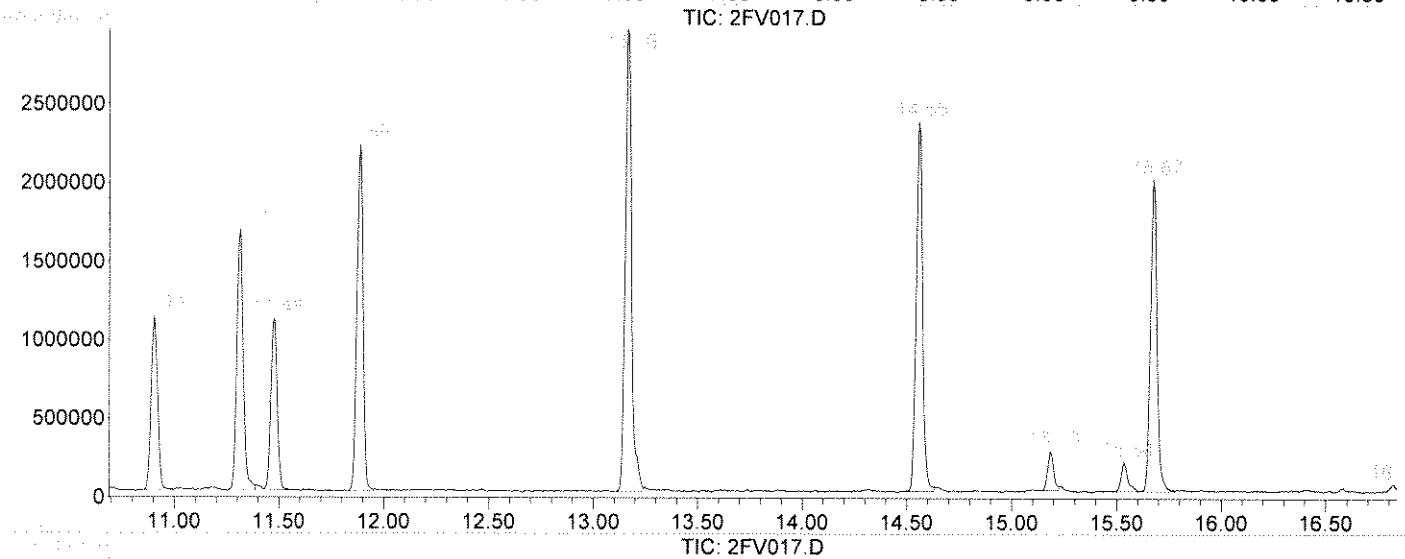
Sum of corrected areas: 34779784

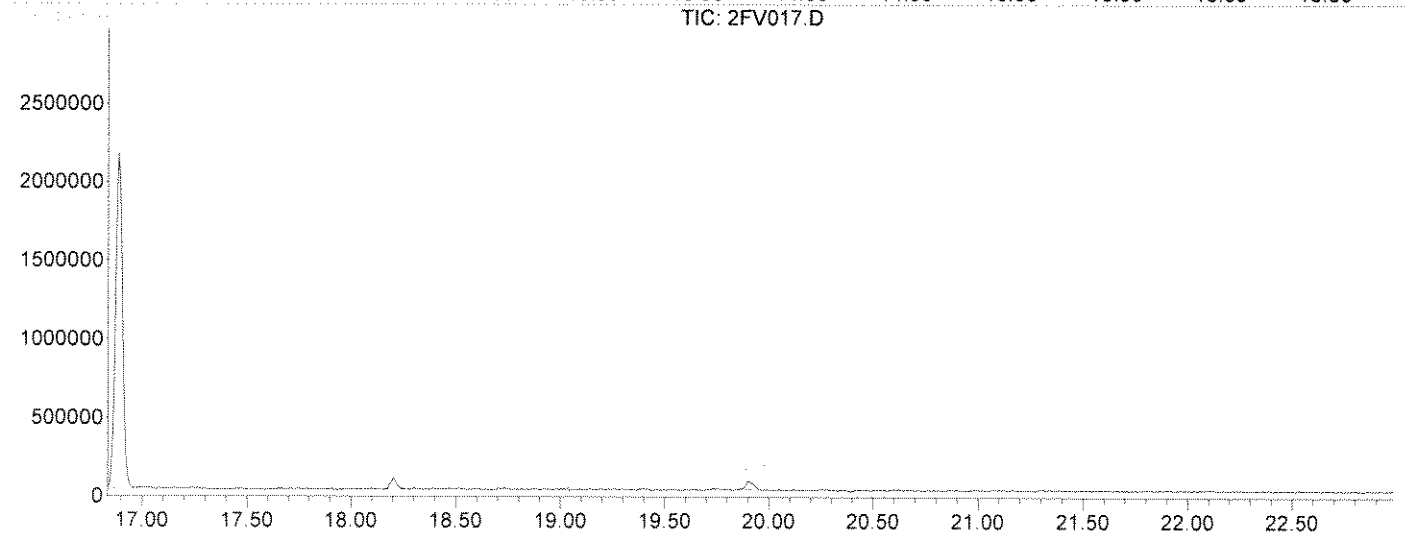
2FV017.D S1306004.M Fri Jun 28 10:02:58 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV017.D
Operator : kat
Acquired : 27 Jun 2013 22:37 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-19
Misc Info :
Vial Number: 17
Quant File :S1306004.RES (RTE Integrator)







Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV018.D
Acq On : 27 Jun 2013 23:11
Sample : a303499-20
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 10:03 2013

Vial: 18
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1289083	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1832861	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1535520	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	777227	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	743408	54.69	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 109.38%			
44) 1,2-Dichloroethane-d4	11.47	65	846981	55.64	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 111.28%			
56) D8-Toluene	13.16	98	2251468	52.53	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 105.06%			
77) Bromofluorobenzene	15.67	95	865323	50.55	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 101.10%			

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D.	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D. d	
6) Chloroethane	0.00	64	N.D. d	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D.	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D.	
15) Carbon disulfide	0.00	76	N.D. d	
16) Methylene Chloride	0.00	84	N.D. d	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D. d	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D.	
26) Propionitrile	0.00	54	N.D.	
27) 2,2-Dichloropropane	0.00	77	N.D. d	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	10.90	113	743408	54.69 ug/kg 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D. d	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV018.D Vial: 18
Acq On : 27 Jun 2013 23:11 Operator: kat
Sample : a303499-20 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:03 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D.	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.47	65	846981	55.64 ug/kg	95
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2251468	52.53 ug/kg	100
59) Toluene	13.21	92	8136	0.28 ug/kg#	70
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	14.65	106	6536	0.33 ug/kg	90
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	865323	50.55 ug/kg#	81
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV018.D Vial: 18
Acq On : 27 Jun 2013 23:11 Operator: kat
Sample : a303499-20 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:03 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

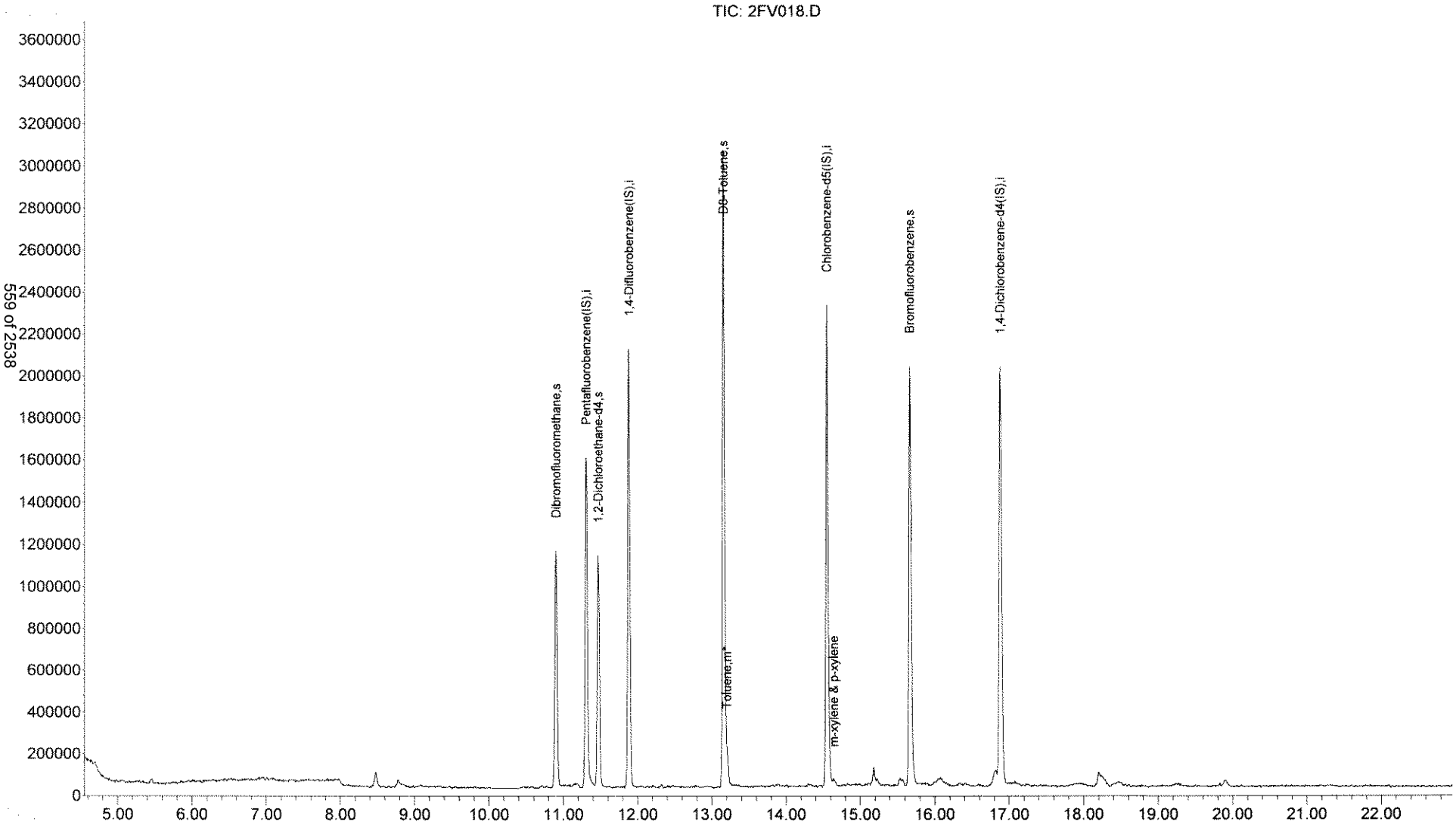
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV018.D Vial: 18
Acq On : 27 Jun 2013 23:11 Operator: kat
Sample : a303499-20 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:03 2013 Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 23:11
Data File: C:\HPCHEM\1\DATA\062713\2FV018.D
Name: a303499-20
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV018.D S1306004.M Fri Jun 28 10:03:42 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV018.D Vial: 18
Acq On : 27 Jun 2013 23:11 Operator: kat
Sample : a303499-20 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

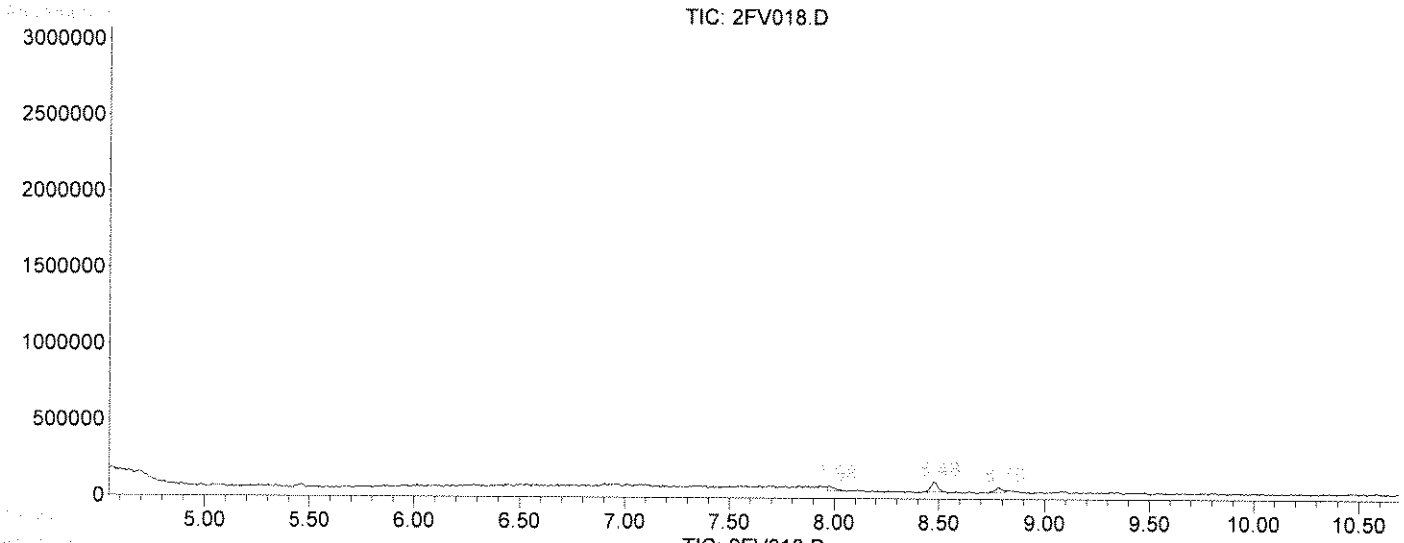
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.982	484	486	494	rVB7	33033	69312	1.10%	0.207%
2	8.477	550	556	563	rBV	68379	149898	2.37%	0.448%
3	8.781	593	599	604	rBV7	37324	97156	1.54%	0.291%
4	10.903	889	899	908	rBV	1135769	2453877	38.85%	7.341%
5	11.306	949	956	973	rBV	1575058	3421064	54.17%	10.234%
6	11.468	973	979	991	rVB	1107854	2345649	37.14%	7.017%
7	11.886	1031	1038	1046	rBV	2085959	4191620	66.37%	12.539%
8	13.159	1212	1218	1231	rBV	3032656	6315713	100.00%	18.893%
9	14.552	1408	1415	1426	rBV	2288656	4690998	74.28%	14.033%
10	15.181	1497	1504	1508	rBV3	88417	177594	2.81%	0.531%
11	15.535	1548	1554	1556	rBV6	35802	69230	1.10%	0.207%
12	15.669	1565	1573	1586	rBV	1998880	4286971	67.88%	12.824%
13	16.822	1725	1736	1738	rBV8	76411	250787	3.97%	0.750%
14	16.886	1738	1745	1755	rVB	1985888	4660036	73.78%	13.940%
15	18.201	1926	1931	1934	rBV5	61229	134451	2.13%	0.402%
16	19.891	2164	2170	2183	rVB5	31751	114496	1.81%	0.343%

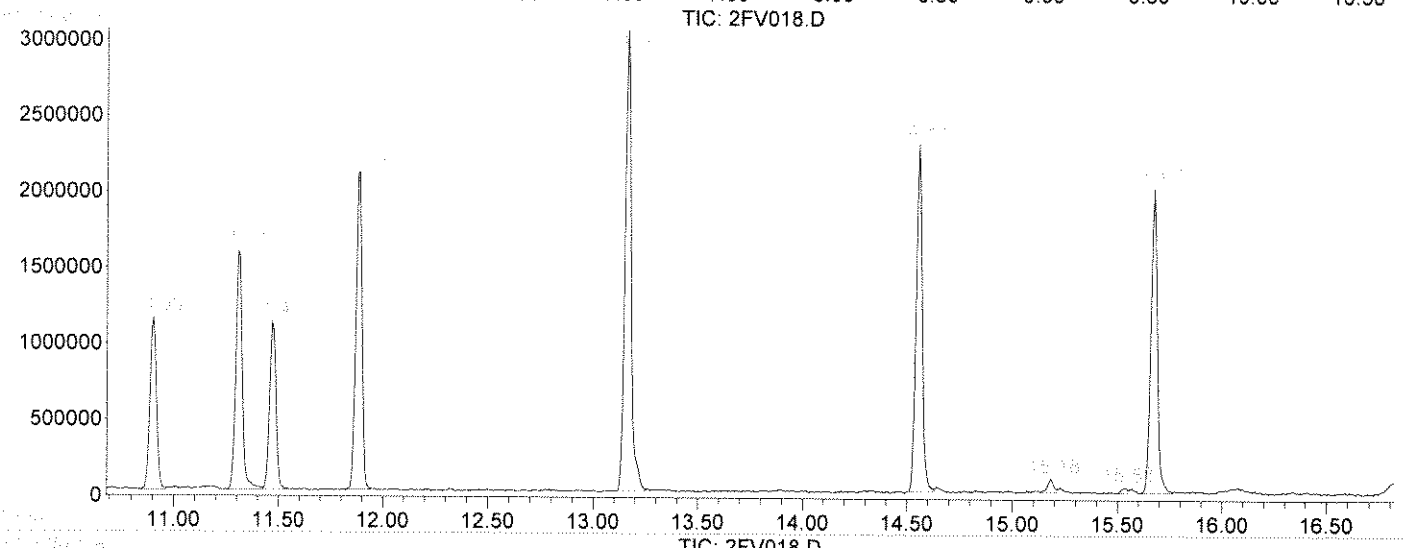
Sum of corrected areas: 33428852

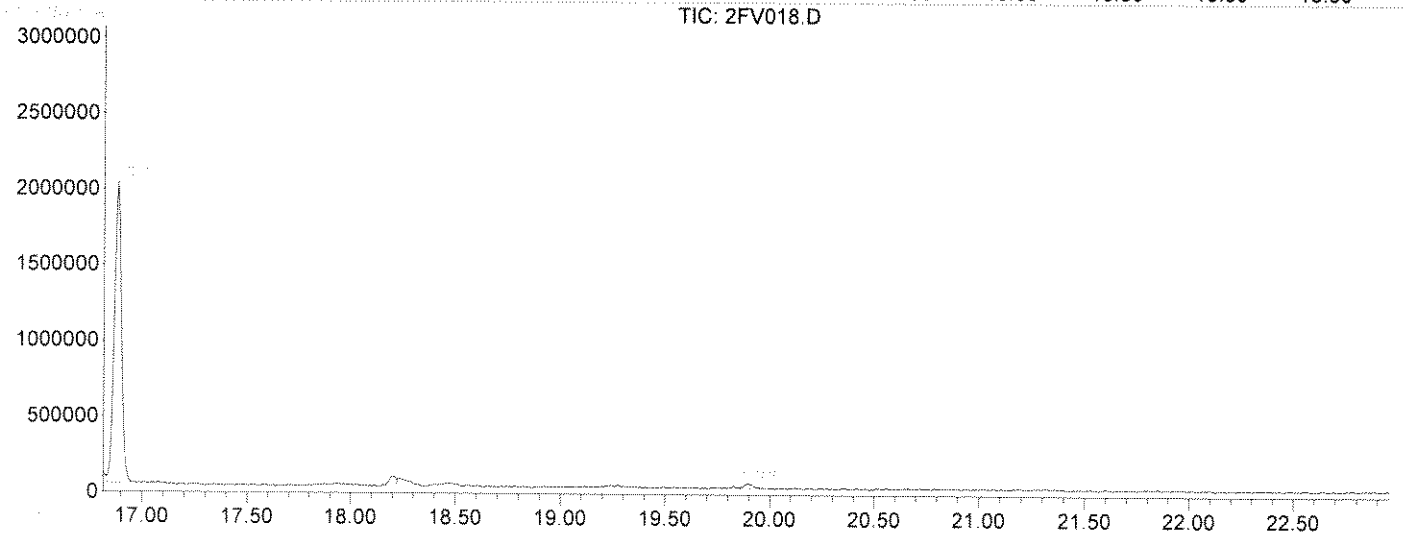
2FV018.D S1306004.M Fri Jun 28 10:03:41 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV018.D
Operator : kat
Acquired : 27 Jun 2013 23:11 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-20
Misc Info :
Vial Number: 18
Quant File :S1306004.RES (RTE Integrator)







2FV018.D S1306004.M Fri Jun 28 10:03:42 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV019.D Vial: 19
Acq On : 27 Jun 2013 23:44 Operator: kat
Sample : a303499-21 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:04 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1305659	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1839859	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1581220	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	800544	50.00 ug/kg	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.90	113	717796	52.14 ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 104.28%		
44) 1,2-Dichloroethane-d4	11.48	65	809684	52.99 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 105.98%		
56) D8-Toluene	13.17	98	2228862	51.81 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 103.62%		
77) Bromofluorobenzene	15.68	95	876823	49.74 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 99.48%		

Target Compounds

				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D. d	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D. d	
6) Chloroethane	0.00	64	N.D.	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D. d	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D. d	
15) Carbon disulfide	0.00	76	N.D.	
16) Methylene Chloride	0.00	84	N.D. d	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D.	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D.	
26) Propionitrile	0.00	54	N.D. d	
27) 2,2-Dichloropropane	0.00	77	N.D. d	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D. d	
31) Dibromofluoromethane	10.90	113	717796	52.14 ug/kg 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D.	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV019.D Vial: 19
Acq On : 27 Jun 2013 23:44 Operator: kat
Sample : a303499-21 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:04 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D.	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.48	65	809684	52.99 ug/kg	96
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.17	98	2228862	51.81 ug/kg	98
59) Toluene	0.00	92		N.D. d	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.68	95	876823	49.74 ug/kg#	82
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV019.D Vial: 19
Acq On : 27 Jun 2013 23:44 Operator: kat
Sample : a303499-21 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:04 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

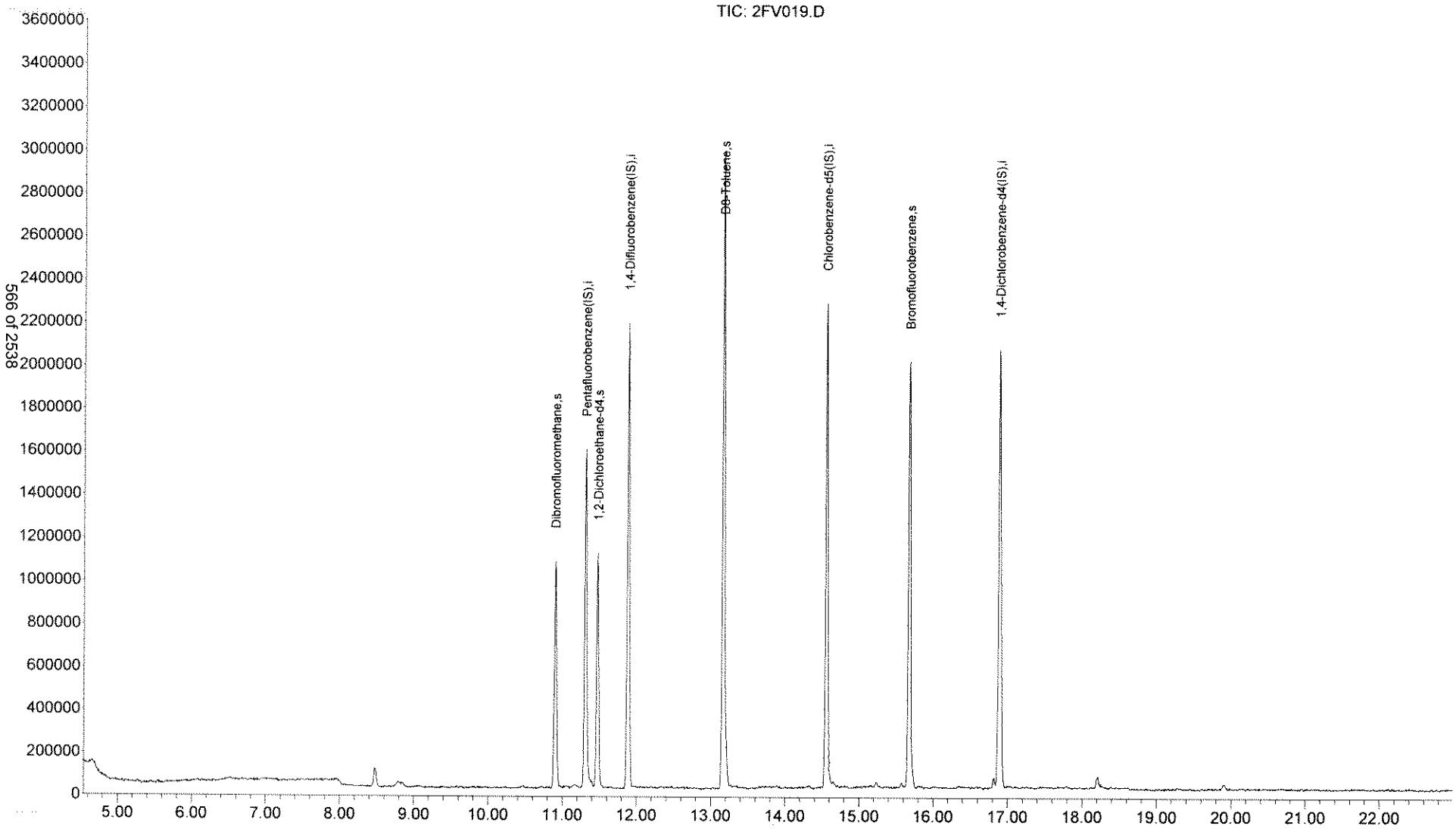
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV019.D
Acq On : 27 Jun 2013 23:44
Sample : a303499-21
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 10:04 2013

Vial: 19
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 27 Jun 2013 23:44
Data File: C:\HPCHEM\1\DATA\062713\2FV019.D
Name: a303499-21
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FV019.D S1306004.M Fri Jun 28 10:04:24 2013

KPC 02813

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV019.D Vial: 19
Acq On : 27 Jun 2013 23:44 Operator: kat
Sample : a303499-21 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

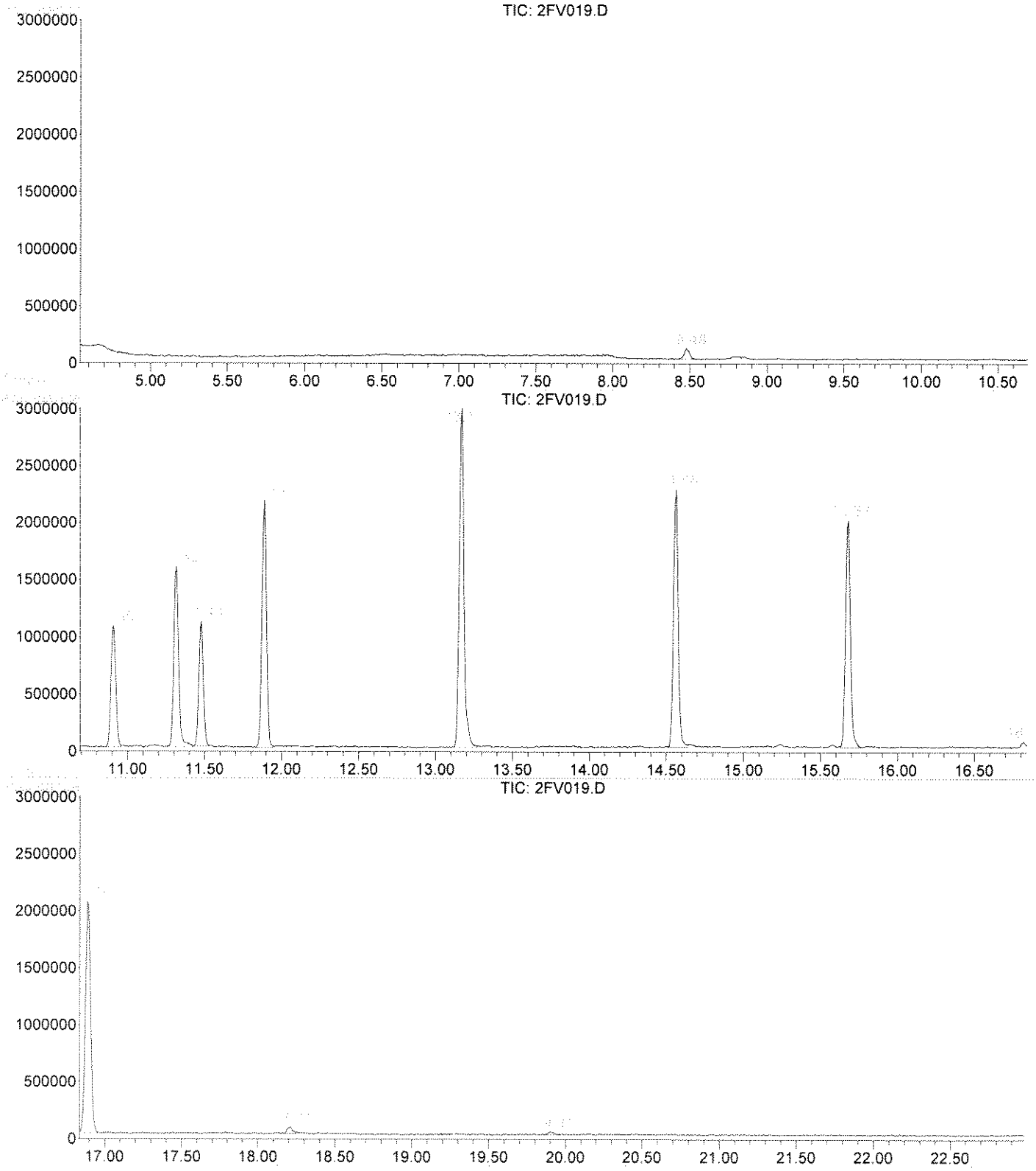
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.479	550	557	567	rVB2	91057	231027	3.73%	0.703%
2	10.905	892	900	907	rBV	1062436	2341779	37.81%	7.121%
3	11.315	949	958	974	rBV	1576497	3452929	55.75%	10.500%
4	11.478	974	981	988	rBV	1088757	2220095	35.85%	6.751%
5	11.888	1031	1039	1047	rBV	2167047	4281089	69.12%	13.019%
6	13.168	1213	1220	1234	rBV	2966949	6193539	100.00%	18.835%
7	14.561	1410	1417	1428	rBV	2251941	4749165	76.68%	14.442%
8	15.678	1568	1575	1588	rVB	1984973	4349630	70.23%	13.227%
9	16.817	1731	1736	1739	rBV6	45933	86196	1.39%	0.262%
10	16.888	1739	1746	1758	rVB	2035451	4762676	76.90%	14.483%
11	18.210	1927	1933	1938	rBV5	53741	131724	2.13%	0.401%
12	19.907	2166	2173	2181	rVB5	26180	84119	1.36%	0.256%

Sum of corrected areas: 32883968

2FV019.D S1306004.M Fri Jun 28 10:04:23 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV019.D
Operator : kat
Acquired : 27 Jun 2013 23:44 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-21
Misc Info :
Vial Number: 19
Quant File :S1306004.RES (RTE Integrator)



2FV019.D S1306004.M Fri Jun 28 10:04:24 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:05 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

VQ 6/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1377580	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1973757	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1618413	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	817874	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	649959	44.75	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 89.50%			
44) 1,2-Dichloroethane-d4	11.47	65	704649	42.99	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 85.98%			
56) D8-Toluene	13.16	98	2115717	45.84	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 91.68%			
77) Bromofluorobenzene	15.67	95	782545	43.37	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 86.74%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D. d		
6) Chloroethane	0.00	64		N.D. d		
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D. d		
10) Acetone	8.85	43	416483	58.45	ug/kg	97
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D. d		
14) Iodomethane	0.00	142		N.D.		
15) Carbon disulfide	7.97	76	21216	0.55	ug/kg	95
16) Methylene Chloride	0.00	84		N.D. d		
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.		
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D. d		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	11.03	72	25875	12.35	ug/kg	87
26) Propionitrile	0.00	54		N.D.		
27) 2,2-Dichloropropane	0.00	77		N.D.		
28) Methacrylonitrile	0.00	67		N.D. d		
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	10.91	113	649959	44.75	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D. d		
36) Methyl Acetate	0.00	74		N.D. d		
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:05 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	11.34	78	88565	1.73 ug/kg	89
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.47	65	704649	42.99 ug/kg	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	2115717	45.84 ug/kg	98
59) Toluene	13.21	92	34301	1.13 ug/kg	88
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D. d	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	14.54	106	43256	2.60 ug/kg	94
70) m-xylene & p-xylene	14.65	106	109343	5.22 ug/kg	84
71) O-Xylene	15.07	106	100722	4.60 ug/kg	92
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	15.34	105	72173	1.33 ug/kg	97
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	782545	43.37 ug/kg#	83
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D. d	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	15.90	105	155929	3.58 ug/kg	95
84) 2-Chlorotoluene	0.00	91		N.D. d	
85) 4-Chlorotoluene	0.00	91		N.D. d	
86) 1,2,4-Trimethylbenzene	16.34	105	600249	14.27 ug/kg	98
87) s-Butylbenzene	0.00	105		N.D. d	
88) tert-Butylbenzene	0.00	119		N.D. d	
89) p-Isopropyltoluene	16.58	119	53383	1.27 ug/kg	99
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:05 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

E DR

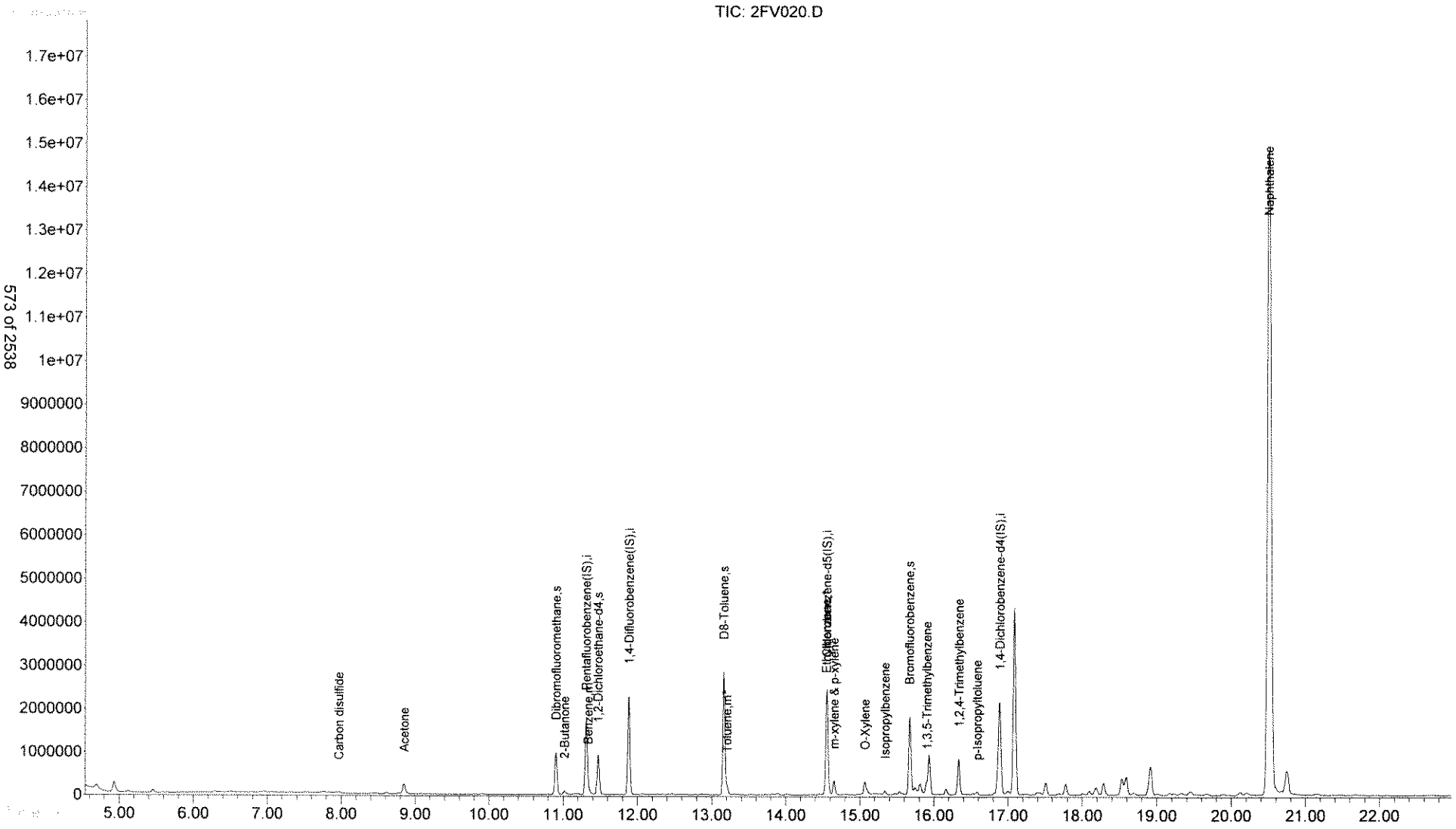
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.52	128	23864664	644.51 ug/kg	100
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 10:05 2013 Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 28 Jun 2013 00:17
Data File: C:\HPCHEM\1\DATA\062713\2FV020.D
Name: a303499-22
Misc:
Method: C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1306004
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	4.94	8.2	ug/kg	634261	ISTD01	11.32	3856480	50.0
Benzene, 1-ethyl-3-m	15.81	5.7	ug/kg	675437	ISTD04	16.89	5892730	50.0
Indane	17.09	84.5	ug/kg	9956230	ISTD04	16.89	5892730	50.0
Indene	17.51	5.8	ug/kg	686366	ISTD04	16.89	5892730	50.0
Indan, 1-methyl-	17.78	5.3	ug/kg	622770	ISTD04	16.89	5892730	50.0
2-Propenal, 3-phenyl	18.29	6.3	ug/kg	743873	ISTD04	16.89	5892730	50.0
Benzofuran, 2-methyl	18.53	8.4	ug/kg	987257	ISTD04	16.89	5892730	50.0
Indan, 1-methyl-	18.59	9.7	ug/kg	1144090	ISTD04	16.89	5892730	50.0
Indan, 1-methyl-	18.92	16.8	ug/kg	1974180	ISTD04	16.89	5892730	50.0
Benzo[c]thiophene	20.74	15.1	ug/kg	1784530	ISTD04	16.89	5892730	50.0

2FV020.D S1306004.M Fri Jun 28 10:06:24 2013

KD 6/28/13

Library Search Compound Report

```
  Data File : C:\HPCHEM\1\DATA\062713\2FV020.D            Vial: 20
  Acq On    : 28 Jun 2013  00:17                       Operator: kat
  Sample    : a303499-22                               Inst    : OVGCMS2
  Misc      :                                          Multiplr: 1.00
  MS Integration Params: LSCINT.P

  Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
  Title        : ENCO SOPVGCMS/05;element cal 1306004
  Library      : C:\DATABASE\NIST98.L

*********************************************************************
Peak Number  1  Methane, chlorodifluoro-        Concentration Rank  6

  R.T.   EstConc           Area       Relative to ISTD         R.T.
---------------------------------------------------------------------
  4.94    8.22 ug/kg      634261    Pentafluorobenzene(IS)     11.32

 Hit# of  5    Tentative ID             MW  MolForm       CAS#       Qual
---------------------------------------------------------------------
 1 Methane, chlorodifluoro-             86 CHClF2         000075-45-6 91
 2 Methane, chlorodifluoro-             86 CHClF2         000075-45-6 90
 3 Ethane, 1,1-difluoro-                66 C2H4F2         000075-37-6 4
 4 Ethane, 1,1-difluoro-                66 C2H4F2         000075-37-6 4
 5 Difluoroacetic acid                  96 C2H2F2O2       000381-73-7 4

*********************************************************************
Peak Number  2  Benzene, 1-ethyl-3-methyl-      Concentration Rank  9

  R.T.   EstConc           Area       Relative to ISTD         R.T.
---------------------------------------------------------------------
 15.81    5.73 ug/kg      675437    1,4-Dichlorobenzene-d4(IS)  16.89

 Hit# of  5    Tentative ID             MW  MolForm       CAS#       Qual
---------------------------------------------------------------------
 1 Benzene, 1-ethyl-3-methyl-          120 C9H12         000620-14-4 93
 2 Benzene, 1-ethyl-2-methyl-          120 C9H12         000611-14-3 93
 3 Benzene, 1-ethyl-2-methyl-          120 C9H12         000611-14-3 87
 4 Benzene, 1-ethyl-3-methyl-          120 C9H12         000620-14-4 87
 5 Benzene, 1-ethyl-3-methyl-          120 C9H12         000620-14-4 83

*********************************************************************
Peak Number  3  Indane                          Concentration Rank  1

  R.T.   EstConc           Area       Relative to ISTD         R.T.
---------------------------------------------------------------------
 17.09   84.48 ug/kg     9956230    1,4-Dichlorobenzene-d4(IS)  16.89

 Hit# of  5    Tentative ID             MW  MolForm       CAS#       Qual
---------------------------------------------------------------------
 1 Indane                              118 C9H10         000496-11-7 93
 2 Indane                              118 C9H10         000496-11-7 87
 3 Benzene, 1-ethenyl-2-methyl-        118 C9H10         000611-15-4 81
 4 Tetracyclo[3.3.1.0(2,8).0(4,6)]-non 118 C9H10         1000191-13-7 74
 5 Benzene, 2-propenyl-                118 C9H10         000300-57-2 74
```

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Library : C:\DATABASE\NIST98.L

****
Peak Number 4 Indene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.51	5.82 ug/kg	686366	1,4-Dichlorobenzene-d4(IS)	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	76
2	Indene	116	C9H8	000095-13-6	76
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	76
4	Indene	116	C9H8	000095-13-6	76
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	68

****
Peak Number 5 Indan, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	5.28 ug/kg	622770	1,4-Dichlorobenzene-d4(IS)	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	94
2	Indan, 1-methyl-	132	C10H12	000767-58-8	87
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	83
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	80
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	72

****
Peak Number 6 2-Propenal, 3-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	6.31 ug/kg	743873	1,4-Dichlorobenzene-d4(IS)	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	93
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
4	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91
5	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	90

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Library : C:\DATABASE\NIST98.L

****
Peak Number 7 Benzofuran, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	8.38 ug/kg	987257	1,4-Dichlorobenzene-d4(IS)	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
2	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	90
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	90
4	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	86
5	Benzene, (2-propynyloxy)-	132	C9H8O	013610-02-1	83

****
Peak Number 8 Indan, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	9.71 ug/kg	1144090	1,4-Dichlorobenzene-d4(IS)	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	91
2	Indan, 1-methyl-	132	C10H12	000767-58-8	91
3	Indan, 1-methyl-	132	C10H12	000767-58-8	90
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	90
5	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87

****
Peak Number 9 Indan, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	16.75 ug/kg	1974180	1,4-Dichlorobenzene-d4(IS)	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	97
2	Indan, 1-methyl-	132	C10H12	000767-58-8	91
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	91
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	91
5	Indan, 1-methyl-	132	C10H12	000767-58-8	90

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Library : C:\DATABASE\NIST98.L

****

Peak Number 10 Benzo[c]thiophene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.74	15.14 ug/kg	1784530	1,4-Dichlorobenzene-d4(IS)	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]thiophene	134	C8H6S	000270-82-6	95
2	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	91
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	91
4	Benzo[b]thiophene	134	C8H6S	000095-15-8	90
5	Benzo[b]thiophene	134	C8H6S	000095-15-8	90

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062713\2FV020.D Vial: 20
Acq On : 28 Jun 2013 00:17 Operator: kat
Sample : a303499-22 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

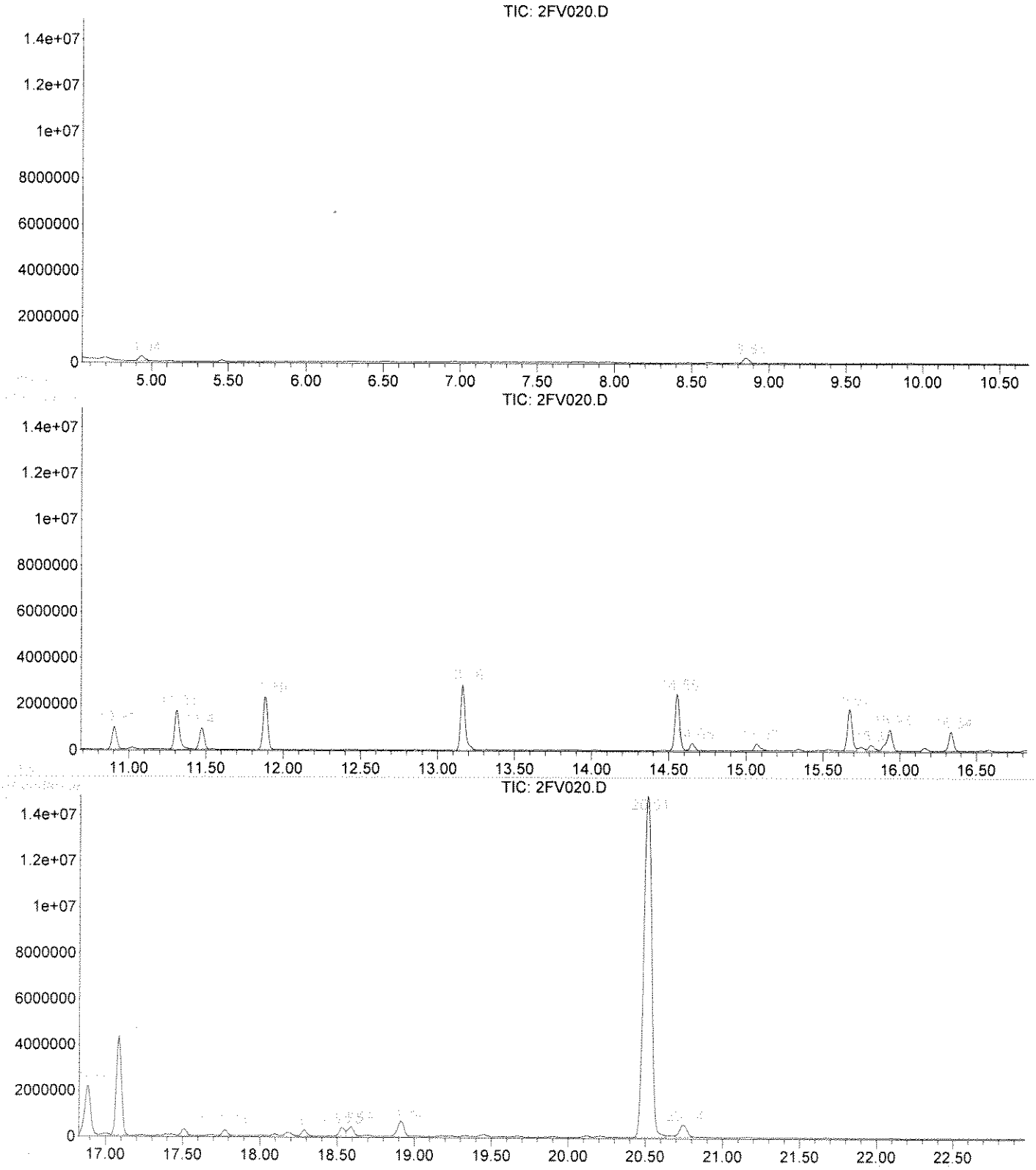
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.937	49	56	65	rBV	230418	634261	1.19%	0.563%
2	8.854	603	610	621	rVB	222004	610848	1.14%	0.542%
3	10.905	890	900	910	rBV2	989799	2127890	3.98%	1.890%
4	11.308	949	957	972	rBV	1670784	3856480	7.21%	3.425%
5	11.471	974	980	988	rBV	922246	1929122	3.61%	1.713%
6	11.888	1029	1039	1048	rBV	2281116	4632286	8.66%	4.114%
7	13.161	1211	1219	1233	rBV	2847909	6013407	11.24%	5.340%
8	14.554	1408	1416	1425	rBV	2444498	5240502	9.80%	4.654%
9	14.653	1425	1430	1439	rVB	322830	657867	1.23%	0.584%
10	15.071	1483	1489	1502	rBV2	283313	749060	1.40%	0.665%
11	15.672	1568	1574	1581	rBV	1802699	3904801	7.30%	3.468%
12	15.813	1589	1594	1601	rVV3	240930	675437	1.26%	0.600%
13	15.933	1601	1611	1624	rVB2	921964	2460293	4.60%	2.185%
14	16.336	1658	1668	1676	rVV	823283	1827330	3.42%	1.623%
15	16.888	1730	1746	1755	rBV2	2150347	5892725	11.02%	5.233%
16	17.086	1766	1774	1784	rVB	4319585	9956226	18.61%	8.842%
17	17.510	1827	1834	1841	rVB3	280811	686366	1.28%	0.610%
18	17.779	1865	1872	1883	rVB	255534	622770	1.16%	0.553%
19	18.288	1937	1944	1954	rVB	284223	743873	1.39%	0.661%
20	18.529	1970	1978	1982	rBV3	370583	987257	1.85%	0.877%
21	18.592	1982	1987	1995	rVV2	421416	1144093	2.14%	1.016%
22	18.918	2022	2033	2042	rBV3	664662	1974184	3.69%	1.753%
23	20.509	2246	2258	2276	rBV	14804622	53495589	100.00%	47.506%
24	20.742	2284	2291	2303	rVB	524383	1784530	3.34%	1.585%

Sum of corrected areas: 112607197

2FV020.D S1306004.M Fri Jun 28 10:06:22 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062713\2FV020.D
Operator : kat
Acquired : 28 Jun 2013 00:17 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-22
Misc Info :
Vial Number: 20
Quant File :S1306004.RES (RTE Integrator)



2FV020.D S1306004.M Fri Jun 28 10:06:23 2013

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\062713\2FV001.D
Tune Time : 27 Jun 2013 13:17

Daily Calibration File : C:\HPCHEM\1\DATA\060313\2F3007.D

						1241590	1720460	1501040	
						749187			
File	Sample	Surrogate Recovery %				Internal Standard Responses			
2FV002.D	8260 cvs	103	105	108	108	1428004	2001940	1755406	
				973815					
2FV003.D	3f27024-	102	103	104	93	1470467	2057135	1931432	
				885026					
2FV004.D	3f27024-	101	102	103	105	1445900	2021849	1727474	
				902538					
2FV006.D	3f27024-	109	110	109	110	1378524	1921966	1633411	
				803711					
2FV007.D	a303499-	104	105	101	102	1446043	2055468	1718236	
				885679					
2FV008.D	a303499-	105	102	105	109	1389766	1962629	1644635	
				838577					
2FV009.D	a303499-	104	106	103	103	1435826	2034106	1718011	
				879082					
2FV010.D	a303499-	98	101	101	101	1353886	1919972	1635121	
				855762					
2FV011.D	a303499-	103	104	103	102	1396010	1969980	1661111	
				862123					
2FV012.D	a303499-	98	100	101	101	1426510	2011238	1706799	
				895529					
2FV013.D	a303499-	105	105	104	99	1382958	1959202	1665294	
				857006					
2FV014.D	a303499-	99	99	98	92	1452300	2051667	1756856	
				860545					
2FV015.D	a303499-	98	99	96	87	1347780	1878184	1594407	
				776955					
2FV016.D	a303499-	102	105	103	105	1379398	1956594	1645239	
				847184					
2FV017.D	a303499-	100	102	98	96	1360164	1954100	1640533	
				827335					
2FV018.D	a303499-	109	111	105	101	1289083	1832861	1535520	
				777227					
2FV019.D	a303499-	104	106	104	99	1305659	1839859	1581220	
				800544					
2FV020.D	a303499-	89	86	92	87	1377580	1973757	1618413	
				817874					

t - fails 12hr time check * - fails criteria

Created: Fri Jun 28 10:07:57 2013 OVGCMS2

ANALYSIS SEQUENCE

AA24752

Instrument: OVGCMS2

Calibration ID: 1301050

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24752-TUN1	QC		1		A3E0210		
AA24752-CCV1	QC		2		A3F0251	A3F0071	
3F28011-BS1	QC		3			A3F0071	
3F28011-BSD1	QC		4			A3F0071	
3F28011-BLK1	QC		5			A3F0071	
A303588-05	8260B TCL SOM01.2 DOD	I	6			A3F0071	CH2M Hill, Inc. (CH025)
A303588-05	8260B TICs	I	6			A3F0071	CH2M Hill, Inc. (CH025)
A303588-05	8260B DOD	I	6			A3F0071	CH2M Hill, Inc. (CH025)
A303588-06	8260B DOD	A	7			A3F0071	CH2M Hill, Inc. (CH025)
A303588-06	8260B TICs	A	7			A3F0071	CH2M Hill, Inc. (CH025)
A303588-06	8260B TCL SOM01.2 DOD	A	7			A3F0071	CH2M Hill, Inc. (CH025)
A303557-01	8260B DOD	A	8			A3F0071	CH2M Hill, Inc. (CH025)
A303557-01	8260B TCL SOM01.2 DOD	A	8			A3F0071	CH2M Hill, Inc. (CH025)
A303557-02	8260B TCL SOM01.2 DOD	O	9			A3F0071	CH2M Hill, Inc. (CH025)
A303557-02	8260B TICs	O	9			A3F0071	CH2M Hill, Inc. (CH025)
A303557-02	8260B DOD	O	9			A3F0071	CH2M Hill, Inc. (CH025)
A303557-03	8260B TCL SOM01.2 DOD	N	10			A3F0071	CH2M Hill, Inc. (CH025)
A303557-03	8260B DOD	N	10			A3F0071	CH2M Hill, Inc. (CH025)
A303557-03	8260B TICs	N	10			A3F0071	CH2M Hill, Inc. (CH025)
A303557-04	8260B DOD	O	11			A3F0071	CH2M Hill, Inc. (CH025)
A303557-04	8260B TICs	O	11			A3F0071	CH2M Hill, Inc. (CH025)
A303557-04	8260B TCL SOM01.2 DOD	O	11			A3F0071	CH2M Hill, Inc. (CH025)
A303557-05	8260B TCL SOM01.2 DOD	O	12			A3F0071	CH2M Hill, Inc. (CH025)
A303557-05	8260B TICs	O	12			A3F0071	CH2M Hill, Inc. (CH025)
A303557-05	8260B DOD	O	12			A3F0071	CH2M Hill, Inc. (CH025)
A303499-01	8260B TCL SOM01.2 DOD	A	13			A3F0071	CH2M Hill, Inc. (CH025)
A303499-01	8260B DOD	A	13			A3F0071	CH2M Hill, Inc. (CH025)
A303499-08	8260B TICs	C	14			A3F0071	CH2M Hill, Inc. (CH025)
A303499-08	8260B TCL SOM01.2 DOD	C	14			A3F0071	CH2M Hill, Inc. (CH025)
A303499-08	8260B DOD	C	14			A3F0071	CH2M Hill, Inc. (CH025)
A303499-13	8260B TCL SOM01.2 DOD	E	15			A3F0071	CH2M Hill, Inc. (CH025)
A303499-13	8260B DOD	E	15			A3F0071	CH2M Hill, Inc. (CH025)
A303499-13	8260B TICs	E	15			A3F0071	CH2M Hill, Inc. (CH025)

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

AA24752

Instrument: OVGCMS2

Calibration ID: 1301050

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
A303499-16	8260B TCL SOM01.2 DOD	C	16			A3F0071	CH2M Hill, Inc. (CH025)
A303499-16	8260B DOD	C	16			A3F0071	CH2M Hill, Inc. (CH025)
A303499-16	8260B TICs	C	16			A3F0071	CH2M Hill, Inc. (CH025)
3F28011-BLK2	QC		17			A3F0071	
A303466-01	TCLP 8260B DOD	C	18			A3F0071	CH2M Hill, Inc. (CH025)
A303466-02	TCLP 8260B DOD	C	19			A3F0071	CH2M Hill, Inc. (CH025)
A303466-03	TCLP 8260B DOD	H	20			A3F0071	CH2M Hill, Inc. (CH025)
A303466-04	TCLP 8260B DOD	H	21			A3F0071	CH2M Hill, Inc. (CH025)
3F28011-BLK3	QC		22			A3F0071	

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/28/2013 12:17:49PM

3F28011

ENCO Orlando

Analysis
8260B DOD [EPA 8260B]
8260B TCL SOM01.2 DOD [EPA 8260B]
8260B TICs [EPA 8260B]
TCLP 8260B DOD [EPA 8260B]

Surrogate Solution
___ A3C0381 8260 surr working

Prepared using: EPA 5030B_MS

Spiking Solution
A3E0489 8260 Acrolein 2 working
A3F0029 8260 mix full 2 working + TCL

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F28011-BLK1		Blank		QC							1		
3F28011-BLK2		Blank		QC							1		tclp blk 3f25037-blk1
3F28011-BLK3		Blank		QC							1		tclp blk 3f25033-blk1
3F28011-BS1		LCS		QC					A3F0029 A3E0489	2 2	1		
3F28011-BSD1		LCS Dup		QC					A3F0029 A3E0489	2 2	1		
A303466-01	D	TR-2ND-IDWS-062413 C 02[MS	16-Jul-13	TCLP 8260B DOD							1		
A303466-02	D	TR-5TH-IDWS-062413 C 02[MS	16-Jul-13	TCLP 8260B DOD							1		
A303466-03	D	TR-2ND-IDWL-062413 H 01[MS	16-Jul-13	TCLP 8260B DOD							1		
A303466-04	D	TR-5TH-IDWL-062413 H 01[MS	16-Jul-13	TCLP 8260B DOD							1		
A303499-01	D	TR-TB01-061913 A[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-01	D	TR-TB01-061913 A[MS]	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-08	D	TR-2ND-SB07-GW-0613 C[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-08	D	TR-2ND-SB07-GW-0613 C[MS]	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-08	D	TR-2ND-SB07-GW-0613 C[MS]	11-Jul-13	8260B TICs							1		
A303499-13	D	TR-2ND-SB06-GW-0613 E[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-13	D	TR-2ND-SB06-GW-0613 E[MS]	11-Jul-13	8260B DOD							1		Total Xylene only
A303499-13	D	TR-2ND-SB06-GW-0613 E[MS]	11-Jul-13	8260B TICs							1		
A303499-16	D	TR-2ND-SB04-GW-0613 C[MS]	11-Jul-13	8260B TICs							1		

PREPARATION BENCH SHEET

3F28011

ENCO Orlando

Printed: 6/28/2013 12:17:49PM

Prepared using: EPA 5030B_MS

Surrogate Solution
___ A3C0381 8260 surr working

Spiking Solution
A3E0489 8260 Acrolein 2 working
A3F0029 8260 mix full 2 working + TCL

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303499-16	D	TR-2ND-SB04-GW-0613 C[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		
A303499-16	D	TR-2ND-SB04-GW-0613 C[MS]	11-Jul-13	8260B DOD							1		Total Xylene only
A303557-01	D	TR-TB01-062013 A[MS40	12-Jul-13	8260B DOD							1		Total Xylene only
A303557-01	D	TR-TB01-062013 A[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		
A303557-02	D	TR-2ND-MW01-0613 O[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		
A303557-02	D	TR-2ND-MW01-0613 O[MS40	12-Jul-13	8260B DOD							1		Total Xylene only
A303557-02	D	TR-2ND-MW01-0613 O[MS40	12-Jul-13	8260B TICs							1		
A303557-03	D	TR-2ND-MW02-0613 N[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		
A303557-03	D	TR-2ND-MW02-0613 N[MS40	12-Jul-13	8260B TICs							1		
A303557-03	D	TR-2ND-MW02-0613 N[MS40	12-Jul-13	8260B DOD							1		Total Xylene only
A303557-04	D	TR-5TH-MW01-0613 O[MS40	12-Jul-13	8260B DOD							1		Total Xylene only
A303557-04	D	TR-5TH-MW01-0613 O[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		
A303557-04	D	TR-5TH-MW01-0613 O[MS40	12-Jul-13	8260B TICs							1		
A303557-05	D	TR-5TH-MW02-0613 O[MS40	12-Jul-13	8260B TICs							1		
A303557-05	D	TR-5TH-MW02-0613 O[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		
A303557-05	D	TR-5TH-MW02-0613 O[MS40	12-Jul-13	8260B DOD							1		Total Xylene only
A303588-05	D	TR-EB01-062113 I[MS40]	15-Jul-13	8260B TCL SOM01.2 DOD							1		
A303588-05	D	TR-EB01-062113 I[MS40]	15-Jul-13	8260B DOD							1		Total Xylene only
A303588-05	D	TR-EB01-062113 I[MS40]	15-Jul-13	8260B TICs							1		

PREPARATION BENCH SHEET

Printed: 6/28/2013 12:17:49PM

3F28011

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution
___ A3C0381 8260 surr working

Spiking Solution
A3E0489 8260 Acrolein 2 working
A3F0029 8260 mix full 2 working + TCL

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303588-06	D	TR-TB01-062113 A[MS40	15-Jul-13	8260B TCL SOM01.2 DOD							1		
A303588-06	D	TR-TB01-062113 A[MS40	15-Jul-13	8260B DOD							1		Total Xylene only
A303588-06	D	TR-TB01-062113 A[MS40	15-Jul-13	8260B TICs							1		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

Inst. 2 dod

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture Lot#

Equipment Used

Sonicator _____ Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA
Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____
Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____
Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____
Balance _____ Daily calibration complete? [ ] Yes [ ] No [ ] NA
Other

Samples Prepared By _____ Date _____ Samples Prepared By _____ Date _____ Samples Prepared By _____ Date _____

VOLATILES GC/MS LOGBOOK

Volatiles

EPA Method 624, SW-846 Method 8260

SW-846 5030B, SW-846 5035

Tune Start Date/Time:	6-28-13 15:09	Surrogate ID:	A3E0581	8260 Mix :	A3F0007/1 1906/28/13
Tune End Date/Time:	6.29.13 03:09	Internal ID:	A3E00070/71	8260 Add:	~~A3E0190/1~~ A3E0196/1
Preventive Maintenance:	Aug Rule	LCS Acrolein 2°:	A3E0189/1	8260 Ac/Ac:	A3E0190/1
Method:	8260 DOD	LCS 8260 2°:	A3F0029V2	8260 Gases:	A3F0005/1
Workgroup:	3F28011 MZ4 TB	Other Standard:	A3E0210/2 BFB	Instrument #:	1, 2, 3, or 4 CVS: ABF025

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
2hw001	15:09	BFB 50NG	1ul/5ml	1	NA	Na	KT	AA 24TB -2ul	✓
2hw002	15:41	8260 CVS 50ug/L	5ml	2	NA	Na	KT	AA 24TB -10ul	✓
2hw003	16:15	3F28011-BS1	5ml	3	NA	Na	KT	LCS	✓
2hw004	16:49	3F28011-MSD1	5ml	4	NA	Na	KT	LCSDup	✓
2hw005	17:22	3F28011-Blk1	5ml	5	NA	Na	KT	Blk	✓
2hw006	11:55	3F28011-Blk1	5ml	6	NA	Na	KT	Blk	✓
2hw007	18:27	A3D0HG588-05	5ml	7	✓	Na	NP	HCS ebrk	✓
2hw008	18:59	A3D3588-06	5ml	8	✓	Na	NP	HCS TB	✓
2hw009	19:31	A3D3557-01	5ml	9	✓	Na	NP	TB	✓
2hw010	20:04	A3D3557-02	5ml	10	✓	Na	NP	HCS	✓ 5x RPD
2hw011	20:36	A3D3557-03	5ml	11	✓	Na	NP	HCS	✓
2hw012	21:08	A3D3557-04	5ml	12	✓	Na	NP	HCS	✓
2hw013	21:41	A3D3557-05	5ml	13	✓	Na	NP	HCS	~~5x~~ NPd 2/13 10x
2hw014	22:14	A3D3499-01	5ml	14	✓	Na	NP	TB	FIX
2hw015	22:46	A3D3499-08	5ml	15	✓	Na	NP	HCS	FIX
2hw016	23:18	A3D3499-13	5ml	16	✓	Na	NP	HCS	FIX
2hw017	23:50	A3D3499-16	5ml	17	✓	Na	NP	HCS	FIX
2hw018	00:23	~~A3D3528~~ 11 BK2	50ul/5ml	18	Tap	Na	NP	Tap DOD Blk 100X	FIX 3F25057-Blk1
2hw019	00:55	A3D3466-01	50ul/5ml	19	Tap	Na	NP	100X	FIX
2hw020	01:27	A3D3466-02	50ul/5ml	20	Tap	Na	NP	100X	FIX

DCM for all for SVK

VOLATILES GC/MS LOGBOOK
Volatiles
EPA Method 624, SW-846 Method 8260
SW-846 5030B, SW-846 5035

Tune Start Date/Time:
Tune End Date/Time:
Preventive Maintenance:
Method:
Workgroup:

Surrogate ID:
Internal ID:
LCS Acrolein 2°:
LCS 8260 2°:
Other Standard:

8260 Mix :
~~8260 Add:~~
8260 Ac/Ac:
8260 Gases:
Instrument #: 1, 2, 3, or 4

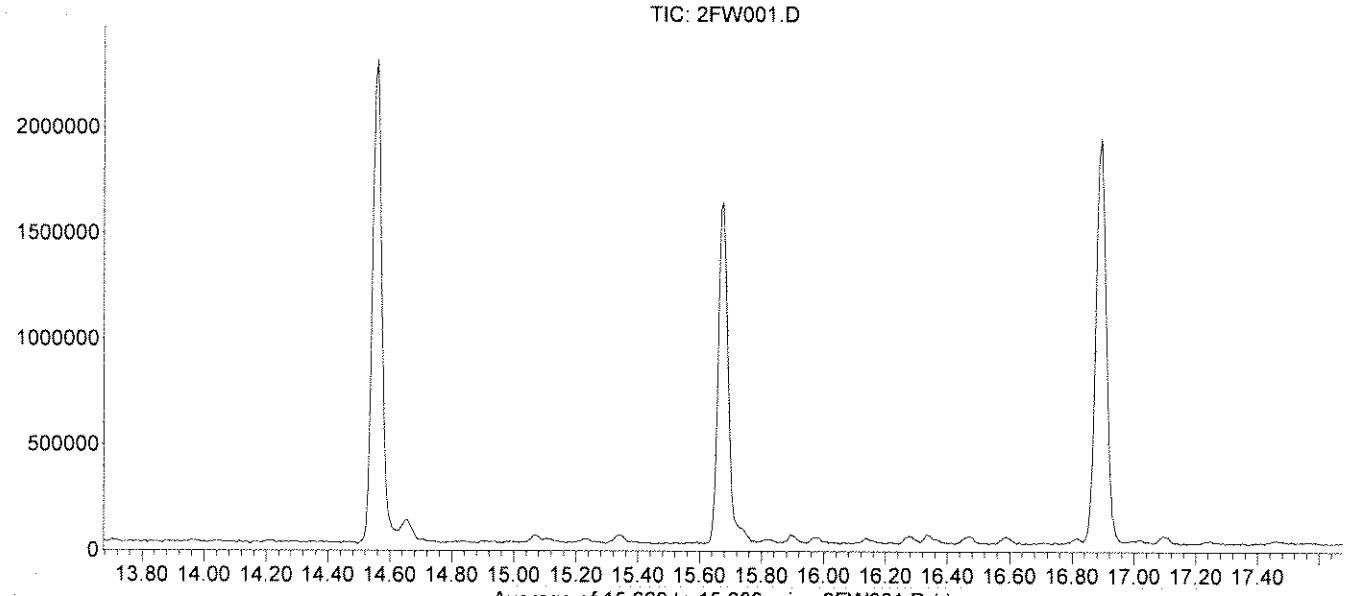
See PG 27

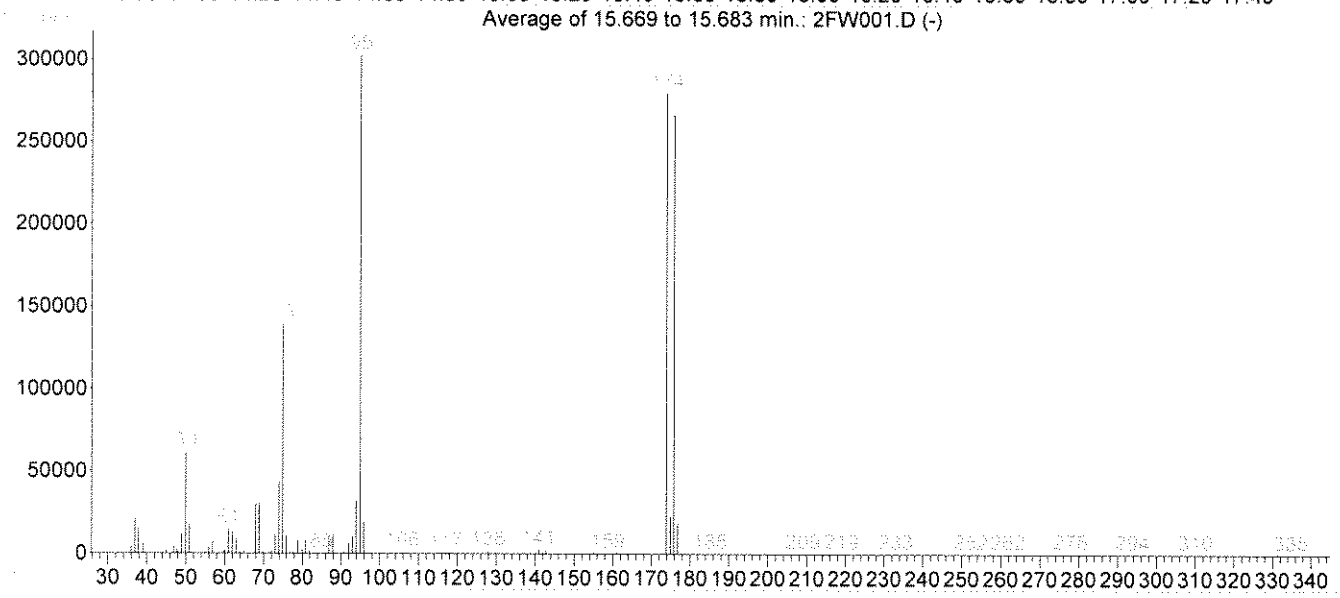
Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
2fw021	02:00	A303466-03	Sm1	21	Tkp	LA	VT	Tkp 8260 RXP WOX	✓
2fw022	02:32	A303466-04	Sm1	22	Tkp	LA	VT	WOX	✓
2fw023	03:05	BF2811-Blk3	50ml/5ml	23	Tkp	NA	VT	3525033-Blk1 WOX	✓

VP 6/30/13

BFB

Data File : C:\HPCHEM\1\DATA\062813\2FW001.D Vial: 1
Acq On : 28 Jun 2013 15:09 Operator: kat
Sample : bfb 50 ng Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050





AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1565

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	60971	PASS
75	95	30	60	45.9	138840	PASS
95	95	100	100	100.0	302483	PASS
96	95	5	9	6.6	19821	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.4	279509	PASS
175	174	5	9	8.2	22813	PASS
176	174	95	101	95.2	266112	PASS
177	176	5	9	6.9	18253	PASS

KT 06.28.13.

2FW001.D W1301050.M Fri Jun 28 16:15:14 2013

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration

KG 06.28.13

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	101	0.00
2		Dichlorodifluoromethane	0.850	0.786	7.5	94	0.00
3	**	Chloromethane	1.068	0.860	19.5	89	0.02
4	*	Vinyl Chloride	1.060	0.876	17.4	90	0.02
5		Bromomethane	0.442	0.361	18.3	89	0.02
6		Chloroethane	0.376	0.348	7.4	99	0.00
7		Trichlorofluoromethane	0.804	0.787	2.1	101	0.00
8		Trichlorotrifluoroethane	0.380	0.424	-11.6	116	0.00
9		acrolein	0.060	0.054#	10.0	95	0.00
10		Acetone	0.209	0.182	12.9	93	0.00
11	*m	1,1-Dichloroethene	0.294	0.347	-18.0	132	0.00
12		3-Chloropropene	0.389	0.319	18.0	89	0.00
13		Acetonitrile	0.082	0.069#	15.9	88	0.00
14		Iodomethane	0.722	0.731	-1.2	106	0.00
15		Carbon disulfide	1.615	1.462	9.5	96	0.00
16		Methylene Chloride	0.563	0.541	3.9	110	0.00
17		Methyl tert-butyl ether	1.072	1.166	-8.8	130	0.00
18		Acrylonitrile	0.177	0.144	18.6	83	0.00
19		T-1,2-Dichloroethene	0.516	0.531	-2.9	112	0.00
20		Isopropyl Ether	1.910	2.046	-7.1	124	0.00
21		C-1,2-Dichloroethene	0.533	0.557	-4.5	114	0.00
22	**	1,1-Dichloroethane	0.977	0.965	1.2	111	0.00
23		Vinyl Acetate	1.826	1.849	-1.3	104	0.00
24		Chloroprene	1.046	0.841	19.6	85	0.00
25		2-Butanone	0.054	0.047#	13.0	86	0.00
26		Propionitrile	0.070	0.060#	14.3	91	0.00
27		2,2-Dichloropropane	0.743	0.767	-3.2	120	0.00
28		Methacrylonitrile	0.194	0.160	17.5	91	0.00
29	*	Chloroform	0.857	0.908	-6.0	116	0.00
30	s	Dibromofluoromethane	0.634	0.529	16.6	106	0.00
31		Dibromofluoromethane	0.634	0.529	16.6	106	0.00
32		Bromochloromethane	0.281	0.276	1.8	108	0.00
33		1,1,1-Trichloroethane	0.656	0.699	-6.6	119	0.00
34		1,1-Dichloropropene	0.687	0.711	-3.5	114	0.00
35		Diethyl ether	0.335	0.380	-13.4	122	0.00
36		Methyl Acetate	0.073	0.077#	-5.5	109	0.00
37		Cyclohexane	1.007	0.946	6.1	100	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	88	0.00
39		Methyl Cyclohexane	0.530	0.566	-6.8	103	0.00
40		Carbon Tetrachloride	0.363	0.432	-19.0	113	0.00
41		1,2-Dichloroethane	0.423	0.484	-14.4	116	0.00
42	m	Benzene	1.107	1.325	-19.7	115	0.00
43		Isobutyl Alcohol	0.029	0.033#	-13.8	110	-0.02
44	s	1,2-Dichloroethane-d4	0.420	0.417	0.7	113	0.00
45		1,2-Dichloroethane-d4	0.420	0.417	0.7	113	0.00
46	m	Trichloroethene	0.333	0.374	-12.3	110	0.00
47	*	1,2-Dichloropropane	0.344	0.366	-6.4	103	0.00
48		Methyl Methacrylate	0.096	0.098#	-2.1	89	0.00
49		1,4-Dioxane	0.004	0.004#	0.0	102	0.00
50		Bromodichloromethane	0.416	0.477	-14.7	115	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.201	0.225	-11.9	111	0.00
52		4-Methyl-2-Pentanone	0.044	0.046#	-4.5	91	0.00
53		2-Chloroethyl vinyl ether	0.006	0.006#	0.0	100	0.00
54		2-Hexanone	0.309	0.265	14.2	79	0.00
55		C-1,3-Dichloropropene	0.558	0.637	-14.2	113	0.00
56	s	D8-Toluene	1.216	1.289	-6.0	115	0.00
57		D8-Toluene	1.216	1.289	-6.0	115	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	89	0.00
59	m*	Toluene	0.853	0.986	-15.6	116	0.00
60		Ethyl Methacrylate	0.513	0.491	4.3	85	0.00
61		T-1,3-Dichloropropene	0.523	0.592	-13.2	116	0.00
62		1,1,2-Trichloroethane	0.290	0.323	-11.4	113	0.00
63		1,3-Dichloropropane	0.534	0.620	-16.1	118	0.00
64		Tetrachloroethene	0.283	0.339	-19.8	118	0.00
65		Dibromochloromethane	0.402	0.424	-5.5	111	0.00
66		1,2-Dibromoethane	0.330	0.372	-12.7	113	0.00
67	**m	Chlorobenzene	0.989	1.083	-9.5	111	0.00
68		1,1,1,2-Tetrachloroethane	0.366	0.409	-11.7	115	0.00
69	*	Ethylbenzene	0.480	0.533	-11.0	110	0.00
70		m-xylene & p-xylene	0.593	0.672	-13.3	110	0.00
71		O-Xylene	0.623	0.689	-10.6	112	0.00
72	**	Bromoform	0.242	0.282	-16.5	117	0.00
73		Styrene	1.046	1.110	-6.1	106	0.00
74		Isopropylbenzene	1.546	1.714	-10.9	110	0.00
75		1,2,3-Trichloropropane	0.466	0.510	-9.4	107	0.00
76	**	1,1,2,2-Tetrachloroethane	0.371	0.439	-18.3	122	0.00
77	s	Bromofluorobenzene	0.573	0.602	-5.1	117	0.00
78		Bromofluorobenzene	0.573	0.602	-5.1	117	0.00
79		T-1,4-dichloro-2-butene	0.144	0.126	12.5	82	0.00
80		N-Propylbenzene	1.837	2.102	-14.4	113	0.00
81		Pentachloroethane	0.293	0.288	1.7	91	0.00
82	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	101	0.00
83		Bromobenzene	0.873	0.897	-2.7	118	0.00
84		1,3,5-Trimethylbenzene	2.574	2.558	0.6	113	0.00
85		2-Chlorotoluene	2.397	2.417	-0.8	116	0.00
86		4-Chlorotoluene	2.419	2.412	0.3	115	0.00
87		1,2,4-Trimethylbenzene	2.509	2.466	1.7	111	0.00
88		s-Butylbenzene	3.409	3.338	2.1	107	0.00
89		tert-Butylbenzene	2.283	2.258	1.1	110	0.00
90		p-Isopropyltoluene	2.590	2.457	5.1	106	0.00
91		1,3-Dichlorobenzene	1.649	1.651	-0.1	116	0.00
92		1,4-Dichlorobenzene	1.566	1.564	0.1	115	0.00
93		1,2-Dichlorobenzene	1.518	1.526	-0.5	115	0.00
94		N-Butylbenzene	2.529	2.380	5.9	106	0.00
95		DBCP	0.123	0.134	-8.9	129	0.00
96		Naphthalene	1.922	1.701	11.5	107	-0.01
97		1,2,4-Trichlorobenzene	0.918	0.887	3.4	113	-0.01
98		Hexachlorobutadiene	0.438	0.464	-5.9	125	-0.01
99		1,2,3-Trichlorobenzene	0.792	0.775	2.1	112	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:12 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

06/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1264261m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1743275	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1532765m	50.00	ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	818138	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	668844	41.73	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 83.46%			
44) 1,2-Dichloroethane-d4	11.48	65	726936	49.60	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 99.20%			
56) D8-Toluene	13.16	98	2246257	53.00	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 106.00%			
77) Bromofluorobenzene	15.67	95	923448	52.58	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 105.16%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.83	85	993767	46.26	ug/L	93
3) Chloromethane	5.38	50	1087824	40.30	ug/L	99
4) Vinyl Chloride	5.61	62	1107486	41.31	ug/L	99
5) Bromomethane	6.41	94	456083	40.76	ug/L	98
6) Chloroethane	6.64	64	440198	46.24	ug/L	97
7) Trichlorofluoromethane	6.94	101	994723	48.95	ug/L	95
8) Trichlorotrifluoroethane	7.93	101	536420	55.86	ug/L	87
9) acrolein	8.44	56	681957	450.41	ug/L	99
10) Acetone	8.87	43	230667	43.61	ug/L	96
11) 1,1-Dichloroethene	7.90	96	439110	59.15	ug/L	92
12) 3-Chloropropene	8.63	76	403628	41.01	ug/L	63
13) Acetonitrile	9.51	41	876687	423.08	ug/L	95
14) Iodomethane	8.15	142	924637	50.64	ug/L	87
15) Carbon disulfide	7.98	76	1848511	45.27	ug/L	99
16) Methylene Chloride	8.78	84	684189	48.09	ug/L	88
17) Methyl tert-butyl ether	9.14	73	1474595	54.40	ug/L	93
18) Acrylonitrile	9.89	53	1818152	405.85	ug/L	99
19) T-1,2-Dichloroethene	9.02	96	671288	51.42	ug/L	94
20) Isopropyl Ether	9.60	45	2586921	53.56	ug/L #	90
21) C-1,2-Dichloroethene	10.44	96	703646	52.20	ug/L	96
22) 1,1-Dichloroethane	9.82	63	1220432	49.40	ug/L	99
23) Vinyl Acetate	10.05	43	2337765	50.62	ug/L	98
24) Chloroprene	9.78	53	1063788	40.20	ug/L	79
25) 2-Butanone	11.02	72	59666	43.51	ug/L	99
26) Propionitrile	11.36	54	756340	425.97	ug/L	100
27) 2,2-Dichloropropane	10.56	77	969426	51.57	ug/L	98
28) Methacrylonitrile	11.37	67	2027707	413.56	ug/L #	50
29) Chloroform	10.71	83	1148087	52.99	ug/L	95
31) Dibromofluoromethane	10.90	113	668844	41.73	ug/L	100
32) Bromochloromethane	10.66	128	348318	49.06	ug/L	82
33) 1,1,1-Trichloroethane	10.97	97	883664	53.31	ug/L #	96
34) 1,1-Dichloropropene	11.08	75	898931	51.72	ug/L	90
35) Diethyl ether	7.54	59	480864	56.71	ug/l	97
36) Methyl Acetate	9.00	74	96921	52.43	ug/l #	92
37) Cyclohexane	10.68	56	1195908	46.97	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:12 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	987542	53.41 ug/l #	82
40) Carbon Tetrachloride	10.90	117	752832	59.51 ug/L	97
41) 1,2-Dichloroethane	11.54	62	843176	57.20 ug/L	98
42) Benzene	11.34	78	2309263m	59.83 ug/L	68
43) Isobutyl Alcohol	11.38	43	1160984	1141.78 ug/L #	1
45) 1,2-Dichloroethane-d4	11.48	65	726936	49.60 ug/l	97
46) Trichloroethene	11.89	130	652024	56.19 ug/L	88
47) 1,2-Dichloropropane	12.40	63	637773	53.12 ug/L	85
48) Methyl Methacrylate	12.48	100	170132	50.89 ug/L #	1
49) 1,4-Dioxane	12.60	88	135764	1082.49 ug/L	90
50) Bromodichloromethane	12.43	83	832220	57.33 ug/L #	100
51) Dibromomethane	12.33	93	393096	56.07 ug/L #	77
52) 4-Methyl-2-Pentanone	13.49	100	79845	51.48 ug/L	95
53) 2-Chloroethyl vinyl ether	12.99	63	9846	51.16 ug/L	79
54) 2-Hexanone	14.19	43	462368	42.93 ug/L	95
55) C-1,3-Dichloropropene	12.99	75	1110464	57.09 ug/L	77
57) D8-Toluene	13.16	98	2246257	53.00 ug/L	100
59) Toluene	13.21	92	1511573	57.81 ug/L	99
60) Ethyl Methacrylate	13.59	69	753337	47.90 ug/L #	75
61) T-1,3-Dichloropropene	13.55	75	908143	56.68 ug/L	78
62) 1,1,2-Trichloroethane	13.70	97	494432	55.62 ug/L	97
63) 1,3-Dichloropropane	13.97	76	950141	58.01 ug/L	99
64) Tetrachloroethene	13.57	164	520157	59.97 ug/L	87
65) Dibromochloromethane	13.90	129	649762	52.77 ug/L	95
66) 1,2-Dibromoethane	14.15	107	570442	56.42 ug/L	96
67) Chlorobenzene	14.57	112	1659919	54.76 ug/L	90
68) 1,1,1,2-Tetrachloroethane	14.60	131	626329	55.86 ug/L	87
69) Ethylbenzene	14.54	106	816225	55.43 ug/L	100
70) m-xylene & p-xylene	14.65	106	2060346	113.32 ug/L	84
71) O-Xylene	15.07	106	1056689	55.31 ug/L	97
72) Bromoform	15.21	173	431477	58.15 ug/L	93
73) Styrene	15.11	104	1701351	53.04 ug/L	87
74) Isopropylbenzene	15.34	105	2626770	55.44 ug/L	99
75) 1,2,3-Trichloropropane	16.00	75	781316	54.67 ug/L	100
76) 1,1,2,2-Tetrachloroethane	15.80	83	673157	59.14 ug/L	96
78) Bromofluorobenzene	15.67	95	923448	52.58 ug/L #	69
79) T-1,4-dichloro-2-butene	15.99	53	193493	43.85 ug/L #	56
80) N-Propylbenzene	15.74	91	3222344	57.23 ug/L	96
81) Pentachloroethane	16.36	167	440803	49.15 ug/l	94
83) Bromobenzene	15.83	156	733555	51.36 ug/L	79
84) 1,3,5-Trimethylbenzene	15.90	105	2092861	49.68 ug/L	92
85) 2-Chlorotoluene	15.97	91	1977567	50.42 ug/L	97
86) 4-Chlorotoluene	16.14	91	1973134	49.85 ug/L	93
87) 1,2,4-Trimethylbenzene	16.34	105	2017208	49.14 ug/L	96
88) s-Butylbenzene	16.47	105	2731083	48.96 ug/L	92
89) tert-Butylbenzene	16.28	119	1847732	49.46 ug/L	96
90) p-Isopropyltoluene	16.59	119	2010002	47.43 ug/L	98
91) 1,3-Dichlorobenzene	16.82	146	1350883	50.06 ug/L	91
92) 1,4-Dichlorobenzene	16.92	146	1279411	49.94 ug/L	93
93) 1,2-Dichlorobenzene	17.47	146	1248629	50.28 ug/L	96
94) N-Butylbenzene	17.10	91	1947251	47.06 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:12 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.61	75	109571	54.53 ug/L	81
96) Naphthalene	20.51	128	1391278	44.23 ug/L	100
97) 1,2,4-Trichlorobenzene	19.79	180	725937	48.32 ug/L	89
98) Hexachlorobutadiene	19.63	225	379593	52.99 ug/L	98
99) 1,2,3-Trichlorobenzene	20.92	180	634180	48.95 ug/L	92

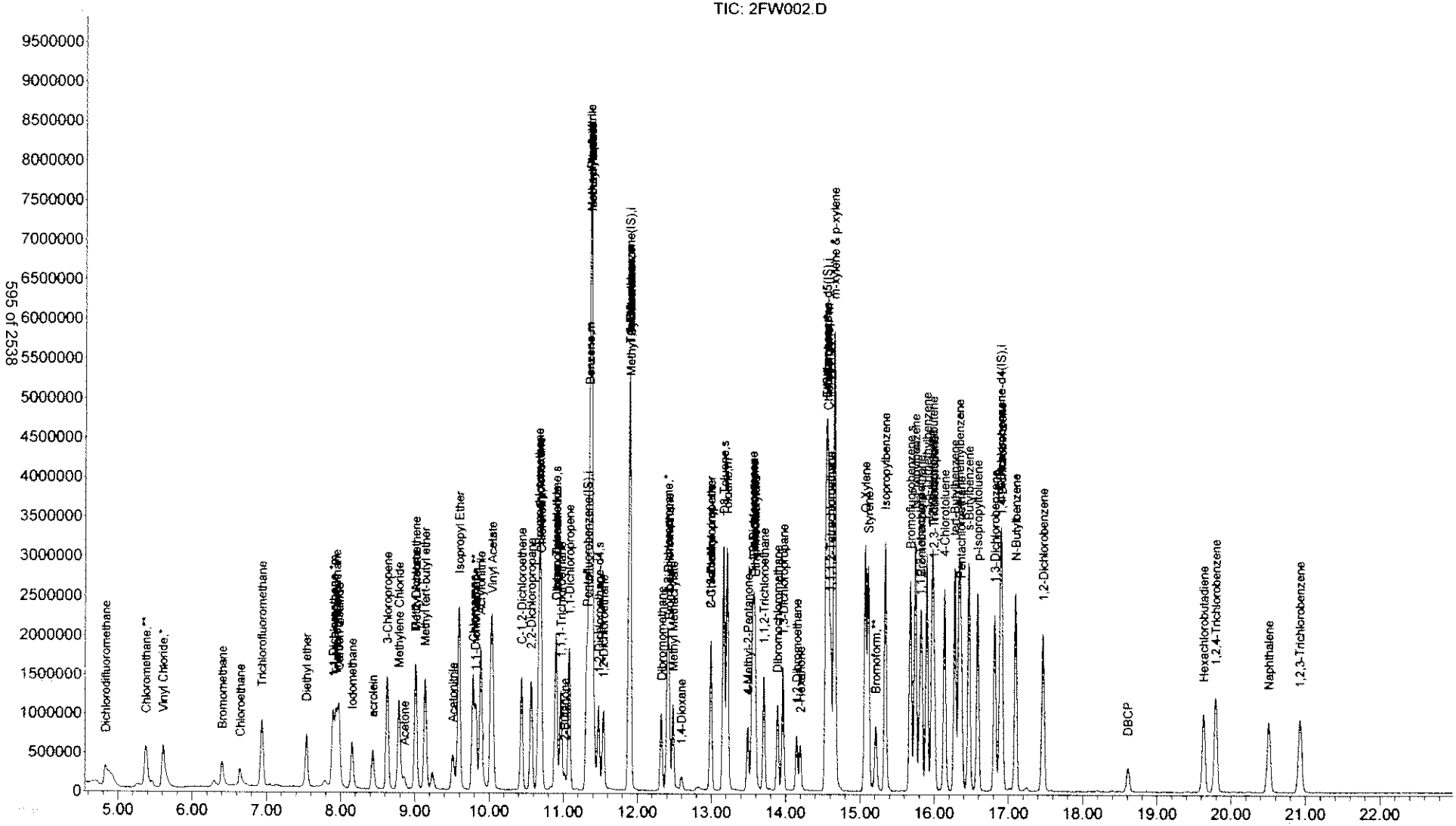
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:12 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Initial Calibration

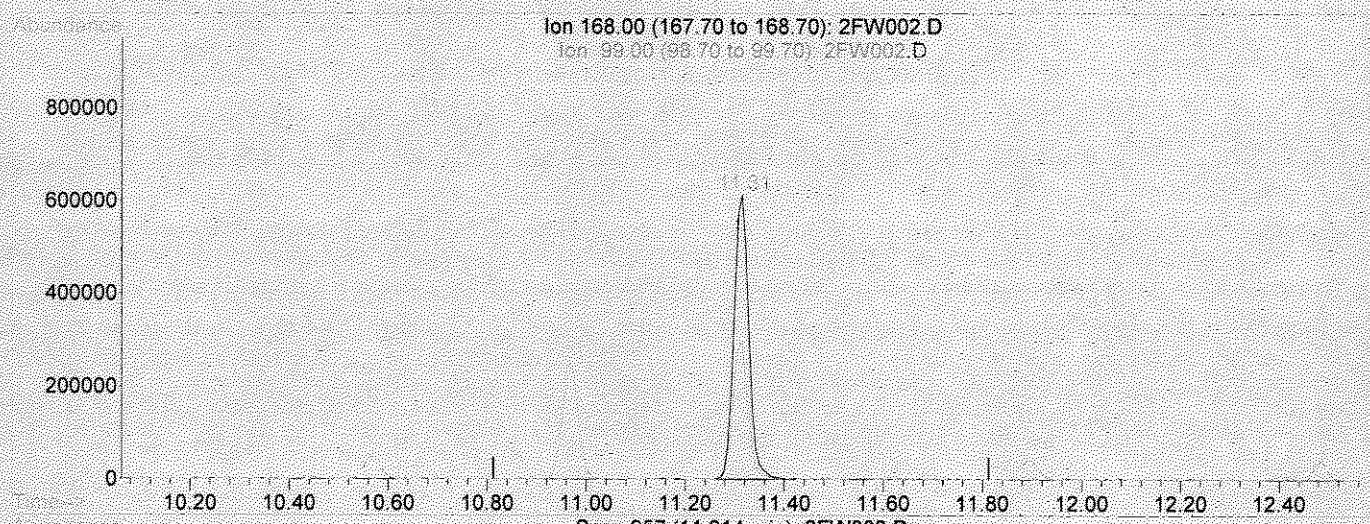
TIC: 2FW002.D

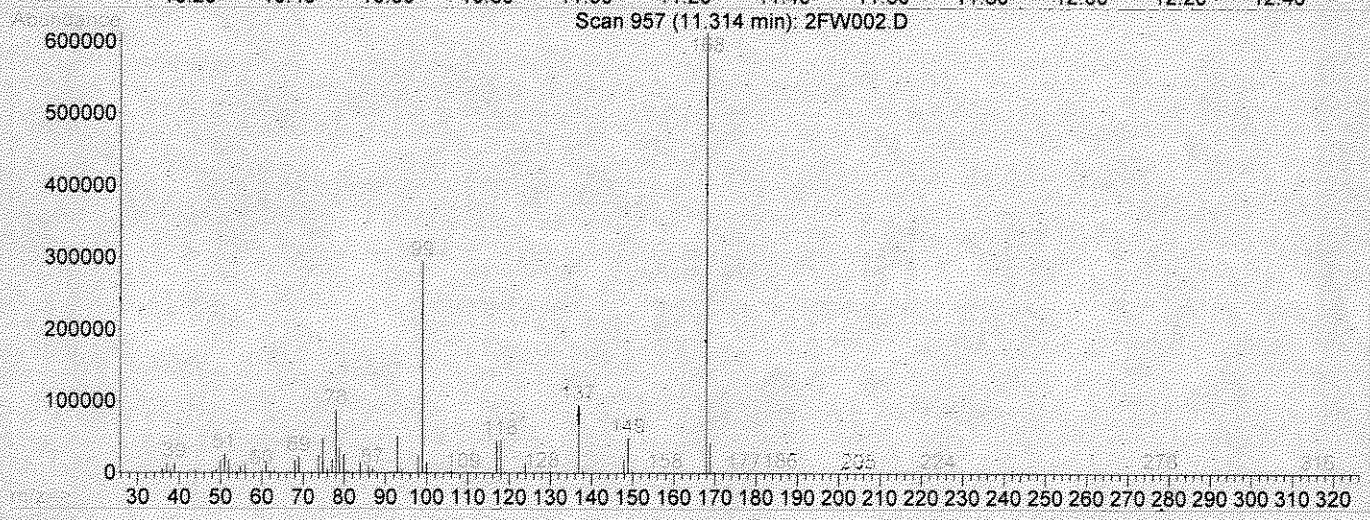


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration





TIC: 2FW002.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L

response 1265534

Ion	Exp%	Act%
168.00	100	100
99.00	68.70	49.49
169.00	6.50	7.23
0.00	0.00	0.00

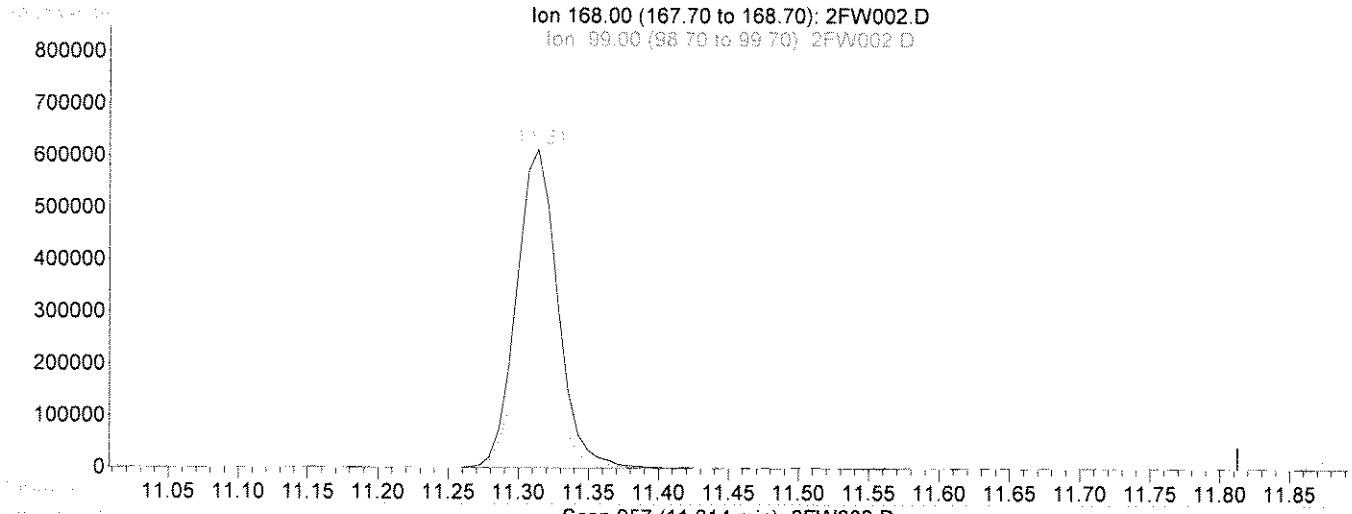
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 6/28/13
Review by/Date: MP 6/28/13

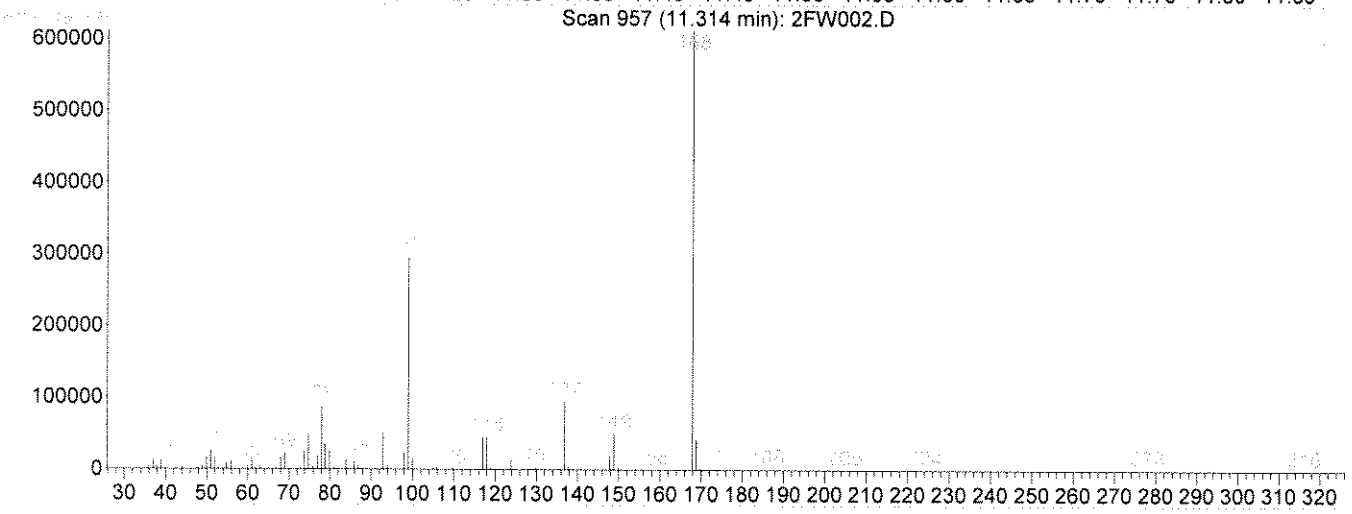
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D
Acq On : 28 Jun 2013 15:41
Sample : 8260 cvs 50 ug/kg
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 16:09 2013

Vial: 2
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration





TIC: 2FW002.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L m

response 1264261

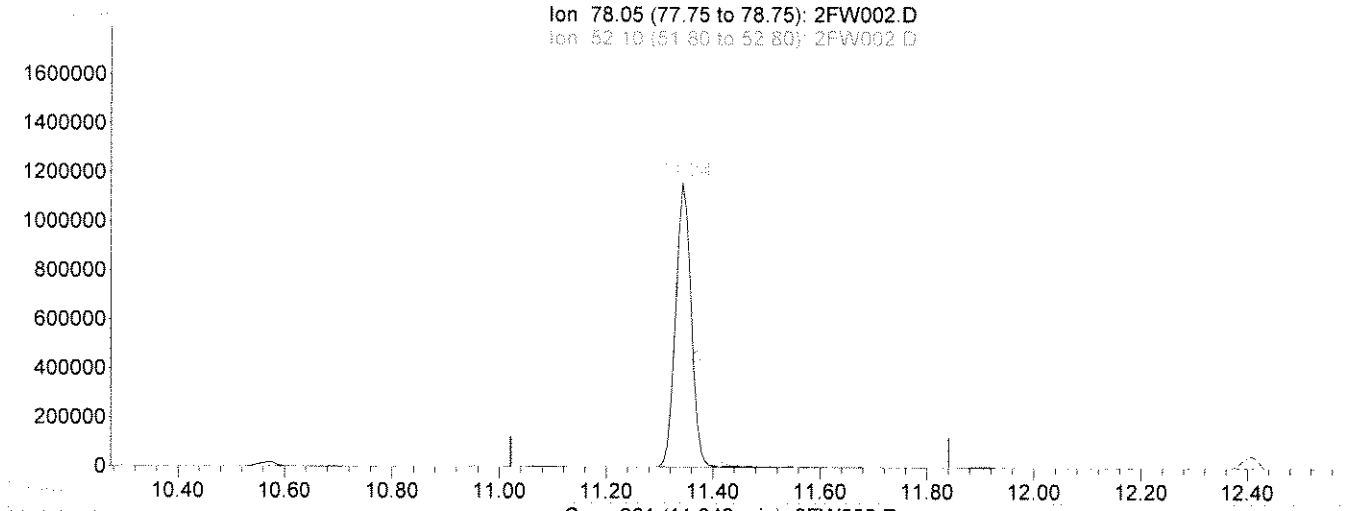
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	49.54
169.00	6.50	7.24
0.00	0.00	0.00

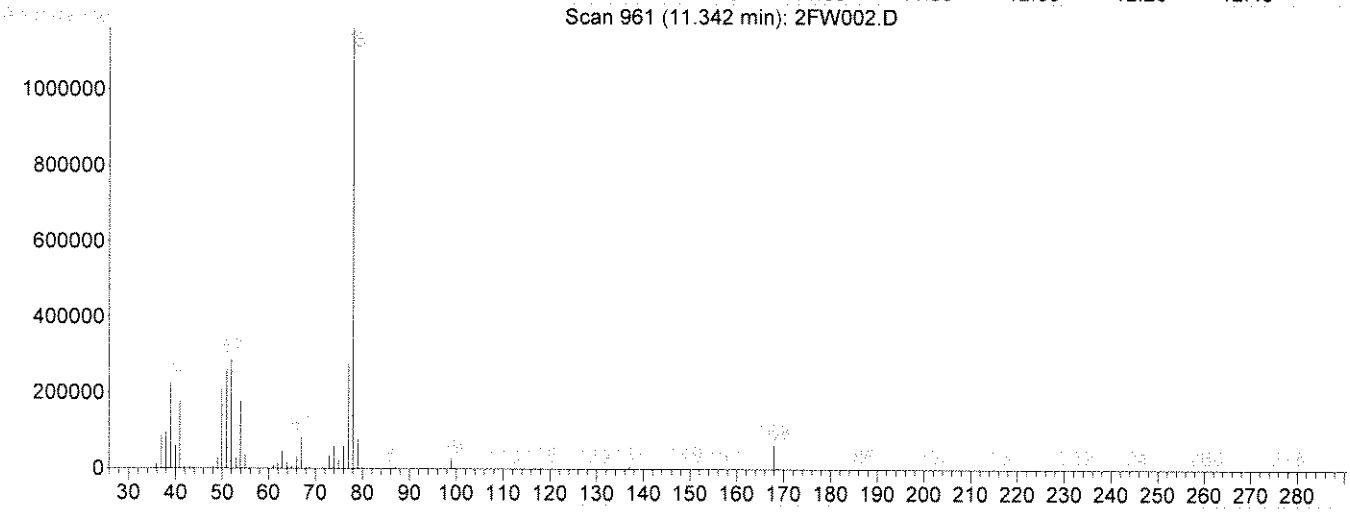
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date: 6/28/13
Review by/Date: NP 6/28/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:09 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration





TIC: 2FW002.D

(42) Benzene (m)

11.34min 60.63ug/L

response 2340181

Ion	Exp%	Act%
78.05	100	100
52.10	32.20	63.54#
77.05	24.40	24.26
0.00	0.00	0.00

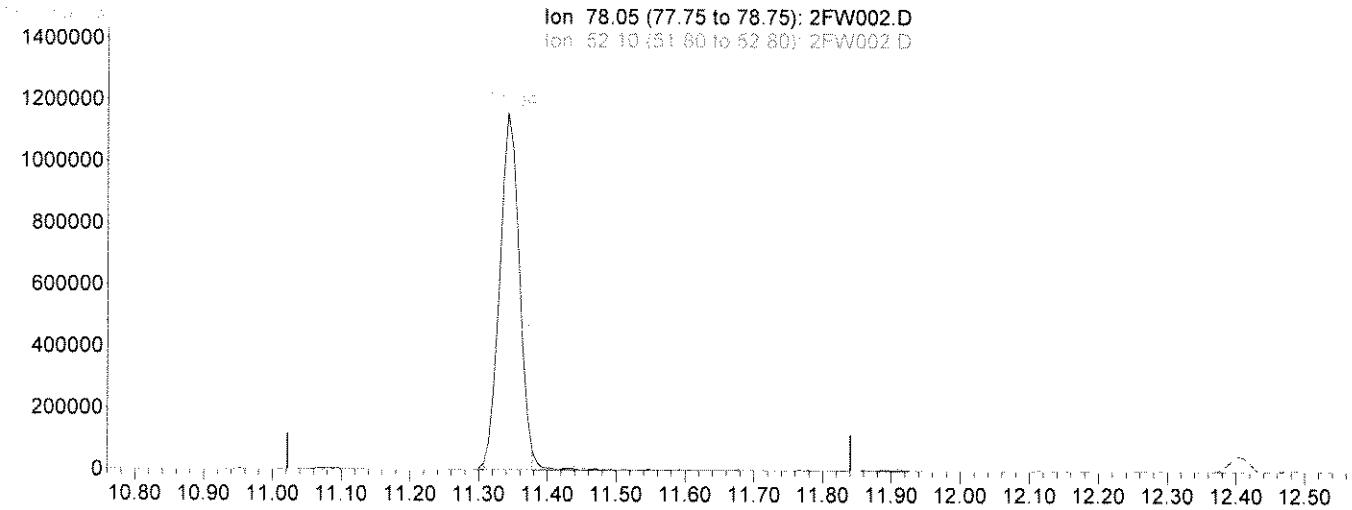
Select One:
[ ] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date VCT 6 28 13
Reviewed by/Date: NP 6/28/13

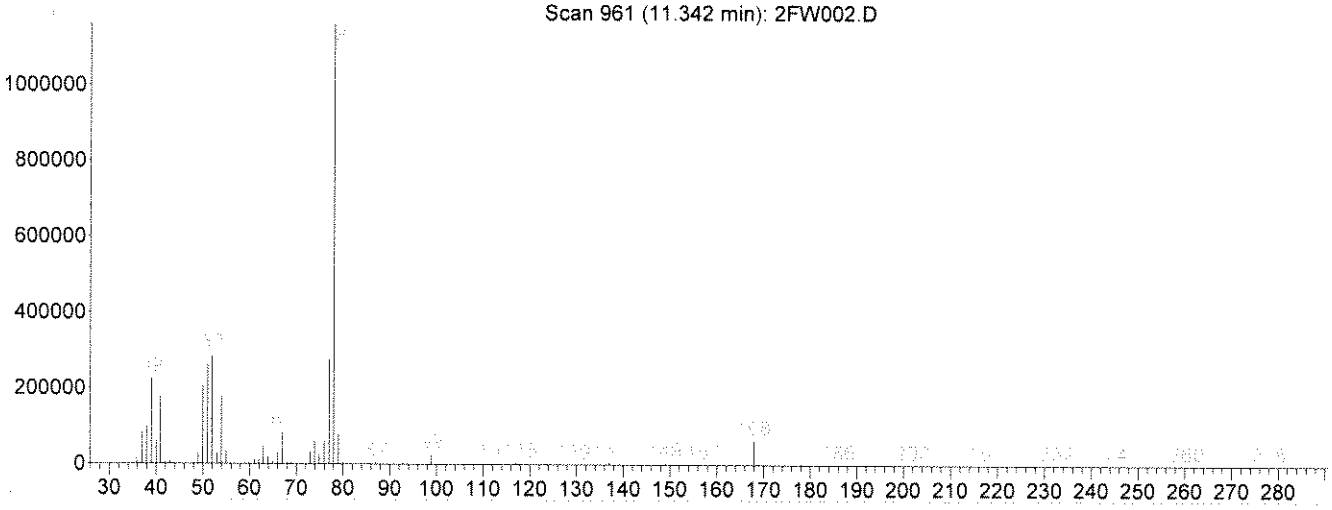
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D
Acq On : 28 Jun 2013 15:41
Sample : 8260 cvs 50 ug/kg
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 16:11 2013

Vial: 2
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration





TIC: 2FW002.D

(42) Benzene (m)

11.34min 59.83ug/L m

response 2309263

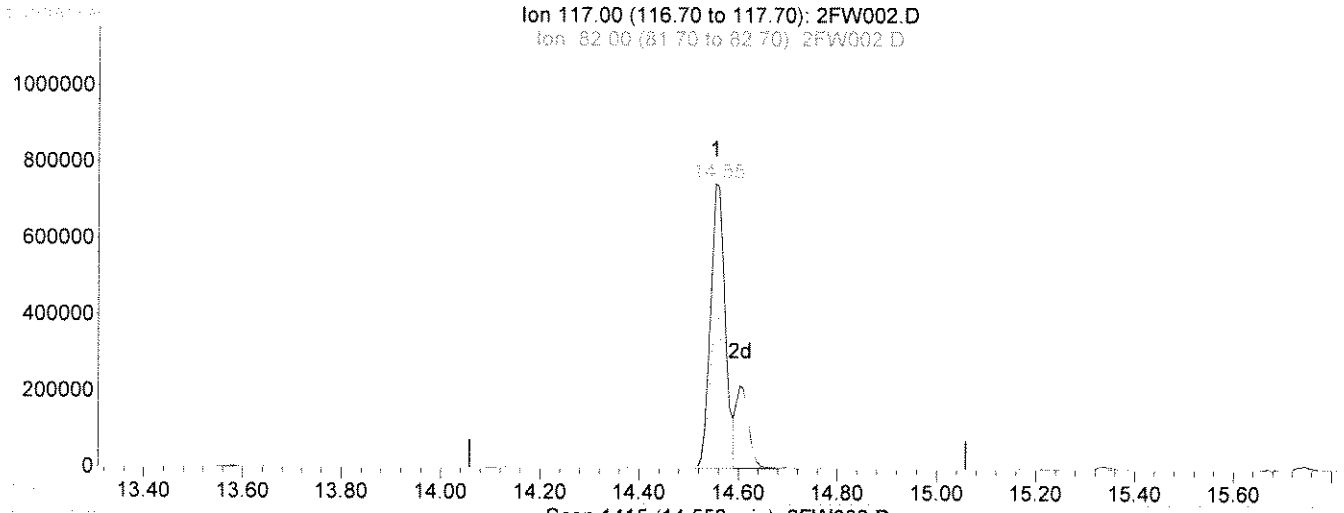
Ion	Exp%	Act%
78.05	100	100
52.10	32.20	64.39#
77.05	24.40	24.59
0.00	0.00	0.00

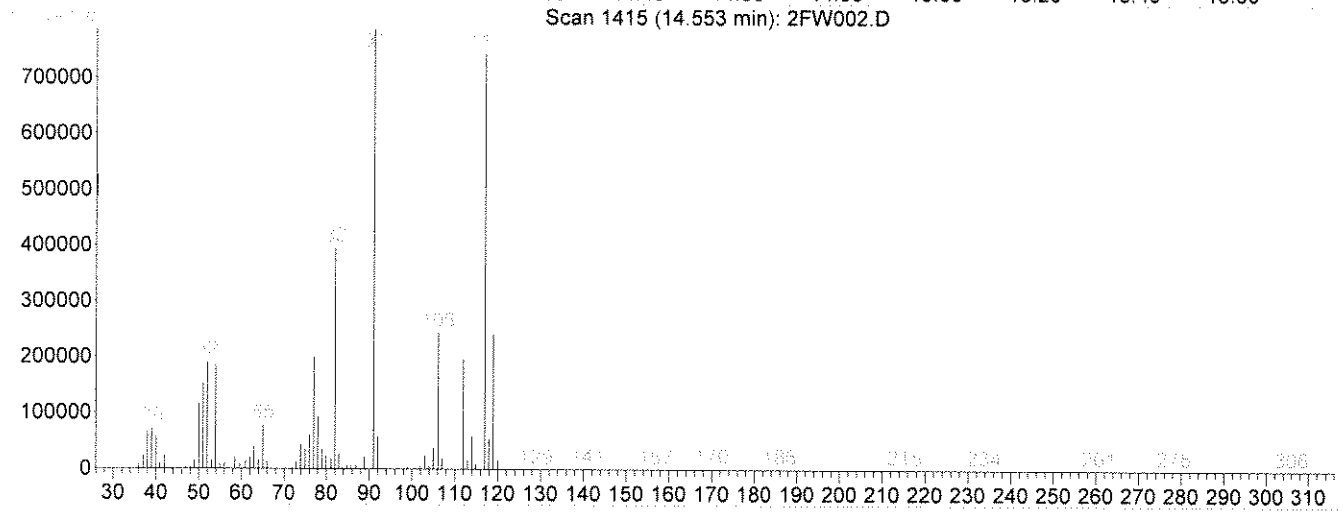
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 6/28/13
Review by/Date: 6/28/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration





TIC: 2FW002.D

(58) Chlorobenzene-d5(IS) (i)

14.55min 50.00ug/L

response 1520951

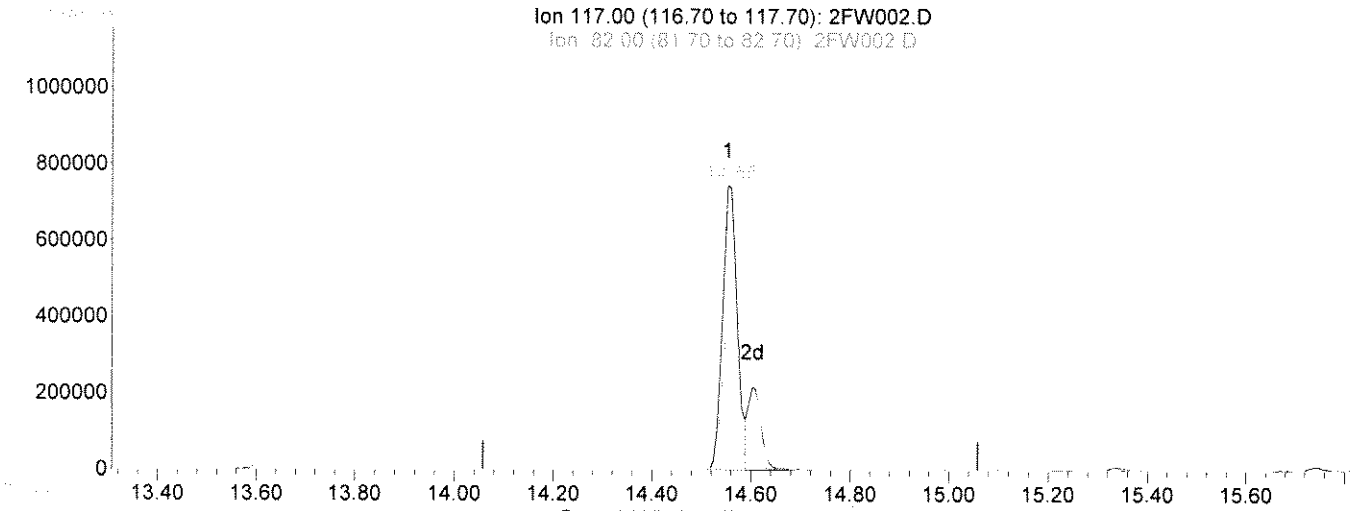
Ion	Exp%	Act%
117.00	100	100
82.00	60.00	54.36
119.00	32.80	31.97
0.00	0.00	0.00

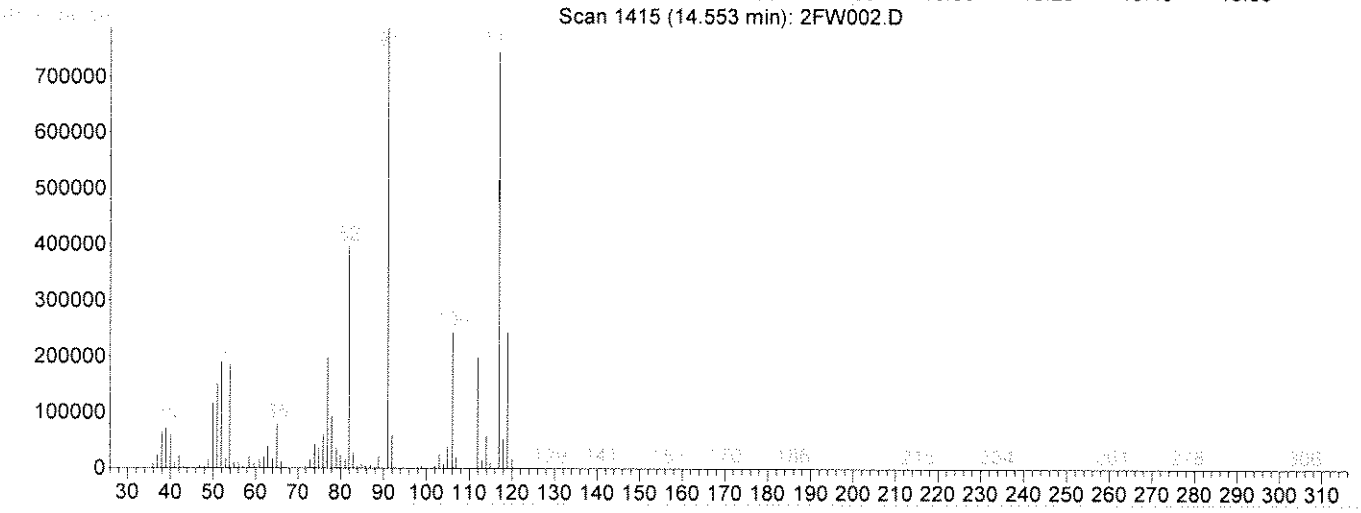
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LC 6/28/13
Review by/Date: NP 6/28/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW002.D Vial: 2
Acq On : 28 Jun 2013 15:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 16:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:08:09 2013
Response via : Multiple Level Calibration





TIC: 2FW002.D

(58) Chlorobenzene-d5(IS) (i)

14.55min 50.00ug/L m

response 1532765

Ion	Exp%	Act%
117.00	100	100
82.00	60.00	53.95
119.00	32.80	31.72
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Reviewed by/Date: LED 6/28/13
Verified by/Date: NP 6/28/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D
Acq On : 28 Jun 2013 16:15
Sample : 3f28011-bs1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 18:12 2013

Vial: 3
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NP 6/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1410053m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1907620	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1540725m	50.00	ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	750957	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	767496	42.94	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 85.88%			
44) 1,2-Dichloroethane-d4	11.48	65	672352	41.92	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 83.84%			
56) D8-Toluene	13.17	98	2172918	46.85	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 93.70%			
77) Bromofluorobenzene	15.68	95	832831	47.18	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 94.36%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.84	85	393903	16.44	ug/L	76
3) Chloromethane	5.38	50	418331	13.89	ug/L	99
4) Vinyl Chloride	5.61	62	386526	12.93	ug/L	96
5) Bromomethane	6.41	94	138868	11.13	ug/L	94
6) Chloroethane	6.68	64	182031	17.15	ug/L	93
7) Trichlorofluoromethane	6.98	101	359126	15.85	ug/L	97
8) Trichlorotrifluoroethane	7.95	101	215604	20.13	ug/L	82
9) acrolein	8.44	56	105706	62.60	ug/L	99
10) Acetone	8.86	43	171356	29.04	ug/L	91
11) 1,1-Dichloroethene	7.90	96	190139	22.96	ug/L	91
12) 3-Chloropropene	8.63	76	157183	14.32	ug/L	64
13) Acetonitrile	9.52	41	24640	10.66	ug/L	87
14) Iodomethane	8.17	142	349122	17.14	ug/L	91
15) Carbon disulfide	7.99	76	799954	17.57	ug/L	99
16) Methylene Chloride	8.79	84	277082	17.46	ug/L	89
17) Methyl tert-butyl ether	9.14	73	640622	21.19	ug/L	94
18) Acrylonitrile	9.89	53	87148	17.44	ug/L	83
19) T-1,2-Dichloroethene	9.02	96	271639	18.66	ug/L	91
20) Isopropyl Ether	9.59	45	1008506	18.72	ug/L #	90
21) C-1,2-Dichloroethene	10.44	96	261894	17.42	ug/L	96
22) 1,1-Dichloroethane	9.83	63	508948	18.47	ug/L	99
23) Vinyl Acetate	10.05	43	362915	7.05	ug/L	99
24) Chloroprene	9.79	53	470387	15.94	ug/L	81
25) 2-Butanone	11.02	72	48855	31.94	ug/L	86
26) Propionitrile	11.36	54	28892	14.59	ug/L	100
27) 2,2-Dichloropropane	10.57	77	405808	19.36	ug/L	99
28) Methacrylonitrile	11.38	67	86088	15.74	ug/L #	1
29) Chloroform	10.71	83	454180	18.79	ug/L	91
31) Dibromofluoromethane	10.91	113	767496	42.94	ug/L	100
32) Bromochloromethane	10.67	128	132810	16.77	ug/L	78
33) 1,1,1-Trichloroethane	10.97	97	360799	19.52	ug/L #	97
34) 1,1-Dichloropropene	11.08	75	358876	18.51	ug/L	92
35) Diethyl ether	7.54	59	175973	18.61	ug/l	96
36) Methyl Acetate	9.01	74	46397	22.50	ug/l	80
37) Cyclohexane	10.69	56	469486	16.53	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D
Acq On : 28 Jun 2013 16:15
Sample : 3f28011-bs1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 18:12 2013

Vial: 3
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	391998	19.37 ug/l #	85
40) Carbon Tetrachloride	10.90	117	311505	22.50 ug/L	97
41) 1,2-Dichloroethane	11.55	62	329331	20.42 ug/L	99
42) Benzene	11.35	78	963063	22.80 ug/L	91
43) Isobutyl Alcohol	11.38	43	252239	226.70 ug/L	78
45) 1,2-Dichloroethane-d4	11.48	65	672352	41.92 ug/l	94
46) Trichloroethene	11.89	130	261481	20.59 ug/L	94
47) 1,2-Dichloropropane	12.41	63	251661	19.16 ug/L	85
48) Methyl Methacrylate	12.49	100	60326	16.49 ug/L #	1
49) 1,4-Dioxane	12.61	88	3400	24.77 ug/L	89
50) Bromodichloromethane	12.43	83	319441	20.11 ug/L #	100
51) Dibromomethane	12.32	93	153601	20.02 ug/L	86
52) 4-Methyl-2-Pentanone	13.49	100	69405	40.89 ug/L	95
53) 2-Chloroethyl vinyl ether	12.78	63	1237	5.87 ug/L	66
54) 2-Hexanone	14.20	43	381578	32.38 ug/L	97
55) C-1,3-Dichloropropene	13.00	75	405190	19.04 ug/L	75
57) D8-Toluene	13.17	98	2172918	46.85 ug/L	99
59) Toluene	13.22	92	591156	22.49 ug/L	96
60) Ethyl Methacrylate	13.59	69	287995	18.22 ug/L #	81
61) T-1,3-Dichloropropene	13.55	75	364408	22.63 ug/L	75
62) 1,1,2-Trichloroethane	13.71	97	184253	20.62 ug/L	96
63) 1,3-Dichloropropane	13.97	76	346851	21.07 ug/L	95
64) Tetrachloroethene	13.57	164	224111	25.70 ug/L	85
65) Dibromochloromethane	13.89	129	244030	19.72 ug/L	96
66) 1,2-Dibromoethane	14.15	107	203039	19.98 ug/L	96
67) Chlorobenzene	14.57	112	632007	20.74 ug/L	88
68) 1,1,1,2-Tetrachloroethane	14.61	131	235965	20.94 ug/L	88
69) Ethylbenzene	14.54	106	313012	21.15 ug/L	95
70) m-xylene & p-xylene	14.66	106	801698	43.87 ug/L	86
71) O-Xylene	15.08	106	381735	19.88 ug/L	97
72) Bromoform	15.22	173	157446	21.11 ug/L	94
73) Styrene	15.11	104	658269	20.42 ug/L	88
74) Isopropylbenzene	15.34	105	983417	20.65 ug/L	99
75) 1,2,3-Trichloropropane	15.99	75	267384	18.61 ug/L	99
76) 1,1,2,2-Tetrachloroethane	15.80	83	225219	19.68 ug/L	98
78) Bromofluorobenzene	15.68	95	832831	47.18 ug/L #	78
79) T-1,4-dichloro-2-butene	15.99	53	62312	14.05 ug/L #	45
80) N-Propylbenzene	15.75	91	1183234	20.91 ug/L	95
81) Pentachloroethane	16.37	167	161420	17.91 ug/l	94
83) Bromobenzene	15.83	156	277119	21.14 ug/L	79
84) 1,3,5-Trimethylbenzene	15.90	105	771725	19.96 ug/L	90
85) 2-Chlorotoluene	15.97	91	696690	19.35 ug/L	98
86) 4-Chlorotoluene	16.14	91	721562	19.86 ug/L	96
87) 1,2,4-Trimethylbenzene	16.33	105	750103	19.91 ug/L	94
88) s-Butylbenzene	16.47	105	1003234	19.59 ug/L	93
89) tert-Butylbenzene	16.28	119	689446	20.11 ug/L	94
90) p-Isopropyltoluene	16.59	119	804607	20.69 ug/L	96
91) 1,3-Dichlorobenzene	16.82	146	470122	18.98 ug/L	90
92) 1,4-Dichlorobenzene	16.91	146	461740	19.64 ug/L	95
93) 1,2-Dichlorobenzene	17.47	146	434067	19.04 ug/L	95
94) N-Butylbenzene	17.10	91	732427	19.28 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D
Acq On : 28 Jun 2013 16:15
Sample : 3f28011-bs1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 18:12 2013

Vial: 3
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

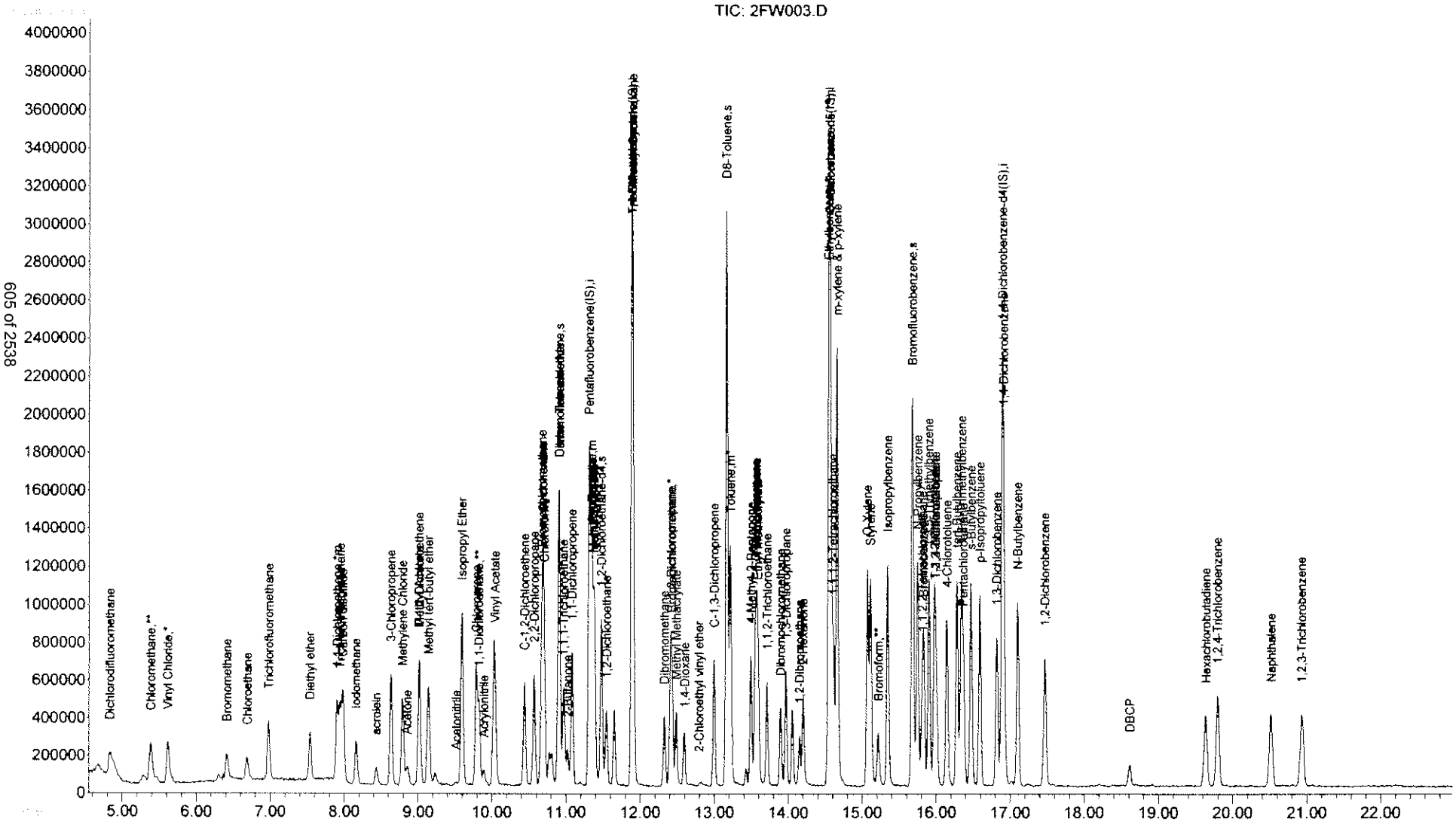
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.61	75	37445	20.30 ug/L	76
96) Naphthalene	20.51	128	600318	20.79 ug/L	100
97) 1,2,4-Trichlorobenzene	19.79	180	289078	20.96 ug/L	90
98) Hexachlorobutadiene	19.63	225	140230	21.33 ug/L	99
99) 1,2,3-Trichlorobenzene	20.92	180	260342	21.89 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D Vial: 3
Acq On : 28 Jun 2013 16:15 Operator: kat
Sample : 3f28011-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:12 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration

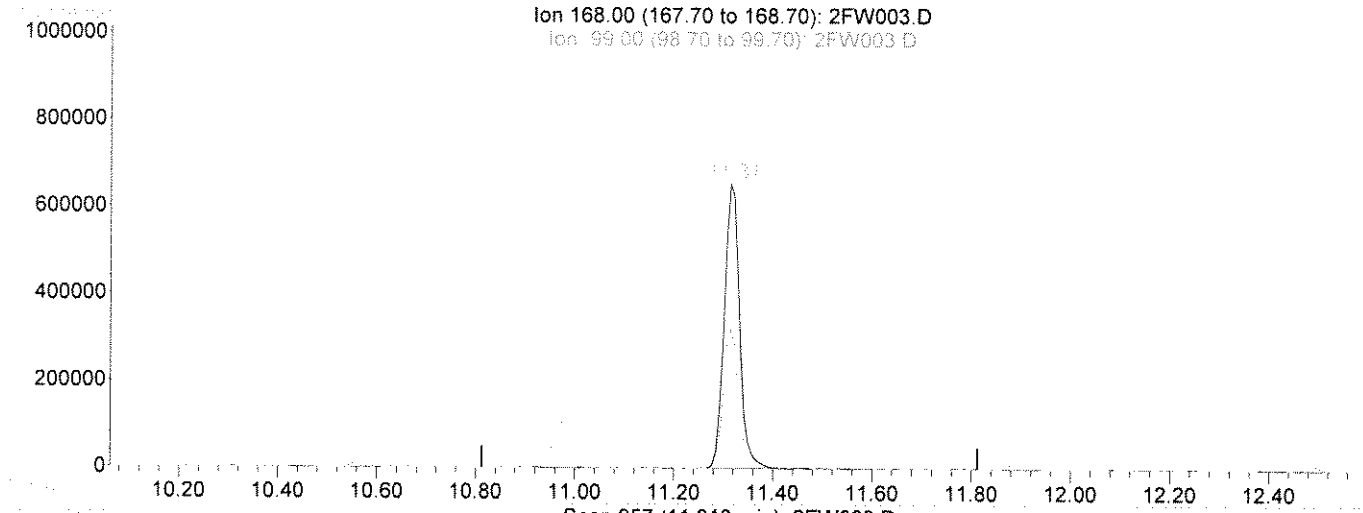


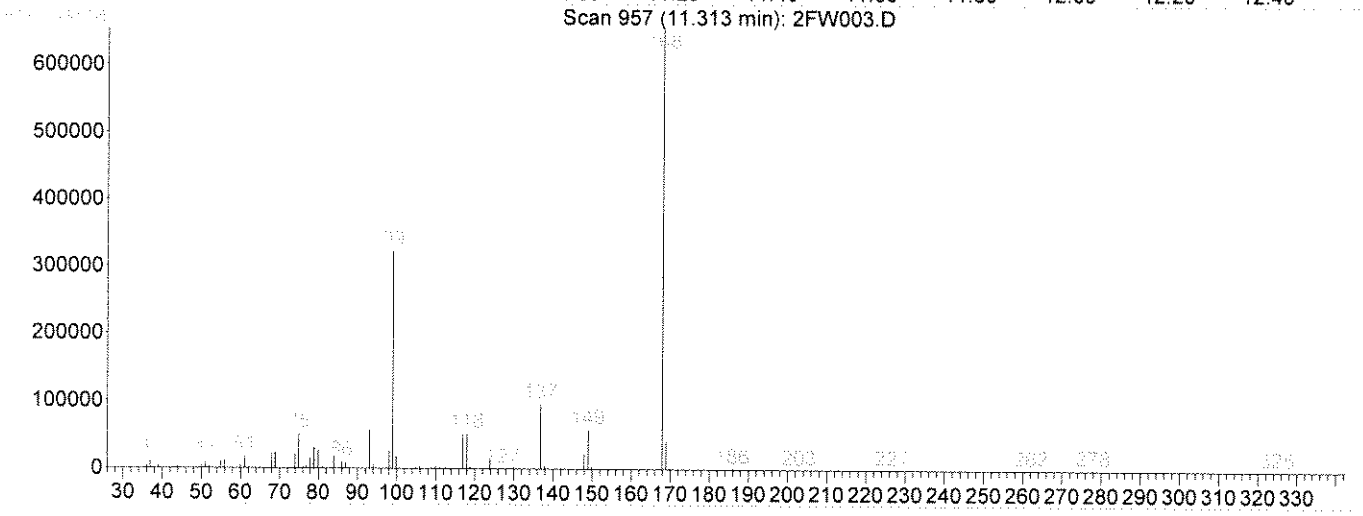
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D
Acq On : 28 Jun 2013 16:15
Sample : 3f28011-bs1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 18:08 2013

Vial: 3
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L

response 1406628

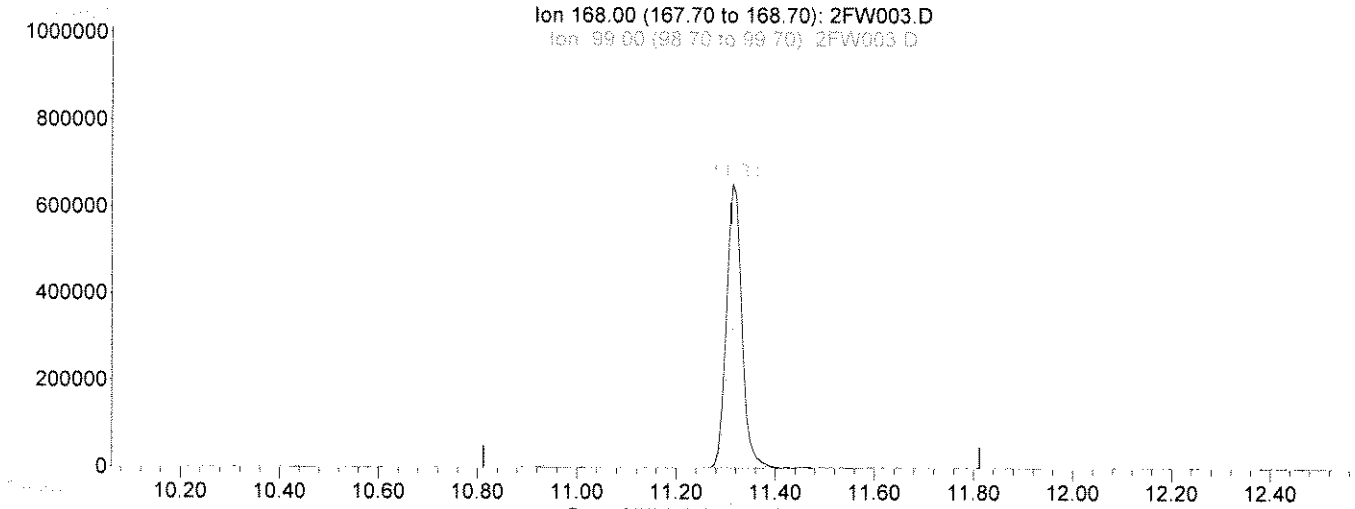
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	48.69
169.00	6.50	6.53
0.00	0.00	0.00

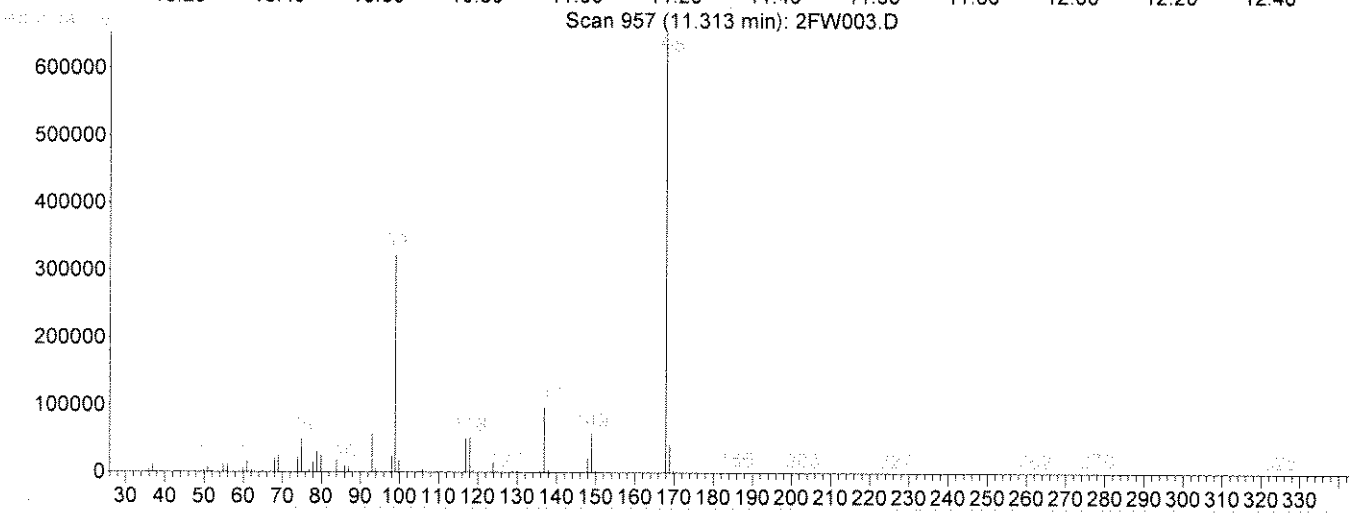
[ ] Line:
[ ] Original Integration [ ] Manual Integration
[ ] Incl reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date NP 6/28/13
Review by/Date: KT 07/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D Vial: 3
Acq On : 28 Jun 2013 16:15 Operator: kat
Sample : 3f28011-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L m

response 1410053

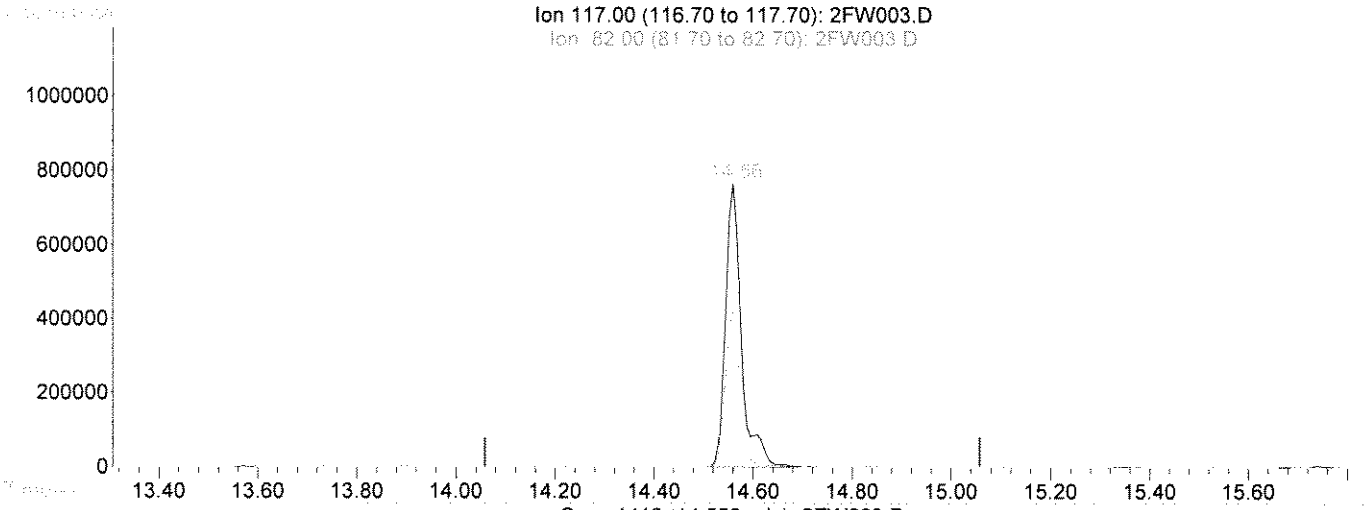
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	48.57
169.00	6.50	6.51
0.00	0.00	0.00

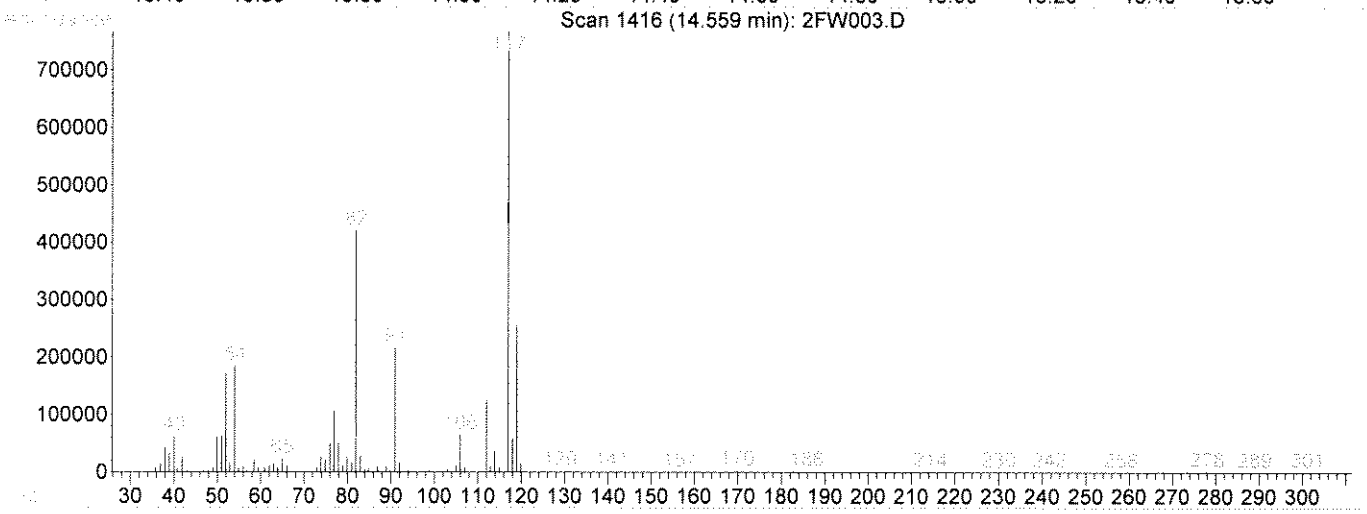
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date NP 6/28/13
Review by/Date: KD 7/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D Vial: 3
Acq On : 28 Jun 2013 16:15 Operator: kat
Sample : 3f28011-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:07 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW003.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/L

response 1700693

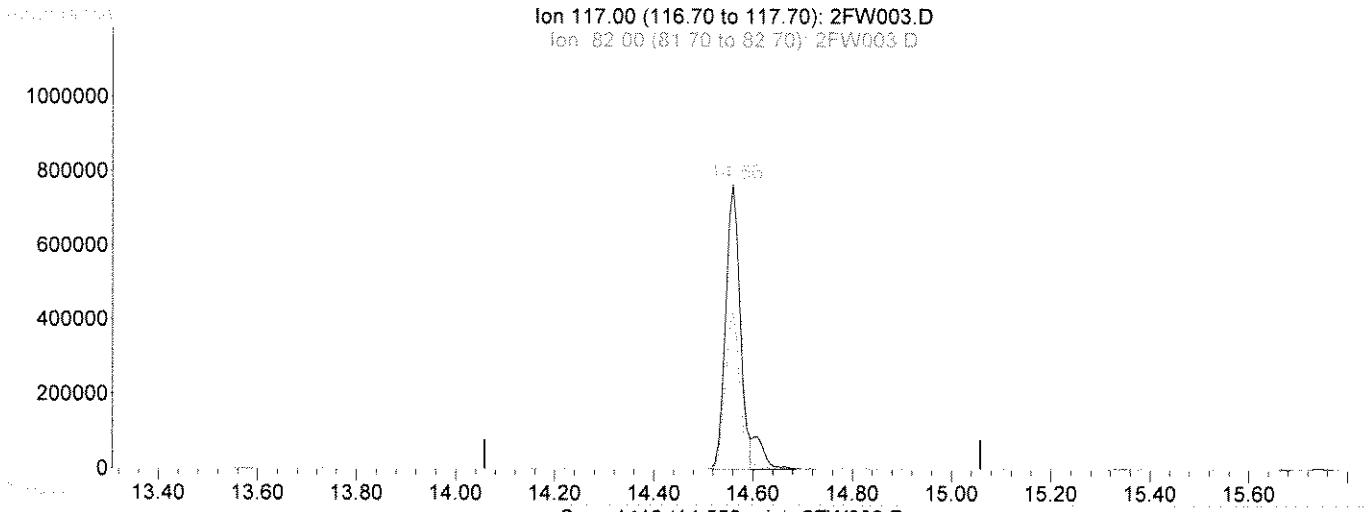
Ion	Exp%	Act%
117.00	100	100
82.00	60.00	50.60
119.00	32.80	29.72
0.00	0.00	0.00

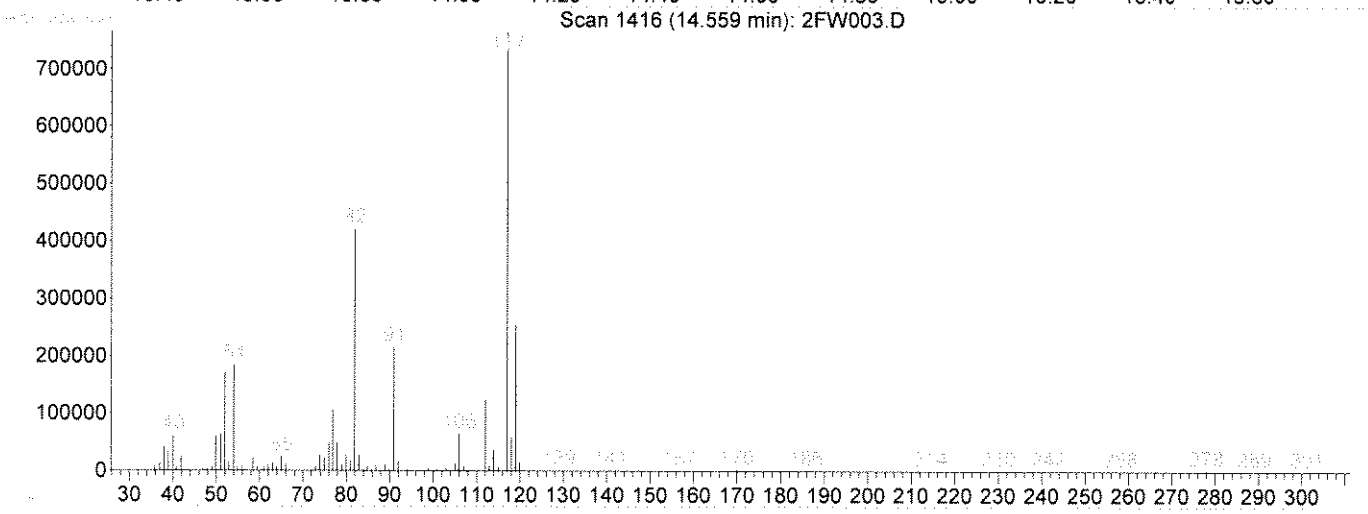
Select one:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date NP 6/28/13
Review by/Date: KJ 7/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW003.D Vial: 3
Acq On : 28 Jun 2013 16:15 Operator: kat
Sample : 3f28011-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW003.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/L m

response 1540725

Ion	Exp%	Act%
117.00	100	100
82.00	60.00	55.85
119.00	32.80	32.80
0.00	0.00	0.00

Select One:

[] Original Integration [✓] Manual Integration

Select reason for manual integration:

[] Poor integration (peak tailing, baseline selection)

[] Incorrect peak selection/Peak not found

[] Hump integration

[] Baseline drop for split peaks

[✓] IS ID reintegration

[] Other:

Review by/Date NP 6/28/13

Review by/Date: 6/28/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D
Acq On : 28 Jun 2013 16:49
Sample : 3f28011-bsd1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 18:40 2013

Vial: 4
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NP 6/28/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1309873m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1814101m	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1508065m	50.00	ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	756454m	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	705753	42.50	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 85.00%			
44) 1,2-Dichloroethane-d4	11.48	65	743501	48.75	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 97.50%			
56) D8-Toluene	13.17	98	2335506	52.95	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 105.90%			
77) Bromofluorobenzene	15.68	95	924310	53.49	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 106.98%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.83	85	405861	18.23	ug/L	94
3) Chloromethane	5.38	50	429908	15.37	ug/L	100
4) Vinyl Chloride	5.61	62	393092	14.15	ug/L	95
5) Bromomethane	6.41	94	161310	13.92	ug/L	96
6) Chloroethane	6.68	64	186969	18.96	ug/L	92
7) Trichlorofluoromethane	6.97	101	358324	17.02	ug/L	95
8) Trichlorotrifluoroethane	7.95	101	220482	22.16	ug/L	84
9) acrolein	8.43	56	127472	81.26	ug/L	94
10) Acetone	8.85	43	179436	32.74	ug/L	92
11) 1,1-Dichloroethene	7.90	96	174619	22.70	ug/L	92
12) 3-Chloropropene	8.63	76	174905	17.15	ug/L	69
13) Acetonitrile	9.52	41	27469	12.79	ug/L	74
14) Iodomethane	8.16	142	382074	20.20	ug/L	87
15) Carbon disulfide	7.98	76	805229	19.03	ug/L	100
16) Methylene Chloride	8.78	84	328347	22.27	ug/L	90
17) Methyl tert-butyl ether	9.14	73	649305	23.12	ug/L	93
18) Acrylonitrile	9.89	53	106272	22.90	ug/L	96
19) T-1,2-Dichloroethene	9.01	96	305283	22.57	ug/L	93
20) Isopropyl Ether	9.59	45	1311171	26.20	ug/L #	92
21) C-1,2-Dichloroethene	10.44	96	264635	18.95	ug/L	96
22) 1,1-Dichloroethane	9.82	63	609767	23.82	ug/L	99
23) Vinyl Acetate	10.05	43	492972	10.30	ug/L	99
24) Chloroprene	9.79	53	532823	19.44	ug/L	78
25) 2-Butanone	11.02	72	47716	33.58	ug/L	97
26) Propionitrile	11.36	54	33636	18.28	ug/L	100
27) 2,2-Dichloropropane	10.57	77	483611	24.83	ug/L	100
28) Methacrylonitrile	11.38	67	108222	21.30	ug/L #	1
29) Chloroform	10.70	83	447433	19.93	ug/L	93
31) Dibromofluoromethane	10.91	113	705753	42.50	ug/L	100
32) Bromochloromethane	10.67	128	128645	17.49	ug/L	82
33) 1,1,1-Trichloroethane	10.97	97	443427	25.82	ug/L #	95
34) 1,1-Dichloropropene	11.08	75	423178	23.50	ug/L	91
35) Diethyl ether	7.54	59	205590	23.40	ug/l	97
36) Methyl Acetate	9.01	74	44206	23.08	ug/l	78
37) Cyclohexane	10.68	56	503274	19.08	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D
Acq On : 28 Jun 2013 16:49
Sample : 3f28011-bsd1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 18:40 2013

Vial: 4
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	11.91	55	443192	23.03 ug/l #	82
40)	Carbon Tetrachloride	10.90	117	316193	24.02 ug/L	97
41)	1,2-Dichloroethane	11.55	62	340542	22.20 ug/L	98
42)	Benzene	11.35	78	869630	21.65 ug/L	91
43)	Isobutyl Alcohol	11.38	43	334095	315.74 ug/L	78
45)	1,2-Dichloroethane-d4	11.48	65	743501	48.75 ug/l	95
46)	Trichloroethene	11.89	130	259264	21.47 ug/L	90
47)	1,2-Dichloropropane	12.41	63	279476	22.37 ug/L	85
48)	Methyl Methacrylate	12.49	100	82745	23.79 ug/L #	1
49)	1,4-Dioxane	12.60	88	3085	23.64 ug/L #	10
50)	Bromodichloromethane	12.43	83	337965	22.37 ug/L	100
51)	Dibromomethane	12.32	93	151300	20.74 ug/L	82
52)	4-Methyl-2-Pentanone	13.50	100	66630	41.28 ug/L	93
53)	2-Chloroethyl vinyl ether	12.98	63	5715	28.54 ug/L	49
54)	2-Hexanone	14.20	43	394720	35.22 ug/L	97
55)	C-1,3-Dichloropropene	13.00	75	523059	25.84 ug/L	78
57)	D8-Toluene	13.17	98	2335506	52.95 ug/L	99
59)	Toluene	13.22	92	580680	22.57 ug/L	98
60)	Ethyl Methacrylate	13.60	69	395271	25.55 ug/L #	75
61)	T-1,3-Dichloropropene	13.55	75	368480	23.37 ug/L	76
62)	1,1,2-Trichloroethane	13.71	97	190814	21.82 ug/L	97
63)	1,3-Dichloropropane	13.96	76	361392	22.42 ug/L	98
64)	Tetrachloroethene	13.57	164	236151	27.67 ug/L	87
65)	Dibromochloromethane	13.89	129	258157	21.31 ug/L	96
66)	1,2-Dibromoethane	14.15	107	225533	22.67 ug/L	93
67)	Chlorobenzene	14.58	112	681167	22.84 ug/L	89
68)	1,1,1,2-Tetrachloroethane	14.61	131	258911	23.47 ug/L	88
69)	Ethylbenzene	14.54	106	296849	20.49 ug/L	99
70)	m-xylene & p-xylene	14.66	106	847879	47.40 ug/L	87
71)	O-Xylene	15.08	106	412181	21.93 ug/L	100
72)	Bromoform	15.22	173	176437	24.17 ug/L	92
73)	Styrene	15.11	104	853684	27.05 ug/L	88
74)	Isopropylbenzene	15.34	105	1030025	22.09 ug/L	99
75)	1,2,3-Trichloropropane	16.00	75	296982	21.12 ug/L	98
76)	1,1,2,2-Tetrachloroethane	15.80	83	244322	21.82 ug/L	96
78)	Bromofluorobenzene	15.68	95	924310	53.49 ug/L #	77
79)	T-1,4-dichloro-2-butene	15.99	53	95319	21.95 ug/L #	61
80)	N-Propylbenzene	15.75	91	1220746	22.04 ug/L	97
81)	Pentachloroethane	16.37	167	218140	24.72 ug/l	93
83)	Bromobenzene	15.83	156	302981	22.94 ug/L	81
84)	1,3,5-Trimethylbenzene	15.90	105	1006838	25.85 ug/L	91
85)	2-Chlorotoluene	15.97	91	690448	19.04 ug/L	99
86)	4-Chlorotoluene	16.14	91	739479	20.21 ug/L	95
87)	1,2,4-Trimethylbenzene	16.33	105	963752	25.39 ug/L	94
88)	s-Butylbenzene	16.47	105	1095826	21.25 ug/L	93
89)	tert-Butylbenzene	16.28	119	885671	25.64 ug/L	96
90)	p-Isopropyltoluene	16.59	119	879083	22.44 ug/L	97
91)	1,3-Dichlorobenzene	16.81	146	503633	20.19 ug/L	91
92)	1,4-Dichlorobenzene	16.91	146	508379	21.46 ug/L	95
93)	1,2-Dichlorobenzene	17.47	146	467761	20.37 ug/L	95
94)	N-Butylbenzene	17.10	91	937661	24.51 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:40 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

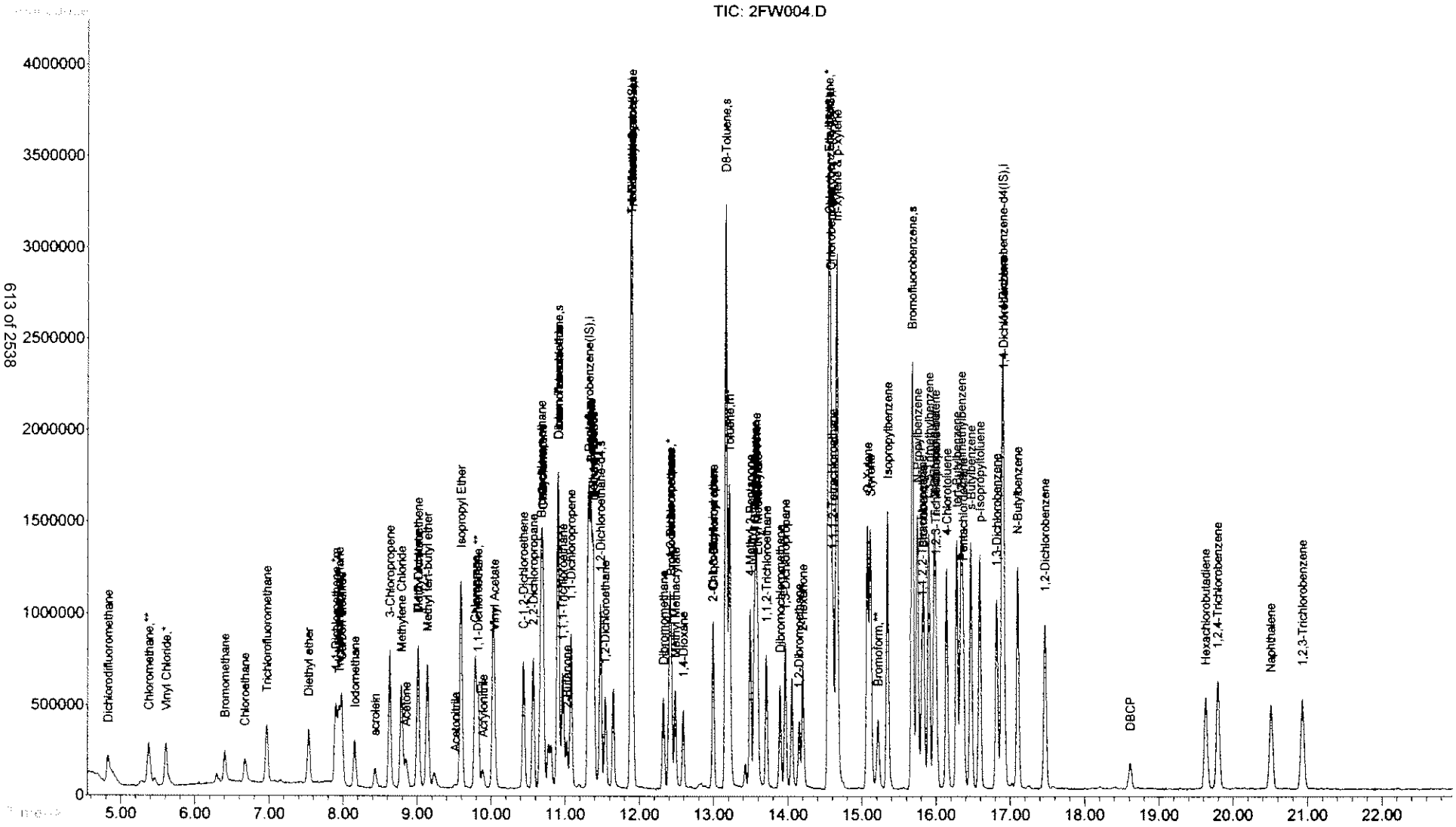
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.62	75	40055	21.56 ug/L	82
96) Naphthalene	20.51	128	708161	24.35 ug/L	100
97) 1,2,4-Trichlorobenzene	19.80	180	359108	25.85 ug/L	91
98) Hexachlorobutadiene	19.63	225	147886	22.33 ug/L	98
99) 1,2,3-Trichlorobenzene	20.93	180	325079	27.14 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:40 2013 Quant Results File: W1301050.RES

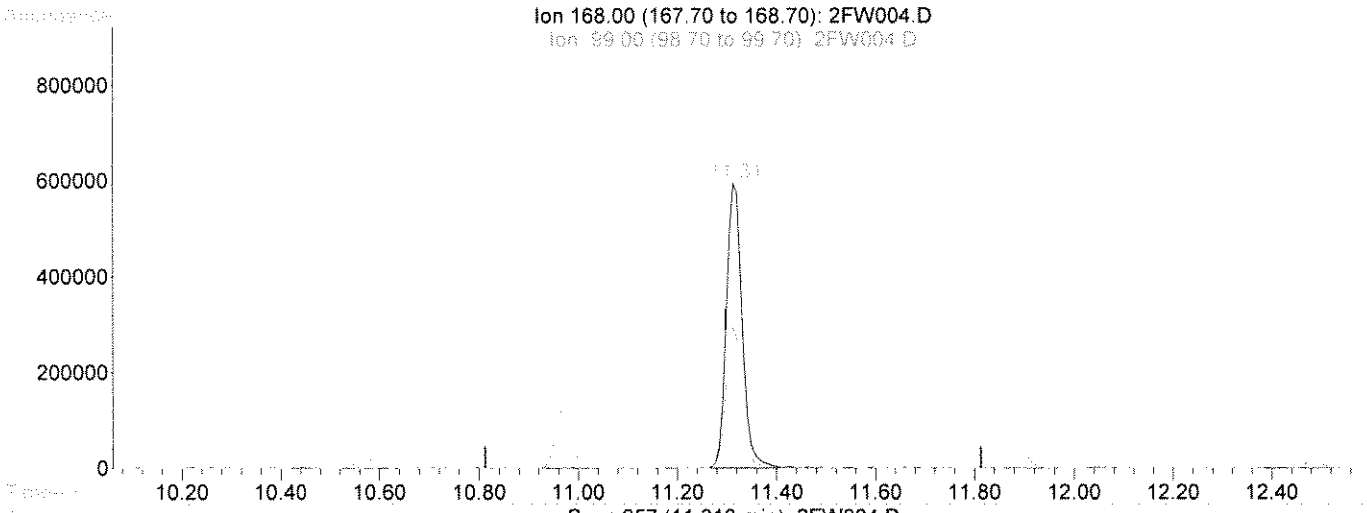
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration

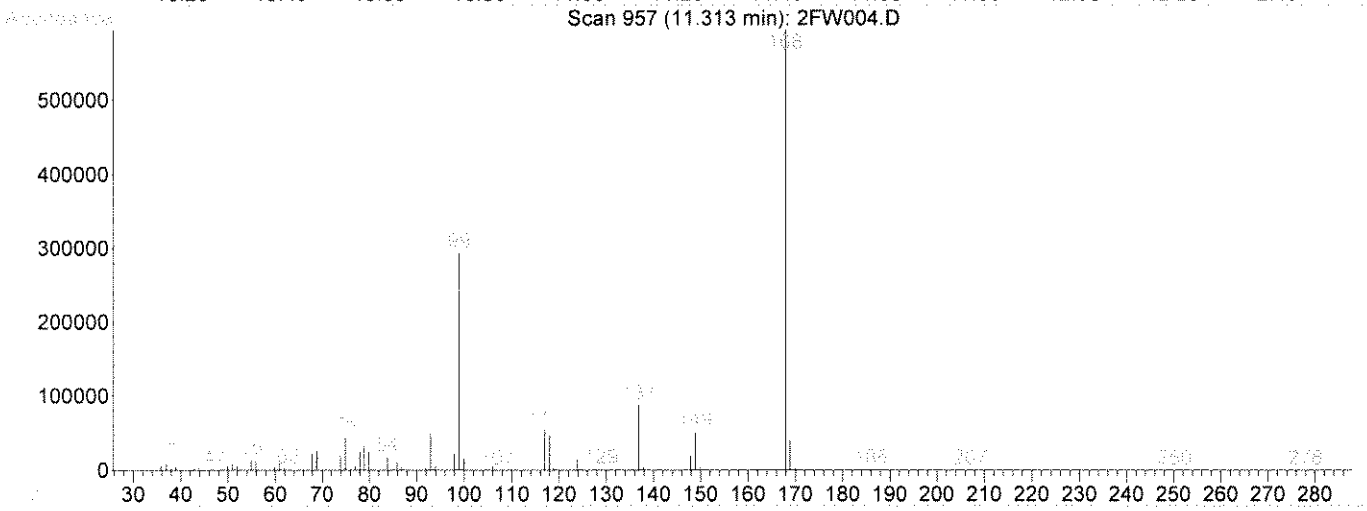


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:10 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW004.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L

response 1305924

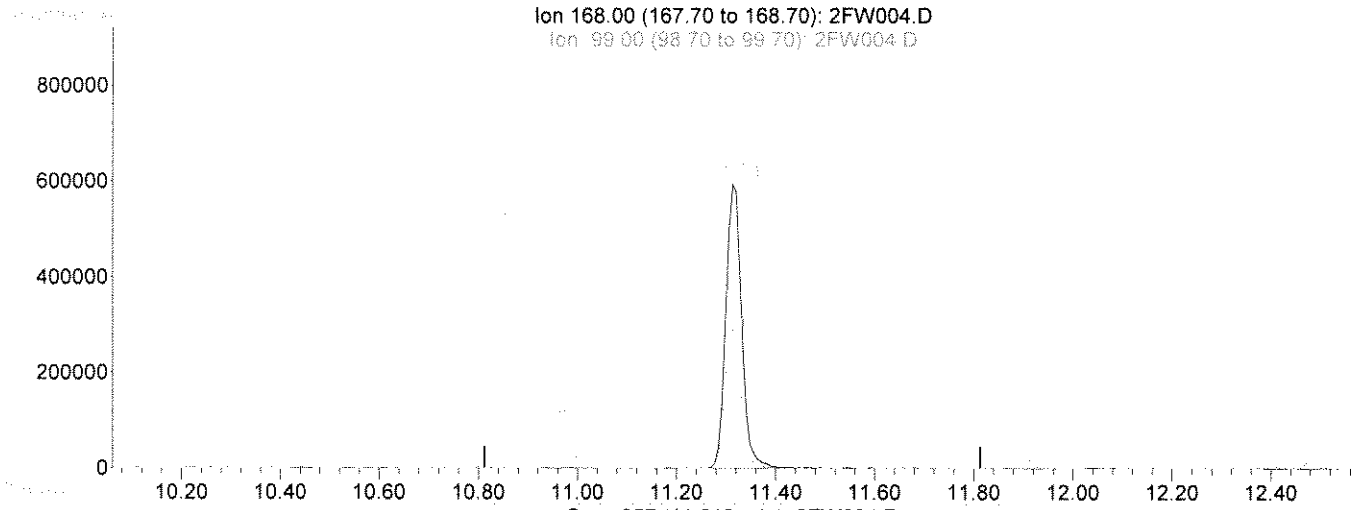
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	48.73
169.00	6.50	6.86
0.00	0.00	0.00

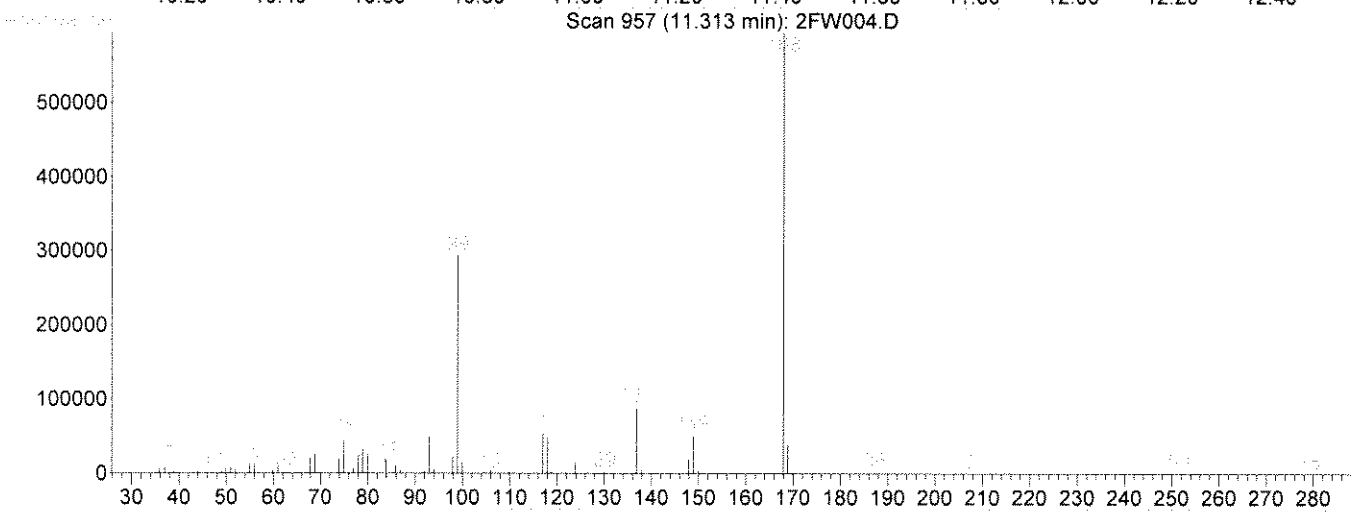
[ ] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline select
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] IS1D reintegration
[ ] Other:
Review by/Date NP 6/28/13
Review by/Date: KTO 7/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:26 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW004.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L m

response 1309873

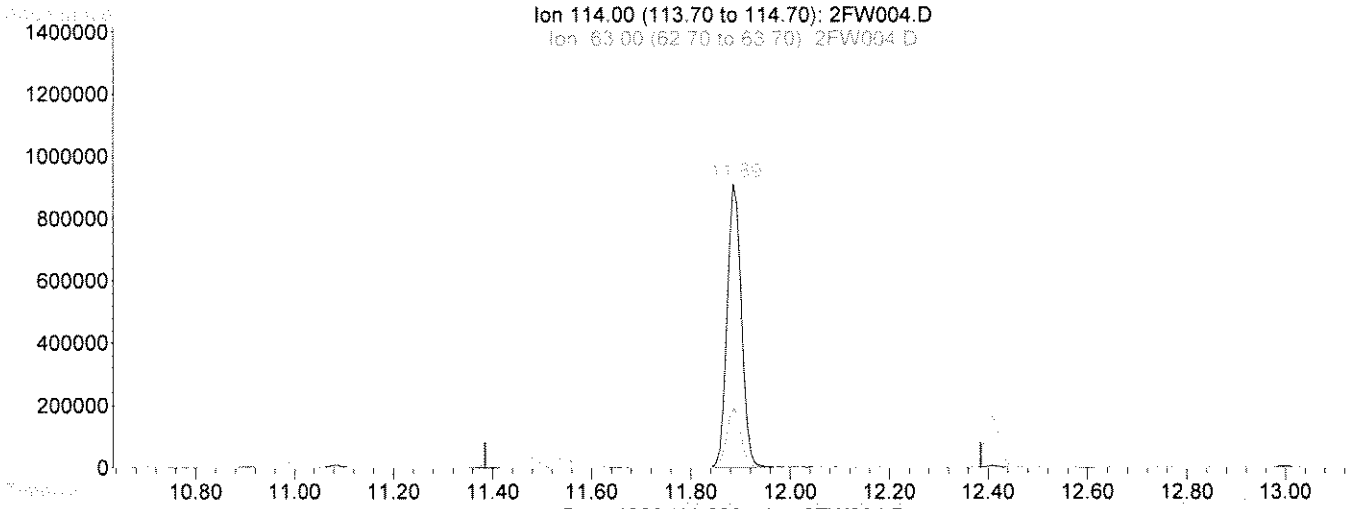
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	48.58
169.00	6.50	6.84
0.00	0.00	0.00

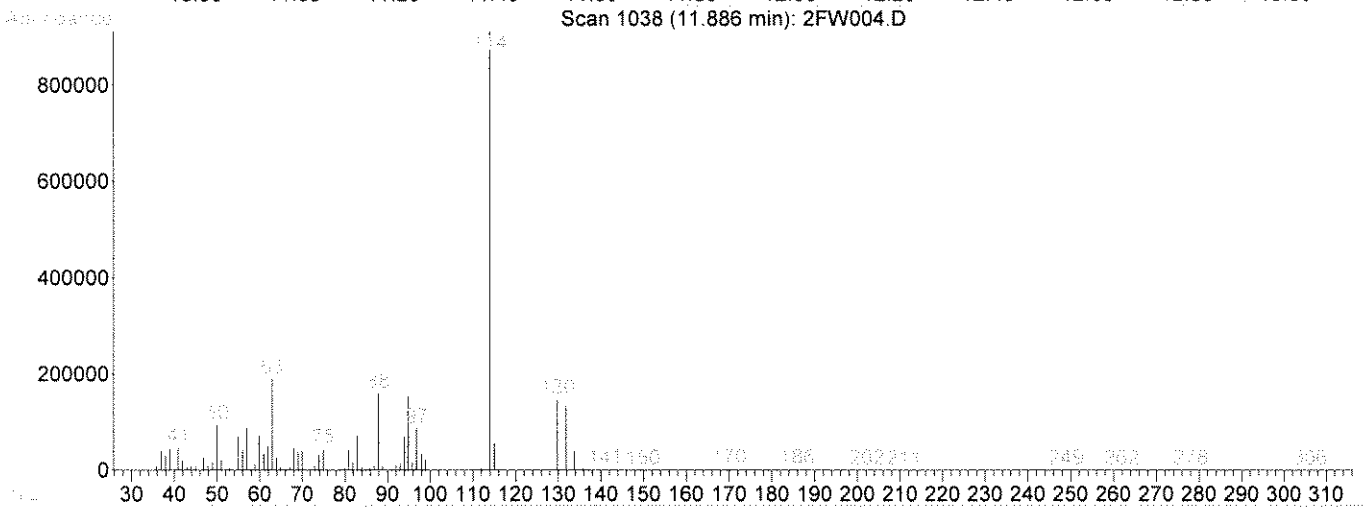
Select reason:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date NP 6/28/13
Review by/Date: LED 7/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:26 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW004.D

(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/L

response 1818674

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	20.85
88.00	18.00	17.25
0.00	0.00	0.00

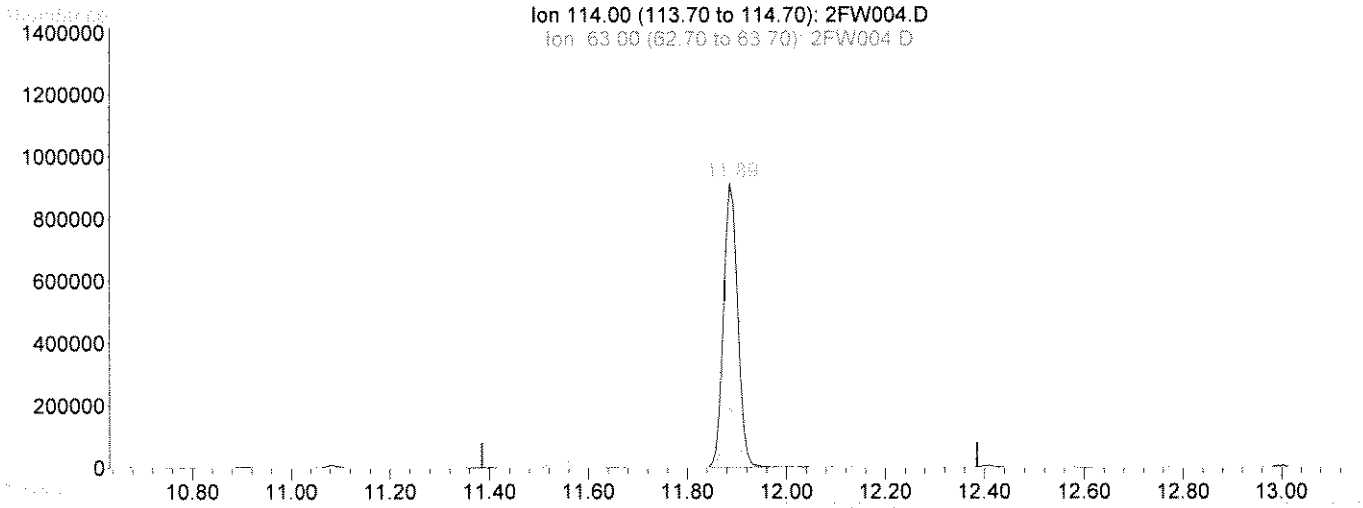
[] Only [illegible] Integration
Select [illegible] for [illegible] ration:
[] Poor integratio[illegible] tailing, baseline selection)
[] Incorrect peak [illegible] action/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[illegible]
[illegible] by/Date
[illegible]view by/Date:

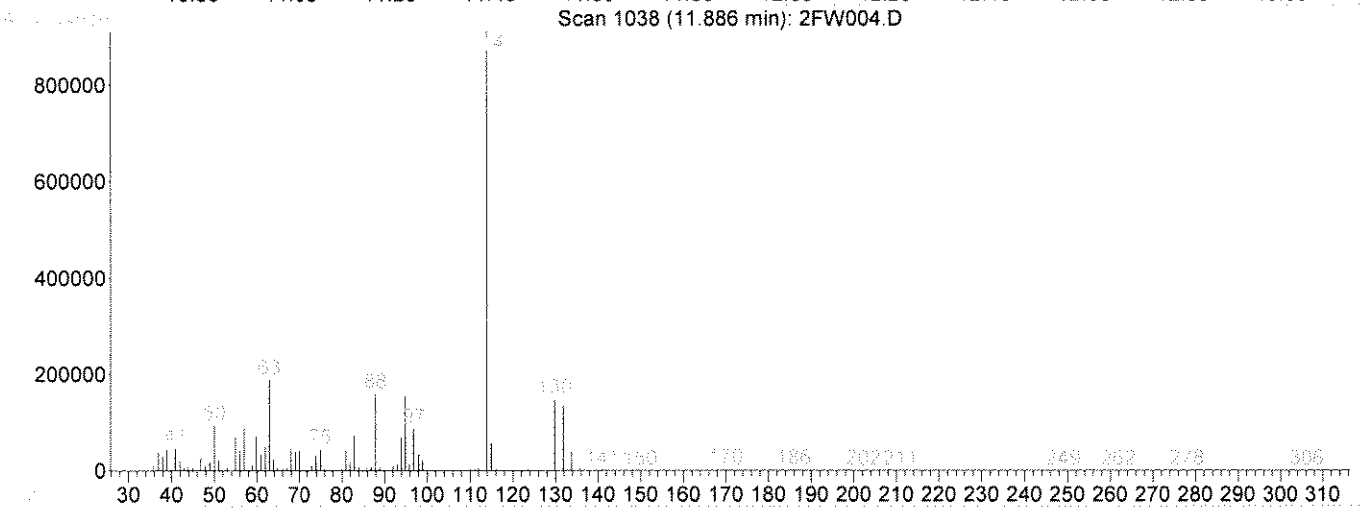
MPd28113
KG 70113

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:29 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/L m

response 1814101

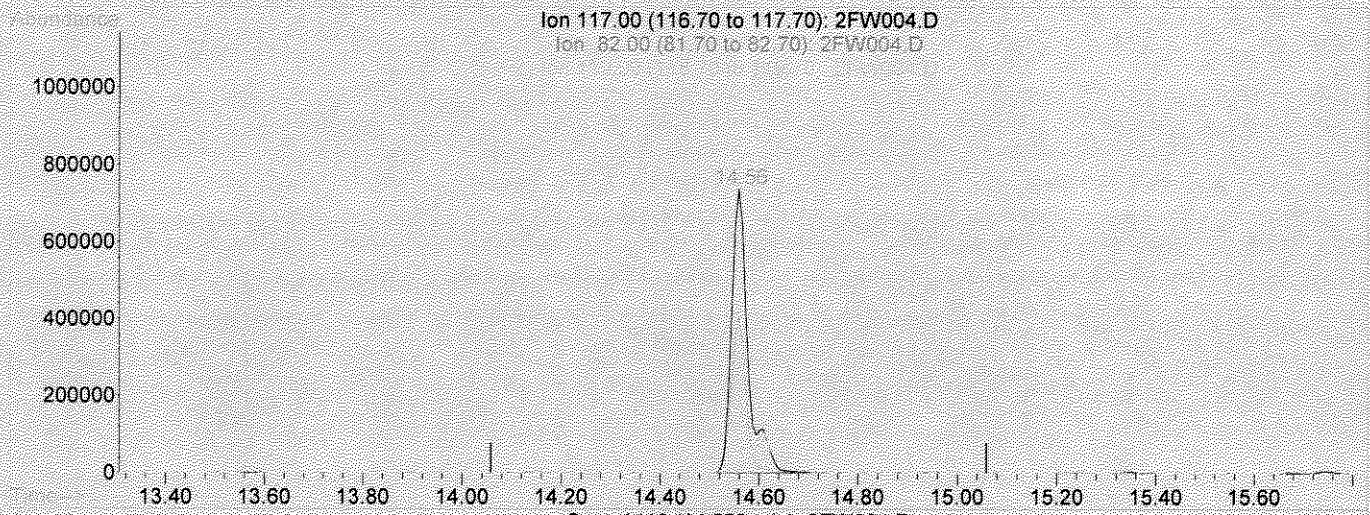
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	20.90
88.00	18.00	17.29
0.00	0.00	0.00

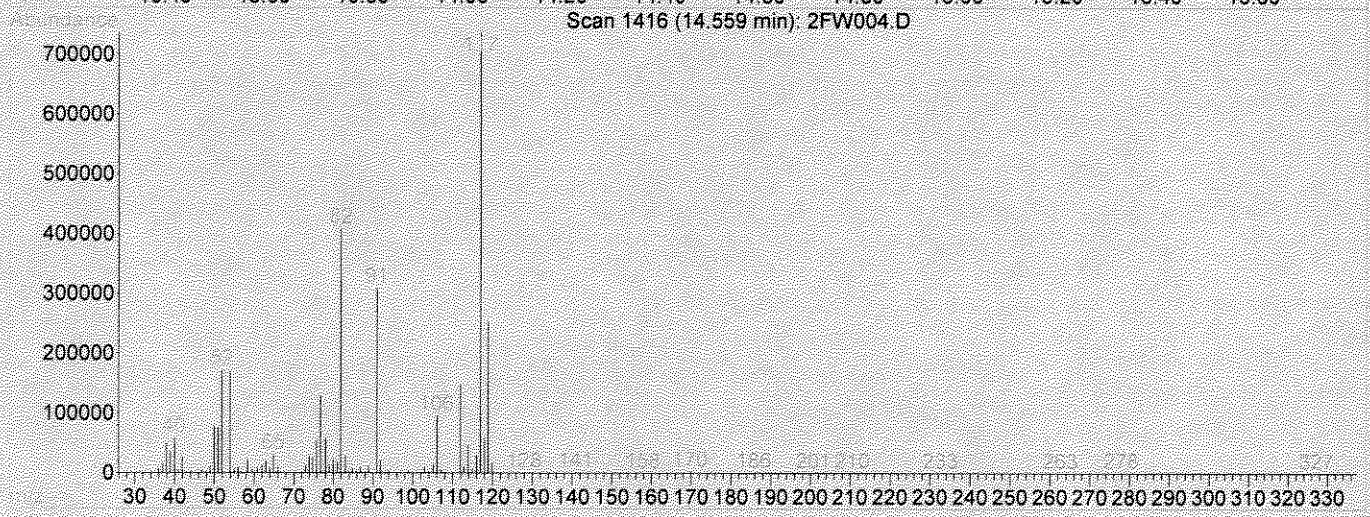
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] Poor reintegration
[ ] Other:
Review by/Date MP 6/28/13
Review by/Date: KJ 07/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW004.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/L

response 1706484

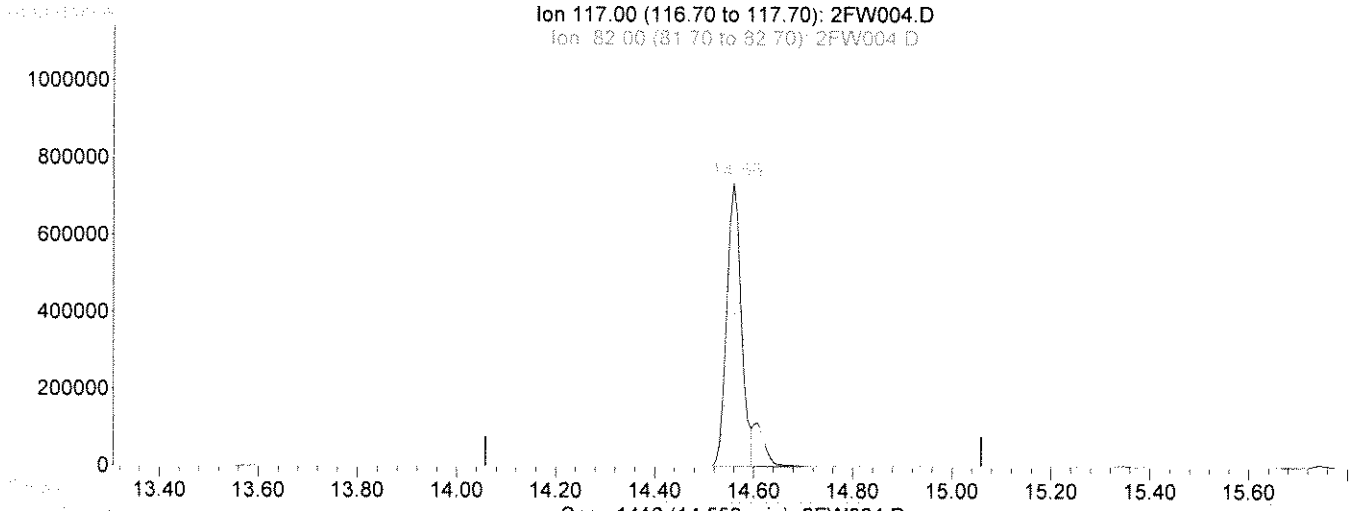
Ion	Exp%	Act%
117.00	100	100
82.00	60.00	48.66
119.00	32.80	28.68
0.00	0.00	0.00

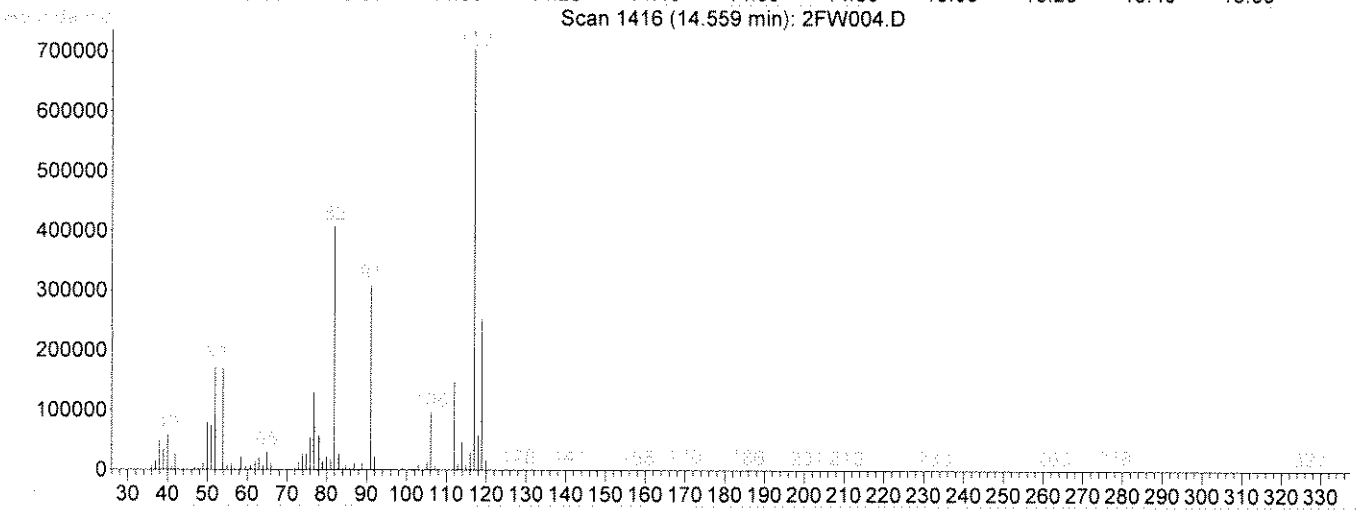
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: MP 6/28/13
Review by/Date: 7/10/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:10 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW004.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/L m

response 1508065

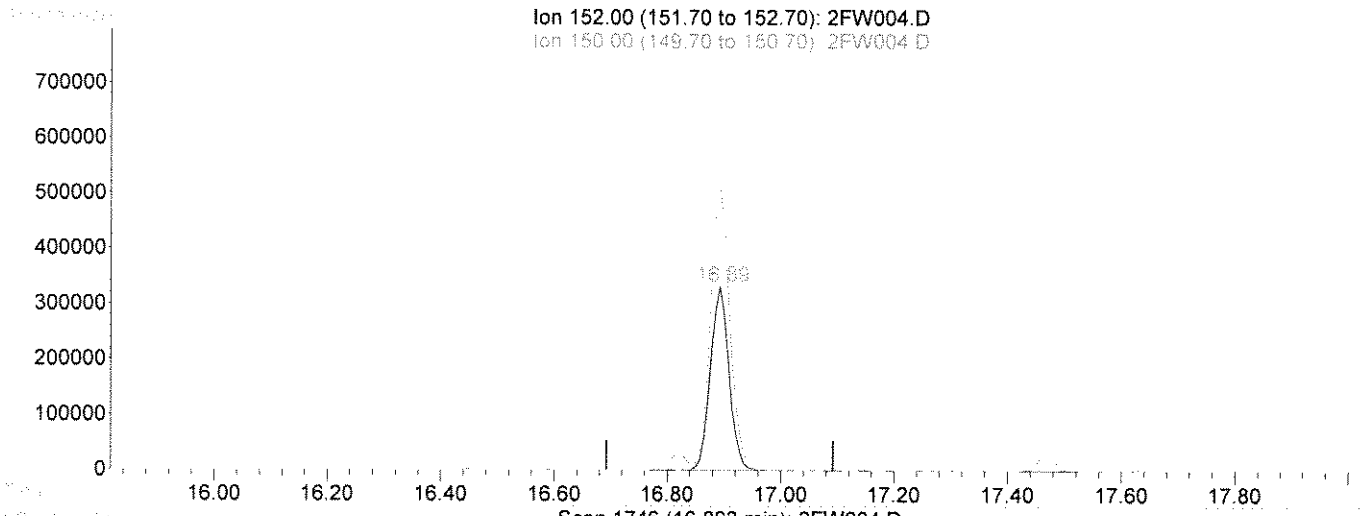
Ion	Exp%	Act%
117.00	100	100
82.00	60.00	55.06
119.00	32.80	32.45
0.00	0.00	0.00

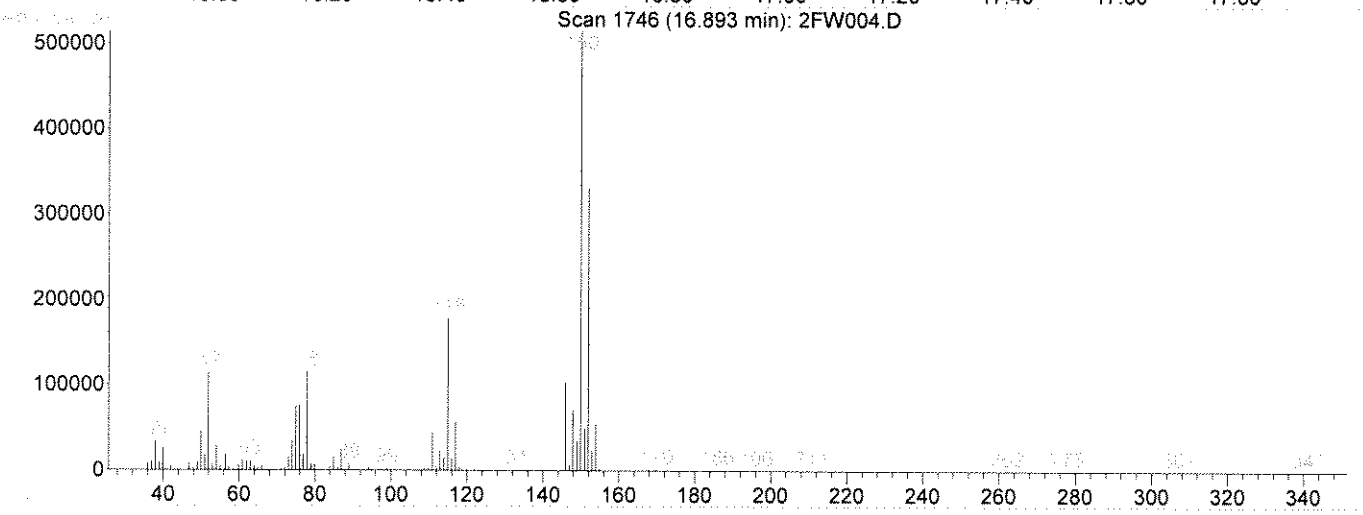
Integration:
[ ] Automatic Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date NP 6/28/13
Review by/Date: LGT 07/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:29 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW004.D

(82) 1,4-Dichlorobenzene-d4(IS) (i)

16.89min 50.00ug/L

response 755908

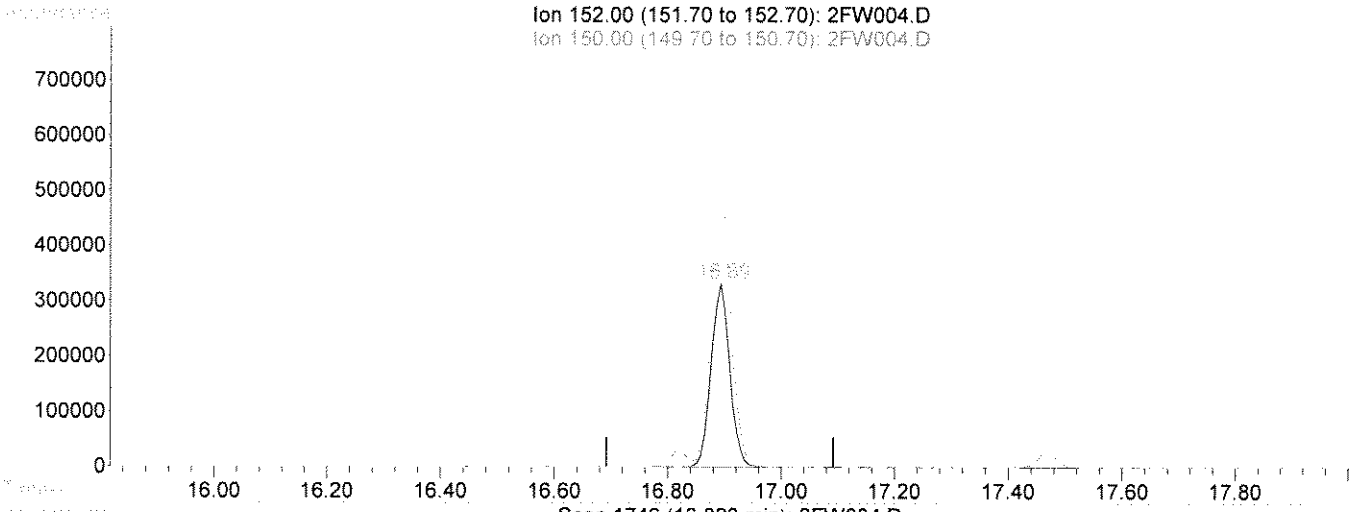
Ion	Exp%	Act%
152.00	100	100
150.00	170.90	161.13
115.00	63.90	53.91
0.00	0.00	0.00

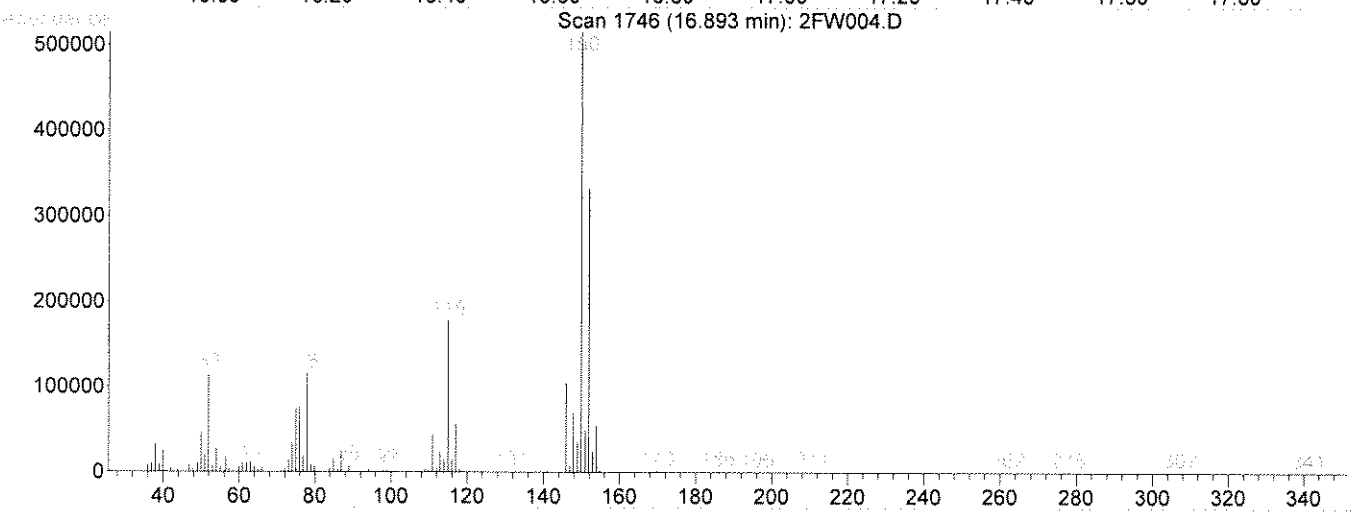
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date NP 6/28/13
Review by/Date: 07/01/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\062813\2FW004.D Vial: 4
Acq On : 28 Jun 2013 16:49 Operator: kat
Sample : 3f28011-bsd1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:29 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Multiple Level Calibration





TIC: 2FW004.D

(82) 1,4-Dichlorobenzene-d4(IS) (i)

16.89min 50.00ug/L m

response 756454

Ion	Exp%	Act%
152.00	100	100
150.00	170.90	161.01
115.00	63.90	53.87
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] MSD reintegration
[] Other:
Review by/Date: 6/28/13
Review by/Date: 7/01/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW005.D Vial: 5
Acq On : 28 Jun 2013 17:22 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:21 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NP 6/30/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1288519	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1810915	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1476376	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	715805	50.00 ug/L	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	713299	43.67 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 87.34%		
44) 1,2-Dichloroethane-d4	11.48	65	748003	49.13 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 98.26%		
56) D8-Toluene	13.17	98	2262824	51.40 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 102.80%		
77) Bromofluorobenzene	15.68	95	874201	51.68 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 103.36%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D. d	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D. d	
26) Propionitrile	0.00	54		N.D.	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.91	113	713299	43.67 ug/L	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW005.D Vial: 5
Acq On : 28 Jun 2013 17:22 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:21 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.48	65	748003	49.13 ug/l	93
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D. d	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.17	98	2262824	51.40 ug/L	100
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D. d	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D. d	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D. d	
67) Chlorobenzene	0.00	112		N.D. d	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D. d	
69) Ethylbenzene	0.00	106		N.D. d	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D. d	
72) Bromoform	0.00	173		N.D. d	
73) Styrene	0.00	104		N.D. d	
74) Isopropylbenzene	0.00	105		N.D. d	
75) 1,2,3-Trichloropropane	0.00	75		N.D. d	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D. d	
78) Bromofluorobenzene	15.68	95	874201	51.68 ug/L #	82
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D. d	
81) Pentachloroethane	0.00	167		N.D. d	
83) Bromobenzene	0.00	156		N.D. d	
84) 1,3,5-Trimethylbenzene	0.00	105		N.D. d	
85) 2-Chlorotoluene	0.00	91		N.D. d	
86) 4-Chlorotoluene	0.00	91		N.D. d	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
88) s-Butylbenzene	0.00	105		N.D. d	
89) tert-Butylbenzene	0.00	119		N.D. d	
90) p-Isopropyltoluene	0.00	119		N.D. d	
91) 1,3-Dichlorobenzene	0.00	146		N.D. d	
92) 1,4-Dichlorobenzene	0.00	146		N.D. d	
93) 1,2-Dichlorobenzene	0.00	146		N.D. d	
94) N-Butylbenzene	0.00	91		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW005.D Vial: 5
Acq On : 28 Jun 2013 17:22 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:21 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

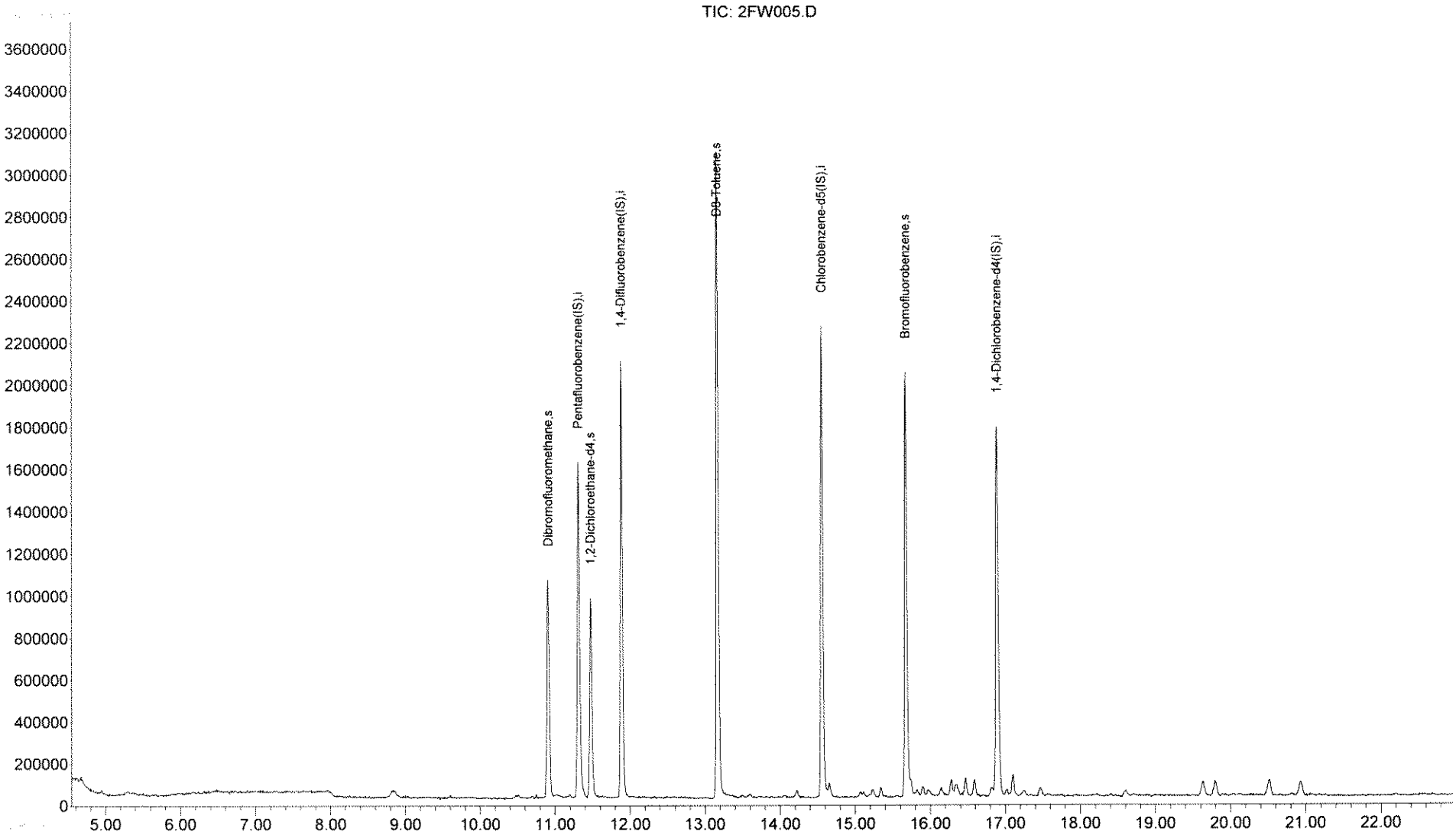
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	0.00	75		N.D. d	
96) Naphthalene	0.00	128		N.D. d	
97) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
98) Hexachlorobutadiene	0.00	225		N.D. d	
99) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW005.D Vial: 5
Acq On : 28 Jun 2013 17:22 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:21 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 28 Jun 2013 17:22
Data File: C:\HPCHEM\1\DATA\062813\2FW005.D
Name: 3f28011-blk1
Misc:
Method: C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1301050
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FW005.D W1301050.M Mon Jul 01 13:06:35 2013

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062813\2FW005.D Vial: 5
Acq On : 28 Jun 2013 17:22 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

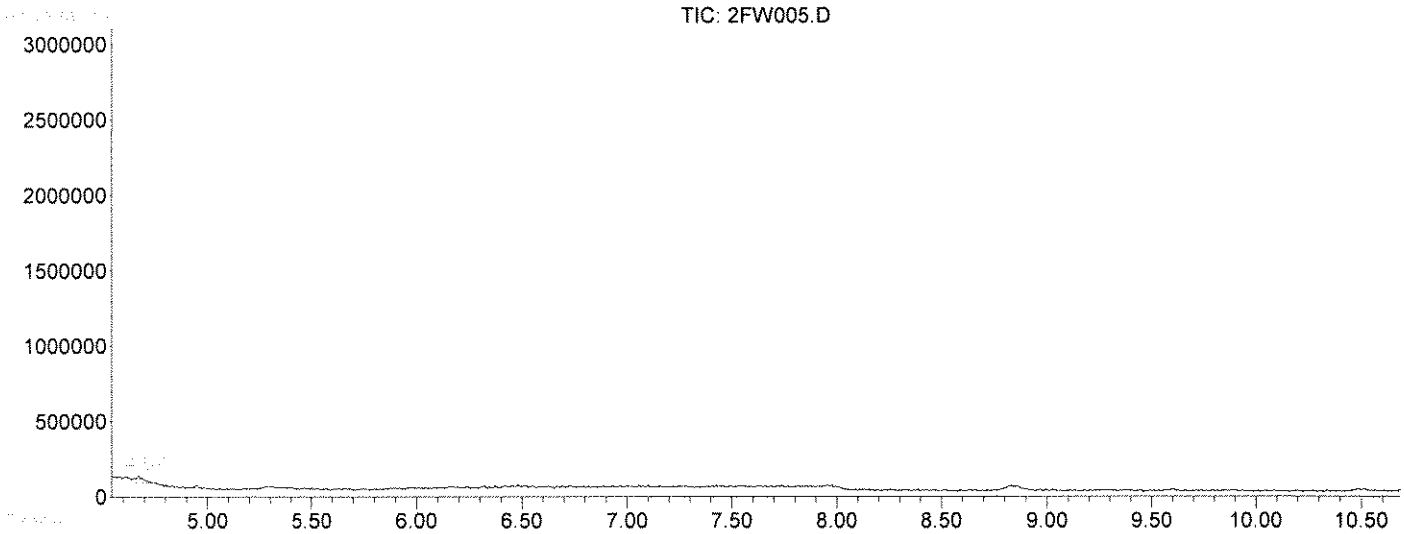
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.674	17	19	29	rVB4	50417	104099	1.66%	0.301%
2	10.912	894	901	911	rBV	1038040	2295703	36.57%	6.644%
3	11.315	951	958	974	rVB	1600662	3464281	55.18%	10.026%
4	11.478	974	981	993	rBV	954947	2099968	33.45%	6.078%
5	11.888	1032	1039	1053	rBV	2077385	4176872	66.53%	12.089%
6	13.168	1212	1220	1232	rBV	3076293	6278149	100.00%	18.170%
7	14.221	1363	1369	1376	rVB10	38364	103860	1.65%	0.301%
8	14.561	1410	1417	1427	rBV	2238375	4541455	72.34%	13.144%
9	14.653	1427	1430	1439	rVB6	67480	143402	2.28%	0.415%
10	15.070	1481	1489	1492	rBV7	28421	67963	1.08%	0.197%
11	15.226	1506	1511	1520	rVB4	35372	99199	1.58%	0.287%
12	15.339	1523	1527	1533	rBV3	45857	92642	1.48%	0.268%
13	15.678	1568	1575	1588	rBV	2020354	4397428	70.04%	12.727%
14	15.897	1601	1606	1612	rVV5	42124	99070	1.58%	0.287%
15	15.975	1612	1617	1625	rVB4	25719	72772	1.16%	0.211%
16	16.279	1654	1660	1665	rBV	74748	161240	2.57%	0.467%
17	16.336	1665	1668	1677	rVB5	47581	137396	2.19%	0.398%
18	16.470	1682	1687	1695	rVV	84107	165257	2.63%	0.478%
19	16.590	1699	1704	1710	rVB2	73737	151044	2.41%	0.437%
20	16.824	1728	1737	1740	rBV6	41883	122757	1.96%	0.355%
21	16.895	1740	1747	1759	rVV	1759409	4364129	69.51%	12.631%
22	17.022	1761	1765	1768	rVV4	32221	64551	1.03%	0.187%
23	17.100	1771	1776	1787	rVB2	103153	233395	3.72%	0.675%
24	17.467	1823	1828	1838	rBV7	39288	119224	1.90%	0.345%
25	18.606	1982	1989	1997	rBV7	29936	103485	1.65%	0.300%
26	19.631	2125	2134	2144	rVB8	69109	226013	3.60%	0.654%
27	19.794	2152	2157	2165	rVB3	73401	196158	3.12%	0.568%
28	20.508	2249	2258	2267	rBV	74814	245064	3.90%	0.709%
29	20.926	2308	2317	2326	rVB2	66867	225024	3.58%	0.651%

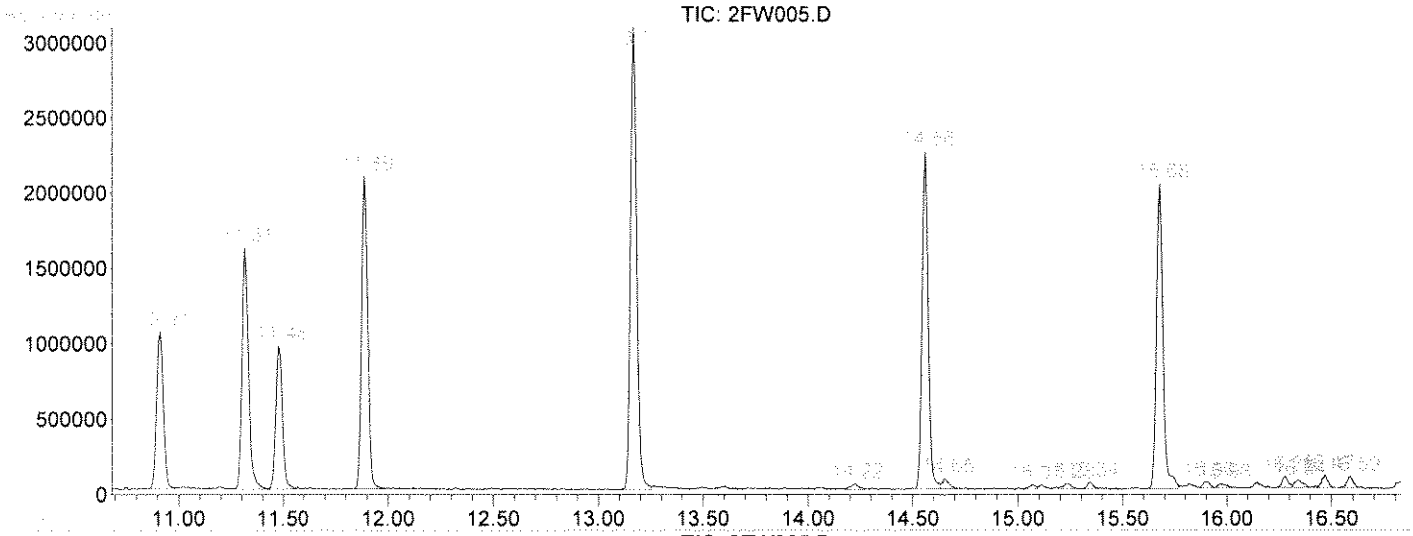
Sum of corrected areas: 34551600

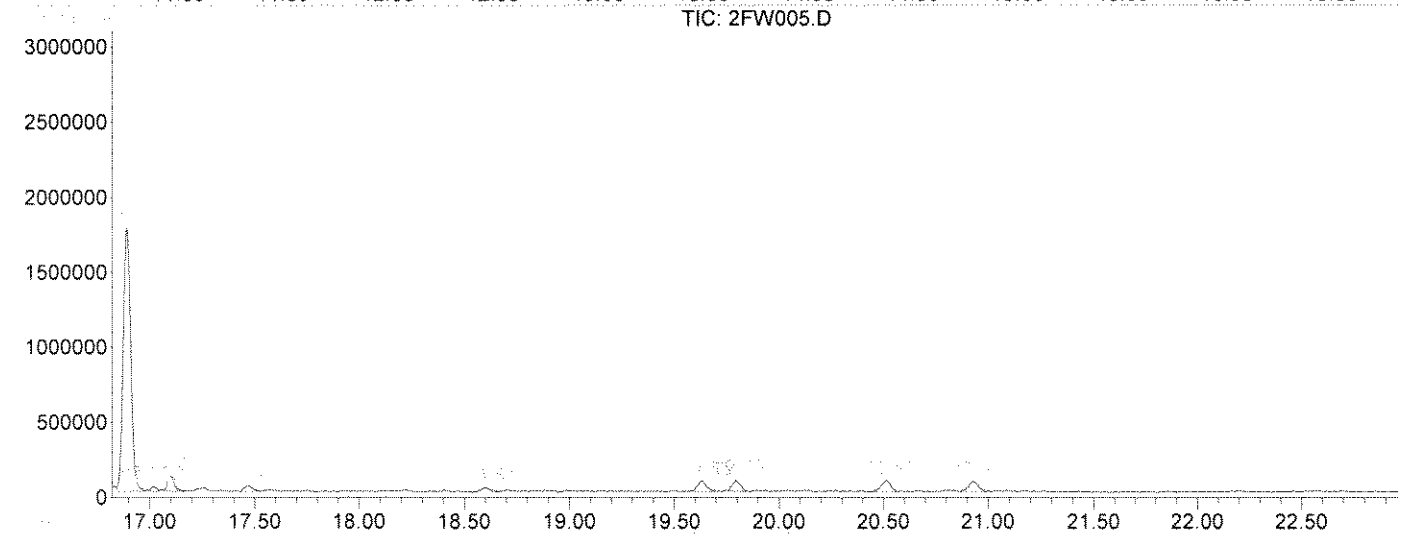
2FW005.D W1301050.M Mon Jul 01 13:06:34 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062813\2FW005.D
Operator : kat
Acquired : 28 Jun 2013 17:22 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: 3f28011-blk1
Misc Info :
Vial Number: 5
Quant File :W1301050.RES (RTE Integrator)







2FW005.D W1301050.M Mon Jul 01 13:06:35 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW006.D Vial: 6
Acq On : 28 Jun 2013 17:55 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:22 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NP 6/30/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1215144	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1726881	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.57	117	1409446	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.90	152	677940	50.00 ug/L	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.92	113	692517	44.96 ug/L	0.01
Spiked Amount 50.000	Range 53 - 146		Recovery = 89.92%		
44) 1,2-Dichloroethane-d4	11.48	65	746922	51.45 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 102.90%		
56) D8-Toluene	13.17	98	2215111	52.76 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 105.52%		
77) Bromofluorobenzene	15.68	95	861527	53.35 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 106.70%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D.	
6) Chloroethane	0.00	64		N.D.	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D.	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D. d	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D.	
26) Propionitrile	0.00	54		N.D.	
27) 2,2-Dichloropropane	0.00	77		N.D. d	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.92	113	692517	44.96 ug/L	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW006.D Vial: 6
Acq On : 28 Jun 2013 17:55 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:22 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.48	65	746922	51.45 ug/l	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.17	98	2215111	52.76 ug/L	99
59) Toluene	0.00	92		N.D. d	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D. d	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.68	95	861527	53.35 ug/L #	83
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D. d	
81) Pentachloroethane	0.00	167		N.D.	
83) Bromobenzene	0.00	156		N.D.	
84) 1,3,5-Trimethylbenzene	0.00	105		N.D. d	
85) 2-Chlorotoluene	0.00	91		N.D. d	
86) 4-Chlorotoluene	0.00	91		N.D. d	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
88) s-Butylbenzene	0.00	105		N.D. d	
89) tert-Butylbenzene	0.00	119		N.D. d	
90) p-Isopropyltoluene	0.00	119		N.D. d	
91) 1,3-Dichlorobenzene	0.00	146		N.D. d	
92) 1,4-Dichlorobenzene	0.00	146		N.D. d	
93) 1,2-Dichlorobenzene	0.00	146		N.D. d	
94) N-Butylbenzene	0.00	91		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW006.D Vial: 6
Acq On : 28 Jun 2013 17:55 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:22 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) DBCP	0.00	75		N.D.	d	
96) Naphthalene	0.00	128		N.D.	d	
97) 1,2,4-Trichlorobenzene	0.00	180		N.D.	d	
98) Hexachlorobutadiene	0.00	225		N.D.	d	
99) 1,2,3-Trichlorobenzene	0.00	180		N.D.	d	

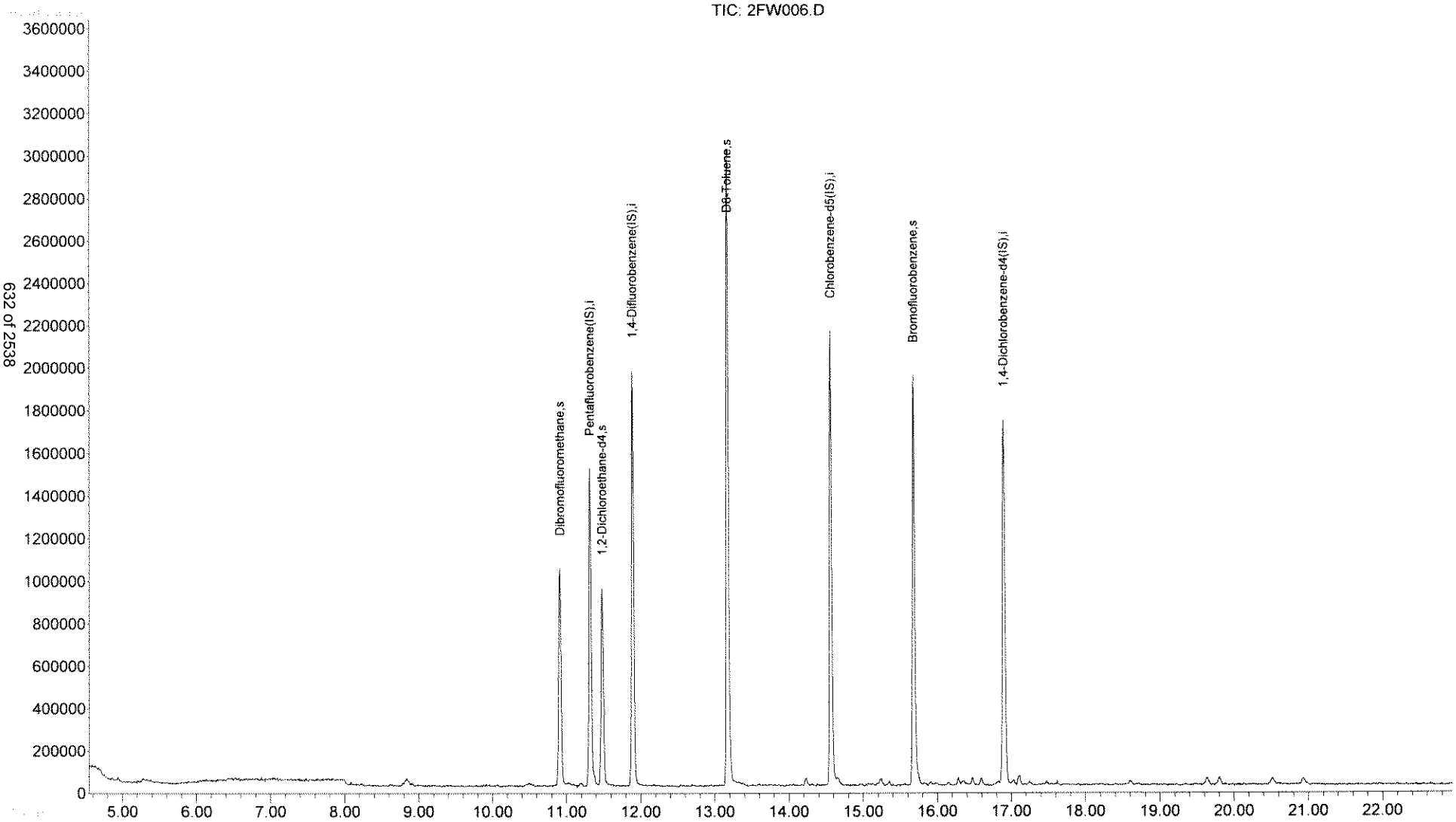
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW006.D
Acq On : 28 Jun 2013 17:55
Sample : 3f28011-blk1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 30 9:22 2013

Vial: 6
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 28 Jun 2013 17:55
Data File: C:\HPCHEM\1\DATA\062813\2FW006.D
Name: 3f28011-blk1
Misc:
Method: C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1301050
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FW006.D W1301050.M Mon Jul 01 13:08:20 2013

KAT 7/01/13

KAT 7/01/13

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062813\2FW006.D Vial: 6
Acq On : 28 Jun 2013 17:55 Operator: kat
Sample : 3f28011-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

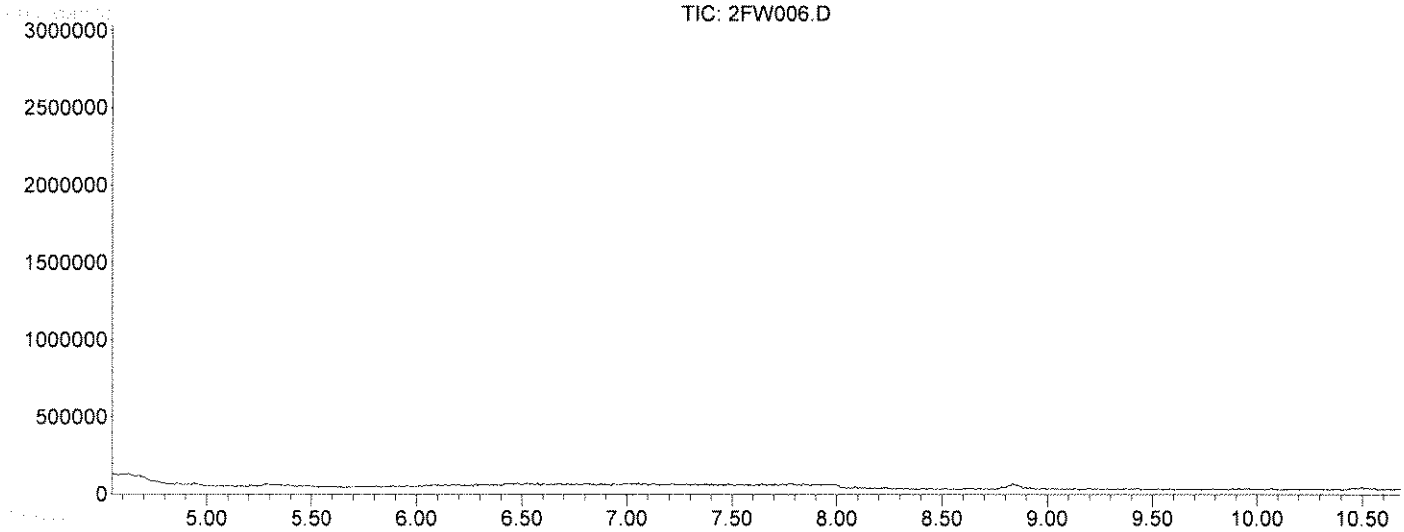
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.916	894	901	912	rBV	1024208	2259134	36.64%	7.285%
2	11.319	950	958	970	rBV	1495996	3206488	52.01%	10.340%
3	11.482	974	981	988	rBV2	928037	1987025	32.23%	6.408%
4	11.892	1032	1039	1050	rBV	1950611	3944133	63.97%	12.719%
5	13.172	1211	1220	1232	rBV	2999507	6165567	100.00%	19.882%
6	14.240	1364	1371	1377	rVB	34339	86727	1.41%	0.280%
7	14.565	1409	1417	1427	rBV	2135169	4283175	69.47%	13.812%
8	15.244	1508	1513	1519	rVB6	33205	87742	1.42%	0.283%
9	15.682	1567	1575	1592	rBV	1925118	4278065	69.39%	13.796%
10	16.467	1682	1686	1693	rVB3	32772	64703	1.05%	0.209%
11	16.595	1699	1704	1713	rVB3	35076	97500	1.58%	0.314%
12	16.899	1740	1747	1757	rVV	1715502	4068433	65.99%	13.120%
13	17.111	1771	1777	1783	rVB4	44734	113312	1.84%	0.365%
14	19.636	2124	2134	2143	rVB4	37099	116564	1.89%	0.376%
15	19.798	2151	2157	2164	rVB9	35905	91909	1.49%	0.296%
16	20.512	2253	2258	2266	rVB2	28436	77972	1.26%	0.251%
17	20.930	2311	2317	2323	rBV9	27772	82123	1.33%	0.265%

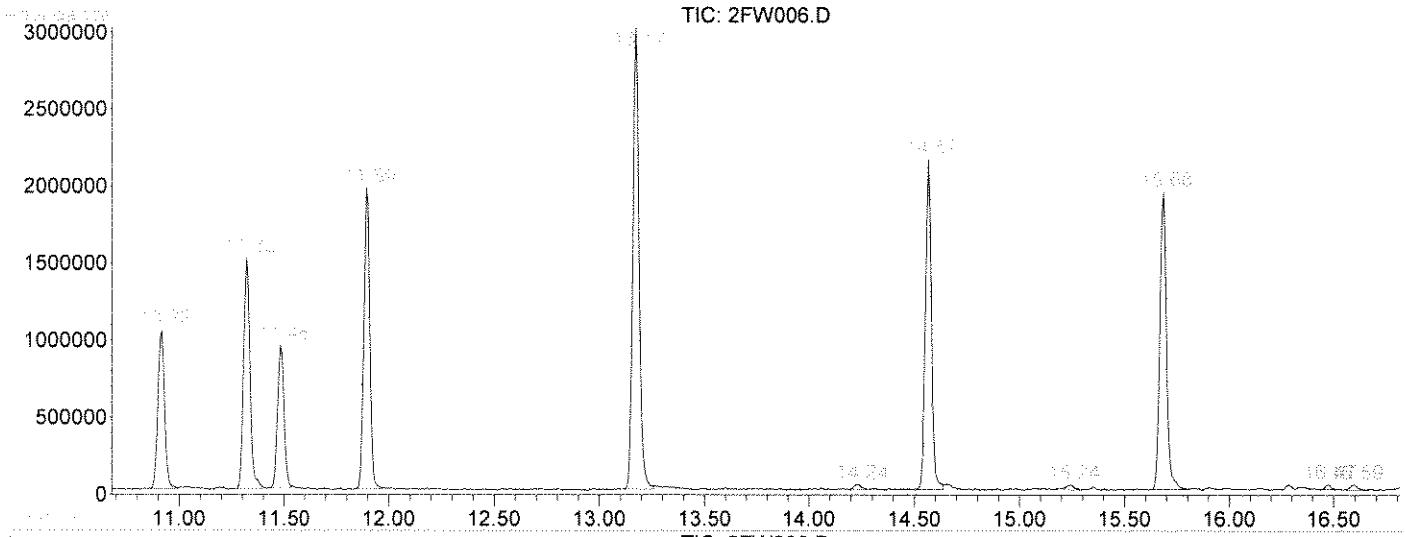
Sum of corrected areas: 31010572

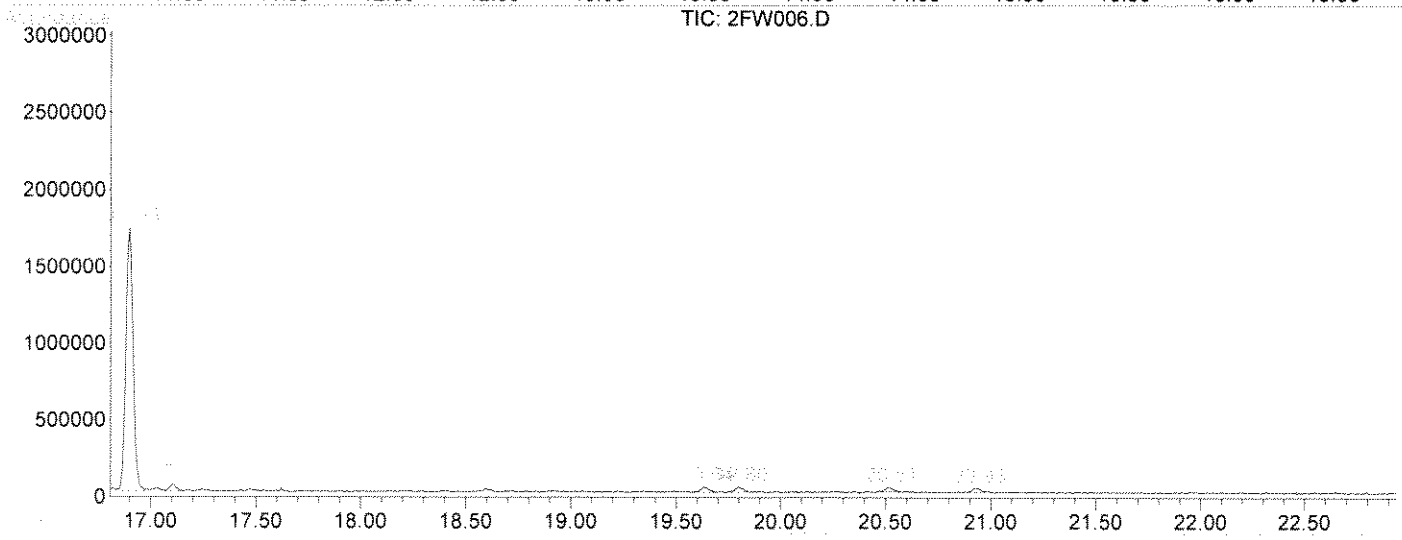
2FW006.D W1301050.M Mon Jul 01 13:08:19 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062813\2FW006.D
Operator : kat
Acquired : 28 Jun 2013 17:55 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: 3f28011-blk1
Misc Info :
Vial Number: 6
Quant File :W1301050.RES (RTE Integrator)







2FW006.D W1301050.M Mon Jul 01 13:08:20 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW014.D Vial: 14
Acq On : 28 Jun 2013 22:14 Operator: kat
Sample : a303499-01 Inst : OVGCMS2
Misc : tb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:32 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NPU 6/30/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1098956	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1600817	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1312559	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.90	152	619411	50.00 ug/L	0.00

SUR
VIX
CONTG
OVR

System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	462619	33.21 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 66.42%		
44) 1,2-Dichloroethane-d4	11.47	65	476186	35.38 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 70.76%		
56) D8-Toluene	13.16	98	1519688	39.05 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 78.10%		
77) Bromofluorobenzene	15.67	95	599648	39.87 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 79.74%		

(ac) SUR

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D.	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D. d	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D. d	
26) Propionitrile	0.00	54		N.D. d	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.91	113	462619	33.21 ug/L	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW014.D Vial: 14
Acq On : 28 Jun 2013 22:14 Operator: kat
Sample : a303499-01 Inst : OVGCMS2
Misc : tb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:32 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D. d	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.47	65	476186	35.38 ug/l	95
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D.	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D. d	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.16	98	1519688	39.05 ug/L	99
59)	Toluene	0.00	92		N.D.	
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	0.00	106		N.D.	
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.67	95	599648	39.87 ug/L #	84
79)	T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80)	N-Propylbenzene	0.00	91		N.D.	
81)	Pentachloroethane	0.00	167		N.D.	
83)	Bromobenzene	0.00	156		N.D.	
84)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
85)	2-Chlorotoluene	0.00	91		N.D.	
86)	4-Chlorotoluene	0.00	91		N.D.	
87)	1,2,4-Trimethylbenzene	0.00	105		N.D.	
88)	s-Butylbenzene	0.00	105		N.D.	
89)	tert-Butylbenzene	0.00	119		N.D.	
90)	p-Isopropyltoluene	0.00	119		N.D.	
91)	1,3-Dichlorobenzene	16.82	146	21079	1.03 ug/L	91
92)	1,4-Dichlorobenzene	16.91	146	125680	6.48 ug/L	94
93)	1,2-Dichlorobenzene	17.47	146	104291	5.55 ug/L	98
94)	N-Butylbenzene	0.00	91		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW014.D Vial: 14
Acq On : 28 Jun 2013 22:14 Operator: kat
Sample : a303499-01 Inst : OVGCMS2
Misc : tb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:32 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

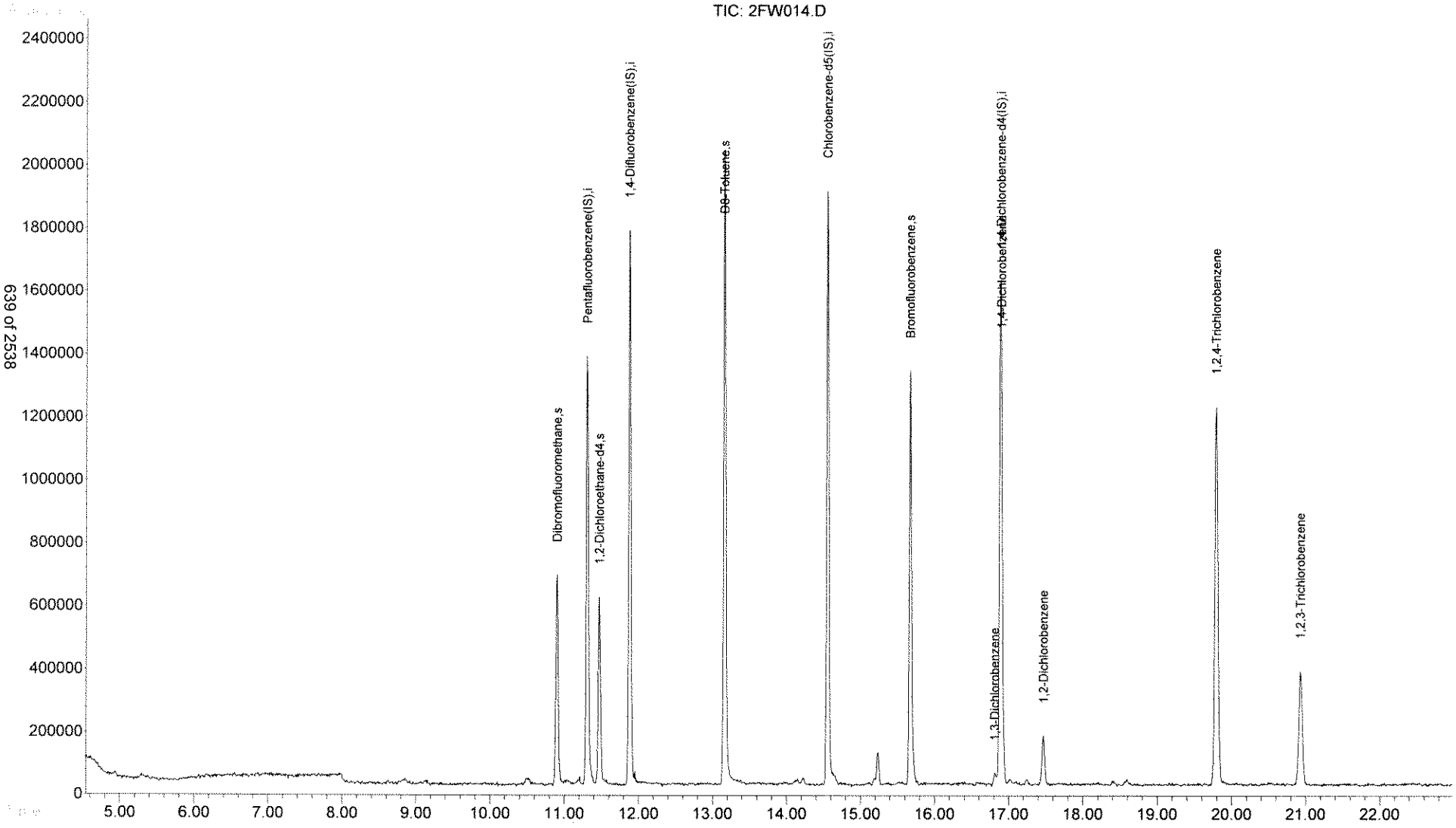
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	0.00	75		N.D.	
96) Naphthalene	0.00	128		N.D. d	
97) 1,2,4-Trichlorobenzene	19.79	180	736185	64.73 ug/L	91
98) Hexachlorobutadiene	0.00	225		N.D. d	
99) 1,2,3-Trichlorobenzene	20.93	180	239829	24.45 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW014.D Vial: 14
Acq On : 28 Jun 2013 22:14 Operator: kat
Sample : a303499-01 Inst : OVGCMS2
Misc : tb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:32 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW015.D
Acq On : 28 Jun 2013 22:46
Sample : a303499-08
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 30 9:33 2013

Vial: 15
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NP 6/30/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1175430	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1712647	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1358134	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	643539	50.00 ug/L	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	473783	31.80 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 63.60%		
44) 1,2-Dichloroethane-d4	11.47	65	497489	34.55 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 69.10%		
56) D8-Toluene	13.17	98	1536458	36.90 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 73.80%		
77) Bromofluorobenzene	15.68	95	608634	39.11 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 78.22%		

Low Sum

fix carryover.

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D.	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D. d	
6) Chloroethane	0.00	64	N.D.	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D. d	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D.	
15) Carbon disulfide	0.00	76	N.D.	
16) Methylene Chloride	0.00	84	N.D. d	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D.	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D.	
26) Propionitrile	0.00	54	N.D. d	
27) 2,2-Dichloropropane	0.00	77	N.D.	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	10.91	113	473783	31.80 ug/L 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D. d	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW015.D Vial: 15
Acq On : 28 Jun 2013 22:46 Operator: kat
Sample : a303499-08 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:33 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D.	
45) 1,2-Dichloroethane-d4	11.47	65	497489	34.55 ug/l	93
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.17	98	1536458	36.90 ug/L	99
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.68	95	608634	39.11 ug/L #	82
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
81) Pentachloroethane	0.00	167		N.D.	
83) Bromobenzene	0.00	156		N.D.	
84) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
85) 2-Chlorotoluene	0.00	91		N.D.	
86) 4-Chlorotoluene	0.00	91		N.D.	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) tert-Butylbenzene	0.00	119		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,3-Dichlorobenzene	16.81	146	7843	0.37 ug/L	90
92) 1,4-Dichlorobenzene	16.91	146	35766	1.77 ug/L	91
93) 1,2-Dichlorobenzene	17.47	146	29037	1.49 ug/L	96
94) N-Butylbenzene	0.00	91		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW015.D
Acq On : 28 Jun 2013 22:46
Sample : a303499-08
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 30 9:33 2013

Vial: 15
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	0.00	75		N.D.	
96) Naphthalene	0.00	128		N.D.	
97) 1,2,4-Trichlorobenzene	19.80	180	262297	22.20 ug/L	92
98) Hexachlorobutadiene	0.00	225		N.D.	
99) 1,2,3-Trichlorobenzene	20.93	180	88618	8.70 ug/L	95

(#) = qualifier out of range (m) = manual integration

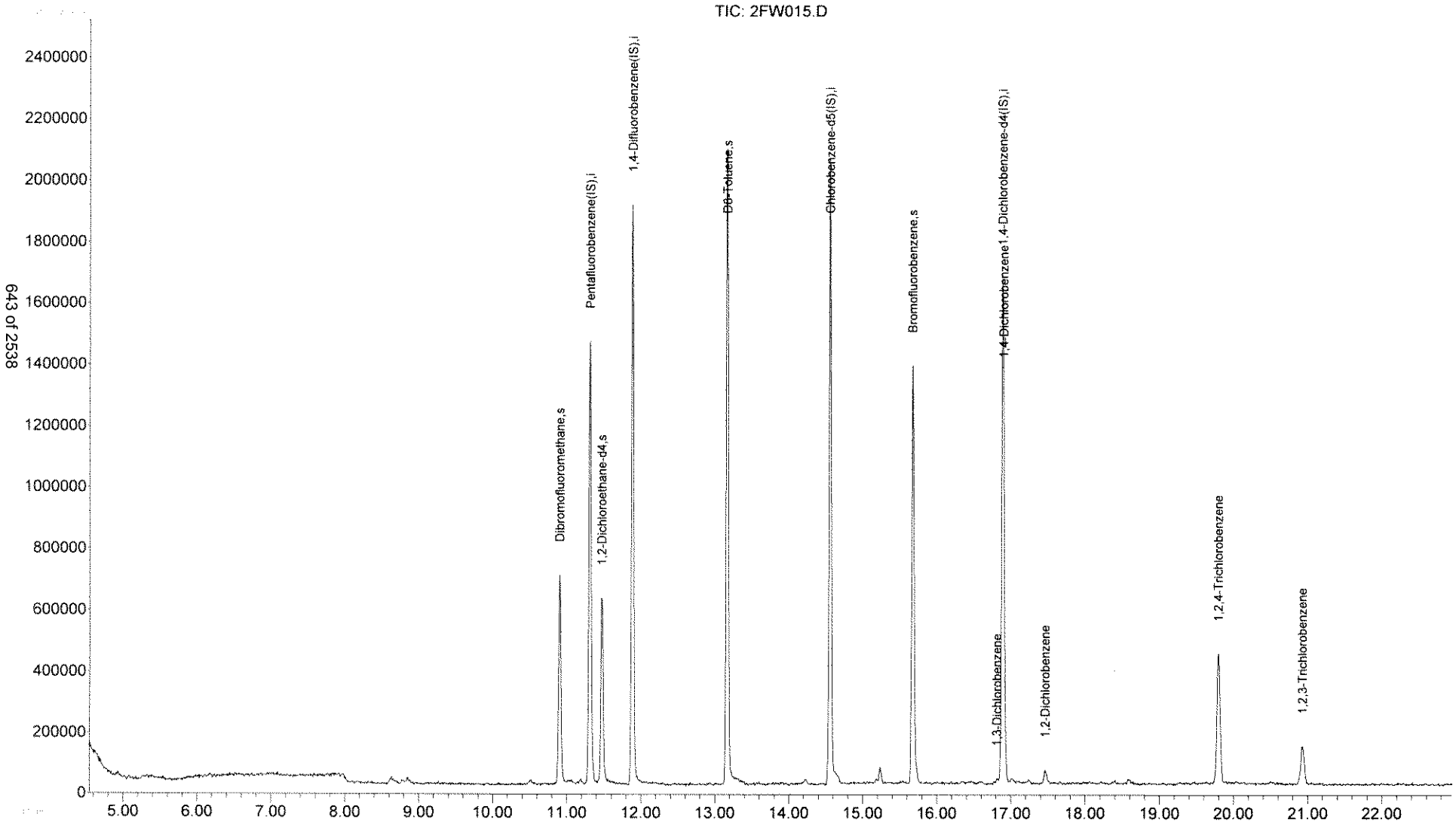
Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW015.D
Acq On : 28 Jun 2013 22:46
Sample : a303499-08
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 30 9:33 2013

Vial: 15
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 28 Jun 2013 22:46
Data File: C:\HPCHEM\1\DATA\062813\2FW015.D
Name: a303499-08
Misc:
Method: C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1301050
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FW015.D W1301050.M Mon Jul 01 13:16:13 2013

KT 07/01/13

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062813\2FW015.D Vial: 15
Acq On : 28 Jun 2013 22:46 Operator: kat
Sample : a303499-08 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

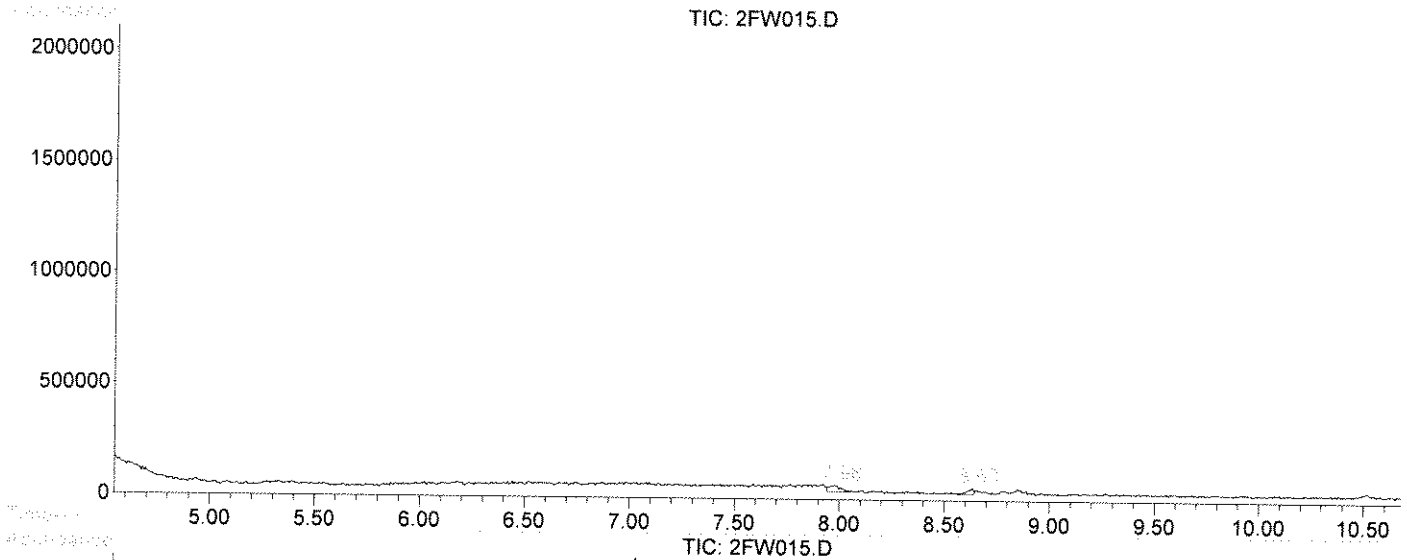
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.984	481	487	496	rVB10	28857	104850	2.42%	0.378%
2	8.635	570	579	580	rBV5	27463	58450	1.35%	0.211%
3	10.905	893	900	910	rBV	681959	1538992	35.53%	5.546%
4	11.315	951	958	968	rVV	1442446	3170253	73.19%	11.424%
5	11.471	972	980	991	rBV	605944	1389261	32.07%	5.006%
6	11.888	1031	1039	1052	rBV	1893611	3927823	90.68%	14.154%
7	13.168	1212	1220	1230	rBV	2070100	4331356	100.00%	15.608%
8	14.554	1409	1416	1438	rBV	2040037	4280647	98.83%	15.425%
9	15.233	1508	1512	1519	rVB3	53747	110143	2.54%	0.397%
10	15.671	1567	1574	1589	rVB	1361578	2969155	68.55%	10.699%
11	16.888	1738	1746	1757	rVV	1650919	4007334	92.52%	14.440%
12	17.022	1760	1765	1771	rVB10	15375	45103	1.04%	0.163%
13	17.461	1822	1827	1835	rBV4	43583	110741	2.56%	0.399%
14	19.794	2147	2157	2168	rBV2	424830	1280796	29.57%	4.615%
15	20.926	2308	2317	2326	rBV4	125486	425904	9.83%	1.535%

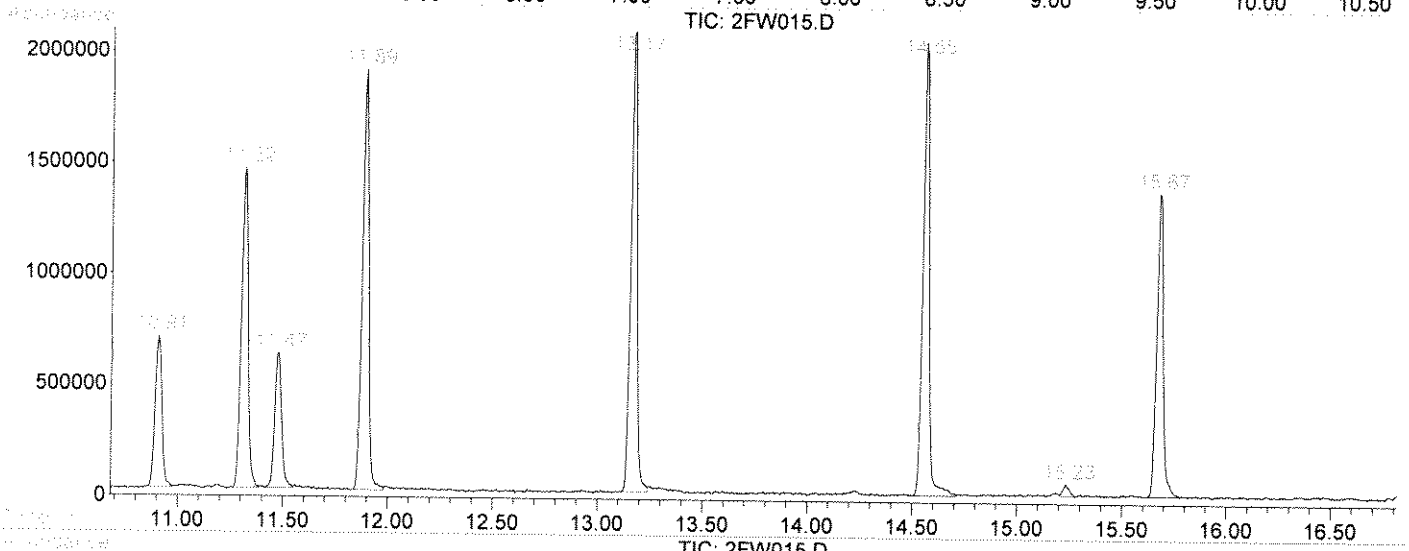
Sum of corrected areas: 27750808

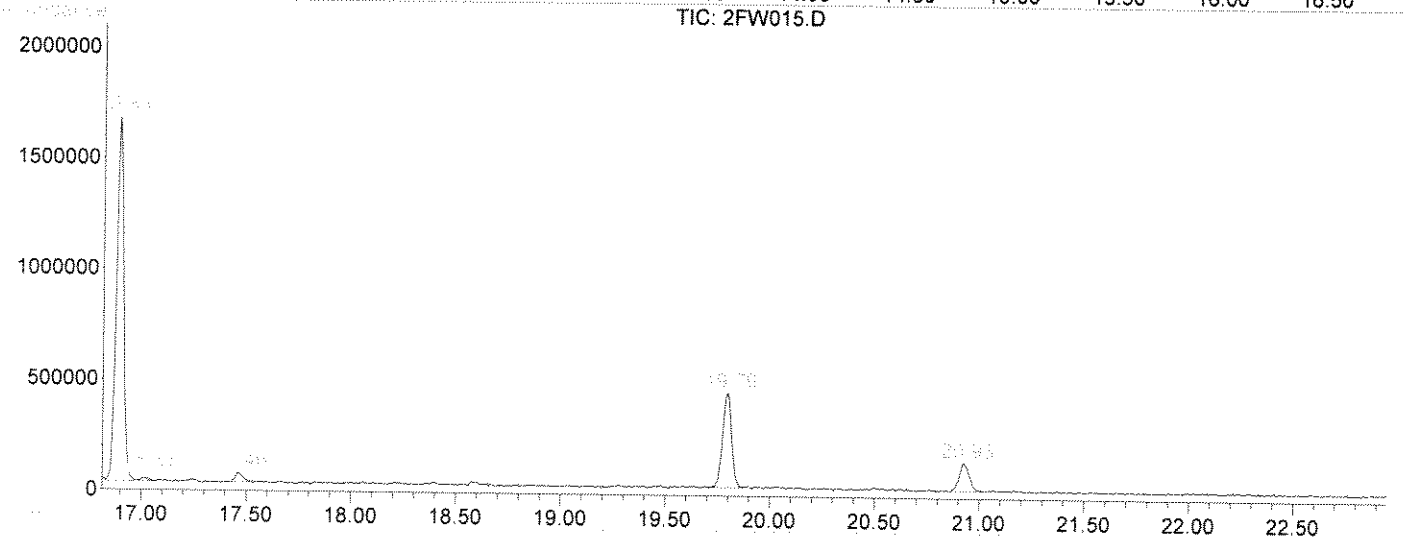
2FW015.D W1301050.M Mon Jul 01 13:16:11 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062813\2FW015.D
Operator : kat
Acquired : 28 Jun 2013 22:46 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-08
Misc Info :
Vial Number: 15
Quant File :W1301050.RES (RTE Integrator)







2FW015.D W1301050.M Mon Jul 01 13:16:12 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW016.D Vial: 16
Acq On : 28 Jun 2013 23:18 Operator: kat
Sample : a303499-13 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:35 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NP 6/30/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1137237	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1671212	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1374091	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.90	152	631167	50.00 ug/L	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	462884	32.11 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 64.22%		
44) 1,2-Dichloroethane-d4	11.48	65	483577	34.42 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 68.84%		
56) D8-Toluene	13.17	98	1523056	37.49 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 74.98%		
77) Bromofluorobenzene	15.68	95	584719	37.14 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 74.28%		

100 Surr

fic comp verify

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D. d	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D. d	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D.	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D.	
26) Propionitrile	0.00	54		N.D.	
27) 2,2-Dichloropropane	0.00	77		N.D. d	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.91	113	462884	32.11 ug/L	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW016.D Vial: 16
Acq On : 28 Jun 2013 23:18 Operator: kat
Sample : a303499-13 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:35 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.48	65	483577	34.42 ug/l	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.17	98	1523056	37.49 ug/L	99
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.68	95	584719	37.14 ug/L #	81
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
81) Pentachloroethane	0.00	167		N.D.	
83) Bromobenzene	0.00	156		N.D.	
84) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
85) 2-Chlorotoluene	0.00	91		N.D.	
86) 4-Chlorotoluene	0.00	91		N.D.	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) tert-Butylbenzene	0.00	119		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,3-Dichlorobenzene	0.00	146		N.D.	
92) 1,4-Dichlorobenzene	0.00	146		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D. d	
94) N-Butylbenzene	0.00	91		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW016.D Vial: 16
Acq On : 28 Jun 2013 23:18 Operator: kat
Sample : a303499-13 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:35 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

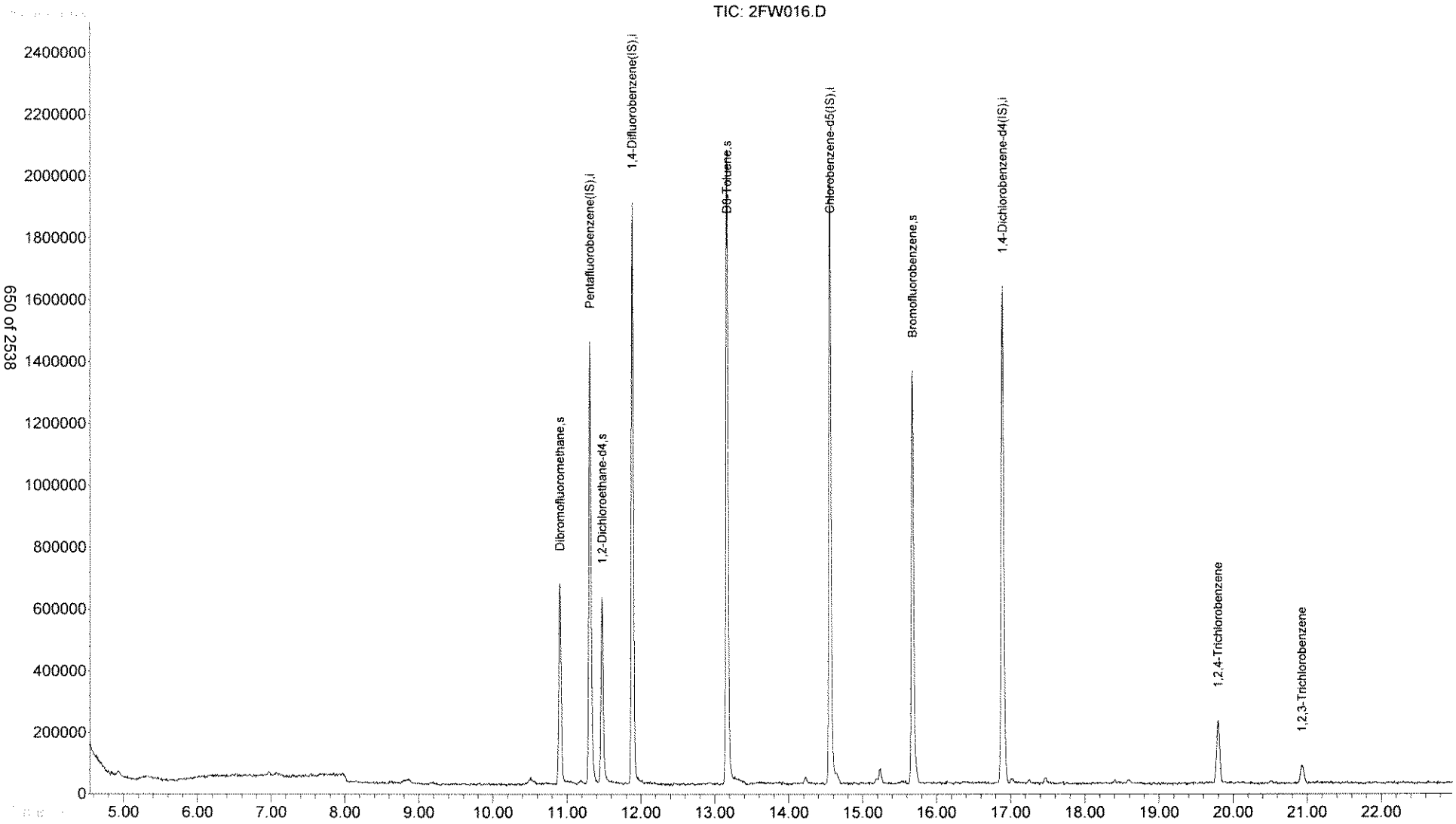
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	0.00	75		N.D. d	
96) Naphthalene	0.00	128		N.D. d	
97) 1,2,4-Trichlorobenzene	19.80	180	126976	10.96 ug/L	92
98) Hexachlorobutadiene	0.00	225		N.D.	
99) 1,2,3-Trichlorobenzene	20.93	180	40869	4.09 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW016.D Vial: 16
Acq On : 28 Jun 2013 23:18 Operator: kat
Sample : a303499-13 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:35 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 28 Jun 2013 23:18
Data File: C:\HPCHEM\1\DATA\062813\2FW016.D
Name: a303499-13
Misc:
Method: C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1301050
Library Searched: C:\DATABASE\NIST98.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FW016.D W1301050.M Mon Jul 01 13:16:26 2013

7/01/13

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062813\2FW016.D Vial: 16
Acq On : 28 Jun 2013 23:18 Operator: kat
Sample : a303499-13 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

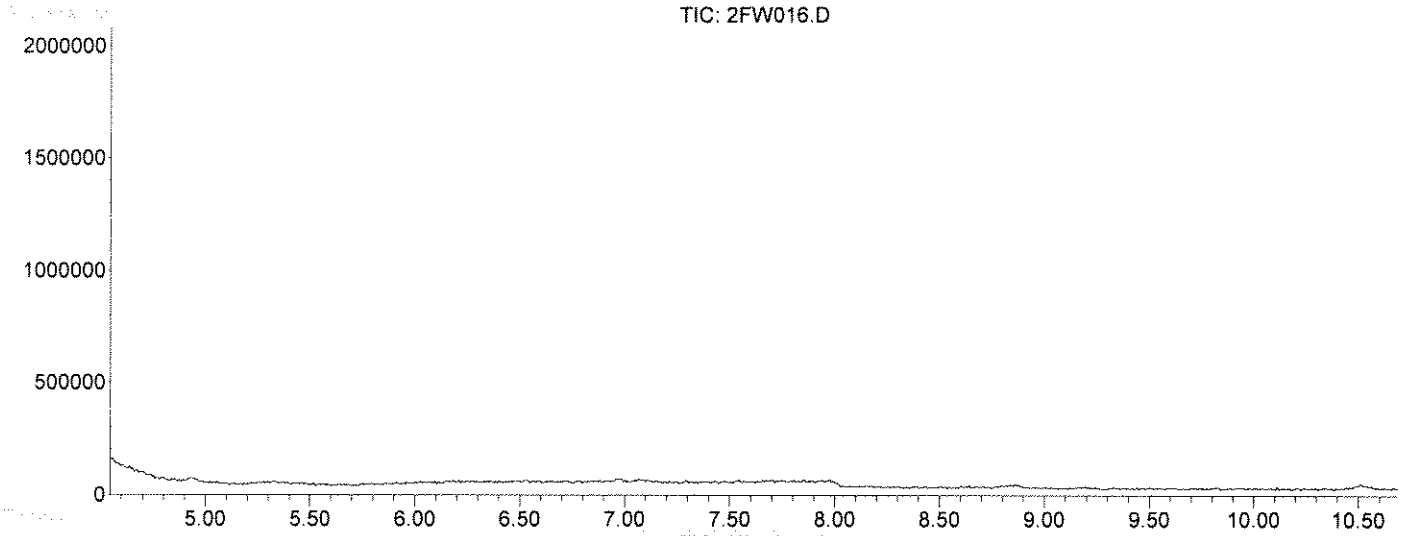
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.905	893	900	912	rBV	654874	1530573	35.71%	5.894%
2	11.315	951	958	969	rBV	1426778	3031167	70.73%	11.672%
3	11.478	973	981	992	rBV	603629	1330327	31.04%	5.123%
4	11.888	1029	1039	1049	rBV	1883412	3819198	89.12%	14.707%
5	13.168	1212	1220	1233	rBV	2056383	4285693	100.00%	16.503%
6	14.229	1365	1370	1376	rVB8	23277	54166	1.26%	0.209%
7	14.561	1409	1417	1427	rBV	1968963	4105164	95.79%	15.808%
8	15.233	1509	1512	1520	rVB2	48993	107267	2.50%	0.413%
9	15.679	1567	1575	1587	rBV	1340197	2935071	68.49%	11.302%
10	16.895	1739	1747	1760	rVB	1609307	3892717	90.83%	14.990%
11	17.468	1823	1828	1832	rBV5	21648	54747	1.28%	0.211%
12	19.795	2150	2157	2168	rBV3	203158	598325	13.96%	2.304%
13	20.926	2308	2317	2329	rVB3	63942	224180	5.23%	0.863%

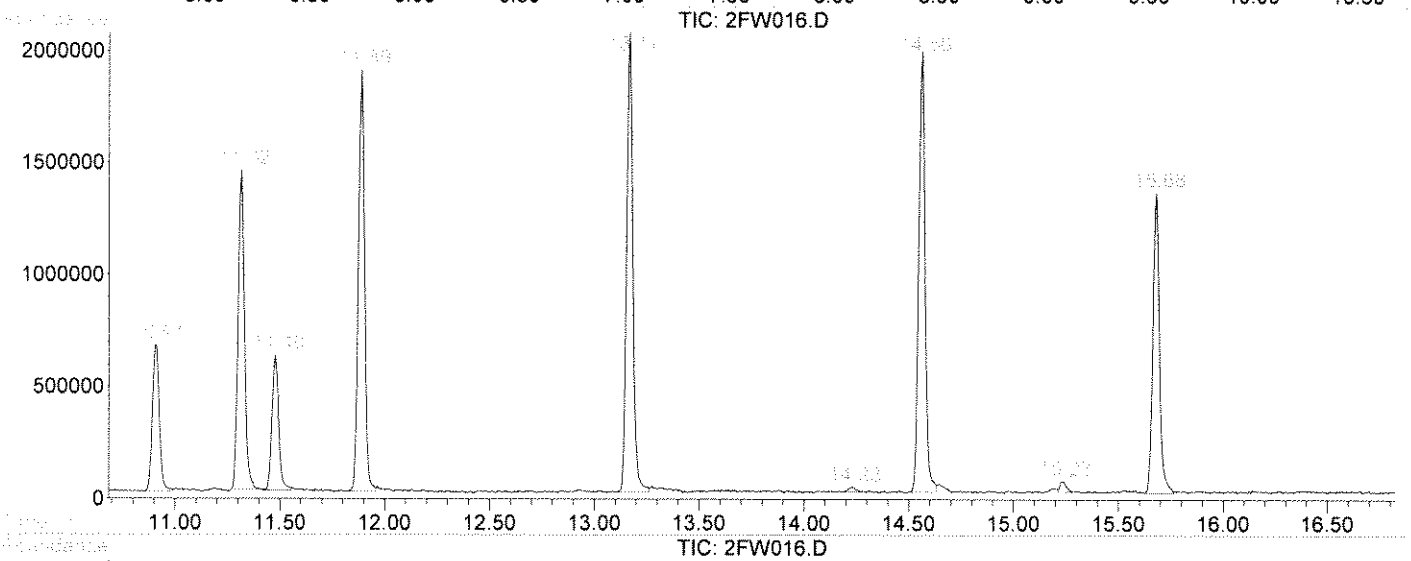
Sum of corrected areas: 25968595

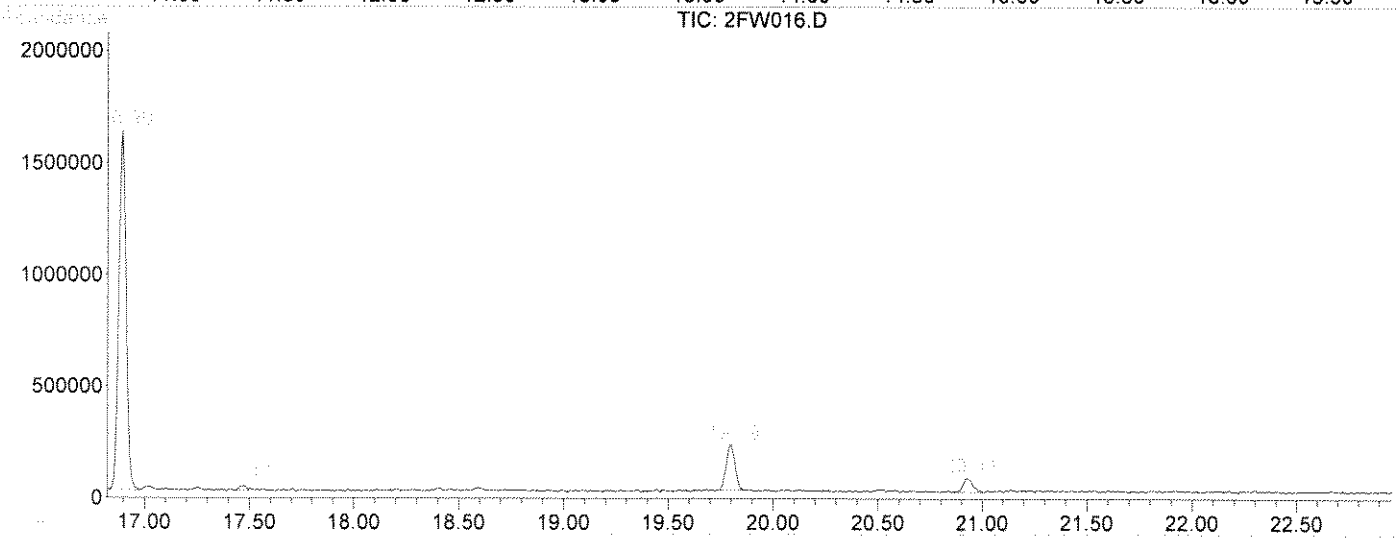
2FW016.D W1301050.M Mon Jul 01 13:16:25 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062813\2FW016.D
Operator : kat
Acquired : 28 Jun 2013 23:18 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-13
Misc Info :
Vial Number: 16
Quant File :W1301050.RES (RTE Integrator)







2FW016.D W1301050.M Mon Jul 01 13:16:26 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW017.D Vial: 17
Acq On : 28 Jun 2013 23:50 Operator: kat
Sample : a303499-16 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:36 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

NPU 6/30/13

MK
100 Surr + comp 0.04

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1229143	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1734095	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1431511	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	671064	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	470419	30.19 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 60.38%		
44) 1,2-Dichloroethane-d4	11.48	65	495780	34.01 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 68.02%		
56) D8-Toluene	13.17	98	1542990	36.60 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 73.20%		
77) Bromofluorobenzene	15.67	95	609109	37.14 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 74.28%		

100 Surr.

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D.	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D. d	
6) Chloroethane	0.00	64	N.D. d	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D. d	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D.	
15) Carbon disulfide	0.00	76	N.D.	
16) Methylene Chloride	0.00	84	N.D. d	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D.	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D.	
26) Propionitrile	0.00	54	N.D.	
27) 2,2-Dichloropropane	0.00	77	N.D.	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	10.91	113	470419 30.19 ug/L	100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D. d	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW017.D Vial: 17
Acq On : 28 Jun 2013 23:50 Operator: kat
Sample : a303499-16 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:36 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D. d	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.48	65	495780	34.01 ug/l #	93
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D.	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D. d	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.17	98	1542990	36.60 ug/L	99
59)	Toluene	0.00	92		N.D.	
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	0.00	106		N.D.	
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.67	95	609109	37.14 ug/L #	81
79)	T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80)	N-Propylbenzene	0.00	91		N.D.	
81)	Pentachloroethane	0.00	167		N.D.	
83)	Bromobenzene	0.00	156		N.D.	
84)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
85)	2-Chlorotoluene	0.00	91		N.D.	
86)	4-Chlorotoluene	0.00	91		N.D.	
87)	1,2,4-Trimethylbenzene	0.00	105		N.D.	
88)	s-Butylbenzene	0.00	105		N.D.	
89)	tert-Butylbenzene	0.00	119		N.D.	
90)	p-Isopropyltoluene	0.00	119		N.D.	
91)	1,3-Dichlorobenzene	0.00	146		N.D.	
92)	1,4-Dichlorobenzene	0.00	146		N.D. d	
93)	1,2-Dichlorobenzene	0.00	146		N.D. d	
94)	N-Butylbenzene	0.00	91		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\062813\2FW017.D Vial: 17
Acq On : 28 Jun 2013 23:50 Operator: kat
Sample : a303499-16 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:36 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

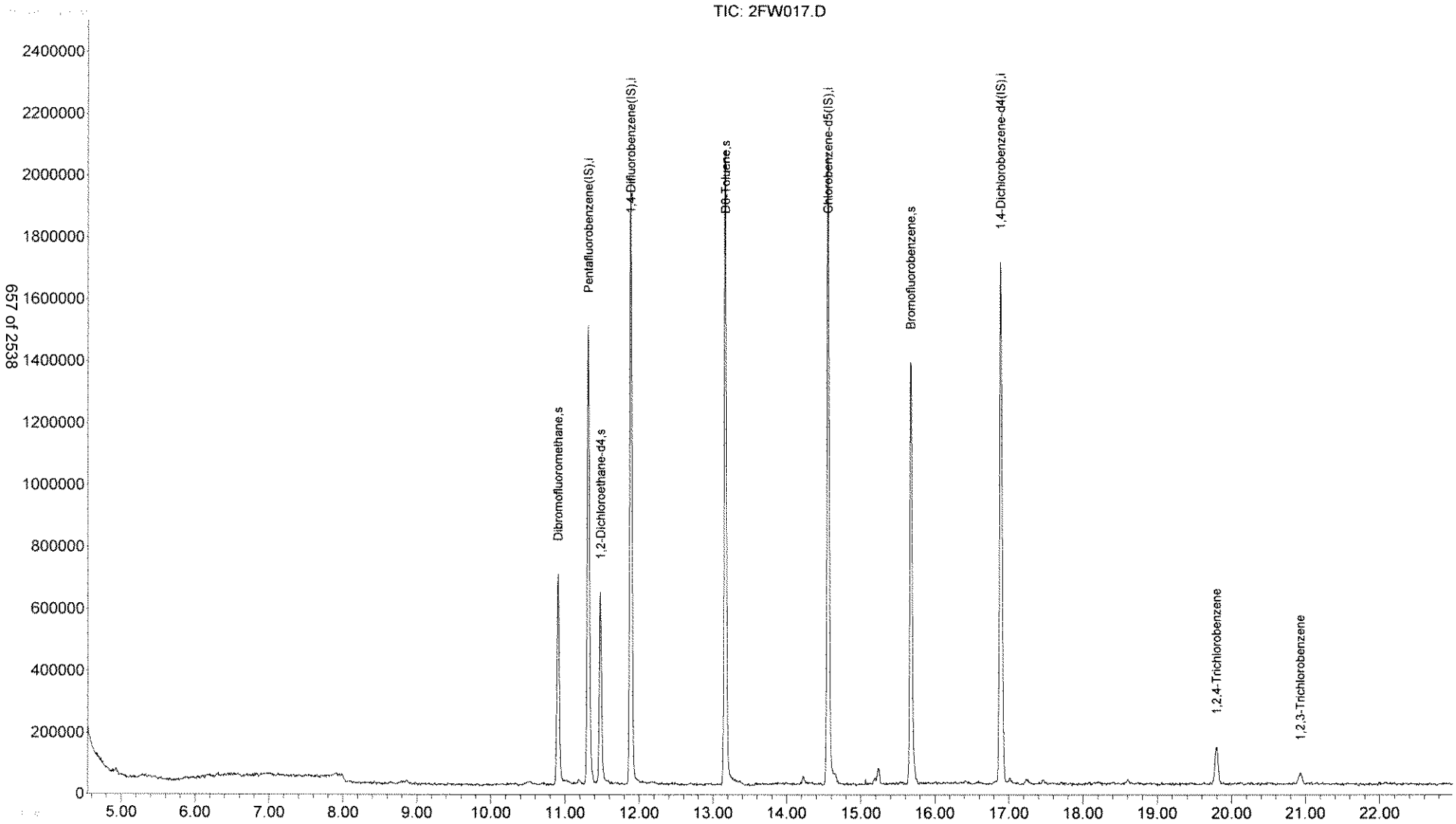
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	0.00	75		N.D. d	
96) Naphthalene	0.00	128		N.D.	
97) 1,2,4-Trichlorobenzene	19.80	180	79142	6.42 ug/L	96
98) Hexachlorobutadiene	0.00	225		N.D.	
99) 1,2,3-Trichlorobenzene	20.93	180	23384	2.20 ug/L	82

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\062813\2FW017.D Vial: 17
Acq On : 28 Jun 2013 23:50 Operator: kat
Sample : a303499-16 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 30 9:36 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Fri Jun 28 16:12:48 2013
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: kat Date Acquired: 28 Jun 2013 23:50
Data File: C:\HPCHEM\1\DATA\062813\2FW017.D
Name: a303499-16
Misc:
Method: C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title: ENCO SOPVGCMS/05;element cal 1301050
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

2FW017.D W1301050.M Mon Jul 01 13:16:37 2013

10/07/01/13

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\062813\2FW017.D Vial: 17
Acq On : 28 Jun 2013 23:50 Operator: kat
Sample : a303499-16 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

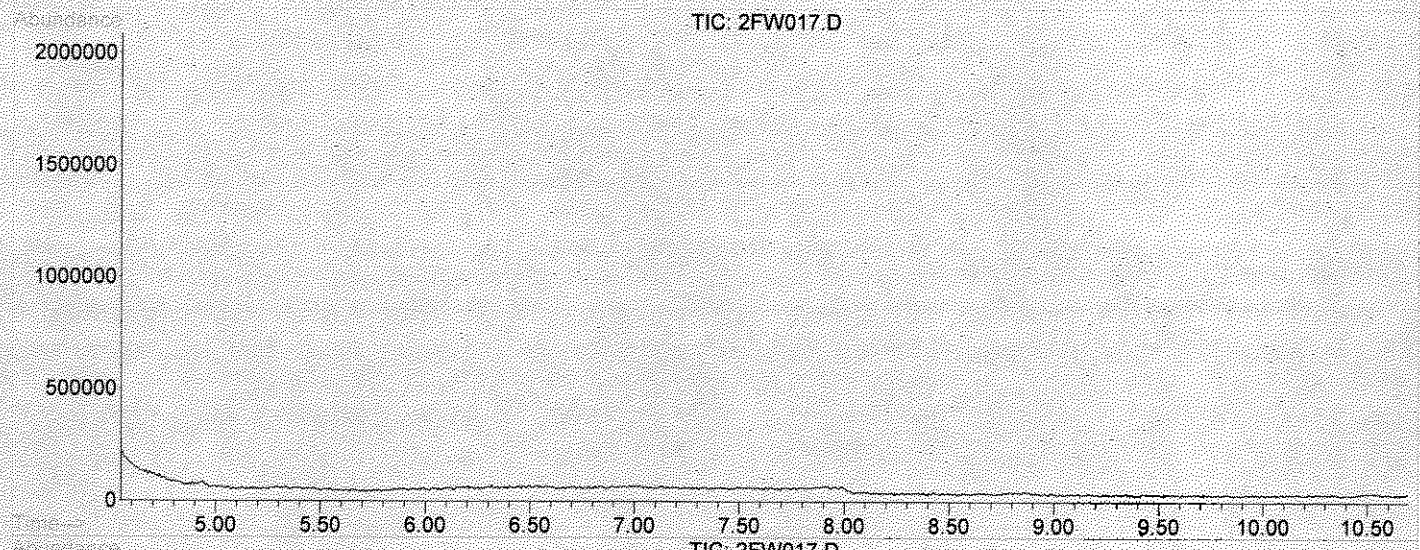
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.906	891	900	910	rBV2	685250	1559357	35.71%	5.840%
2	11.316	949	958	969	rBV	1485459	3247611	74.37%	12.163%
3	11.479	973	981	995	rBV	619823	1390426	31.84%	5.207%
4	11.889	1032	1039	1048	rBV	1956988	3970064	90.92%	14.869%
5	13.169	1212	1220	1233	rBV	2055706	4341494	99.43%	16.260%
6	14.223	1365	1369	1376	rBV9	26751	56452	1.29%	0.211%
7	14.555	1409	1416	1429	rBV	2038730	4366597	100.00%	16.354%
8	15.192	1500	1506	1508	rBV6	21320	43734	1.00%	0.164%
9	15.241	1508	1513	1520	rVB2	52862	116449	2.67%	0.436%
10	15.673	1567	1574	1590	rBV	1365204	3016971	69.09%	11.299%
11	16.889	1739	1746	1757	rVV	1682337	4042474	92.58%	15.140%
12	18.600	1981	1988	1992	rBV8	17501	45246	1.04%	0.169%
13	19.796	2149	2157	2167	rVB3	122498	379303	8.69%	1.421%
14	20.927	2309	2317	2326	rBV9	37313	124804	2.86%	0.467%

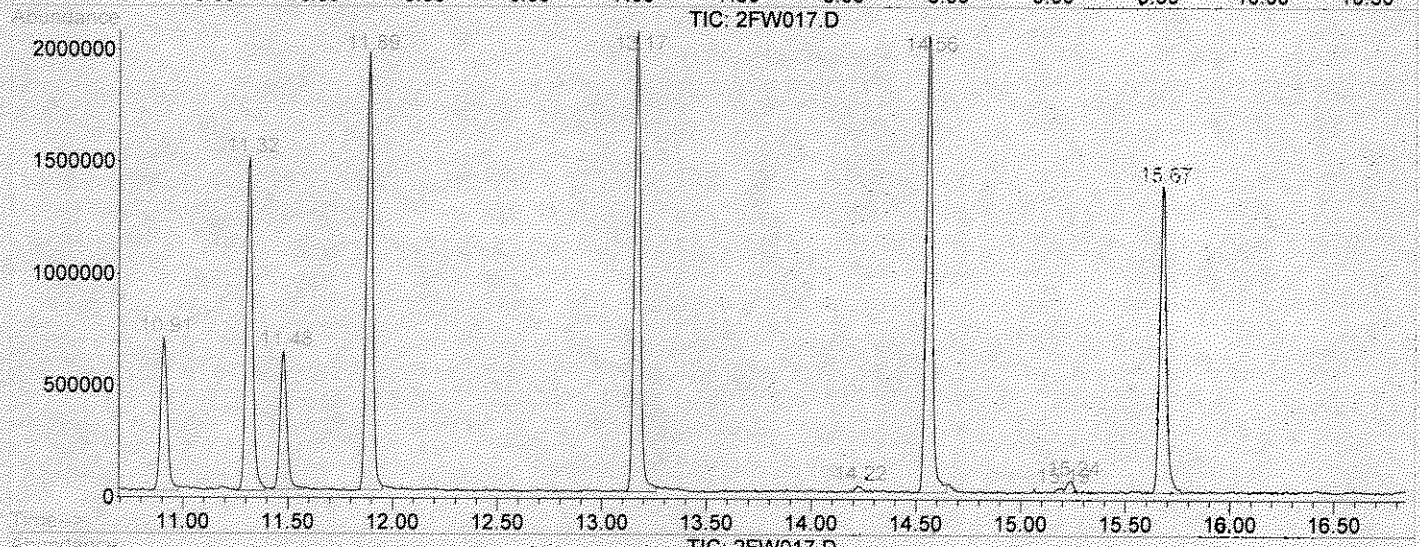
Sum of corrected areas: 26700982

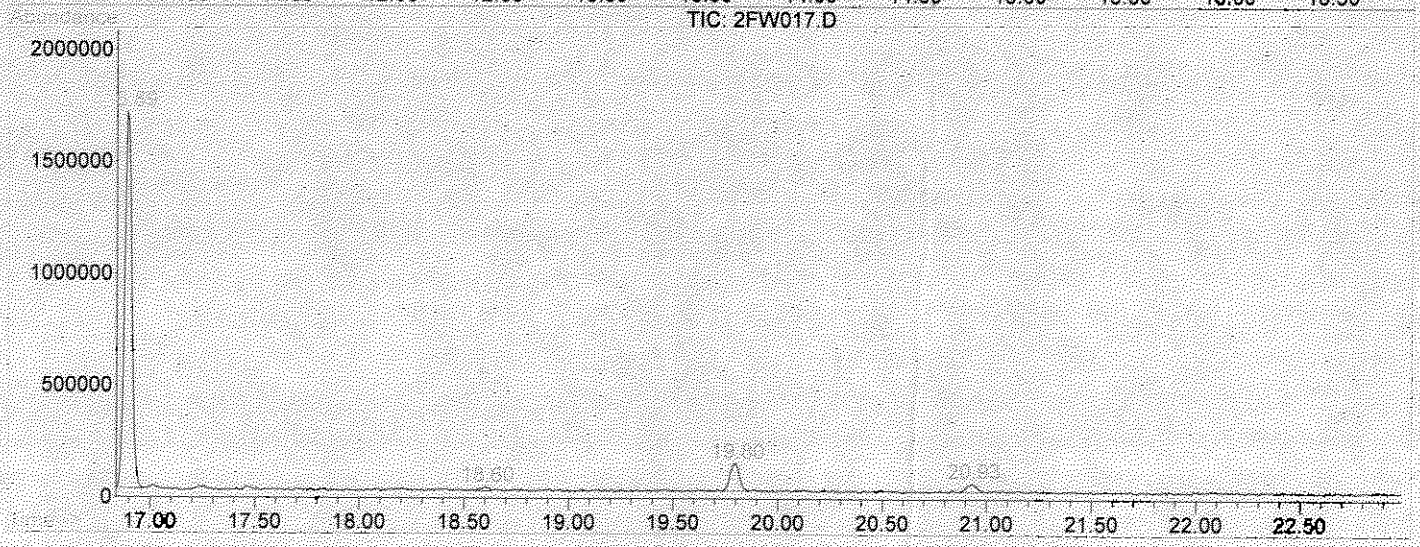
2FW017.D W1301050.M Mon Jul 01 13:16:36 2013

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\062813\2FW017.D
Operator : kat
Acquired : 28 Jun 2013 23:50 using AcqMethod 8260S
Instrument : OVGCMS2
Sample Name: a303499-16
Misc Info :
Vial Number: 17
Quant File :W1301050.RES (RTE Integrator)







ANALYSIS SEQUENCE

AA24769

Instrument: OVGCMS3

Calibration ID: 1306033

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24769-TUN1	QC		1		A3E0210		
AA24769-CCV1	QC		2		A3G0012	A3F0071	
3F30006-BS1	QC		3			A3F0071	
3F30006-BSD1	QC		4			A3F0071	
3F30006-BLK1	QC		5			A3F0071	
A303588-05RE1	8260B DOD	H	6			A3F0071	CH2M Hill, Inc. (CH025)
A303588-05RE1	8260B TCL SOM01.2 DOD	H	7			A3F0071	CH2M Hill, Inc. (CH025)
A303588-06RE1	8260B DOD	B	8			A3F0071	CH2M Hill, Inc. (CH025)
A303588-06RE1	8260B TCL SOM01.2 DOD	B	9			A3F0071	CH2M Hill, Inc. (CH025)
A303557-01RE1	8260B DOD	B	10			A3F0071	CH2M Hill, Inc. (CH025)
A303557-01RE1	8260B TCL SOM01.2 DOD	B	11			A3F0071	CH2M Hill, Inc. (CH025)
A303557-03RE1	8260B DOD	M	12			A3F0071	CH2M Hill, Inc. (CH025)
A303557-03RE1	8260B TCL SOM01.2 DOD	M	13			A3F0071	CH2M Hill, Inc. (CH025)
A303557-04RE1	8260B DOD	N	14			A3F0071	CH2M Hill, Inc. (CH025)
A303557-04RE1	8260B TCL SOM01.2 DOD	N	15			A3F0071	CH2M Hill, Inc. (CH025)
A303499-01RE1	8260B DOD	B	16			A3F0071	CH2M Hill, Inc. (CH025)
A303499-01RE1	8260B TCL SOM01.2 DOD	B	17			A3F0071	CH2M Hill, Inc. (CH025)
A303499-08RE1	8260B DOD	D	18			A3F0071	CH2M Hill, Inc. (CH025)
A303499-08RE1	8260B TCL SOM01.2 DOD	D	19			A3F0071	CH2M Hill, Inc. (CH025)
A303499-13RE1	8260B DOD	D	20			A3F0071	CH2M Hill, Inc. (CH025)
A303499-13RE1	8260B TCL SOM01.2 DOD	D	21			A3F0071	CH2M Hill, Inc. (CH025)
A303499-16RE1	8260B DOD	E	22			A3F0071	CH2M Hill, Inc. (CH025)
A303499-16RE1	8260B TCL SOM01.2 DOD	E	23			A3F0071	CH2M Hill, Inc. (CH025)
3F30006-BLK2	QC		24			A3F0071	
A303466-01RE1	TCLP 8260B DOD	C 02	25			A3F0071	CH2M Hill, Inc. (CH025)
A303466-02RE1	TCLP 8260B DOD	C 02	26			A3F0071	CH2M Hill, Inc. (CH025)
A303466-03RE1	TCLP 8260B DOD	H 02	27			A3F0071	CH2M Hill, Inc. (CH025)
A303466-04RE1	TCLP 8260B DOD	H 02	28			A3F0071	CH2M Hill, Inc. (CH025)
3F30006-BLK3	QC		29			A3F0071	
A303557-02RE1	8260B DOD	P	30			A3F0071	CH2M Hill, Inc. (CH025)
A303557-02RE1	8260B TCL SOM01.2 DOD	P	31			A3F0071	CH2M Hill, Inc. (CH025)
A303557-05RE1	8260B DOD	N	32			A3F0071	CH2M Hill, Inc. (CH025)
A303557-05RE1	8260B TCL SOM01.2 DOD	N	33			A3F0071	CH2M Hill, Inc. (CH025)

Samples Loaded By Date Data Processed By Date

ANALYSIS SEQUENCE

AA24769

Instrument: OVGCMS3

Calibration ID: 1306033

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 7/1/2013 5:27:19PM

3F30006

ENCO Orlando

Analysis
8260B DOD [EPA 8260B]
8260B TCL SOM01.2 DOD [EPA 8260B]
TCLP 8260B DOD [EPA 8260B]

Surrogate Solution
___ A3C0381 8260 surr working

Prepared using: EPA 5030B_MS

Spiking Solution
A3F0029 8260 mix full 2 working + TCL
A3G0042 8260 Acrolein 2 working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F30006-BLK1		Blank		QC							1		
3F30006-BLK2		3F25037-BLK1		QC							1		
3F30006-BLK3		3F25033-BLK1		QC							1		
3F30006-BS1		LCS		QC					A3F0029 A3G0042	2 2	1		
3F30006-BSD1		LCS Dup		QC					A3F0029 A3G0042	2 2	1		
A303466-01RE1	D	TR-2ND-IDWS-062413 C 01[MS	16-Jul-13	TCLP 8260B DOD							1		100X RR From 3F28011 by NAF
A303466-02RE1	D	TR-5TH-IDWS-062413 C 01[MS	16-Jul-13	TCLP 8260B DOD							1		100X RR From 3F28011 by NAF
A303466-03RE1	D	TR-2ND-IDWL-062413 H 02[MS	16-Jul-13	TCLP 8260B DOD							1		100X RR From 3F28011 by NAF
A303466-04RE1	D	TR-5TH-IDWL-062413 H 02[MS	16-Jul-13	TCLP 8260B DOD							1		100X RR From 3F28011 by NAF
A303499-01RE1	D	TR-TB01-061913 B[MS]	11-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o
A303499-01RE1	D	TR-TB01-061913 B[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303499-08RE1	D	TR-2ND-SB07-GW-0613 D[MS]	11-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o
A303499-08RE1	D	TR-2ND-SB07-GW-0613 D[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303499-13RE1	D	TR-2ND-SB06-GW-0613 D[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303499-13RE1	D	TR-2ND-SB06-GW-0613 D[MS]	11-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o
A303499-16RE1	D	TR-2ND-SB04-GW-0613 E[MS]	11-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o
A303499-16RE1	D	TR-2ND-SB04-GW-0613 E[MS]	11-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303557-01RE1	D	TR-TB01-062013 B[MS40	12-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o

PREPARATION BENCH SHEET

Printed: 7/1/2013 5:27:19PM

3F30006

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution
___ A3C0381 8260 surr working

Spiking Solution
A3F0029 8260 mix full 2 working + TCL
A3G0042 8260 Acrolein 2 working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303557-01RE1	D	TR-TB01-062013 B[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303557-02RE1	D	TR-2ND-MW01-0613 P[MS40	12-Jul-13	8260B DOD							1		5X RR From 3F28011 by NAP o
A303557-02RE1	D	TR-2ND-MW01-0613 P[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		5X RR From 3F28011 by NAP o
A303557-03RE1	D	TR-2ND-MW02-0613 M[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303557-03RE1	D	TR-2ND-MW02-0613 M[MS40	12-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o
A303557-04RE1	D	TR-5TH-MW01-0613 N[MS40	12-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o
A303557-04RE1	D	TR-5TH-MW01-0613 N[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303557-05RE1	D	TR-5TH-MW02-0613 N[MS40	12-Jul-13	8260B DOD							1		10X RR From 3F28011 by NAP
A303557-05RE1	D	TR-5TH-MW02-0613 N[MS40	12-Jul-13	8260B TCL SOM01.2 DOD							1		10X RR From 3F28011 by NAP
A303588-05RE1	D	TR-EB01-062113 H[MS40	15-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o
A303588-05RE1	D	TR-EB01-062113 H[MS40	15-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303588-06RE1	D	TR-TB01-062113 B[MS40	15-Jul-13	8260B TCL SOM01.2 DOD							1		1X RR From 3F28011 by NAP o
A303588-06RE1	D	TR-TB01-062113 B[MS40	15-Jul-13	8260B DOD							1		1X RR From 3F28011 by NAP o

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

PREPARATION BENCH SHEET

Printed: 7/1/2013 5:27:19PM

3F30006

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution

___ A3C0381 8260 surr working

Spiking Solution

A3F0029 8260 mix full 2 working + TCL

A3G0042 8260 Acrolein 2 working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

Inst. 2 dod

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture Lot#

Equipment Used

Sonicator _____ Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Balance _____ Daily calibration complete? [ ] Yes [ ] No [ ] NA

Other

Samples Prepared By _____ Date _____

Samples Prepared By _____ Date _____

Samples Prepared By _____ Date _____

VOLATILES GC/MS LOGBOOK

Volatiles

EPA Method 624, SW-846 Method 8260
SW-846 5030B, SW-846 5035

Tune Start Date/Time: 7-1-13 12:12
Tune End Date/Time: 7-2-13 00:12
Preventive Maintenance: purge tube
Method: 8260
Workgroup: 3F30006
Seq: AA24769

Surrogate ID: A3C0381
Internal ID: A3F0070/71
LCS Acrolein 2°: ~~A3E0489~~ A3G0042/1
LCS 8260 2°: A3F0024 72
Other Standard: BFB A3E0210/1

8260 Mix: A3F0459/1
8260 Add: A3F0196/1
8260 Ac/Ac: A3E0490/1
8260 Gases: A3F0003/1
Instrument #: 1, 2, 3, or 4
CVS A3C0012 50 ug/L

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
361001	12:12	BFB 50 ng	1 µL/5 mL	1	NA	NA	KB	AA24769-TUN	✓
361002	12:42	8260 CVS 50 ug/L	5 mL	2	NA	NA	KB	AA24769-CCV1	✓
361003	13:19	3F30006-BS1	5 mL	3	NA	NA	KB	LCS	✓
361004	13:49	3F30006-BSD1	5 mL	4	NA	NA	KB	LCS Dup	✓
361005	14:19	3F30006-BLK1	5 mL	5	NA	NA	KB	BLK	✓
361006	14:49	A303588-05RE1	5 mL	6	✓	NA	KB		✓
361007	15:19	A303588-06RE1	5 mL	7	✓	NA	KB		✓
361008	15:49	A303557-01RE1	5 mL	8	✓	NA	KB		✓
361009	16:19	A303557-03RE1	5 mL	9	✓	NA	KB		✓
361010	16:49	A303557-04RE1	5 mL	10	✓	NA	KB		✓
361011	17:19	A303499-01RE1	5 mL	11	✓	NA	KB		✓
361012	17:49	A303499-08RE1	5 mL	12	✓	NA	KB		✓
361013	18:19	A303499-13RE1	5 mL	13	✓	NA	KB		✓
361014	18:49	A303499-16RE1	5 mL	14	✓	NA	KB		✓
361015	19:19	3F30006-BLK2	50 µL/5 mL	15	TCLP	NA	KB	100x TCLP BLK 3F25037-BLK1	✓
361016	19:49	A303466-01RE1	50 µL/5 mL	16	TCLP	NA	KB	100x TCLP	✓
361017	20:19	A303466-12RE1	50 µL/5 mL	17	TCLP	NA	KB	100x TCLP	✓
361018	20:49	A303466-03RE1	50 µL/5 mL	18	TCLP	NA	KB	100x TCLP	✓
361019	21:19	A303466-04RE1	50 µL/5 mL	19	TCLP	NA	KB	100x TCLP	✓
361020	21:49	3F30006-BLK3	50 µL/5 mL	20	TCLP	NA	KB	100x TCLP BLK 3F23083-BLK1	✓

~~VOLATILES GCMS LOGBOOK~~

Volatiles

EPA Method 624, SW-846 Method 8260
~~SW-846 5030B~~, SW-846 5035

Tune Start Date/Time:	Surrogate ID:	8260 Mix :
Tune End Date/Time:	Internal ID: See p. 159	~~8260~~ Add:
Preventive Maintenance:	LCS Acrolein 2°:	8260 Ac/Ac:
Method:	LCS 8260 2°:	8260 Gases:
Workgroup:	Other Standard:	**Instrument #: 1, 2, 3, or 4**

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
361021	22:19	4303557-02RE1	1mL/5mL	21	✓	NA	KB	5x	✓
361022	22:49	4303557-05RE1	500µL/5mL	22	✓	NA	KB	10x	✓
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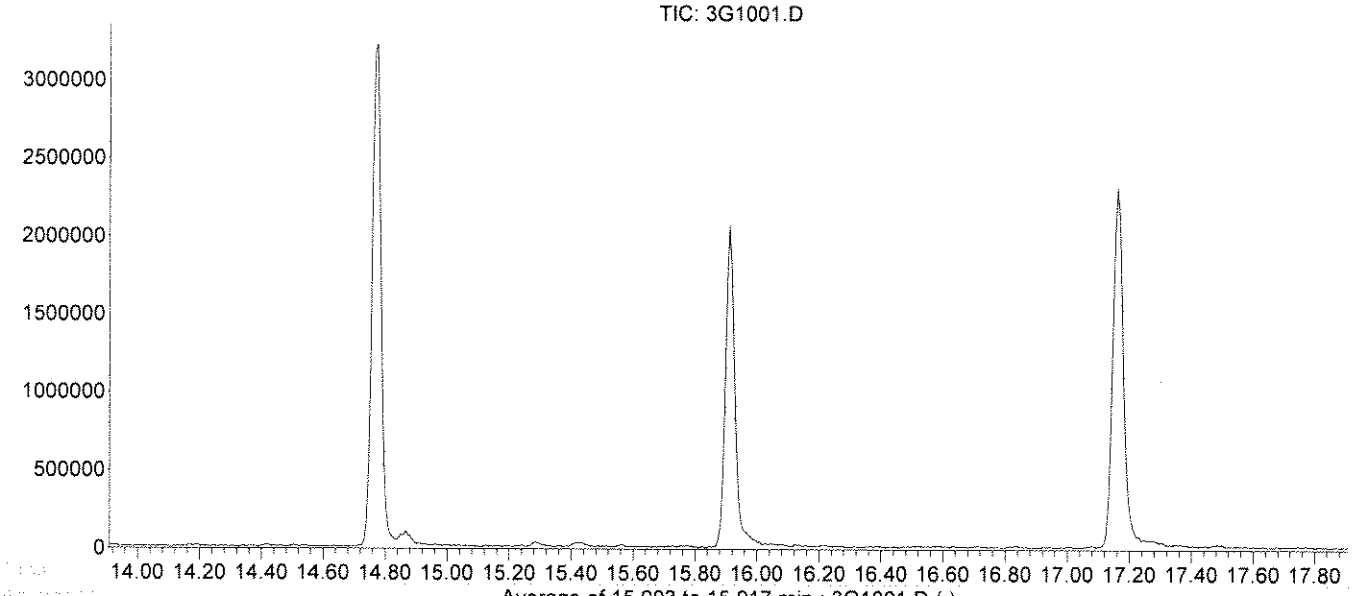
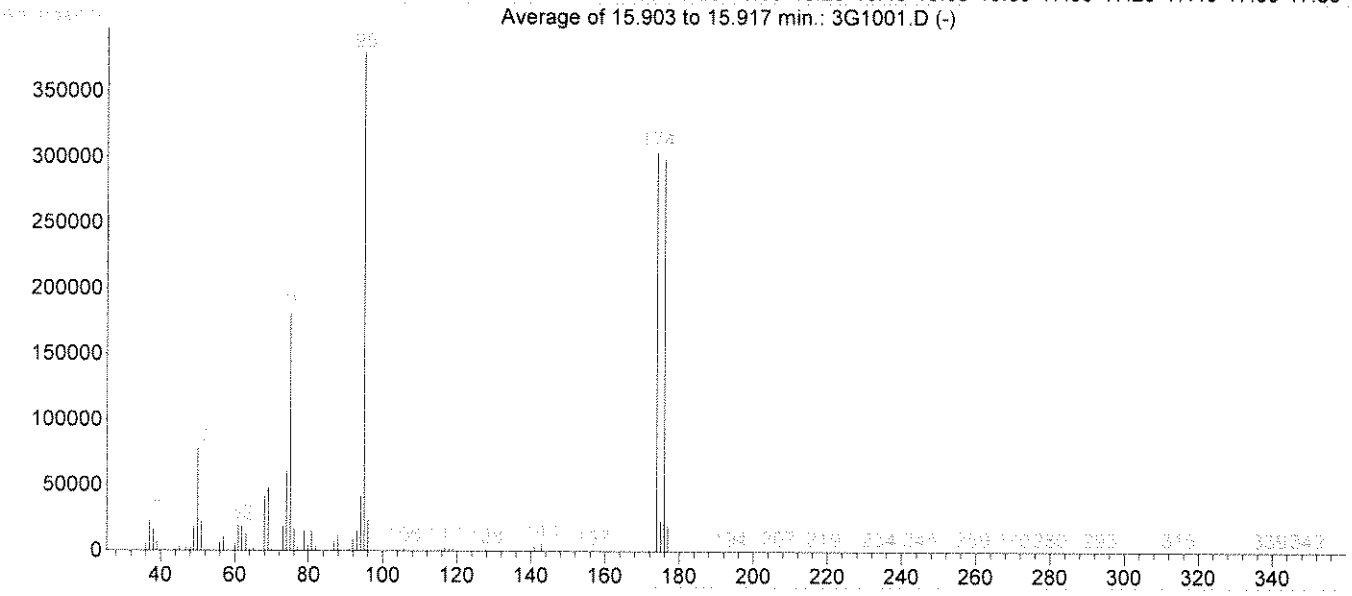
7.12.13

VB

BFB

Data File : C:\HPCHEM\1\DATA\070113\3G1001.D Vial: 1
Acq On : 1 Jul 2013 12:12 Operator: kwb
Sample : bfb 50NG Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033





AutoFind: Scans 1599, 1600, 1601; Background Corrected with Scan 1587

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	78595	PASS
75	95	30	60	47.6	180480	PASS
95	95	100	100	100.0	379221	PASS
96	95	5	9	6.2	23640	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.3	304427	PASS
175	174	5	9	7.6	23181	PASS
176	174	95	101	98.0	298261	PASS
177	176	5	9	6.5	19501	PASS

KB 7-1-13

3G1001.D W1306033.M Mon Jul 01 13:02:26 2013

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration

KP 7-1-13

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	86	0.02
2		Dichlorodifluoromethane	1.037	1.193	-15.0	101	0.00
3	**	Chloromethane	1.060	0.873	17.6	73	0.01
4	*	Vinyl Chloride	1.090	0.907	16.8	68	0.02
5		Bromomethane	0.737	0.667	9.5	87	0.02
6		Chloroethane	0.622	0.555	10.8	82	0.03
7		Trichlorofluoromethane	1.309	1.550	-18.4	99	0.02
8		Trichlorotrifluoroethane	0.888	0.806	9.2	76	0.02
9		acrolein	0.060	0.049#	18.3	64	0.01
10		Acetone	0.150	0.154	-2.7	82	0.03
11	*m	1,1-Dichloroethene	0.687	0.567	17.5	70	0.02
12		3-Chloropropene	0.351	0.299	14.8	67	0.02
13		Acetonitrile	0.055	0.044#	20.0#	74	0.02
14		Iodomethane	0.926	0.752	18.8	72	0.02
15		Carbon disulfide	2.565	2.299	10.4	76	0.02
16		Methylene Chloride	0.797	0.669	16.1	76	0.02
17		Methyl tert-butyl ether	0.878	0.981	-11.7	89	0.02
18		Acrylonitrile	0.159	0.133	16.4	68	0.02
19		T-1,2-Dichloroethene	0.694	0.635	8.5	73	0.02
20		Isopropyl Ether	1.959	2.037	-4.0	77	0.02
21		C-1,2-Dichloroethene	0.722	0.670	7.2	74	0.02
22	**	1,1-Dichloroethane	1.257	1.145	8.9	79	0.02
23		Vinyl Acetate	1.321	1.214	8.1	69	0.02
24		Chloroprene	0.821	0.963	-17.3	89	0.02
25		2-Butanone	0.038	0.031#	18.4	64	0.02
26		Propionitrile	0.059	0.048#	18.6	67	0.02
27		2,2-Dichloropropane	0.861	1.032	-19.9	101	0.02
28		Methacrylonitrile	0.192	0.178	7.3	75	0.02
29	*	Chloroform	1.277	1.316	-3.1	90	0.02
30	s	Dibromofluoromethane	0.783	0.710	9.3	99	0.02
31		Dibromofluoromethane	0.783	0.710	9.3	99	0.02
32		Bromochloromethane	0.403	0.335	16.9	73	0.01
33		1,1,1-Trichloroethane	0.984	1.177	-19.6	103	0.02
34		1,1-Dichloropropene	0.786	0.892	-13.5	84	0.02
35		Diethyl ether	0.551	0.445	19.2	70	0.02
36		Methyl Acetate	0.078	0.066#	15.4	74	0.02
37		Cyclohexane	1.082	1.066	1.5	75	0.02
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	85	0.02
39		Methyl Cyclohexane	0.614	0.610	0.7	87	0.02
40		Carbon Tetrachloride	0.545	0.649	-19.1	105	0.02
41		1,2-Dichloroethane	0.490	0.565	-15.3	101	0.02
42	m	Benzene	1.514	1.242	18.0	69	0.02
43		Isobutyl Alcohol	0.013	0.012#	7.7	72	0.02
44	s	1,2-Dichloroethane-d4	0.401	0.411	-2.5	117	0.02
45		1,2-Dichloroethane-d4	0.401	0.411	-2.5	117	0.00
46	m	Trichloroethene	0.466	0.380	18.5	73	0.02
47	*	1,2-Dichloropropane	0.409	0.329	19.6	73	0.02
48		Methyl Methacrylate	0.075	0.062#	17.3	67	0.02
49		1,4-Dioxane	0.002	0.002#	0.0	82	0.02
50		Bromodichloromethane	0.534	0.564	-5.6	94	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.261	0.236	9.6	80	0.02
52		4-Methyl-2-Pentanone	0.034	0.033#	2.9	92	0.03
53		2-Chloroethyl vinyl ether	0.004	0.004#	0.0	98	0.01
54		2-Hexanone	0.177	0.149	15.8	71	0.03
55		C-1,3-Dichloropropene	0.558	0.579	-3.8	81	0.02
56	s	D8-Toluene	1.220	1.167	4.3	97	0.02
57		D8-Toluene	1.220	1.167	4.3	97	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	84	0.02
59	m*	Toluene	1.008	0.941	6.6	74	0.02
60		Ethyl Methacrylate	0.388	0.335	13.7	67	0.02
61		T-1,3-Dichloropropene	0.508	0.551	-8.5	89	0.02
62		1,1,2-Trichloroethane	0.374	0.310	17.1	71	0.02
63		1,3-Dichloropropane	0.622	0.535	14.0	75	0.02
64		Tetrachloroethene	0.372	0.355	4.6	79	0.02
65		Dibromochloromethane	0.453	0.438	3.3	82	0.02
66		1,2-Dibromoethane	0.392	0.365	6.9	81	0.02
67	**m	Chlorobenzene	1.350	1.106	18.1	71	0.02
68		1,1,1,2-Tetrachloroethane	0.443	0.443	0.0	86	0.02
69	*	Ethylbenzene	0.541	0.587	-8.5	83	0.02
70		m-xylene & p-xylene	0.749	0.714	4.7	76	0.02
71		O-Xylene	0.661	0.644	2.6	75	0.02
72	**	Bromoform	0.302	0.267	11.6	78	0.02
73		Styrene	1.118	1.122	-0.4	75	0.02
74		Isopropylbenzene	1.752	1.804	-3.0	76	0.02
75		1,2,3-Trichloropropane	0.448	0.380	15.2	73	0.02
76	**	1,1,2,2-Tetrachloroethane	0.485	0.451	7.0	83	0.02
77	s	Bromofluorobenzene	0.522	0.534	-2.3	107	0.02
78		Bromofluorobenzene	0.522	0.534	-2.3	107	0.01
79		T-1,4-dichloro-2-butene	0.069	0.083#	-20.3#	100	0.02
80		N-Propylbenzene	2.109	2.062	2.2	75	0.02
81	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	82	0.02
82		Bromobenzene	1.072	0.948	11.6	71	0.02
83		1,3,5-Trimethylbenzene	2.912	3.417	-17.3	87	0.02
84		2-Chlorotoluene	2.834	2.731	3.6	77	0.02
85		4-Chlorotoluene	2.639	2.644	-0.2	75	0.02
86		1,2,4-Trimethylbenzene	2.844	3.327	-17.0	87	0.02
87		s-Butylbenzene	3.995	4.046	-1.3	73	0.02
88		tert-Butylbenzene	2.599	2.689	-3.5	76	0.02
89		p-Isopropyltoluene	2.826	3.262	-15.4	85	0.02
90		1,3-Dichlorobenzene	1.998	1.627	18.6	69	0.02
91		1,4-Dichlorobenzene	1.987	1.717	13.6	72	0.02
92		1,2-Dichlorobenzene	1.781	1.464	17.8	68	0.02
93		N-Butylbenzene	2.838	3.203	-12.9	83	0.02
94		DBCP	0.116	0.102	12.1	77	0.02
95		Naphthalene	1.823	1.560	14.4	76	0.03
96		1,2,4-Trichlorobenzene	1.081	1.008	6.8	78	0.02
97		Hexachlorobutadiene	0.617	0.621	-0.6	87	0.03
98		1,2,3-Trichlorobenzene	0.937	0.815	13.0	71	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:56 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

VS 7-1-13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1461678m	50.00 ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	2446570m	50.00 ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	2154855m	50.00 ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.16	152	1006281m	50.00 ug/L	0.02
System Monitoring Compounds					
30) Dibromofluoromethane	11.09	113	1038473	45.39 ug/L	0.02
Spiked Amount 50.000	Range 53 - 146		Recovery = 90.78%		
44) 1,2-Dichloroethane-d4	11.67	65	1005721	51.23 ug/l	0.02
Spiked Amount 50.000	Range 45 - 174		Recovery = 102.46%		
56) D8-Toluene	13.35	98	2856329	47.84 ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 95.68%		
77) Bromofluorobenzene	15.91	95	1151348	51.22 ug/L	0.02
Spiked Amount 50.000	Range 41 - 142		Recovery = 102.44%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.98	85	1743397	57.49 ug/L	91
3) Chloromethane	5.54	50	1276626	41.20 ug/L	98
4) Vinyl Chloride	5.78	62	1326418	41.63 ug/L	98
5) Bromomethane	6.59	94	975020	45.25 ug/L	86
6) Chloroethane	6.85	64	811169	44.62 ug/L	96
7) Trichlorofluoromethane	7.15	101	2265666	59.20 ug/L	96
8) Trichlorotrifluoroethane	8.11	101	1178733	45.43 ug/L	78
9) acrolein	8.62	56	711670	408.89 ug/L	95
10) Acetone	9.06	43	224771	51.36 ug/L	99
11) 1,1-Dichloroethene	8.08	96	829465	41.31 ug/L	77
12) 3-Chloropropene	8.82	76	436990	42.64 ug/L	57
13) Acetonitrile	9.71	41	648030	400.35 ug/L	77
14) Iodomethane	8.35	142	1099622	40.64 ug/L	85
15) Carbon disulfide	8.17	76	3360651	44.81 ug/L	95
16) Methylene Chloride	8.98	84	977254	41.95 ug/L	84
17) Methyl tert-butyl ether	9.32	73	1434610	55.92 ug/L	92
18) Acrylonitrile	10.08	53	1943237	418.00 ug/L	95
19) T-1,2-Dichloroethene	9.21	96	927615	45.72 ug/L	76
20) Isopropyl Ether	9.77	45	2977092	51.99 ug/L #	92
21) C-1,2-Dichloroethene	10.64	96	978734	46.36 ug/L	87
22) 1,1-Dichloroethane	10.01	63	1674087	45.55 ug/L	95
23) Vinyl Acetate	10.23	43	1774173	45.93 ug/L	95
24) Chloroprene	9.97	53	1407142	58.65 ug/L	99
25) 2-Butanone	11.21	72	45136	40.73 ug/L	73
26) Propionitrile	11.55	54	694616	402.80 ug/L	100
27) 2,2-Dichloropropane	10.76	77	1508577	59.95 ug/L	93
28) Methacrylonitrile	11.57	67	2598355	463.79 ug/L	99
29) Chloroform	10.90	83	1922855	51.51 ug/L	97
31) Dibromofluoromethane	11.09	113	1038473	45.39 ug/L	100
32) Bromochloromethane	10.85	128	490093	41.56 ug/L	78
33) 1,1,1-Trichloroethane	11.16	97	1720741	59.83 ug/L	92
34) 1,1-Dichloropropene	11.27	75	1304084	56.73 ug/L	96
35) Diethyl ether	7.71	59	650156	40.40 ug/l	93
36) Methyl Acetate	9.19	74	96806	42.48 ug/l	83
37) Cyclohexane	10.87	56	1557480	49.26 ug/l #	78

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D
Acq On : 1 Jul 2013 12:42
Sample : 8260 CVS 50 UG/L
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 1 15:56 2013

Vial: 2
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	12.10	55	1492089	49.69 ug/l #	79
40) Carbon Tetrachloride	11.09	117	1587788	59.58 ug/L	97
41) 1,2-Dichloroethane	11.74	62	1382817	57.67 ug/L	96
42) Benzene	11.54	78	3039236	41.01 ug/L #	68
43) Isobutyl Alcohol	11.60	43	566613	880.72 ug/L #	29
45) 1,2-Dichloroethane-d4	11.67	65	1005721	51.23 ug/l	99
46) Trichloroethene	12.08	130	928633	40.71 ug/L	88
47) 1,2-Dichloropropane	12.60	63	805353	40.26 ug/L	98
48) Methyl Methacrylate	12.67	100	150891	41.27 ug/L	56
49) 1,4-Dioxane	12.80	88	102315	864.09 ug/L	84
50) Bromodichloromethane	12.62	83	1378878	52.76 ug/L	97
51) Dibromomethane	12.52	93	578240	45.34 ug/L	91
52) 4-Methyl-2-Pentanone	13.69	100	81309	49.52 ug/L	60
53) 2-Chloroethyl vinyl ether	13.18	63	9266	51.18 ug/L	88
54) 2-Hexanone	14.40	43	363319	41.83 ug/L	94
55) C-1,3-Dichloropropene	13.18	75	1416634	51.85 ug/L	91
57) D8-Toluene	13.35	98	2856329	47.84 ug/L	91
59) Toluene	13.40	92	2026661	46.65 ug/L	99
60) Ethyl Methacrylate	13.78	69	721593	43.17 ug/L #	86
61) T-1,3-Dichloropropene	13.74	75	1186887	54.17 ug/L	86
62) 1,1,2-Trichloroethane	13.91	97	667383	41.40 ug/L	91
63) 1,3-Dichloropropane	14.17	76	1153837	43.02 ug/L	97
64) Tetrachloroethene	13.76	164	764151	47.64 ug/L	95
65) Dibromochloromethane	14.10	129	942957	48.33 ug/L	96
66) 1,2-Dibromoethane	14.36	107	786195	46.52 ug/L	98
67) Chlorobenzene	14.79	112	2383404	40.95 ug/L	99
68) 1,1,1,2-Tetrachloroethane	14.82	131	954974	49.99 ug/L	93
69) Ethylbenzene	14.75	106	1264141	54.25 ug/L	85
70) m-xylene & p-xylene	14.87	106	3077479	95.39 ug/L	93
71) O-Xylene	15.29	106	1388554	48.76 ug/L	94
72) Bromoform	15.44	173	575166	44.18 ug/L	98
73) Styrene	15.33	104	2417116	50.18 ug/L	92
74) Isopropylbenzene	15.56	105	3887765	51.48 ug/L	99
75) 1,2,3-Trichloropropane	16.24	75	818885	42.45 ug/L	94
76) 1,1,2,2-Tetrachloroethane	16.04	83	972394	46.57 ug/L	99
78) Bromofluorobenzene	15.91	95	1151348	51.22 ug/L #	85
79) T-1,4-dichloro-2-butene	16.23	53	177823	59.43 ug/L	11
80) N-Propylbenzene	15.97	91	4442648	48.88 ug/L	94
82) Bromobenzene	16.07	156	954385	44.24 ug/L	81
83) 1,3,5-Trimethylbenzene	16.13	105	3438539	58.68 ug/L	100
84) 2-Chlorotoluene	16.21	91	2747976	48.18 ug/L	92
85) 4-Chlorotoluene	16.38	91	2660109	50.08 ug/L	99
86) 1,2,4-Trimethylbenzene	16.57	105	3348304	58.49 ug/L	97
87) s-Butylbenzene	16.71	105	4071055	50.63 ug/L	97
88) tert-Butylbenzene	16.52	119	2705829	51.74 ug/L	90
89) p-Isopropyltoluene	16.83	119	3282885	57.73 ug/L	96
90) 1,3-Dichlorobenzene	17.08	146	1637094	40.71 ug/L	91
91) 1,4-Dichlorobenzene	17.18	146	1727377	43.20 ug/L	96
92) 1,2-Dichlorobenzene	17.75	146	1473009	41.10 ug/L	93
93) N-Butylbenzene	17.36	91	3222865	56.42 ug/L	99
94) DBCP	18.93	75	102279	43.87 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:56 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.92	128	1569515	42.79 ug/L	100
96) 1,2,4-Trichlorobenzene	20.16	180	1014255	46.64 ug/L	98
97) Hexachlorobutadiene	19.99	225	625302	50.32 ug/L	96
98) 1,2,3-Trichlorobenzene	21.36	180	819641	43.46 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

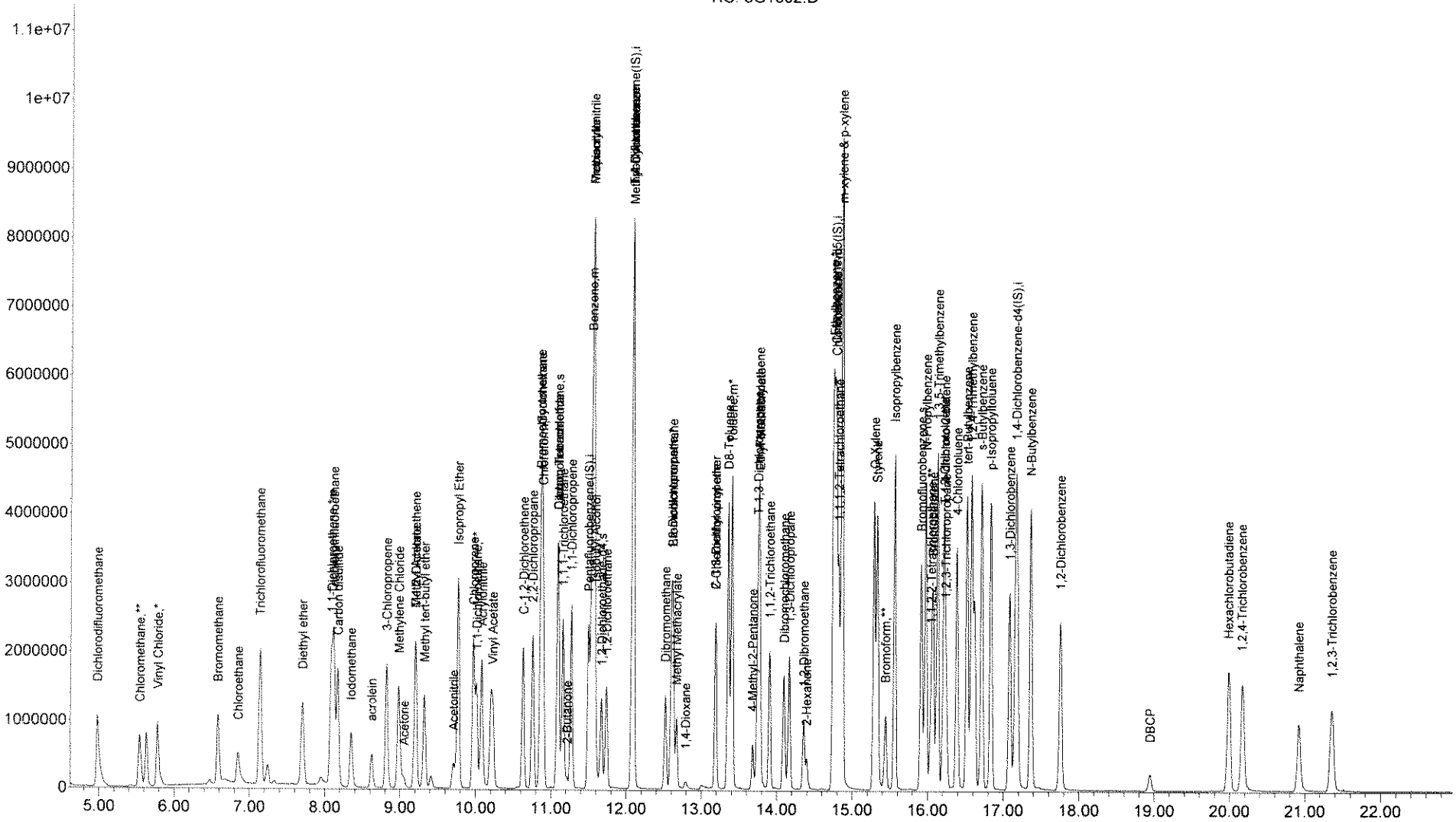
Data File : C:\HPCHEM\1\DATA\070113\3G1002.D
Acq On : 1 Jul 2013 12:42
Sample : 8260 CVS 50 UG/L
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 1 15:56 2013

Vial: 2
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00

Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

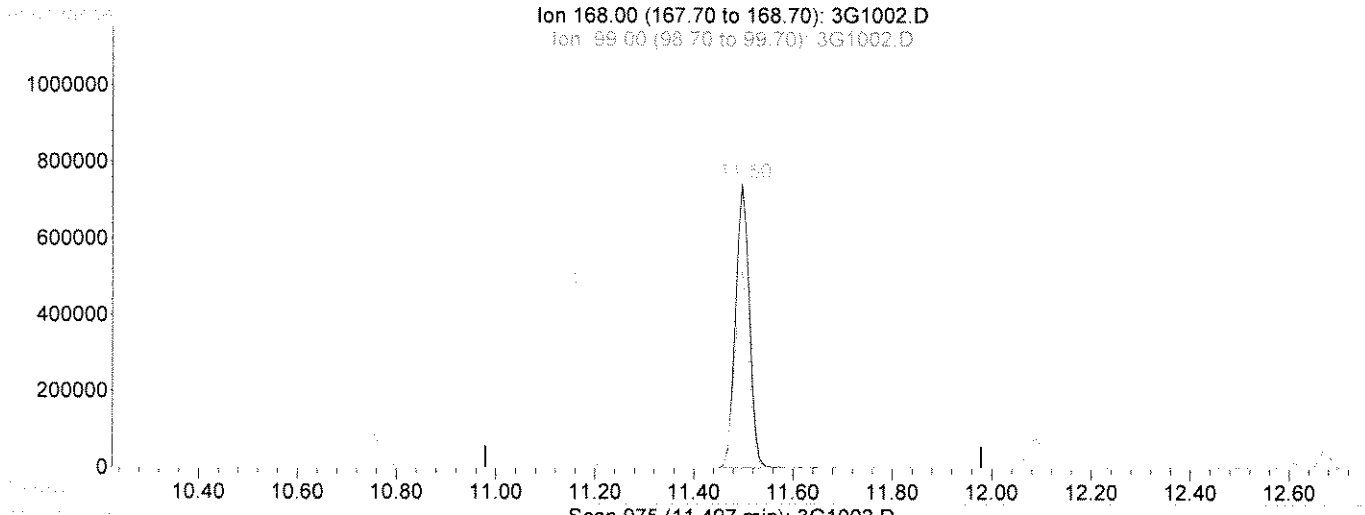
TIC: 3G1002.D

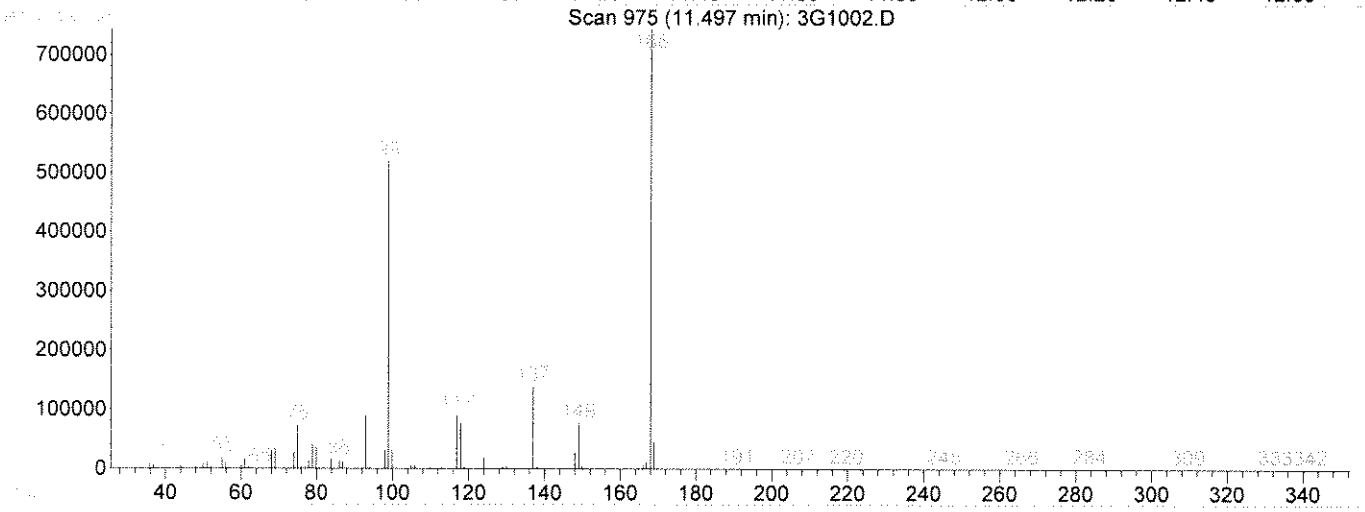


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:47 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(1) Pentafluorobenzene(IS) (i)

11.50min 50.00ug/L

response 1455434

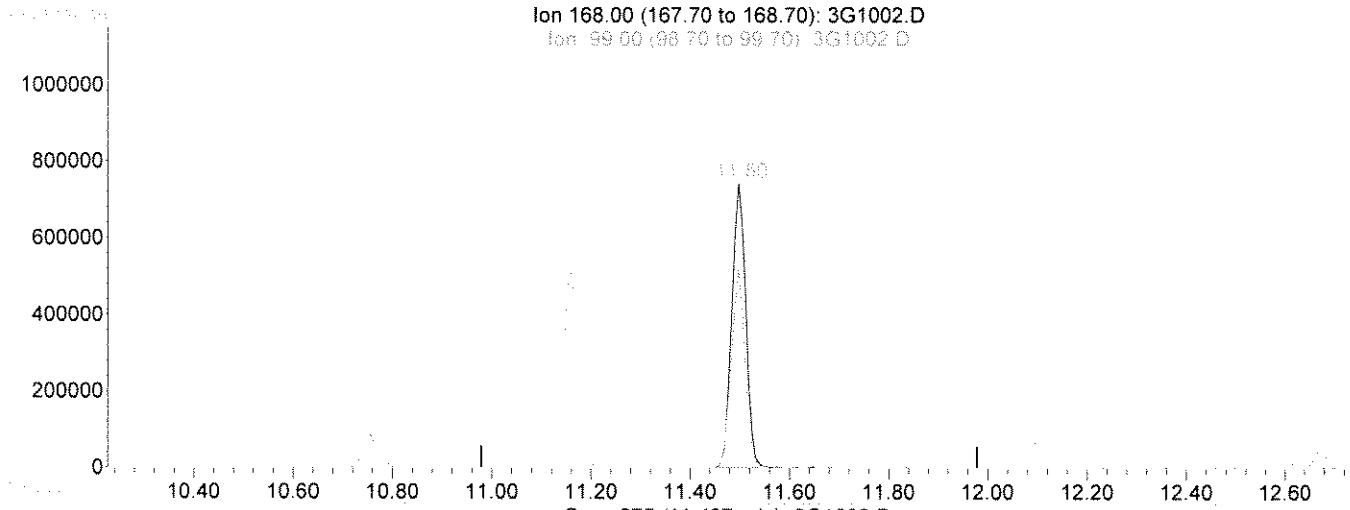
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	68.29
169.00	6.30	6.50
0.00	0.00	0.00

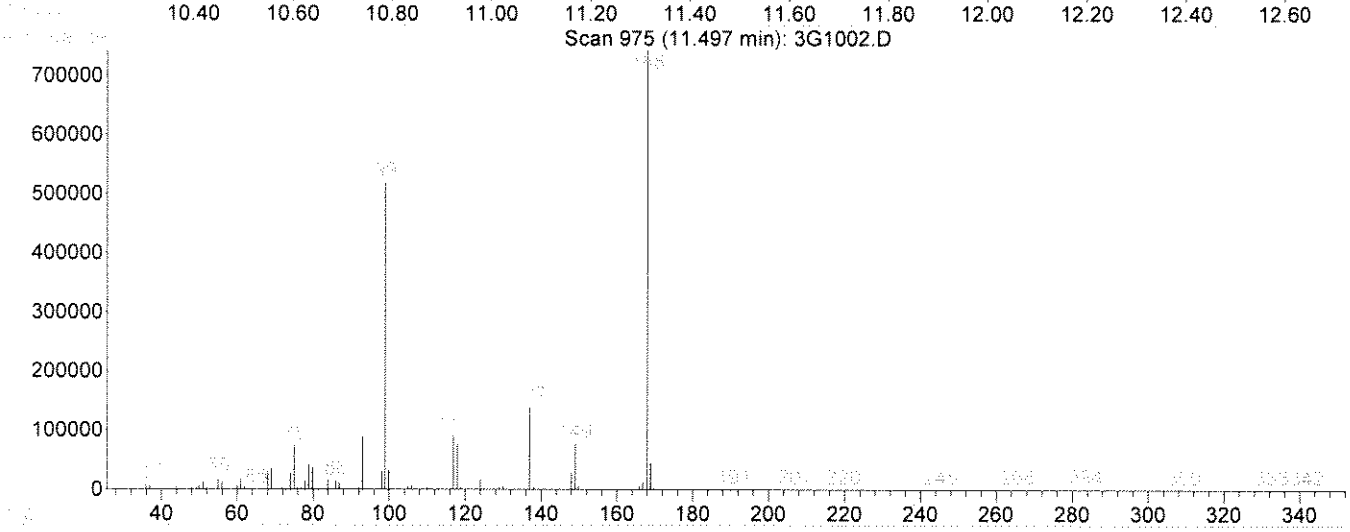
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KB 7-1-13
Review by/Date: 07.02.13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(1) Pentafluorobenzene(IS) (i)

11.50min 50.00ug/L m

response 1461678

Ion	Exp%	Act%
168.00	100	100
99.00	46.30	68.00
169.00	6.30	6.47
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[✓] ISTD reintegration

[ ] Other:

Review by/Date US 7-1-13

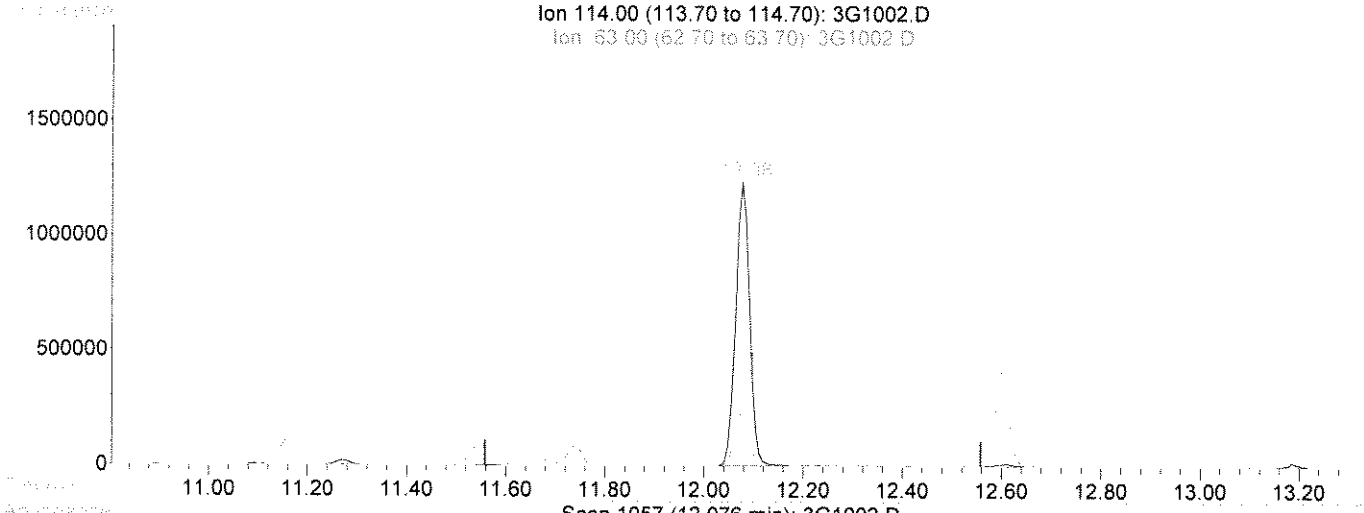
Review by/Date: 07.02.13

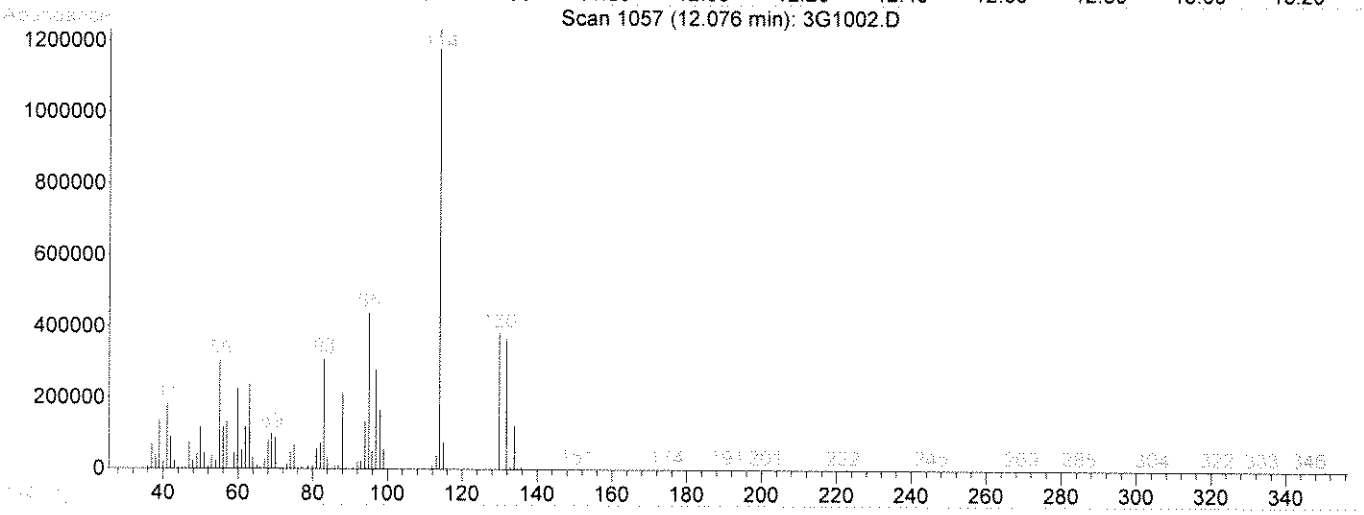
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D
Acq On : 1 Jul 2013 12:42
Sample : 8260 CVS 50 UG/L
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 1 15:52 2013

Vial: 2
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(38) 1,4-Difluorobenzene(IS) (i)

12.08min 50.00ug/L

response 2434024

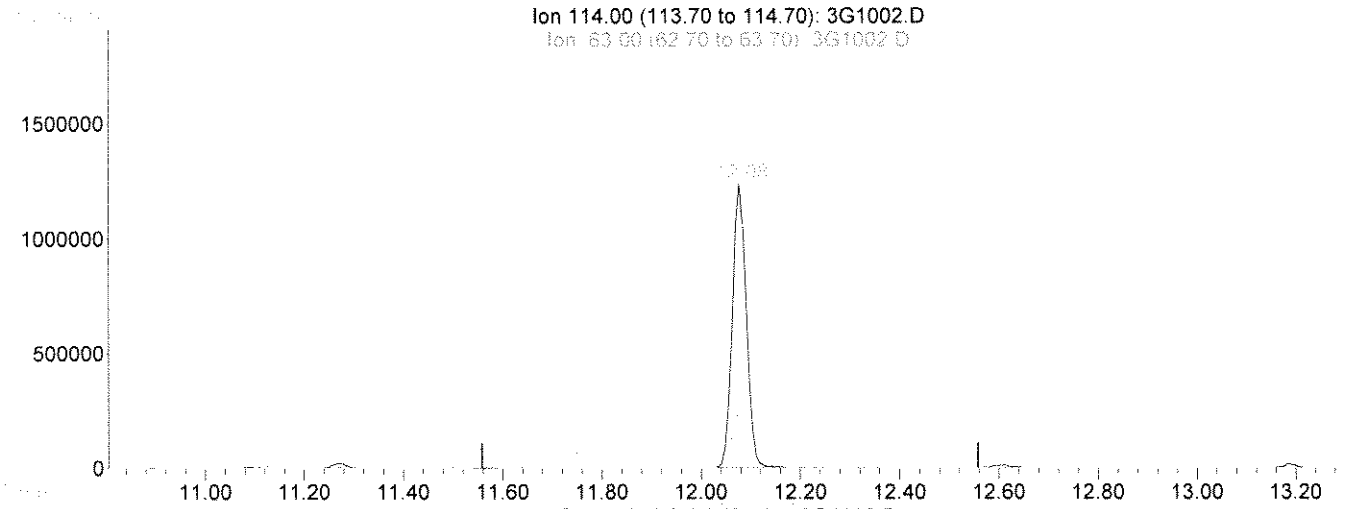
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	20.32
88.00	20.10	17.46
0.00	0.00	0.00

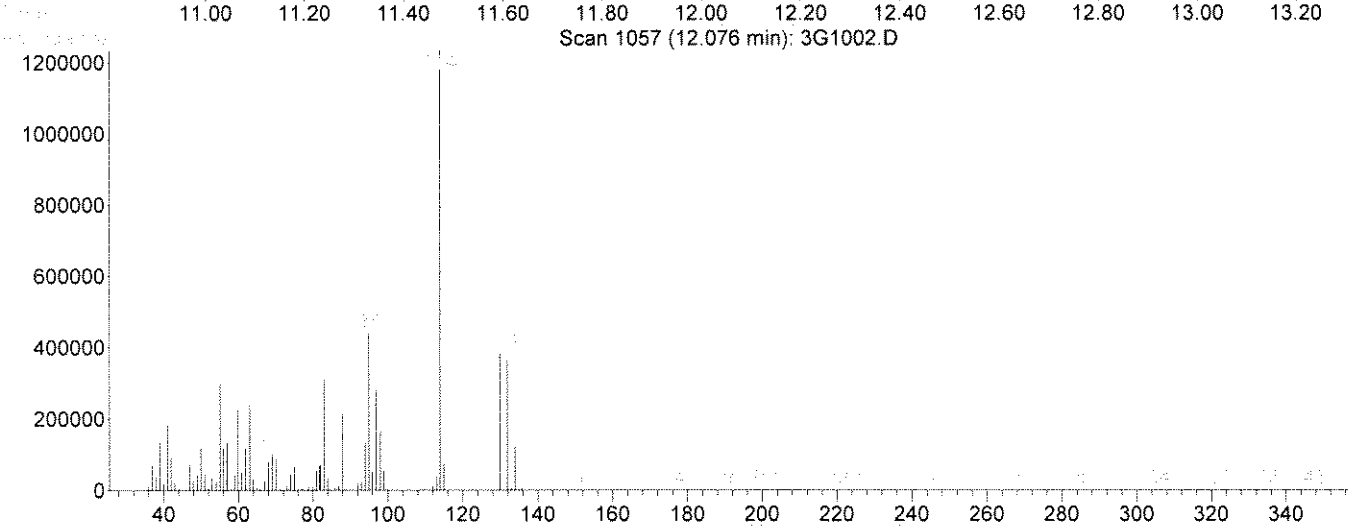
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KB 7-1-13
Review by/Date: 160702

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(38) 1,4-Difluorobenzene(IS) (i)

12.08min 50.00ug/L m

response 2446570

Ion	Exp%	Act%
114.00	100	100
63.00	24.70	20.22
88.00	20.10	17.37
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[✓] ISTD reintegration

[ ] Other:

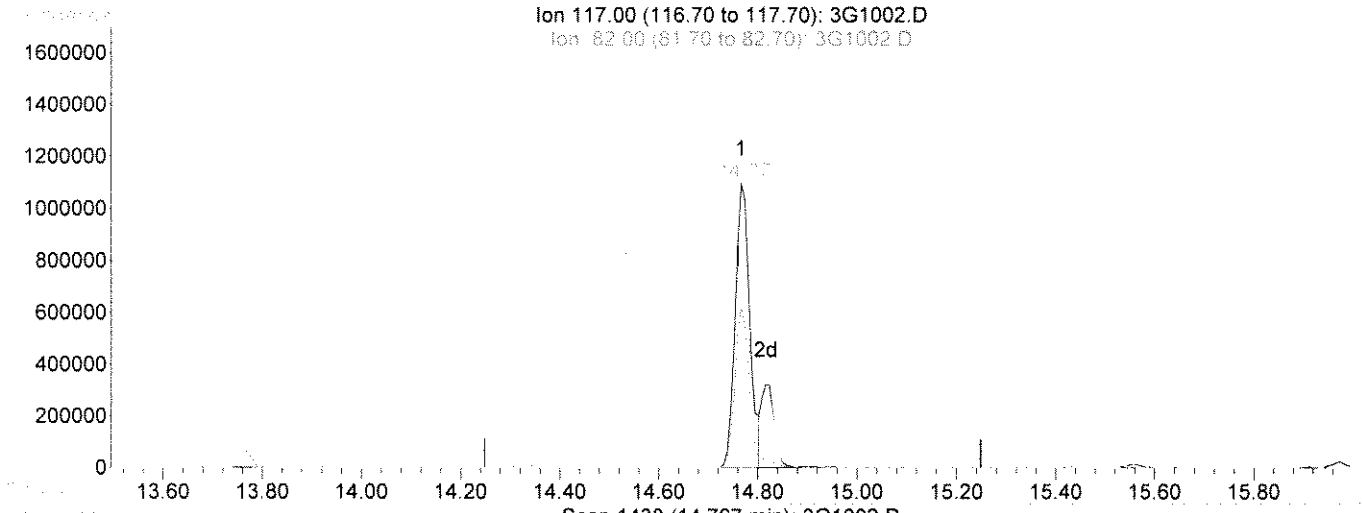
Review by/Date KB 7-1-13

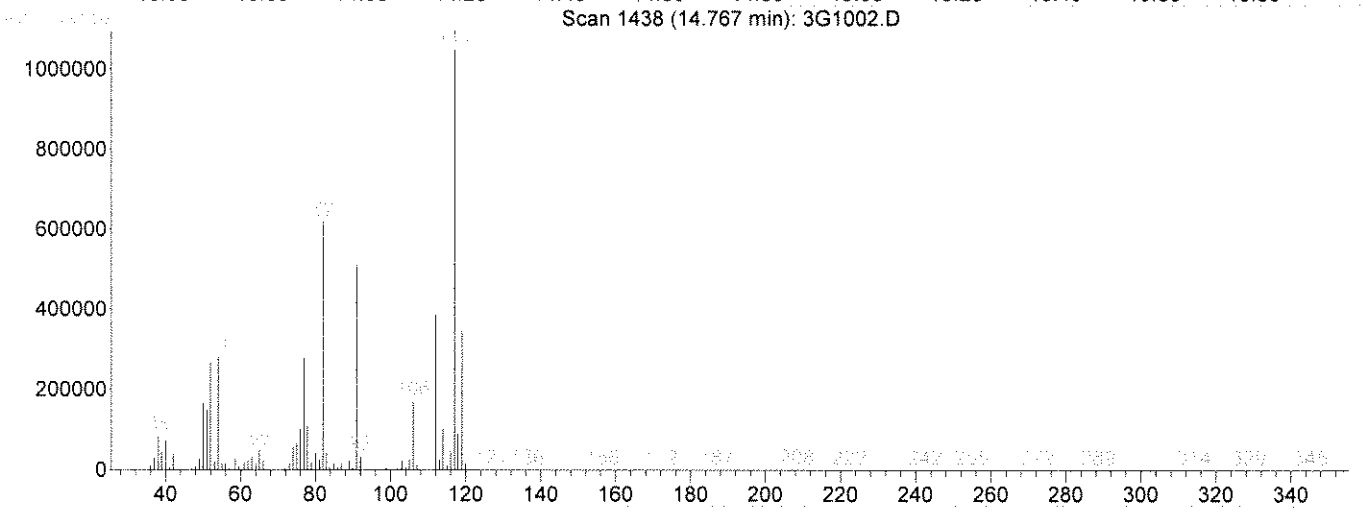
Review by/Date: KB 7.02.13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(58) Chlorobenzene-d5(IS) (i)

14.77min 50.00ug/L

response 2240469

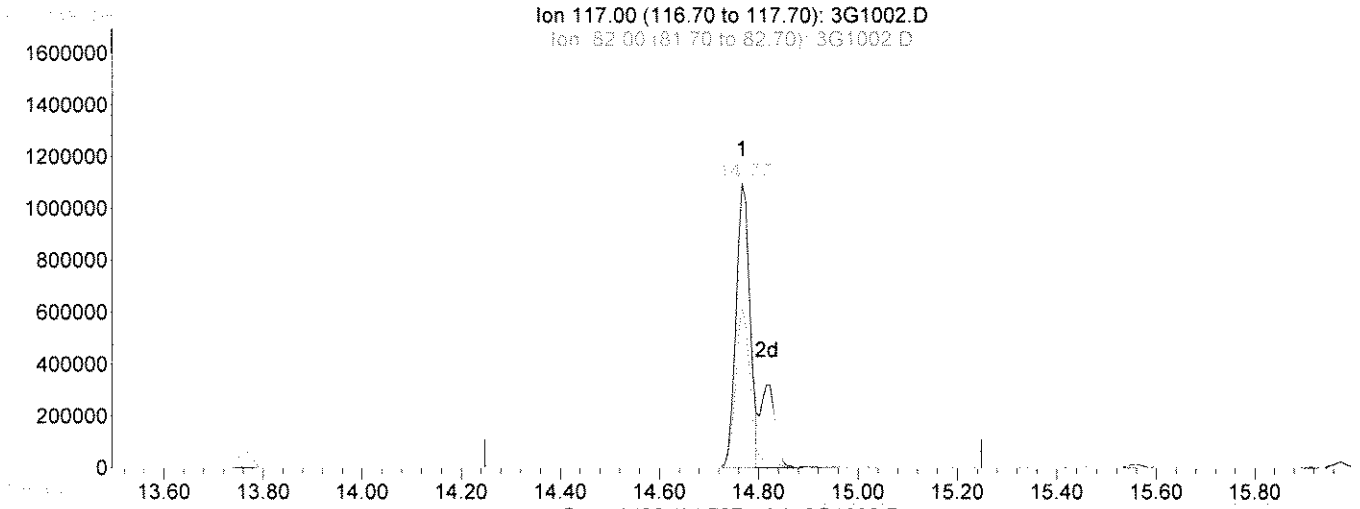
Ion	Exp%	Act%
117.00	100	100
82.00	60.40	57.02
119.00	31.30	32.20
0.00	0.00	0.00

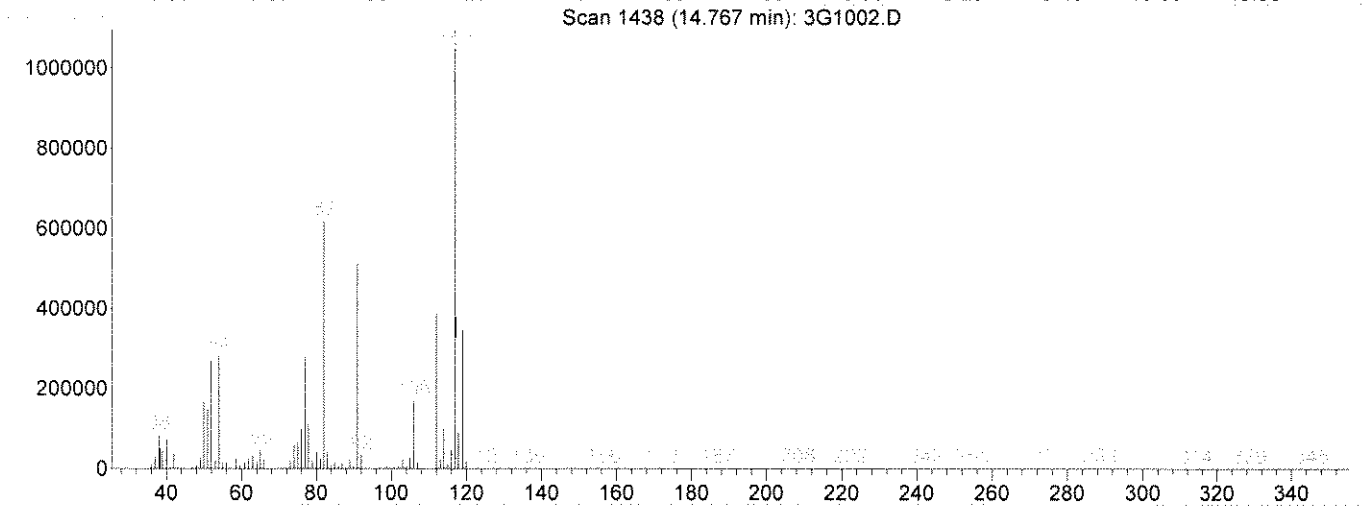
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 7-1-13
Review by/Date: 07.02.13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:54 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(58) Chlorobenzene-d5(IS) (i)

14.77min 50.00ug/L m

response 2154855

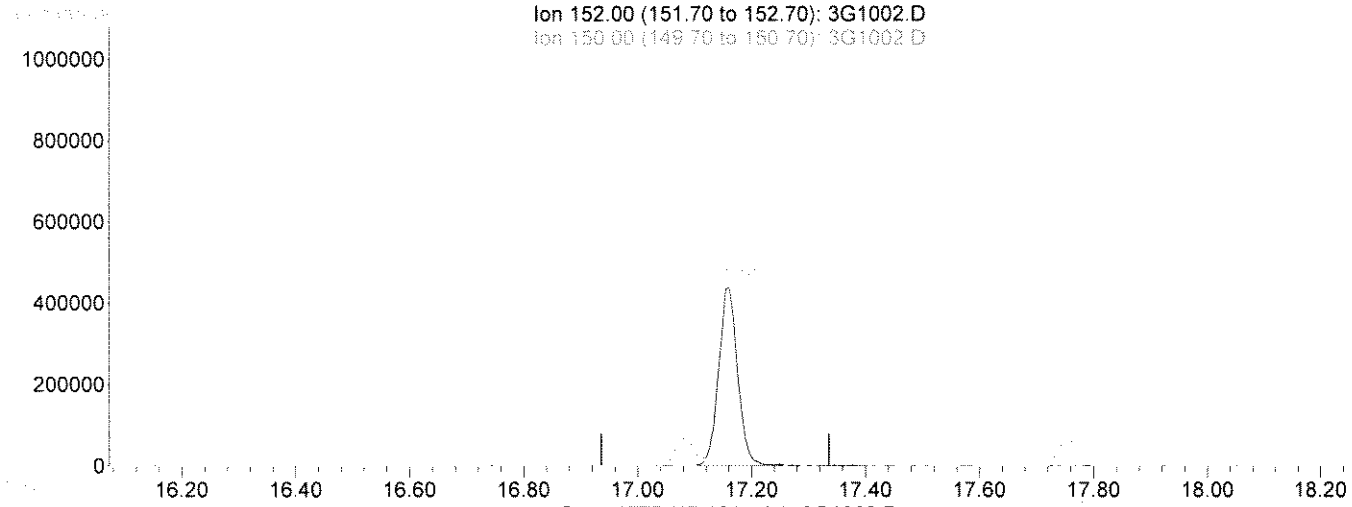
Ion	Exp%	Act%
117.00	100	100
82.00	60.40	59.29
119.00	31.30	33.48
0.00	0.00	0.00

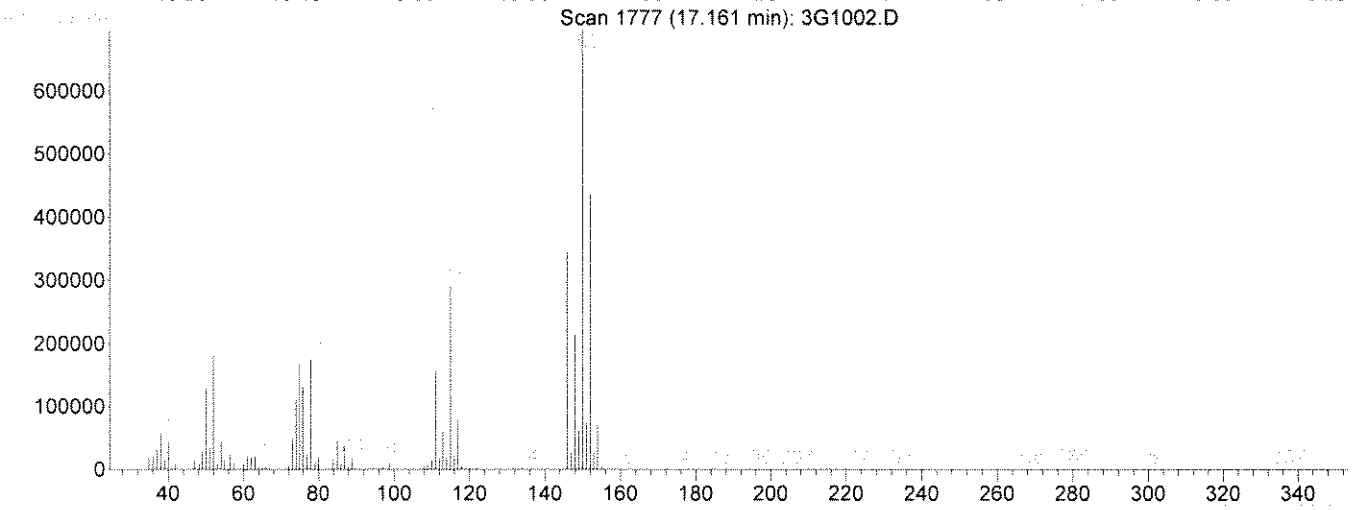
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date KB 7-1-13
Review by/Date: KB 07-02-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:55 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(81) 1,4-Dichlorobenzene-d4(IS) (i)

17.16min 50.00ug/L

response 1013212

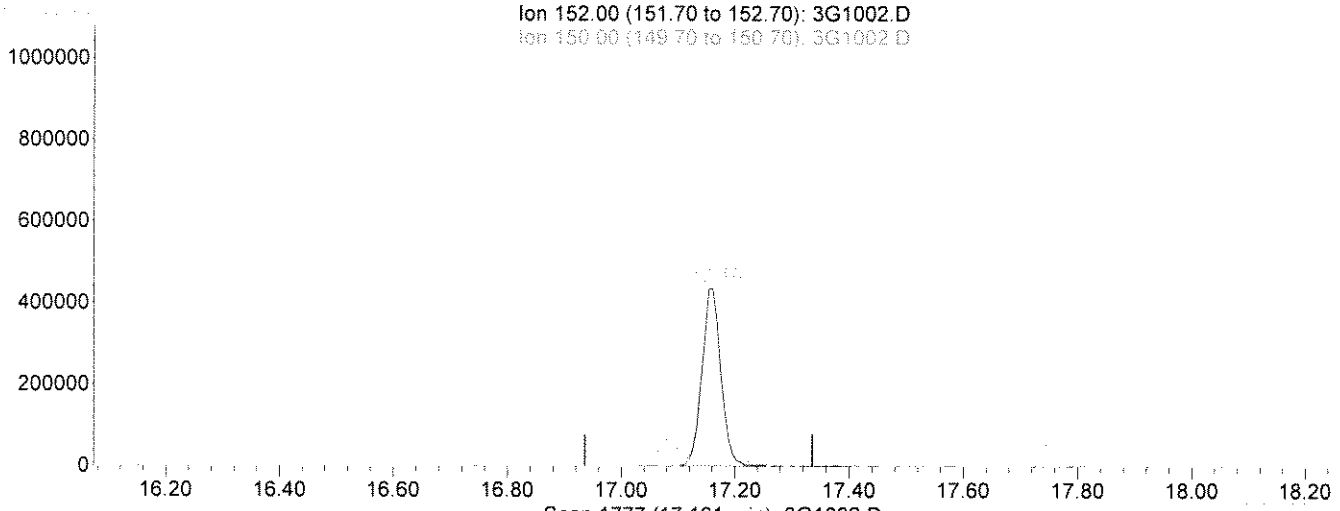
Ion	Exp%	Act%
152.00	100	100
150.00	156.10	170.50
115.00	55.70	66.30
0.00	0.00	0.00

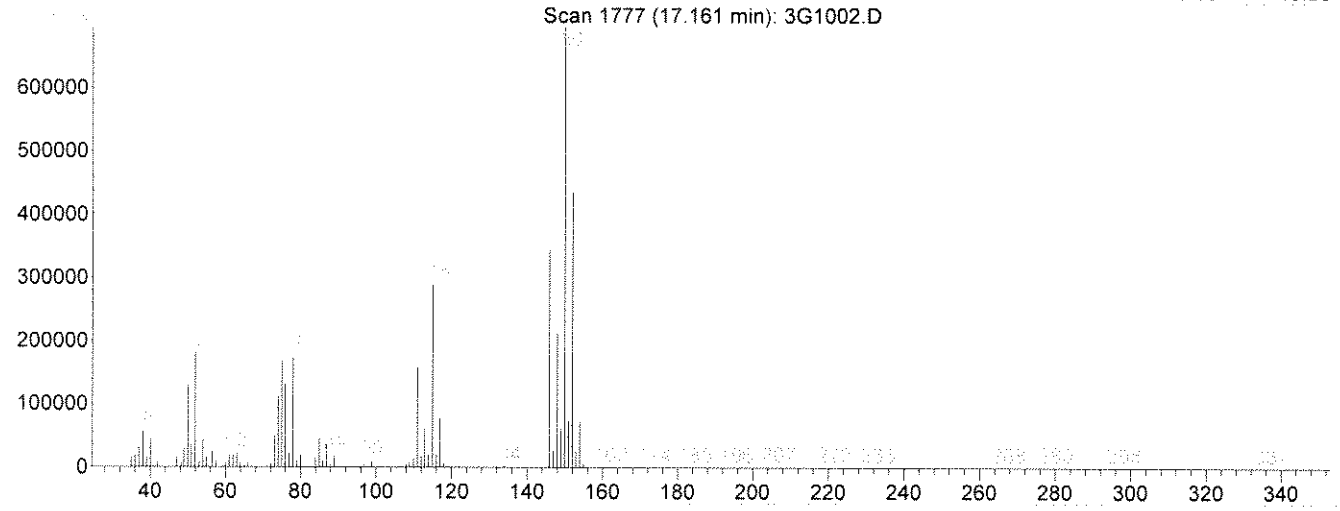
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KB 7-1-13
Review by/Date: KJT 07-02-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1002.D Vial: 2
Acq On : 1 Jul 2013 12:42 Operator: kwb
Sample : 8260 CVS 50 UG/L Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:55 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1002.D

(81) 1,4-Dichlorobenzene-d4(IS) (i)

17.16min 50.00ug/L m

response 1006281

Ion	Exp%	Act%
152.00	100	100
150.00	156.10	171.67
115.00	55.70	66.76
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[✓] ISTD reintegration

[ ] Other:

Review by/Date KJ 7-1-13

Review by/Date: KTD 7.02.13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:32 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1506488	50.00 ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	2435830m	50.00 ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	2149641m	50.00 ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.16	152	958944	50.00 ug/L	0.03
System Monitoring Compounds					
30) Dibromofluoromethane	11.09	113	1100075	46.65 ug/L	0.02
Spiked Amount 50.000	Range 53 - 146		Recovery = 93.30%		
44) 1,2-Dichloroethane-d4	11.67	65	1016602	52.01 ug/l	0.03
Spiked Amount 50.000	Range 45 - 174		Recovery = 104.02%		
56) D8-Toluene	13.35	98	2824595	47.51 ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 95.02%		
77) Bromofluorobenzene	15.91	95	1124465	50.14 ug/L	0.03
Spiked Amount 50.000	Range 41 - 142		Recovery = 100.28%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.98	85	789489	25.26 ug/L	90
3) Chloromethane	5.54	50	599812	18.78 ug/L	98
4) Vinyl Chloride	5.78	62	504750	15.37 ug/L	94
5) Bromomethane	6.58	94	372239	16.76 ug/L	91
6) Chloroethane	6.86	64	285160	15.22 ug/L	90
7) Trichlorofluoromethane	7.15	101	825042	20.92 ug/L	97
8) Trichlorotrifluoroethane	8.11	101	401740	15.02 ug/L	75
9) acrolein	8.62	56	116483	64.93 ug/L	97
10) Acetone	9.05	43	198196	43.94 ug/L	100
11) 1,1-Dichloroethene	8.09	96	323585	15.64 ug/L	78
12) 3-Chloropropene	8.82	76	165538	15.67 ug/L	59
13) Acetonitrile	9.70	41	18056	10.82 ug/L	85
14) Iodomethane	8.35	142	437679	15.69 ug/L	85
15) Carbon disulfide	8.17	76	1091546	14.12 ug/L	97
16) Methylene Chloride	8.98	84	354600	14.77 ug/L #	79
17) Methyl tert-butyl ether	9.32	73	482242	18.24 ug/L	95
18) Acrylonitrile	10.08	53	73679	15.38 ug/L	94
19) T-1,2-Dichloroethene	9.21	96	345693	16.53 ug/L	76
20) Isopropyl Ether	9.77	45	1033515	17.51 ug/L #	92
21) C-1,2-Dichloroethene	10.63	96	338842	15.57 ug/L	90
22) 1,1-Dichloroethane	10.01	63	646177	17.06 ug/L	94
23) Vinyl Acetate	10.24	43	286971	7.21 ug/L	99
24) Chloroprene	9.97	53	546820	22.11 ug/L	98
25) 2-Butanone	11.21	72	42204	36.95 ug/L	76
26) Propionitrile	11.55	54	34088	19.18 ug/L	100
27) 2,2-Dichloropropane	10.76	77	529909	20.43 ug/L	98
28) Methacrylonitrile	11.57	67	76751	13.29 ug/L	78
29) Chloroform	10.90	83	726112	18.87 ug/L	97
31) Dibromofluoromethane	11.09	113	1100075	46.65 ug/L	100
32) Bromochloromethane	10.85	128	178361	14.67 ug/L	84
33) 1,1,1-Trichloroethane	11.16	97	654061	22.06 ug/L	93
34) 1,1-Dichloropropene	11.27	75	472651	19.95 ug/L	96
35) Diethyl ether	7.71	59	216523	13.05 ug/l	92
36) Methyl Acetate	9.19	74	46204	19.67 ug/l #	73
37) Cyclohexane	10.87	56	520887	15.98 ug/l #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:32 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	12.09	55	489696	16.38 ug/l #	81
40) Carbon Tetrachloride	11.09	117	568548	21.43 ug/L	97
41) 1,2-Dichloroethane	11.74	62	483462	20.25 ug/L	97
42) Benzene	11.54	78	1193202	16.17 ug/L	96
43) Isobutyl Alcohol	11.57	43	73362	114.53 ug/L #	1
45) 1,2-Dichloroethane-d4	11.67	65	1016602	52.01 ug/l	94
46) Trichloroethene	12.08	130	354956	15.63 ug/L	94
47) 1,2-Dichloropropane	12.60	63	301656	15.15 ug/L	98
48) Methyl Methacrylate	12.68	100	49225	13.52 ug/L #	49
49) 1,4-Dioxane	12.80	88	3425	29.05 ug/L #	44
50) Bromodichloromethane	12.63	83	507618	19.51 ug/L	97
51) Dibromomethane	12.52	93	201817	15.90 ug/L	87
52) 4-Methyl-2-Pentanone	13.68	100	58492	35.78 ug/L	61
53) 2-Chloroethyl vinyl ether	13.19	63	5384	29.87 ug/L	86
54) 2-Hexanone	14.40	43	306641	35.46 ug/L	99
55) C-1,3-Dichloropropene	13.19	75	437918	16.10 ug/L	90
57) D8-Toluene	13.35	98	2824595	47.51 ug/L	93
59) Toluene	13.40	92	728671	16.82 ug/L	99
60) Ethyl Methacrylate	13.78	69	269169	16.14 ug/L #	83
61) T-1,3-Dichloropropene	13.74	75	430716	19.71 ug/L	91
62) 1,1,2-Trichloroethane	13.91	97	242892	15.11 ug/L	94
63) 1,3-Dichloropropane	14.17	76	407036	15.21 ug/L	99
64) Tetrachloroethene	13.76	164	266017	16.62 ug/L	95
65) Dibromochloromethane	14.10	129	341540	17.55 ug/L	95
66) 1,2-Dibromoethane	14.36	107	290741	17.24 ug/L	91
67) Chlorobenzene	14.79	112	969002	16.69 ug/L	97
68) 1,1,1,2-Tetrachloroethane	14.82	131	323484	16.98 ug/L	93
69) Ethylbenzene	14.75	106	421172	18.12 ug/L	89
70) m-xylene & p-xylene	14.86	106	1088877	33.83 ug/L	95
71) O-Xylene	15.29	106	493907	17.38 ug/L	94
72) Bromoform	15.45	173	193276	14.88 ug/L	98
73) Styrene	15.33	104	817785	17.02 ug/L	91
74) Isopropylbenzene	15.56	105	1376235	18.27 ug/L	99
75) 1,2,3-Trichloropropane	16.24	75	296095	15.39 ug/L	94
76) 1,1,2,2-Tetrachloroethane	16.04	83	281119	13.50 ug/L	96
78) Bromofluorobenzene	15.91	95	1124465	50.14 ug/L #	88
79) T-1,4-dichloro-2-butene	16.23	53	59628	19.98 ug/L #	1
80) N-Propylbenzene	15.97	91	1602090	17.67 ug/L	95
82) Bromobenzene	16.07	156	346258	16.84 ug/L	80
83) 1,3,5-Trimethylbenzene	16.13	105	1163103	20.83 ug/L	99
84) 2-Chlorotoluene	16.21	91	1005636	18.50 ug/L	95
85) 4-Chlorotoluene	16.38	91	993113	19.62 ug/L	99
86) 1,2,4-Trimethylbenzene	16.58	105	1117331	20.48 ug/L	100
87) s-Butylbenzene	16.72	105	1451625	18.95 ug/L	96
88) tert-Butylbenzene	16.52	119	959252	19.25 ug/L	90
89) p-Isopropyltoluene	16.84	119	1159052	21.39 ug/L	98
90) 1,3-Dichlorobenzene	17.08	146	588065	15.35 ug/L	94
91) 1,4-Dichlorobenzene	17.18	146	617852	16.21 ug/L	96
92) 1,2-Dichlorobenzene	17.75	146	511004	14.96 ug/L	92
93) N-Butylbenzene	17.37	91	1037722	19.06 ug/L	98
94) DBCP	18.93	75	43761	19.70 ug/L	77

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:32 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.93	128	489463	14.00 ug/L	100
96)	1,2,4-Trichlorobenzene	20.17	180	324078	15.64 ug/L	99
97)	Hexachlorobutadiene	19.99	225	219310	18.52 ug/L	97
98)	1,2,3-Trichlorobenzene	21.35	180	298878	16.63 ug/L	97

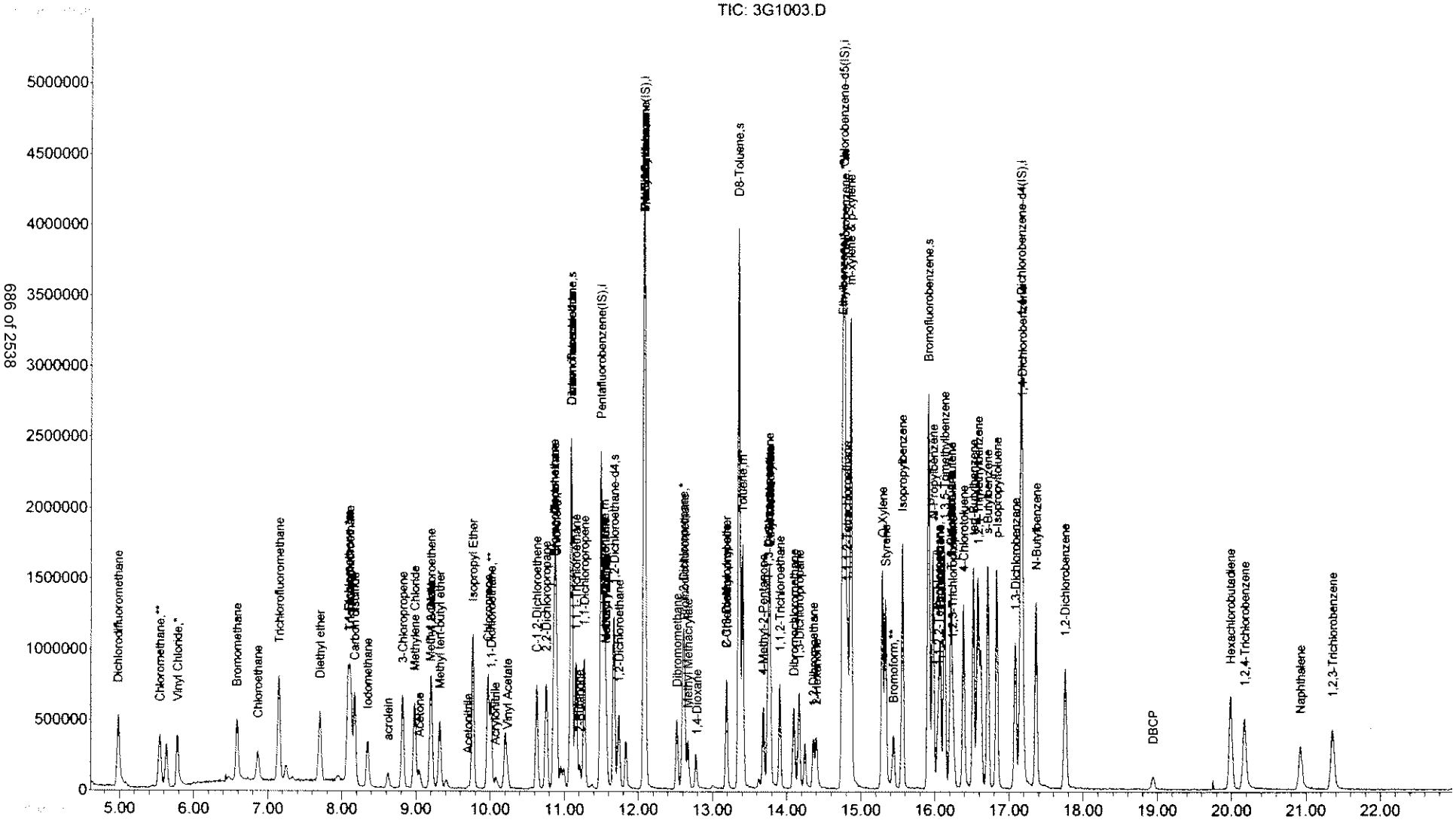
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:32 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

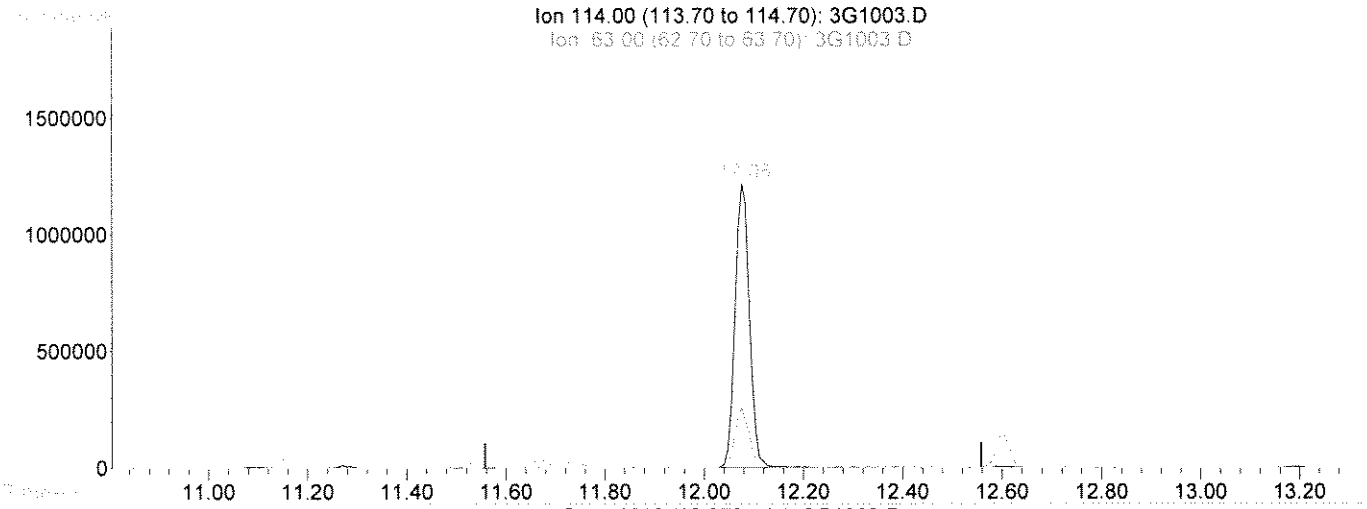
TIC: 3G1003.D

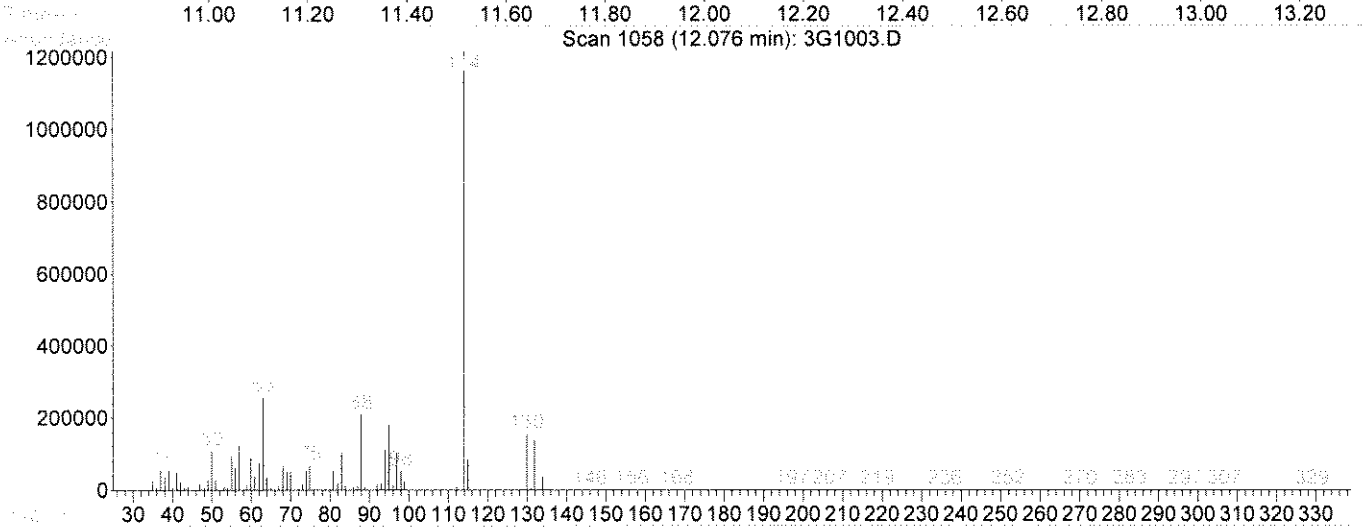


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:31 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





(38) 1,4-Difluorobenzene(IS) (i)

12.08min 50.00ug/L

response 2447173

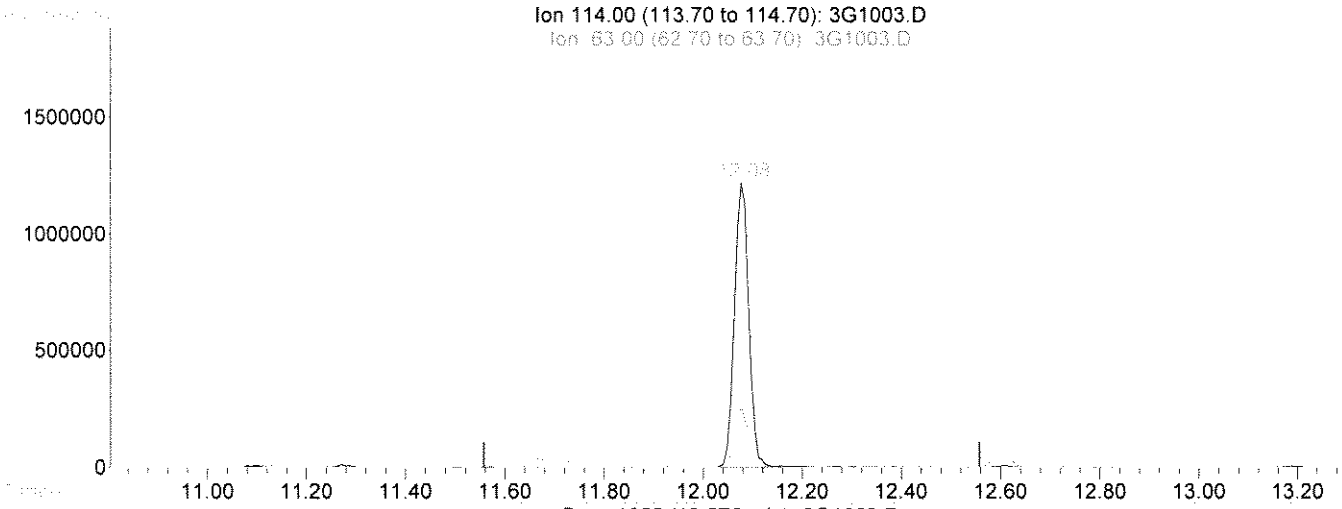
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	20.42
88.00	20.10	17.35
0.00	0.00	0.00

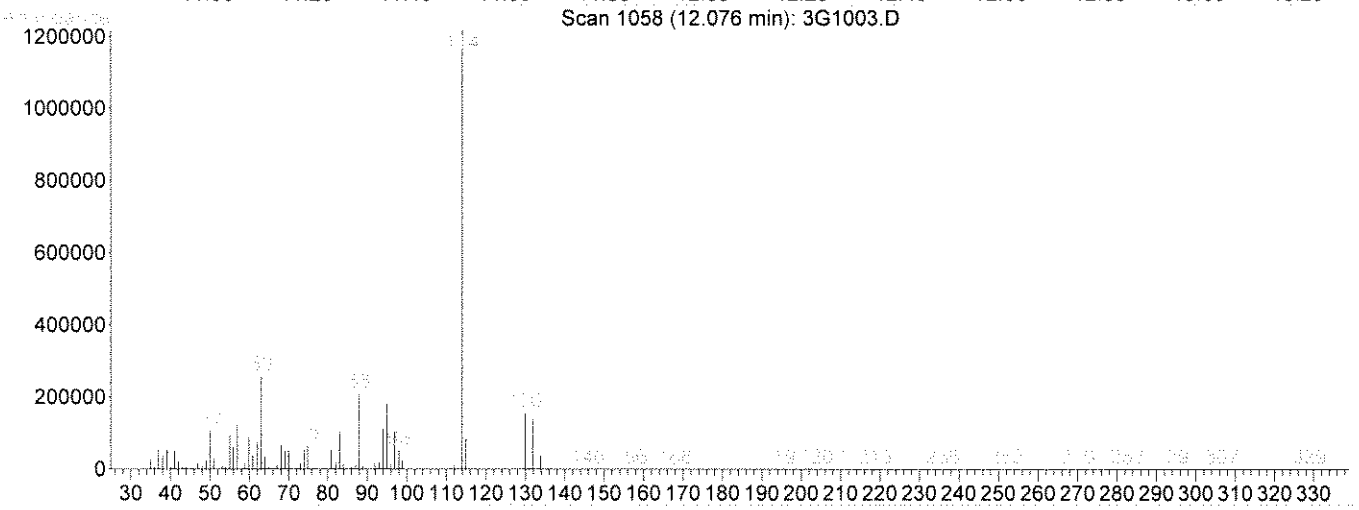
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KD 7-1-13
Review by/Date: KJT 07-02-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:32 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1003.D

(38) 1,4-Difluorobenzene(IS) (i)

12.08min 50.00ug/L m

response 2435830

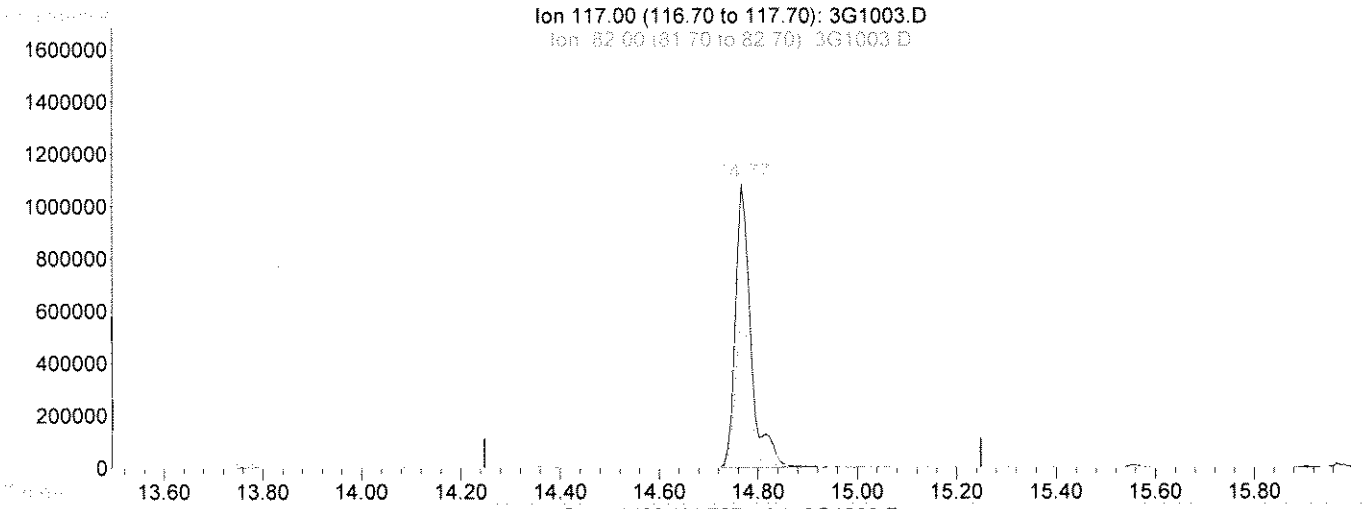
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	20.51
88.00	20.10	17.43
0.00	0.00	0.00

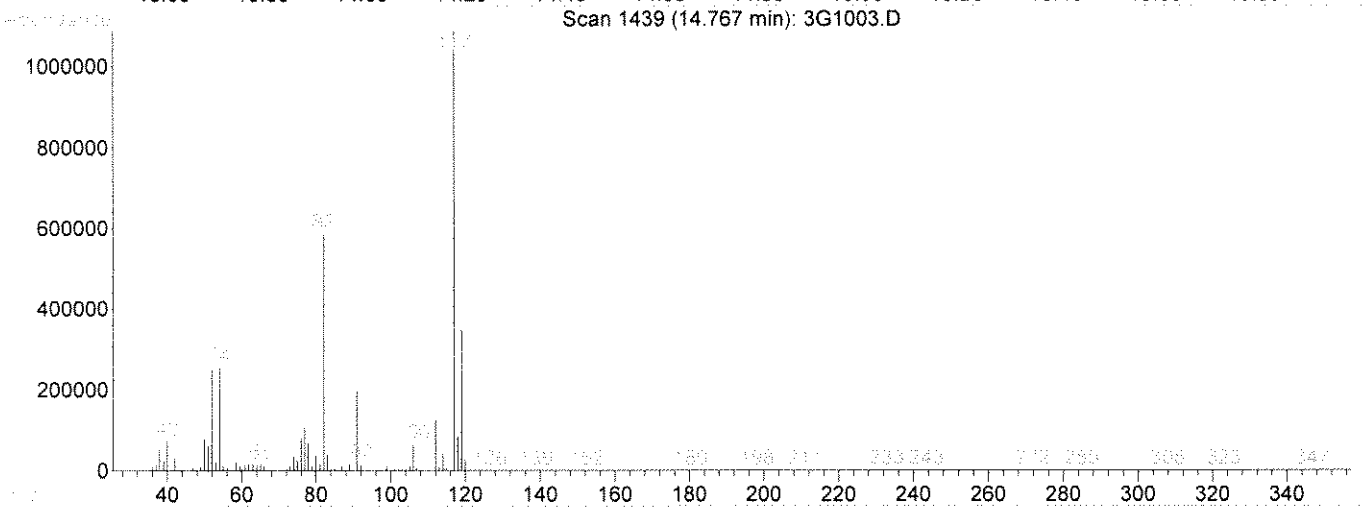
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: KB 7-1-13
Review by/Date: KT 07-02-'13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:47 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1003.D

(58) Chlorobenzene-d5(IS) (i)

14.77min 50.00ug/L

response 2392467

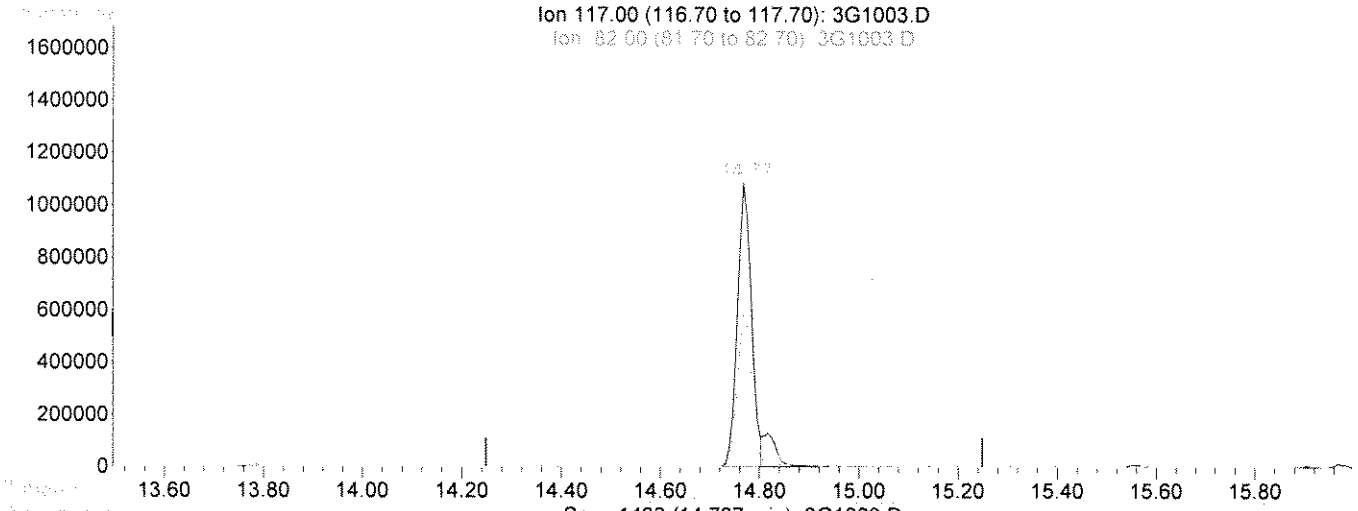
Ion	Exp%	Act%
117.00	100	100
82.00	60.40	50.19
119.00	31.30	29.75
0.00	0.00	0.00

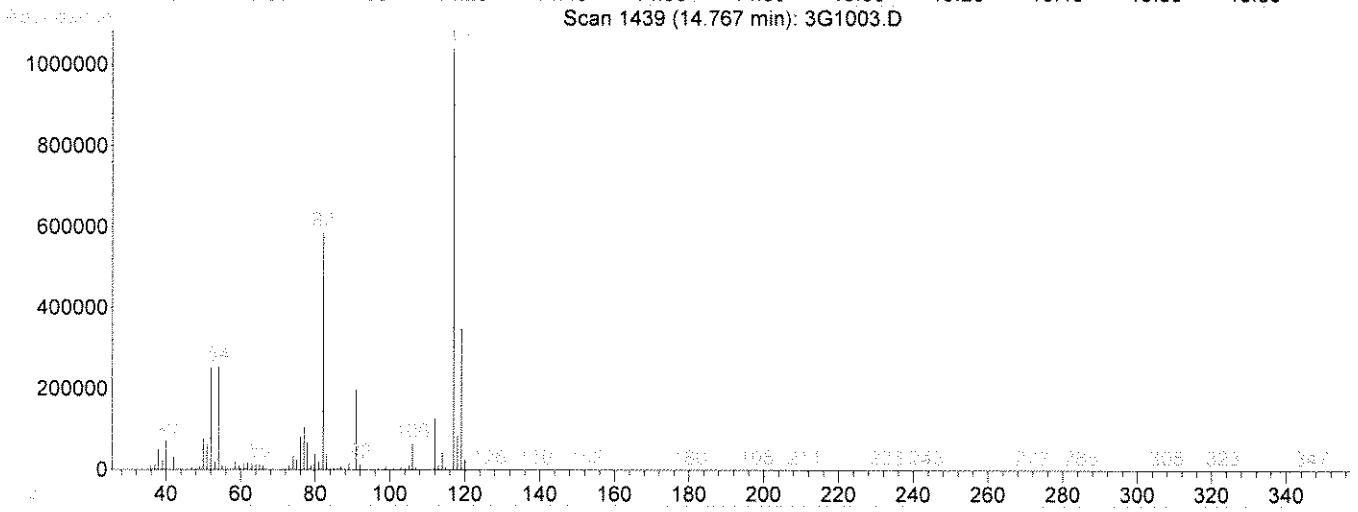
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KB 7-1-13
Review by/Date: KTT 07.02.13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1003.D Vial: 3
Acq On : 1 Jul 2013 13:19 Operator: kwb
Sample : 3F30006-BS1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:29 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1003.D

(58) Chlorobenzene-d5(IS) (i)

14.77min 50.00ug/L m

response 2149641

Ion	Exp%	Act%
117.00	100	100
82.00	60.40	55.86
119.00	31.30	33.11
0.00	0.00	0.00

Select One:

[] Original Integration [✓] Manual Integration

Select reason for manual integration:

[] Poor integration (peak tailing, baseline selection)

[] Incorrect peak selection/Peak not found

[] Hump integration

[✓] Baseline drop for split peaks

[✓] ISTD reintegration

[] Other:

Review by/Date KS 7-1-13

Review by/Date KT 07.02.13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1004.D Vial: 4
Acq On : 1 Jul 2013 13:49 Operator: kwb
Sample : 3F30006-BSD1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:39 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KB 7-1-13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1538971	50.00 ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	2477912m	50.00 ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	2204757	50.00 ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.16	152	1010445	50.00 ug/L	0.02
System Monitoring Compounds					
30) Dibromofluoromethane	11.10	113	1062269	44.10 ug/L	0.03
Spiked Amount 50.000	Range 53 - 146		Recovery = 88.20%		
44) 1,2-Dichloroethane-d4	11.67	65	1009840	50.79 ug/l	0.02
Spiked Amount 50.000	Range 45 - 174		Recovery = 101.58%		
56) D8-Toluene	13.35	98	2827262	46.75 ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 93.50%		
77) Bromofluorobenzene	15.91	95	1136552	49.41 ug/L	0.03
Spiked Amount 50.000	Range 41 - 142		Recovery = 98.82%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.98	85	831884	26.05 ug/L	92
3) Chloromethane	5.55	50	651942	19.98 ug/L	95
4) Vinyl Chloride	5.78	62	534252	15.92 ug/L	97
5) Bromomethane	6.58	94	354043	15.60 ug/L	87
6) Chloroethane	6.86	64	289985	15.15 ug/L	94
7) Trichlorofluoromethane	7.15	101	848555	21.06 ug/L	98
8) Trichlorotrifluoroethane	8.11	101	452250	16.55 ug/L	86
9) acrolein	8.62	56	120634	65.83 ug/L	98
10) Acetone	9.05	43	192396	41.75 ug/L	95
11) 1,1-Dichloroethene	8.08	96	336095	15.90 ug/L	78
12) 3-Chloropropene	8.82	76	182813	16.94 ug/L	62
13) Acetonitrile	9.70	41	18515	10.86 ug/L #	53
14) Iodomethane	8.35	142	468590	16.45 ug/L	90
15) Carbon disulfide	8.17	76	1176303	14.90 ug/L	100
16) Methylene Chloride	8.98	84	380493	15.51 ug/L #	80
17) Methyl tert-butyl ether	9.32	73	552455	20.45 ug/L	92
18) Acrylonitrile	10.08	53	81762	16.70 ug/L	92
19) T-1,2-Dichloroethene	9.21	96	369363	17.29 ug/L	76
20) Isopropyl Ether	9.77	45	1128214	18.71 ug/L #	92
21) C-1,2-Dichloroethene	10.63	96	362646	16.32 ug/L	90
22) 1,1-Dichloroethane	10.01	63	708883	18.32 ug/L	95
23) Vinyl Acetate	10.24	43	332396	8.17 ug/L	98
24) Chloroprene	9.97	53	597951	23.67 ug/L	99
25) 2-Butanone	11.21	72	51543	44.18 ug/L	80
26) Propionitrile	11.55	54	29580	16.29 ug/L	100
27) 2,2-Dichloropropane	10.76	77	585828	22.11 ug/L	98
28) Methacrylonitrile	11.57	67	78904	13.38 ug/L	65
29) Chloroform	10.90	83	751536	19.12 ug/L	98
31) Dibromofluoromethane	11.10	113	1062269	44.10 ug/L	100
32) Bromochloromethane	10.87	128	199558	16.07 ug/L	80
33) 1,1,1-Trichloroethane	11.16	97	686357	22.67 ug/L	92
34) 1,1-Dichloropropene	11.27	75	481682	19.90 ug/L	93
35) Diethyl ether	7.71	59	257312	15.18 ug/l	88
36) Methyl Acetate	9.19	74	47955	19.99 ug/l	78
37) Cyclohexane	10.87	56	556128	16.71 ug/l #	78

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1004.D Vial: 4
Acq On : 1 Jul 2013 13:49 Operator: kwb
Sample : 3F30006-BSD1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:39 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39) Methyl Cyclohexane	12.09	55	498976	16.41 ug/l	#	75
40) Carbon Tetrachloride	11.09	117	614495	22.76 ug/L		97
41) 1,2-Dichloroethane	11.74	62	549839	22.64 ug/L		99
42) Benzene	11.54	78	1265598	16.86 ug/L		95
43) Isobutyl Alcohol	11.57	43	96590	148.24 ug/L	#	1
45) 1,2-Dichloroethane-d4	11.67	65	1009840	50.79 ug/l		95
46) Trichloroethene	12.08	130	376353	16.29 ug/L		93
47) 1,2-Dichloropropane	12.60	63	307772	15.19 ug/L		96
48) Methyl Methacrylate	12.68	100	62784	16.96 ug/L		55
49) 1,4-Dioxane	12.79	88	3310	27.60 ug/L		92
50) Bromodichloromethane	12.62	83	531097	20.06 ug/L		98
51) Dibromomethane	12.52	93	239560	18.55 ug/L		88
52) 4-Methyl-2-Pentanone	13.68	100	65381	39.32 ug/L		74
53) 2-Chloroethyl vinyl ether	13.19	63	2737	14.93 ug/L		52
54) 2-Hexanone	14.40	43	401865	45.69 ug/L		98
55) C-1,3-Dichloropropene	13.19	75	507221	18.33 ug/L		87
57) D8-Toluene	13.35	98	2827262	46.75 ug/L		93
59) Toluene	13.40	92	804863	18.11 ug/L		98
60) Ethyl Methacrylate	13.78	69	296506	17.34 ug/L	#	87
61) T-1,3-Dichloropropene	13.74	75	490308	21.87 ug/L		83
62) 1,1,2-Trichloroethane	13.91	97	265436	16.09 ug/L		96
63) 1,3-Dichloropropane	14.17	76	467486	17.04 ug/L		98
64) Tetrachloroethene	13.76	164	287756	17.53 ug/L		94
65) Dibromochloromethane	14.10	129	399845	20.03 ug/L		97
66) 1,2-Dibromoethane	14.36	107	324898	18.79 ug/L		95
67) Chlorobenzene	14.79	112	1021038	17.15 ug/L		98
68) 1,1,1,2-Tetrachloroethane	14.82	131	359040	18.37 ug/L		92
69) Ethylbenzene	14.75	106	474628	19.91 ug/L		82
70) m-xylene & p-xylene	14.87	106	1186834	35.95 ug/L		99
71) O-Xylene	15.29	106	578302	19.85 ug/L		93
72) Bromoform	15.44	173	223539	16.78 ug/L		99
73) Styrene	15.33	104	939642	19.06 ug/L		94
74) Isopropylbenzene	15.57	105	1522433	19.70 ug/L		99
75) 1,2,3-Trichloropropane	16.25	75	338998	17.18 ug/L		99
76) 1,1,2,2-Tetrachloroethane	16.05	83	323777	15.16 ug/L		96
78) Bromofluorobenzene	15.91	95	1136552	49.41 ug/L	#	88
79) T-1,4-dichloro-2-butene	16.23	53	67922	22.19 ug/L	#	1
80) N-Propylbenzene	15.97	91	1814392	19.51 ug/L		95
82) Bromobenzene	16.07	156	389339	17.97 ug/L		78
83) 1,3,5-Trimethylbenzene	16.13	105	1259394	21.40 ug/L		99
84) 2-Chlorotoluene	16.21	91	1121576	19.58 ug/L		92
85) 4-Chlorotoluene	16.38	91	1123411	21.06 ug/L		99
86) 1,2,4-Trimethylbenzene	16.58	105	1259755	21.92 ug/L		99
87) s-Butylbenzene	16.71	105	1654037	20.49 ug/L		97
88) tert-Butylbenzene	16.52	119	1070165	20.38 ug/L		92
89) p-Isopropyltoluene	16.84	119	1290983	22.61 ug/L		97
90) 1,3-Dichlorobenzene	17.08	146	644744	15.97 ug/L		90
91) 1,4-Dichlorobenzene	17.18	146	703102	17.51 ug/L		96
92) 1,2-Dichlorobenzene	17.75	146	603991	16.78 ug/L		94
93) N-Butylbenzene	17.36	91	1174873	20.48 ug/L		97
94) DBCP	18.94	75	47840	20.44 ug/L		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1004.D Vial: 4
Acq On : 1 Jul 2013 13:49 Operator: kwb
Sample : 3F30006-BSD1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:39 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

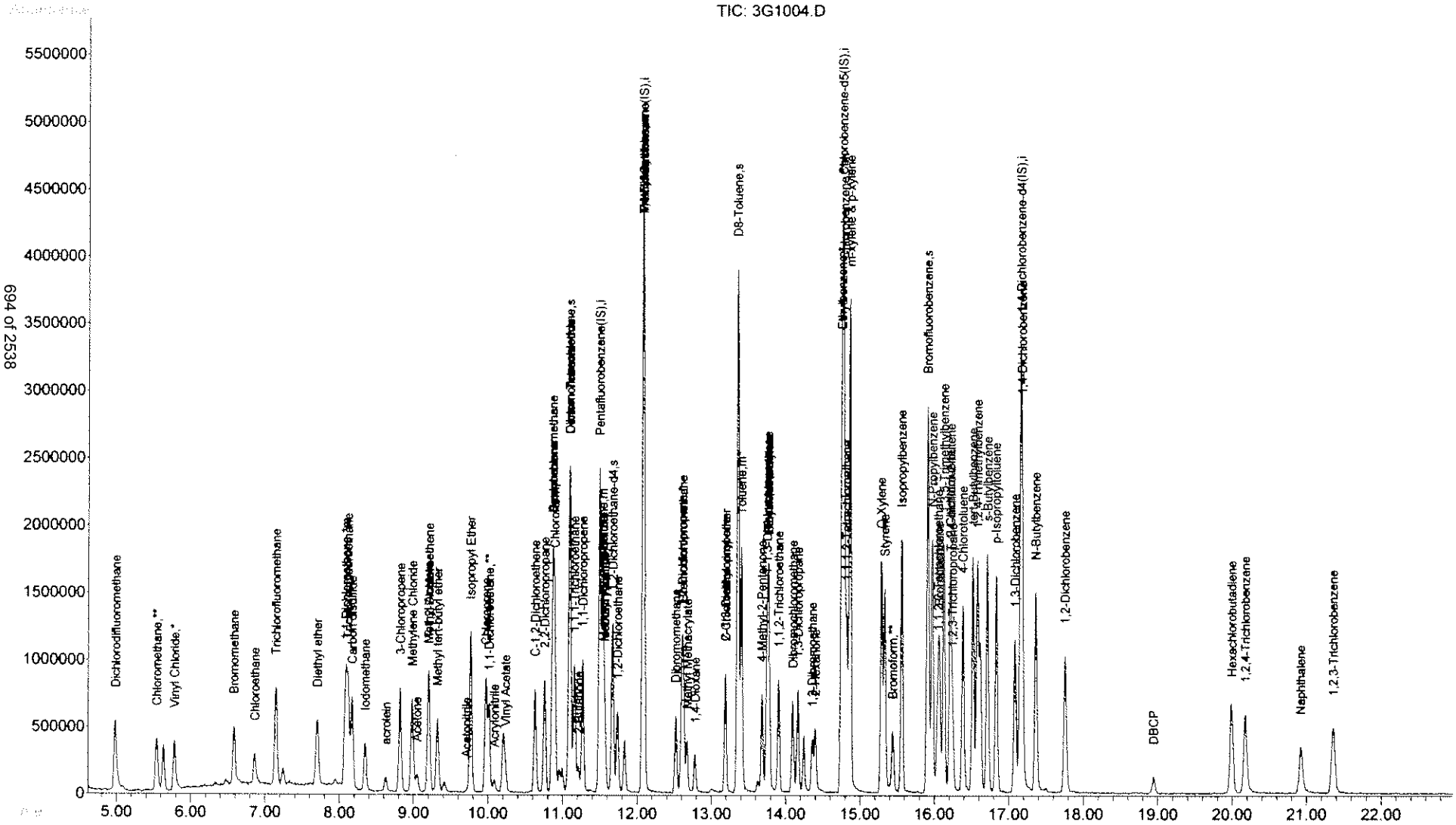
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.92	128	589578	16.01 ug/L	100
96)	1,2,4-Trichlorobenzene	20.18	180	383736	17.57 ug/L	97
97)	Hexachlorobutadiene	20.00	225	238015	19.08 ug/L	97
98)	1,2,3-Trichlorobenzene	21.35	180	342184	18.07 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\070113\3G1004.D Vial: 4
Acq On : 1 Jul 2013 13:49 Operator: kwb
Sample : 3F30006-BSD1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:39 2013 Quant Results File: W1306033.RES

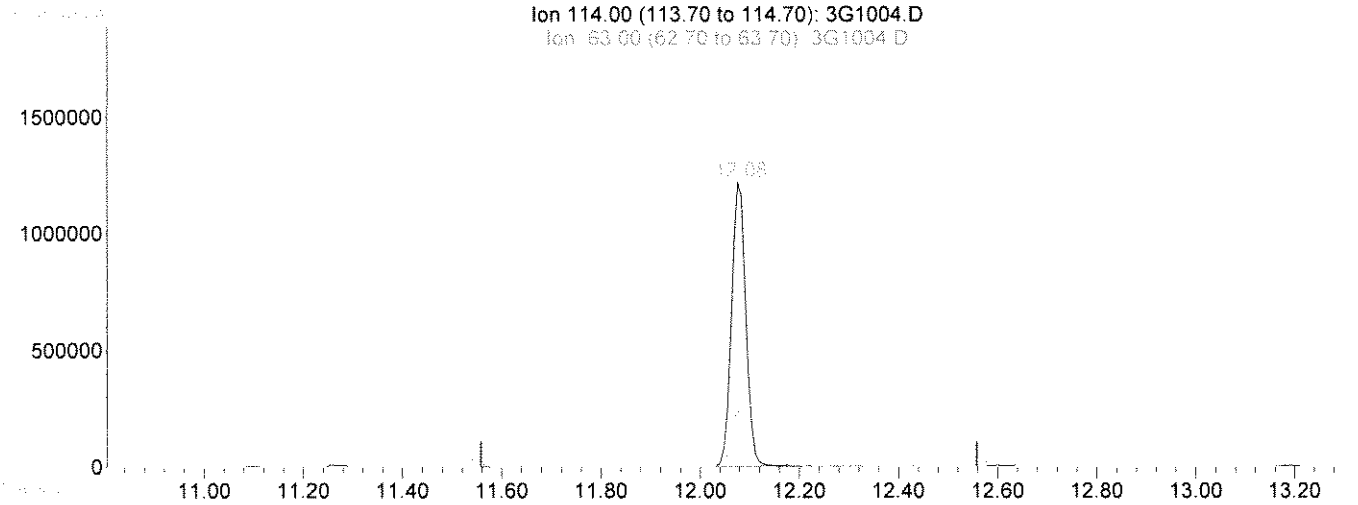
Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

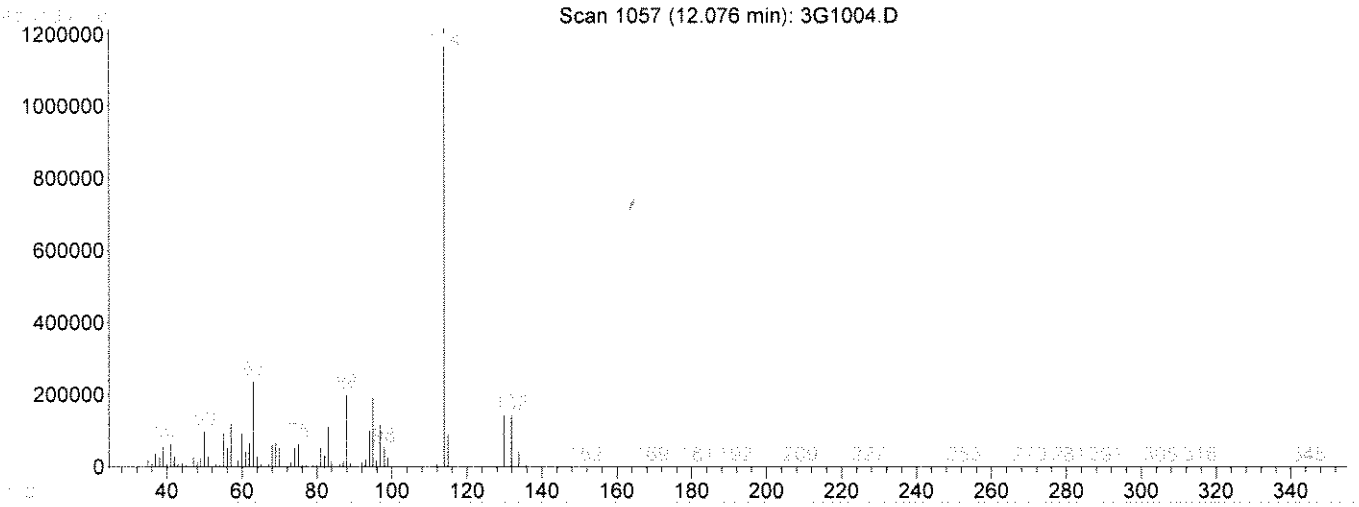


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1004.D Vial: 4
Acq On : 1 Jul 2013 13:49 Operator: kwb
Sample : 3F30006-BSD1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:36 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1004.D

(38) 1,4-Difluorobenzene(IS) (i)

12.08min 50.00ug/L

response 2462206

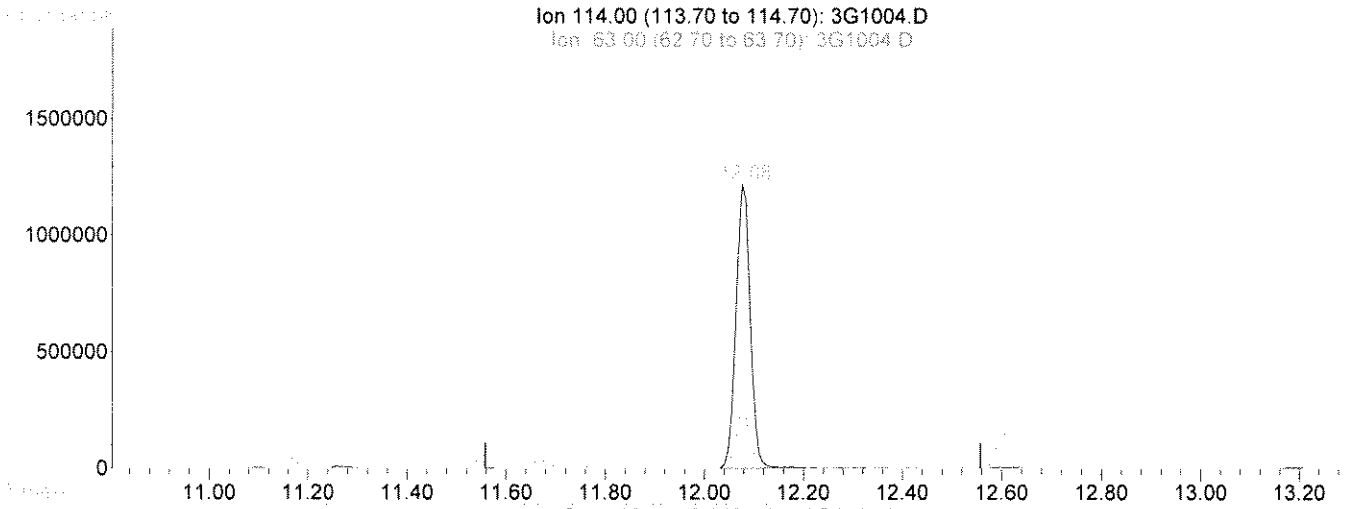
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	19.80
88.00	20.10	17.20
0.00	0.00	0.00

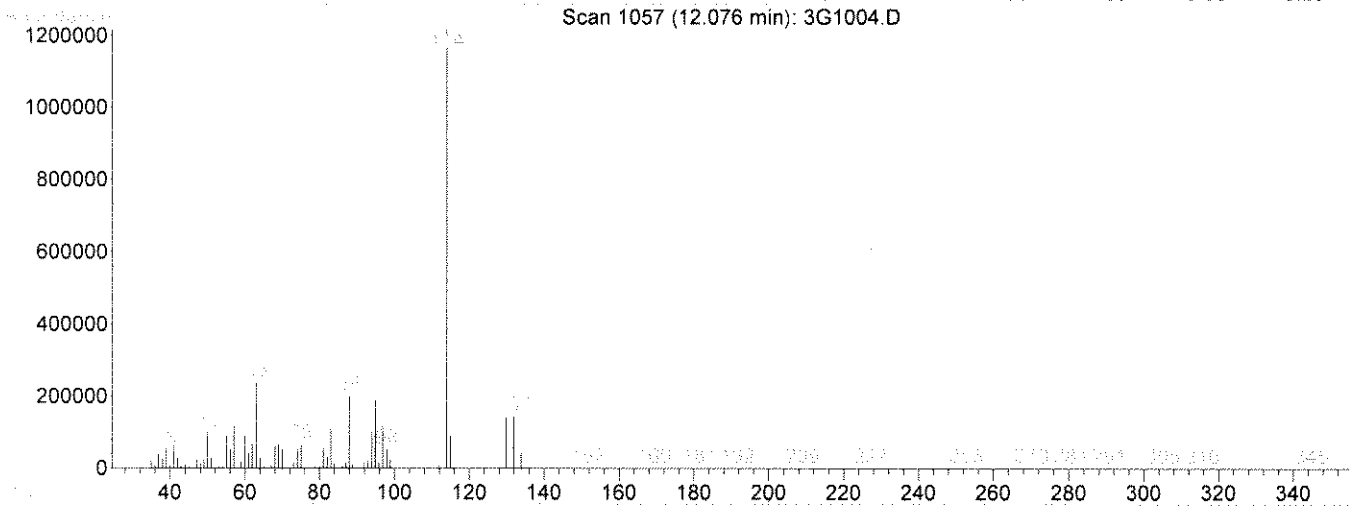
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KB 7-1-13
Review by/Date: KT 07.02.13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\070113\3G1004.D Vial: 4
Acq On : 1 Jul 2013 13:49 Operator: kwb
Sample : 3F30006-BSD1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 16:39 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3G1004.D

(38) 1,4-Difluorobenzene(IS) (i)

12.08min 50.00ug/L m

response 2477912

Ion	Exp%	Act%
114.00	100	100
63.00	24.70	19.67
88.00	20.10	17.09
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[✓] ISTD reintegration

[ ] Other:

Review by/Date KB 7-1-13

Review by/Date: KT 07.02.13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1005.D Vial: 5
Acq On : 1 Jul 2013 14:19 Operator: kwb
Sample : 3F30006-BLK1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:59 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KB 7-1-13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1393238	50.00 ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	2288913	50.00 ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	1897751	50.00 ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.16	152	761651	50.00 ug/L	0.02

System Monitoring Compounds					
30) Dibromofluoromethane	11.10	113	1034882	47.45 ug/L	0.03
Spiked Amount 50.000	Range 53 - 146		Recovery = 94.90%		
44) 1,2-Dichloroethane-d4	11.67	65	990989	53.95 ug/l	0.03
Spiked Amount 50.000	Range 45 - 174		Recovery = 107.90%		
56) D8-Toluene	13.35	98	2580588	46.19 ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 92.38%		
77) Bromofluorobenzene	15.91	95	954296	48.20 ug/L	0.02
Spiked Amount 50.000	Range 41 - 142		Recovery = 96.40%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D.	
6) Chloroethane	0.00	64		N.D.	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D.	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D.	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D.	
26) Propionitrile	0.00	54		N.D.	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	11.10	113	1034882	47.45 ug/L	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D.	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1005.D Vial: 5
Acq On : 1 Jul 2013 14:19 Operator: kwb
Sample : 3F30006-BLK1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:59 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D. d	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.67	65	990989	53.95 ug/l	93
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D. d	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D. d	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.35	98	2580588	46.19 ug/L	93
59)	Toluene	0.00	92		N.D.	
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	0.00	106		N.D. d	
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.91	95	954296	48.20 ug/L #	85
79)	T-1,4-dichloro-2-butene	0.00	53		N.D.	
80)	N-Propylbenzene	0.00	91		N.D.	
82)	Bromobenzene	0.00	156		N.D.	
83)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
84)	2-Chlorotoluene	0.00	91		N.D.	
85)	4-Chlorotoluene	0.00	91		N.D.	
86)	1,2,4-Trimethylbenzene	0.00	105		N.D. d	
87)	s-Butylbenzene	0.00	105		N.D.	
88)	tert-Butylbenzene	0.00	119		N.D.	
89)	p-Isopropyltoluene	0.00	119		N.D. d	
90)	1,3-Dichlorobenzene	0.00	146		N.D. d	
91)	1,4-Dichlorobenzene	0.00	146		N.D. d	
92)	1,2-Dichlorobenzene	0.00	146		N.D.	
93)	N-Butylbenzene	0.00	91		N.D. d	
94)	DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1005.D Vial: 5
Acq On : 1 Jul 2013 14:19 Operator: kwb
Sample : 3F30006-BLK1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 1 15:59 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

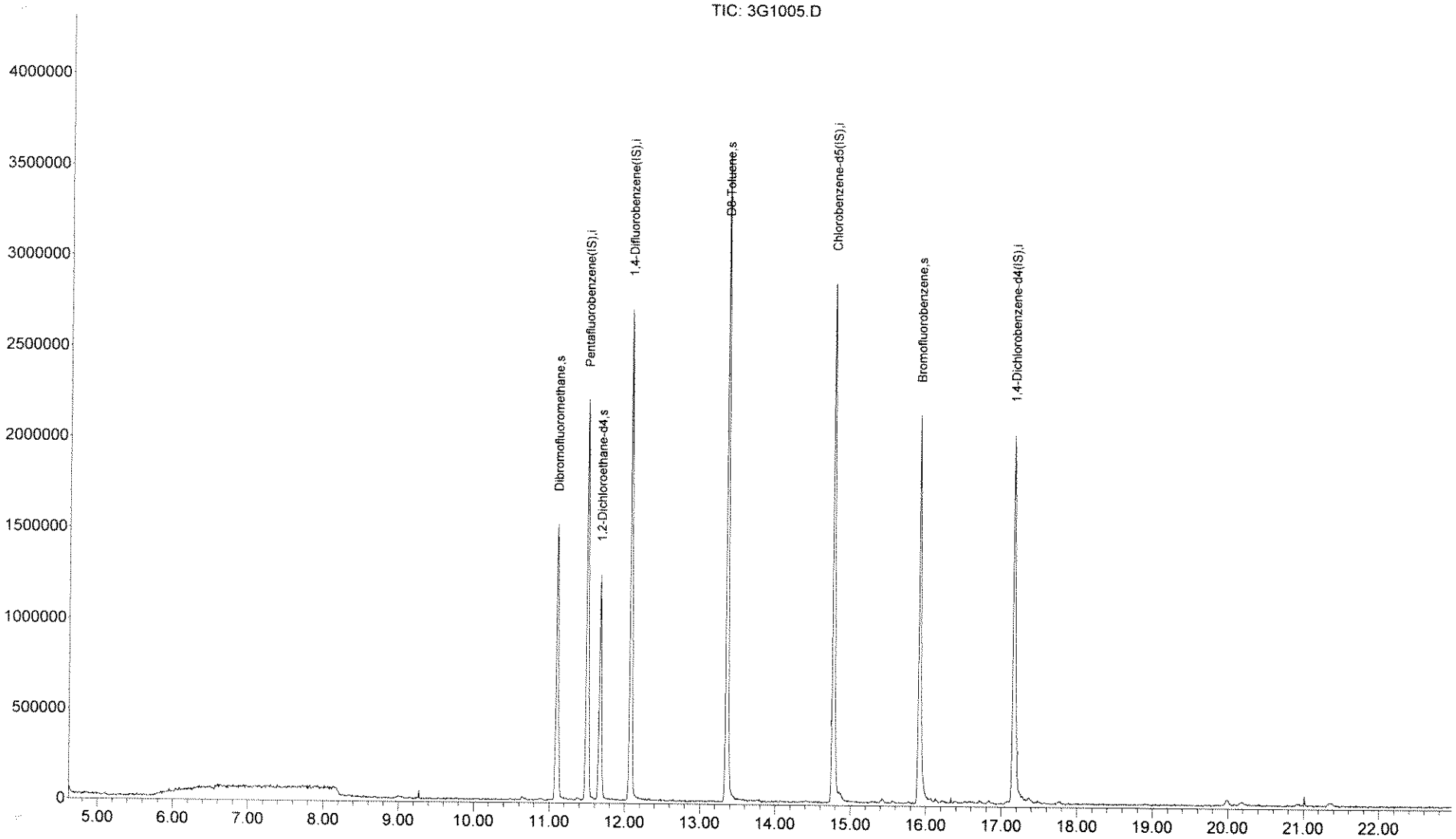
Quantitation Report

Data File : C:\HPCHEM\1\DATA\070113\3G1005.D
Acq On : 1 Jul 2013 14:19
Sample : 3F30006-BLK1
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 1 15:59 2013

Vial: 5
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00

Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1011.D
Acq On : 1 Jul 2013 17:19
Sample : a303499-01re1
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 2 10:03 2013

Vial: 11
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KB 7-2-13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1120353	50.00	ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	1911348	50.00	ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	1607549	50.00	ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.16	152	645976	50.00	ug/L	0.03

System Monitoring Compounds						
30) Dibromofluoromethane	11.10	113	899814	51.31	ug/L	0.02
Spiked Amount 50.000	Range 53 - 146		Recovery = 102.62%			
44) 1,2-Dichloroethane-d4	11.67	65	898069	58.55	ug/l	0.02
Spiked Amount 50.000	Range 45 - 174		Recovery = 117.10%			
56) D8-Toluene	13.36	98	2229523	47.79	ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 95.58%			
77) Bromofluorobenzene	15.91	95	866207	51.65	ug/L	0.03
Spiked Amount 50.000	Range 41 - 142		Recovery = 103.30%			

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D.	
6) Chloroethane	0.00	64		N.D.	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D.	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D.	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D.	
26) Propionitrile	0.00	54		N.D.	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	11.10	113	899814	51.31 ug/L	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D.	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1011.D Vial: 11
Acq On : 1 Jul 2013 17:19 Operator: kwb
Sample : a303499-01re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 10:03 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.67	65	898069	58.55 ug/l	96
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.36	98	2229523	47.79 ug/L	93
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.91	95	866207	51.65 ug/L #	85
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1011.D Vial: 11
Acq On : 1 Jul 2013 17:19 Operator: kwb
Sample : a303499-01re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 10:03 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

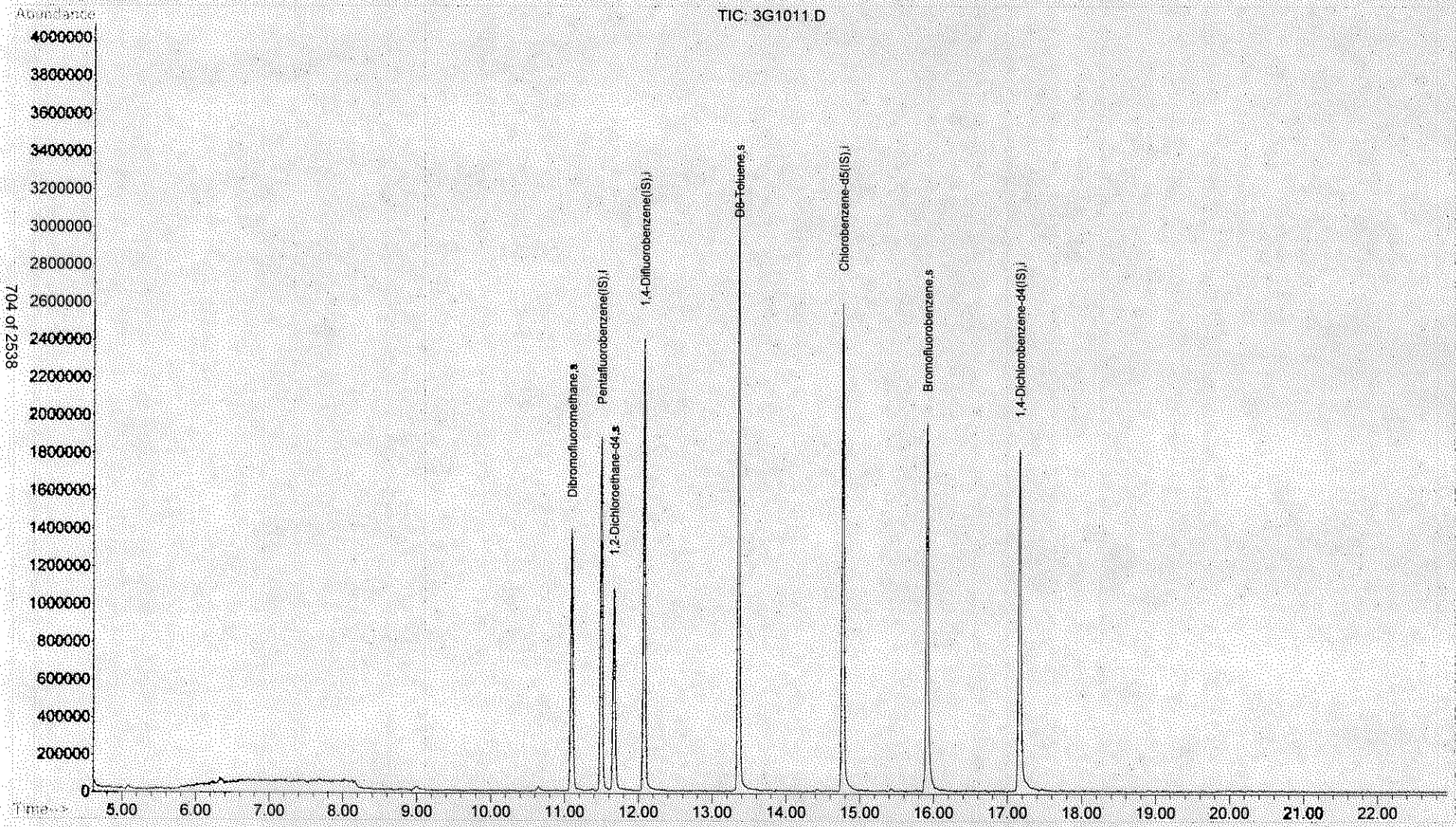
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\070113\3G1011.D Vial: 11
Acq On : 1 Jul 2013 17:19 Operator: kwb
Sample : a303499-01re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 10:03 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1012.D Vial: 12
Acq On : 1 Jul 2013 17:49 Operator: kwb
Sample : a303499-08re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:49 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KS 7-2-13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1358685	50.00 ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	2381785	50.00 ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	1958530	50.00 ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.16	152	783948	50.00 ug/L	0.03
System Monitoring Compounds					
30) Dibromofluoromethane	11.10	113	1071918	50.40 ug/L	0.02
Spiked Amount 50.000	Range 53 - 146		Recovery = 100.80%		
44) 1,2-Dichloroethane-d4	11.67	65	1107865	57.97 ug/l	0.02
Spiked Amount 50.000	Range 45 - 174		Recovery = 115.94%		
56) D8-Toluene	13.36	98	2672958	45.98 ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 91.96%		
77) Bromofluorobenzene	15.91	95	1035479	50.68 ug/L	0.02
Spiked Amount 50.000	Range 41 - 142		Recovery = 101.36%		

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D.	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D.	
6) Chloroethane	0.00	64	N.D.	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D.	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D.	
14) Iodomethane	0.00	142	N.D.	
15) Carbon disulfide	0.00	76	N.D.	
16) Methylene Chloride	0.00	84	N.D.	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D.	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D.	
26) Propionitrile	0.00	54	N.D.	
27) 2,2-Dichloropropane	0.00	77	N.D.	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	11.10	113	1071918	50.40 ug/L 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D.	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1012.D Vial: 12
Acq On : 1 Jul 2013 17:49 Operator: kwb
Sample : a303499-08re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:49 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D. d	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.67	65	1107865	57.97 ug/l	94
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D. d	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D. d	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.36	98	2672958	45.98 ug/L	93
59)	Toluene	0.00	92		N.D.	
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	0.00	106		N.D.	
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.91	95	1035479	50.68 ug/L #	85
79)	T-1,4-dichloro-2-butene	0.00	53		N.D.	
80)	N-Propylbenzene	0.00	91		N.D.	
82)	Bromobenzene	0.00	156		N.D.	
83)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
84)	2-Chlorotoluene	0.00	91		N.D.	
85)	4-Chlorotoluene	0.00	91		N.D.	
86)	1,2,4-Trimethylbenzene	0.00	105		N.D.	
87)	s-Butylbenzene	0.00	105		N.D.	
88)	tert-Butylbenzene	0.00	119		N.D.	
89)	p-Isopropyltoluene	0.00	119		N.D.	
90)	1,3-Dichlorobenzene	0.00	146		N.D.	
91)	1,4-Dichlorobenzene	0.00	146		N.D.	
92)	1,2-Dichlorobenzene	0.00	146		N.D.	
93)	N-Butylbenzene	0.00	91		N.D.	
94)	DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1012.D Vial: 12
Acq On : 1 Jul 2013 17:49 Operator: kwb
Sample : a303499-08re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:49 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

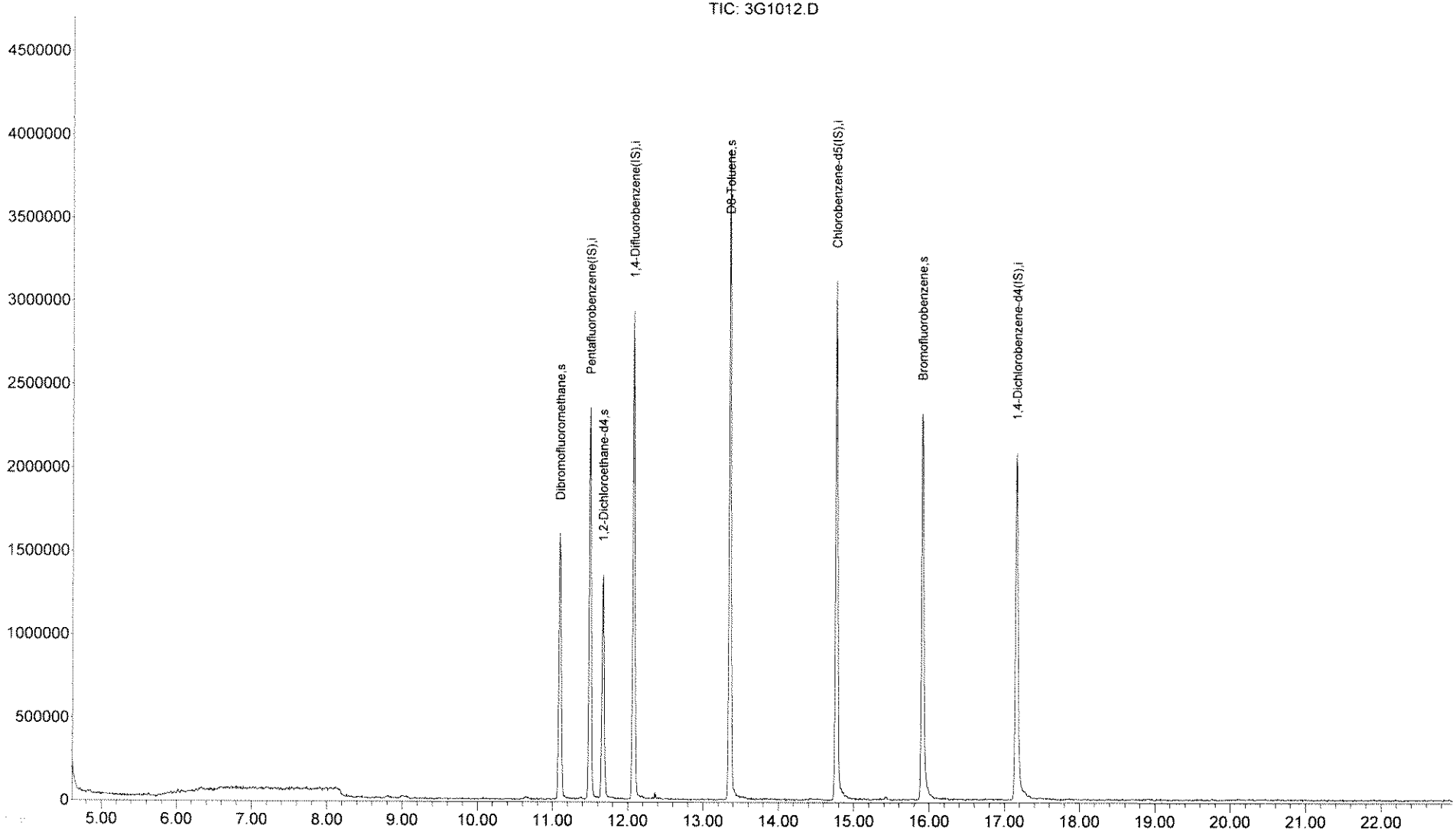
Quantitation Report

Data File : C:\HPCHEM\1\DATA\070113\3G1012.D
Acq On : 1 Jul 2013 17:49
Sample : a303499-08rel
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 2 11:49 2013

Vial: 12
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

TIC: 3G1012.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1013.D Vial: 13
Acq On : 1 Jul 2013 18:19 Operator: kwb
Sample : a303499-13re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:50 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KS 7-2-13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1343599	50.00	ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	2199580	50.00	ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	1903562	50.00	ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.16	152	764911	50.00	ug/L	0.03

System Monitoring Compounds						
30) Dibromofluoromethane	11.09	113	1094622	52.05	ug/L	0.02
Spiked Amount 50.000	Range 53 - 146		Recovery = 104.10%			
44) 1,2-Dichloroethane-d4	11.67	65	1123770	63.67	ug/l	0.02
Spiked Amount 50.000	Range 45 - 174		Recovery = 127.34%			
56) D8-Toluene	13.35	98	2594786	48.33	ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 96.66%			
77) Bromofluorobenzene	15.91	95	1063049	53.53	ug/L	0.03
Spiked Amount 50.000	Range 41 - 142		Recovery = 107.06%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.98	85	14974	0.54	ug/L	84
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D.		
6) Chloroethane	0.00	64		N.D.		
7) Trichlorofluoromethane	7.15	101	27849	0.79	ug/L	84
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D.	d	
10) Acetone	0.00	43		N.D.	d	
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D.		
14) Iodomethane	0.00	142		N.D.		
15) Carbon disulfide	0.00	76		N.D.		
16) Methylene Chloride	0.00	84		N.D.		
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.		
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	0.00	72		N.D.	d	
26) Propionitrile	0.00	54		N.D.		
27) 2,2-Dichloropropane	0.00	77		N.D.		
28) Methacrylonitrile	0.00	67		N.D.	d	
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	11.09	113	1094622	52.05	ug/L	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D.		
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1013.D Vial: 13
Acq On : 1 Jul 2013 18:19 Operator: kwb
Sample : a303499-13re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:50 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D.	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.67	65	1123770	63.67 ug/l	96
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.35	98	2594786	48.33 ug/L	93
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.91	95	1063049	53.53 ug/L #	84
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1013.D Vial: 13
Acq On : 1 Jul 2013 18:19 Operator: kwb
Sample : a303499-13re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:50 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

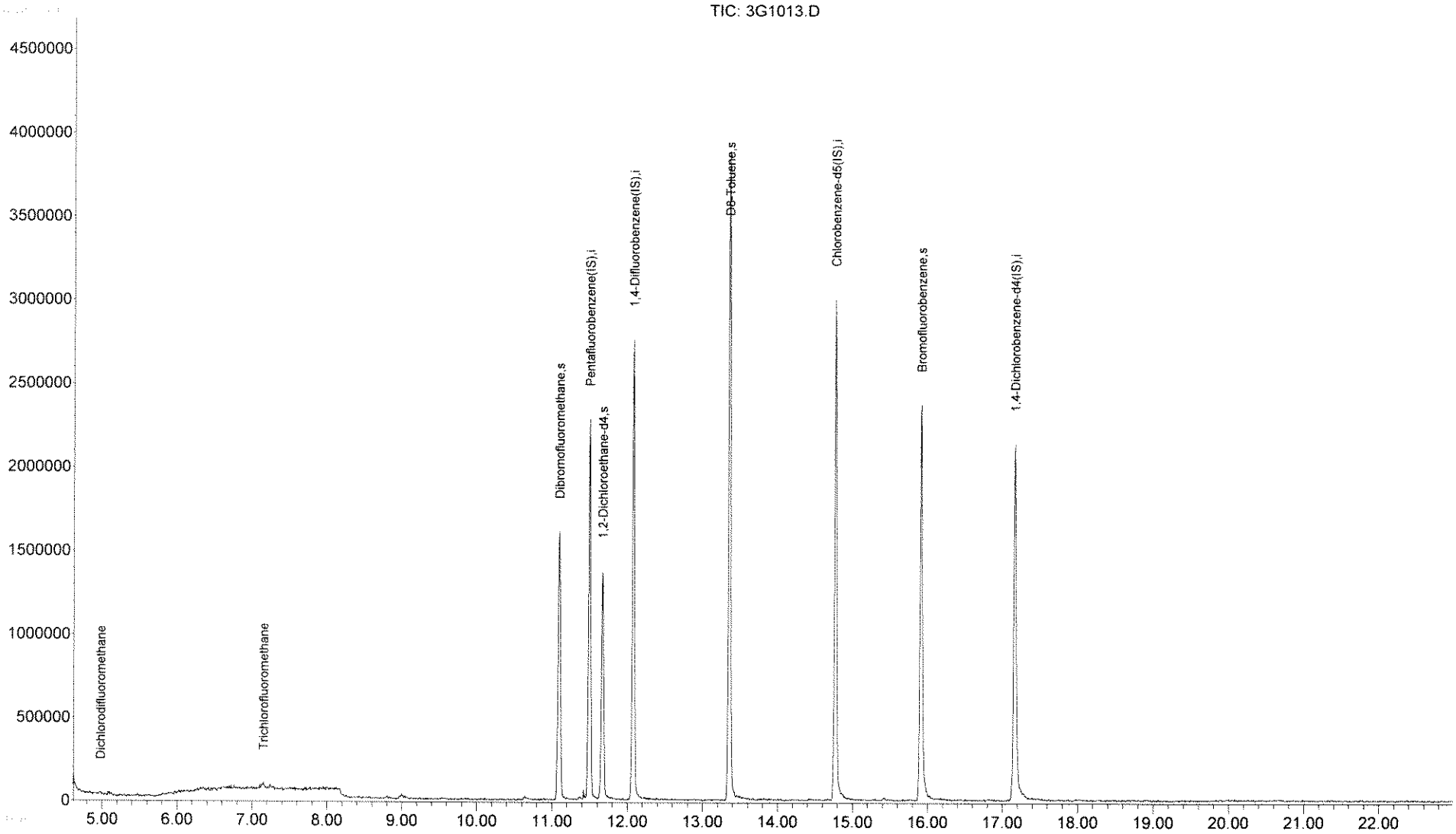
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\070113\3G1013.D
Acq On : 1 Jul 2013 18:19
Sample : a303499-13re1
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 2 11:50 2013

Vial: 13
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1014.D Vial: 14
Acq On : 1 Jul 2013 18:49 Operator: kwb
Sample : a303499-16re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:52 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KB 7-2-13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.50	168	1359041	50.00 ug/L	0.02
38) 1,4-Difluorobenzene(IS)	12.08	114	2299795	50.00 ug/L	0.02
58) Chlorobenzene-d5(IS)	14.77	117	1808826	50.00 ug/L	0.02
81) 1,4-Dichlorobenzene-d4(IS)	17.17	152	779425	50.00 ug/L	0.03
System Monitoring Compounds					
30) Dibromofluoromethane	11.10	113	1089877	51.23 ug/L	0.02
Spiked Amount 50.000	Range 53 - 146		Recovery = 102.46%		
44) 1,2-Dichloroethane-d4	11.67	65	1104827	59.87 ug/l	0.02
Spiked Amount 50.000	Range 45 - 174		Recovery = 119.74%		
56) D8-Toluene	13.36	98	2610058	46.50 ug/L	0.02
Spiked Amount 50.000	Range 41 - 146		Recovery = 93.00%		
77) Bromofluorobenzene	15.91	95	985907	52.25 ug/L	0.02
Spiked Amount 50.000	Range 41 - 142		Recovery = 104.50%		

Target Compounds				Qvalue
2) Dichlorodifluoromethane	0.00	85	N.D.	
3) Chloromethane	0.00	50	N.D.	
4) Vinyl Chloride	0.00	62	N.D.	
5) Bromomethane	0.00	94	N.D.	
6) Chloroethane	0.00	64	N.D.	
7) Trichlorofluoromethane	0.00	101	N.D.	
8) Trichlorotrifluoroethane	0.00	101	N.D.	
9) acrolein	0.00	56	N.D. d	
10) Acetone	0.00	43	N.D. d	
11) 1,1-Dichloroethene	0.00	96	N.D.	
12) 3-Chloropropene	0.00	76	N.D.	
13) Acetonitrile	0.00	41	N.D. d	
14) Iodomethane	0.00	142	N.D.	
15) Carbon disulfide	0.00	76	N.D.	
16) Methylene Chloride	0.00	84	N.D.	
17) Methyl tert-butyl ether	0.00	73	N.D.	
18) Acrylonitrile	0.00	53	N.D.	
19) T-1,2-Dichloroethene	0.00	96	N.D.	
20) Isopropyl Ether	0.00	45	N.D.	
21) C-1,2-Dichloroethene	0.00	96	N.D.	
22) 1,1-Dichloroethane	0.00	63	N.D.	
23) Vinyl Acetate	0.00	43	N.D.	
24) Chloroprene	0.00	53	N.D.	
25) 2-Butanone	0.00	72	N.D. d	
26) Propionitrile	0.00	54	N.D.	
27) 2,2-Dichloropropane	0.00	77	N.D.	
28) Methacrylonitrile	0.00	67	N.D. d	
29) Chloroform	0.00	83	N.D.	
31) Dibromofluoromethane	11.10	113	1089877	51.23 ug/L 100
32) Bromochloromethane	0.00	128	N.D.	
33) 1,1,1-Trichloroethane	0.00	97	N.D.	
34) 1,1-Dichloropropene	0.00	75	N.D.	
35) Diethyl ether	0.00	59	N.D.	
36) Methyl Acetate	0.00	74	N.D.	
37) Cyclohexane	0.00	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1014.D Vial: 14
Acq On : 1 Jul 2013 18:49 Operator: kwb
Sample : a303499-16re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:52 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.67	65	1104827	59.87 ug/l	93
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.36	98	2610058	46.50 ug/L	91
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.91	95	985907	52.25 ug/L #	83
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\070113\3G1014.D Vial: 14
Acq On : 1 Jul 2013 18:49 Operator: kwb
Sample : a303499-16re1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 2 11:52 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

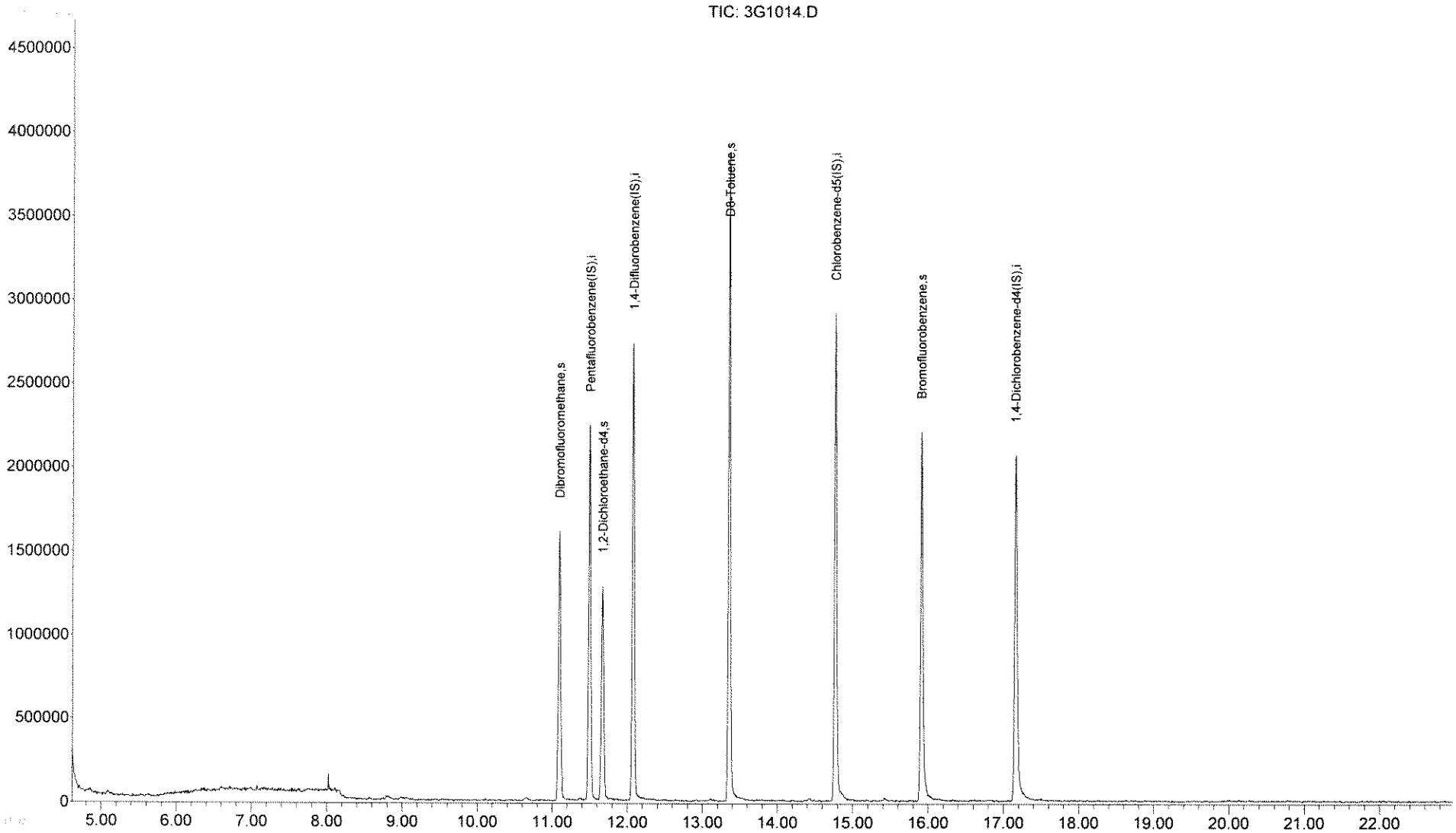
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\070113\3G1014.D
Acq On : 1 Jul 2013 18:49
Sample : a303499-16re1
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 2 11:52 2013

Vial: 14
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration



ANALYSIS SEQUENCE

AA22782

Instrument: OVGCMS2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA22782-TUN1	QC		1		A3A0082	A2J0047	
AA22782-ICB1	QC		2			A2L0460	
AA22782-CAL1	QC		3		A3A0031	A2L0460	
AA22782-CAL2	QC		4		A3A0032	A2L0460	
AA22782-CAL3	QC		5		A3A0033	A2L0460	
AA22782-CAL4	QC		6		A3A0034	A2L0460	
AA22782-CAL5	QC		7		A3A0035	A2L0460	
AA22782-CAL6	QC		8		A3A0036	A2L0460	
AA22782-CAL7	QC		9		A3A0037	A2L0460	
AA22782-SCV1	QC		10		A3A0038	A2L0460	
AA22782-SCV2	QC		11		A3A0039	A2L0460	

Samples Loaded By Date

Data Processed By Date

Internal Standards	CVS RT	-0.5	0.5
PENTAFLUOROBENZENE	11.31	10.81	11.81
1,4-DIFLUOROBENZENE	11.89	11.39	12.39
CHLOROBENZENE	14.56	14.06	15.06
I,4-DICHLOROBENZENE	16.89	16.39	17.39

Internal Standard	CVS Response	50%	200%
Pentafluorobenzene	1226866	613433	2453732
1,4-Difluorobenzene	1885250	942625	3770500
Chlorobenzene	1630693	815347	3261386
1,4-Dichlorobenzene	801552	400776	1603104

LG
Y/17/13

SEO AA22782

Volatiles
EPA Method 624, SW-846 Method 8260
SW-846 5030B, SW-846 5035

H2O Curve

(500)

Tune Start Date/Time: 1-15-13 1323
Tune End Date/Time: 1-16-13 0123
Preventive Maintenance: Purge Valve
Method: 8260/624
Workgroup: —

Surrogate ID: AZL0488
Internal ID: AZL0459/460
LCS Acrolein 2°: AZL0463/1
LCS 8260 2°: AZL0462/1
Other Standard: A3D0082/1558

8260 Mix: AZL0208 / AZL0209 (500)
8260 Add: AZL0464
8260 Ac/Ac: AZL0465
8260 Gases: A3A0013 / A3A0014 (500)
Instrument #: 1, 2, 3, or 4 (500)

SEO AA22782

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
2AJ001	1323	AB5006	1ul/5ml	1	NA	NA	KT	AA22782 -Tun1	✓
2AJ002	1354	ICB	5ml	2			KT	AA22782 -ICB1	✓
2AJ003	1434	1ppb	5ml	3			KT	AA22782 -CAL1	✓ A3A0031
2AJ004	1505	5ppb	5ml	4			KT	AA22782-CAL2	✓ A3A0032
2AJ005	1537	20ppb	5ml	5			KT	AA22782-CAL3	✓ A3A0033
2AJ006	1608	50ppb	5ml	6			KT	AA22782-CAL4	✓ A3A0034
2AJ007	1639	100ppb	5ml	7			KT	AA22782-CAL5	✓ A3A0035
2AJ008	1710	200ppb	5ml	8			KT	AA22782-CAL6	✓ A3A0036
2AJ009	1741	400ppb (Ketones)	5ml	9			KT	AA22782-CAL7	✓ A3A0037
2AJ010	:	Blk	5ml	10			KT	—	no
2AJ011	:	Blk	5ml	11			KT	—	no
2AJ012	1914	SW1 50ppb (000)	5ml	12			KT	AA22782 -SW1	✓ A3A0038
2AJ013	1945	SW2 100ppb	5ml	13			KT	AA22782-SW2	✓ A3A0039
	:								
	:								
	:								
	:								
	:								
	:								
	:								

KT 1/16/13

Response Factor Report OVGCMS2

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Initial Calibration

KT
1-16-13

Calibration Files
1 =2AJ003.D 5 =2AJ004.D 20 =2AJ005.D
50 =2AJ006.D 100 =2AJ007.D 200 =2AJ008.D

		Compound	1	5	20	50	100	200	Avg	%RSD	
1)	i	Pentafluorobenzene(IS	----------	----------	----------	ISTD	----------	----------	----------		
2)		Dichlorodifluoromet	0.849	0.855	0.889	0.846	0.869	0.789	0.850	3.93	
3)	**	Chloromethane	1.257	1.159	1.031	0.982	1.039	0.937	1.068	11.16	
4)	*	Vinyl Chloride	1.271	1.083	1.066	0.988	1.041	0.912	1.060	11.34	
5)		Bromomethane	0.510	0.508	0.414	0.412	0.369	----	0.442	14.27	
6)		Chloroethane	0.420	0.437	0.355	0.357	0.314	----	0.376	13.52	
7)		Trichlorofluorometh	0.803	0.819	0.821	0.791	0.863	0.725	0.804	5.65	
8)		Trichlorotrifluoroe	0.361	0.369	0.381	0.370	0.381	0.416	0.380	5.11	
9)		acrolein	0.072	0.060	0.050	0.057	0.060	0.061	0.060#	12.00	
10)		Acetone	----	0.256	0.218	0.199	0.210	0.191	0.209	12.74	400
11)	*m	1,1-Dichloroethene	0.309	0.288	0.279	0.267	0.294	0.324	0.294	7.02	
12)		3-Chloropropene	0.455	0.418	0.387	0.364	0.367	0.343	0.389	10.59	
13)		Acetonitrile	0.097	0.080	0.077	0.080	0.081	0.080	0.082#	8.16	400
14)		Iodomethane	0.664	0.640	0.584	0.698	0.846	0.862	0.722	14.53	400
15)		Carbon disulfide	2.065	1.752	1.638	1.547	1.526	1.427	1.615	14.77	400
16)		Methylene Chloride	0.652	0.584	0.514	0.498	0.547	0.582	0.563	9.93	
17)		Methyl tert-butyl e	1.080	1.003	0.923	0.911	1.211	1.304	1.072	14.82	
18)		Acrylonitrile	0.202	0.176	0.169	0.176	0.175	0.165	0.177	7.38	
19)		T-1,2-Dichloroethen	0.478	0.540	0.503	0.480	0.534	0.563	0.516	6.72	
20)		Isopropyl Ether	1.765	1.928	1.753	1.675	2.156	2.185	1.910	11.40	
21)		C-1,2-Dichloroethen	0.511	0.554	0.512	0.493	0.546	0.584	0.533	6.34	
22)	**	1,1-Dichloroethane	1.002	1.031	0.933	0.883	0.985	1.029	0.977	5.97	
23)		Vinyl Acetate	2.285	1.919	1.874	1.808	1.818	1.669	1.826	14.46	400
24)		Chloroprene	1.352	1.071	1.071	1.001	0.994	0.954	1.046	14.30	400
25)		2-Butanone	----	0.054	0.053	0.056	0.056	0.054	0.054#	2.83	400
26)		Propionitrile	0.077	0.075	0.072	0.067	0.060	----	0.070#	9.75	
27)		2,2-Dichloropropane	0.899	0.717	0.687	0.645	0.725	0.788	0.743	12.08	
28)		Methacrylonitrile	0.231	0.207	0.192	0.178	0.161	----	0.194	13.91	
29)	*	Chloroform	0.885	0.903	0.815	0.790	0.855	0.895	0.857	5.35	
30)	s	Dibromofluoromethan	----	0.740	0.674	0.503	0.626	0.626	0.634	13.69	
31)		Dibromofluoromethan	----	0.740	0.674	0.503	0.626	0.626	0.634	13.69	
32)		Bromochloromethane	0.311	0.284	0.276	0.259	0.277	0.279	0.281	5.99	
33)		1,1,1-Trichloroetha	0.646	0.640	0.635	0.595	0.677	0.740	0.656	7.47	
34)		1,1-Dichloropropene	0.688	0.676	0.665	0.634	0.702	0.759	0.687	6.09	
35)		Diethyl ether	0.360	0.350	0.308	0.315	0.323	0.357	0.335	6.81	
36)		Methyl Acetate	0.063	0.090	0.069	0.071	0.072	0.073	0.073#	12.46	
37)		Cyclohexane	1.119	1.022	1.034	0.962	0.945	0.960	1.007	6.53	
38)	i	1,4-Difluorobenzene(I	----------	----------	----------	ISTD	----------	----------	----------		
39)		Methyl Cyclohexane	0.603	0.533	0.508	0.485	0.501	0.552	0.530	8.07	
40)		Carbon Tetrachlorid	0.323	0.343	0.342	0.338	0.385	0.446	0.363	12.59	
41)		1,2-Dichloroethane	0.435	0.417	0.369	0.370	0.435	0.511	0.423	12.41	
42)	m	Benzene	1.065	1.191	1.055	1.017	1.107	1.207	1.107	6.94	
43)		Isobutyl Alcohol	0.034	0.027	0.027	0.027	0.030	0.031	0.029#	10.18	
44)	s	1,2-Dichloroethane-	----	0.479	0.411	0.327	0.412	0.472	0.420	14.56	
45)		1,2-Dichloroethane-	----	0.479	0.411	0.327	0.412	0.472	0.420	14.56	
46)	m	Trichloroethene	0.332	0.339	0.316	0.300	0.341	0.370	0.333	7.15	
47)	*	1,2-Dichloropropane	0.348	0.358	0.314	0.314	0.348	0.383	0.344	7.78	
48)		Methyl Methacrylate	0.092	0.092	0.093	0.097	0.103	0.107	0.096#	7.50	400
49)		1,4-Dioxane	0.004	0.003	0.003	0.003	0.004	0.004	0.004#	14.05	400
50)		Bromodichloromethan	0.438	0.417	0.369	0.365	0.425	0.485	0.416	10.80	
51)		Dibromomethane	0.199	0.198	0.173	0.179	0.213	0.244	0.201	12.76	
52)		4-Methyl-2-Pentanon	0.036	0.047	0.045	0.045	0.047	0.050	0.044#	9.99	400

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report OVGCMS2

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Initial Calibration

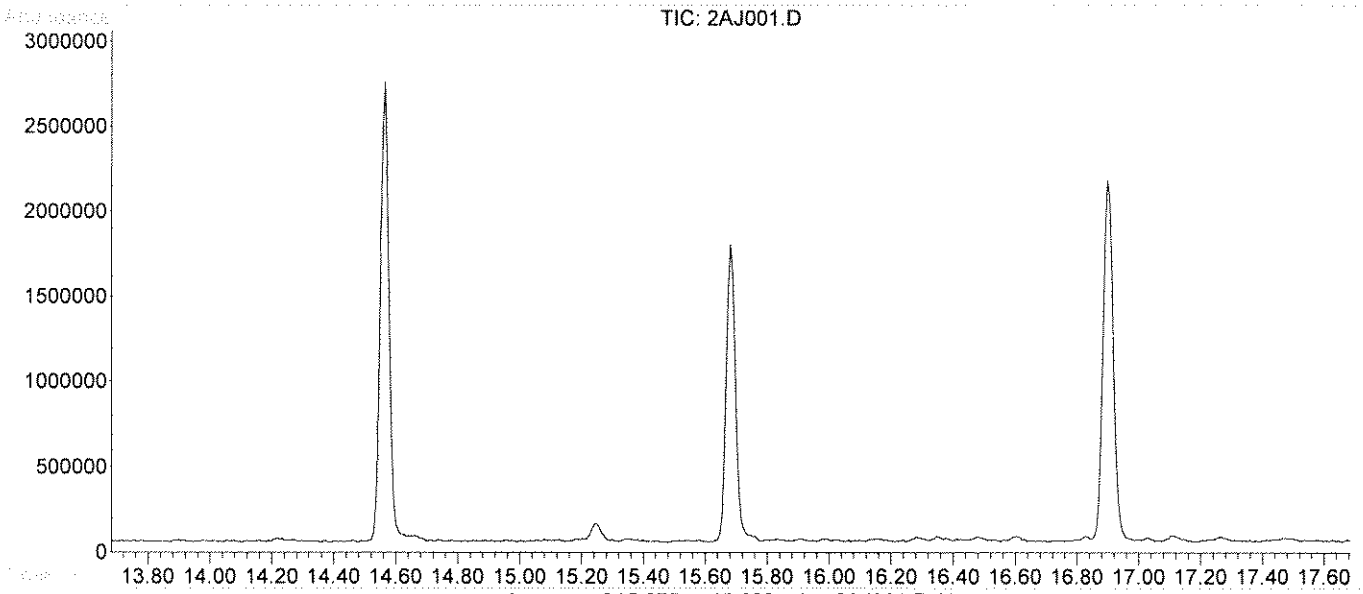
Calibration Files
1 =2AJ003.D 5 =2AJ004.D 20 =2AJ005.D
50 =2AJ006.D 100 =2AJ007.D 200 =2AJ008.D

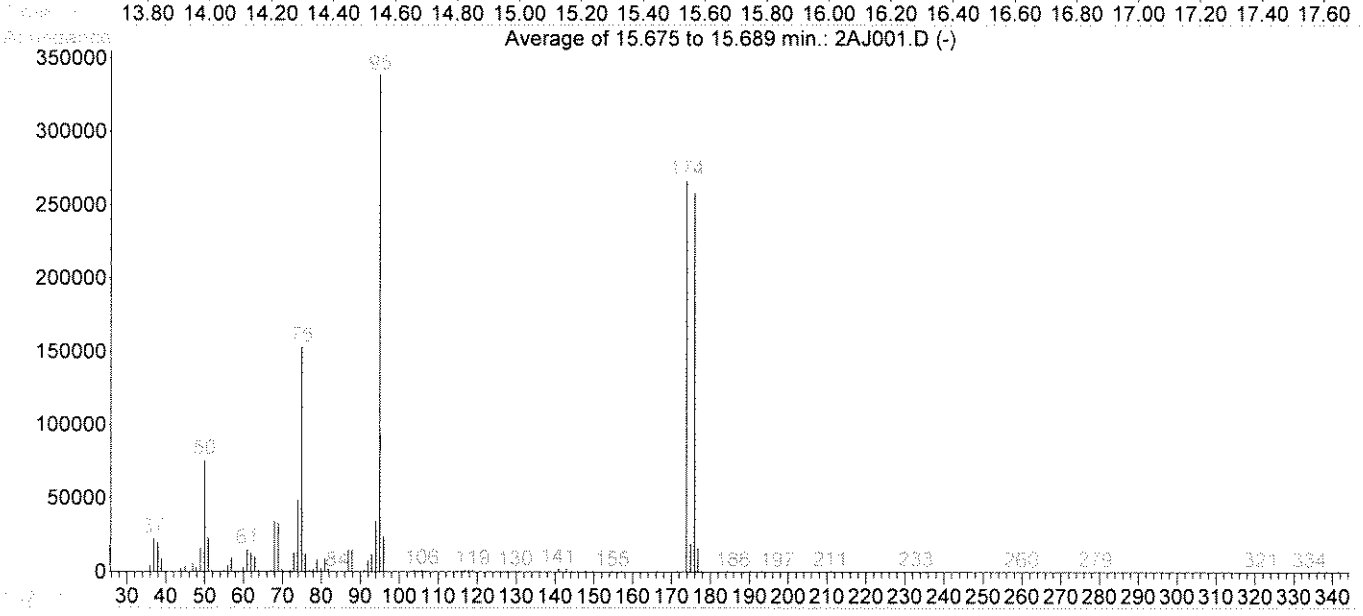
		Compound	1	5	20	50	100	200	Avg	%RSD	
53)		2-Chloroethyl vinyl	0.007	0.005	0.006	0.005	0.005	0.005	0.006#	14.90	
54)		2-Hexanone	0.362	0.332	0.294	0.295	0.308	0.313	0.309	10.45	400.
55)		C-1,3-Dichloroprope	0.575	0.552	0.501	0.500	0.571	0.649	0.558	9.91	
56)	s	D8-Toluene		1.447	1.250	0.990	1.178	1.213	1.216	13.45	
57)		D8-Toluene		1.447	1.250	0.990	1.178	1.213	1.216	13.45	
58)	i	Chlorobenzene-d5(IS)	----------ISTD----------								
59)	m*	Toluene	0.933	0.858	0.782	0.758	0.868	0.920	0.853	8.34	
60)		Ethyl Methacrylate	0.626	0.500	0.517	0.513	0.524	0.499	0.513	12.21	400.
61)		T-1,3-Dichloroprope	0.602	0.514	0.470	0.455	0.523	0.572	0.523	10.89	
62)		1,1,2-Trichloroetha	0.329	0.277	0.253	0.253	0.298	0.329	0.290	11.96	
63)		1,3-Dichloropropane	0.572	0.536	0.469	0.467	0.551	0.612	0.534	10.73	
64)		Tetrachloroethene	0.260	0.292	0.277	0.255	0.293	0.320	0.283	8.47	
65)		Dibromochloromethan	0.469	0.372	0.350	0.340	0.415	0.465	0.402	14.11	
66)		1,2-Dibromoethane	0.337	0.315	0.298	0.293	0.346	0.390	0.330	11.04	
67)	**m	Chlorobenzene	1.161	0.993	0.910	0.869	0.981	1.019	0.989	10.24	
68)		1,1,1,2-Tetrachloro	0.428	0.353	0.324	0.317	0.371	0.401	0.366	11.86	
69)	*	Ethylbenzene	0.521	0.478	0.440	0.430	0.490	0.523	0.480	8.21	
70)		m-xylene & p-xylene	0.671	0.604	0.570	0.544	0.592	0.577	0.593	7.32	
71)		O-Xylene	0.662	0.642	0.577	0.549	0.634	0.675	0.623	7.99	
72)	**	Bromoform	0.247	0.213	0.217	0.213	0.267	0.296	0.242	14.16	
73)		Styrene	1.188	1.035	0.948	0.929	1.064	1.115	1.046	9.43	
74)		Isopropylbenzene	1.676	1.588	1.436	1.388	1.578	1.608	1.546	7.11	
75)		1,2,3-Trichloroprop	0.545	0.455	0.420	0.425	0.476	0.477	0.466	9.77	
76)	**	1,1,2,2-Tetrachloro	0.420	0.361	0.338	0.319	0.392	0.398	0.371	10.35	
77)	s	Bromofluorobenzene		0.690	0.565	0.457	0.549	0.603	0.573	14.79	
78)		Bromofluorobenzene		0.690	0.565	0.457	0.549	0.603	0.573	14.79	
79)		T-1,4-dichloro-2-bu	0.172	0.147	0.137	0.136	0.146	0.141	0.144	9.54	400.
80)		N-Propylbenzene	2.071	1.818	1.717	1.658	1.872	1.884	1.837	7.89	
81)		Pentachloroethane	0.319	0.296	0.291	0.282	0.291	0.277	0.293	4.97	
82)	i	1,4-Dichlorobenzene-d	----------ISTD----------								
83)		Bromobenzene	1.079	0.876	0.746	0.770	0.855	0.911	0.873	13.64	
84)		1,3,5-Trimethylbenz	3.154	2.599	2.301	2.285	2.502	2.605	2.574	12.30	
85)		2-Chlorotoluene	2.970	2.475	2.152	2.099	2.311	2.375	2.397	13.06	
86)		4-Chlorotoluene	2.990	2.459	2.135	2.126	2.336	2.467	2.419	13.12	
87)		1,2,4-Trimethylbenz	2.981	2.668	2.222	2.245	2.442	2.495	2.509	11.35	
88)		s-Butylbenzene	3.825	3.385	3.157	3.162	3.453	3.472	3.409	7.24	
89)		tert-Butylbenzene	2.588	2.278	2.082	2.069	2.303	2.378	2.283	8.51	
90)		p-Isopropyltoluene	2.915	2.647	2.350	2.338	2.608	2.681	2.590	8.44	
91)		1,3-Dichlorobenzene	2.080	1.662	1.426	1.438	1.610	1.679	1.649	14.42	
92)		1,4-Dichlorobenzene	1.955	1.538	1.359	1.375	1.554	1.612	1.566	13.81	
93)		1,2-Dichlorobenzene	1.807	1.516	1.343	1.340	1.512	1.587	1.518	11.44	
94)		N-Butylbenzene	2.940	2.503	2.316	2.272	2.519	2.623	2.529	9.53	
95)		DBCP	0.138	0.123	0.101	0.105	0.129	0.142	0.123	13.75	
96)		Naphthalene	2.226	1.985	1.612	1.602	1.938	2.170	1.922	13.90	
97)		1,2,4-Trichlorobenz	1.098	0.870	0.786	0.792	0.925	1.038	0.918	13.99	
98)		Hexachlorobutadiene	0.496	0.410	0.380	0.376	0.443	0.522	0.438	13.86	
99)		1,2,3-Trichlorobenz	0.821	0.796	0.684	0.701	0.825	0.923	0.792	11.16	

(#) = Out of Range ### Number of calibration levels exceeded format ###

BFB

Data File : C:\HPCHEM\1\DATA\011513\2AJ001.D Vial: 1
Acq On : 15 Jan 2013 13:23 Operator: kat
Sample : aa22782-tun1 Inst : OVGCMS2
Misc : bfb 50 ng Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050





AutoFind: Scans 1574, 1575, 1576; Background Corrected with Scan 1565

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	75770	PASS
75	95	30	60	45.2	153060	PASS
95	95	100	100	100.0	338345	PASS
96	95	5	9	7.0	23848	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.8	266645	PASS
175	174	5	9	7.2	19211	PASS
176	174	95	101	96.9	258347	PASS
177	176	5	9	6.3	16312	PASS

KG 1-16-13

2AJ001.D W1301050.M Wed Jan 16 13:14:16 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ002.D Vial: 2
Acq On : 15 Jan 2013 13:54 Operator: kat
Sample : aa22782-icb1 Inst : OVGCMS2
Misc : icb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:14 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1193112	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1996511	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1681637	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	757424	50.00 ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.90	113	642994	42.51 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 85.02%		
44) 1,2-Dichloroethane-d4	11.47	65	600390	35.76 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 71.52%		
56) D8-Toluene	13.17	98	1920954	39.57 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 79.14%		
77) Bromofluorobenzene	15.68	95	759989	39.44 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 78.88%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D. d	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D. d	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D. d	
26) Propionitrile	0.00	54		N.D. d	
27) 2,2-Dichloropropane	0.00	77		N.D.	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.90	113	642994	42.51 ug/L	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ002.D Vial: 2
Acq On : 15 Jan 2013 13:54 Operator: kat
Sample : aa22782-icb1 Inst : OVGCMS2
Misc : icb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:14 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.47	65	600390	35.76 ug/l	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D. d	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D.	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.17	98	1920954	39.57 ug/L	98
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.68	95	759989	39.44 ug/L #	88
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
81) Pentachloroethane	0.00	167		N.D.	
83) Bromobenzene	0.00	156		N.D.	
84) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
85) 2-Chlorotoluene	0.00	91		N.D.	
86) 4-Chlorotoluene	0.00	91		N.D.	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) tert-Butylbenzene	0.00	119		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,3-Dichlorobenzene	0.00	146		N.D.	
92) 1,4-Dichlorobenzene	0.00	146		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D. d	
94) N-Butylbenzene	0.00	91		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ002.D Vial: 2
Acq On : 15 Jan 2013 13:54 Operator: kat
Sample : aa22782-icb1 Inst : OVGCMS2
Misc : icb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:14 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

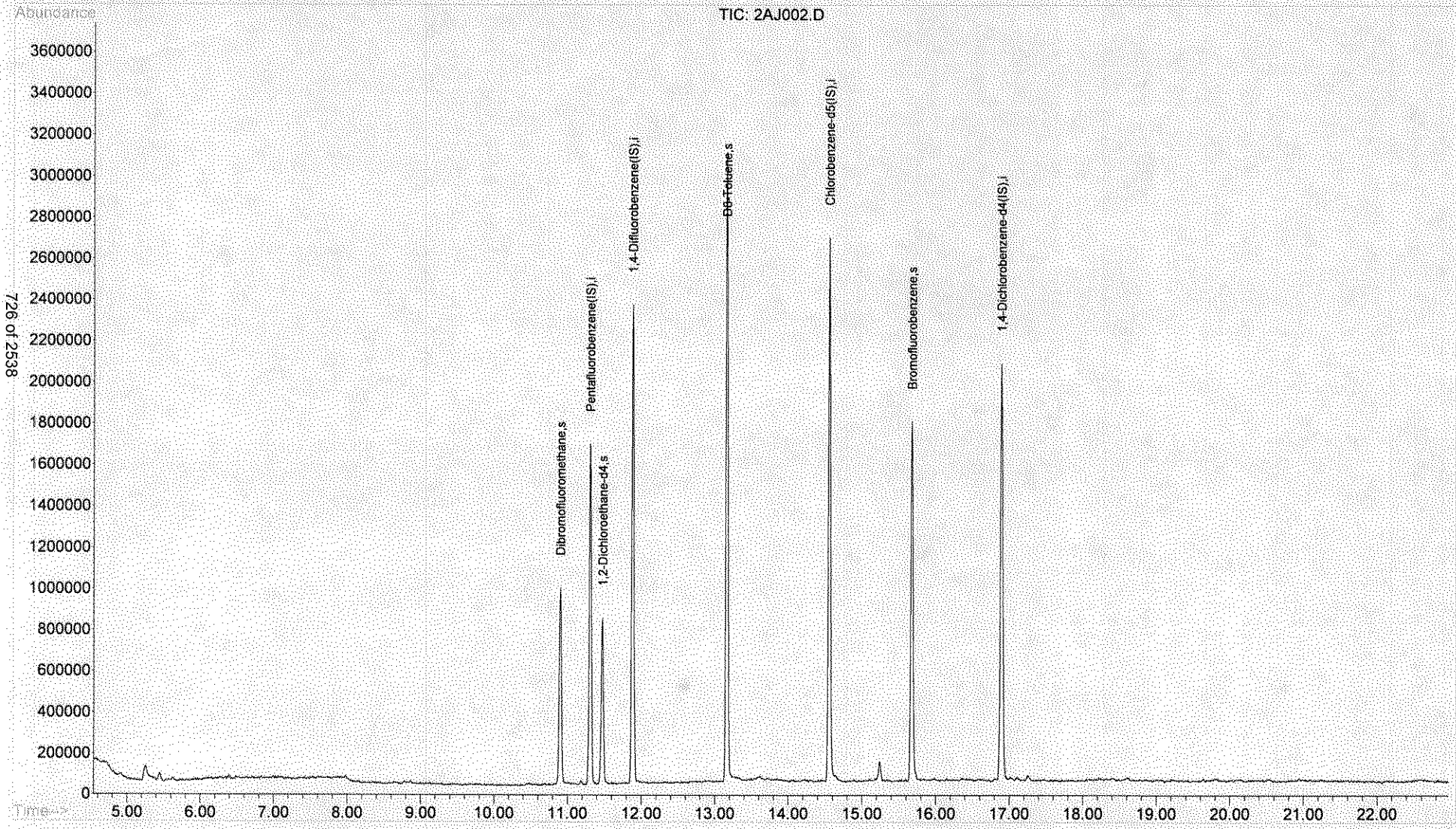
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	0.00	75		N.D. d	
96) Naphthalene	0.00	128		N.D. d	
97) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
98) Hexachlorobutadiene	0.00	225		N.D. d	
99) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ002.D Vial: 2
Acq On : 15 Jan 2013 13:54 Operator: kat
Sample : aa22782-icb1 Inst : OVGCMS2
Misc : icb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:14 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration



CC ISTD Areas

CC Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D
Date Acquired: 15 Jan 2013 16:39

ISTD Name	Response
Pentafluorobenzene(IS)	1226870
1,4-Difluorobenzene(IS)	1885250
Chlorobenzene-d5(IS)	1630690
1,4-Dichlorobenzene-d4(IS)	801552

Surrogates

Dibromofluoromethane
1,2-Dichloroethane-d4
D8-Toluene
Bromofluorobenzene

KT 1/16/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

1/16/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1222602m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	2006218	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1672425	50.00	ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.90	152	759239m	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	24022	1.43	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 2.86%#			
44) 1,2-Dichloroethane-d4	11.47	65	25937	1.23	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 2.46%#			
56) D8-Toluene	13.16	98	73008	1.58	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 3.16%#			
77) Bromofluorobenzene	15.67	95	42587	2.16	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 4.32%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.82	85	20761	1.25	ug/L	93
3) Chloromethane	5.36	50	30747	1.54	ug/L	95
4) Vinyl Chloride	5.60	62	31067	1.44	ug/L	98
5) Bromomethane	6.40	94	12465	1.07	ug/L	93
6) Chloroethane	6.68	64	10280	0.70	ug/L	79
7) Trichlorofluoromethane	6.97	101	19630	0.68	ug/L	86
8) Trichlorotrifluoroethane	7.94	101	8835	0.48	ug/L	89
9) acrolein	8.43	56	17630	55.06	ug/L	92
10) Acetone	8.86	43	15062	2.92	ug/L	80
11) 1,1-Dichloroethene	7.89	96	7552	0.50	ug/L #	67
12) 3-Chloropropene	8.62	76	11137	1.47	ug/L	66
13) Acetonitrile	9.51	41	23677	13.17	ug/L	90
14) Iodomethane	8.16	142	16230	0.97	ug/L	84
15) Carbon disulfide	7.98	76	50503	0.93	ug/L	90
16) Methylene Chloride	8.77	84	15935	1.08	ug/L	96
17) Methyl tert-butyl ether	9.15	73	26402	0.72	ug/L	72
18) Acrylonitrile	9.88	53	49473	12.04	ug/L	97
19) T-1,2-Dichloroethene	9.01	96	11684	0.89	ug/L	88
20) Isopropyl Ether	9.59	45	43157	0.65	ug/L	94
21) C-1,2-Dichloroethene	10.43	96	12492	0.86	ug/L	98
22) 1,1-Dichloroethane	9.82	63	24505	0.81	ug/L	94
23) Vinyl Acetate	10.05	43	55862	1.05	ug/L	99
24) Chloroprene	9.78	53	33048	1.16	ug/L	83
25) 2-Butanone	11.02	72	1910	1.68	ug/L #	1
26) Propionitrile	11.37	54	18877	10.69	ug/L	100
27) 2,2-Dichloropropane	10.56	77	21994	0.86	ug/L	86
28) Methacrylonitrile	11.38	67	56590	11.73	ug/L	65
29) Chloroform	10.70	83	21634	0.74	ug/L	84
31) Dibromofluoromethane	10.91	113	24022	1.43	ug/L	100
32) Bromochloromethane	10.67	128	7593	1.04	ug/L	87
33) 1,1,1-Trichloroethane	10.97	97	15794	0.65	ug/L #	2
34) 1,1-Dichloropropene	11.09	75	16828	0.80	ug/L #	47
35) Diethyl ether	7.54	59	8792	0.53	ug/l #	71
36) Methyl Acetate	8.99	74	1535	0.89	ug/l	40
37) Cyclohexane	10.68	56	27367	1.08	ug/l	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.90	55	24182	1.10 ug/l #	85
40) Carbon Tetrachloride	10.89	117	12954	0.59 ug/L	95
41) 1,2-Dichloroethane	11.54	62	17443	0.68 ug/L	84
42) Benzene	11.35	78	42751	0.77 ug/L #	38
43) Isobutyl Alcohol	11.38	43	27230m	18.24 ug/L	68
45) 1,2-Dichloroethane-d4	11.47	65	25937	1.23 ug/l	96
46) Trichloroethene	11.89	130	13313	0.93 ug/L #	1
47) 1,2-Dichloropropane	12.41	63	13979	0.90 ug/L	78
48) Methyl Methacrylate	12.49	100	3691	1.15 ug/L #	1
49) 1,4-Dioxane	12.61	88	3611	30.49 ug/L #	56
50) Bromodichloromethane	12.43	83	17556	0.81 ug/L #	100
51) Dibromomethane	12.33	93	7991	0.77 ug/L #	74
52) 4-Methyl-2-Pentanone	13.50	100	1449	1.00 ug/L #	1
53) 2-Chloroethyl vinyl ether	13.00	63	282m	1.41 ug/L	72
54) 2-Hexanone	14.20	43	14514	1.30 ug/L	90
55) C-1,3-Dichloropropene	12.99	75	23054m	0.90 ug/L	88
57) D8-Toluene	13.16	98	73008	1.58 ug/L	98
59) Toluene	13.21	92	31206	1.01 ug/L	85
60) Ethyl Methacrylate	13.60	69	20933	1.31 ug/L #	64
61) T-1,3-Dichloropropene	13.55	75	20147	0.92 ug/L	84
62) 1,1,2-Trichloroethane	13.71	97	11004	1.04 ug/L	92
63) 1,3-Dichloropropane	13.96	76	19127	0.92 ug/L	83
64) Tetrachloroethene	13.57	164	8713	0.86 ug/L	96
65) Dibromochloromethane	13.89	129	15684	1.05 ug/L	91
66) 1,2-Dibromoethane	14.15	107	11261	0.93 ug/L	86
67) Chlorobenzene	14.58	112	38838	1.22 ug/L #	59
68) 1,1,1,2-Tetrachloroethane	14.61	131	14315	1.05 ug/L #	1
69) Ethylbenzene	14.54	106	17420	1.02 ug/L	99
70) m-xylene & p-xylene	14.66	106	44914	2.16 ug/L	79
71) O-Xylene	15.07	106	22156	1.14 ug/L	97
72) Bromoform	15.22	173	8252m	0.86 ug/L	98
73) Styrene	15.12	104	39735	1.06 ug/L	90
74) Isopropylbenzene	15.34	105	56058	1.07 ug/L	99
75) 1,2,3-Trichloropropane	16.00	75	18223	1.02 ug/L	85
76) 1,1,2,2-Tetrachloroethane	15.81	83	14039	0.91 ug/L	90
78) Bromofluorobenzene	15.67	95	42587	2.16 ug/L #	79
79) T-1,4-dichloro-2-butene	16.00	53	5737m	1.04 ug/L	87
80) N-Propylbenzene	15.75	91	69285	1.09 ug/L	99
81) Pentachloroethane	16.37	167	10663	1.23 ug/l #	64
83) Bromobenzene	15.84	156	16384	1.12 ug/L	82
84) 1,3,5-Trimethylbenzene	15.91	105	47894	1.04 ug/L	92
85) 2-Chlorotoluene	15.98	91	45093	1.13 ug/L	97
86) 4-Chlorotoluene	16.14	91	45401	1.16 ug/L	95
87) 1,2,4-Trimethylbenzene	16.35	105	45271	0.97 ug/L	98
88) s-Butylbenzene	16.47	105	58082	1.09 ug/L	90
89) tert-Butylbenzene	16.28	119	39301	1.10 ug/L	93
90) p-Isopropyltoluene	16.59	119	44271	0.99 ug/L	97
91) 1,3-Dichlorobenzene	16.83	146	31588	1.32 ug/L	93
92) 1,4-Dichlorobenzene	16.91	146	29689	1.12 ug/L	73
93) 1,2-Dichlorobenzene	17.47	146	27446	1.22 ug/L	94
94) N-Butylbenzene	17.10	91	44650	0.94 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.62	75	2098	0.76 ug/L	72
96) Naphthalene	20.52	128	33806	1.04 ug/L	100
97) 1,2,4-Trichlorobenzene	19.81	180	16670	1.13 ug/L	93
98) Hexachlorobutadiene	19.65	225	7534	1.01 ug/L	91
99) 1,2,3-Trichlorobenzene	20.94	180	12470	0.91 ug/L	93

(#) = qualifier out of range (m) = manual integration

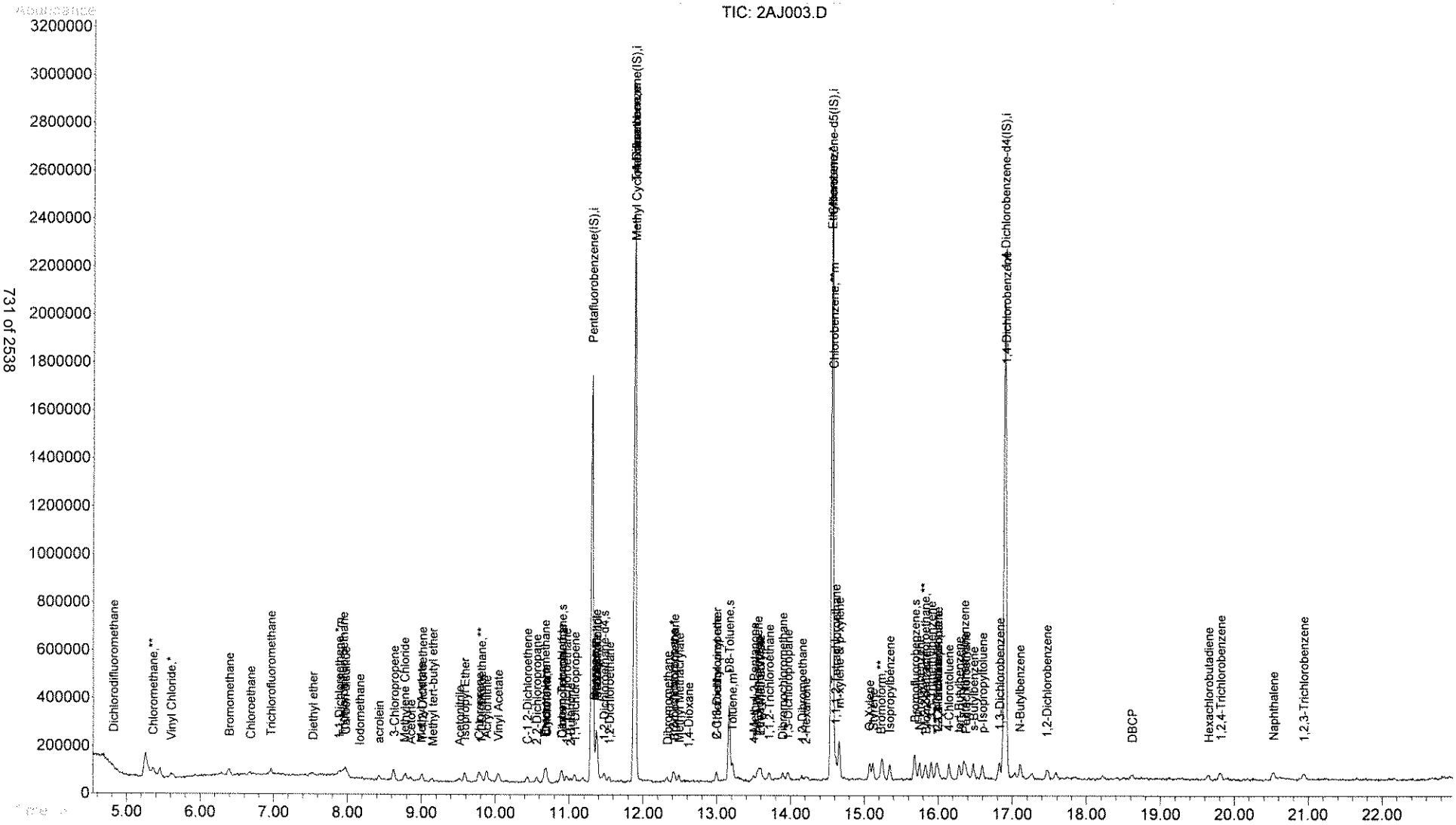
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D
Acq On : 15 Jan 2013 14:34
Sample : aa22782-cal1
Misc : cal 1 1ppb
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013

Vial: 3
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: W1301050.RES

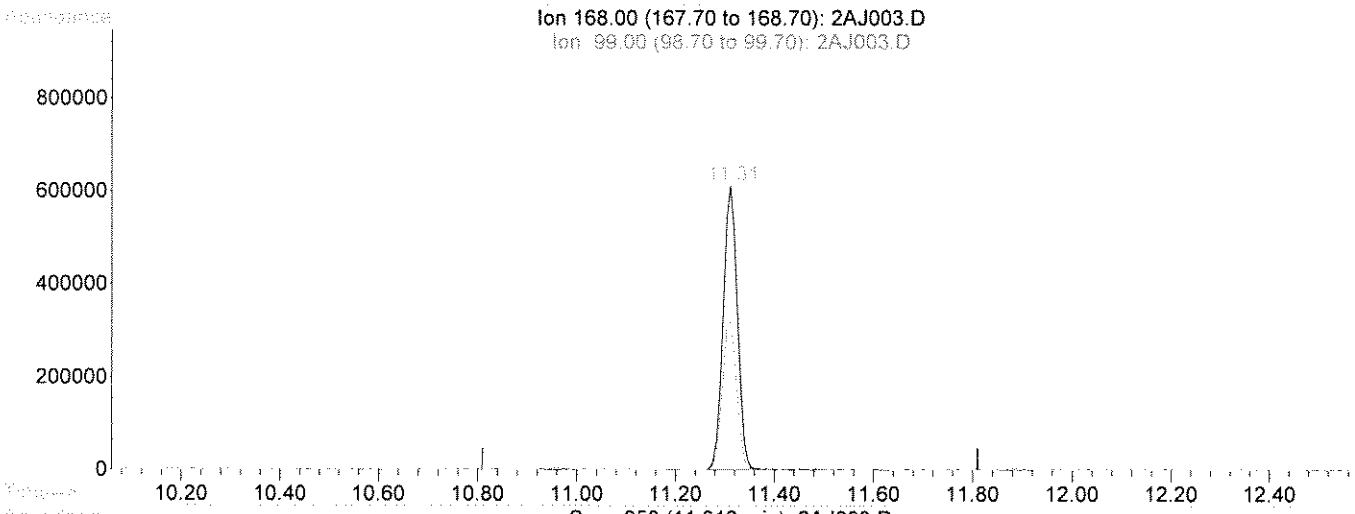
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration

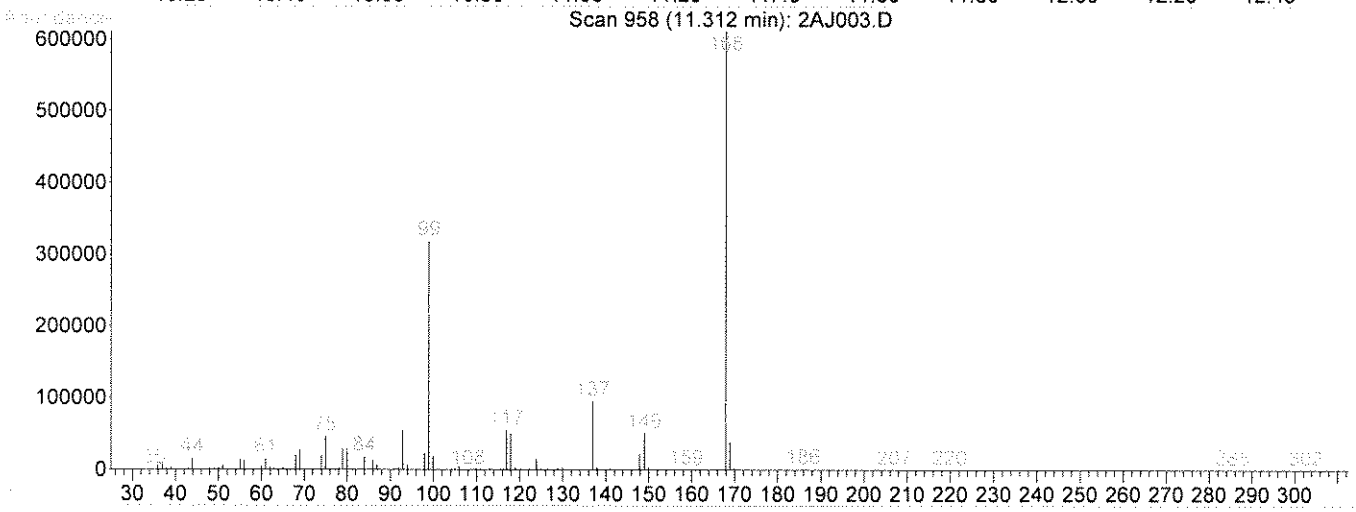


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:20 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:20:13 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L

response 1218963

Ion	Exp%	Act%
168.00	100	100
99.00	68.70	52.82
169.00	6.50	6.45
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

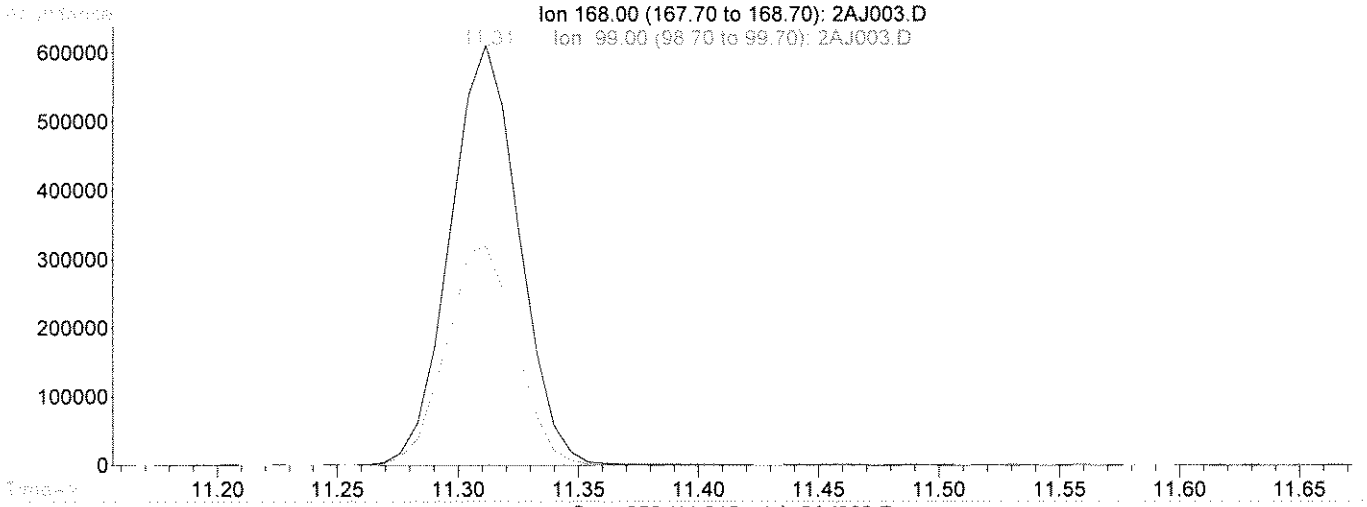
Review by/Date LS 1/16/13

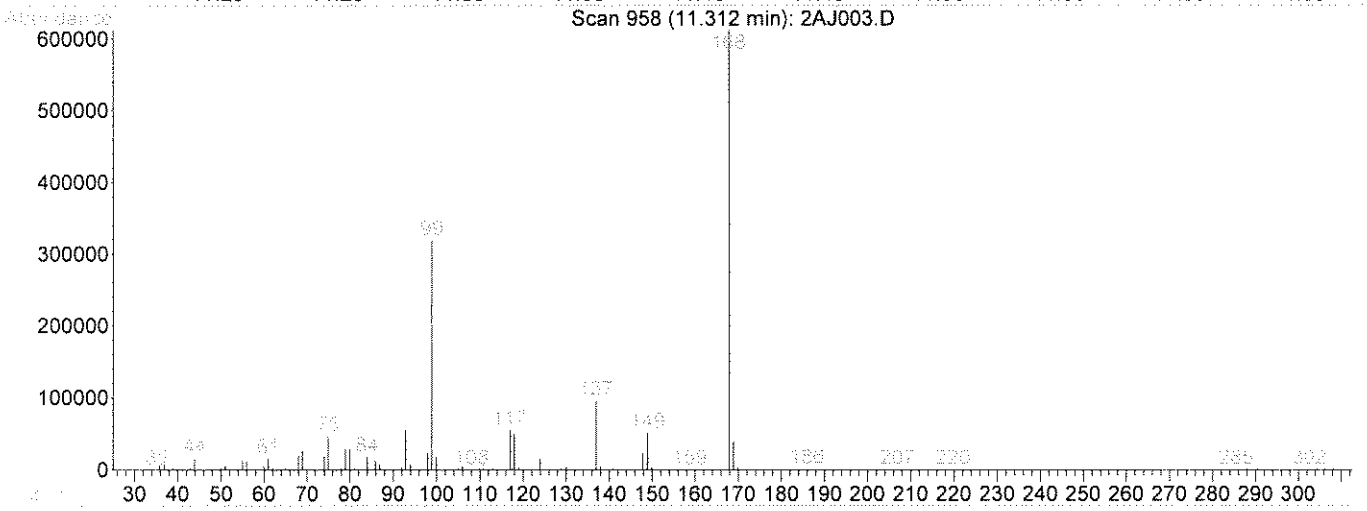
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:20 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:20:13 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L m

response 1222602

Ion	Exp%	Act%
168.00	100	100
99.00	68.70	52.66
169.00	6.50	6.43
0.00	0.00	0.00

Select One:

[ ] Original Integration ✓ [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

✓ [ ] ISTD reintegration

[ ] Other:

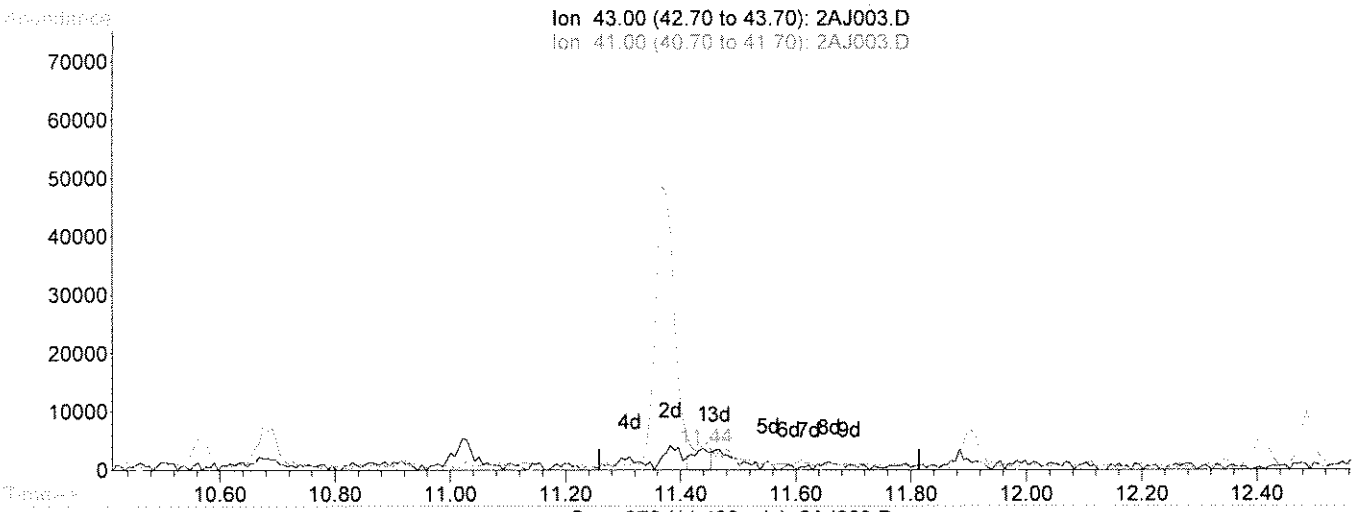
Review by/Date: dt 1/16/13

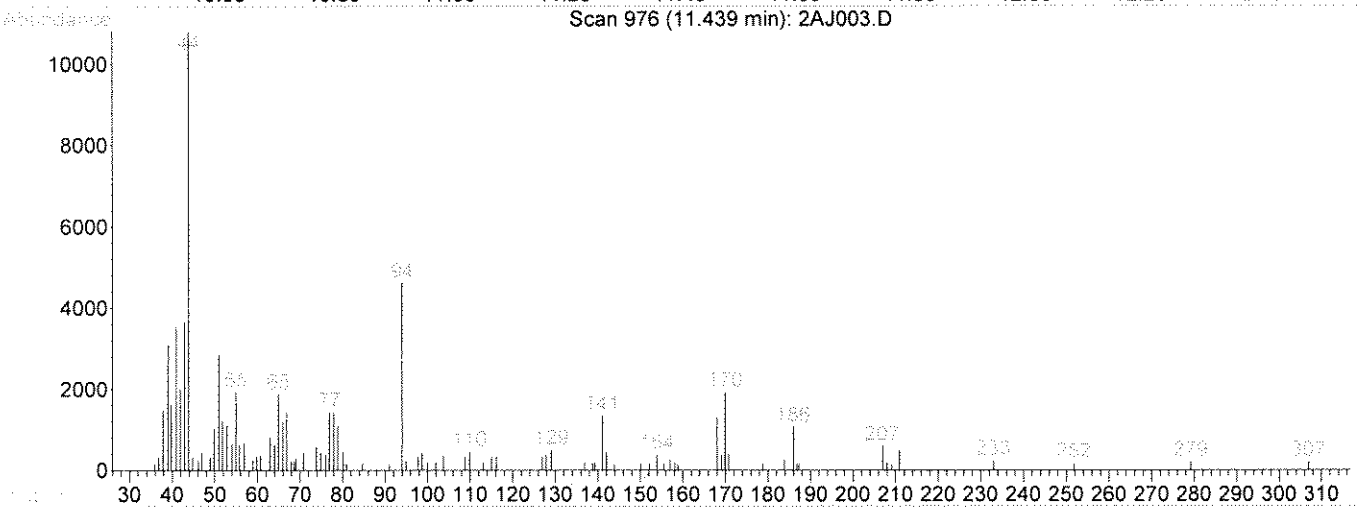
Review by/Date: kb 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:11:30 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(43) Isobutyl Alcohol

11.44min 4.96ug/L

response 7413

Ion	Exp%	Act%
43.00	100	100
41.00	83.10	86.16
42.00	35.60	93.30#
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

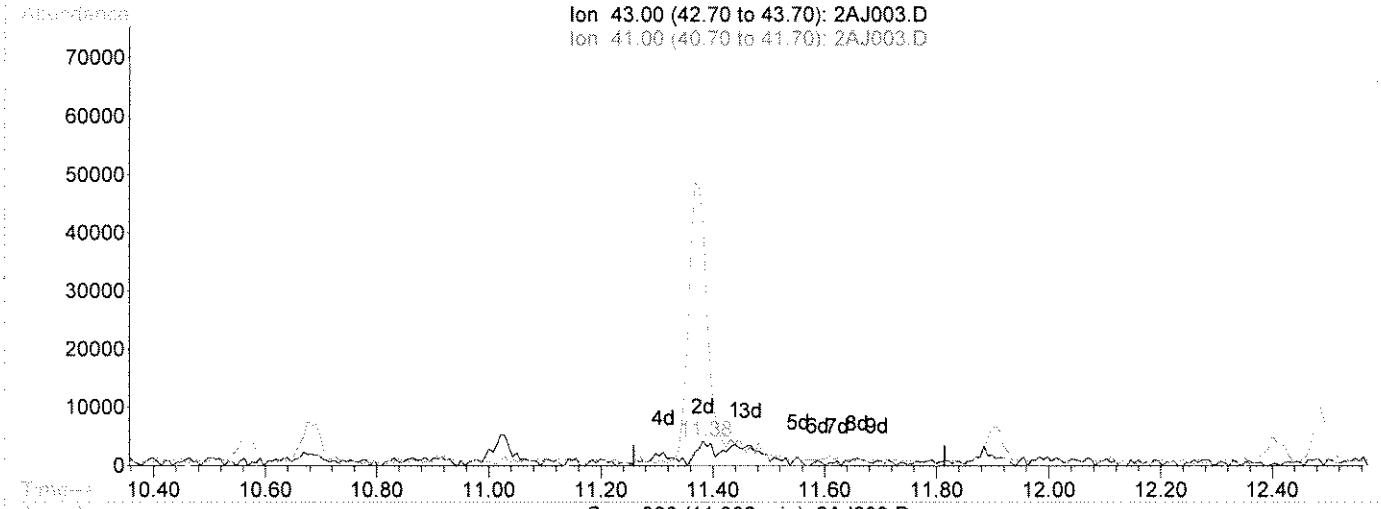
Review by/Date VG 1/16/13

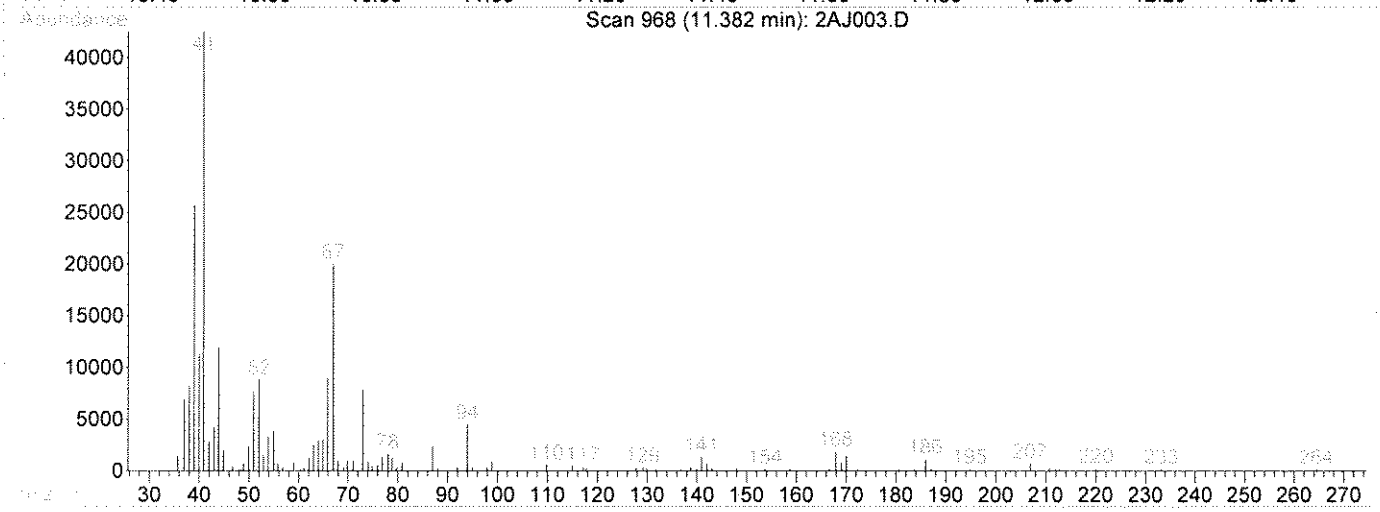
Review by/Date: MB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(43) Isobutyl Alcohol

11.38min 18.24ug/L m

response 27230

Ion	Exp%	Act%
43.00	100	100
41.00	83.10	23.46#
42.00	35.60	25.40
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[✓] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

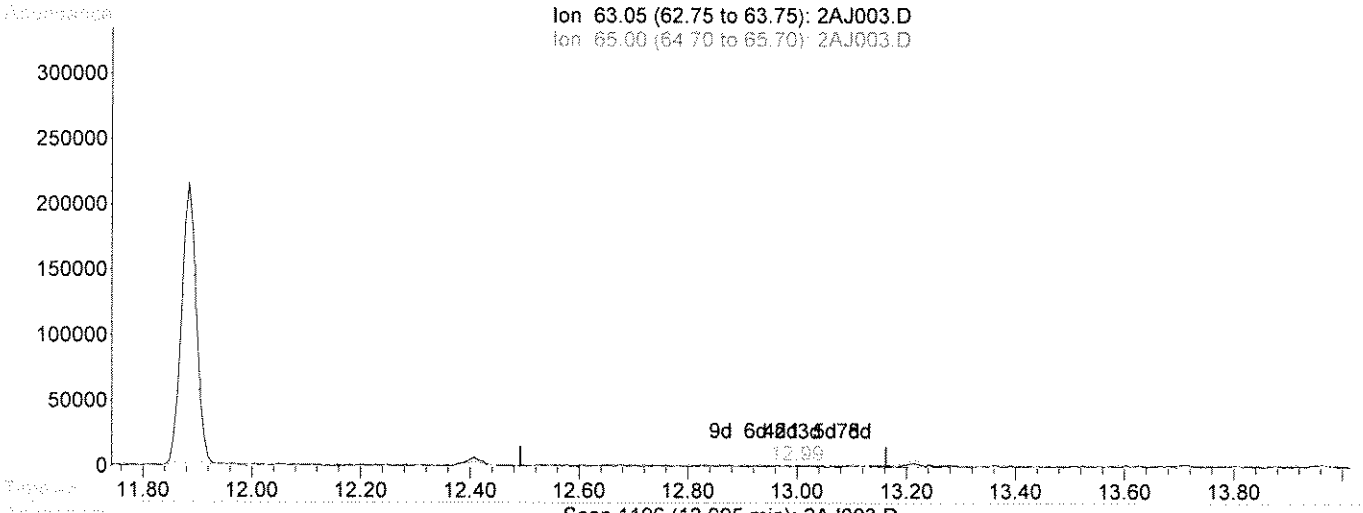
Review by/Date [illegible] 1/16/13

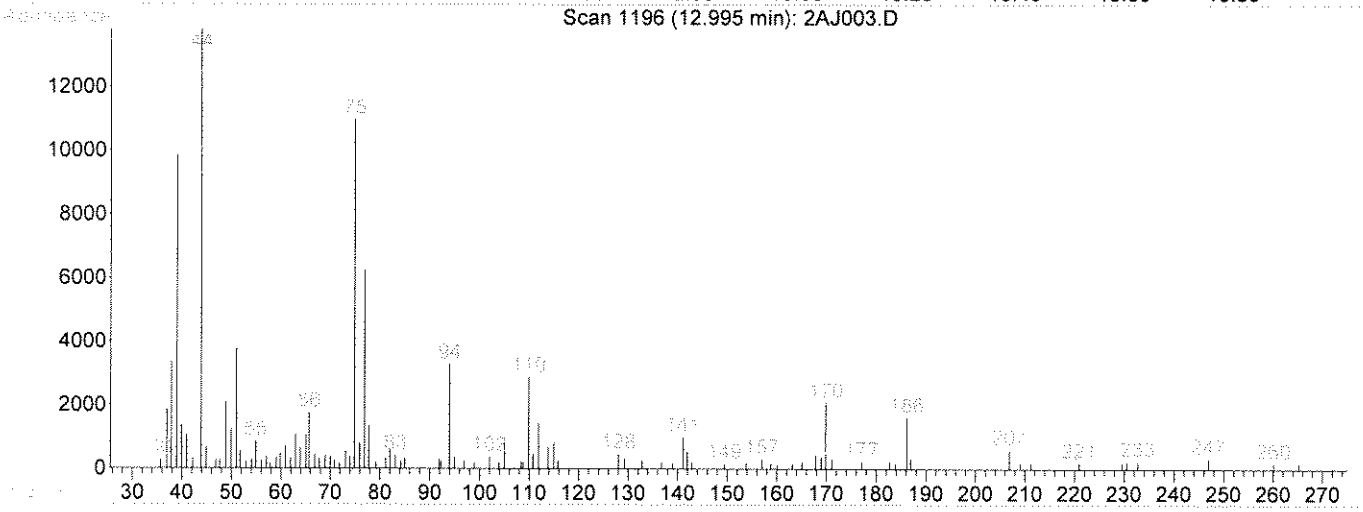
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:19:18 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(53) 2-Chloroethyl vinyl ether

12.99min 2.01ug/L

response 402

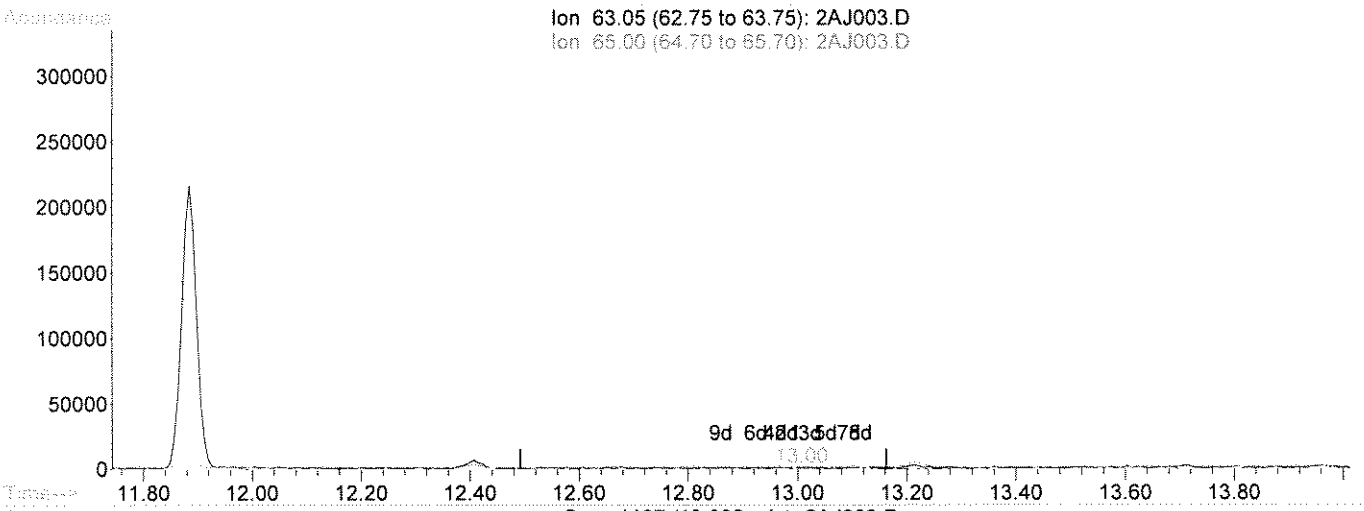
Ion	Exp%	Act%
63.05	100	100
65.00	20.00	0.00
106.05	20.90	27.11
0.00	0.00	0.00

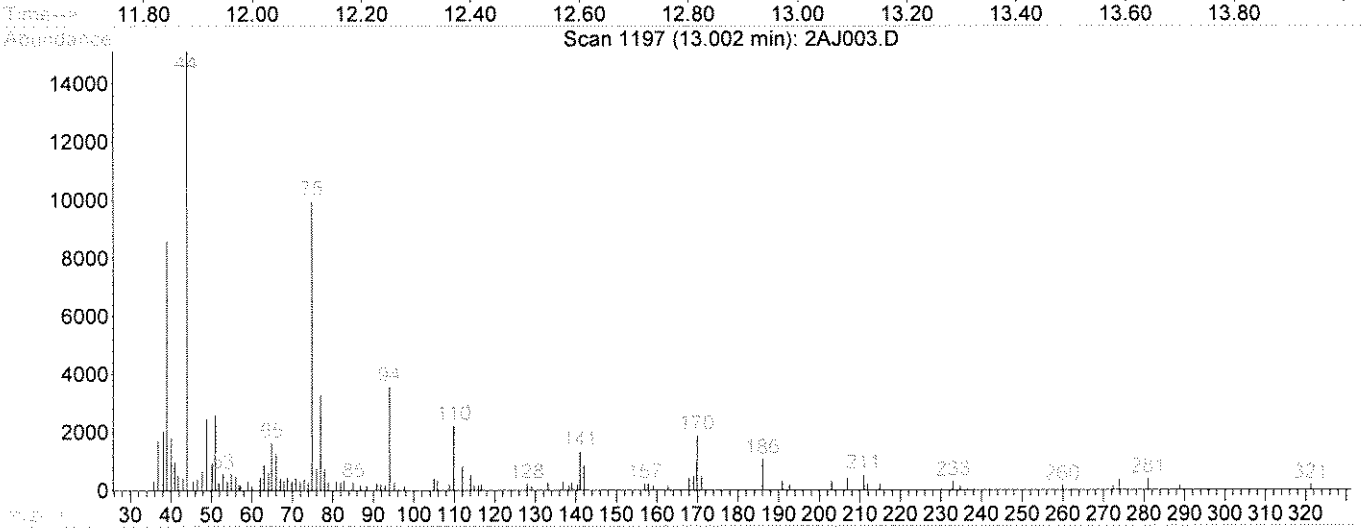
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 1/16/13
Review by/Date: 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(53) 2-Chloroethyl vinyl ether

13.00min 1.41ug/L m

response 282

Ion	Exp%	Act%
63.05	100	100
65.00	20.00	0.00
106.05	20.90	38.65
0.00	0.00	0.00

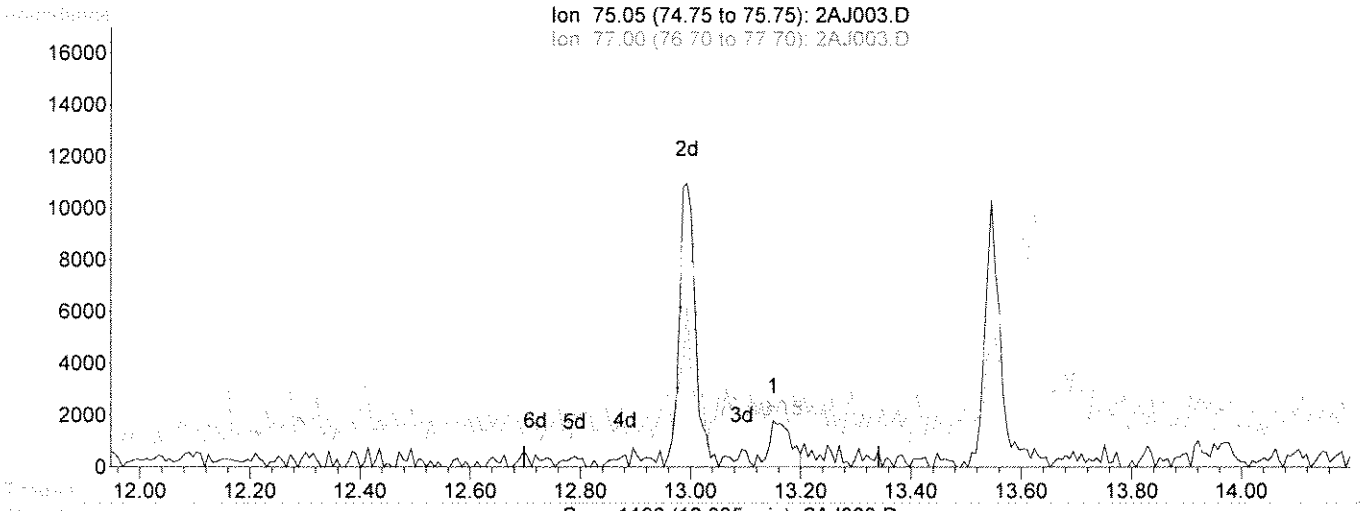
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KB 1-17-13

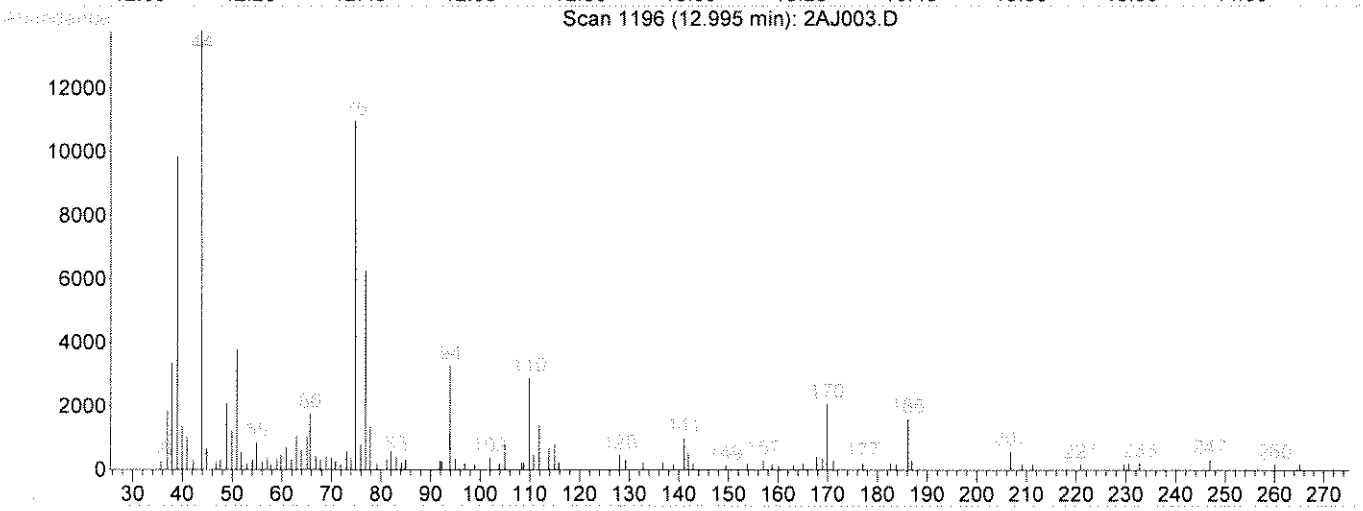
2AJ003.D W1301050.M Wed Jan 16 13:27:26 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 11:52 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(55) C-1,3-Dichloropropene

13.15min 0.19ug/L

response 4991

Ion	Exp%	Act%
75.05	100	100
77.00	33.70	47.43
39.10	41.00	39.17
0.00	0.00	0.00

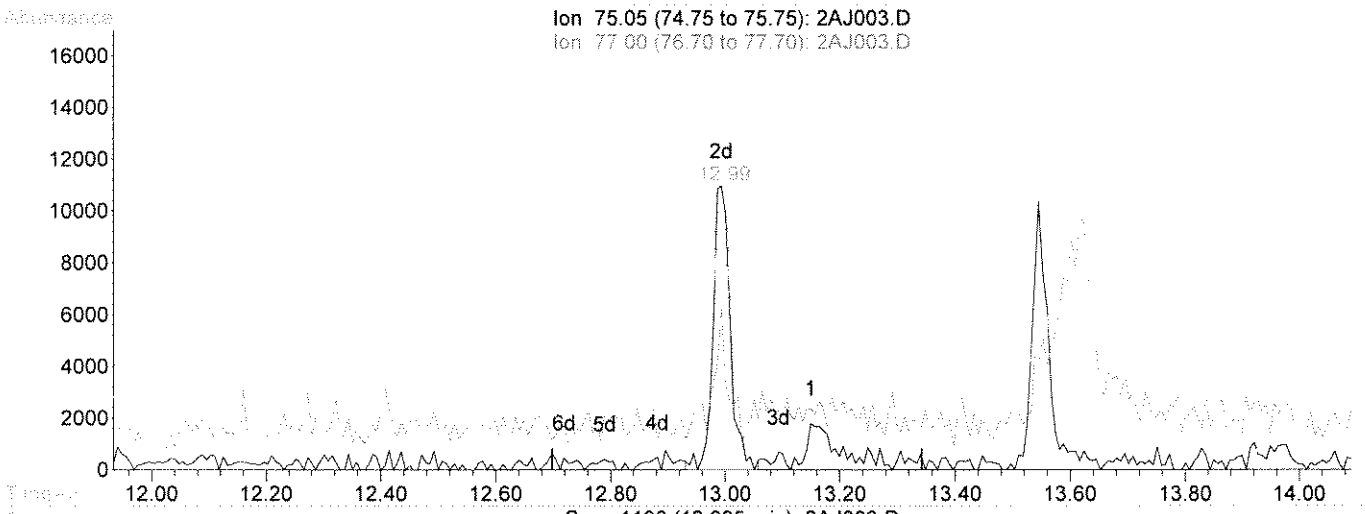
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date [illegible] 1/16/13
Review by/Date: KB 1-17-13

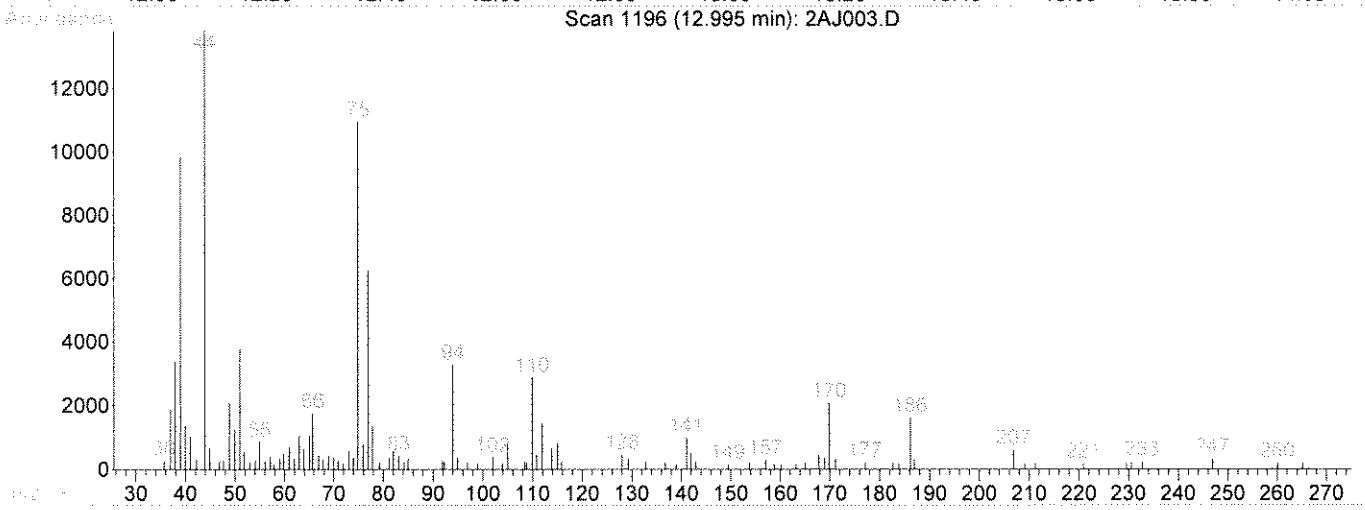
2AJ003.D W1301050.M Wed Jan 16 11:53:21 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(55) C-1,3-Dichloropropene

12.99min 0.90ug/L m

response 23054

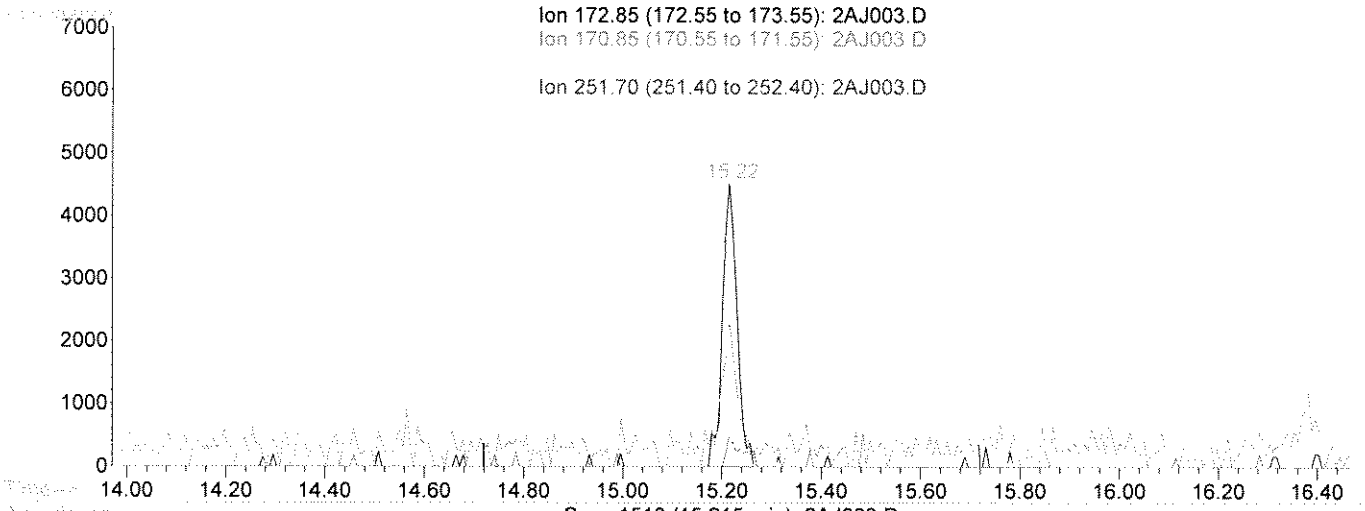
Ion	Exp%	Act%
75.05	100	100
77.00	33.70	10.27
39.10	41.00	8.48#
0.00	0.00	0.00

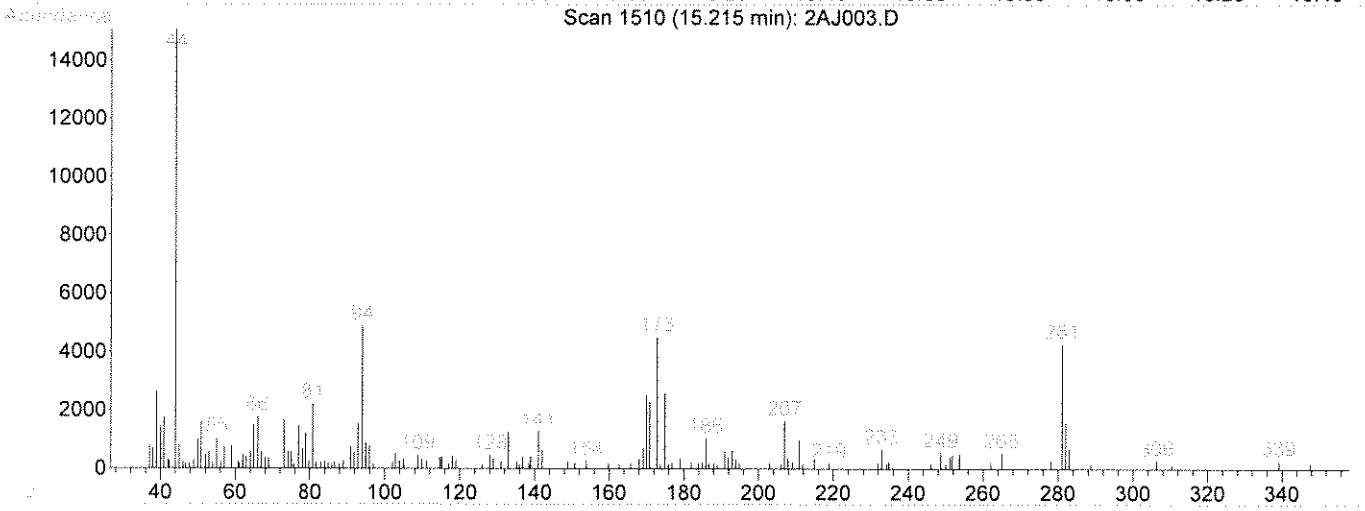
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[✓] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LS 1/16/13
Review by/Date: LS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:06:01 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(72) Bromoform (**)

15.22min 0.97ug/L

response 9246

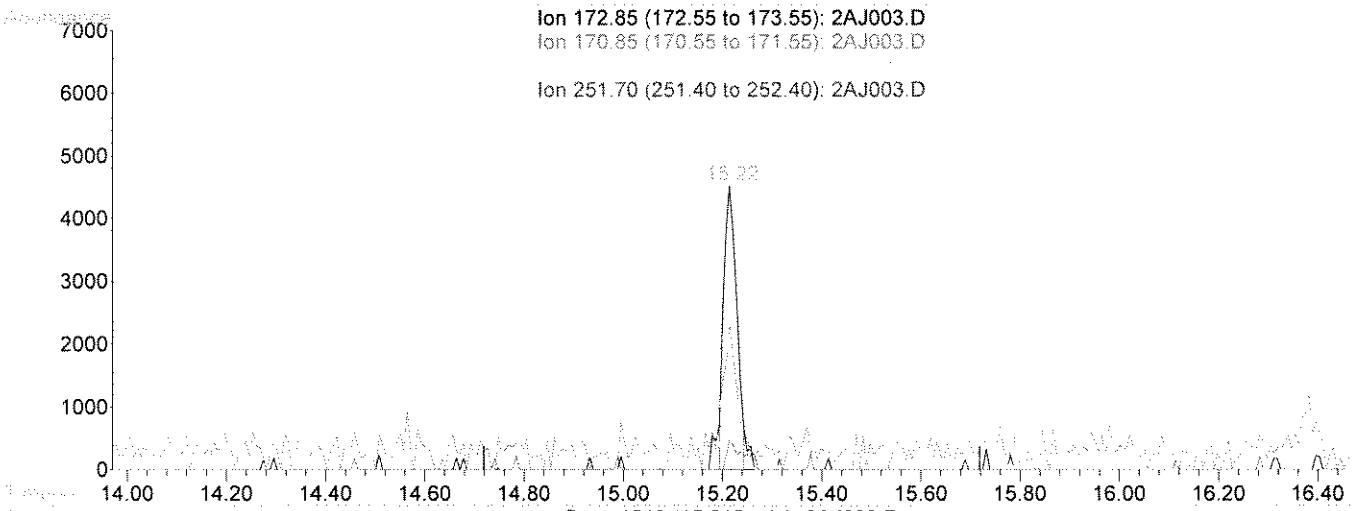
Ion	Exp%	Act%
172.85	100	100
170.85	61.90	61.48
174.85	48.70	50.98
251.70	8.60	11.65

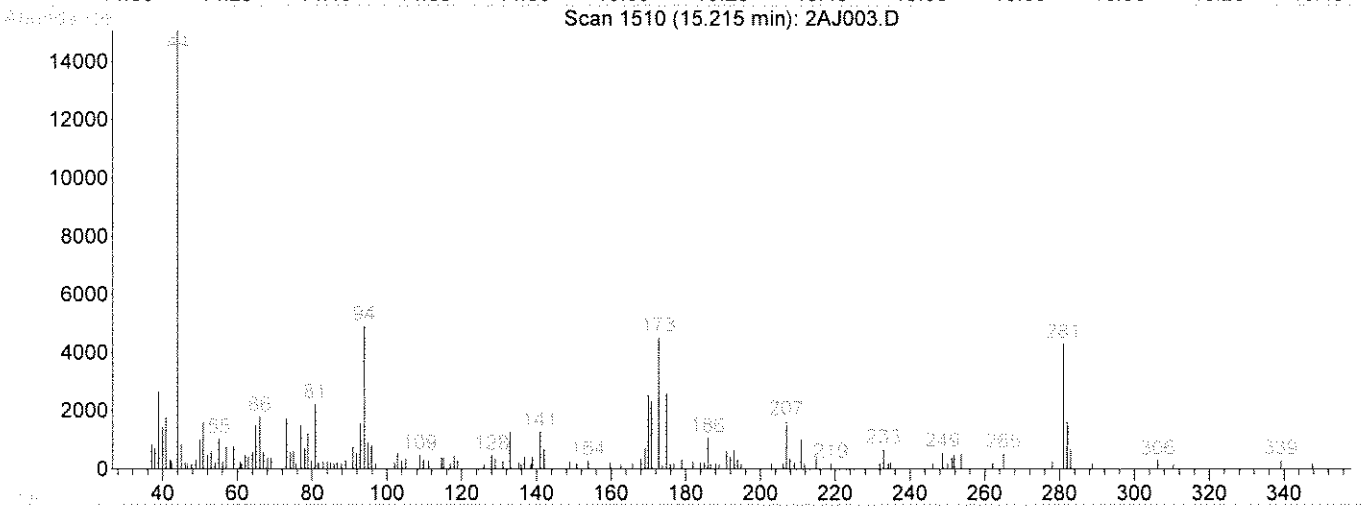
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





(72) Bromoform (**)

15.22min 0.86ug/L m

response 8252

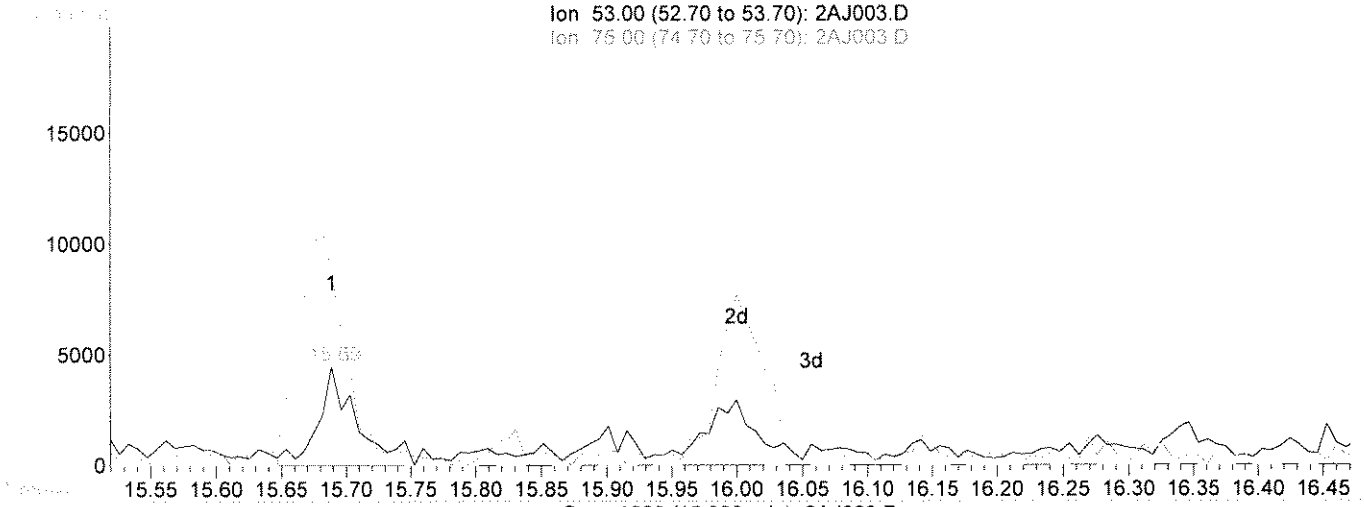
Ion	Exp%	Act%
172.85	100	100
170.85	61.90	68.88
174.85	48.70	57.13
251.70	8.60	13.05

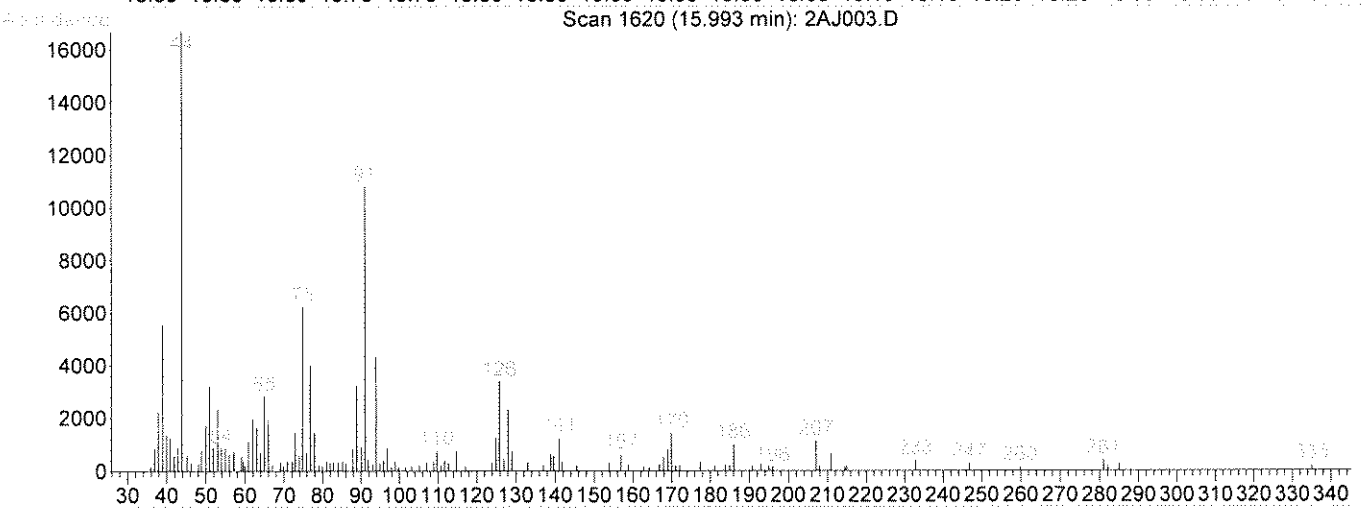
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date lt 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:04 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:06:01 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(79) T-1,4-dichloro-2-butene

15.69min 1.67ug/L

response 9212

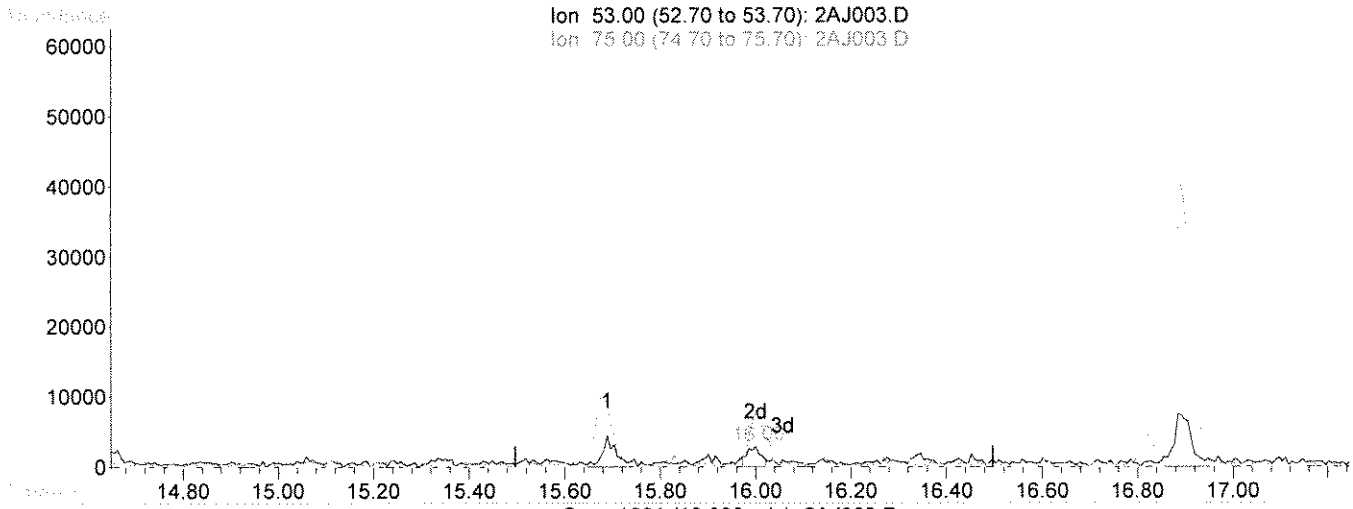
Ion	Exp%	Act%
53.00	100	100
75.00	306.20	289.67
88.00	42.60	70.39
0.00	0.00	0.00

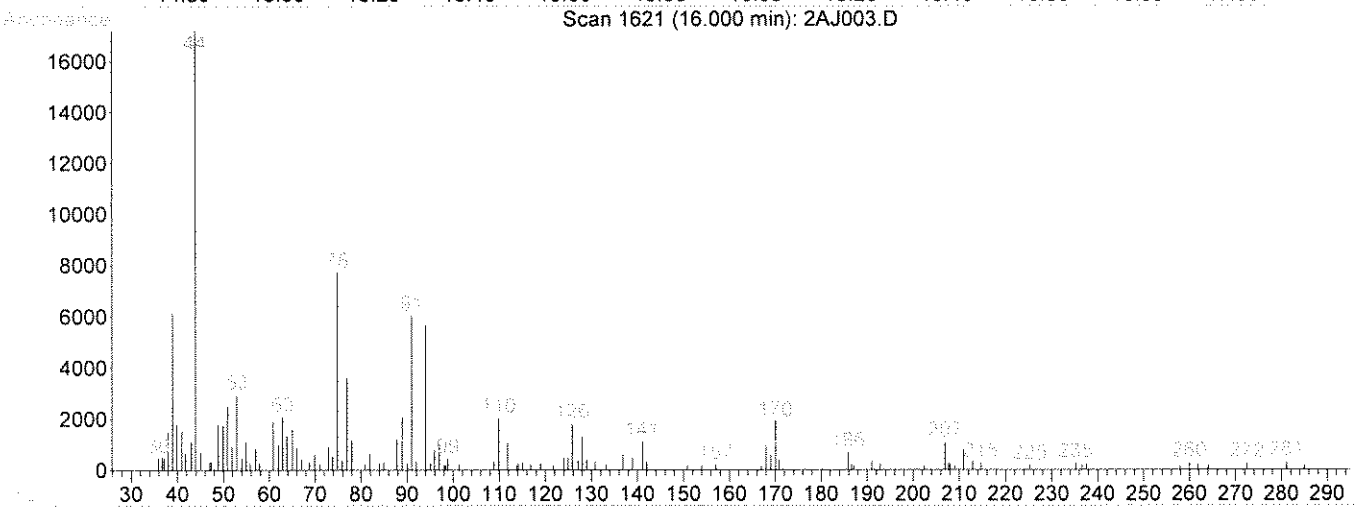
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:06:01 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(79) T-1,4-dichloro-2-butene

16.00min 1.04ug/L m

response 5737

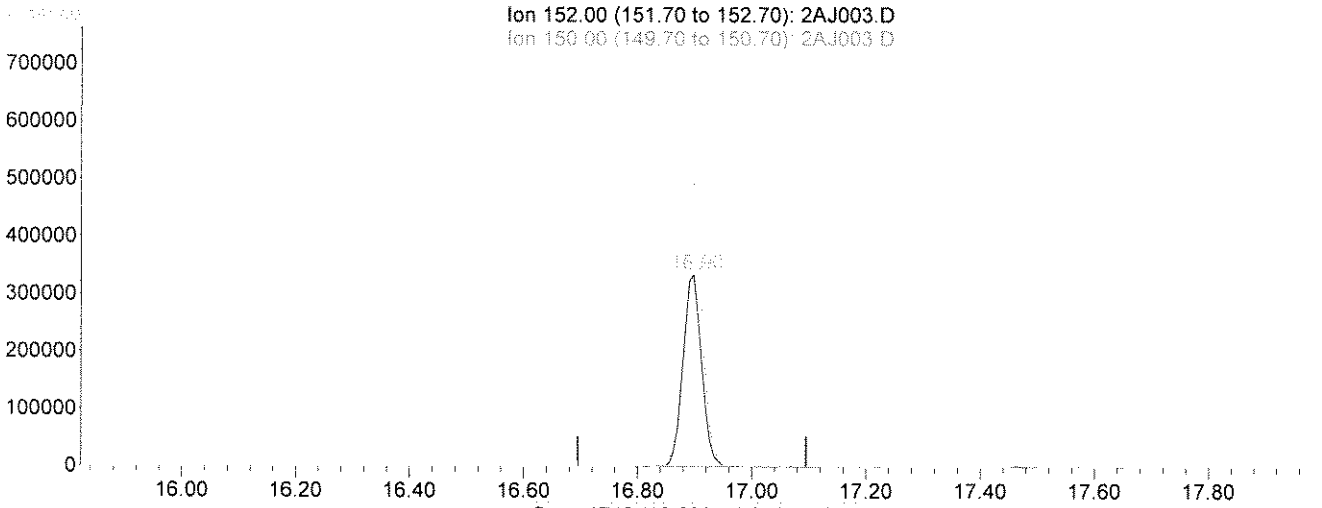
Ion	Exp%	Act%
53.00	100	100
75.00	306.20	465.12#
88.00	42.60	113.02#
0.00	0.00	0.00

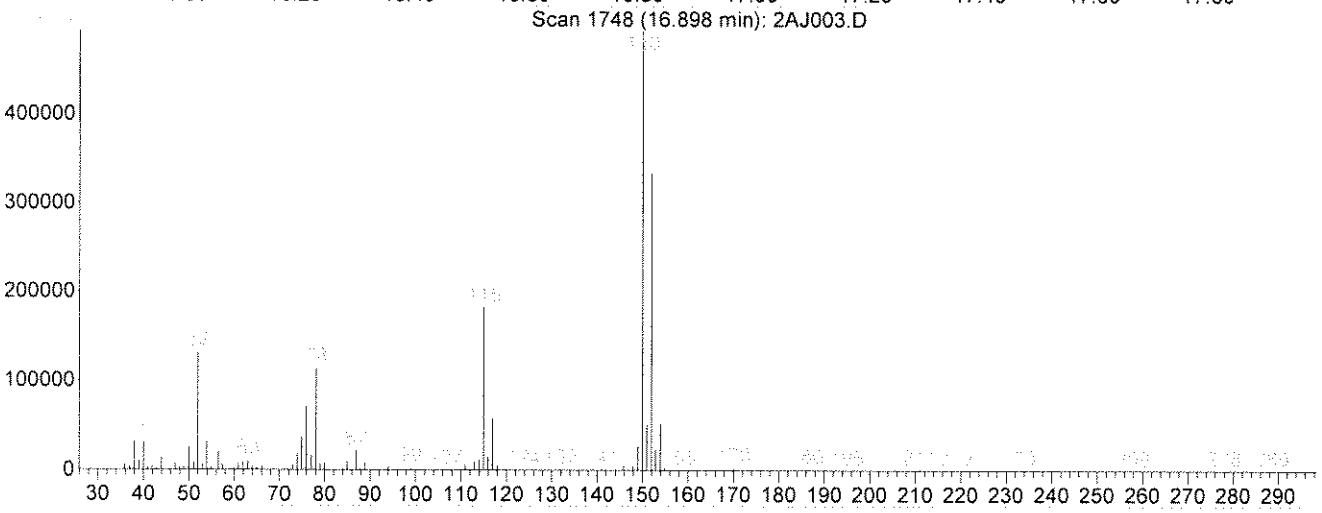
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[✓] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date: 1/16/13
Review by/Date: 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 11:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:01:03 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(82) 1,4-Dichlorobenzene-d4(IS) (i)

16.90min 50.00ug/L

response 754671

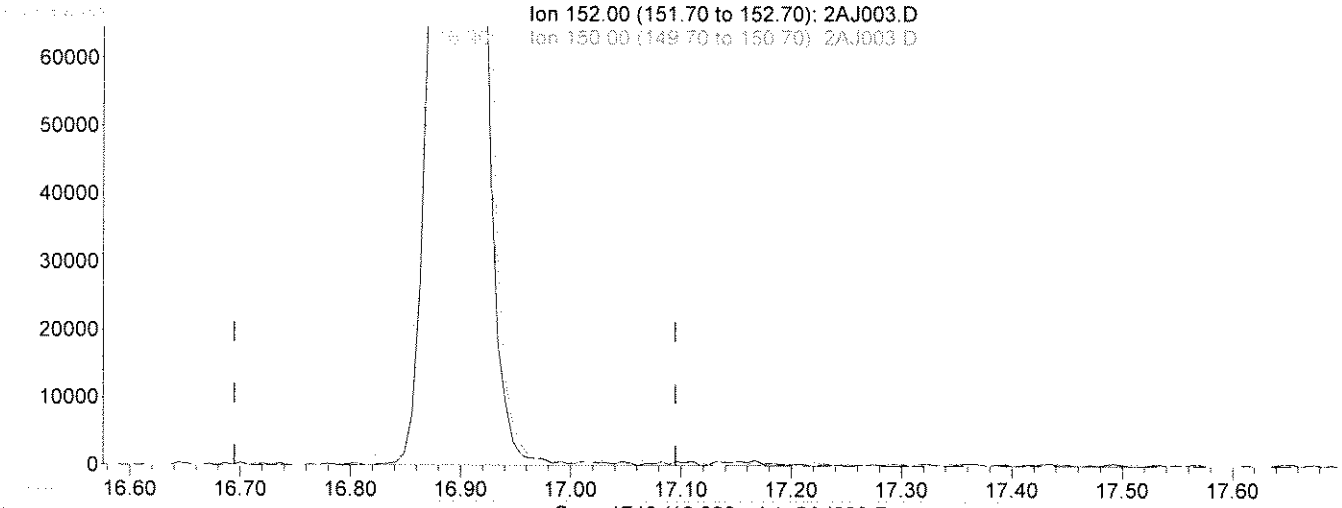
Ion	Exp%	Act%
152.00	100	100
150.00	170.90	153.76
115.00	63.90	56.51
0.00	0.00	0.00

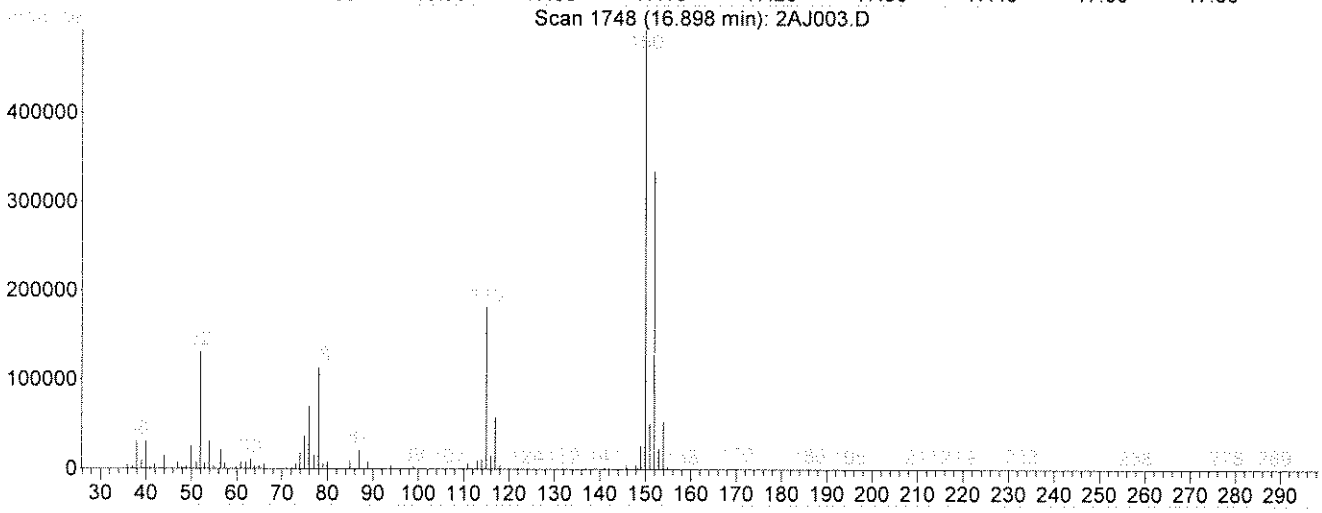
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date CG 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ003.D Vial: 3
Acq On : 15 Jan 2013 14:34 Operator: kat
Sample : aa22782-cal1 Inst : OVGCMS2
Misc : cal 1 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:02 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:01:03 2013
Response via : Multiple Level Calibration





TIC: 2AJ003.D

(82) 1,4-Dichlorobenzene-d4(IS) (i)

16.90min 50.00ug/L m

response 759239

Ion	Exp%	Act%
152.00	100	100
150.00	170.90	152.84
115.00	63.90	56.17
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date WT 1/16/13
Review by/Date: NB 1-17-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1244232m	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	2012487	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1752784	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	802598	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	92098	5.40 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery	= 10.80%#	
44) 1,2-Dichloroethane-d4	11.48	65	96430	4.57 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery	= 9.14%#	
56) D8-Toluene	13.17	98	291134	6.29 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery	= 12.58%#	
77) Bromofluorobenzene	15.68	95	121016m	5.85 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery	= 11.70%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	106400	6.31 ug/L	97
3) Chloromethane	5.37	50	144236	7.11 ug/L	97
4) Vinyl Chloride	5.60	62	134790	6.15 ug/L	97
5) Bromomethane	6.40	94	63185	5.33 ug/L	97
6) Chloroethane	6.68	64	54331	3.62 ug/L	96
7) Trichlorofluoromethane	6.96	101	101921	3.45 ug/L	92
8) Trichlorotrifluoroethane	7.93	101	45885	2.46 ug/L	87
9) acrolein	8.43	56	74144	227.54 ug/L	96
10) Acetone	8.85	43	31876	6.07 ug/L	97
11) 1,1-Dichloroethene	7.89	96	35878	2.32 ug/L	81
12) 3-Chloropropene	8.63	76	52070	6.75 ug/L	75
13) Acetonitrile	9.50	41	99402	54.34 ug/L	92
14) Iodomethane	8.15	142	79617	4.66 ug/L	88
15) Carbon disulfide	7.98	76	217999	3.94 ug/L	100
16) Methylene Chloride	8.78	84	72652	4.85 ug/L	94
17) Methyl tert-butyl ether	9.13	73	124803	3.34 ug/L	94
18) Acrylonitrile	9.88	53	218777	52.30 ug/L	98
19) T-1,2-Dichloroethene	9.01	96	67219	5.05 ug/L	91
20) Isopropyl Ether	9.59	45	239851	3.53 ug/L	96
21) C-1,2-Dichloroethene	10.43	96	68928	4.64 ug/L	97
22) 1,1-Dichloroethane	9.82	63	128233	4.18 ug/L	96
23) Vinyl Acetate	10.05	43	238744	4.43 ug/L	98
24) Chloroprene	9.78	53	133206	4.59 ug/L	78
25) 2-Butanone	11.02	72	6660	5.74 ug/L #	64
26) Propionitrile	11.35	54	93814	52.18 ug/L	100
27) 2,2-Dichloropropane	10.57	77	89172	3.43 ug/L	99
28) Methacrylonitrile	11.37	67	257469	52.43 ug/L #	45
29) Chloroform	10.70	83	112308	3.76 ug/L	90
31) Dibromofluoromethane	10.90	113	92098	5.40 ug/L	100
32) Bromochloromethane	10.66	128	35296	4.75 ug/L #	73
33) 1,1,1-Trichloroethane	10.97	97	79587	3.24 ug/L #	92
34) 1,1-Dichloropropene	11.08	75	84067	3.92 ug/L	85
35) Diethyl ether	7.54	59	43534	2.56 ug/l	95
36) Methyl Acetate	9.00	74	11204	6.42 ug/l #	81
37) Cyclohexane	10.68	56	127123	4.94 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	107285	4.86 ug/l #	93
40) Carbon Tetrachloride	10.90	117	69062	3.13 ug/L	99
41) 1,2-Dichloroethane	11.54	62	83872	3.28 ug/L	97
42) Benzene	11.34	78	239676	4.31 ug/L #	56
43) Isobutyl Alcohol	11.39	43	108480	72.42 ug/L #	1
45) 1,2-Dichloroethane-d4	11.48	65	96430	4.57 ug/l	96
46) Trichloroethene	11.89	130	68123	4.73 ug/L #	80
47) 1,2-Dichloropropane	12.41	63	72086	4.61 ug/L	82
48) Methyl Methacrylate	12.49	100	18495	5.74 ug/L #	1
49) 1,4-Dioxane	12.60	88	13185m	110.99 ug/L	54
50) Bromodichloromethane	12.43	83	84009	3.88 ug/L #	100
51) Dibromomethane	12.32	93	39833	3.82 ug/L	87
52) 4-Methyl-2-Pentanone	13.49	100	9386	6.47 ug/L	72
53) 2-Chloroethyl vinyl ether	12.98	63	979m	4.88 ug/L	1
54) 2-Hexanone	14.20	43	66732	5.96 ug/L	92
55) C-1,3-Dichloropropene	13.00	75	111140	4.31 ug/L	73
57) D8-Toluene	13.17	98	291134	6.29 ug/L	99
59) Toluene	13.21	92	150314	4.64 ug/L	97
60) Ethyl Methacrylate	13.60	69	87660	5.25 ug/L #	58
61) T-1,3-Dichloropropene	13.55	75	90045	3.93 ug/L #	66
62) 1,1,2-Trichloroethane	13.71	97	48612	4.38 ug/L	96
63) 1,3-Dichloropropane	13.96	76	93928	4.31 ug/L	98
64) Tetrachloroethene	13.57	164	51173	4.84 ug/L	86
65) Dibromochloromethane	13.89	129	65133	4.16 ug/L	93
66) 1,2-Dibromoethane	14.15	107	55265	4.37 ug/L	92
67) Chlorobenzene	14.58	112	174033	5.21 ug/L	86
68) 1,1,1,2-Tetrachloroethane	14.62	131	61895	4.35 ug/L	89
69) Ethylbenzene	14.54	106	83845	4.71 ug/L	97
70) m-xylene & p-xylene	14.66	106	211859	9.73 ug/L	80
71) O-Xylene	15.07	106	112472	5.53 ug/L	93
72) Bromoform	15.22	173	37275	3.72 ug/L	95
73) Styrene	15.12	104	181351	4.62 ug/L	85
74) Isopropylbenzene	15.34	105	278259	5.07 ug/L	99
75) 1,2,3-Trichloropropane	16.00	75	79786	4.28 ug/L	96
76) 1,1,2,2-Tetrachloroethane	15.81	83	63261	3.92 ug/L	98
78) Bromofluorobenzene	15.68	95	121016m	5.85 ug/L	76
79) T-1,4-dichloro-2-butene	15.99	53	25808	4.45 ug/L	96
80) N-Propylbenzene	15.75	91	318616	4.78 ug/L	95
81) Pentachloroethane	16.38	167	51843	5.71 ug/l #	93
83) Bromobenzene	15.83	156	70323	4.55 ug/L	84
84) 1,3,5-Trimethylbenzene	15.90	105	208612	4.30 ug/L	91
85) 2-Chlorotoluene	15.97	91	198620	4.72 ug/L	92
86) 4-Chlorotoluene	16.14	91	197366	4.77 ug/L	90
87) 1,2,4-Trimethylbenzene	16.34	105	214101	4.34 ug/L	97
88) s-Butylbenzene	16.47	105	271714	4.83 ug/L	93
89) tert-Butylbenzene	16.28	119	182837	4.84 ug/L	94
90) p-Isopropyltoluene	16.59	119	212463	4.48 ug/L	94
91) 1,3-Dichlorobenzene	16.82	146	133352	5.27 ug/L	91
92) 1,4-Dichlorobenzene	16.91	146	123443	4.42 ug/L	100
93) 1,2-Dichlorobenzene	17.47	146	121666	5.13 ug/L	95
94) N-Butylbenzene	17.10	91	200888	4.00 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	DBCP	18.62	75	9844	3.38 ug/L	84
96)	Naphthalene	20.53	128	159327m	4.65 ug/L	100
97)	1,2,4-Trichlorobenzene	19.80	180	69812	4.47 ug/L	87
98)	Hexachlorobutadiene	19.64	225	32921	4.18 ug/L	93
99)	1,2,3-Trichlorobenzene	20.94	180	63906	4.39 ug/L	95

(#) = qualifier out of range (m) = manual integration

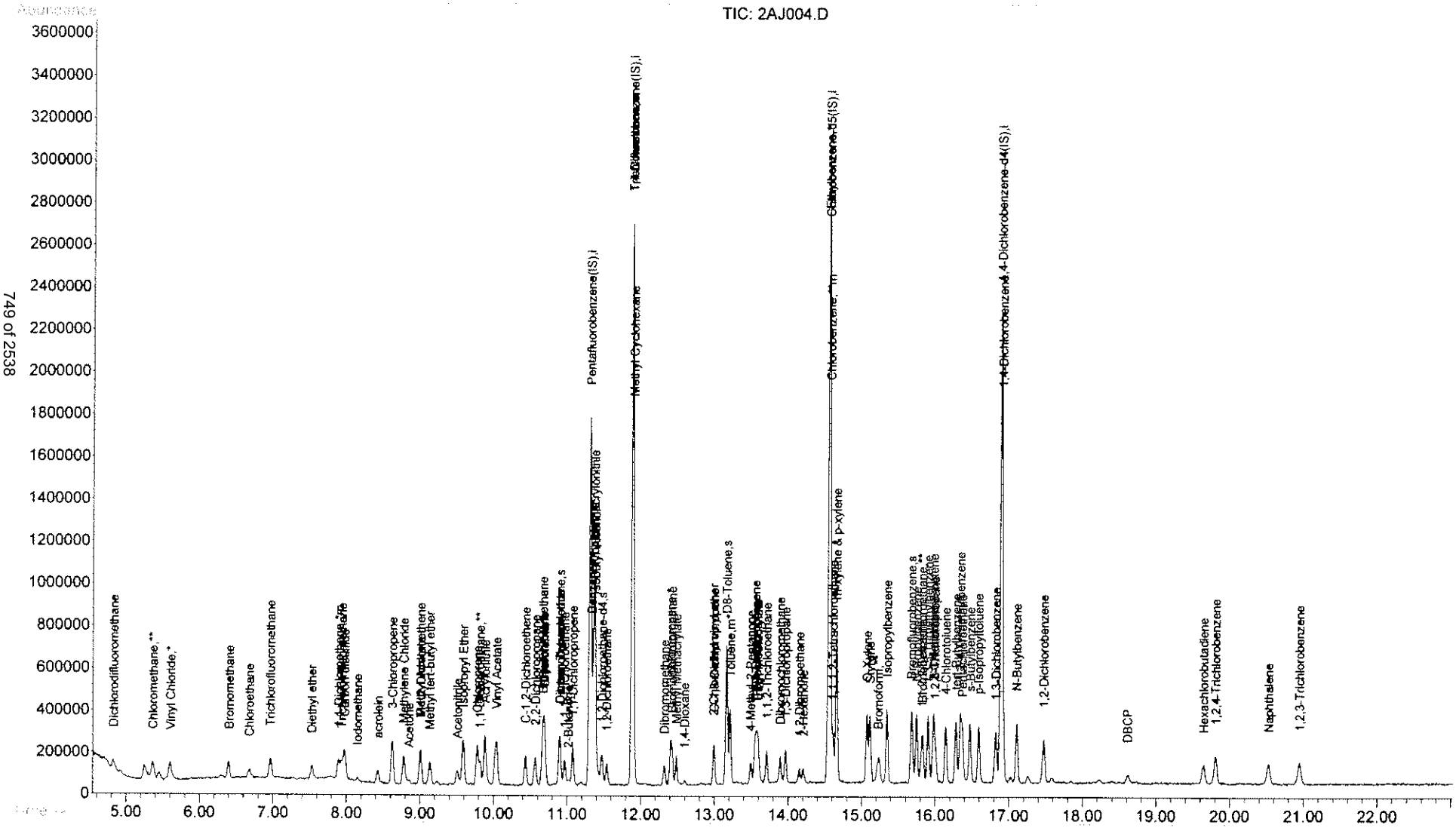
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D
Acq On : 15 Jan 2013 15:05
Sample : aa22782-cal2
Misc : cal 5 1ppb
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013

Vial: 4
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration

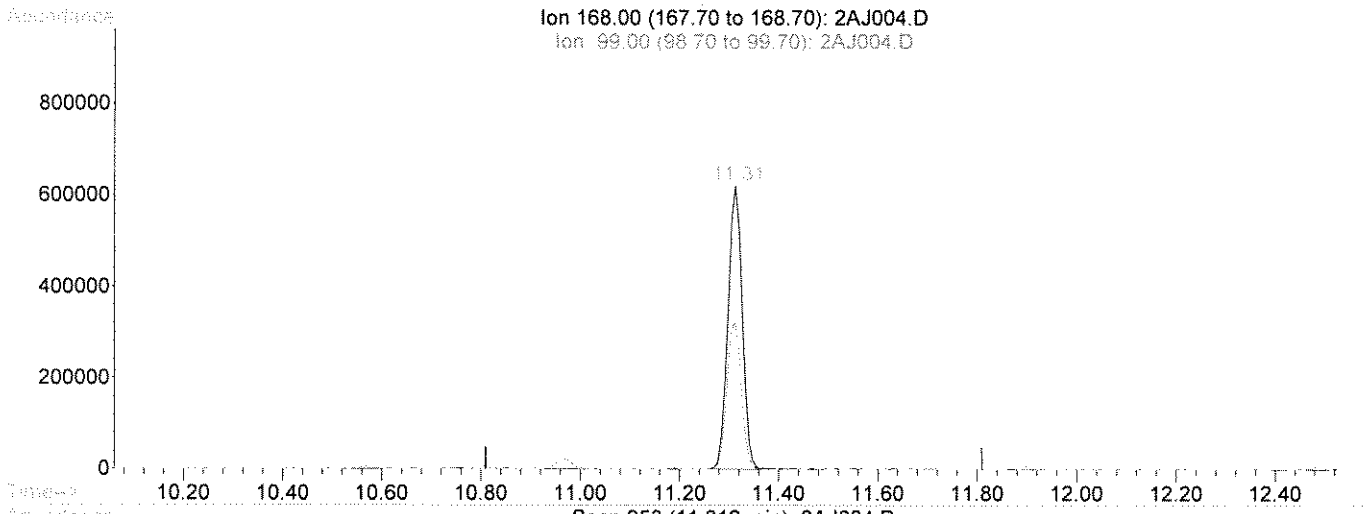


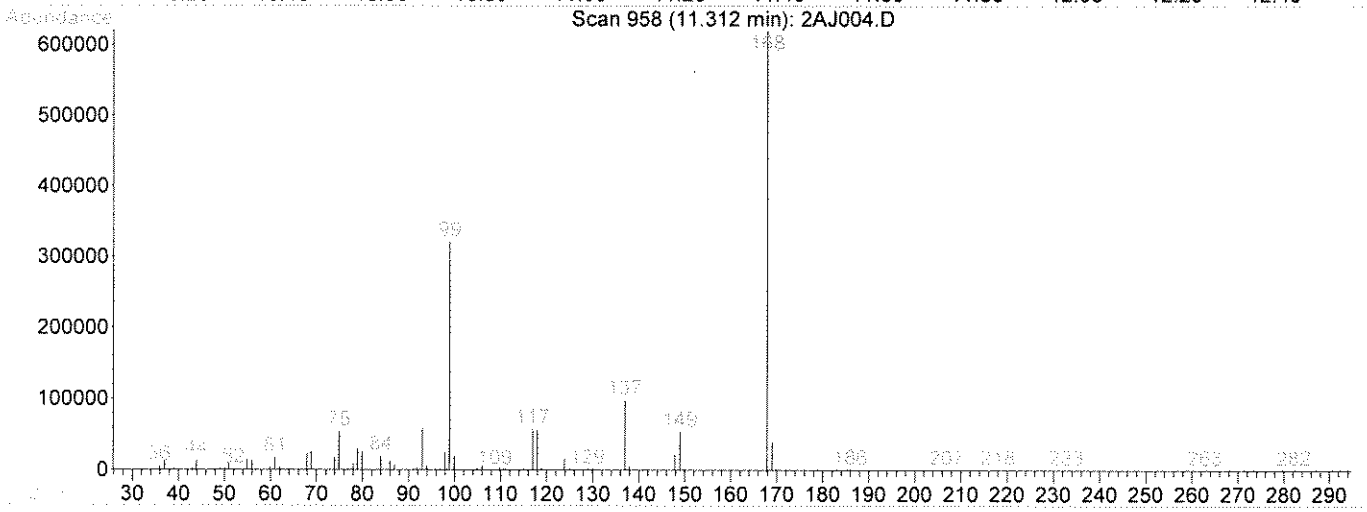
2AJ004.D W1301050.M Wed Jan 16 13:13:34 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:18 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:30:02 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L

response 1246053

Ion	Exp%	Act%
168.00	100	100
99.00	68.70	52.39
169.00	6.50	6.70
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

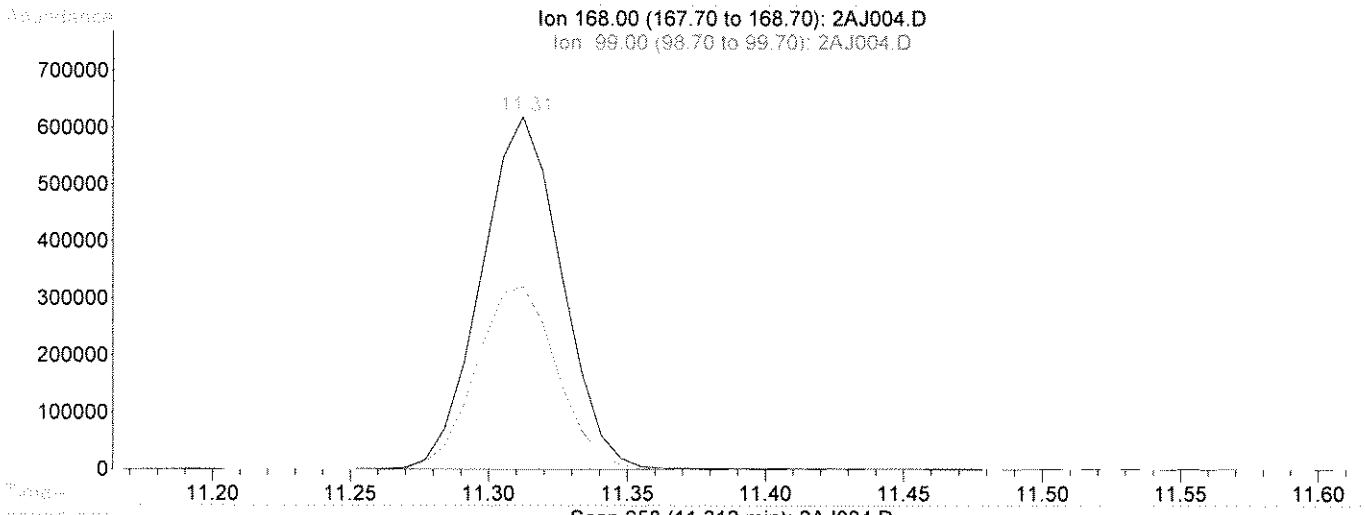
Review by/Date KS 1/16/13

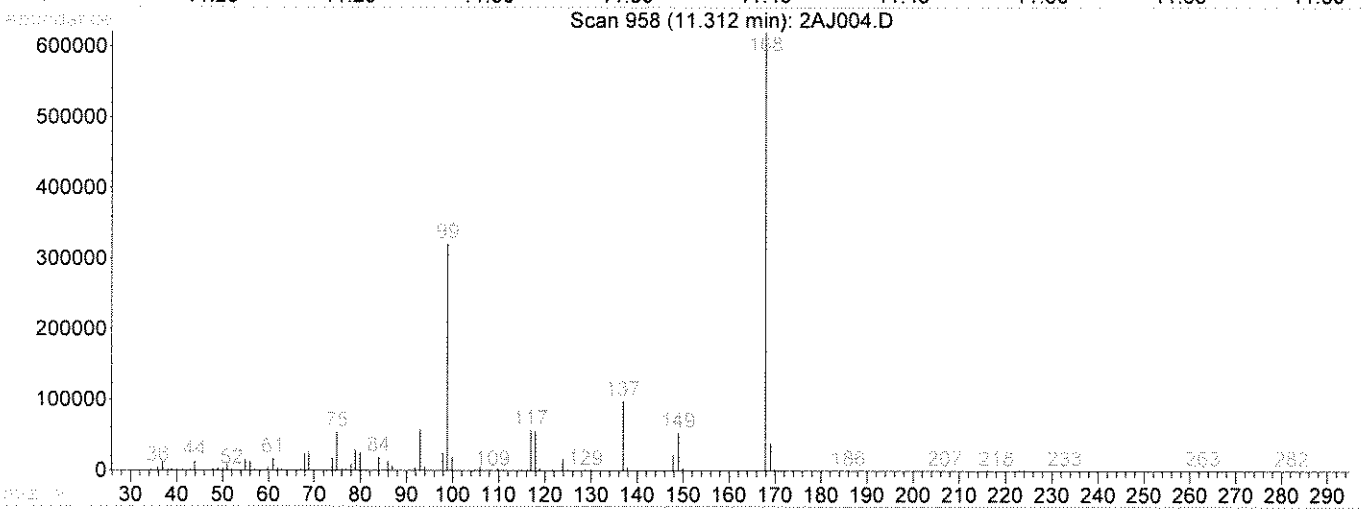
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:30 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:30:02 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L m

response 1244232

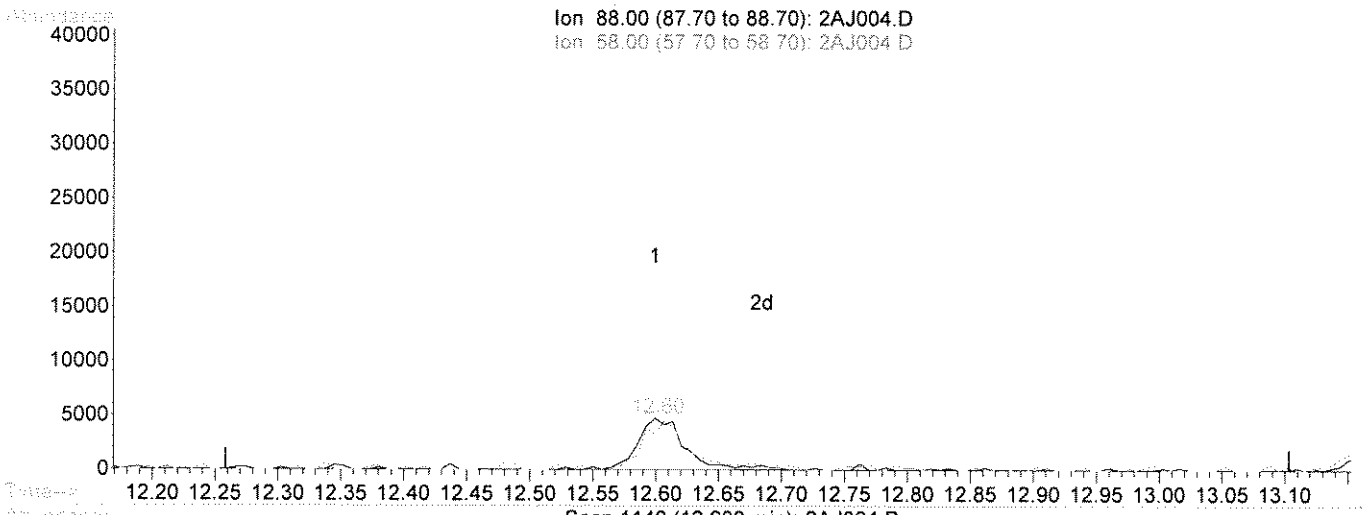
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	52.47
169.00	6.50	6.71
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date WT 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:16:44 2013
Response via : Multiple Level Calibration



(49) 1,4-Dioxane

12.60min 100.02ug/L

response 11882

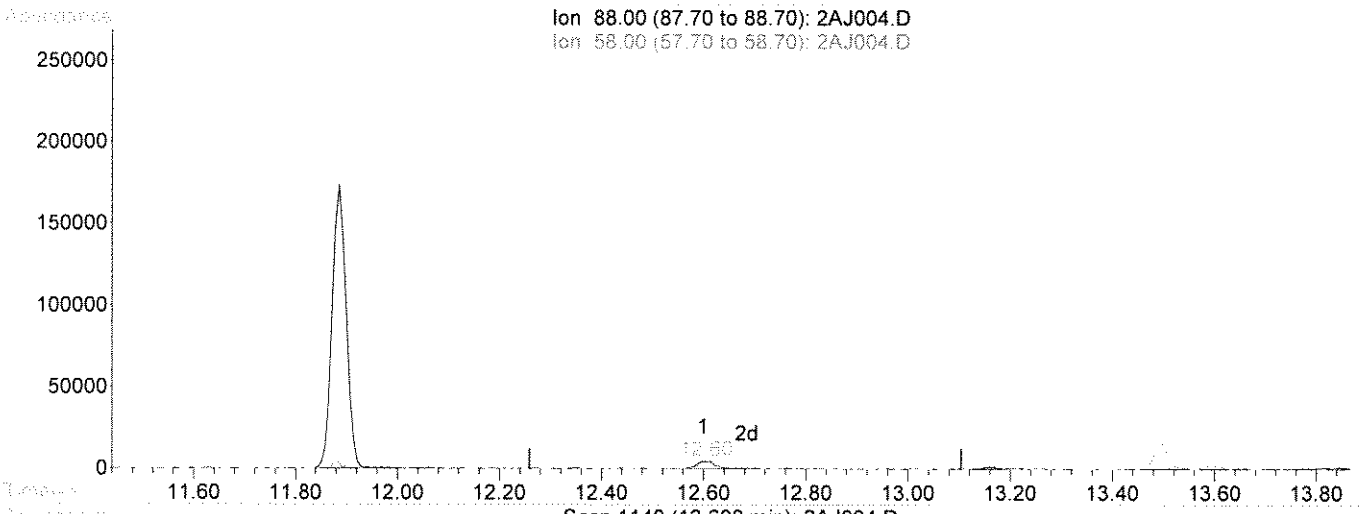
Ion	Exp%	Act%
88.00	100	100
58.00	63.40	99.40#
0.00	0.00	0.00
0.00	0.00	0.00

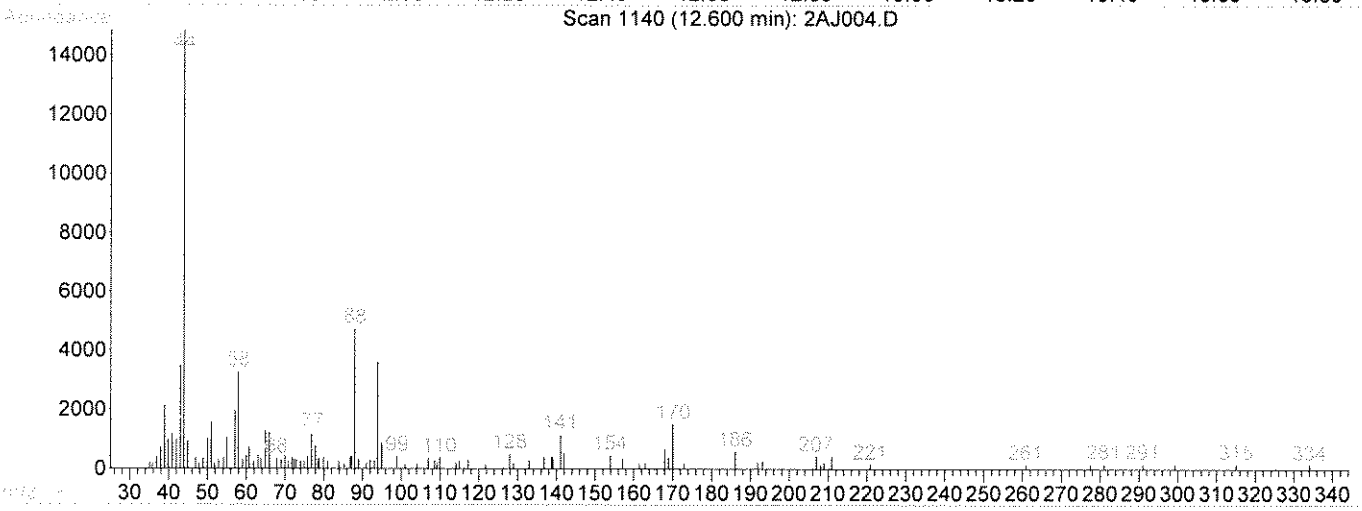
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 1/16/13
Review by/Date: 1/31-1/7/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(49) 1,4-Dioxane

12.60min 110.99ug/L m

response 13185

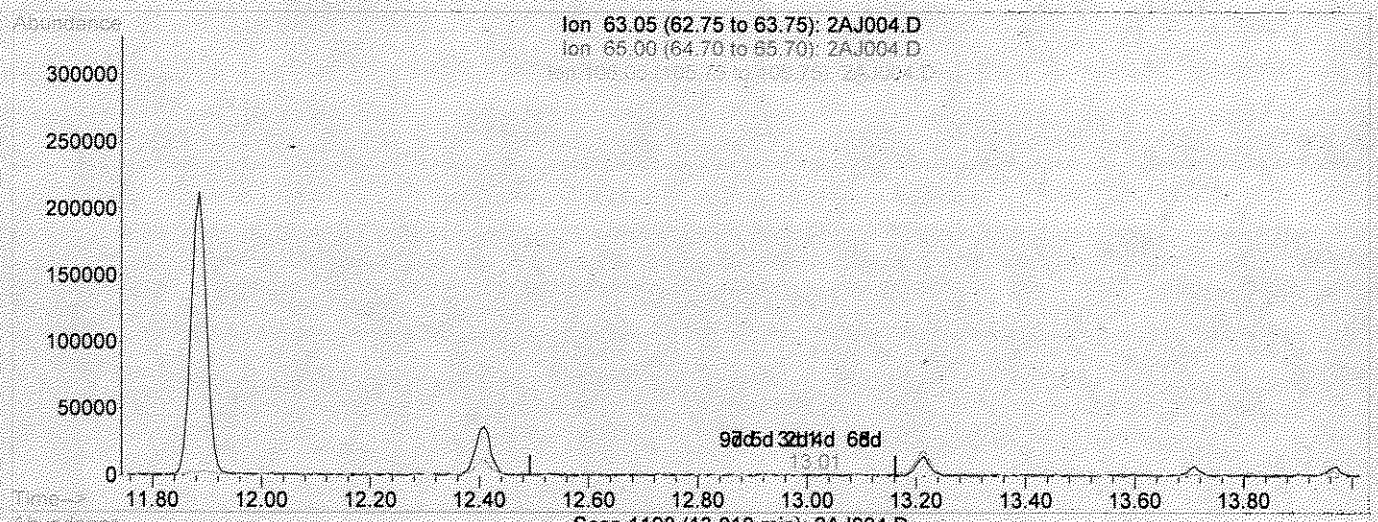
Ion	Exp%	Act%
88.00	100	100
58.00	63.40	89.58#
0.00	0.00	0.00
0.00	0.00	0.00

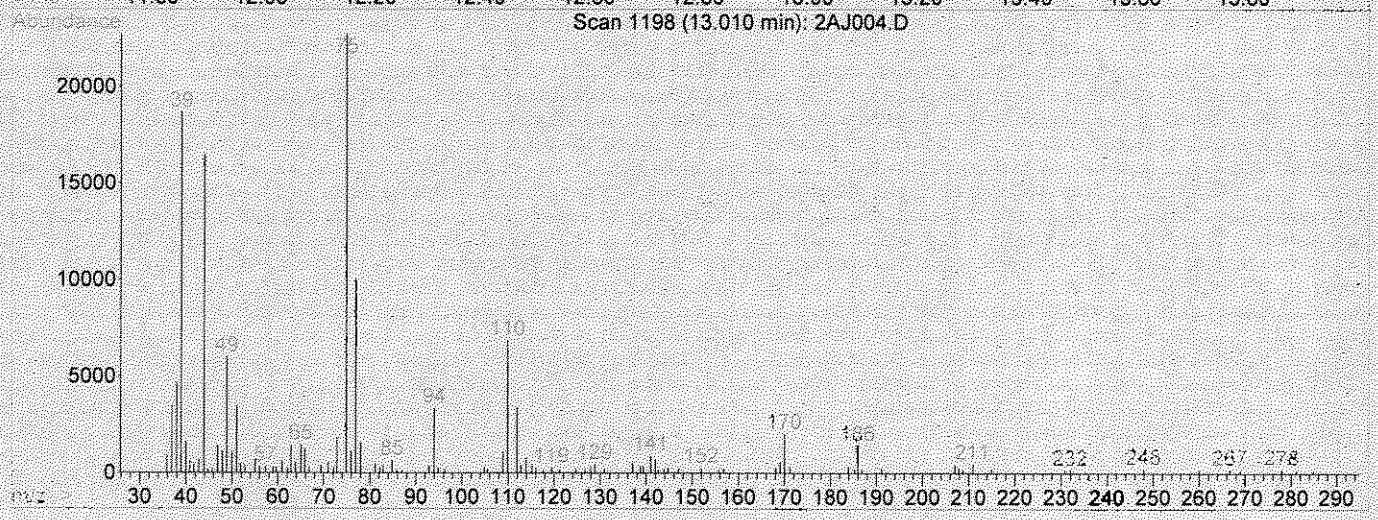
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date LLT 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:39 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:40:00 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(53) 2-Chloroethyl vinyl ether

13.01min 3.11ug/L

response 625

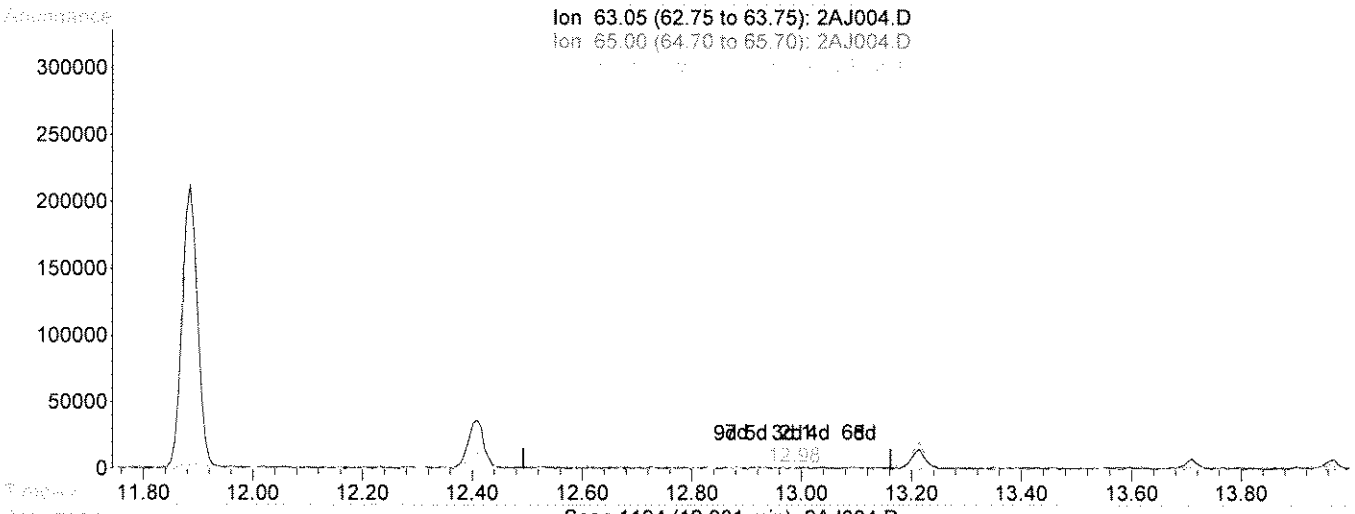
Ion	Exp%	Act%
63.05	100	100
65.00	20.00	235.36#
106.05	20.90	0.00
0.00	0.00	0.00

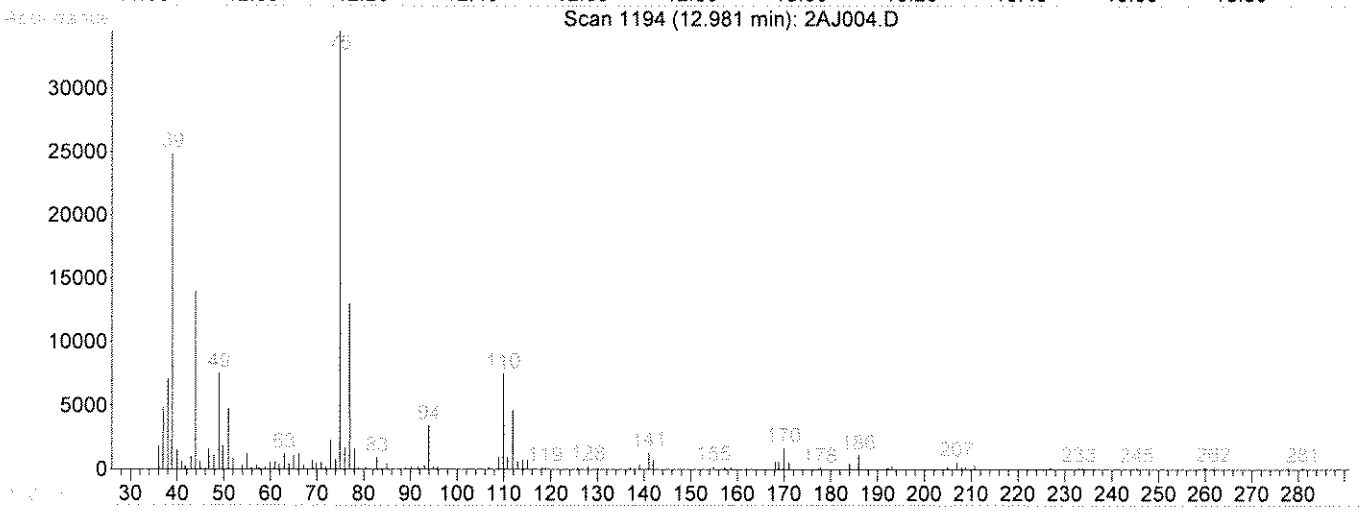
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(53) 2-Chloroethyl vinyl ether

12.98min 4.88ug/L m

response 979

Ion	Exp%	Act%
63.05	100	100
65.00	20.00	150.26#
106.05	20.90	0.00
0.00	0.00	0.00

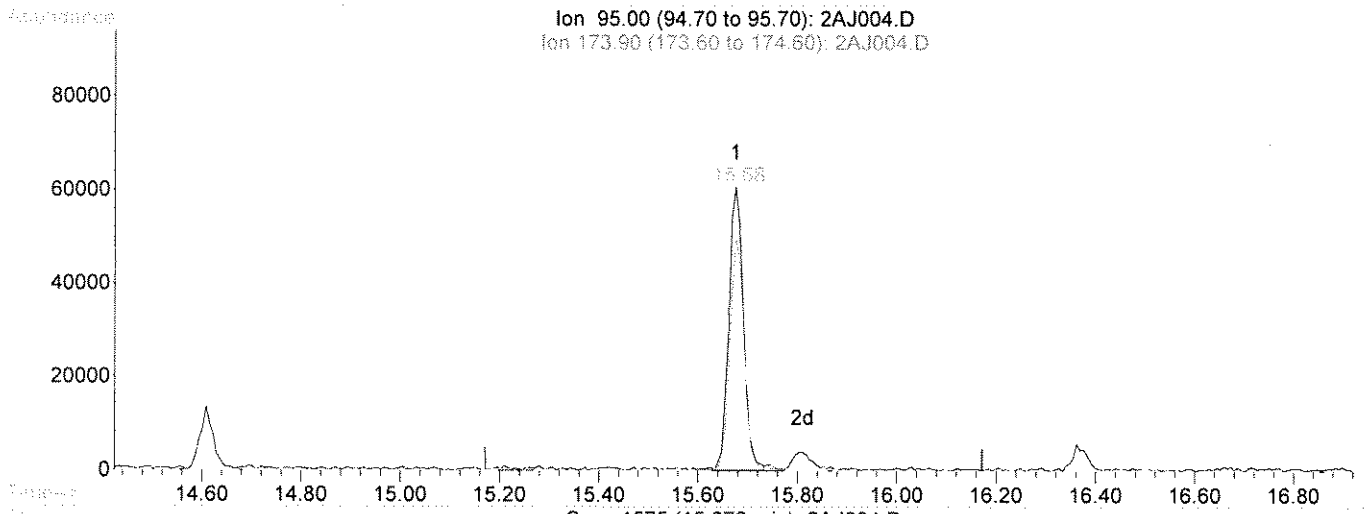
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date [illegible] 1/16/13
Review by/Date: [illegible] 1-17-13

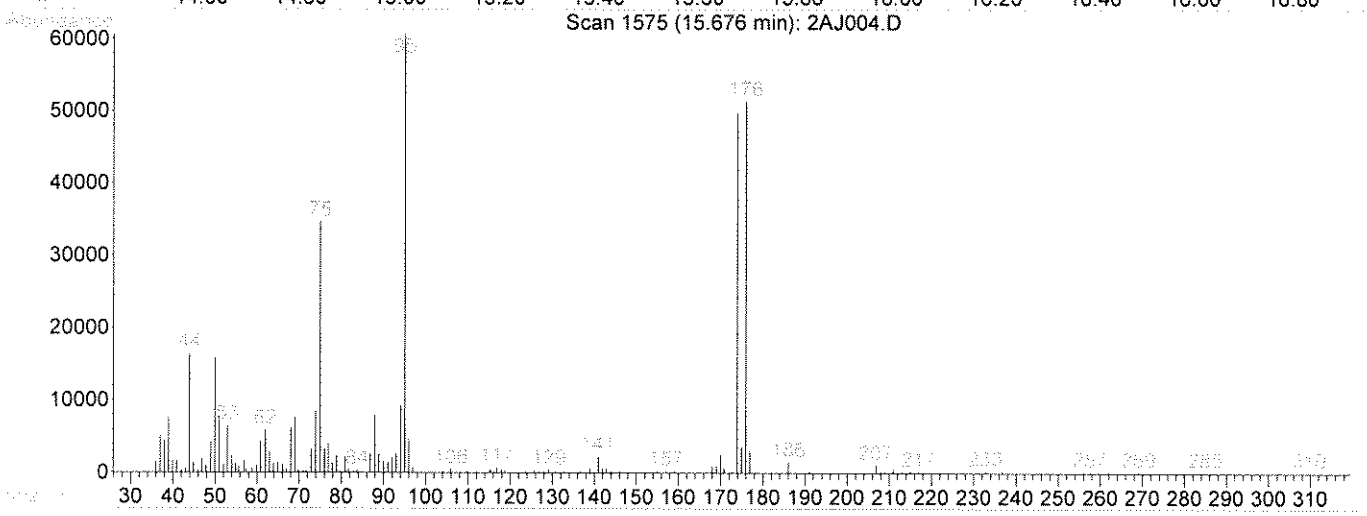
2AJ004.D W1301050.M Wed Jan 16 13:30:38 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:03 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:09:09 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(77) Bromofluorobenzene (s)

15.68min 5.94ug/L

response 122963

Ion	Exp%	Act%
95.00	100	100
173.90	65.80	81.10#
74.95	47.00	66.96#
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

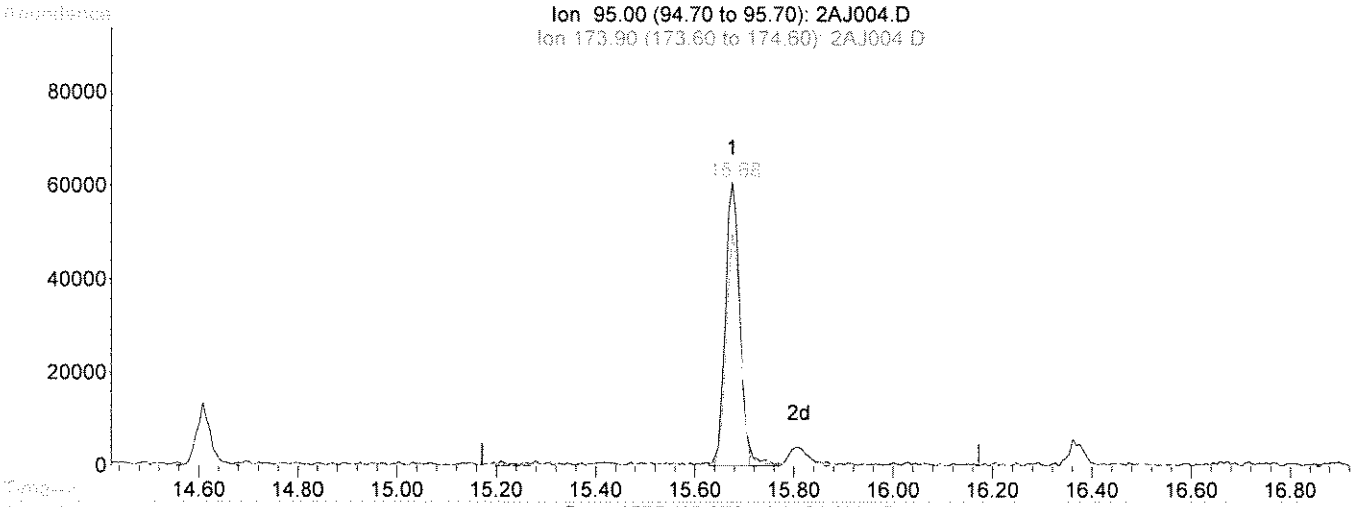
Review by/Date kat 1/16/13

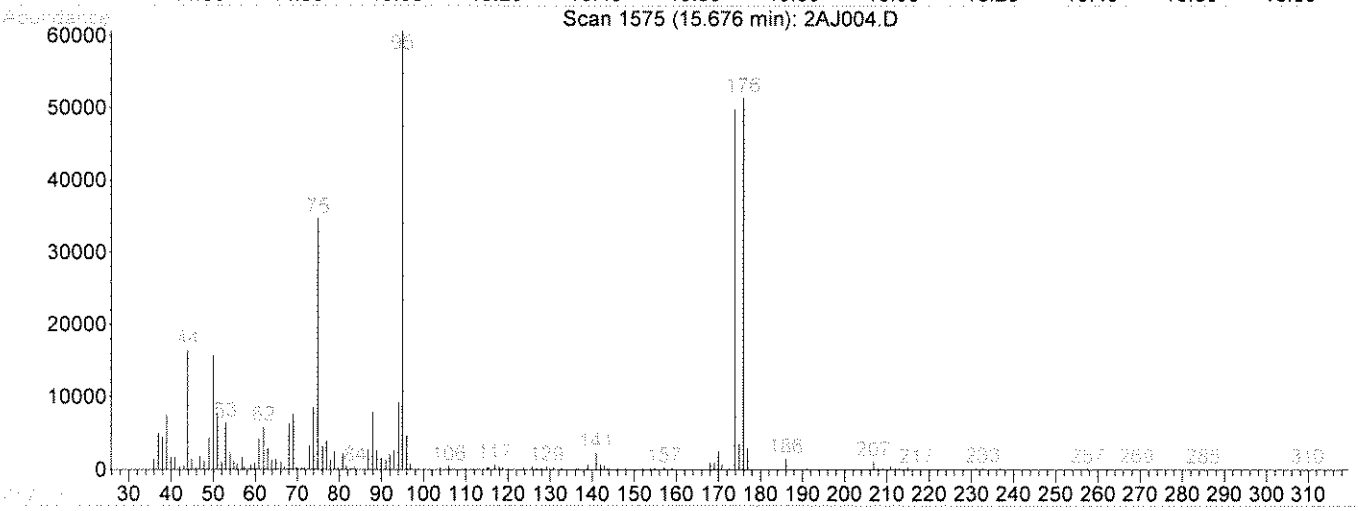
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(77) Bromofluorobenzene (s)

15.68min 5.85ug/L m

response 121016

Ion	Exp%	Act%
95.00	100	100
173.90	65.80	82.40#
74.95	47.00	68.04#
0.00	0.00	0.00

Select One:

[] Original Integration [✓] Manual Integration

Select reason for manual integration:

[✓] Poor integration (peak tailing, baseline selection)

[] Incorrect peak selection/Peak not found

[] Hump integration

[] Baseline drop for split peaks

[] ISTD reintegration

[] Other:

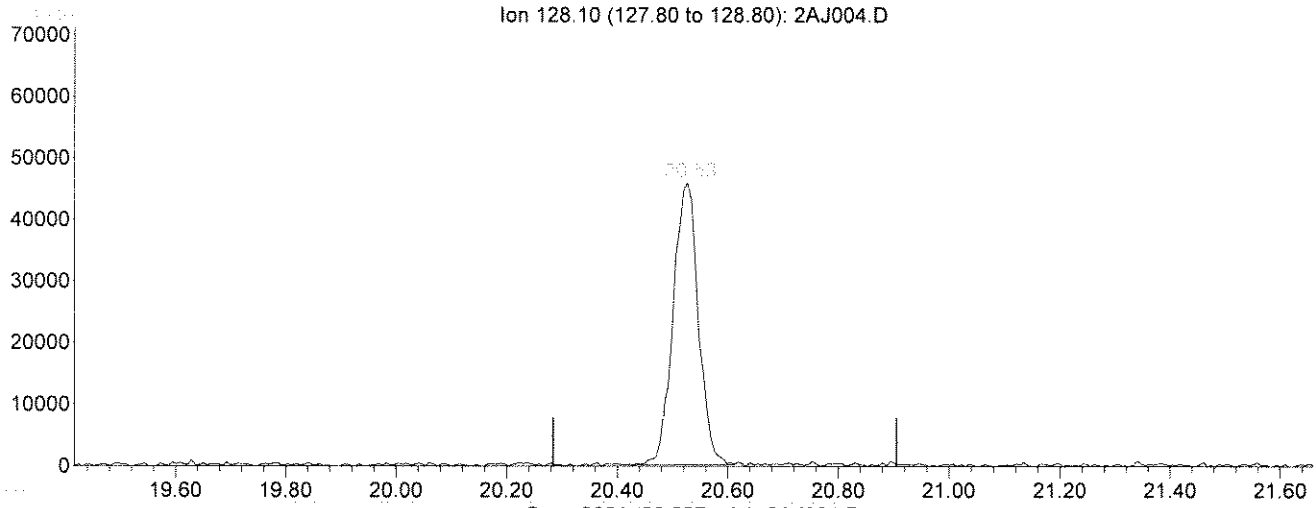
Review by/Date LLT 1/16/13

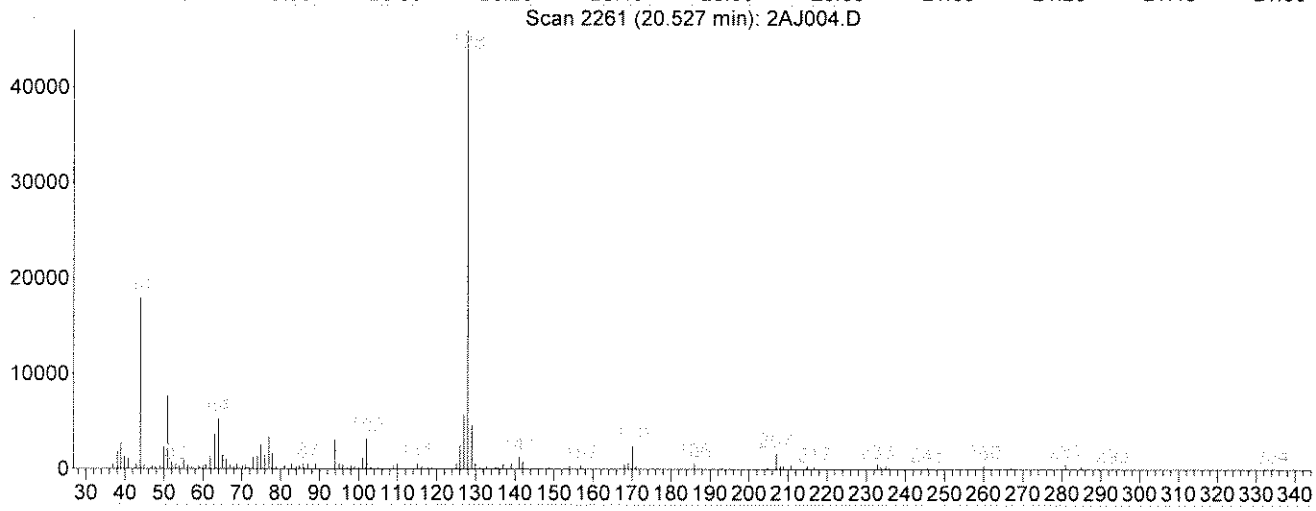
Review by/Date: LS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 9:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:03:16 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(96) Naphthalene

20.53min 4.23ug/L

response 145078

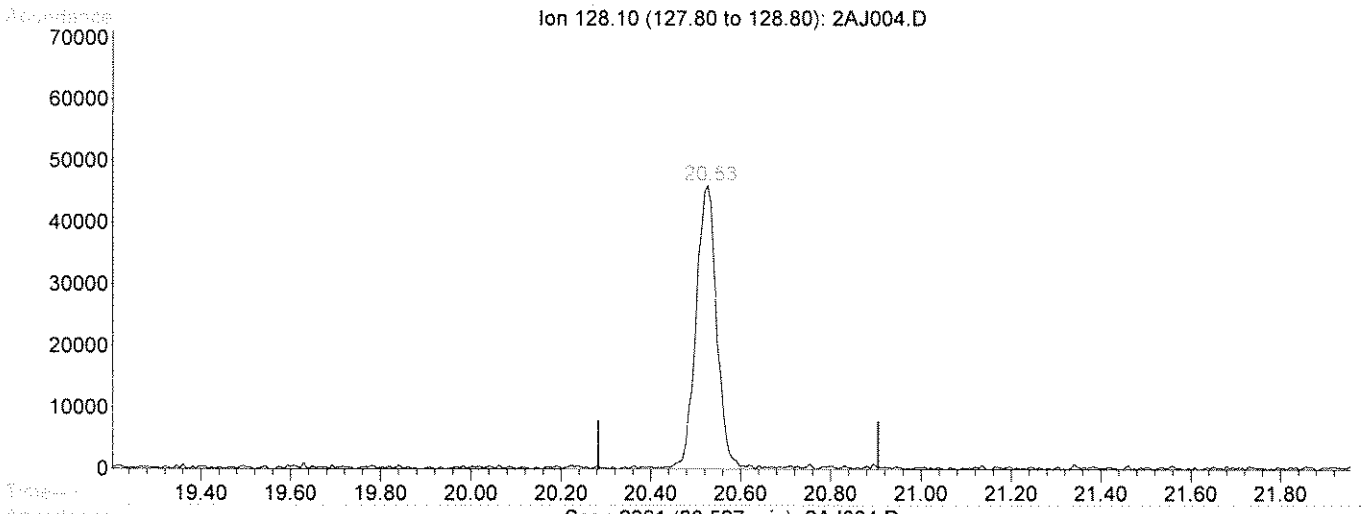
Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

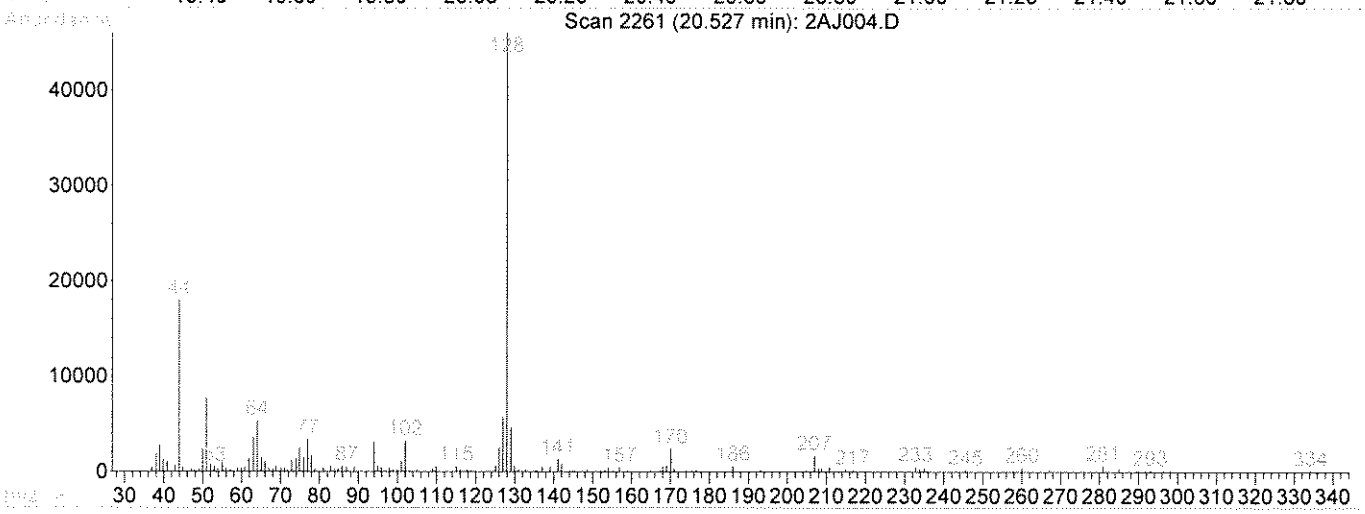
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LT 1/16/13
Review by/Date: 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ004.D Vial: 4
Acq On : 15 Jan 2013 15:05 Operator: kat
Sample : aa22782-cal2 Inst : OVGCMS2
Misc : cal 5 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:43 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ004.D

(96) Naphthalene

20.53min 4.65ug/L m

response 159327

Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date KT 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:40 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KT 1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1225157	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1977061m	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1710055	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	819339	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	330285	19.66 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 39.32%#		
44) 1,2-Dichloroethane-d4	11.48	65	324974	15.66 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 31.32%#		
56) D8-Toluene	13.17	98	988652	21.74 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 43.48%		
77) Bromofluorobenzene	15.68	95	386747	19.15 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 38.30%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	435548	26.24 ug/L	98
3) Chloromethane	5.36	50	505376	25.29 ug/L	97
4) Vinyl Chloride	5.60	62	522623	24.20 ug/L	99
5) Bromomethane	6.39	94	202996	17.41 ug/L	97
6) Chloroethane	6.67	64	174018	11.77 ug/L	95
7) Trichlorofluoromethane	6.96	101	402125	13.82 ug/L	96
8) Trichlorotrifluoroethane	7.93	101	186883	10.18 ug/L	89
9) acrolein	8.43	56	243797	759.84 ug/L	97
10) Acetone	8.85	43	106898	20.66 ug/L	93
11) 1,1-Dichloroethene	7.89	96	136557	8.95 ug/L	83
12) 3-Chloropropene	8.63	76	189798	24.97 ug/L	75
13) Acetonitrile	9.50	41	376929	209.26 ug/L	98
14) Iodomethane	8.15	142	286384m	17.01 ug/L	87
15) Carbon disulfide	7.98	76	802716	14.74 ug/L	100
16) Methylene Chloride	8.78	84	251868	17.09 ug/L	94
17) Methyl tert-butyl ether	9.14	73	452412	12.30 ug/L	99
18) Acrylonitrile	9.88	53	828956	201.26 ug/L	96
19) T-1,2-Dichloroethene	9.01	96	246392	18.81 ug/L	94
20) Isopropyl Ether	9.59	45	859067	12.84 ug/L	97
21) C-1,2-Dichloroethene	10.44	96	250781	17.15 ug/L	98
22) 1,1-Dichloroethane	9.81	63	457333	15.15 ug/L	99
23) Vinyl Acetate	10.05	43	918355	17.30 ug/L	99
24) Chloroprene	9.78	53	525088	18.36 ug/L	80
25) 2-Butanone	11.02	72	26038	22.80 ug/L #	73
26) Propionitrile	11.36	54	350854	198.19 ug/L	100
27) 2,2-Dichloropropane	10.56	77	336563	13.14 ug/L	99
28) Methacrylonitrile	11.37	67	942087	194.81 ug/L #	41
29) Chloroform	10.70	83	399400	13.58 ug/L	92
31) Dibromofluoromethane	10.90	113	330285	19.66 ug/L	100
32) Bromochloromethane	10.66	128	135317	18.50 ug/L	82
33) 1,1,1-Trichloroethane	10.97	97	311355	12.88 ug/L #	95
34) 1,1-Dichloropropene	11.08	75	325977	15.44 ug/L	92
35) Diethyl ether	7.53	59	150857	9.02 ug/l	89
36) Methyl Acetate	9.00	74	33843	19.69 ug/l #	57
37) Cyclohexane	10.68	56	506705	19.99 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:40 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.90	55	402096	18.53 ug/l #	85
40) Carbon Tetrachloride	10.90	117	270612	12.48 ug/L	97
41) 1,2-Dichloroethane	11.54	62	292168	11.64 ug/L	98
42) Benzene	11.34	78	834454	15.26 ug/L #	50
43) Isobutyl Alcohol	11.40	43	419651	285.18 ug/L #	1
45) 1,2-Dichloroethane-d4	11.48	65	324974	15.66 ug/l	96
46) Trichloroethene	11.89	130	249617	17.63 ug/L	89
47) 1,2-Dichloropropane	12.40	63	248313	16.16 ug/L	87
48) Methyl Methacrylate	12.48	100	73903	23.33 ug/L #	1
49) 1,4-Dioxane	12.60	88	49696	425.82 ug/L #	73
50) Bromodichloromethane	12.43	83	291420	13.70 ug/L #	100
51) Dibromomethane	12.32	93	136901	13.37 ug/L	86
52) 4-Methyl-2-Pentanone	13.49	100	35619	25.00 ug/L	73
53) 2-Chloroethyl vinyl ether	12.99	63	4658	23.62 ug/L	69
54) 2-Hexanone	14.20	43	232437	21.14 ug/L	93
55) C-1,3-Dichloropropene	12.99	75	396549	15.67 ug/L	77
57) D8-Toluene	13.17	98	988652	21.74 ug/L	99
59) Toluene	13.21	92	534568	16.93 ug/L	100
60) Ethyl Methacrylate	13.59	69	353803	21.73 ug/L #	70
61) T-1,3-Dichloropropene	13.55	75	321550	14.40 ug/L	77
62) 1,1,2-Trichloroethane	13.71	97	173295	15.99 ug/L	97
63) 1,3-Dichloropropane	13.97	76	320574	15.06 ug/L	94
64) Tetrachloroethene	13.57	164	189164	18.34 ug/L	91
65) Dibromochloromethane	13.90	129	239519	15.68 ug/L	96
66) 1,2-Dibromoethane	14.15	107	203504	16.48 ug/L	93
67) Chlorobenzene	14.57	112	622405	19.09 ug/L	92
68) 1,1,1,2-Tetrachloroethane	14.61	131	221907	15.98 ug/L	91
69) Ethylbenzene	14.54	106	300691	17.30 ug/L	100
70) m-xylene & p-xylene	14.66	106	779424	36.70 ug/L	77
71) O-Xylene	15.07	106	394733	19.91 ug/L	91
72) Bromoform	15.22	173	148285	15.17 ug/L	92
73) Styrene	15.11	104	648574	16.92 ug/L	90
74) Isopropylbenzene	15.35	105	982252	18.34 ug/L	98
75) 1,2,3-Trichloropropane	16.00	75	287068	15.79 ug/L	97
76) 1,1,2,2-Tetrachloroethane	15.81	83	231236	14.69 ug/L	95
78) Bromofluorobenzene	15.68	95	386747	19.15 ug/L #	70
79) T-1,4-dichloro-2-butene	16.00	53	93895	16.61 ug/L	99
80) N-Propylbenzene	15.75	91	1174646	18.05 ug/L	94
81) Pentachloroethane	16.37	167	198845	22.43 ug/l	97
83) Bromobenzene	15.83	156	244587	15.51 ug/L	81
84) 1,3,5-Trimethylbenzene	15.90	105	753993	15.21 ug/L	90
85) 2-Chlorotoluene	15.97	91	705394	16.42 ug/L	94
86) 4-Chlorotoluene	16.14	91	699578	16.55 ug/L	90
87) 1,2,4-Trimethylbenzene	16.34	105	728138	14.47 ug/L	93
88) s-Butylbenzene	16.47	105	1034603	18.01 ug/L	94
89) tert-Butylbenzene	16.28	119	682385	17.70 ug/L	93
90) p-Isopropyltoluene	16.59	119	770025	15.92 ug/L	95
91) 1,3-Dichlorobenzene	16.82	146	467431	18.09 ug/L	92
92) 1,4-Dichlorobenzene	16.92	146	445382	15.63 ug/L	95
93) 1,2-Dichlorobenzene	17.47	146	440266	18.18 ug/L	97
94) N-Butylbenzene	17.11	91	758909	14.82 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:40 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

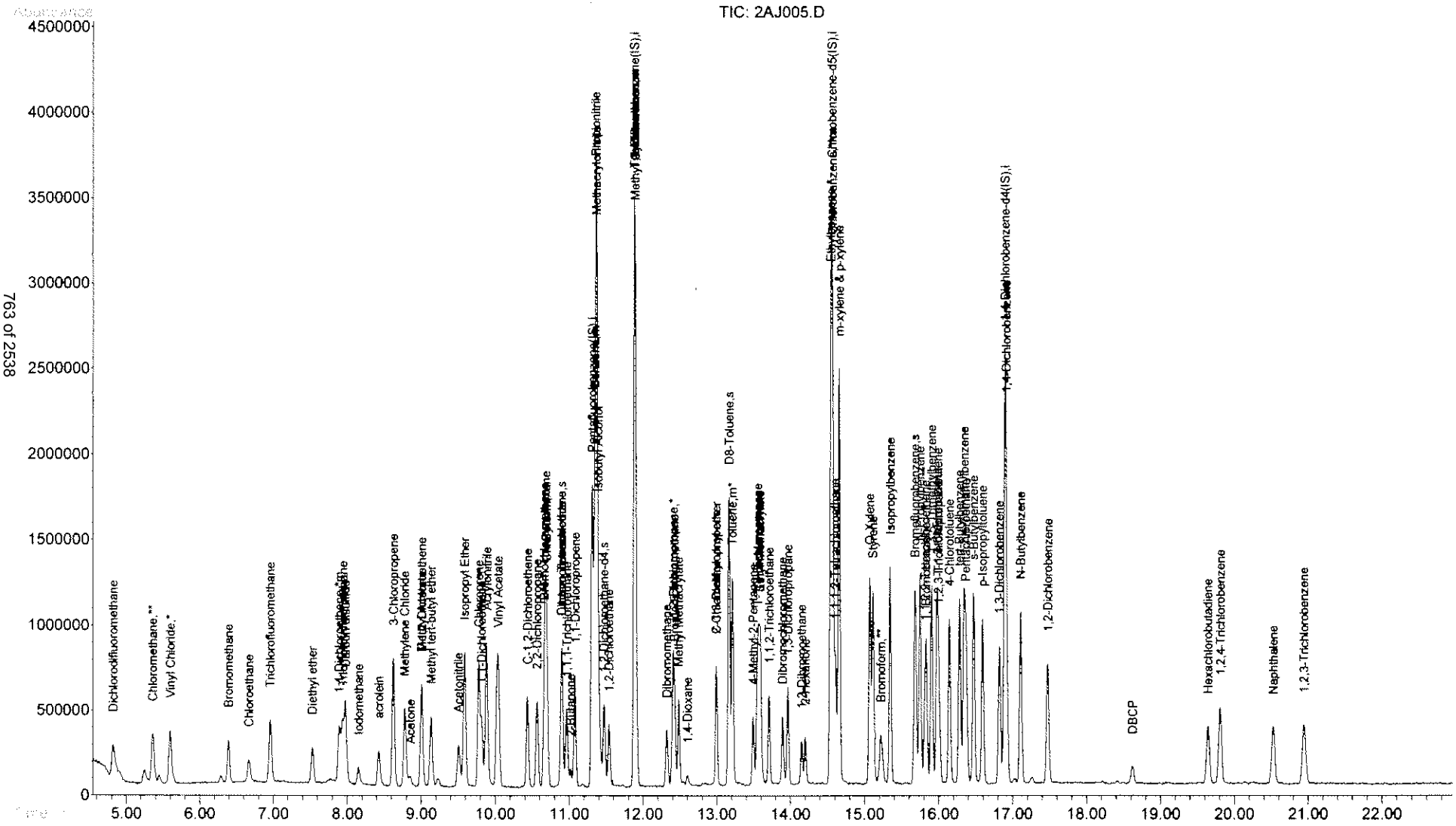
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	DBCP	18.62	75	33056	11.11 ug/L	76
96)	Naphthalene	20.52	128	528319	15.09 ug/L	100
97)	1,2,4-Trichlorobenzene	19.80	180	257672	16.15 ug/L	91
98)	Hexachlorobutadiene	19.64	225	124478	15.48 ug/L	97
99)	1,2,3-Trichlorobenzene	20.95	180	224301	15.09 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:40 2013 Quant Results File: W1301050.RES

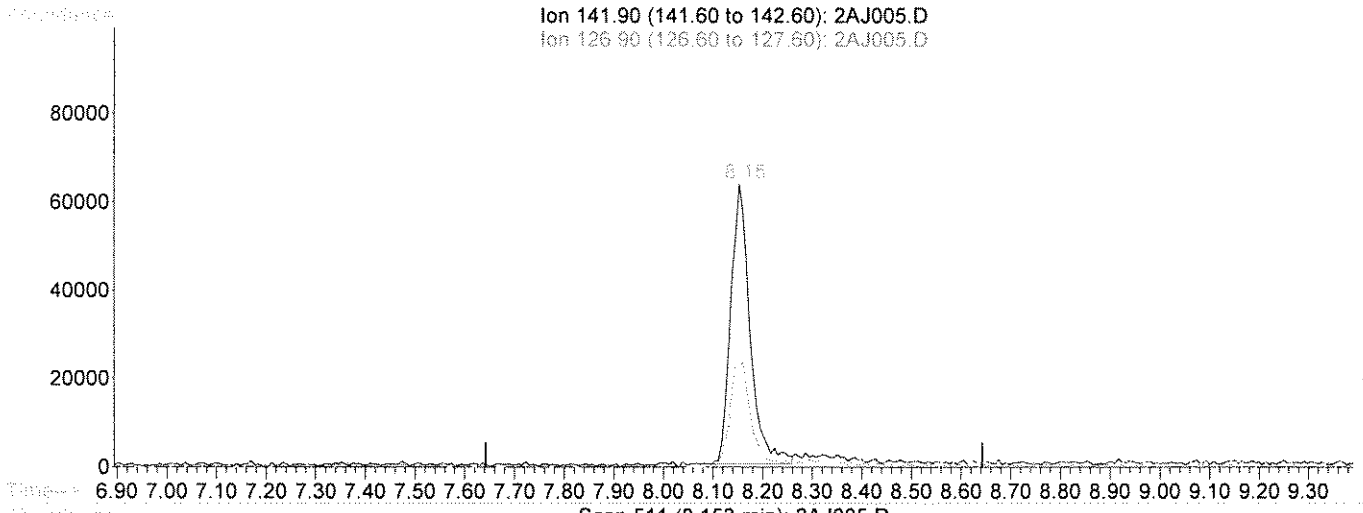
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration

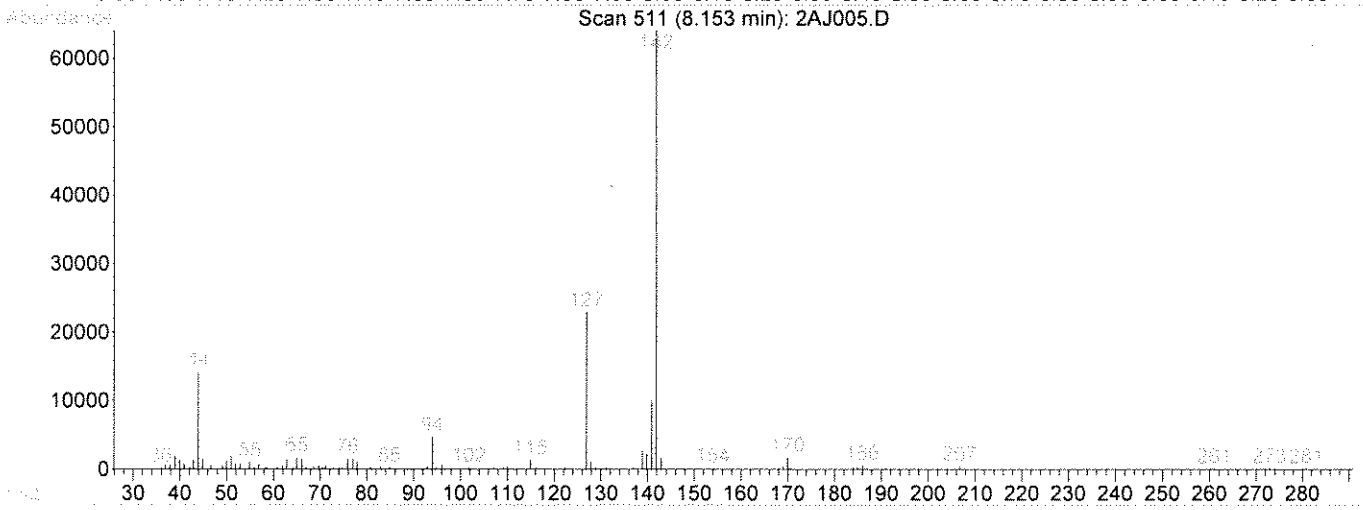


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 9:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:33:11 2013
Response via : Multiple Level Calibration





(14) Iodomethane

8.15min 10.22ug/L

response 171993

Ion	Exp%	Act%
141.90	100	100
126.90	50.50	39.77
140.90	14.40	15.41
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

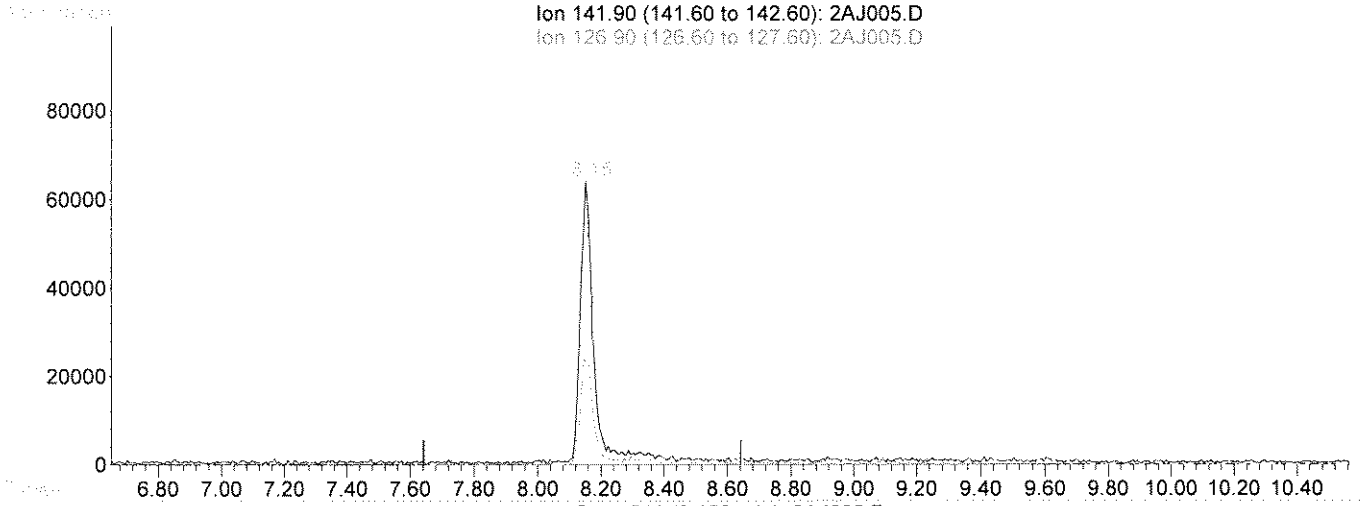
Review by/Date KT 1/16/13

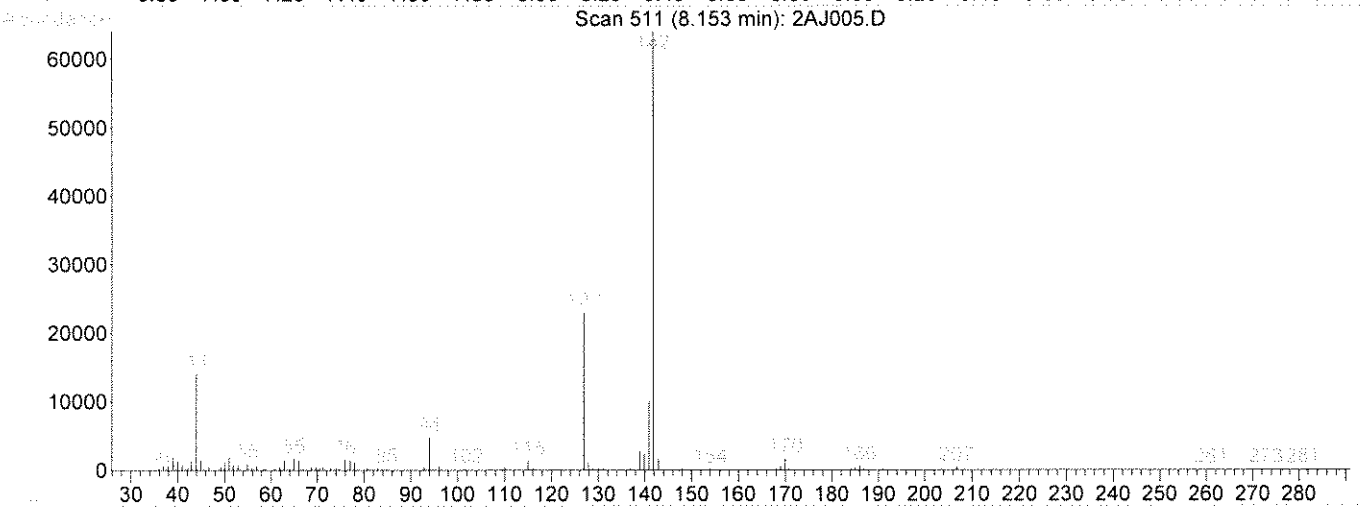
Review by/Date: MB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:47 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ005.D

(14) Iodomethane

8.15min 17.01ug/L m

response 286384

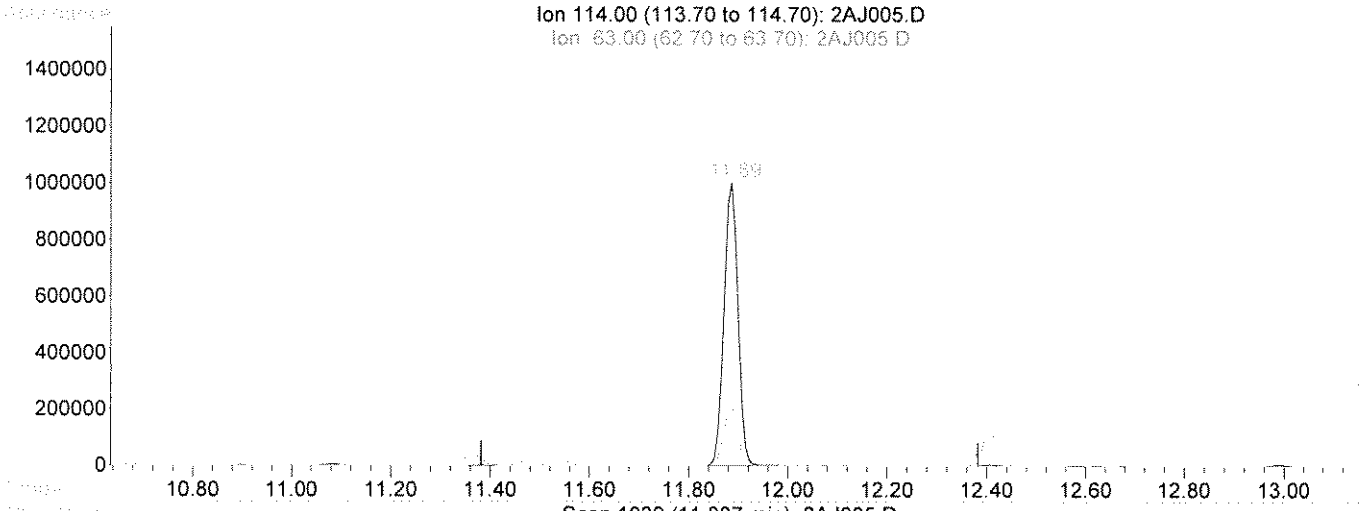
Ion	Exp%	Act%
141.90	100	100
126.90	50.50	23.88
140.90	14.40	9.26
0.00	0.00	0.00

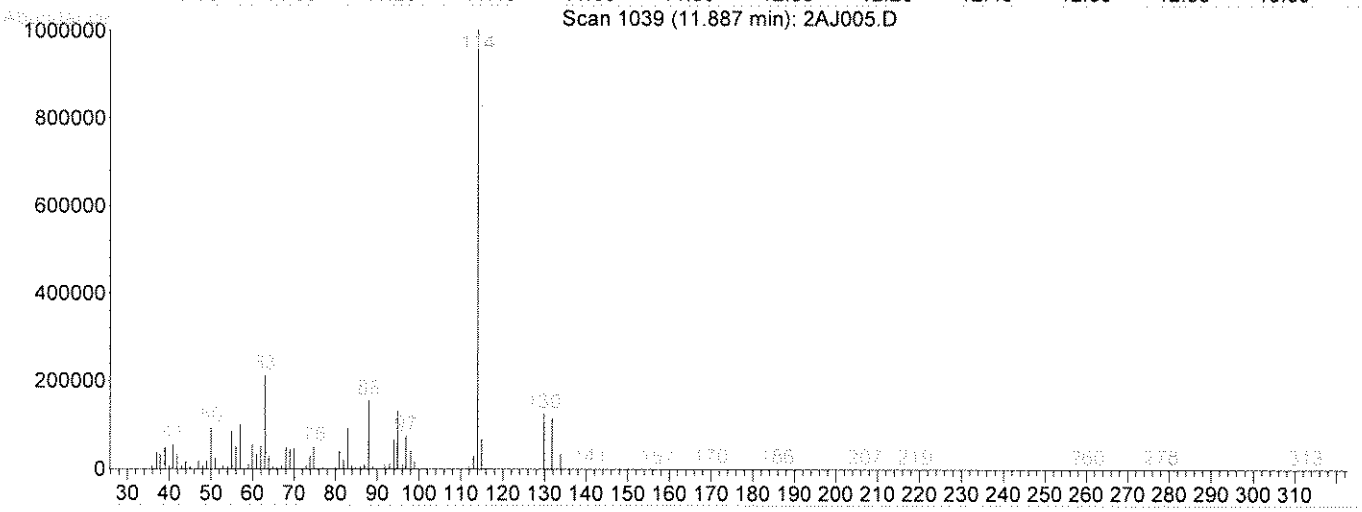
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date VT 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:47 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ005.D

(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/L

response 1974615

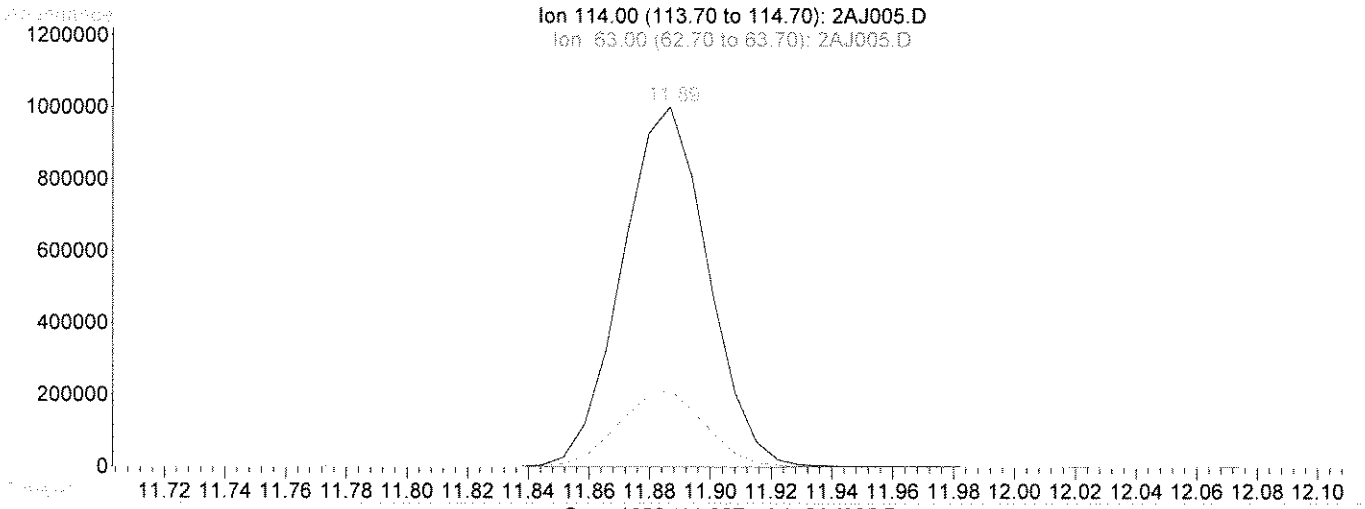
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	21.14
88.00	18.00	16.54
0.00	0.00	0.00

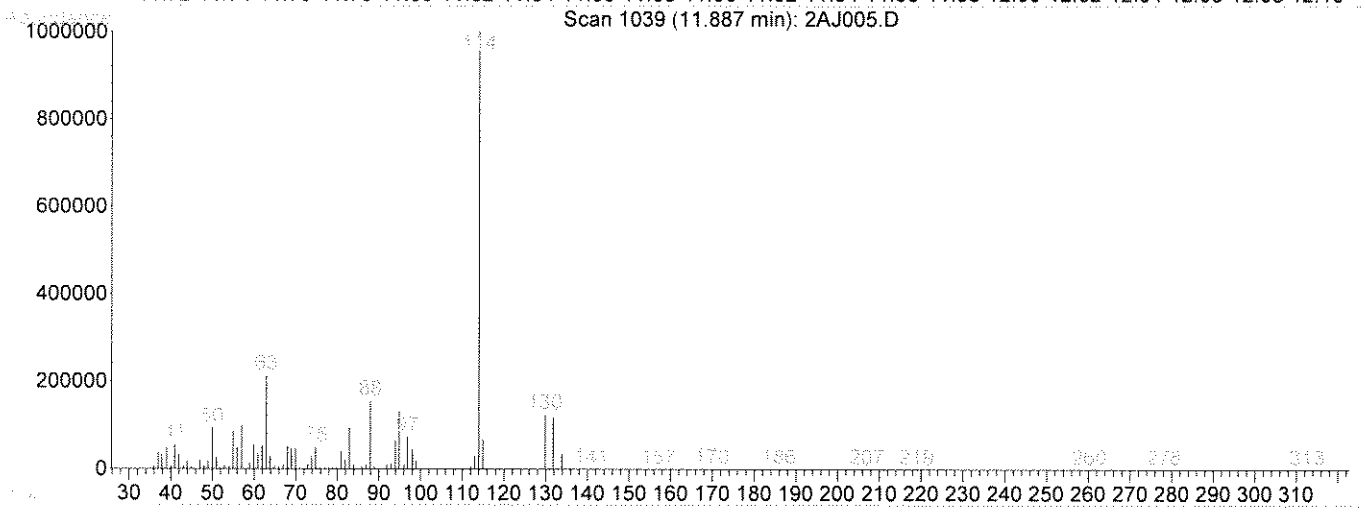
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KG 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ005.D Vial: 5
Acq On : 15 Jan 2013 15:37 Operator: kat
Sample : aa22782-cal3 Inst : OVGCMS2
Misc : cal 20 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:40 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ005.D

(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/L m

response 1977061

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	21.12
88.00	18.00	16.52
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LT 1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1248446	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1974011	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1726256	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	809505	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	628311	36.70 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 73.40%		
44) 1,2-Dichloroethane-d4	11.47	65	646084m	31.19 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 62.38%		
56) D8-Toluene	13.16	98	1954005	43.04 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 86.08%		
77) Bromofluorobenzene	15.68	95	789392	38.72 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 77.44%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	1056467	62.46 ug/L	100
3) Chloromethane	5.36	50	1225709	60.19 ug/L	98
4) Vinyl Chloride	5.60	62	1233269	56.04 ug/L	99
5) Bromomethane	6.39	94	514066m	43.26 ug/L	99
6) Chloroethane	6.64	64	445180m	29.55 ug/L	98
7) Trichlorofluoromethane	6.95	101	987564	33.30 ug/L	97
8) Trichlorotrifluoroethane	7.92	101	461628	24.69 ug/L	90
9) acrolein	8.43	56	717636	2194.93 ug/L	97
10) Acetone	8.86	43	248689	47.18 ug/L	86
11) 1,1-Dichloroethene	7.89	96	333566	21.46 ug/L	80
12) 3-Chloropropene	8.62	76	454538	58.68 ug/L	78
13) Acetonitrile	9.51	41	996457	542.88 ug/L	100
14) Iodomethane	8.15	142	872021m	50.83 ug/L	88
15) Carbon disulfide	7.97	76	1931231	34.80 ug/L	100
16) Methylene Chloride	8.78	84	621243	41.36 ug/L	94
17) Methyl tert-butyl ether	9.13	73	1137436	30.35 ug/L	97
18) Acrylonitrile	9.88	53	2195235	523.04 ug/L	96
19) T-1,2-Dichloroethene	9.01	96	599493	44.90 ug/L	94
20) Isopropyl Ether	9.59	45	2090632	30.66 ug/L	95
21) C-1,2-Dichloroethene	10.44	96	615455	41.30 ug/L	97
22) 1,1-Dichloroethane	9.82	63	1102153	35.83 ug/L	99
23) Vinyl Acetate	10.05	43	2257634	41.73 ug/L	99
24) Chloroprene	9.78	53	1249786	42.88 ug/L	78
25) 2-Butanone	11.02	72	69559	59.77 ug/L	85
26) Propionitrile	11.35	54	830400	460.33 ug/L	100
27) 2,2-Dichloropropane	10.56	77	804781	30.82 ug/L	100
28) Methacrylonitrile	11.37	67	2218386	450.18 ug/L #	45
29) Chloroform	10.70	83	986372	32.92 ug/L	93
31) Dibromofluoromethane	10.90	113	628311	36.70 ug/L	100
32) Bromochloromethane	10.66	128	323161	43.36 ug/L	79
33) 1,1,1-Trichloroethane	10.97	97	743417	30.18 ug/L #	98
34) 1,1-Dichloropropene	11.08	75	791749	36.79 ug/L	91
35) Diethyl ether	7.53	59	393384	23.08 ug/l	93
36) Methyl Acetate	8.99	74	89147	50.89 ug/l #	69
37) Cyclohexane	10.68	56	1201425	46.52 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	957260	44.19 ug/l #	86
40) Carbon Tetrachloride	10.89	117	666565	30.80 ug/L	96
41) 1,2-Dichloroethane	11.54	62	729959	29.11 ug/L	97
42) Benzene	11.34	78	2007801	36.78 ug/L #	51
43) Isobutyl Alcohol	11.40	43	1057504	719.75 ug/L #	1
45) 1,2-Dichloroethane-d4	11.47	65	646084m	31.19 ug/l	95
46) Trichloroethene	11.89	130	592268	41.90 ug/L	87
47) 1,2-Dichloropropane	12.41	63	619659	40.39 ug/L	86
48) Methyl Methacrylate	12.49	100	191750	60.62 ug/L #	1
49) 1,4-Dioxane	12.60	88	133156	1142.70 ug/L #	77
50) Bromodichloromethane	12.43	83	720577	33.92 ug/L #	100
51) Dibromomethane	12.32	93	353622	34.59 ug/L	87
52) 4-Methyl-2-Pentanone	13.49	100	88135	61.96 ug/L	75
53) 2-Chloroethyl vinyl ether	13.00	63	9839m	49.98 ug/L	78
54) 2-Hexanone	14.20	43	583183	53.13 ug/L	94
55) C-1,3-Dichloropropene	13.00	75	986321	39.04 ug/L	77
57) D8-Toluene	13.16	98	1954005	43.04 ug/L	99
59) Toluene	13.21	92	1307930	41.02 ug/L	98
60) Ethyl Methacrylate	13.60	69	885456	53.87 ug/L #	70
61) T-1,3-Dichloropropene	13.55	75	785560	34.84 ug/L	75
62) 1,1,2-Trichloroethane	13.71	97	436300	39.89 ug/L	98
63) 1,3-Dichloropropane	13.96	76	806693	37.55 ug/L	97
64) Tetrachloroethene	13.57	164	440725	42.32 ug/L	93
65) Dibromochloromethane	13.89	129	586456	38.04 ug/L	96
66) 1,2-Dibromoethane	14.15	107	505058	40.52 ug/L	93
67) Chlorobenzene	14.58	112	1500002	45.57 ug/L	94
68) 1,1,1,2-Tetrachloroethane	14.61	131	546668	38.99 ug/L	90
69) Ethylbenzene	14.54	106	742143	42.30 ug/L	93
70) m-xylene & p-xylene	14.66	106	1879482	87.66 ug/L	77
71) O-Xylene	15.07	106	947113	47.32 ug/L	92
72) Bromoform	15.22	173	368019	37.29 ug/L	92
73) Styrene	15.12	104	1603159	41.43 ug/L	90
74) Isopropylbenzene	15.34	105	2396852	44.33 ug/L	98
75) 1,2,3-Trichloropropane	16.00	75	733491	39.96 ug/L	99
76) 1,1,2,2-Tetrachloroethane	15.81	83	551219	34.69 ug/L	97
78) Bromofluorobenzene	15.68	95	789392	38.72 ug/L #	69
79) T-1,4-dichloro-2-butene	15.99	53	235036	41.20 ug/L	97
80) N-Propylbenzene	15.75	91	2862560	43.58 ug/L	94
81) Pentachloroethane	16.37	167	486468	54.36 ug/l	94
83) Bromobenzene	15.83	156	623223	40.00 ug/L	81
84) 1,3,5-Trimethylbenzene	15.90	105	1849673	37.77 ug/L	88
85) 2-Chlorotoluene	15.97	91	1699287	40.03 ug/L	92
86) 4-Chlorotoluene	16.14	91	1720608	41.20 ug/L	89
87) 1,2,4-Trimethylbenzene	16.34	105	1817608	36.56 ug/L	93
88) s-Butylbenzene	16.47	105	2559313	45.09 ug/L	93
89) tert-Butylbenzene	16.28	119	1675269	43.99 ug/L	93
90) p-Isopropyltoluene	16.59	119	1892811	39.60 ug/L	95
91) 1,3-Dichlorobenzene	16.82	146	1163786	45.60 ug/L	92
92) 1,4-Dichlorobenzene	16.91	146	1113197	39.53 ug/L	94
93) 1,2-Dichlorobenzene	17.47	146	1084922	45.35 ug/L	98
94) N-Butylbenzene	17.10	91	1839385	36.35 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

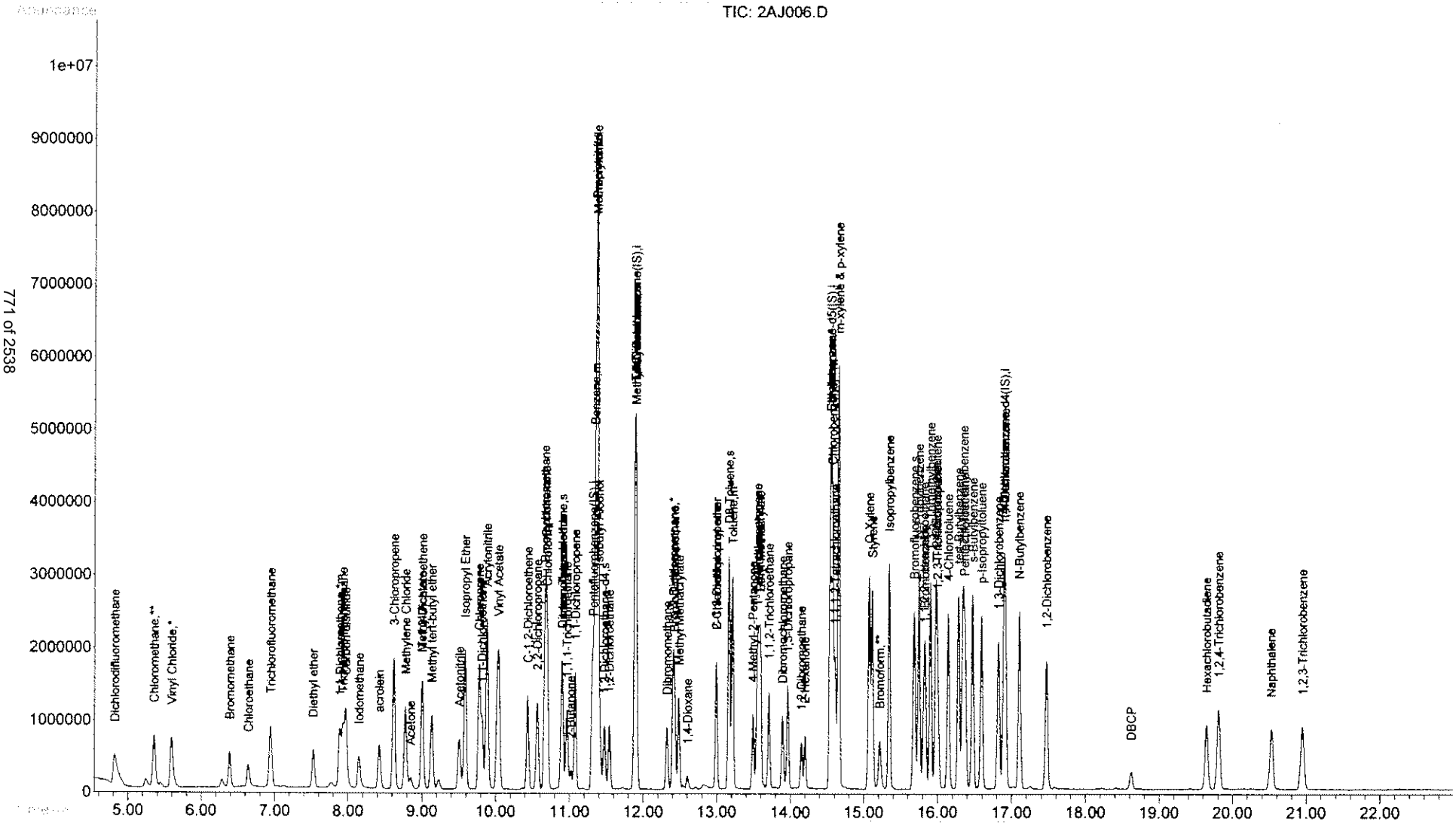
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	DBCP	18.62	75	84864	28.86 ug/L	85
96)	Naphthalene	20.53	128	1296876	37.49 ug/L	100
97)	1,2,4-Trichlorobenzene	19.81	180	640730	40.66 ug/L	89
98)	Hexachlorobutadiene	19.64	225	304576	38.33 ug/L	97
99)	1,2,3-Trichlorobenzene	20.94	180	567155	38.63 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: W1301050.RES

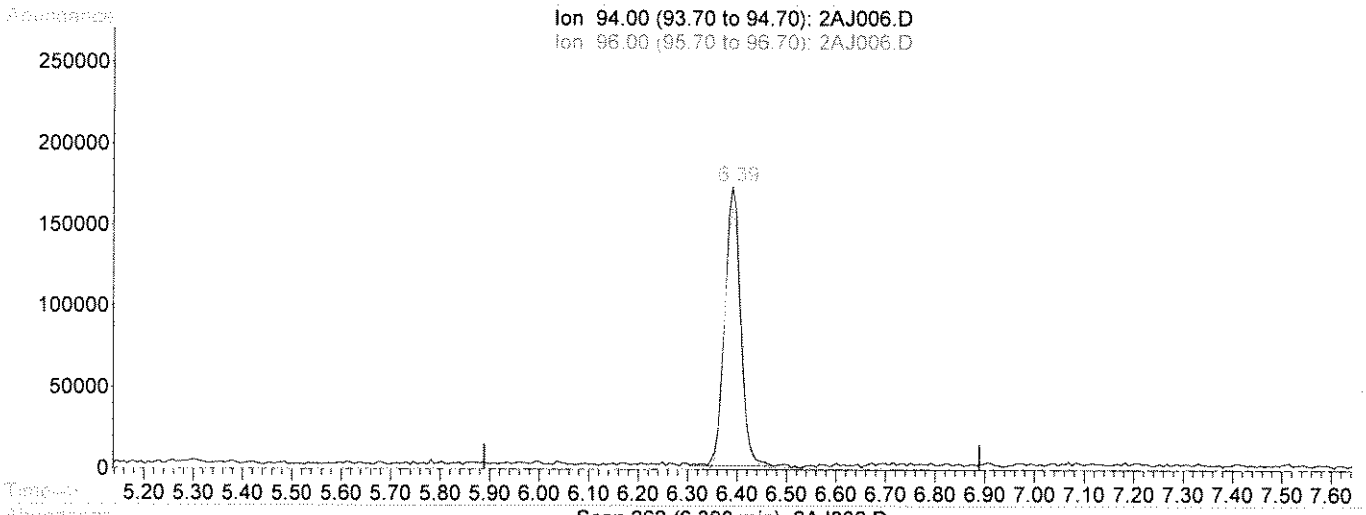
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration

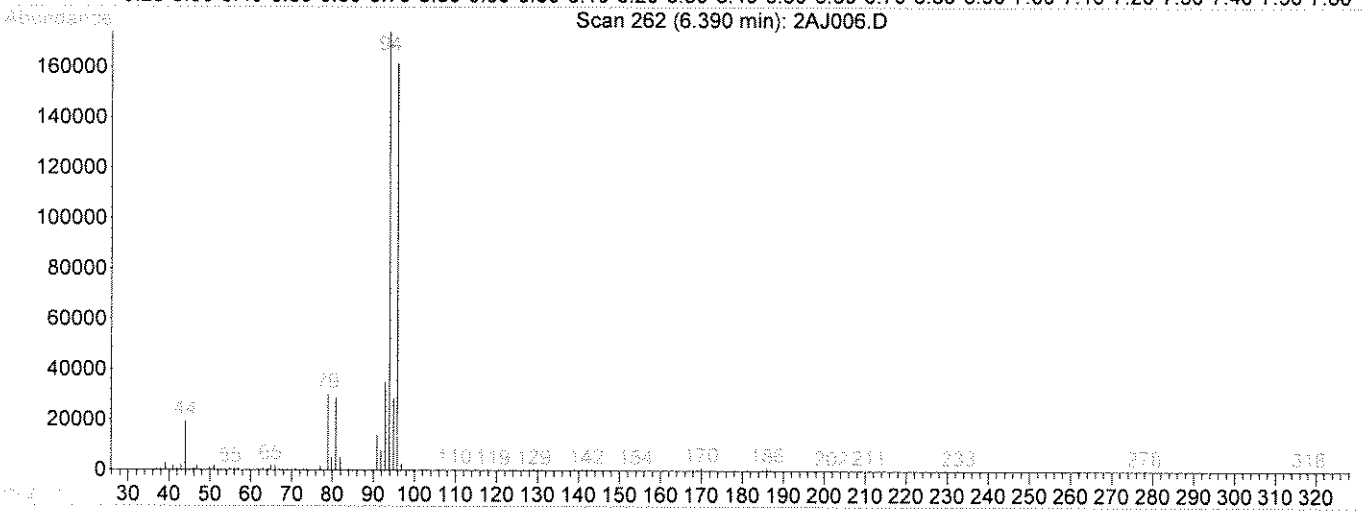


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:19 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:28:37 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(5) Bromomethane

6.39min 32.43ug/L

response 385362

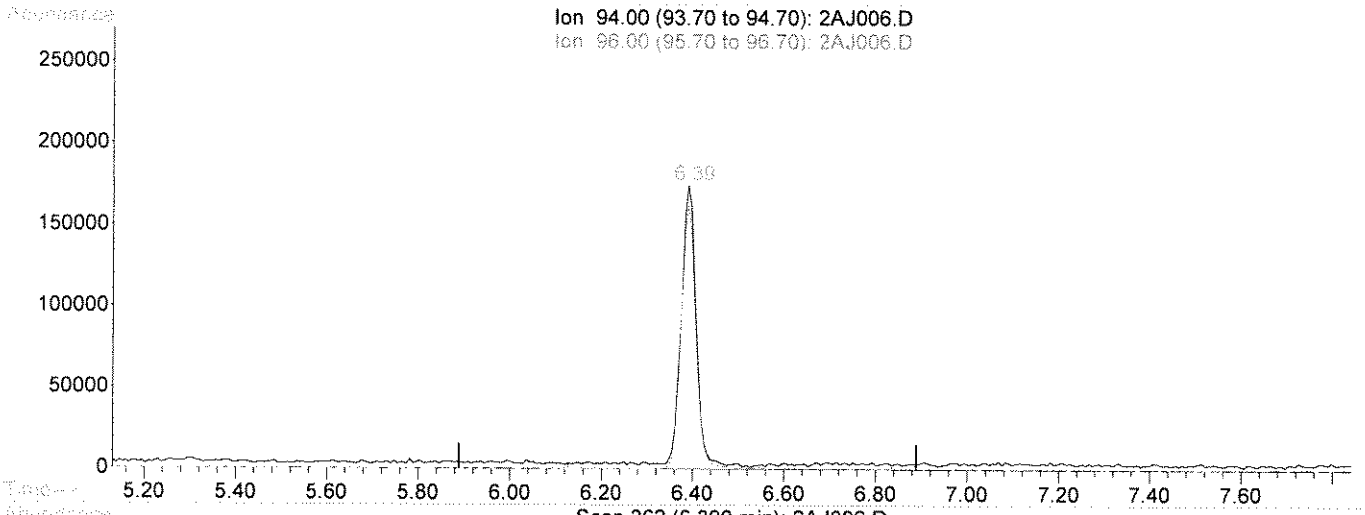
Ion	Exp%	Act%
94.00	100	100
96.00	95.00	95.12
78.90	18.20	16.98
0.00	0.00	0.00

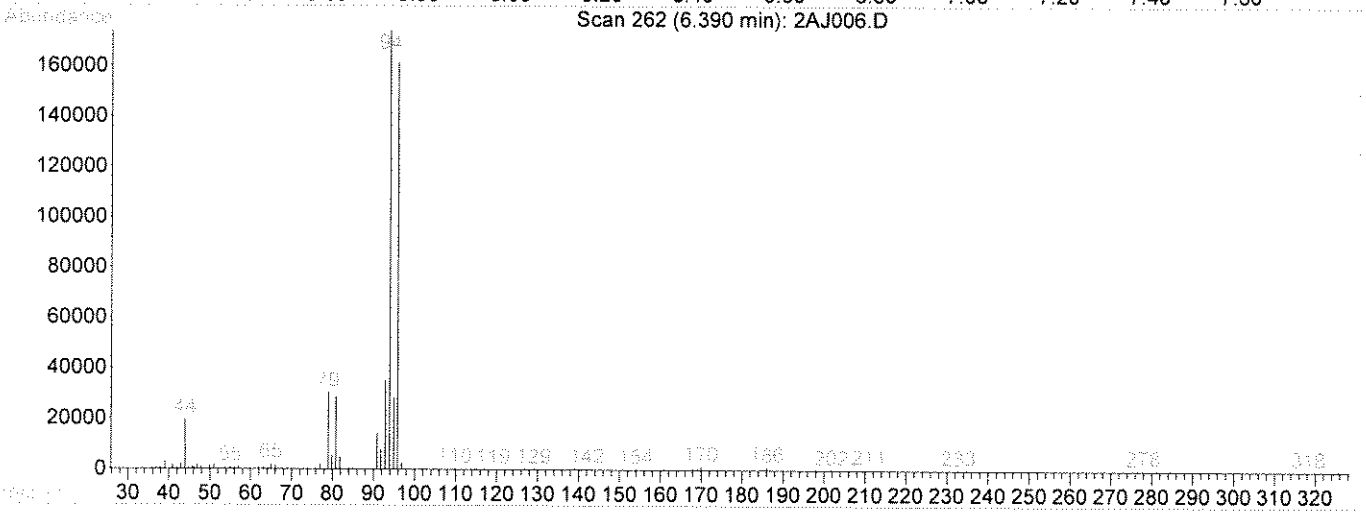
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 1/16/13
Review by/Date: 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(5) Bromomethane

6.39min 43.26ug/L m

response 514066

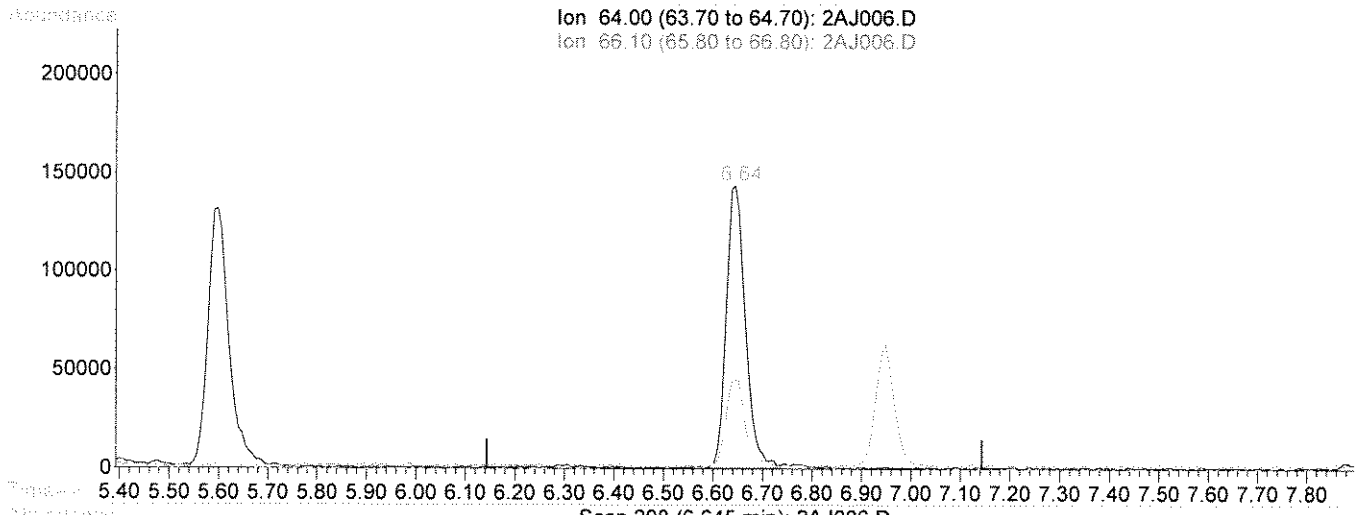
Ion	Exp%	Act%
94.00	100	100
96.00	95.00	71.31
78.90	18.20	12.73
0.00	0.00	0.00

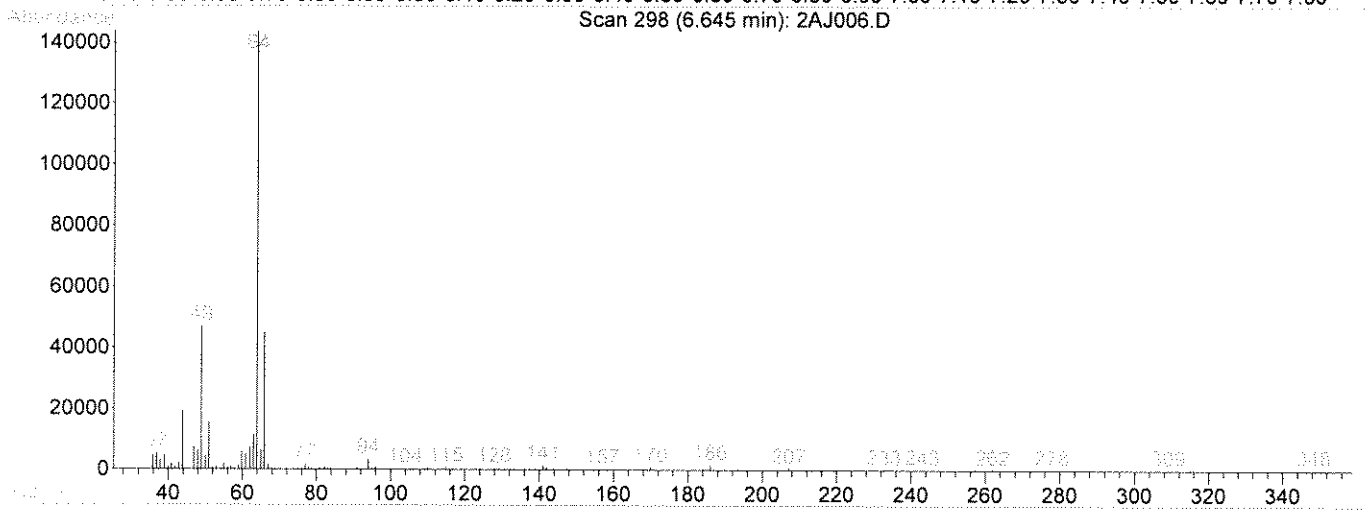
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date VK 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:29 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:28:37 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(6) Chloroethane

6.64min 25.32ug/L

response 381489

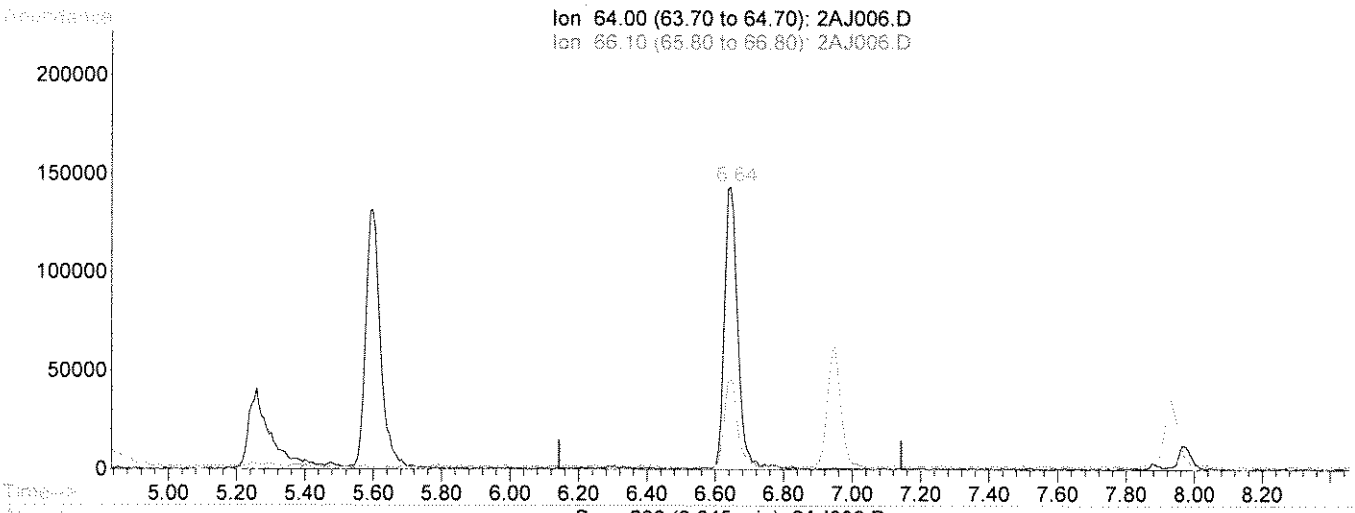
Ion	Exp%	Act%
64.00	100	100
66.10	32.50	32.85
49.00	32.50	30.54
0.00	0.00	0.00

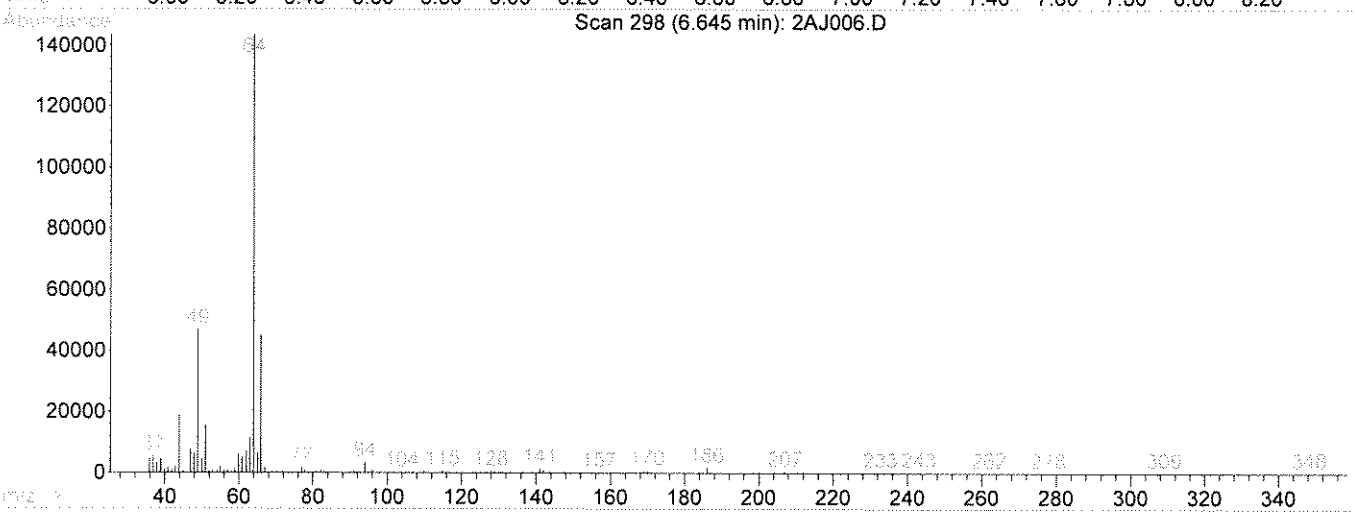
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LK 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(6) Chloroethane

6.64min 29.55ug/L m

response 445180

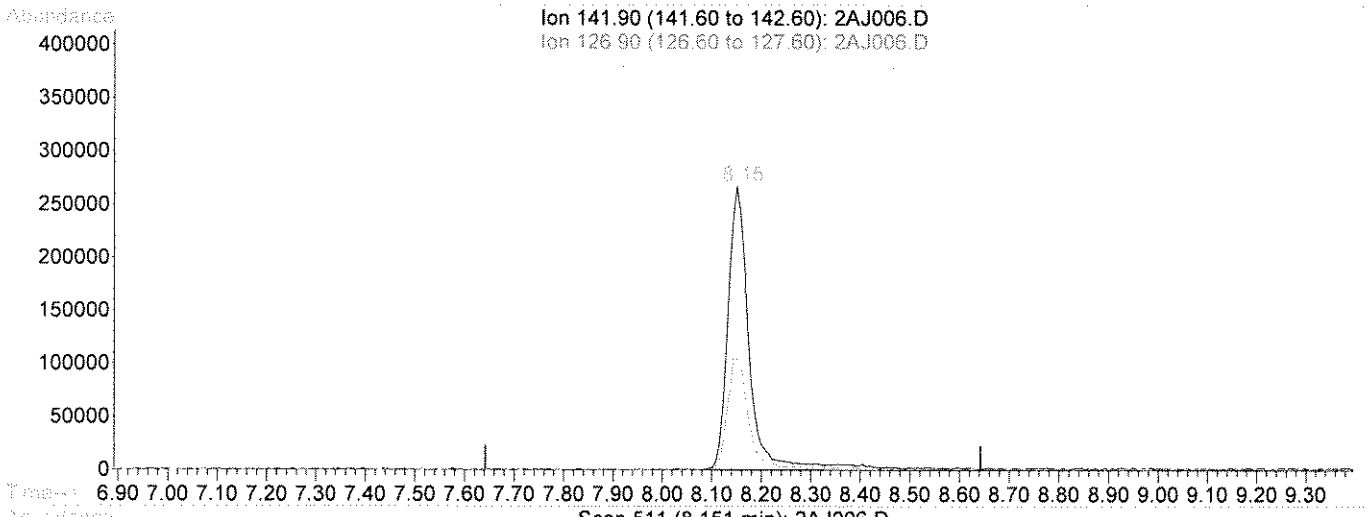
Ion	Exp%	Act%
64.00	100	100
66.10	32.50	28.15
49.00	32.50	26.17
0.00	0.00	0.00

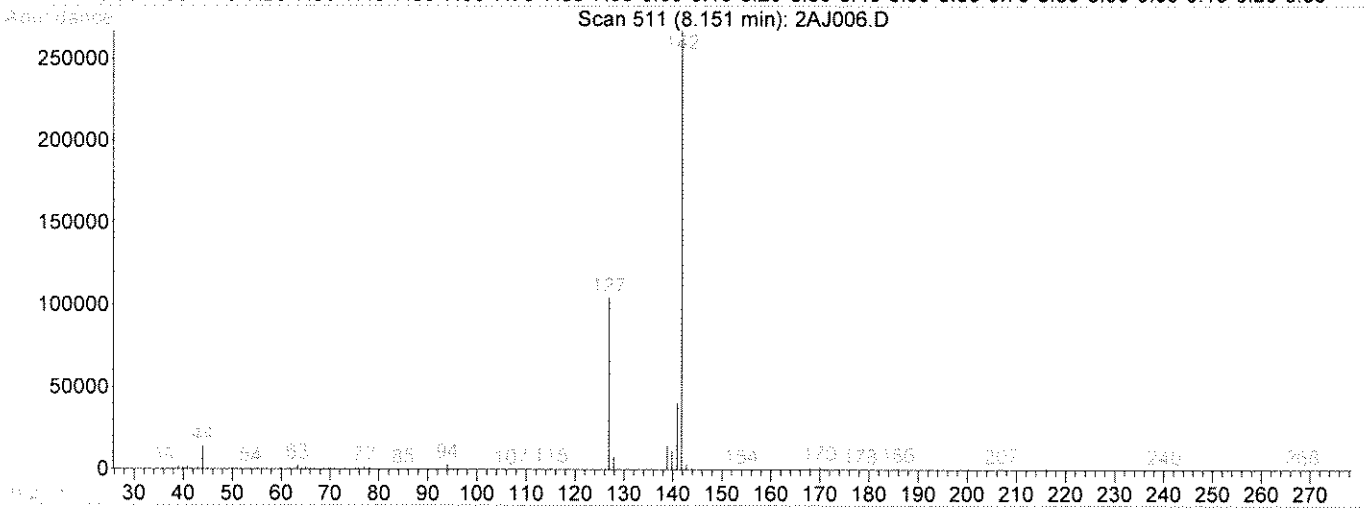
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date VG 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:29 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:34:00 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(14) Iodomethane

8.15min 44.73ug/L

response 767317

Ion	Exp%	Act%
141.90	100	100
126.90	50.50	40.34
140.90	14.40	13.88
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

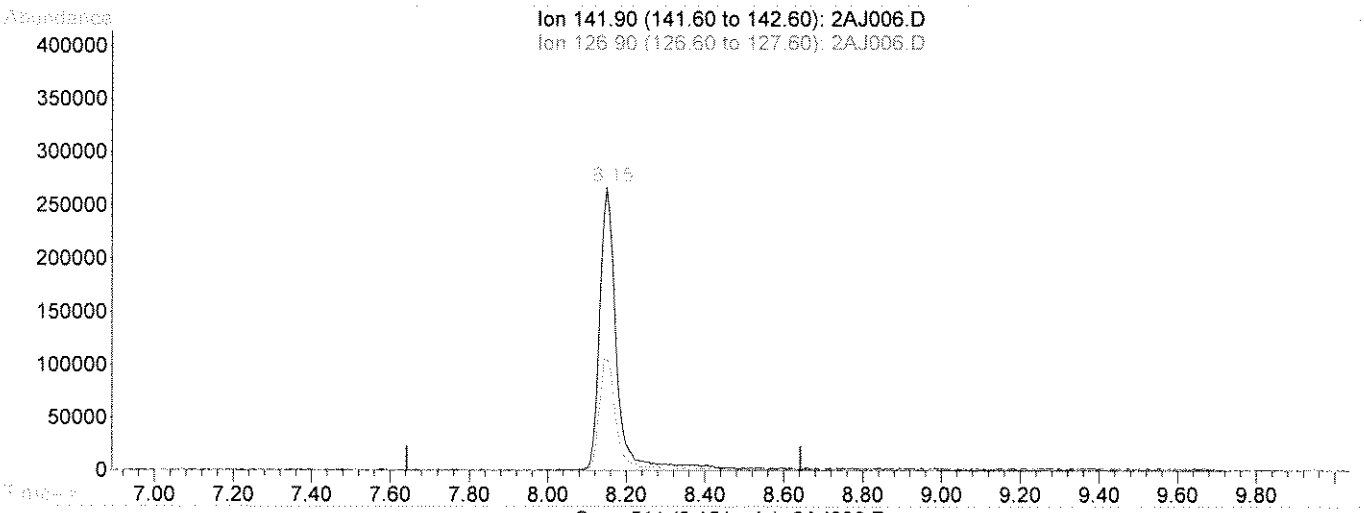
Review by/Date LGT 1/16/13

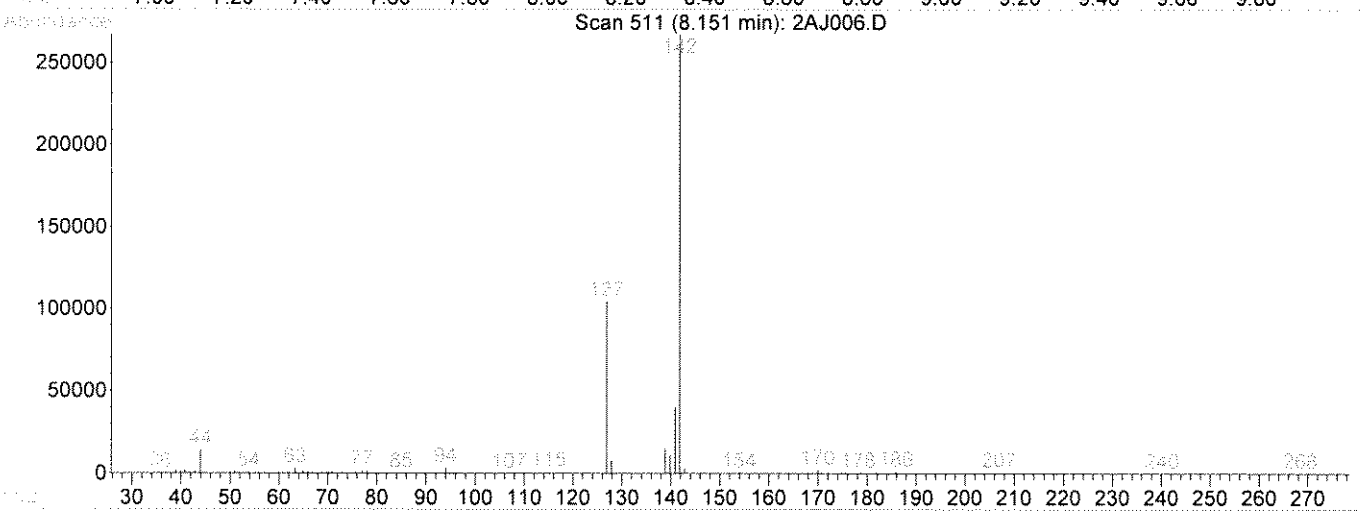
Review by/Date: JCB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(14) Iodomethane

8.15min 50.83ug/L m

response 872021

Ion	Exp%	Act%
141.90	100	100
126.90	50.50	35.50
140.90	14.40	12.21
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[✓] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

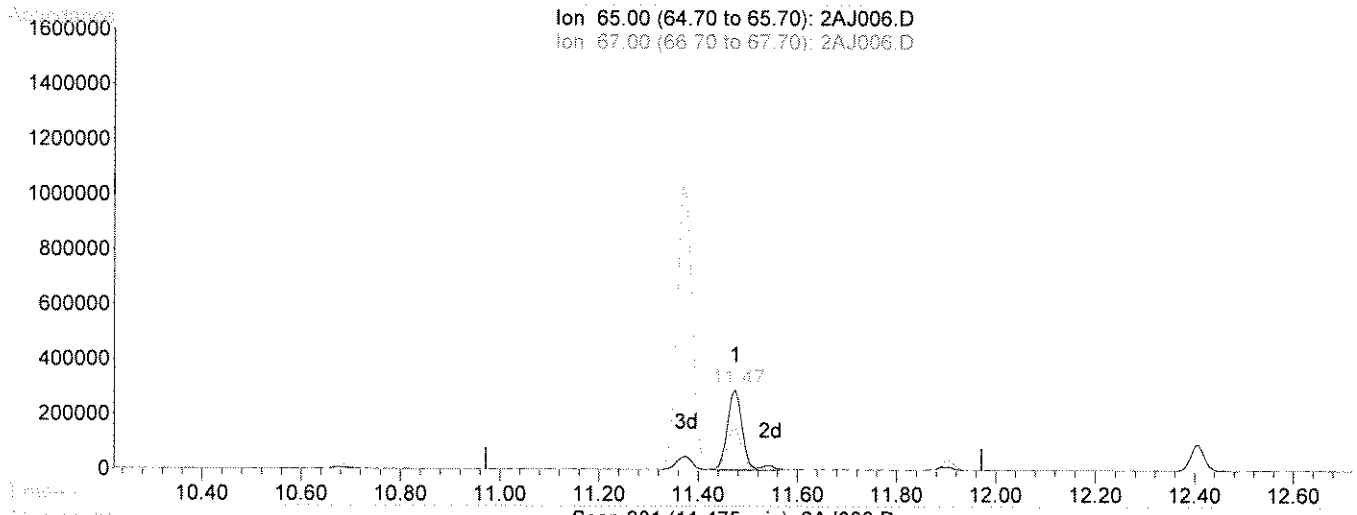
Review by/Date LG 1/16/13

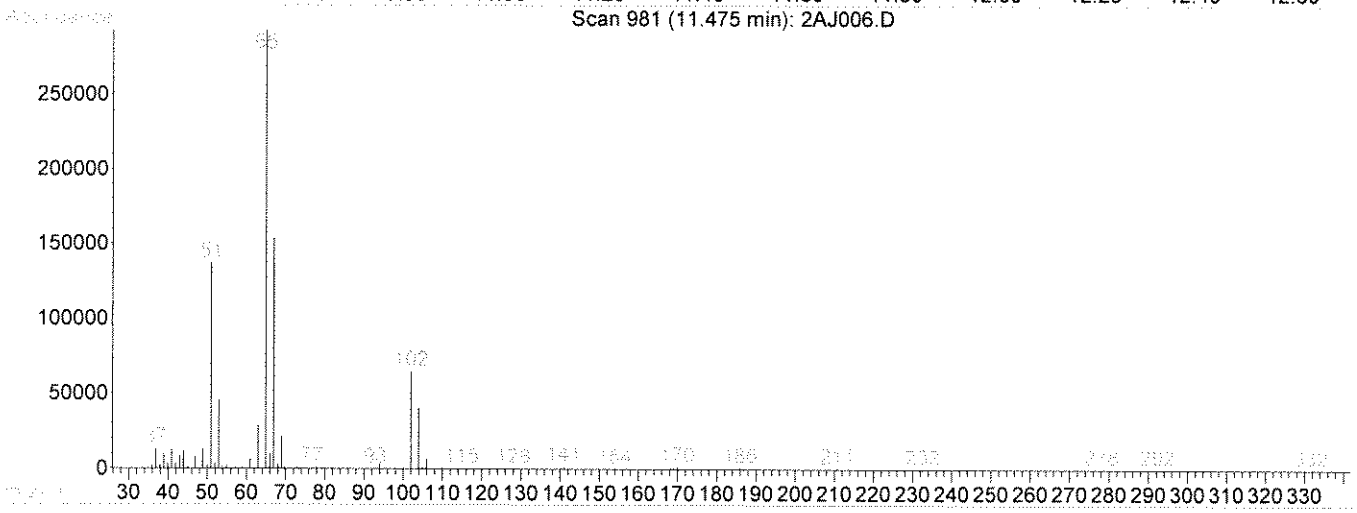
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 9:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:18:14 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(44) 1,2-Dichloroethane-d4 (s)

11.47min 28.96ug/l

response 599902

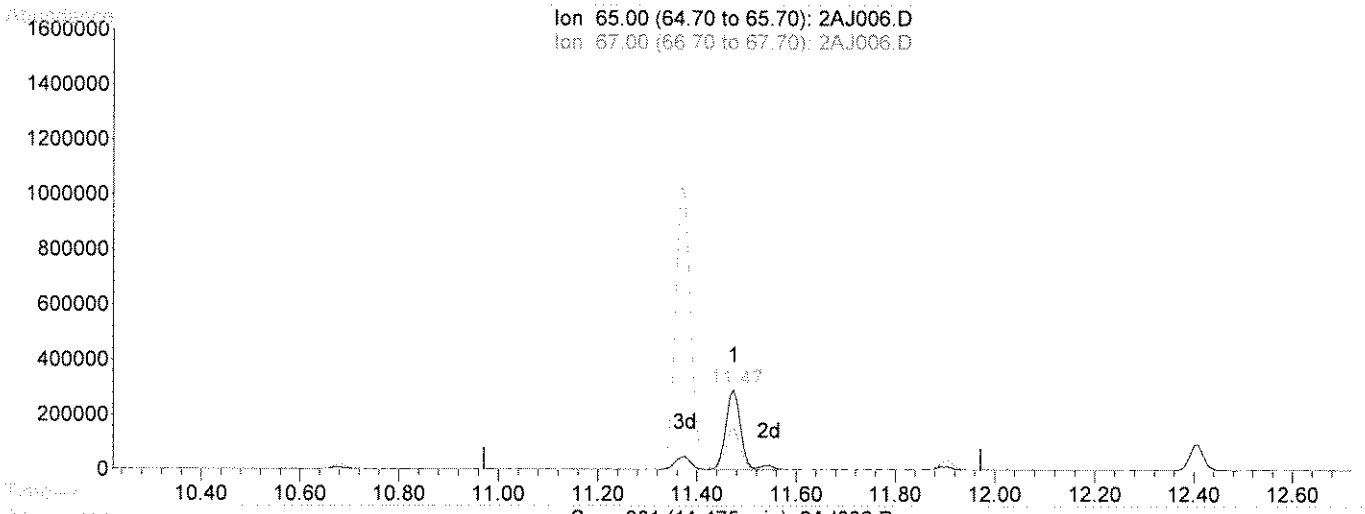
Ion	Exp%	Act%
65.00	100	100
67.00	55.40	52.59
102.00	18.70	22.61#
0.00	0.00	0.00

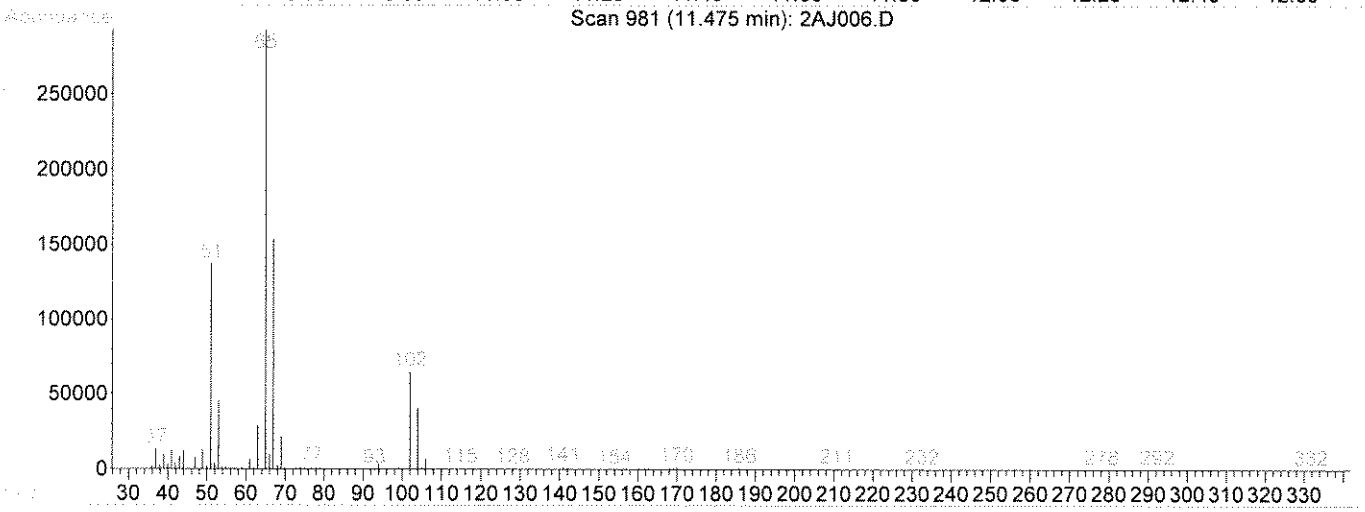
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(44) 1,2-Dichloroethane-d4 (s)

11.47min 31.19ug/l m

response 646084

Ion	Exp%	Act%
65.00	100	100
67.00	55.40	48.83
102.00	18.70	21.00
0.00	0.00	0.00

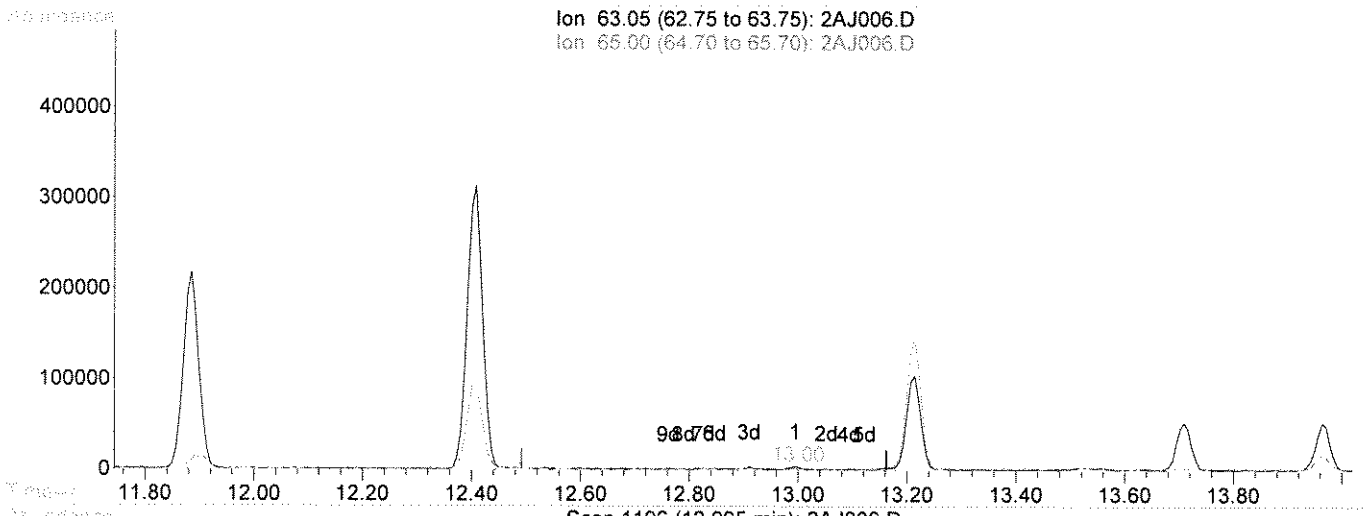
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date LG 1/16/13
Review by/Date: KA 1-17-13

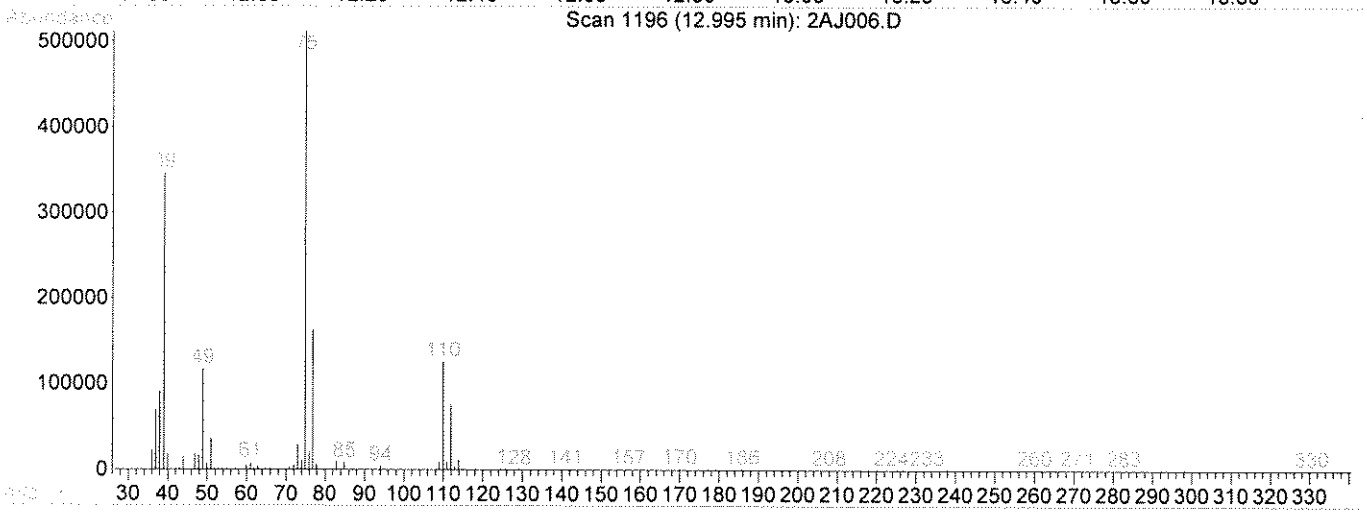
2AJ006.D W1301050.M Wed Jan 16 13:43:13 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:34 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:40:00 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(53) 2-Chloroethyl vinyl ether

13.00min 34.38ug/L

response 6769

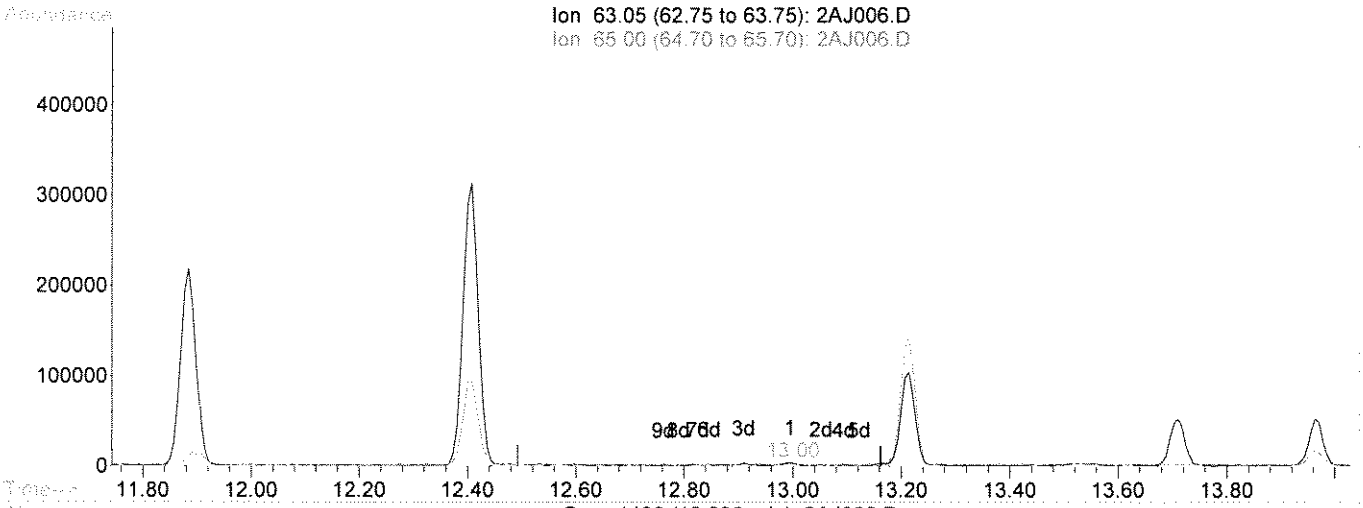
Ion	Exp%	Act%
63.05	100	100
65.00	20.00	22.31
106.05	20.90	2.59
0.00	0.00	0.00

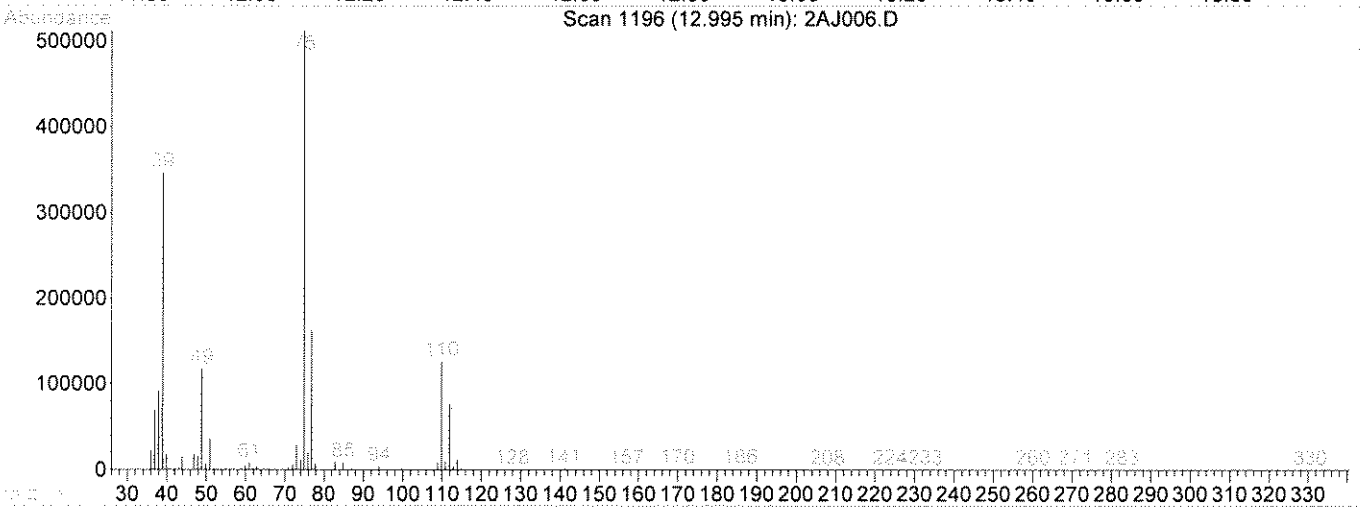
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT 1/16/13
Final Review/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ006.D Vial: 6
Acq On : 15 Jan 2013 16:08 Operator: kat
Sample : aa22782-cal4 Inst : OVGCMS2
Misc : cal 50 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ006.D

(53) 2-Chloroethyl vinyl ether

13.00min 49.98ug/L m

response 9839

Ion	Exp%	Act%
63.05	100	100
65.00	20.00	15.35
106.05	20.90	1.78
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KJ 1-17-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:49 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1226866	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1885250	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1630693	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	801552	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	1534861	91.23 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 182.46%#		
44) 1,2-Dichloroethane-d4	11.48	65	1553341	78.52 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 157.04%		
56) D8-Toluene	13.17	98	4442428	102.47 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 204.94%#		
77) Bromofluorobenzene	15.68	95	1789476	92.91 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 185.82%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	2132389	128.28 ug/L	99
3) Chloromethane	5.36	50	2549422	127.40 ug/L	99
4) Vinyl Chloride	5.60	62	2555078	118.15 ug/L	98
5) Bromomethane	6.39	94	905216m	77.51 ug/L	97
6) Chloroethane	6.64	64	769475m	51.97 ug/L	99
7) Trichlorofluoromethane	6.94	101	2116784	72.63 ug/L	96
8) Trichlorotrifluoroethane	7.93	101	935665	50.92 ug/L	90
9) acrolein	8.43	56	1466738	4565.01 ug/L	98
10) Acetone	8.86	43	515869	99.58 ug/L	91
11) 1,1-Dichloroethene	7.89	96	721975	47.27 ug/L	79
12) 3-Chloropropene	8.63	76	900250	118.27 ug/L	76
13) Acetonitrile	9.51	41	1993976	1105.45 ug/L	97
14) Iodomethane	8.15	142	2076151	123.15 ug/L	88
15) Carbon disulfide	7.97	76	3745281	68.67 ug/L	99
16) Methylene Chloride	8.78	84	1341517	90.88 ug/L	94
17) Methyl tert-butyl ether	9.13	73	2971341	80.68 ug/L	97
18) Acrylonitrile	9.88	53	4291819	1040.57 ug/L	95
19) T-1,2-Dichloroethene	9.01	96	1309084	99.78 ug/L	94
20) Isopropyl Ether	9.59	45	5289112	78.92 ug/L	94
21) C-1,2-Dichloroethene	10.44	96	1338589	91.41 ug/L	98
22) 1,1-Dichloroethane	9.81	63	2417843	79.98 ug/L	99
23) Vinyl Acetate	10.05	43	4462090	83.94 ug/L	99
24) Chloroprene	9.78	53	2438556	85.15 ug/L	79
25) 2-Butanone	11.02	72	138442	121.06 ug/L	87
26) Propionitrile	11.36	54	1482089	836.04 ug/L	100
27) 2,2-Dichloropropane	10.56	77	1779850	69.37 ug/L	99
28) Methacrylonitrile	11.38	67	3957073	817.14 ug/L #	46
29) Chloroform	10.70	83	2096761	71.21 ug/L	90
31) Dibromofluoromethane	10.90	113	1534861	91.23 ug/L	100
32) Bromochloromethane	10.66	128	679726	92.81 ug/L	80
33) 1,1,1-Trichloroethane	10.97	97	1660354	68.59 ug/L #	97
34) 1,1-Dichloropropene	11.08	75	1723086	81.48 ug/L	92
35) Diethyl ether	7.53	59	791369	47.25 ug/l	93
36) Methyl Acetate	9.00	74	176360	102.45 ug/l #	66
37) Cyclohexane	10.68	56	2319433	91.39 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:49 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	1887399	91.22 ug/l #	84
40) Carbon Tetrachloride	10.90	117	1453337	70.32 ug/L	96
41) 1,2-Dichloroethane	11.54	62	1639913	68.49 ug/L	99
42) Benzene	11.34	78	4174258	80.07 ug/L #	58
43) Isobutyl Alcohol	11.40	43	2243399	1598.77 ug/L #	1
45) 1,2-Dichloroethane-d4	11.48	65	1553341	78.52 ug/l	94
46) Trichloroethene	11.89	130	1286282	95.29 ug/L #	85
47) 1,2-Dichloropropane	12.41	63	1312983	89.61 ug/L	85
48) Methyl Methacrylate	12.49	100	388624	128.65 ug/L #	1
49) 1,4-Dioxane	12.61	88	272134	2445.32 ug/L #	82
50) Bromodichloromethane	12.43	83	1601267	78.93 ug/L #	100
51) Dibromomethane	12.32	93	801841	82.13 ug/L	89
52) 4-Methyl-2-Pentanone	13.49	100	178173	131.15 ug/L	78
53) 2-Chloroethyl vinyl ether	13.00	63	19186m	102.05 ug/L	72
54) 2-Hexanone	14.20	43	1160512	110.70 ug/L	94
55) C-1,3-Dichloropropene	13.00	75	2151694	89.17 ug/L	75
57) D8-Toluene	13.17	98	4442428	102.47 ug/L	97
59) Toluene	13.21	92	2830633	93.99 ug/L	95
60) Ethyl Methacrylate	13.60	69	1710510	110.17 ug/L #	69
61) T-1,3-Dichloropropene	13.55	75	1704196	80.01 ug/L	74
62) 1,1,2-Trichloroethane	13.71	97	972541	94.13 ug/L	97
63) 1,3-Dichloropropane	13.96	76	1796078	88.49 ug/L	99
64) Tetrachloroethene	13.57	164	957104	97.29 ug/L	92
65) Dibromochloromethane	13.89	129	1353340	92.93 ug/L	97
66) 1,2-Dibromoethane	14.15	107	1129250	95.90 ug/L	92
67) Chlorobenzene	14.58	112	3198318	102.87 ug/L	93
68) 1,1,1,2-Tetrachloroethane	14.61	131	1211057	91.43 ug/L	90
69) Ethylbenzene	14.54	106	1599469	96.52 ug/L	91
70) m-xylene & p-xylene	14.66	106	3859392	190.56 ug/L	75
71) O-Xylene	15.07	106	2067364	109.35 ug/L	91
72) Bromoform	15.22	173	870907	93.41 ug/L	92
73) Styrene	15.11	104	3470258	94.95 ug/L	90
74) Isopropylbenzene	15.34	105	5147000	100.77 ug/L	97
75) 1,2,3-Trichloropropane	16.00	75	1551537	89.47 ug/L	98
76) 1,1,2,2-Tetrachloroethane	15.81	83	1278696	85.20 ug/L	96
78) Bromofluorobenzene	15.68	95	1789476	92.91 ug/L #	70
79) T-1,4-dichloro-2-butene	15.99	53	477197	88.54 ug/L	91
80) N-Propylbenzene	15.75	91	6104088	98.37 ug/L	92
81) Pentachloroethane	16.37	167	949176	112.27 ug/l	95
83) Bromobenzene	15.83	156	1370810	88.86 ug/L	80
84) 1,3,5-Trimethylbenzene	15.90	105	4010598	82.71 ug/L	87
85) 2-Chlorotoluene	15.97	91	3705283	88.16 ug/L	92
86) 4-Chlorotoluene	16.14	91	3744914	90.56 ug/L	88
87) 1,2,4-Trimethylbenzene	16.34	105	3914344	79.51 ug/L	92
88) s-Butylbenzene	16.47	105	5536117	98.50 ug/L	92
89) tert-Butylbenzene	16.28	119	3691180	97.89 ug/L	93
90) p-Isopropyltoluene	16.59	119	4180625	88.33 ug/L	96
91) 1,3-Dichlorobenzene	16.82	146	2580786	102.11 ug/L	92
92) 1,4-Dichlorobenzene	16.91	146	2491546	89.36 ug/L	92
93) 1,2-Dichlorobenzene	17.47	146	2423386	102.30 ug/L	96
94) N-Butylbenzene	17.10	91	4038315	80.60 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:49 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.62	75	206360	70.88 ug/L	83
96) Naphthalene	20.52	128	3107172	90.70 ug/L	100
97) 1,2,4-Trichlorobenzene	19.81	180	1483422	95.06 ug/L	91
98) Hexachlorobutadiene	19.64	225	709436	90.16 ug/L	99
99) 1,2,3-Trichlorobenzene	20.94	180	1323080	91.00 ug/L	93

(#) = qualifier out of range (m) = manual integration

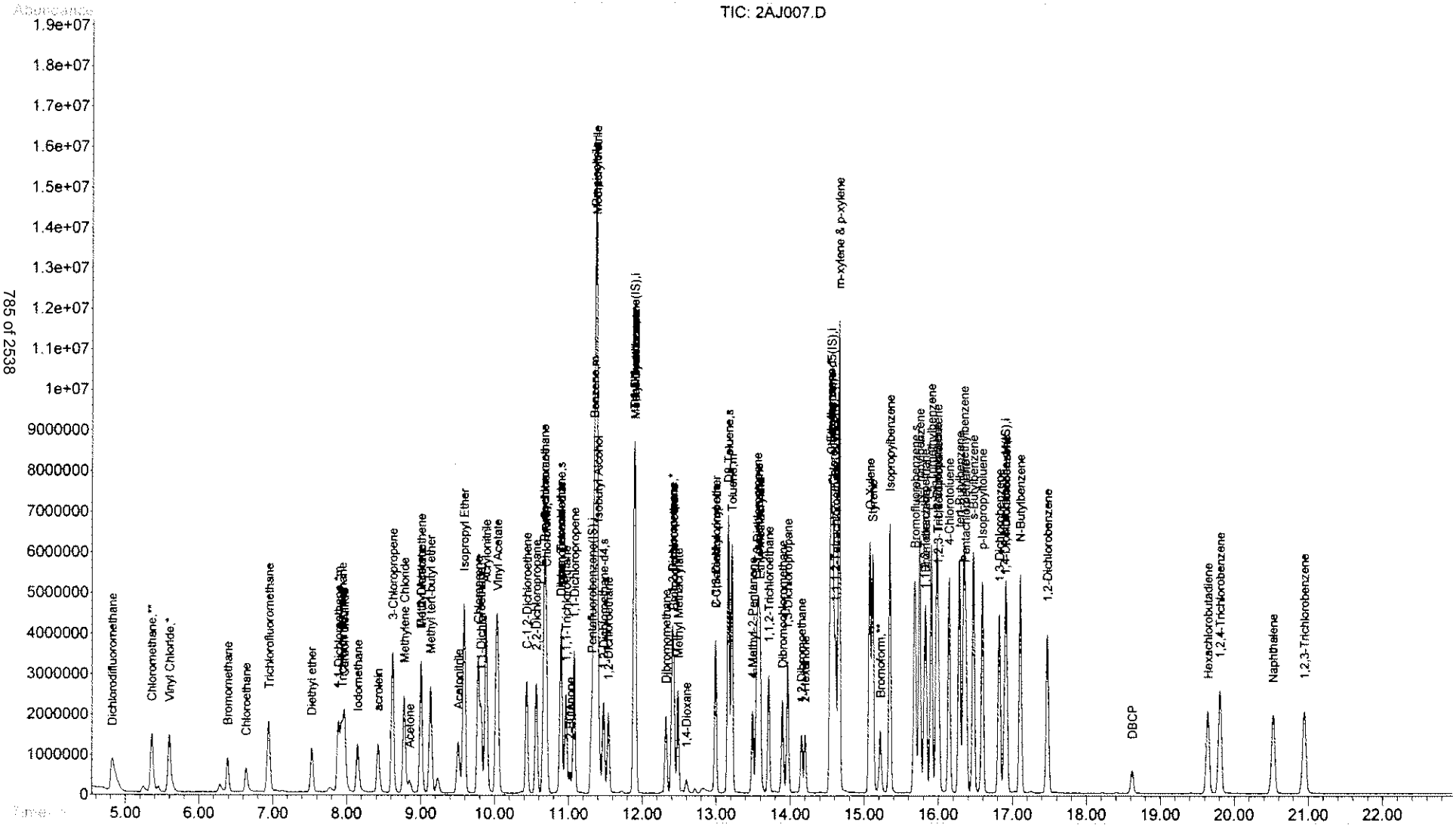
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D
Acq On : 15 Jan 2013 16:39
Sample : aa22782-cal5
Misc : cal 100 1ppb
MS Integration Params: rteint.p
Quant Time: Jan 16 12:49 2013

Vial: 7
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: W1301050.RES

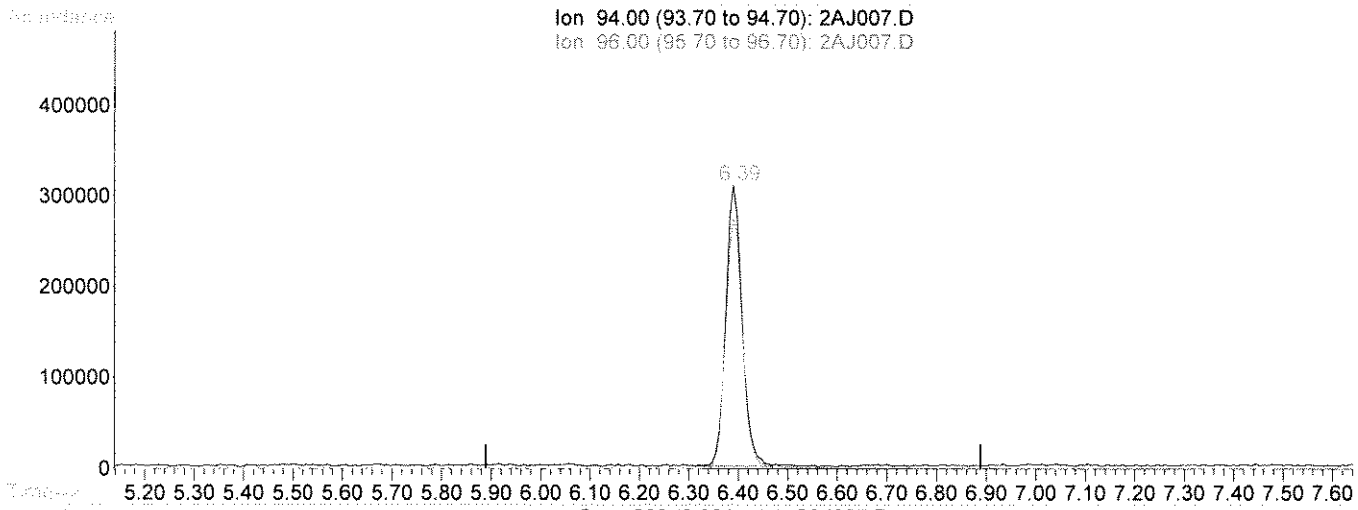
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration

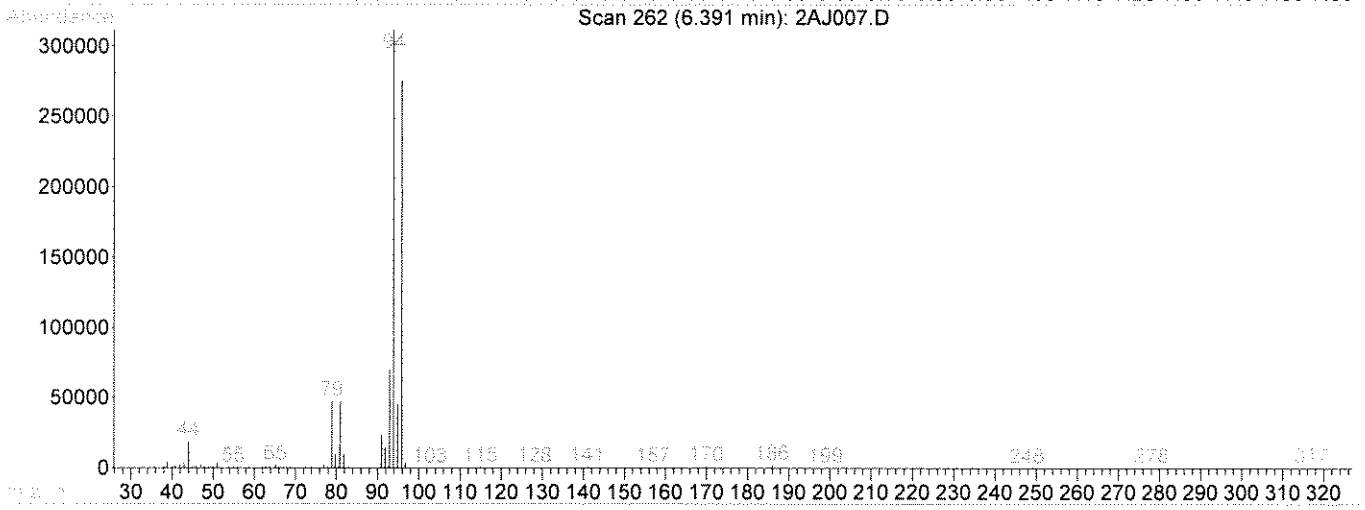


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 9:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:27:12 2013
Response via : Multiple Level Calibration





TIC: 2AJ007.D

(5) Bromomethane

6.39min 59.85ug/L

response 698966

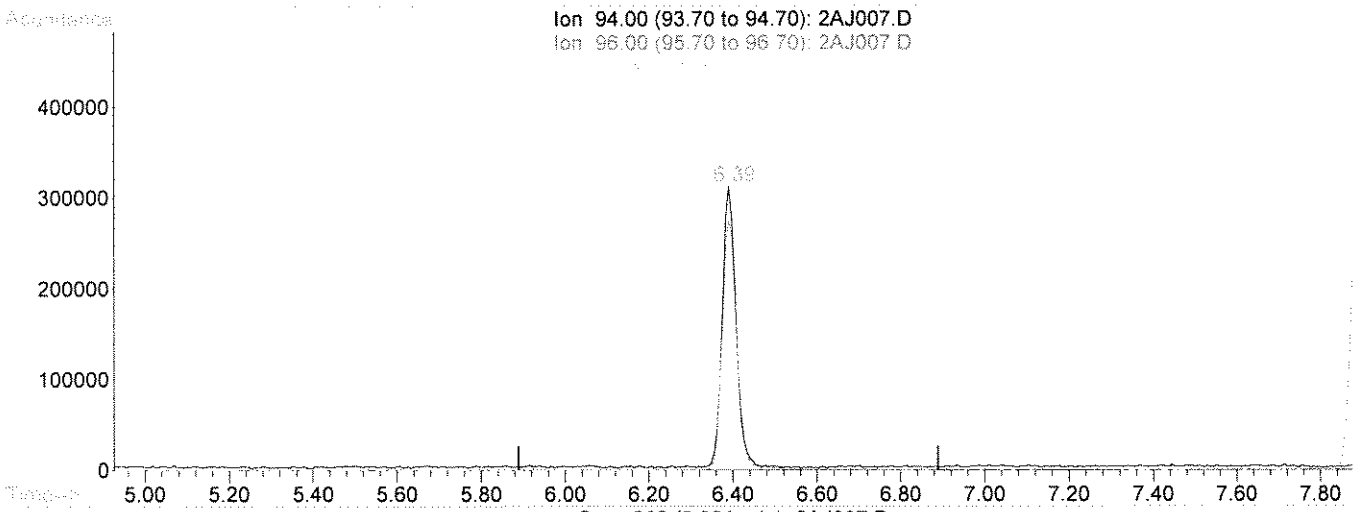
Ion	Exp%	Act%
94.00	100	100
96.00	95.00	92.62
78.90	18.20	16.15
0.00	0.00	0.00

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: LG 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:49 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration



(5) Bromomethane

6.39min 77.51ug/L m

response 905216

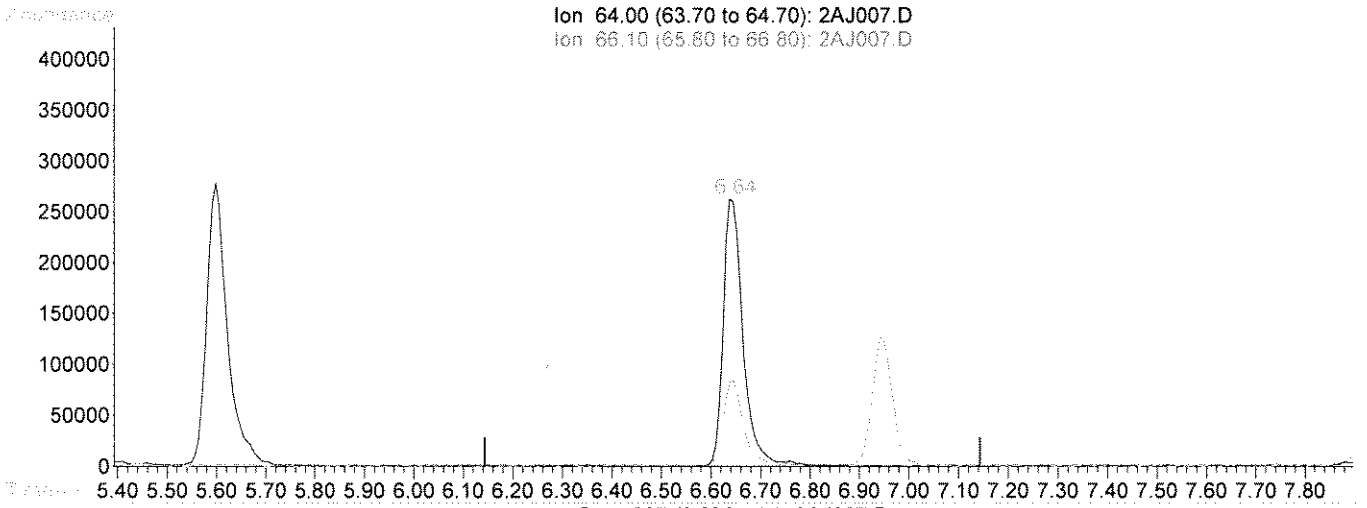
Ion	Exp%	Act%
94.00	100	100
96.00	95.00	71.52
78.90	18.20	12.47
0.00	0.00	0.00

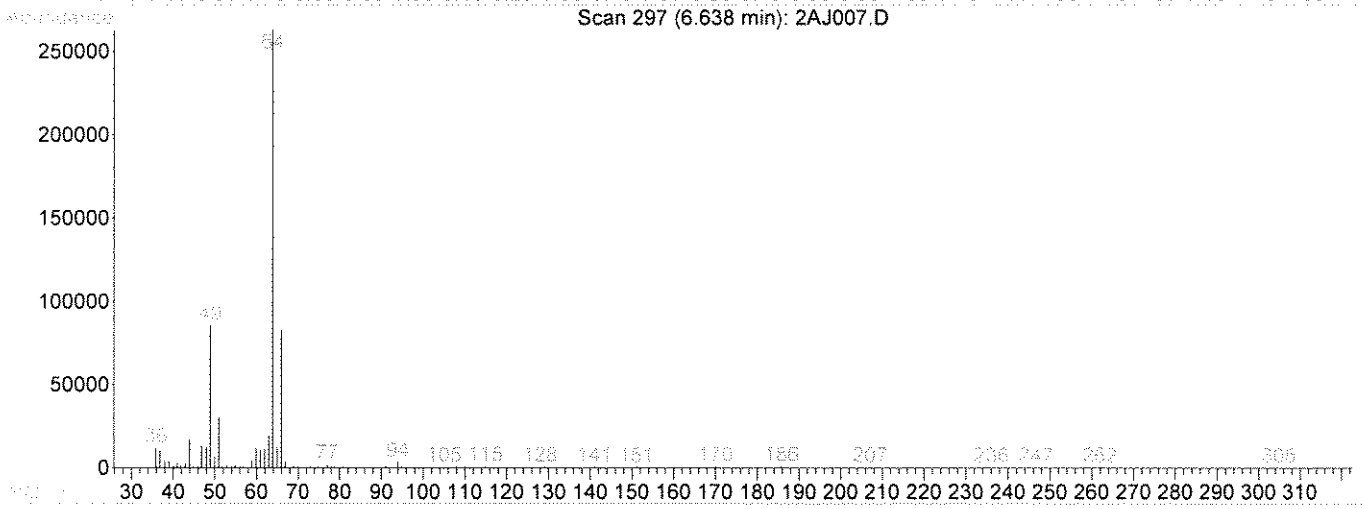
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KS 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:28 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:27:12 2013
Response via : Multiple Level Calibration





TIC: 2AJ007.D

(6) Chloroethane

6.64min 48.49ug/L

response 717902

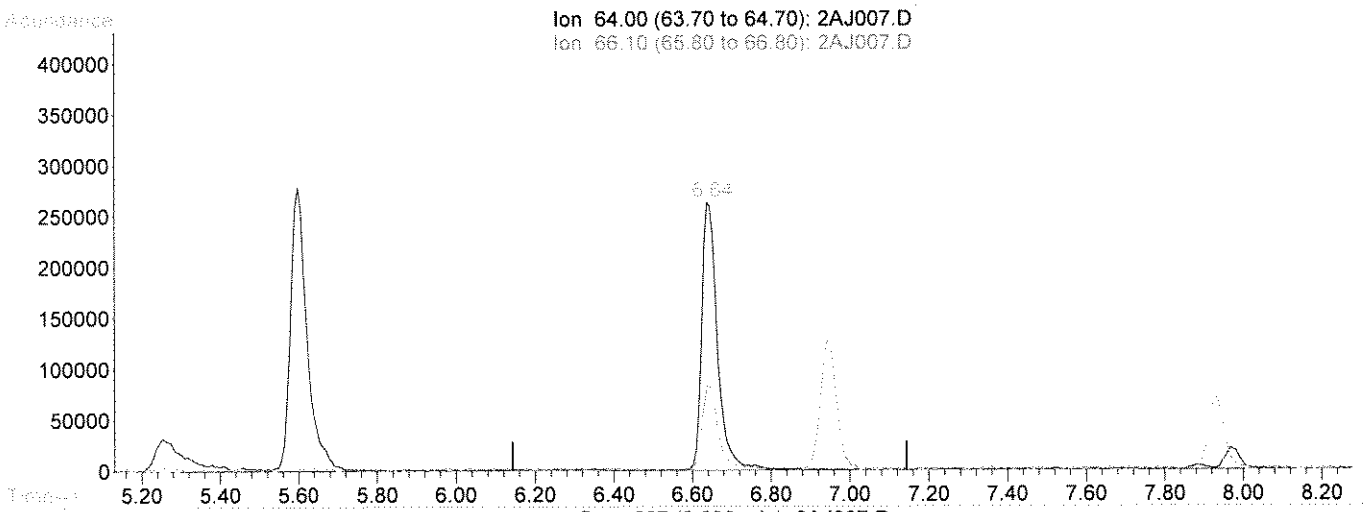
Ion	Exp%	Act%
64.00	100	100
66.10	32.50	32.54
49.00	32.50	31.92
0.00	0.00	0.00

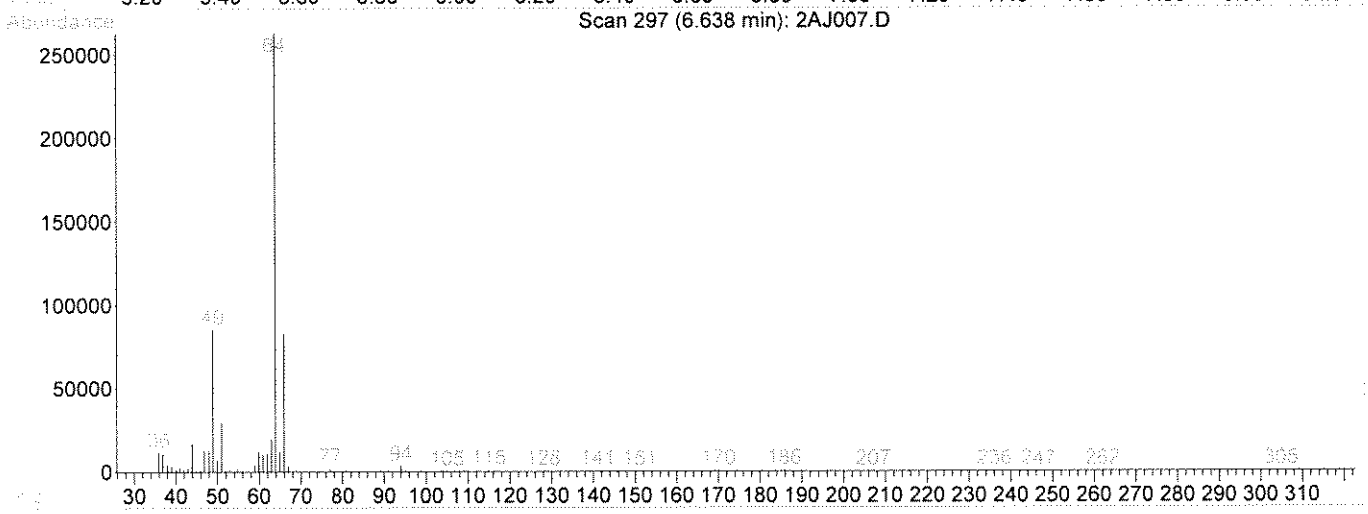
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 1/16/13
Review by/Date: 1/17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:49 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





(6) Chloroethane

6.64min 51.97ug/L m

response 769475

Ion	Exp%	Act%
64.00	100	100
66.10	32.50	30.36
49.00	32.50	29.78
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[✓] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

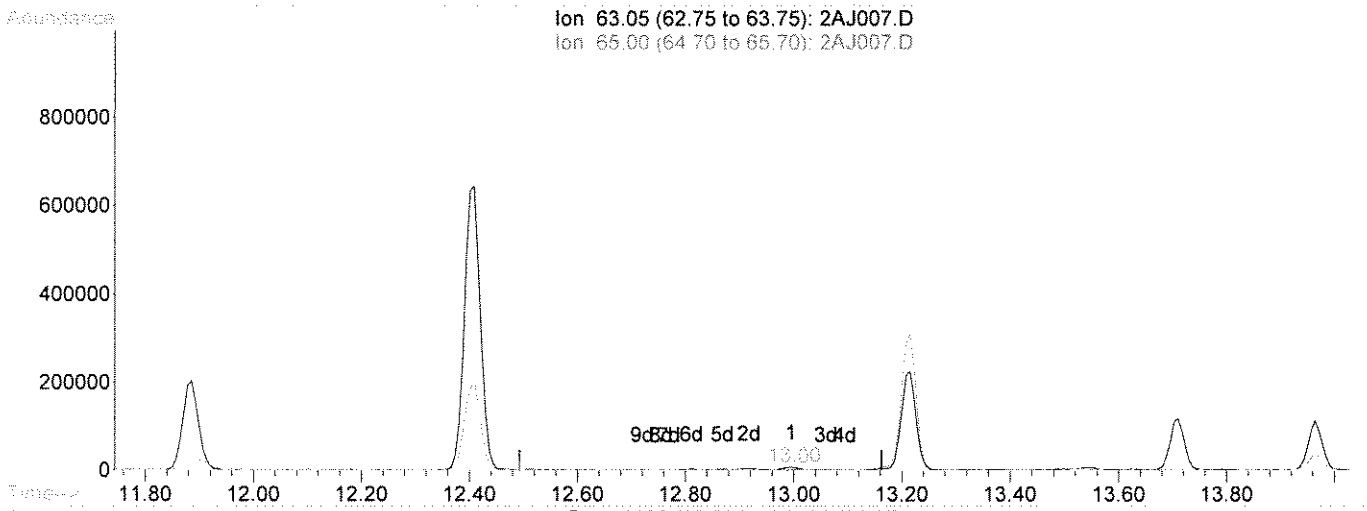
Review by/Date LG 1/16/13

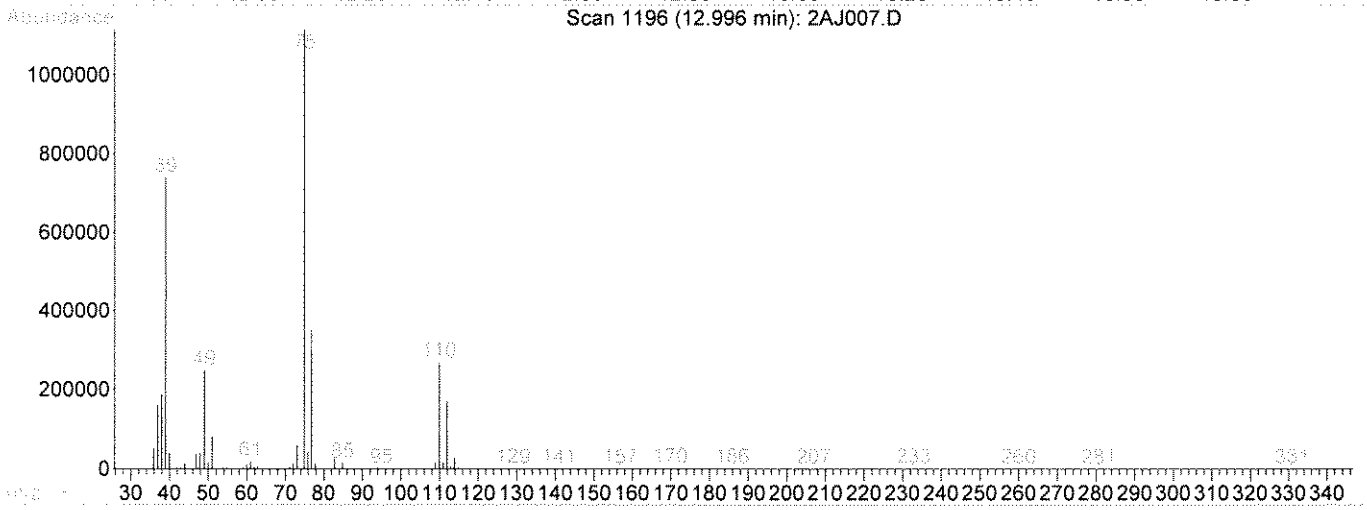
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:28 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:40:00 2013
Response via : Multiple Level Calibration





TIC: 2AJ007.D

(53) 2-Chloroethyl vinyl ether

13.00min 68.59ug/L

response 12895

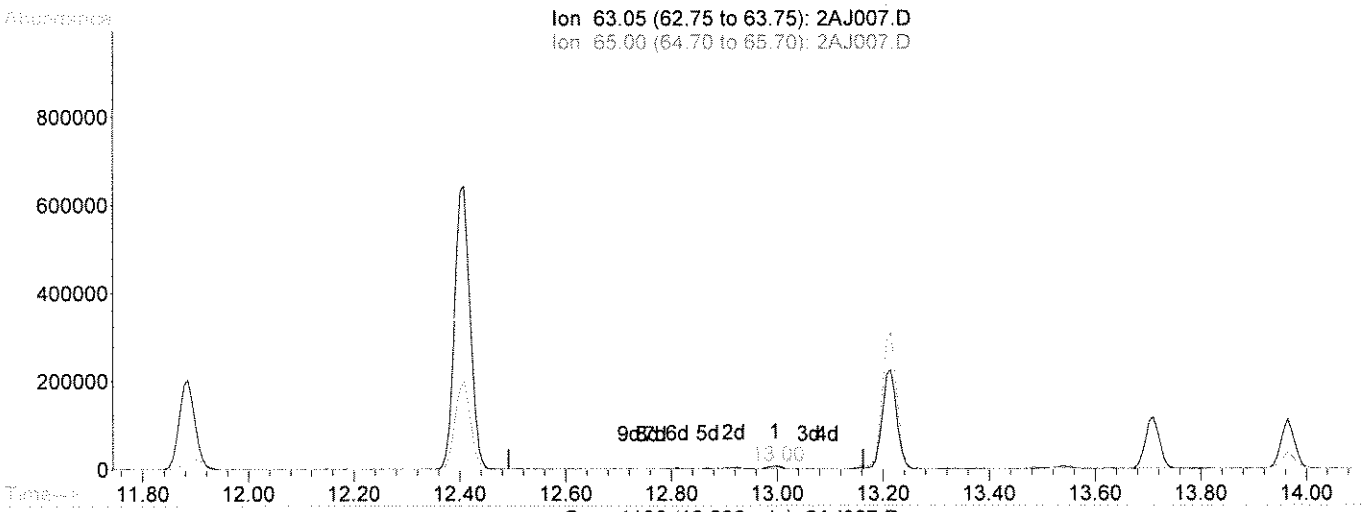
Ion	Exp%	Act%
63.05	100	100
65.00	20.00	13.54
106.05	20.90	1.91
0.00	0.00	0.00

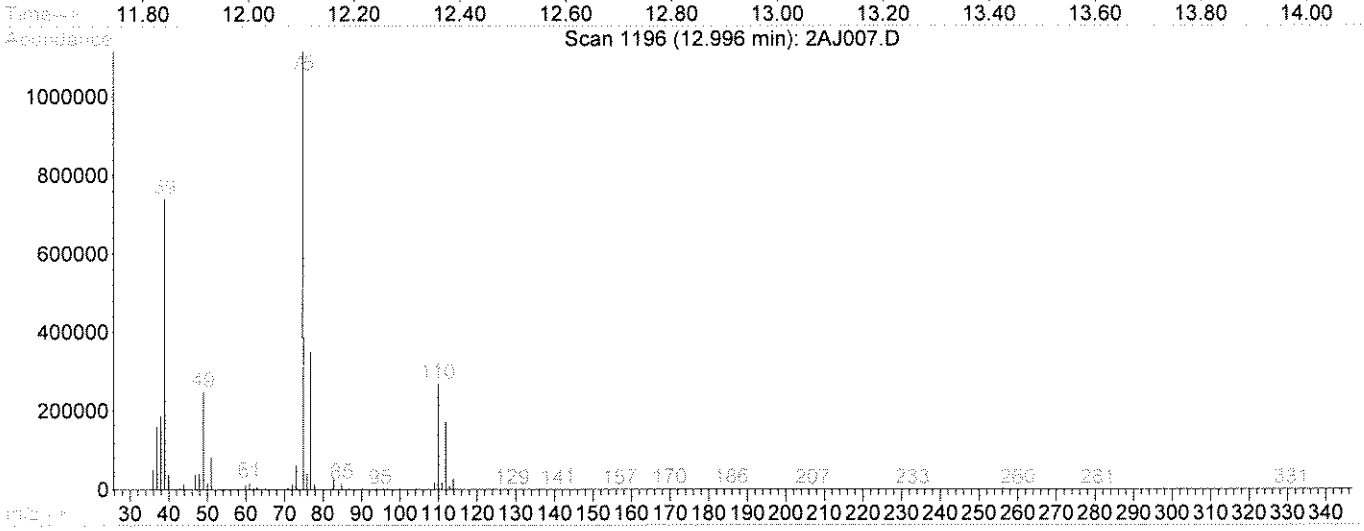
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ007.D Vial: 7
Acq On : 15 Jan 2013 16:39 Operator: kat
Sample : aa22782-cal5 Inst : OVGCMS2
Misc : cal 100 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:49 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ007.D

(53) 2-Chloroethyl vinyl ether

13.00min 102.05ug/L m

response 19186

Ion	Exp%	Act%
63.05	100	100
65.00	20.00	9.10
106.05	20.90	1.28
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: lt 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:51 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LET 1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1220239	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1737985	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1550528	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	766450	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	3056683	182.68 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 365.36%#		
44) 1,2-Dichloroethane-d4	11.47	65	3283950	180.07 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 360.14%#		
56) D8-Toluene	13.16	98	8433185	211.00 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 422.00%#		
77) Bromofluorobenzene	15.68	95	3737705	204.10 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 408.20%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	3853256	233.06 ug/L	100
3) Chloromethane	5.36	50	4574573	229.84 ug/L	98
4) Vinyl Chloride	5.60	62	4453130	207.04 ug/L	97
5) Bromomethane	6.39	94	1030271	88.70 ug/L	99
6) Chloroethane	6.63	64	632075	42.93 ug/L	95
7) Trichlorofluoromethane	6.91	101	3540613	122.15 ug/L	97
8) Trichlorotrifluoroethane	7.92	101	2030615	111.11 ug/L	88
9) acrolein	8.43	56	2957117	9253.59 ug/L	100
10) Acetone	8.86	43	933764	181.23 ug/L	89
11) 1,1-Dichloroethene	7.88	96	1583038	104.20 ug/L	79
12) 3-Chloropropene	8.62	76	1675481	221.32 ug/L	73
13) Acetonitrile	9.51	41	3886399	2166.31 ug/L	96
14) Iodomethane	8.14	142	4205799	250.82 ug/L	89
15) Carbon disulfide	7.96	76	6965462	128.40 ug/L	100
16) Methylene Chloride	8.77	84	2842390	193.61 ug/L	94
17) Methyl tert-butyl ether	9.13	73	6366588	173.80 ug/L	97
18) Acrylonitrile	9.88	53	8052554	1962.98 ug/L	97
19) T-1,2-Dichloroethene	9.01	96	2748208	210.60 ug/L	94
20) Isopropyl Ether	9.59	45	10662788	159.97 ug/L #	92
21) C-1,2-Dichloroethene	10.43	96	2848800	195.59 ug/L	97
22) 1,1-Dichloroethane	9.81	63	5020398	166.97 ug/L	98
23) Vinyl Acetate	10.05	43	8148174	154.11 ug/L	99
24) Chloroprene	9.78	53	4655056	163.42 ug/L	80
25) 2-Butanone	11.02	72	264201	232.29 ug/L	81
26) Propionitrile	11.36	54	2389717	1355.35 ug/L	100
27) 2,2-Dichloropropane	10.56	77	3844257	150.64 ug/L	97
28) Methacrylonitrile	11.38	67	6186206	1284.40 ug/L #	40
29) Chloroform	10.70	83	4366080	149.09 ug/L	89
31) Dibromofluoromethane	10.90	113	3056683	182.68 ug/L	100
32) Bromochloromethane	10.66	128	1359901	186.70 ug/L	80
33) 1,1,1-Trichloroethane	10.97	97	3613497	150.09 ug/L #	98
34) 1,1-Dichloropropene	11.07	75	3703439	176.08 ug/L	90
35) Diethyl ether	7.54	59	1743975	104.70 ug/l	94
36) Methyl Acetate	8.99	74	358669	209.50 ug/l #	65
37) Cyclohexane	10.68	56	4683475	185.54 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:51 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	3839151	201.27 ug/l #	84
40) Carbon Tetrachloride	10.89	117	3099137	162.65 ug/L	97
41) 1,2-Dichloroethane	11.54	62	3552539	160.94 ug/L	98
42) Benzene	11.34	78	8388830	174.54 ug/L #	67
43) Isobutyl Alcohol	11.41	43	4314754m	3335.49 ug/L	1
45) 1,2-Dichloroethane-d4	11.47	65	3283950	180.07 ug/l	94
46) Trichloroethene	11.88	130	2570252	206.53 ug/L #	84
47) 1,2-Dichloropropane	12.40	63	2664985	197.29 ug/L	83
48) Methyl Methacrylate	12.49	100	745622	267.74 ug/L #	1
49) 1,4-Dioxane	12.61	88	564672m	5503.92 ug/L	83
50) Bromodichloromethane	12.43	83	3369628	180.17 ug/L #	100
51) Dibromomethane	12.32	93	1699200	188.79 ug/L	88
52) 4-Methyl-2-Pentanone	13.50	100	346640	276.78 ug/L	83
53) 2-Chloroethyl vinyl ether	12.99	63	36585m	211.08 ug/L	74
54) 2-Hexanone	14.20	43	2177060	225.27 ug/L #	95
55) C-1,3-Dichloropropene	12.99	75	4509418	202.72 ug/L	75
57) D8-Toluene	13.16	98	8433185	211.00 ug/L	96
59) Toluene	13.21	92	5704583	199.21 ug/L	92
60) Ethyl Methacrylate	13.60	69	3095051	209.65 ug/L #	67
61) T-1,3-Dichloropropene	13.55	75	3548737	175.22 ug/L #	71
62) 1,1,2-Trichloroethane	13.71	97	2041388	207.79 ug/L	97
63) 1,3-Dichloropropane	13.96	76	3792836	196.53 ug/L	98
64) Tetrachloroethene	13.57	164	1984606	212.18 ug/L	92
65) Dibromochloromethane	13.89	129	2881764	208.11 ug/L	96
66) 1,2-Dibromoethane	14.15	107	2421501	216.28 ug/L	90
67) Chlorobenzene	14.58	112	6320514	213.80 ug/L	90
68) 1,1,1,2-Tetrachloroethane	14.61	131	2486217	197.40 ug/L	91
69) Ethylbenzene	14.54	106	3244267	205.89 ug/L	85
70) m-xylene & p-xylene	14.66	106	7157389	371.67 ug/L	70
71) O-Xylene	15.07	106	4189144	233.03 ug/L	87
72) Bromoform	15.22	173	1834532	206.94 ug/L	93
73) Styrene	15.12	104	6913312	198.93 ug/L	88
74) Isopropylbenzene	15.34	105	9973276	205.36 ug/L	95
75) 1,2,3-Trichloropropane	16.00	75	2958869	179.45 ug/L	100
76) 1,1,2,2-Tetrachloroethane	15.81	83	2466623	172.84 ug/L	97
78) Bromofluorobenzene	15.68	95	3737705	204.10 ug/L #	73
79) T-1,4-dichloro-2-butene	15.99	53	872343	170.22 ug/L #	84
80) N-Propylbenzene	15.75	91	11683113	198.01 ug/L	89
81) Pentachloroethane	16.37	167	1719252	213.87 ug/l	97
83) Bromobenzene	15.83	156	2793874	189.39 ug/L	80
84) 1,3,5-Trimethylbenzene	15.90	105	7987515	172.27 ug/L	87
85) 2-Chlorotoluene	15.98	91	7281451	181.18 ug/L	91
86) 4-Chlorotoluene	16.14	91	7564783	191.31 ug/L	88
87) 1,2,4-Trimethylbenzene	16.34	105	7647665	162.45 ug/L	92
88) s-Butylbenzene	16.47	105	10644934	198.07 ug/L	90
89) tert-Butylbenzene	16.28	119	7291131	202.22 ug/L	95
90) p-Isopropyltoluene	16.59	119	8219590	181.62 ug/L	98
91) 1,3-Dichlorobenzene	16.82	146	5148880	213.06 ug/L	92
92) 1,4-Dichlorobenzene	16.91	146	4942741	185.39 ug/L	94
93) 1,2-Dichlorobenzene	17.47	146	4866054	214.81 ug/L	97
94) N-Butylbenzene	17.10	91	8041613	167.85 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:51 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.62	75	433930	155.86 ug/L	84
96) Naphthalene	20.53	128	6653304	203.12 ug/L	100
97) 1,2,4-Trichlorobenzene	19.81	180	3182492	213.29 ug/L	91
98) Hexachlorobutadiene	19.64	225	1599735	212.61 ug/L	98
99) 1,2,3-Trichlorobenzene	20.94	180	2829299	203.51 ug/L	94

(#) = qualifier out of range (m) = manual integration

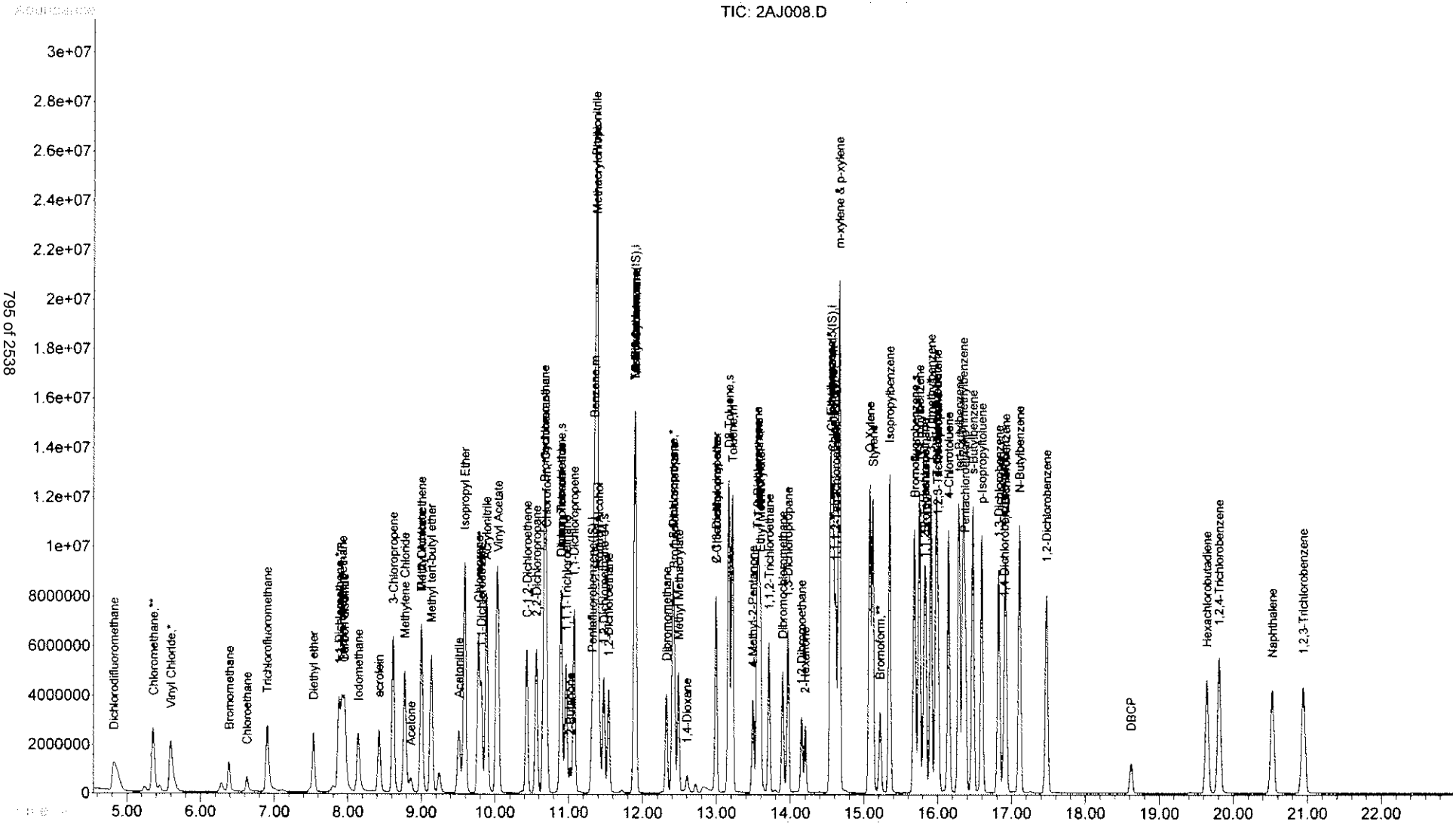
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D
Acq On : 15 Jan 2013 17:10
Sample : aa22782-cal6
Misc : cal 200 1ppb
MS Integration Params: rteint.p
Quant Time: Jan 16 12:51 2013

Vial: 8
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: W1301050.RES

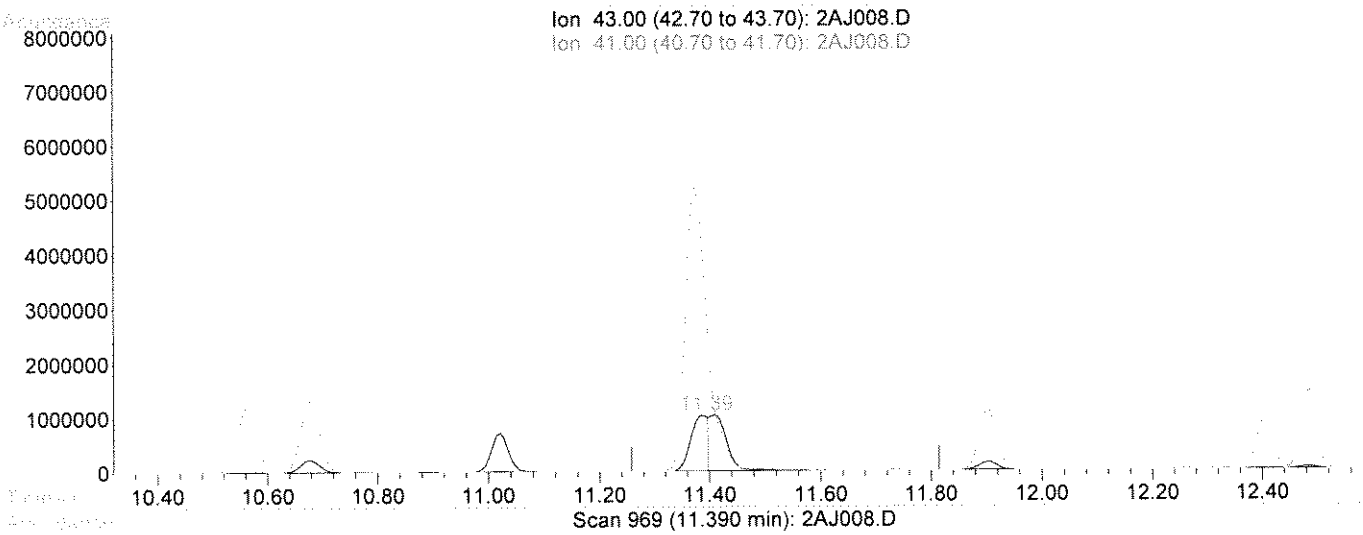
Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration

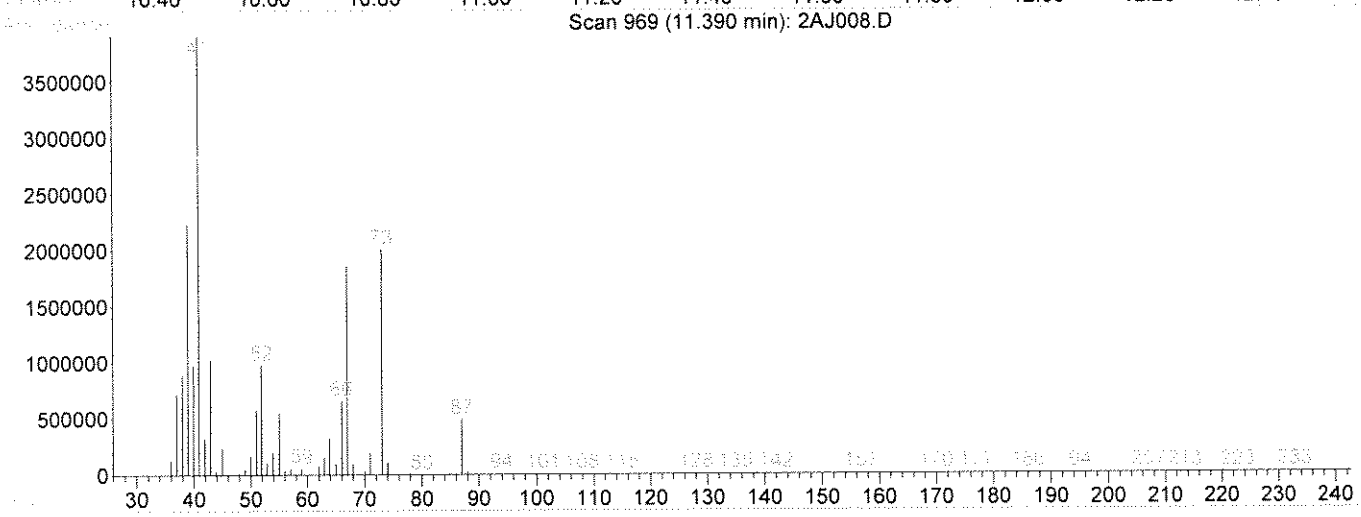


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 9:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:14:04 2013
Response via : Multiple Level Calibration





TIC: 2AJ008.D

(43) Isobutyl Alcohol

11.39min 1728.57ug/L

response 2236059

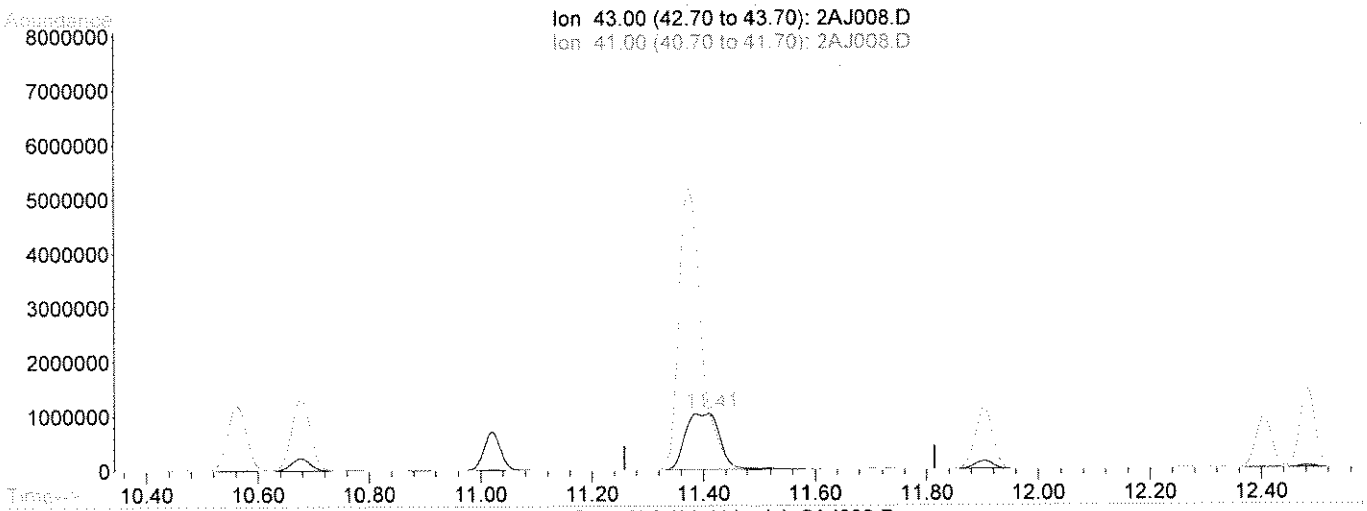
Ion	Exp%	Act%
43.00	100	100
41.00	83.10	644.52#
42.00	35.60	92.96#
0.00	0.00	0.00

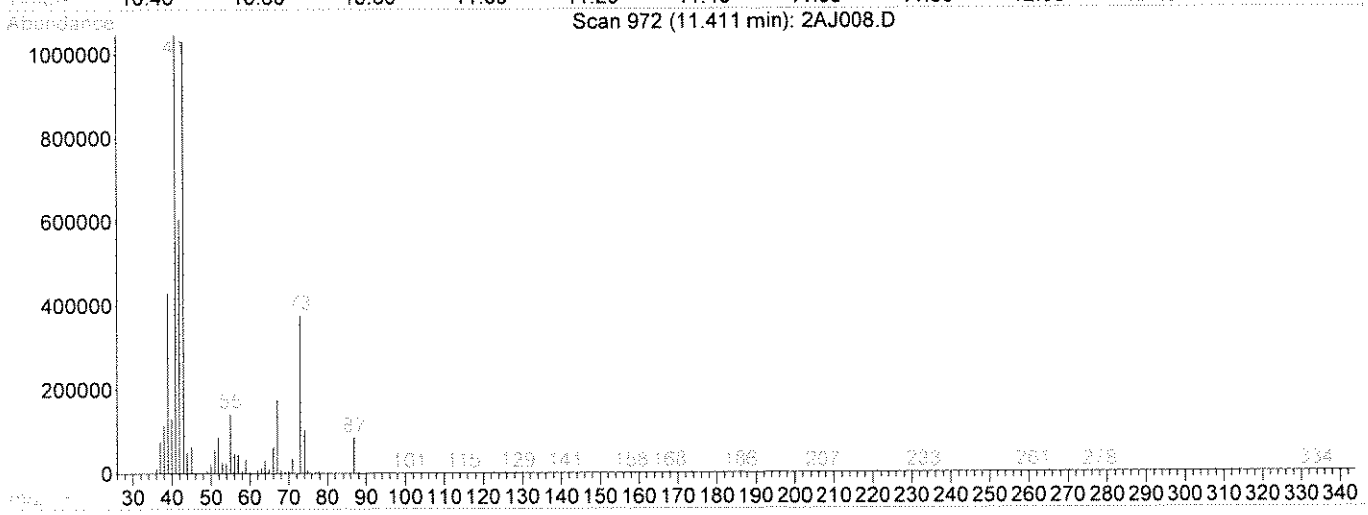
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 1/16/13
Review by/Date: 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ008.D

(43) Isobutyl Alcohol

11.41min 3335.49ug/L m

response 4314754

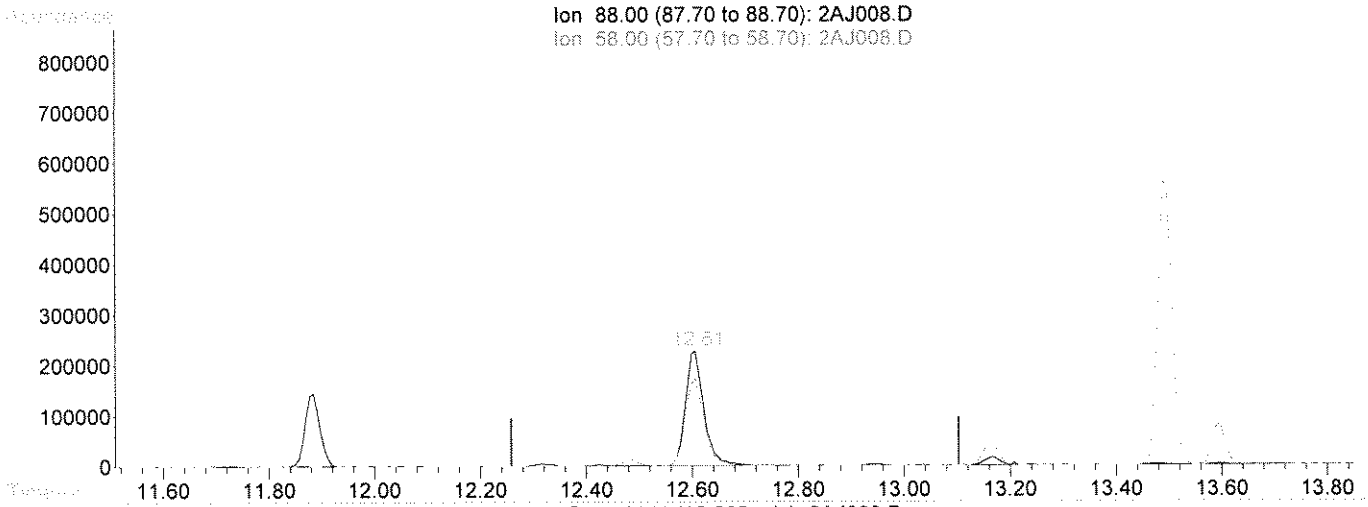
Ion	Exp%	Act%
43.00	100	100
41.00	83.10	334.01#
42.00	35.60	48.18
0.00	0.00	0.00

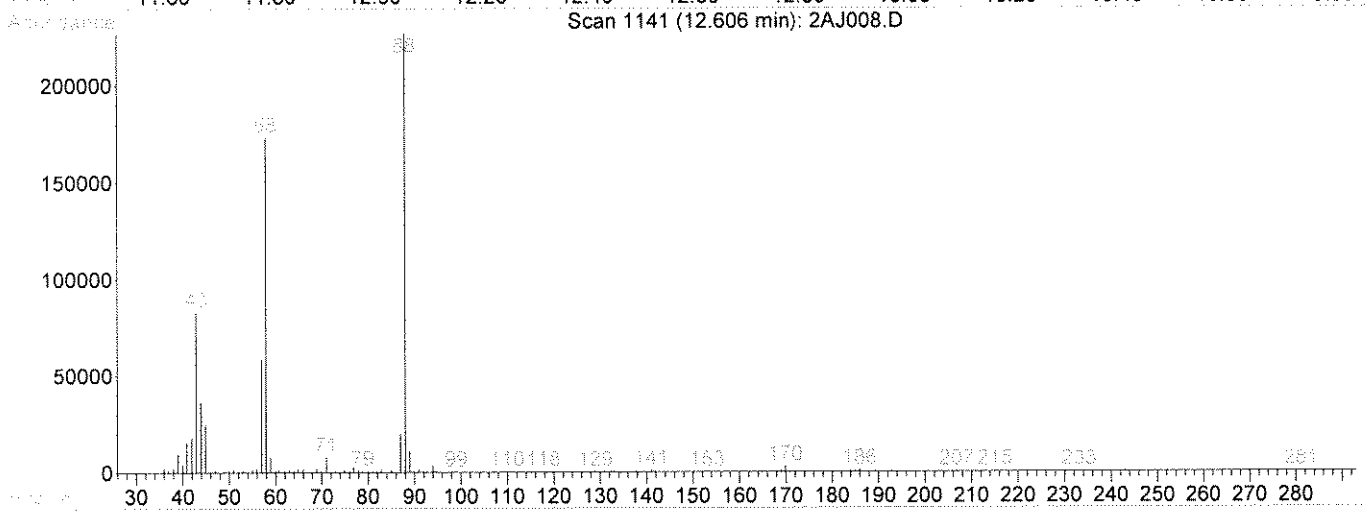
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:14 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:14:36 2013
Response via : Multiple Level Calibration





TIC: 2AJ008.D

(49) 1,4-Dioxane

12.61min 5311.73ug/L

response 544955

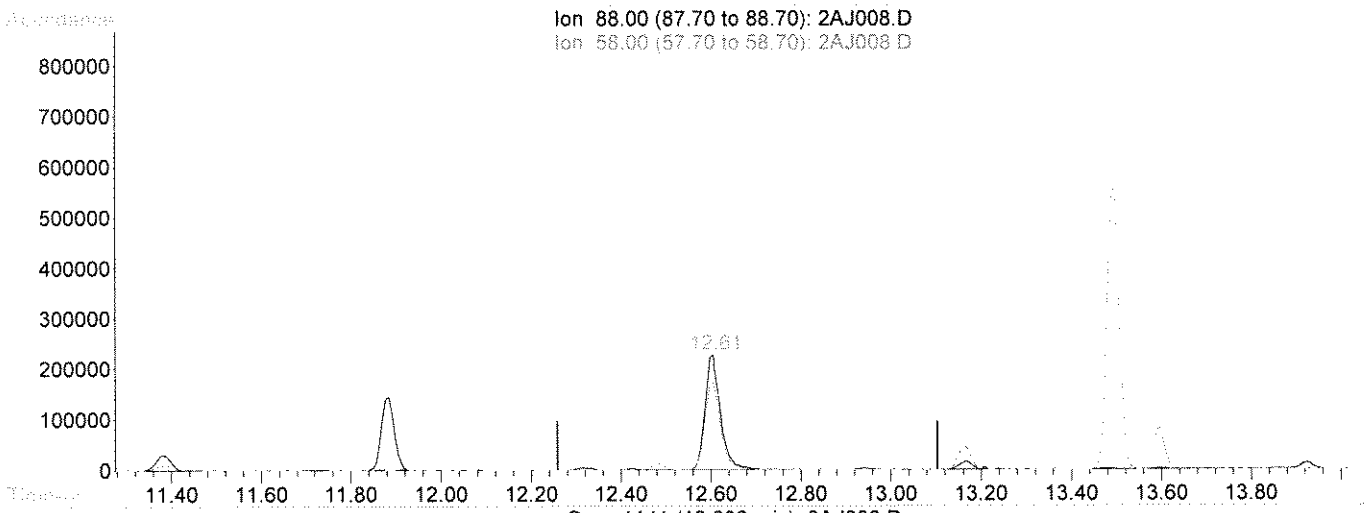
Ion	Exp%	Act%
88.00	100	100
58.00	63.40	76.35#
0.00	0.00	0.00
0.00	0.00	0.00

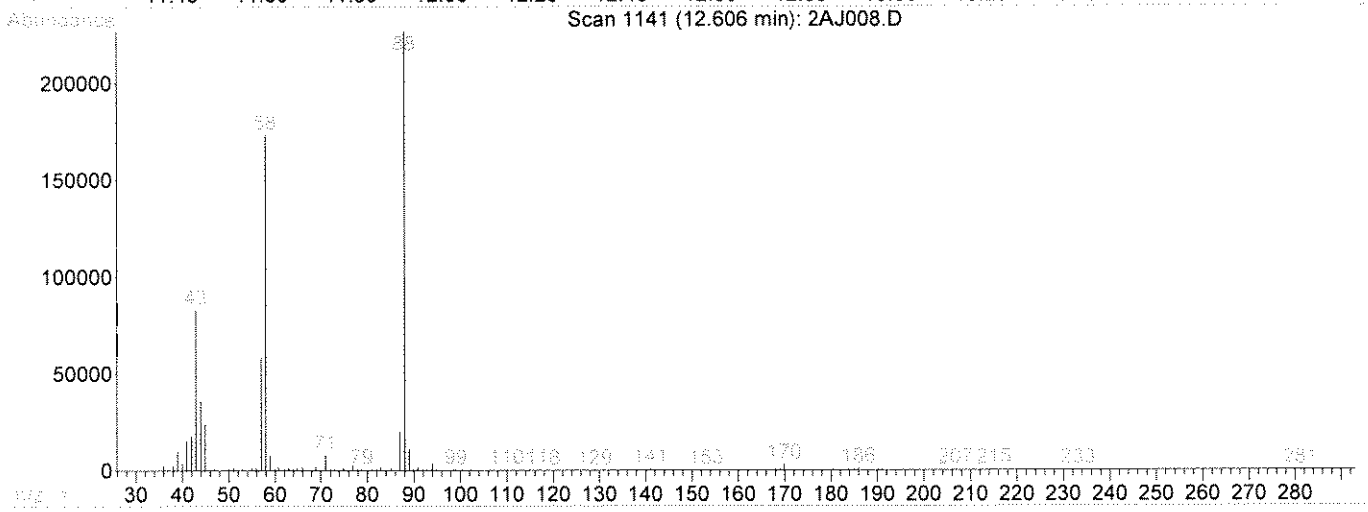
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ008.D

(49) 1,4-Dioxane

12.61min 5503.92ug/L m

response 564672

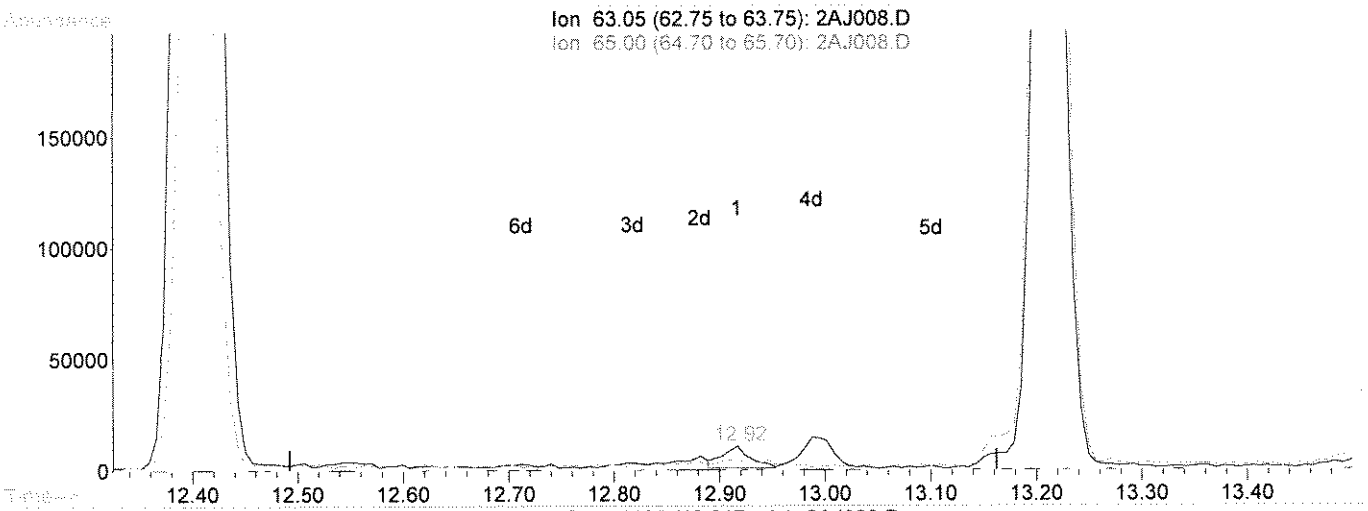
Ion	Exp%	Act%
88.00	100	100
58.00	63.40	73.68
0.00	0.00	0.00
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: 1/17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:16 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 12:40:00 2013
Response via : Multiple Level Calibration



(53) 2-Chloroethyl vinyl ether

12.92min 100.85ug/L

response 17480

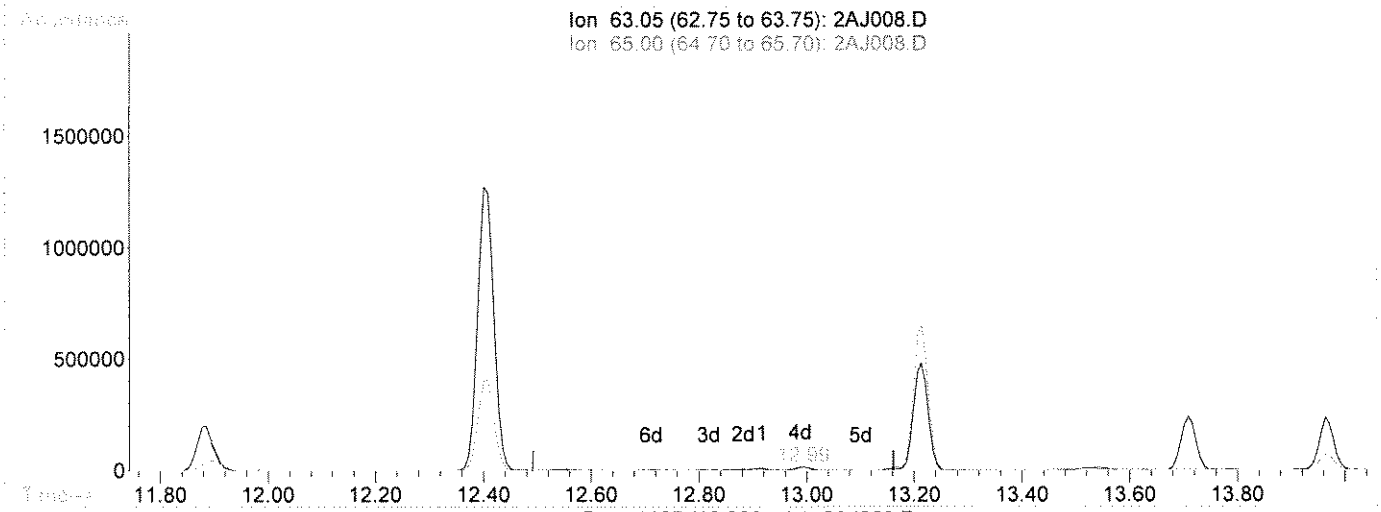
Ion	Exp%	Act%
63.05	100	100
65.00	20.00	16.46
106.05	20.90	0.96
0.00	0.00	0.00

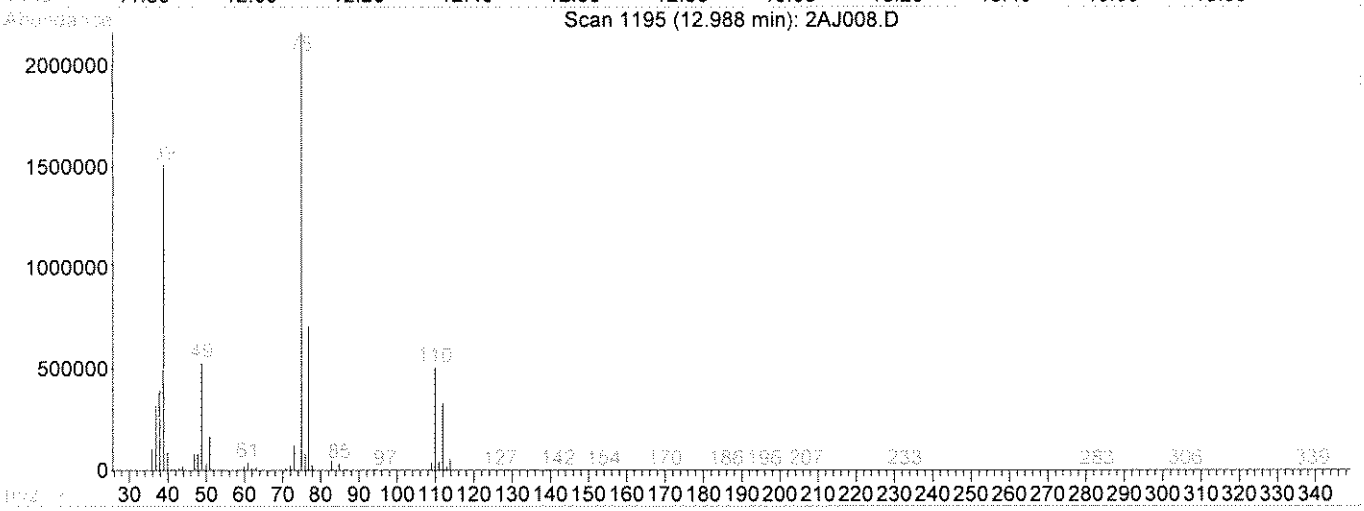
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ008.D Vial: 8
Acq On : 15 Jan 2013 17:10 Operator: kat
Sample : aa22782-cal6 Inst : OVGCMS2
Misc : cal 200 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration





TIC: 2AJ008.D

(53) 2-Chloroethyl vinyl ether

12.99min 211.08ug/L m

response 36585

Ion	Exp%	Act%
63.05	100	100
65.00	20.00	7.86
106.05	20.90	0.46
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13.
Review by/Date: KS 1-17-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ009.D
Acq On : 15 Jan 2013 17:41
Sample : aa22782-cal7
Misc : cal 400 1ppb
MS Integration Params: rteint.p
Quant Time: Jan 16 12:00 2013

Vial: 9
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

VG 1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1209362	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1973396	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1762095	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.90	152	833163	50.00 ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	0.00	113	0d	0.00 ug/L	
Spiked Amount 50.000	Range 53 - 146		Recovery = 0.00%#		
44) 1,2-Dichloroethane-d4	0.00	65	0d	0.00 ug/l	
Spiked Amount 50.000	Range 45 - 174		Recovery = 0.00%#		
56) D8-Toluene	0.00	98	0d	0.00 ug/L	
Spiked Amount 50.000	Range 41 - 146		Recovery = 0.00%#		
77) Bromofluorobenzene	0.00	95	0d	0.00 ug/L	
Spiked Amount 50.000	Range 41 - 142		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D. d	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D. d	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D. d	
8) Trichlorotrifluoroethane	0.00	101		N.D. d	
9) acrolein	0.00	56		N.D. d	
10) Acetone	8.86	43	1742829	341.30 ug/L	91
11) 1,1-Dichloroethene	0.00	96		N.D. d	
12) 3-Chloropropene	8.62	76	3156507	420.70 ug/L	69
13) Acetonitrile	9.51	41	7674763	4316.45 ug/L	98
14) Iodomethane	8.14	142	7356719	442.67 ug/L	90
15) Carbon disulfide	7.96	76	13038296	242.52 ug/L	99
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D. d	
18) Acrylonitrile	9.78	53	8544723	2101.69 ug/L #	50
19) T-1,2-Dichloroethene	0.00	96		N.D. d	
20) Isopropyl Ether	0.00	45		N.D. d	
21) C-1,2-Dichloroethene	0.00	96		N.D. d	
22) 1,1-Dichloroethane	0.00	63		N.D. d	
23) Vinyl Acetate	10.04	43	13652291	260.53 ug/L	94
24) Chloroprene	9.78	53	8544723	302.67 ug/L	79
25) 2-Butanone	11.02	72	507757	450.43 ug/L	81
26) Propionitrile	11.37	54	4250905	2432.62 ug/L	100
27) 2,2-Dichloropropane	0.00	77		N.D. d	
28) Methacrylonitrile	11.38	67	10765783	2255.33 ug/L	66
29) Chloroform	0.00	83		N.D. d	
31) Dibromofluoromethane	0.00	113		N.D. d	
32) Bromochloromethane	0.00	128		N.D. d	
33) 1,1,1-Trichloroethane	0.00	97		N.D. d	
34) 1,1-Dichloropropene	0.00	75		N.D. d	
35) Diethyl ether	0.00	59		N.D. d	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ009.D Vial: 9
Acq On : 15 Jan 2013 17:41 Operator: kat
Sample : aa22782-cal7 Inst : OVGCMS2
Misc : cal 400 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:00 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D. d	
41) 1,2-Dichloroethane	0.00	62		N.D. d	
42) Benzene	0.00	78		N.D. d	
43) Isobutyl Alcohol	11.42	43	3762867	2561.85 ug/L #	1
45) 1,2-Dichloroethane-d4	0.00	65		N.D. d	
46) Trichloroethene	0.00	130		N.D. d	
47) 1,2-Dichloropropane	0.00	63		N.D. d	
48) Methyl Methacrylate	12.48	100	1363119	431.08 ug/L #	1
49) 1,4-Dioxane	12.60	88	1016716	8727.84 ug/L	85
50) Bromodichloromethane	0.00	83		N.D. d	
51) Dibromomethane	0.00	93		N.D. d	
52) 4-Methyl-2-Pentanone	13.49	100	660768	464.66 ug/L	86
53) 2-Chloroethyl vinyl ether	12.87	63	36469	185.31 ug/L	84
54) 2-Hexanone	14.20	43	4083323	372.12 ug/L #	96
55) C-1,3-Dichloropropene	0.00	75		N.D. d	
57) D8-Toluene	0.00	98		N.D. d	
59) Toluene	0.00	92		N.D. d	
60) Ethyl Methacrylate	13.59	69	5801159	345.77 ug/L	70
61) T-1,3-Dichloropropene	0.00	75		N.D. d	
62) 1,1,2-Trichloroethane	0.00	97		N.D. d	
63) 1,3-Dichloropropane	0.00	76		N.D. d	
64) Tetrachloroethene	0.00	164		N.D. d	
65) Dibromochloromethane	0.00	129		N.D. d	
66) 1,2-Dibromoethane	0.00	107		N.D. d	
67) Chlorobenzene	0.00	112		N.D. d	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D. d	
69) Ethylbenzene	0.00	106		N.D. d	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D. d	
72) Bromoform	0.00	173		N.D. d	
73) Styrene	0.00	104		N.D. d	
74) Isopropylbenzene	0.00	105		N.D. d	
75) 1,2,3-Trichloropropane	0.00	75		N.D. d	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D. d	
78) Bromofluorobenzene	0.00	95		N.D. d	
79) T-1,4-dichloro-2-butene	15.99	53	1811339	311.02 ug/L #	20
80) N-Propylbenzene	0.00	91		N.D. d	
81) Pentachloroethane	0.00	167		N.D. d	
83) Bromobenzene	0.00	156		N.D. d	
84) 1,3,5-Trimethylbenzene	0.00	105		N.D. d	
85) 2-Chlorotoluene	0.00	91		N.D. d	
86) 4-Chlorotoluene	0.00	91		N.D. d	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
88) s-Butylbenzene	0.00	105		N.D. d	
89) tert-Butylbenzene	0.00	119		N.D. d	
90) p-Isopropyltoluene	0.00	119		N.D. d	
91) 1,3-Dichlorobenzene	0.00	146		N.D. d	
92) 1,4-Dichlorobenzene	0.00	146		N.D. d	
93) 1,2-Dichlorobenzene	0.00	146		N.D. d	
94) N-Butylbenzene	0.00	91		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ009.D Vial: 9
Acq On : 15 Jan 2013 17:41 Operator: kat
Sample : aa22782-cal7 Inst : OVGCMS2
Misc : cal 400 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:00 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 09:53:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

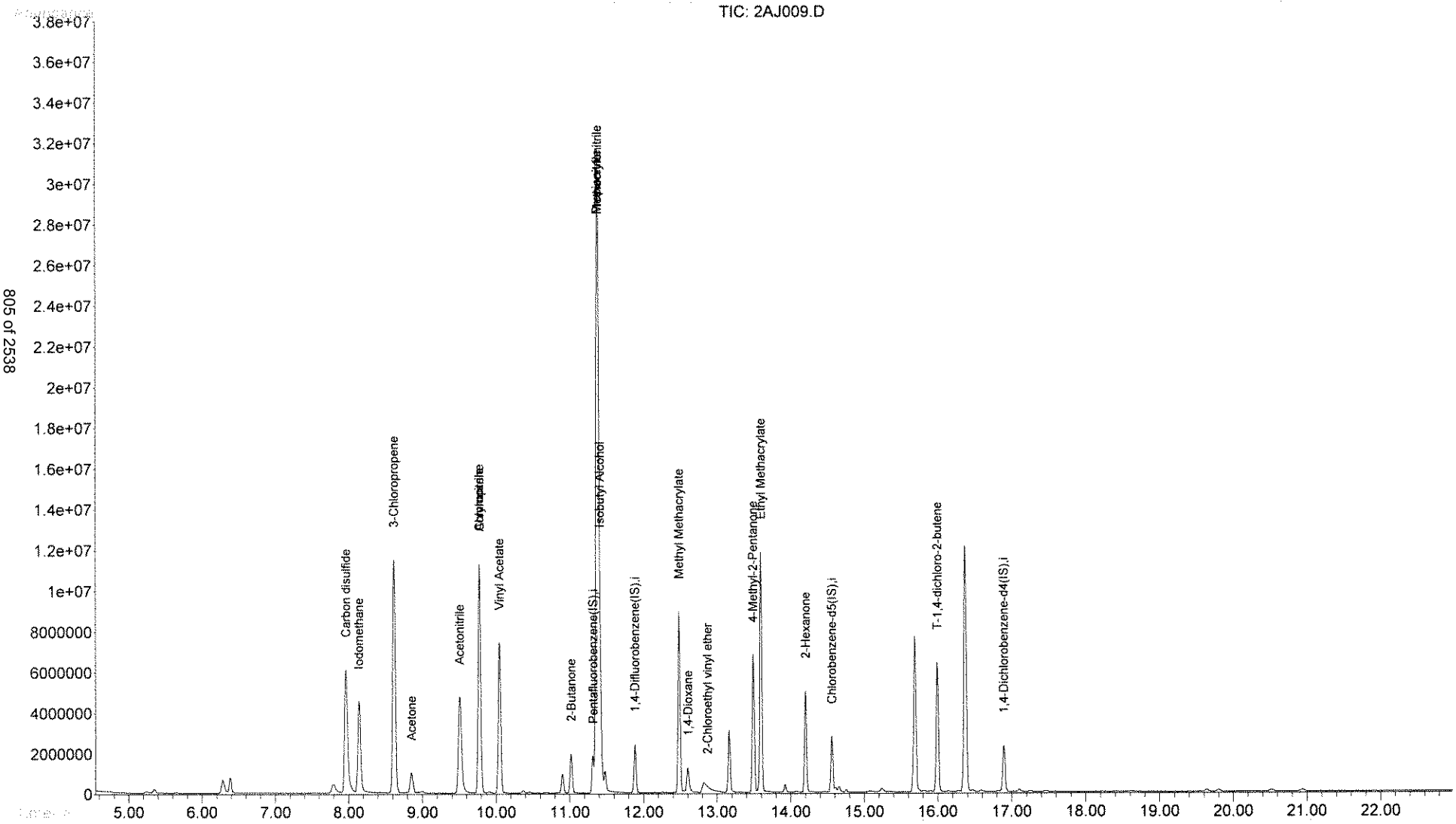
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	0.00	75		N.D. d	
96) Naphthalene	0.00	128		N.D. d	
97) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
98) Hexachlorobutadiene	0.00	225		N.D. d	
99) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ009.D Vial: 9
Acq On : 15 Jan 2013 17:41 Operator: kat
Sample : aa22782-cal7 Inst : OVGCMS2
Misc : cal 400 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 12:00 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration



Initial Calibration Verification - Second Source Standard

8260B DOD Extended

File Information

Filename: 2AJ012.D
Sample ID: AA22782-SCV1
Analysis Date: 1/15/2013 19:14:00
Calibration: 1301050

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Dichlorodifluoromethane	50.0	48	80	120	96	PASS
Chloromethane	50.0	42	80	120	84	PASS
Vinyl chloride	50.0	41	80	120	82	PASS
Bromomethane	50.0	47	80	120	93	PASS
Chloroethane	50.0	41	80	120	81	PASS
Trichlorofluoromethane	50.0	43	80	120	86	PASS
Freon 113	50.0	54	80	120	109	PASS
Acrolein	250	240	75	125	96	PASS
Acetone	125	110	80	120	88	PASS
1,1-Dichloroethene	50.0	58	80	120	116	PASS
3-Chloropropene	50.0	51	75	125	101	PASS
Acetonitrile	500	510	75	125	102	PASS
Iodomethane	50.0	49	75	125	99	PASS
Carbon disulfide	250	230	80	120	92	PASS
Methylene Chloride	50.0	55	80	120	110	PASS
Methyl-tert-Butyl Ether	50.0	58	80	120	116	PASS
Acrylonitrile	250	290	75	125	115	PASS
trans-1,2-Dichloroethene	50.0	57	80	120	114	PASS
Isopropyl Ether	50.0	58	75	125	116	PASS
cis-1,2-Dichloroethene	50.0	55	80	120	111	PASS
1,1-Dichloroethane	50.0	57	80	120	114	PASS
Vinyl acetate	50.0	53	75	125	106	PASS
Chloroprene	50.0	48	75	125	96	PASS
2-Butanone	125	120	80	120	100	PASS
Propionitrile	500	510	75	125	103	PASS
2,2-Dichloropropane	50.0	51	80	120	103	PASS
Methacrylonitrile	50.0	49	75	125	97	PASS
Chloroform	50.0	57	80	120	114	PASS
Bromochloromethane	50.0	56	80	120	113	PASS
1,1,1-Trichloroethane	50.0	57	80	120	114	PASS
1,1-Dichloropropene	50.0	56	80	120	112	PASS
Diethyl ether	50.0	56	75	125	112	PASS
Methyl acetate	50.0	57	80	120	114	PASS
Cyclohexane	50.0	51	80	120	102	PASS
Methyl cyclohexane	50.0	50	80	120	100	PASS
Carbon Tetrachloride	50.0	58	80	120	115	PASS
1,2-Dichloroethane	50.0	57	80	120	114	PASS
Benzene	50.0	57	80	120	114	PASS
Isobutyl alcohol	500	450	75	125	91	PASS
Trichloroethene	50.0	56	80	120	112	PASS
1,2-Dichloropropane	50.0	58	80	120	116	PASS
Methyl Methacrylate	50.0	50	75	125	101	PASS
1,4-Dioxane	500	530	75	125	106	PASS
Bromodichloromethane	50.0	56	80	120	113	PASS
Dibromomethane	50.0	58	80	120	116	PASS
4-Methyl-2-pentanone	125	130	80	120	104	PASS
2-Chloroethyl Vinyl Ether	50.0	47	80	120	94	PASS
2-Hexanone	125	120	80	120	95	PASS
cis-1,3-Dichloropropene	50.0	53	80	120	106	PASS
Toluene	50.0	54	80	120	108	PASS
Ethyl Methacrylate	50.0	47	75	125	95	PASS
trans-1,3-Dichloropropene	50.0	57	80	120	113	PASS
1,1,2-Trichloroethane	50.0	57	80	120	114	PASS
1,3-Dichloropropane	50.0	54	80	120	109	PASS

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 2AJ012.D
Sample ID: AA22782-SCV1
Analysis Date: 1/15/2013 19:14:00
Calibration: 1301050

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Tetrachloroethene	50.0	55	80	120	111	PASS
Dibromochloromethane	50.0	55	80	120	111	PASS
1,2-Dibromoethane	50.0	55	80	120	110	PASS
Chlorobenzene	50.0	51	80	120	103	PASS
1,1,1,2-Tetrachloroethane	50.0	53	80	120	105	PASS
Ethylbenzene	50.0	53	80	120	107	PASS
m,p-Xylenes	100	110	80	120	107	PASS
o-Xylene	50.0	52	80	120	104	PASS
Bromoform	50.0	57	80	120	115	PASS
Styrene	50.0	54	80	120	107	PASS
Isopropylbenzene	50.0	52	80	120	103	PASS
1,2,3-Trichloropropane	50.0	52	80	120	103	PASS
1,1,2,2-Tetrachloroethane	50.0	57	80	120	113	PASS
trans-1,4-Dichloro-2-butene	50.0	44	75	125	89	PASS
n-Propyl Benzene	50.0	52	80	120	104	PASS
Bromobenzene	50.0	53	80	120	107	PASS
1,3,5-Trimethylbenzene	50.0	50	80	120	101	PASS
2-Chlorotoluene	50.0	49	80	120	98	PASS
4-Chlorotoluene	50.0	50	80	120	99	PASS
1,2,4-Trichlorobenzene	50.0	51	80	120	101	PASS
sec-Butylbenzene	50.0	52	80	120	103	PASS
tert-Butylbenzene	50.0	52	80	120	104	PASS
4-Isopropyltoluene	50.0	56	80	120	112	PASS
1,3-Dichlorobenzene	50.0	50	80	120	99	PASS
1,4-Dichlorobenzene	50.0	52	80	120	103	PASS
1,2-Dichlorobenzene	50.0	51	80	120	102	PASS
n-Butyl Benzene	50.0	51	80	120	102	PASS
1,2-Dibromo-3-chloropropane	50.0	58	80	120	117	PASS
Naphthalene	50.0	53	80	120	106	PASS
1,2,4-Trimethylbenzene	50.0	53	80	120	105	PASS
Hexachlorobutadiene	50.0	50	80	120	100	PASS
1,2,3-Trichlorobenzene	50.0	52	80	120	104	PASS
Dibromofluoromethane	50.0	40	80	120	81	PASS
1,2-Dichloroethane-d4	50.0	41	80	120	82	PASS
Toluene-d8	50.0	42	80	120	85	PASS
4-Bromofluorobenzene	50.0	42	80	120	84	PASS
Pentafluorobenzene	50.0	50	50	200	99	PASS
1,4-Difluorobenzene	50.0	50	50	200	101	PASS
Chlorobenzene-d5	50.0	50	50	200	103	PASS
1,4-Dichlorobenzene-d4	50.0	50	50	200	100	PASS

K Trupp
Signature

1-16-13
Date

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration

KG 1/16/13

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	97	0.00
2		Dichlorodifluoromethane	0.850	0.814	4.2	93	0.00
3	**	Chloromethane	1.068	0.894	16.3	88	0.00
4	*	Vinyl Chloride	1.060	0.865	18.4	85	0.00
5		Bromomethane	0.442	0.412	6.8	97	0.00
6		Chloroethane	0.376	0.306	18.6	83	0.02
7		Trichlorofluoromethane	0.804	0.689	14.3	84	0.02
8		Trichlorotrifluoroethane	0.380	0.414	-8.9	108	0.00
9		acrolein	0.060	0.029#	51.7#	49#	0.00
10		Acetone	0.209	0.462	-121.1#	225#	0.00
11	*m	1,1-Dichloroethene	0.294	0.341	-16.0	124	0.00
12		3-Chloropropene	0.389	0.394	-1.3	105	0.00
13		Acetonitrile	0.082	0.083#	-1.2	101	0.00
14		Iodomethane	0.722	0.714	1.1	99	0.00
15		Carbon disulfide	1.615	7.390	-357.6#	463#	0.00
16		Methylene Chloride	0.563	0.620	-10.1	121	0.00
17		Methyl tert-butyl ether	1.072	1.238	-15.5	132	0.00
18		Acrylonitrile	0.177	0.101	42.9#	56	0.00
19		T-1,2-Dichloroethene	0.516	0.588	-14.0	119	0.00
20		Isopropyl Ether	1.910	2.216	-16.0	128	0.00
21		C-1,2-Dichloroethene	0.533	0.590	-10.7	116	0.00
22	**	1,1-Dichloroethane	0.977	1.113	-13.9	122	0.00
23		Vinyl Acetate	1.826	1.928	-5.6	103	0.00
24		Chloroprene	1.046	1.001	4.3	97	0.00
25		2-Butanone	0.054	0.135	-150.0#	235#	0.00
26		Propionitrile	0.070	0.072#	-2.9	105	0.00
27		2,2-Dichloropropane	0.743	0.765	-3.0	115	0.00
28		Methacrylonitrile	0.194	0.019#	90.2#	10#	0.00
29	*	Chloroform	0.857	0.976	-13.9	120	0.00
30	s	Dibromofluoromethane	0.634	0.510	19.6	98	0.00
31		Dibromofluoromethane	0.634	0.510	19.6	98	0.00
32		Bromochloromethane	0.281	0.316	-12.5	118	0.00
33		1,1,1-Trichloroethane	0.656	0.746	-13.7	121	0.00
34		1,1-Dichloropropene	0.687	0.768	-11.8	117	0.00
35		Diethyl ether	0.335	0.374	-11.6	115	0.00
36		Methyl Acetate	0.073	0.083#	-13.7	113	0.00
37		Cyclohexane	1.007	1.023	-1.6	103	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	97	0.00
39		Methyl Cyclohexane	0.530	0.530	0.0	106	0.00
40		Carbon Tetrachloride	0.363	0.419	-15.4	120	0.00
41		1,2-Dichloroethane	0.423	0.483	-14.2	126	0.00
42	m	Benzene	1.107	1.267	-14.5	120	0.00
43		Isobutyl Alcohol	0.029	0.013#	55.2#	48#	-0.02
44	s	1,2-Dichloroethane-d4	0.420	0.344	18.1	102	0.00
45		1,2-Dichloroethane-d4	0.420	0.344	18.1	102	0.00
46	m	Trichloroethene	0.333	0.372	-11.7	120	0.00
47	*	1,2-Dichloropropane	0.344	0.400	-16.3	123	0.00
48		Methyl Methacrylate	0.096	0.097#	-1.0	96	0.00
49		1,4-Dioxane	0.004	0.002#	50.0#	55	0.00
50		Bromodichloromethane	0.416	0.470	-13.0	124	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.201	0.234	-16.4	126	0.00
52		4-Methyl-2-Pentanone	0.044	0.115	-161.4#	250#	0.00
53		2-Chloroethyl vinyl ether	0.006	0.005#	16.7	101	-0.01
54		2-Hexanone	0.309	0.736	-138.2#	241#	0.00
55		C-1,3-Dichloropropene	0.558	0.594	-6.5	115	0.00
56	s	D8-Toluene	1.216	1.031	15.2	101	0.00
57		D8-Toluene	1.216	1.031	15.2	101	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	97	0.00
59	m*	Toluene	0.853	0.922	-8.1	118	0.00
60		Ethyl Methacrylate	0.513	0.487	5.1	92	0.00
61		T-1,3-Dichloropropene	0.523	0.591	-13.0	126	0.00
62		1,1,2-Trichloroethane	0.290	0.331	-14.1	128	0.00
63		1,3-Dichloropropane	0.534	0.582	-9.0	121	0.00
64		Tetrachloroethene	0.283	0.314	-11.0	119	0.00
65		Dibromochloromethane	0.402	0.444	-10.4	127	0.00
66		1,2-Dibromoethane	0.330	0.363	-10.0	121	0.00
67	**m	Chlorobenzene	0.989	1.016	-2.7	114	0.00
68		1,1,1,2-Tetrachloroethane	0.366	0.384	-4.9	118	0.00
69	*	Ethylbenzene	0.480	0.513	-6.9	116	0.00
70		m-xylene & p-xylene	0.593	0.635	-7.1	113	0.00
71		O-Xylene	0.623	0.646	-3.7	115	0.00
72	**	Bromoform	0.242	0.277	-14.5	126	0.00
73		Styrene	1.046	1.123	-7.4	118	0.00
74		Isopropylbenzene	1.546	1.595	-3.2	112	0.00
75		1,2,3-Trichloropropane	0.466	0.482	-3.4	110	0.00
76	**	1,1,2,2-Tetrachloroethane	0.371	0.421	-13.5	128	0.00
77	s	Bromofluorobenzene	0.573	0.479	16.4	102	0.00
78		Bromofluorobenzene	0.573	0.479	16.4	102	0.00
79		T-1,4-dichloro-2-butene	0.144	0.128	11.1	91	0.00
80		N-Propylbenzene	1.837	1.901	-3.5	111	0.00
81		Pentachloroethane	0.293	0.006#	98.0#	2#	0.00
82	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	99	0.00
83		Bromobenzene	0.873	0.934	-7.0	120	0.00
84		1,3,5-Trimethylbenzene	2.574	2.597	-0.9	112	0.00
85		2-Chlorotoluene	2.397	2.358	1.6	111	0.00
86		4-Chlorotoluene	2.419	2.397	0.9	111	0.00
87		1,2,4-Trimethylbenzene	2.509	2.638	-5.1	116	0.00
88		s-Butylbenzene	3.409	3.522	-3.3	110	0.00
89		tert-Butylbenzene	2.283	2.385	-4.5	114	0.00
90		p-Isopropyltoluene	2.590	2.894	-11.7	122	0.00
91		1,3-Dichlorobenzene	1.649	1.635	0.8	112	0.00
92		1,4-Dichlorobenzene	1.566	1.613	-3.0	116	0.00
93		1,2-Dichlorobenzene	1.518	1.544	-1.7	114	0.00
94		N-Butylbenzene	2.529	2.575	-1.8	112	0.00
95		DBCP	0.123	0.143	-16.3	135	0.00
96		Naphthalene	1.922	2.037	-6.0	125	0.00
97		1,2,4-Trichlorobenzene	0.918	0.929	-1.2	116	0.00
98		Hexachlorobutadiene	0.438	0.440	-0.5	115	0.00
99		1,2,3-Trichlorobenzene	0.792	0.825	-4.2	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:05 2013 Quant Results File: W1301050.RES

50ppb
DOD

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LT 1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1210001m	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1907854m	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1678628	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	798613	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	617515	40.26 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery =	80.52%	
44) 1,2-Dichloroethane-d4	11.47	65	656759	40.94 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery =	81.88%	
56) D8-Toluene	13.17	98	1967674	42.41 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery =	84.82%	
77) Bromofluorobenzene	15.68	95	803661	41.78 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery =	83.56%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	984531	47.88 ug/L	99
3) Chloromethane	5.36	50	1081439	41.86 ug/L	98
4) Vinyl Chloride	5.60	62	1046257	40.78 ug/L	98
5) Bromomethane	6.39	94	498115	46.52 ug/L	98
6) Chloroethane	6.66	64	370772	40.70 ug/L	98
7) Trichlorofluoromethane	6.96	101	833541	42.86 ug/L	95
8) Trichlorotrifluoroethane	7.93	101	500749	54.49 ug/L	87
9) acrolein	8.43	56	348579	240.55 ug/L	99
10) Acetone	8.85	43	558437	110.30 ug/L	92
11) 1,1-Dichloroethene	7.89	96	412132	58.00 ug/L	81
12) 3-Chloropropene	8.62	76	476519	50.59 ug/L	79
13) Acetonitrile	9.50	41	1010019	509.28 ug/L	95
14) Iodomethane	8.15	142	864031	49.44 ug/L	87
15) Carbon disulfide	7.98	76	8941481	228.81 ug/L	99
16) Methylene Chloride	8.78	84	750652	55.12 ug/L	94
17) Methyl tert-butyl ether	9.14	73	1498244	57.75 ug/L	97
18) Acrylonitrile	9.88	53	1227871	286.38 ug/L	97
19) T-1,2-Dichloroethene	9.01	96	712062	56.99 ug/L	94
20) Isopropyl Ether	9.59	45	2681586	58.01 ug/L	95
21) C-1,2-Dichloroethene	10.43	96	713345	55.29 ug/L	98
22) 1,1-Dichloroethane	9.82	63	1346705	56.95 ug/L	99
23) Vinyl Acetate	10.05	43	2332780	52.78 ug/L	98
24) Chloroprene	9.78	53	1211368	47.83 ug/L	79
25) 2-Butanone	11.02	72	163515	124.59 ug/L	84
26) Propionitrile	11.36	54	875000	514.90 ug/L	100
27) 2,2-Dichloropropane	10.56	77	925182	51.43 ug/L	98
28) Methacrylonitrile	11.37	67	227657	48.51 ug/L #	1
29) Chloroform	10.70	83	1181196	56.96 ug/L	92
31) Dibromofluoromethane	10.90	113	617515	40.26 ug/L	100
32) Bromochloromethane	10.66	128	382370	56.27 ug/L	77
33) 1,1,1-Trichloroethane	10.97	97	903180	56.93 ug/L #	96
34) 1,1-Dichloropropene	11.07	75	929384	55.87 ug/L	91
35) Diethyl ether	7.53	59	452788	55.79 ug/l	93
36) Methyl Acetate	8.99	74	100617	56.87 ug/l	67
37) Cyclohexane	10.68	56	1238131	50.81 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:05 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Methyl Cyclohexane	11.90	55	1010270	49.92 ug/l	#	85
40)	Carbon Tetrachloride	10.89	117	798657	57.67 ug/L		97
41)	1,2-Dichloroethane	11.54	62	922020	57.14 ug/L		99
42)	Benzene	11.34	78	2417677	57.22 ug/L		99
43)	Isobutyl Alcohol	11.39	43	503658	452.51 ug/L		91
45)	1,2-Dichloroethane-d4	11.47	65	656759	40.94 ug/l		93
46)	Trichloroethene	11.89	130	709100	55.83 ug/L		86
47)	1,2-Dichloropropane	12.40	63	763409	58.09 ug/L		86
48)	Methyl Methacrylate	12.48	100	184368	50.39 ug/L	#	1
49)	1,4-Dioxane	12.60	88	72847	530.65 ug/L	#	74
50)	Bromodichloromethane	12.42	83	896055	56.40 ug/L	#	100
51)	Dibromomethane	12.33	93	446530	58.19 ug/L		88
52)	4-Methyl-2-Pentanone	13.49	100	220201	129.70 ug/L		85
53)	2-Chloroethyl vinyl ether	12.98	63	9910	47.04 ug/L		58
54)	2-Hexanone	14.20	43	1404891	119.17 ug/L	#	94
55)	C-1,3-Dichloropropene	12.99	75	1133443	53.24 ug/L		77
57)	D8-Toluene	13.17	98	1967674	42.41 ug/L		99
59)	Toluene	13.22	92	1547010	54.03 ug/L		97
60)	Ethyl Methacrylate	13.59	69	816786	47.42 ug/L	#	71
61)	T-1,3-Dichloropropene	13.55	75	992845	56.58 ug/L		75
62)	1,1,2-Trichloroethane	13.71	97	556332	57.15 ug/L		97
63)	1,3-Dichloropropane	13.97	76	976467	54.43 ug/L		98
64)	Tetrachloroethene	13.57	164	526385	55.41 ug/L		92
65)	Dibromochloromethane	13.90	129	745584	55.29 ug/L		96
66)	1,2-Dibromoethane	14.15	107	608764	54.98 ug/L		90
67)	Chlorobenzene	14.57	112	1705197	51.37 ug/L		92
68)	1,1,1,2-Tetrachloroethane	14.61	131	645118	52.54 ug/L		91
69)	Ethylbenzene	14.54	106	860413	53.35 ug/L		93
70)	m-xylene & p-xylene	14.66	106	2130817	107.01 ug/L		76
71)	O-Xylene	15.07	106	1085099	51.86 ug/L		91
72)	Bromoform	15.22	173	465543	57.29 ug/L		93
73)	Styrene	15.11	104	1885525	53.67 ug/L		91
74)	Isopropylbenzene	15.35	105	2678046	51.61 ug/L		99
75)	1,2,3-Trichloropropane	16.00	75	809713	51.73 ug/L		99
76)	1,1,2,2-Tetrachloroethane	15.80	83	706067	56.64 ug/L		95
78)	Bromofluorobenzene	15.68	95	803661	41.78 ug/L	#	71
79)	T-1,4-dichloro-2-butene	15.99	53	214359	44.36 ug/L	#	68
80)	N-Propylbenzene	15.75	91	3191181	51.75 ug/L		94
81)	Pentachloroethane	16.37	167	10823	1.10 ug/l	#	1
83)	Bromobenzene	15.83	156	745768	53.49 ug/L		81
84)	1,3,5-Trimethylbenzene	15.90	105	2073911	50.44 ug/L		88
85)	2-Chlorotoluene	15.97	91	1883217	49.19 ug/L		93
86)	4-Chlorotoluene	16.14	91	1913959	49.54 ug/L		88
87)	1,2,4-Trimethylbenzene	16.34	105	2106761	52.58 ug/L		93
88)	s-Butylbenzene	16.47	105	2812892	51.66 ug/L		93
89)	tert-Butylbenzene	16.28	119	1904751	52.23 ug/L		92
90)	p-Isopropyltoluene	16.59	119	2311353	55.88 ug/L		95
91)	1,3-Dichlorobenzene	16.82	146	1305801	49.57 ug/L		92
92)	1,4-Dichlorobenzene	16.92	146	1288258	51.52 ug/L		94
93)	1,2-Dichlorobenzene	17.47	146	1233196	50.87 ug/L		97
94)	N-Butylbenzene	17.11	91	2056494	50.91 ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:05 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

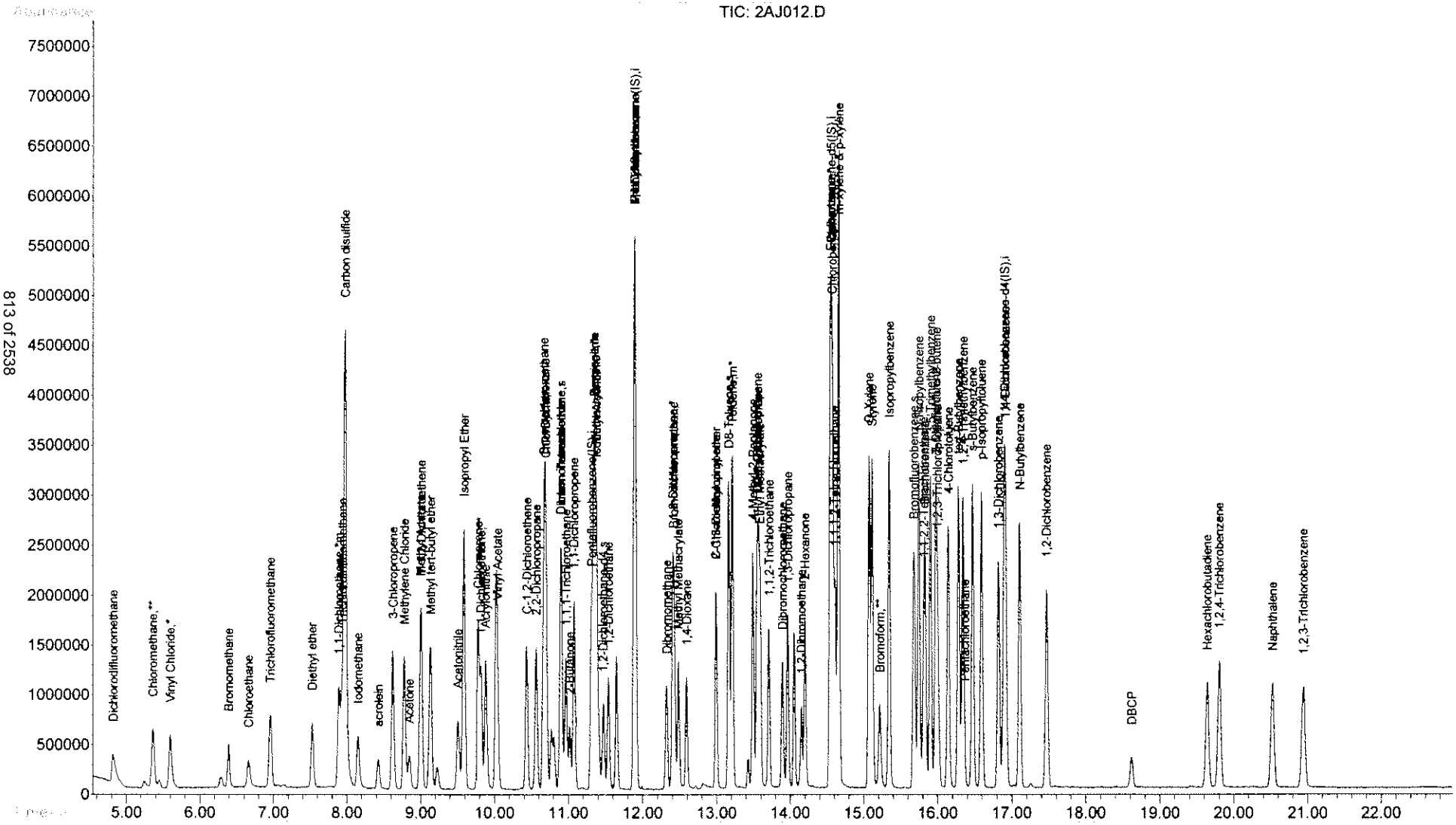
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.62	75	114431	58.34 ug/L	85
96) Naphthalene	20.52	128	1627060	52.99 ug/L	100
97) 1,2,4-Trichlorobenzene	19.80	180	741742	50.58 ug/L	91
98) Hexachlorobutadiene	19.64	225	351300	50.24 ug/L	99
99) 1,2,3-Trichlorobenzene	20.94	180	658497	52.07 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:05 2013 Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:40:23 2013
Response via : Initial Calibration

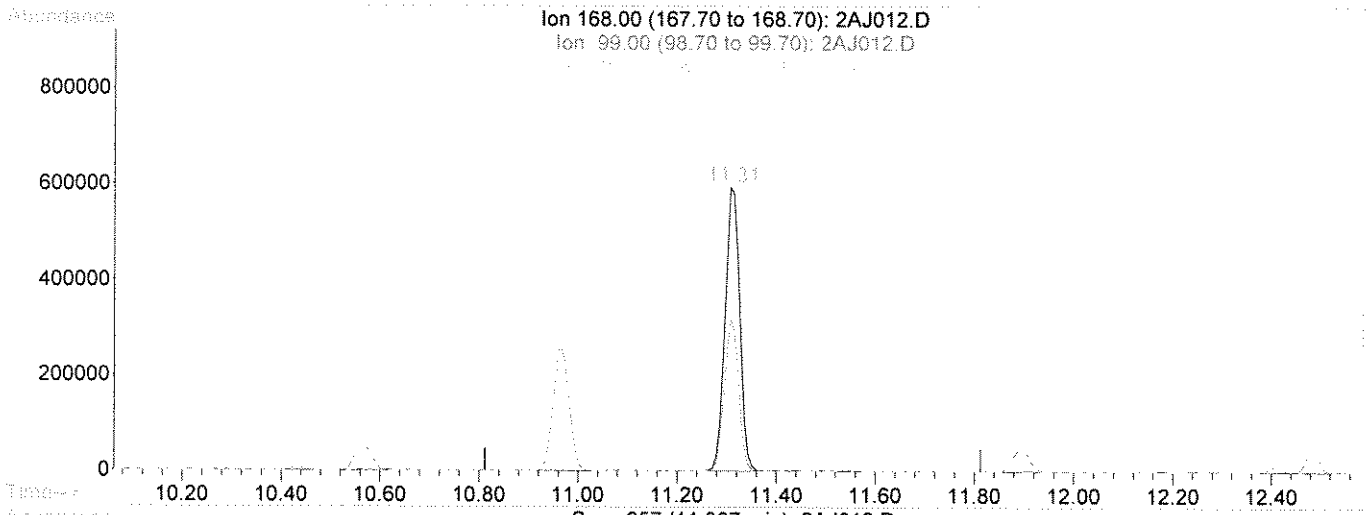


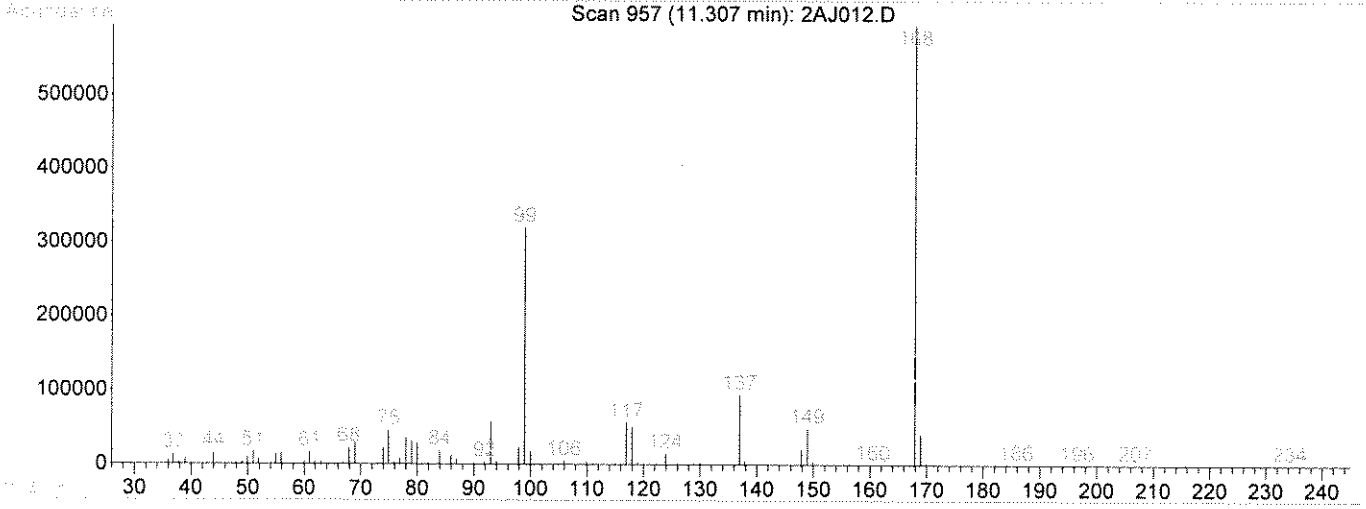
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D
Acq On : 15 Jan 2013 19:14
Sample : aa22782-scv1
Misc :
MS Integration Params: rteint.p
Quant Time: Jan 16 13:03 2013

Vial: 12
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ012.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L

response 1213163

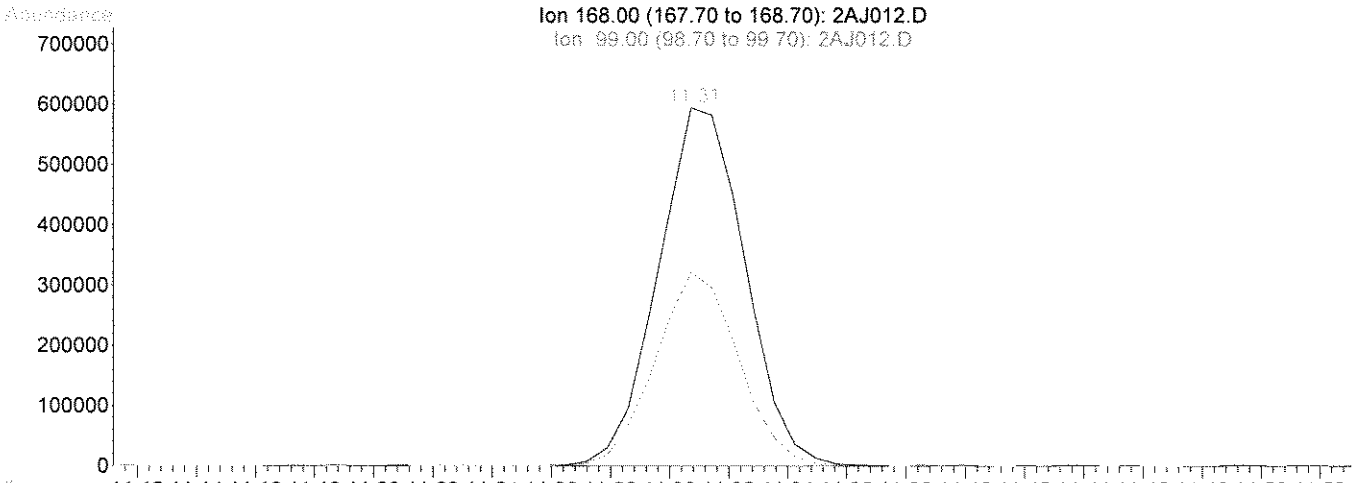
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	52.03
169.00	6.50	6.74
0.00	0.00	0.00

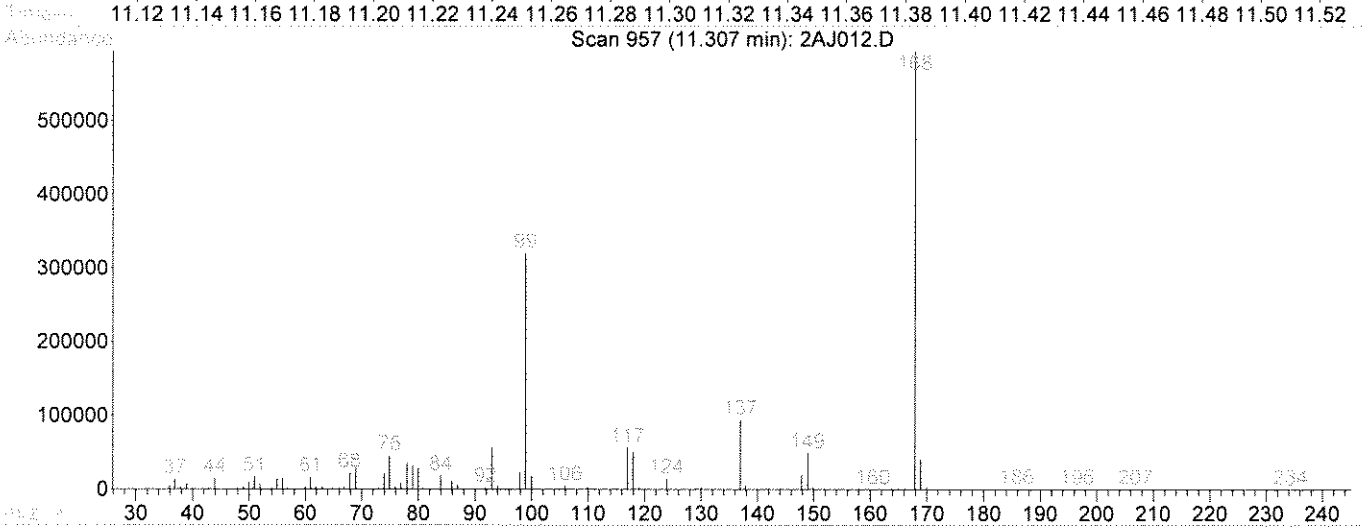
Select One:
[ ] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 1/16/13
Review by/Date: 1/31-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:03 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ012.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L m

response 1210001

Ion	Exp%	Act%
168.00	100	100
99.00	68.70	52.17
169.00	6.50	6.75
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[✓] ISTD reintegration

[ ] Other:

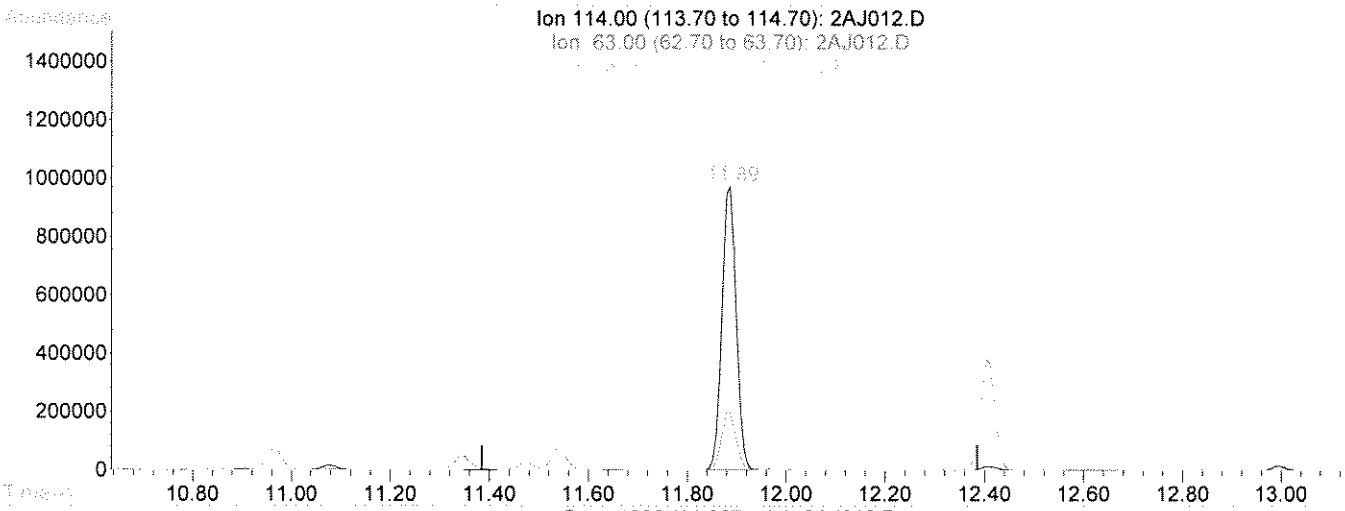
Review by/Date LA 1/16/13.

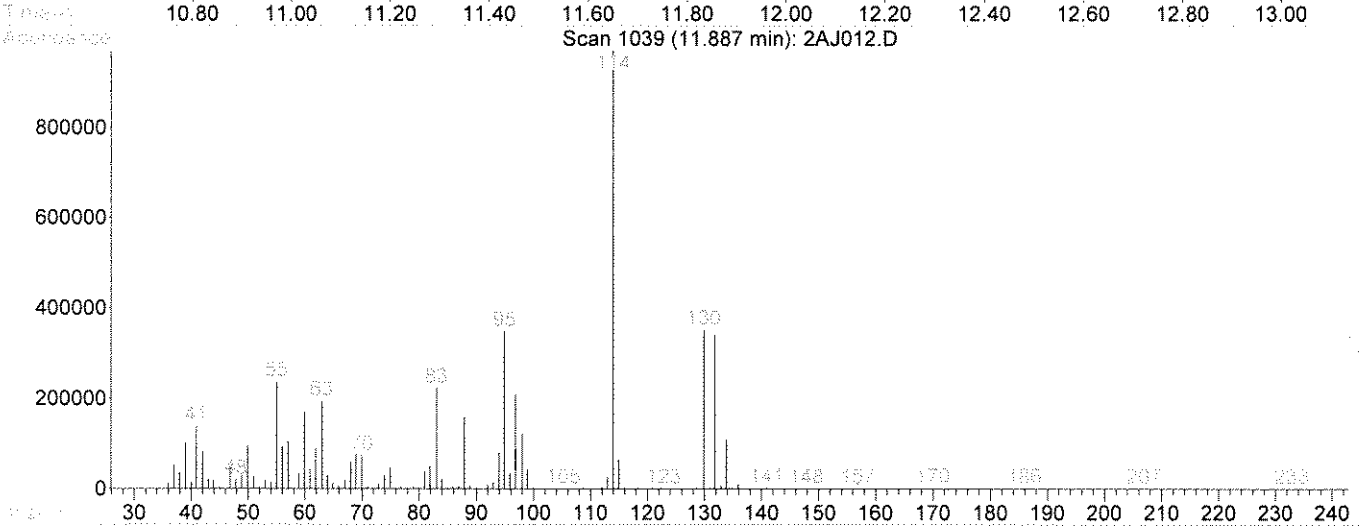
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:04 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ012.D

(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/L

response 1937145

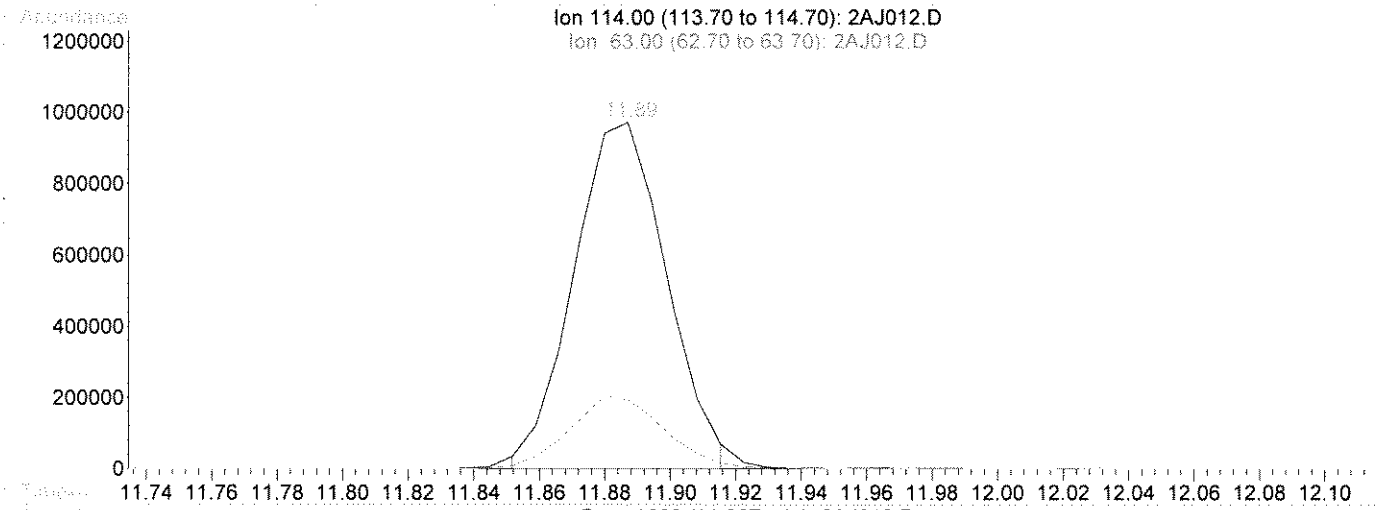
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	20.98
88.00	18.00	16.44
0.00	0.00	0.00

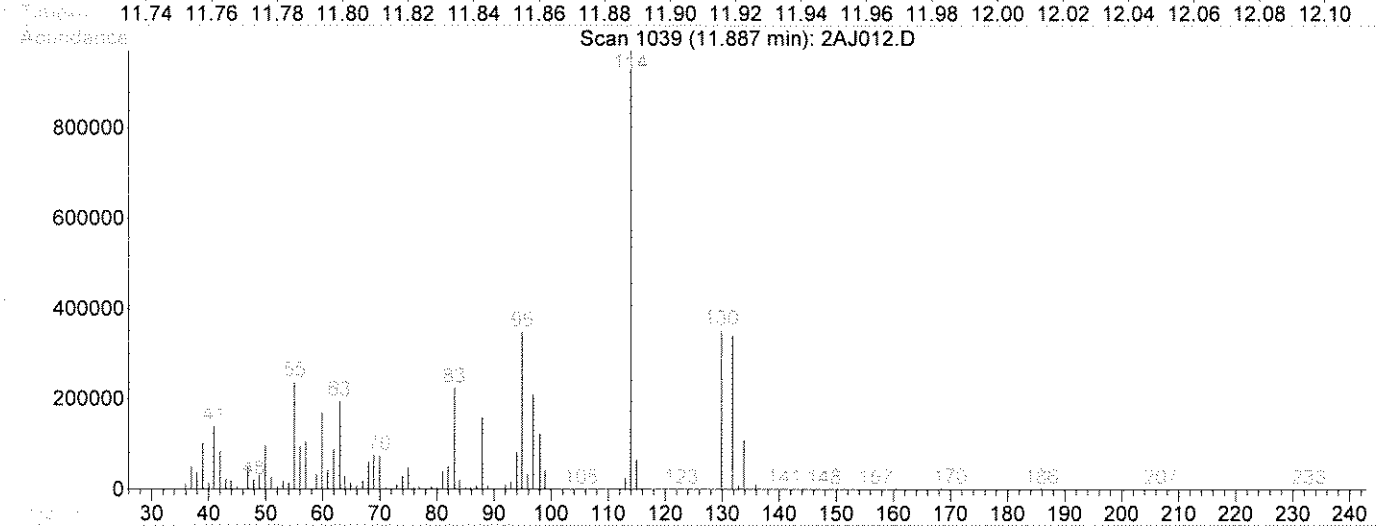
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ012.D Vial: 12
Acq On : 15 Jan 2013 19:14 Operator: kat
Sample : aa22782-scv1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:04 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ012.D

(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/L m

response 1907854

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	21.30
88.00	18.00	16.69
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: 1/16/13
Review by/Date: 1-17-13

Initial Calibration Verification - Second Source Standard

8260B DOD Extended

File Information

Filename: 2AJ013.D
Sample ID: AA22782-SCV2
Analysis Date: 1/15/2013 19:45:00
Calibration: 1301050

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Dichlorodifluoromethane	100	100	80	120	104	PASS
Chloromethane	100	89	80	120	89	PASS
Vinyl chloride	100	84	80	120	84	PASS
Bromomethane	100	88	80	120	88	PASS
Chloroethane	100	110	80	120	111	PASS
Trichlorofluoromethane	100	91	80	120	91	PASS
Freon 113	100	110	80	120	114	PASS
Acrolein	500	550	75	125	110	PASS
Acetone	250	220	80	120	87	PASS
1,1-Dichloroethene	100	120	80	120	118	PASS
3-Chloropropene	100	88	75	125	88	PASS
Acetonitrile	1000	1000	75	125	102	PASS
Iodomethane	100	110	75	125	115	PASS
Carbon disulfide	500	430	80	120	87	PASS
Methylene Chloride	100	120	80	120	117	PASS
Methyl-tert-Butyl Ether	100	120	80	120	119	PASS
Acrylonitrile	500	600	75	125	120	PASS
trans-1,2-Dichloroethene	100	120	80	120	117	PASS
Isopropyl Ether	100	120	75	125	116	PASS
cis-1,2-Dichloroethene	100	120	80	120	119	PASS
1,1-Dichloroethane	100	120	80	120	118	PASS
Vinyl acetate	100	100	75	125	104	PASS
Chloroprene	100	100	75	125	102	PASS
2-Butanone	250	260	80	120	102	PASS
Propionitrile	1000	1000	75	125	102	PASS
2,2-Dichloropropane	100	110	80	120	112	PASS
Methacrylonitrile	100	99	75	125	99	PASS
Chloroform	100	110	80	120	112	PASS
Bromochloromethane	100	120	80	120	115	PASS
1,1,1-Trichloroethane	100	110	80	120	113	PASS
1,1-Dichloropropene	100	120	80	120	120	PASS
Diethyl ether	100	120	75	125	117	PASS
Methyl acetate	100	91	80	120	91	PASS
Cyclohexane	100	110	80	120	108	PASS
Methyl cyclohexane	100	110	80	120	108	PASS
Carbon Tetrachloride	100	120	80	120	116	PASS
1,2-Dichloroethane	100	120	80	120	119	PASS
Benzene	100	120	80	120	116	PASS
Isobutyl alcohol	1000	890	75	125	89	PASS
Trichloroethene	100	120	80	120	118	PASS
1,2-Dichloropropane	100	120	80	120	116	PASS
Methyl Methacrylate	100	110	75	125	110	PASS
1,4-Dioxane	1000	1000	75	125	103	PASS
Bromodichloromethane	100	120	80	120	119	PASS
Dibromomethane	100	120	80	120	115	PASS
4-Methyl-2-pentanone	250	270	80	120	106	PASS
2-Chloroethyl Vinyl Ether	100	93	80	120	93	PASS
2-Hexanone	250	250	80	120	99	PASS
cis-1,3-Dichloropropene	100	120	80	120	115	PASS
Toluene	100	120	80	120	119	PASS
Ethyl Methacrylate	100	100	75	125	103	PASS
trans-1,3-Dichloropropene	100	120	80	120	119	PASS
1,1,2-Trichloroethane	100	120	80	120	119	PASS
1,3-Dichloropropane	100	120	80	120	117	PASS

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 2AJ013.D
Sample ID: AA22782-SCV2
Analysis Date: 1/15/2013 19:45:00
Calibration: 1301050

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Tetrachloroethene	100	120	80	120	117	PASS
Dibromochloromethane	100	120	80	120	116	PASS
1,2-Dibromoethane	100	120	80	120	119	PASS
Chlorobenzene	100	110	80	120	113	PASS
1,1,1,2-Tetrachloroethane	100	120	80	120	117	PASS
Ethylbenzene	100	120	80	120	118	PASS
m,p-Xylenes	200	220	80	120	111	PASS
o-Xylene	100	110	80	120	114	PASS
Bromoform	100	120	80	120	118	PASS
Styrene	100	120	80	120	118	PASS
Isopropylbenzene	100	110	80	120	114	PASS
1,2,3-Trichloropropane	100	110	80	120	113	PASS
1,1,2,2-Tetrachloroethane	100	110	80	120	109	PASS
trans-1,4-Dichloro-2-butene	100	96	75	125	96	PASS
n-Propyl Benzene	100	110	80	120	114	PASS
Bromobenzene	100	110	80	120	111	PASS
1,3,5-Trimethylbenzene	100	110	80	120	107	PASS
2-Chlorotoluene	100	100	80	120	102	PASS
4-Chlorotoluene	100	100	80	120	105	PASS
1,2,4-Trichlorobenzene	100	110	80	120	112	PASS
sec-Butylbenzene	100	110	80	120	108	PASS
tert-Butylbenzene	100	110	80	120	109	PASS
4-Isopropyltoluene	100	120	80	120	119	PASS
1,3-Dichlorobenzene	100	110	80	120	106	PASS
1,4-Dichlorobenzene	100	110	80	120	110	PASS
1,2-Dichlorobenzene	100	110	80	120	108	PASS
n-Butyl Benzene	100	110	80	120	109	PASS
1,2-Dibromo-3-chloropropane	100	120	80	120	120	PASS
Naphthalene	100	110	80	120	113	PASS
1,2,4-Trimethylbenzene	100	110	80	120	111	PASS
Hexachlorobutadiene	100	110	80	120	113	PASS
1,2,3-Trichlorobenzene	100	110	80	120	114	PASS
Dibromofluoromethane	50.0	41	80	120	81	PASS
1,2-Dichloroethane-d4	50.0	46	80	120	91	PASS
Toluene-d8	50.0	44	80	120	89	PASS
4-Bromofluorobenzene	50.0	43	80	120	87	PASS
Pentafluorobenzene	50.0	50	50	200	96	PASS
1,4-Difluorobenzene	50.0	50	50	200	96	PASS
Chlorobenzene-d5	50.0	50	50	200	96	PASS
1,4-Dichlorobenzene-d4	50.0	50	50	200	99	PASS

Signature

1-16-13
Date

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:06:59 2013
Response via : Multiple Level Calibration

LG 1/16/13

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	96	0.00
2		Dichlorodifluoromethane	0.850	0.887	-4.4	98	0.00
3	**	Chloromethane	1.068	0.954	10.7	88	0.00
4	*	Vinyl Chloride	1.060	0.892	15.8	82	0.00
5		Bromomethane	0.442	0.391	11.5	102	0.00
6		Chloroethane	0.376	0.419	-11.4	128	0.01
7		Trichlorofluoromethane	0.804	0.735	8.6	82	0.01
8		Trichlorotrifluoroethane	0.380	0.432	-13.7	109	0.00
9		acrolein	0.060	0.033#	45.0#	53	0.00
10		Acetone	0.209	0.456	-118.2#	208#	0.00
11	*m	1,1-Dichloroethene	0.294	0.347	-18.0	113	0.00
12		3-Chloropropene	0.389	0.344	11.6	90	0.00
13		Acetonitrile	0.082	0.083#	-1.2	98	0.00
14		Iodomethane	0.722	0.829	-14.8	94	0.00
15		Carbon disulfide	1.615	6.998	-333.3#	440#	0.00
16		Methylene Chloride	0.563	0.658	-16.9	115	0.00
17		Methyl tert-butyl ether	1.072	1.274	-18.8	101	0.00
18		Acrylonitrile	0.177	0.106	40.1#	58	0.00
19		T-1,2-Dichloroethene	0.516	0.605	-17.2	109	0.00
20		Isopropyl Ether	1.910	2.210	-15.7	98	0.00
21		C-1,2-Dichloroethene	0.533	0.636	-19.3	112	0.00
22	**	1,1-Dichloroethane	0.977	1.152	-17.9	112	0.00
23		Vinyl Acetate	1.826	1.900	-4.1	100	0.00
24		Chloroprene	1.046	1.071	-2.4	103	0.00
25		2-Butanone	0.054	0.139	-157.4#	236#	0.00
26		Propionitrile	0.070	0.071#	-1.4	114	0.00
27		2,2-Dichloropropane	0.743	0.830	-11.7	110	0.00
28		Methacrylonitrile	0.194	0.019#	90.2#	11#	0.00
29	*	Chloroform	0.857	0.962	-12.3	108	0.00
30	s	Dibromofluoromethane	0.634	0.258	59.3#	40#	0.00
31		Dibromofluoromethane	0.634	0.258	59.3#	40#	0.00
32		Bromochloromethane	0.281	0.323	-14.9	112	0.00
33		1,1,1-Trichloroethane	0.656	0.740	-12.8	105	0.00
34		1,1-Dichloropropene	0.687	0.823	-19.8	112	0.00
35		Diethyl ether	0.335	0.393	-17.3	117	0.00
36		Methyl Acetate	0.073	0.066#	9.6	89	0.00
37		Cyclohexane	1.007	1.091	-8.3	111	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	96	0.00
39		Methyl Cyclohexane	0.530	0.573	-8.1	110	0.00
40		Carbon Tetrachloride	0.363	0.419	-15.4	105	0.00
41		1,2-Dichloroethane	0.423	0.502	-18.7	111	0.00
42	m	Benzene	1.107	1.289	-16.4	112	0.00
43		Isobutyl Alcohol	0.029	0.013#	55.2#	42#	-0.02
44	s	1,2-Dichloroethane-d4	0.420	0.192	54.3#	45#	0.00
45		1,2-Dichloroethane-d4	0.420	0.192	54.3#	45#	0.00
46	m	Trichloroethene	0.333	0.392	-17.7	110	0.00
47	*	1,2-Dichloropropane	0.344	0.400	-16.3	111	0.00
48		Methyl Methacrylate	0.096	0.106	-10.4	99	0.00
49		1,4-Dioxane	0.004	0.002#	50.0#	49#	0.00
50		Bromodichloromethane	0.416	0.493	-18.5	112	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:06:59 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.201	0.232	-15.4	105	0.00
52		4-Methyl-2-Pentanone	0.044	0.118	-168.2#	240#	0.00
53		2-Chloroethyl vinyl ether	0.006	0.005#	16.7	97	0.00
54		2-Hexanone	0.309	0.764	-147.2#	239#	0.00
55		C-1,3-Dichloropropene	0.558	0.644	-15.4	109	0.00
56	s	D8-Toluene	1.216	0.539	55.7#	44#	0.00
57		D8-Toluene	1.216	0.539	55.7#	44#	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	96	0.00
59	m*	Toluene	0.853	1.018	-19.3	112	0.00
60		Ethyl Methacrylate	0.513	0.531	-3.5	97	0.00
61		T-1,3-Dichloropropene	0.523	0.622	-18.9	114	0.00
62		1,1,2-Trichloroethane	0.290	0.344	-18.6	111	0.00
63		1,3-Dichloropropane	0.534	0.624	-16.9	109	0.00
64		Tetrachloroethene	0.283	0.332	-17.3	108	0.00
65		Dibromochloromethane	0.402	0.467	-16.2	108	0.00
66		1,2-Dibromoethane	0.330	0.393	-19.1	109	0.00
67	**m	Chlorobenzene	0.989	1.116	-12.8	109	0.00
68		1,1,1,2-Tetrachloroethane	0.366	0.427	-16.7	110	0.00
69	*	Ethylbenzene	0.480	0.569	-18.5	111	0.00
70		m-xylene & p-xylene	0.593	0.657	-10.8	106	0.00
71		O-Xylene	0.623	0.713	-14.4	108	0.00
72	**	Bromoform	0.242	0.285	-17.8	102	0.00
73		Styrene	1.046	1.234	-18.0	111	0.00
74		Isopropylbenzene	1.546	1.756	-13.6	107	0.00
75		1,2,3-Trichloropropane	0.466	0.526	-12.9	106	0.00
76	**	1,1,2,2-Tetrachloroethane	0.371	0.405	-9.2	99	0.00
77	s	Bromofluorobenzene	0.573	0.249	56.5#	44#	0.00
78		Bromofluorobenzene	0.573	0.249	56.5#	44#	0.00
79		T-1,4-dichloro-2-butene	0.144	0.139	3.5	91	0.00
80		N-Propylbenzene	1.837	2.097	-14.2	107	0.00
81		Pentachloroethane	0.293	0.006#	98.0#	2#	0.00
82	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	99	0.00
83		Bromobenzene	0.873	0.965	-10.5	111	0.00
84		1,3,5-Trimethylbenzene	2.574	2.748	-6.8	109	0.00
85		2-Chlorotoluene	2.397	2.443	-1.9	104	0.00
86		4-Chlorotoluene	2.419	2.532	-4.7	107	0.00
87		1,2,4-Trimethylbenzene	2.509	2.791	-11.2	113	0.00
88		s-Butylbenzene	3.409	3.698	-8.5	106	0.00
89		tert-Butylbenzene	2.283	2.489	-9.0	107	0.00
90		p-Isopropyltoluene	2.590	3.077	-18.8	117	0.00
91		1,3-Dichlorobenzene	1.649	1.749	-6.1	107	0.00
92		1,4-Dichlorobenzene	1.566	1.722	-10.0	109	0.00
93		1,2-Dichlorobenzene	1.518	1.645	-8.4	108	0.00
94		N-Butylbenzene	2.529	2.757	-9.0	108	0.00
95		DBCP	0.123	0.147	-19.5	113	0.00
96		Naphthalene	1.922	2.177	-13.3	111	0.00
97		1,2,4-Trichlorobenzene	0.918	1.029	-12.1	110	0.00
98		Hexachlorobutadiene	0.438	0.493	-12.6	110	0.00
99		1,2,3-Trichlorobenzene	0.792	0.901	-13.8	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 15:07 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 1/16/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1177090m	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1815003m	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1563298m	50.00 ug/L	0.00
82) 1,4-Dichlorobenzene-d4(IS)	16.89	152	792048	50.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	606836	40.67 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 81.34%		
44) 1,2-Dichloroethane-d4	11.47	65	696638	45.64 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 91.28%		
56) D8-Toluene	13.16	98	1954918	44.29 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 88.58%		
77) Bromofluorobenzene	15.67	95	778873	43.48 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 86.96%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.82	85	2087709	104.38 ug/L	99
3) Chloromethane	5.36	50	2246056	89.36 ug/L	98
4) Vinyl Chloride	5.60	62	2100061	84.13 ug/L	98
5) Bromomethane	6.39	94	919479	88.27 ug/L	99
6) Chloroethane	6.65	64	987131	111.38 ug/L	99
7) Trichlorofluoromethane	6.95	101	1729665	91.43 ug/L	97
8) Trichlorotrifluoroethane	7.93	101	1017834	113.85 ug/L	86
9) acrolein	8.43	56	772650	548.10 ug/L	99
10) Acetone	8.86	43	1072978	217.87 ug/L	88
11) 1,1-Dichloroethene	7.89	96	817466	118.27 ug/L	81
12) 3-Chloropropene	8.62	76	810038	88.40 ug/L	77
13) Acetonitrile	9.51	41	1960103	1015.97 ug/L	94
14) Iodomethane	8.16	142	1950855	114.76 ug/L	88
15) Carbon disulfide	7.97	76	16474933	433.38 ug/L	99
16) Methylene Chloride	8.78	84	1549143	116.94 ug/L	94
17) Methyl tert-butyl ether	9.14	73	2999672	118.85 ug/L	98
18) Acrylonitrile	9.89	53	2499139	599.17 ug/L	96
19) T-1,2-Dichloroethene	9.01	96	1423241	117.10 ug/L	95
20) Isopropyl Ether	9.59	45	5202843	115.71 ug/L	94
21) C-1,2-Dichloroethene	10.43	96	1496748	119.26 ug/L	97
22) 1,1-Dichloroethane	9.82	63	2711599	117.88 ug/L	99
23) Vinyl Acetate	10.05	43	4472036	104.01 ug/L	99
24) Chloroprene	9.78	53	2520697	102.32 ug/L	78
25) 2-Butanone	11.02	72	326562	255.77 ug/L #	83
26) Propionitrile	11.36	54	1682747	1017.90 ug/L	100
27) 2,2-Dichloropropane	10.57	77	1953397	111.61 ug/L	98
28) Methacrylonitrile	11.37	67	449804	98.53 ug/L	69
29) Chloroform	10.70	83	2264166	112.24 ug/L	91
31) Dibromofluoromethane	10.91	113	606836	40.67 ug/L	100
32) Bromochloromethane	10.67	128	760207	115.00 ug/L	79
33) 1,1,1-Trichloroethane	10.96	97	1742171	112.89 ug/L	97
34) 1,1-Dichloropropene	11.08	75	1936950	119.70 ug/L	91
35) Diethyl ether	7.53	59	924060	117.04 ug/l	93
36) Methyl Acetate	9.00	74	156446	90.90 ug/l	71
37) Cyclohexane	10.68	56	2567850	108.32 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 15:07 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.90	55	2081377	108.10 ug/l #	83
40) Carbon Tetrachloride	10.89	117	1522188	115.54 ug/L	96
41) 1,2-Dichloroethane	11.54	62	1822880	118.76 ug/L	99
42) Benzene	11.35	78	4678690	116.40 ug/L	99
43) Isobutyl Alcohol	11.39	43	945715	893.15 ug/L	90
45) 1,2-Dichloroethane-d4	11.47	65	696638	45.64 ug/l	94
46) Trichloroethene	11.89	130	1421259	117.62 ug/L	84
47) 1,2-Dichloropropane	12.41	63	1453019	116.22 ug/L	85
48) Methyl Methacrylate	12.48	100	384102	110.34 ug/L #	1
49) 1,4-Dioxane	12.60	88	134252	1027.97 ug/L #	72
50) Bromodichloromethane	12.43	83	1791282	118.51 ug/L	100
51) Dibromomethane	12.32	93	841430	115.26 ug/L	88
52) 4-Methyl-2-Pentanone	13.50	100	428370	265.21 ug/L	88
53) 2-Chloroethyl vinyl ether	12.99	63	18646	93.04 ug/L	68
54) 2-Hexanone	14.20	43	2774972	247.44 ug/L #	94
55) C-1,3-Dichloropropene	12.99	75	2337005	115.38 ug/L	76
57) D8-Toluene	13.16	98	1954918	44.29 ug/L	99
59) Toluene	13.21	92	3181787	119.32 ug/L	95
60) Ethyl Methacrylate	13.59	69	1659602	103.47 ug/L	72
61) T-1,3-Dichloropropene	13.55	75	1944953	119.02 ug/L	74
62) 1,1,2-Trichloroethane	13.71	97	1076541	118.75 ug/L	97
63) 1,3-Dichloropropane	13.96	76	1949666	116.70 ug/L	99
64) Tetrachloroethene	13.57	164	1037015	117.22 ug/L	92
65) Dibromochloromethane	13.89	129	1459663	116.23 ug/L	96
66) 1,2-Dibromoethane	14.15	107	1228580	119.15 ug/L	91
67) Chlorobenzene	14.58	112	3488200	112.83 ug/L	92
68) 1,1,1,2-Tetrachloroethane	14.61	131	1336046	116.84 ug/L	91
69) Ethylbenzene	14.54	106	1779523	118.48 ug/L	91
70) m-xylene & p-xylene	14.65	106	4105225	221.38 ug/L	74
71) O-Xylene	15.07	106	2230030	114.45 ug/L	91
72) Bromoform	15.21	173	891136	117.76 ug/L	92
73) Styrene	15.11	104	3857437	117.91 ug/L	90
74) Isopropylbenzene	15.34	105	5490218	113.60 ug/L	97
75) 1,2,3-Trichloropropane	16.01	75	1644743	112.83 ug/L	100
76) 1,1,2,2-Tetrachloroethane	15.81	83	1266133	109.07 ug/L	97
78) Bromofluorobenzene	15.67	95	778873	43.48 ug/L #	46
79) T-1,4-dichloro-2-butene	15.99	53	433566	96.33 ug/L #	67
80) N-Propylbenzene	15.74	91	6556114	114.17 ug/L	92
81) Pentachloroethane	16.37	167	19854	2.17 ug/l #	8
83) Bromobenzene	15.83	156	1528319	110.52 ug/L	81
84) 1,3,5-Trimethylbenzene	15.90	105	4352806	106.74 ug/L	88
85) 2-Chlorotoluene	15.98	91	3869672	101.91 ug/L	92
86) 4-Chlorotoluene	16.14	91	4010532	104.67 ug/L	88
87) 1,2,4-Trimethylbenzene	16.34	105	4421548	111.26 ug/L	92
88) s-Butylbenzene	16.47	105	5858212	108.48 ug/L	92
89) tert-Butylbenzene	16.28	119	3943331	109.03 ug/L	93
90) p-Isopropyltoluene	16.59	119	4873762	118.80 ug/L	96
91) 1,3-Dichlorobenzene	16.82	146	2770423	106.05 ug/L	92
92) 1,4-Dichlorobenzene	16.92	146	2727983	109.99 ug/L	93
93) 1,2-Dichlorobenzene	17.47	146	2605796	108.39 ug/L	96
94) N-Butylbenzene	17.10	91	4367500	109.02 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 15:07 2013 Quant Results File: W1301050.RES

Quant Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) DBCP	18.62	75	233353	119.96 ug/L	82
96) Naphthalene	20.52	128	3448580	113.25 ug/L	100
97) 1,2,4-Trichlorobenzene	19.80	180	1629437	112.03 ug/L	91
98) Hexachlorobutadiene	19.64	225	780831	112.59 ug/L	98
99) 1,2,3-Trichlorobenzene	20.94	180	1426485	113.73 ug/L	93

(#) = qualifier out of range (m) = manual integration

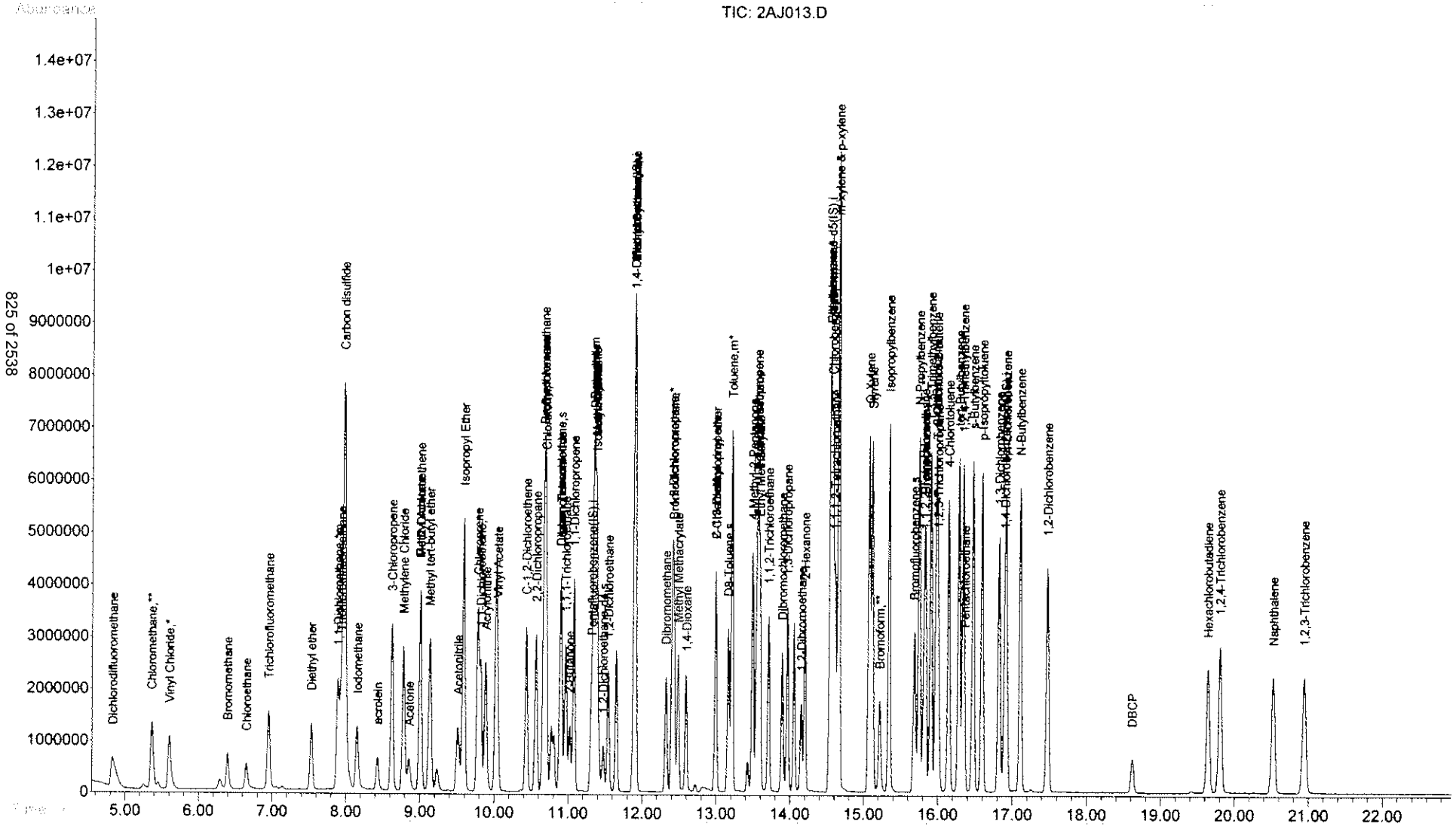
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D
Acq On : 15 Jan 2013 19:45
Sample : aa22782-scv2
Misc :
MS Integration Params: rteint.p
Quant Time: Jan 16 15:07 2013

Vial: 13
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: W1301050.RES

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 15:06:59 2013
Response via : Initial Calibration

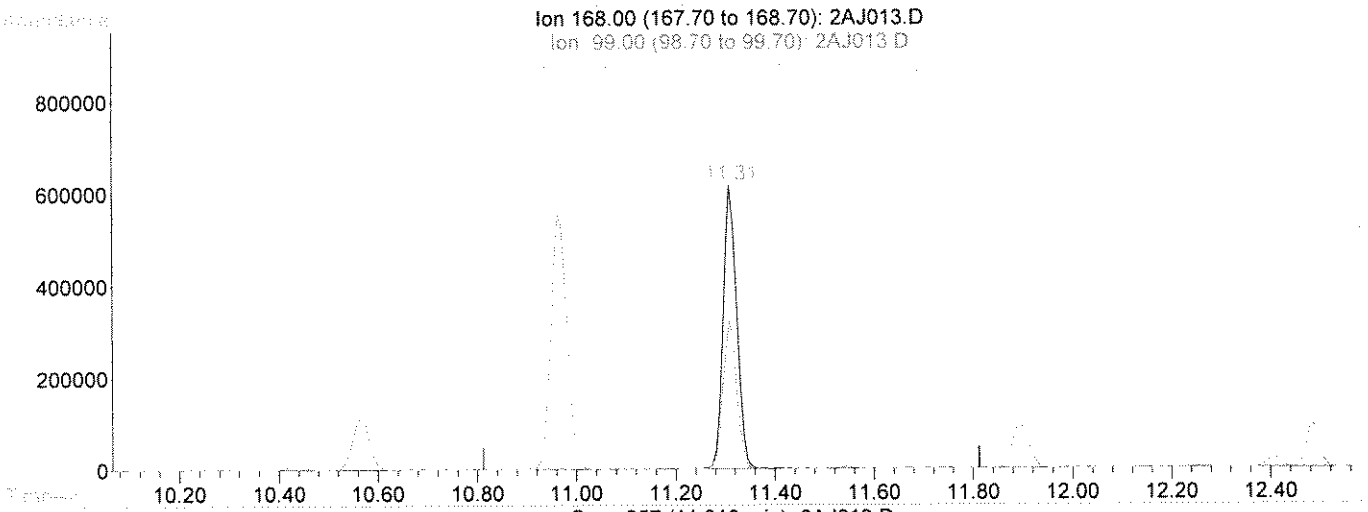


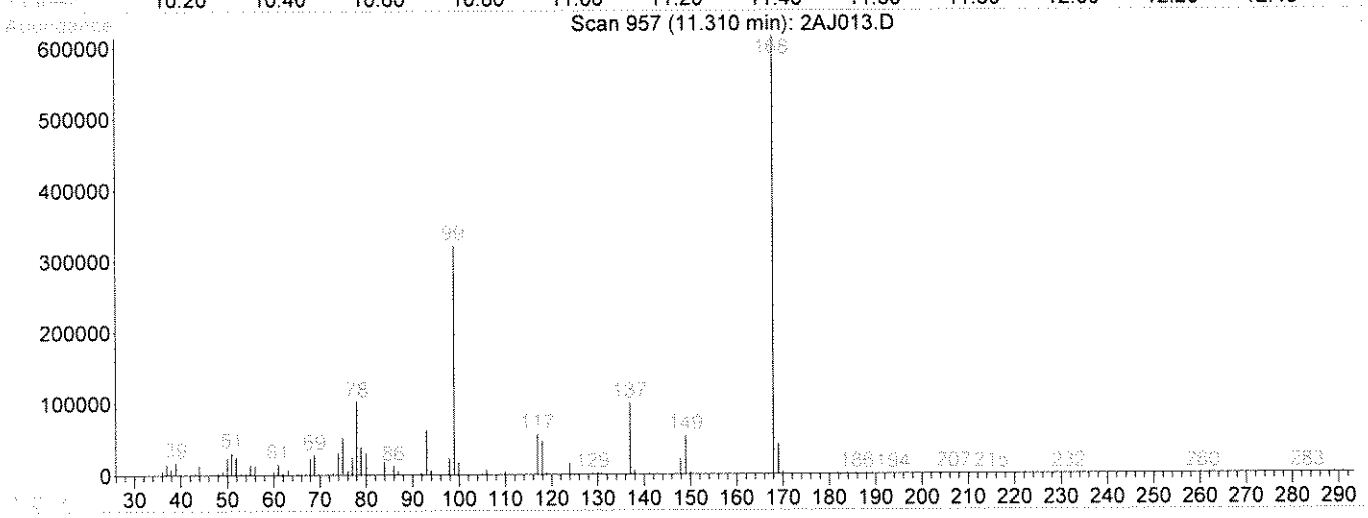
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D
Acq On : 15 Jan 2013 19:45
Sample : aa22782-scv2
Misc :
MS Integration Params: rteint.p
Quant Time: Jan 16 13:06 2013

Vial: 13
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ013.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L

response 1185986

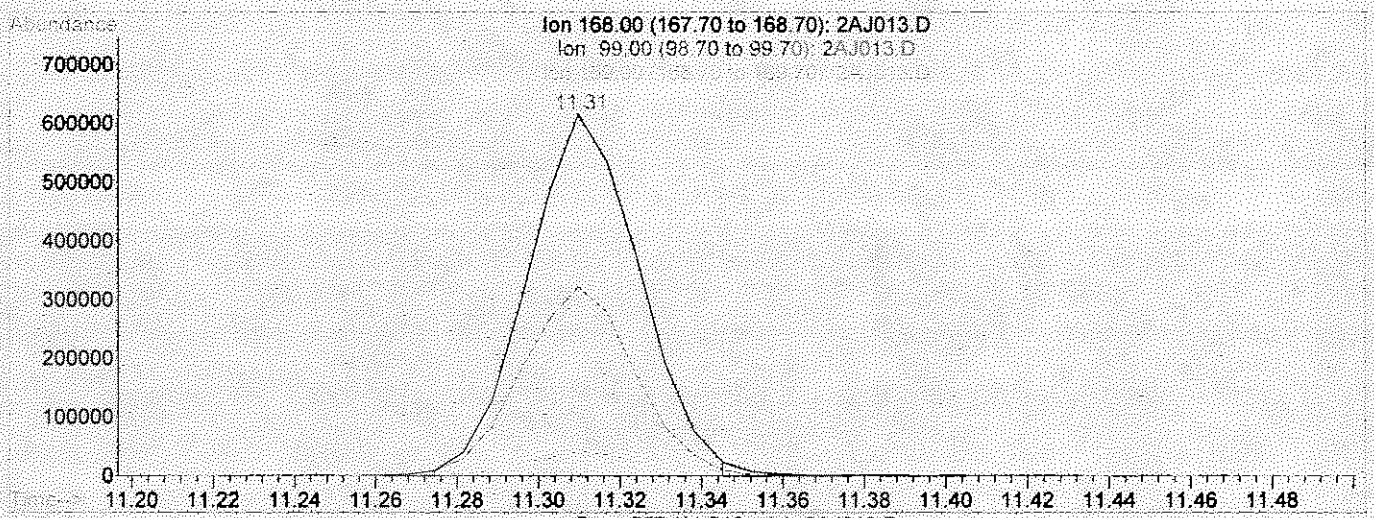
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	52.91
169.00	6.50	6.77
0.00	0.00	0.00

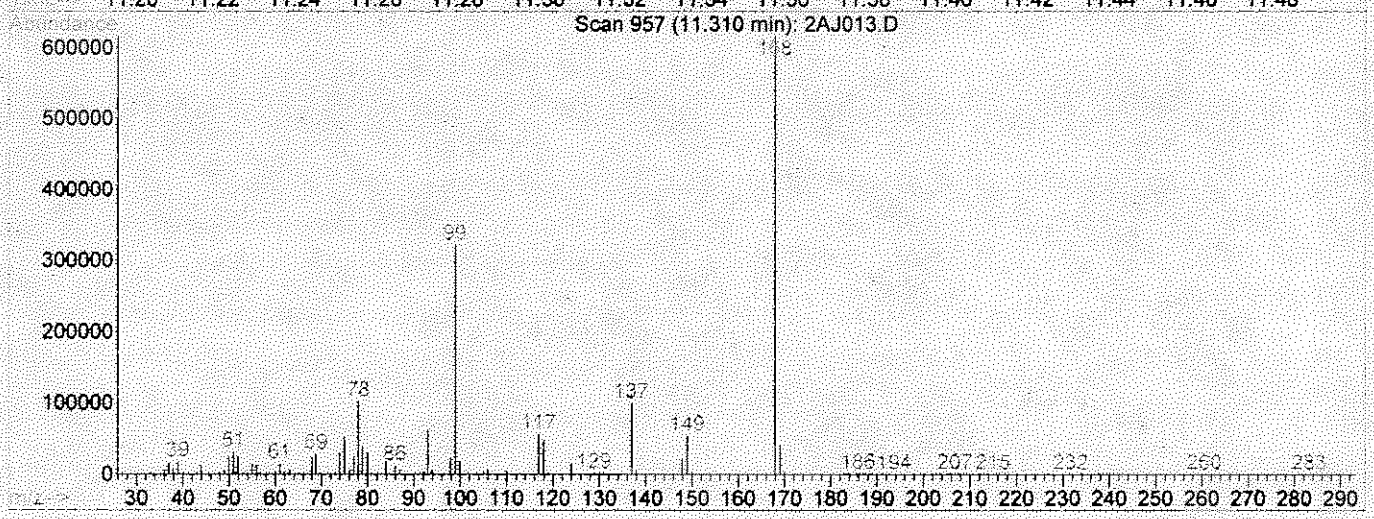
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:06 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ013.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/L m

response 1177090

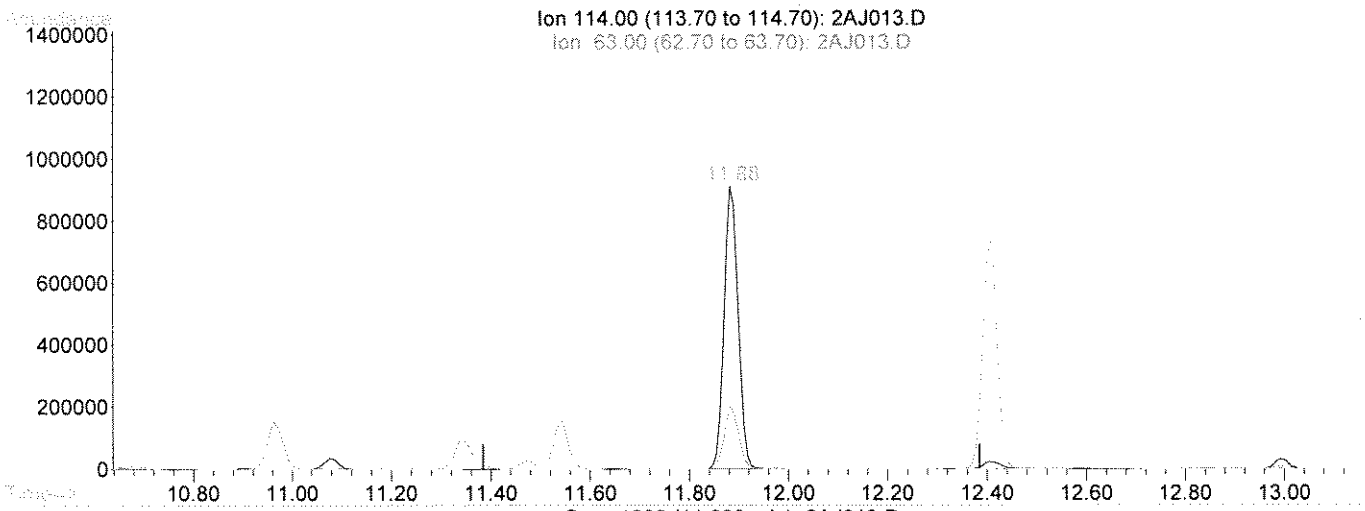
Ion	Exp%	Act%
168.00	100	100
99.00	68.70	53.31
169.00	6.50	6.82
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[✓] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:07 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration



TIC: 2AJ013.D

(38) 1,4-Difluorobenzene(IS) (i)

11.88min 50.00ug/L

response 1811549

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	22.69
88.00	18.00	16.06
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

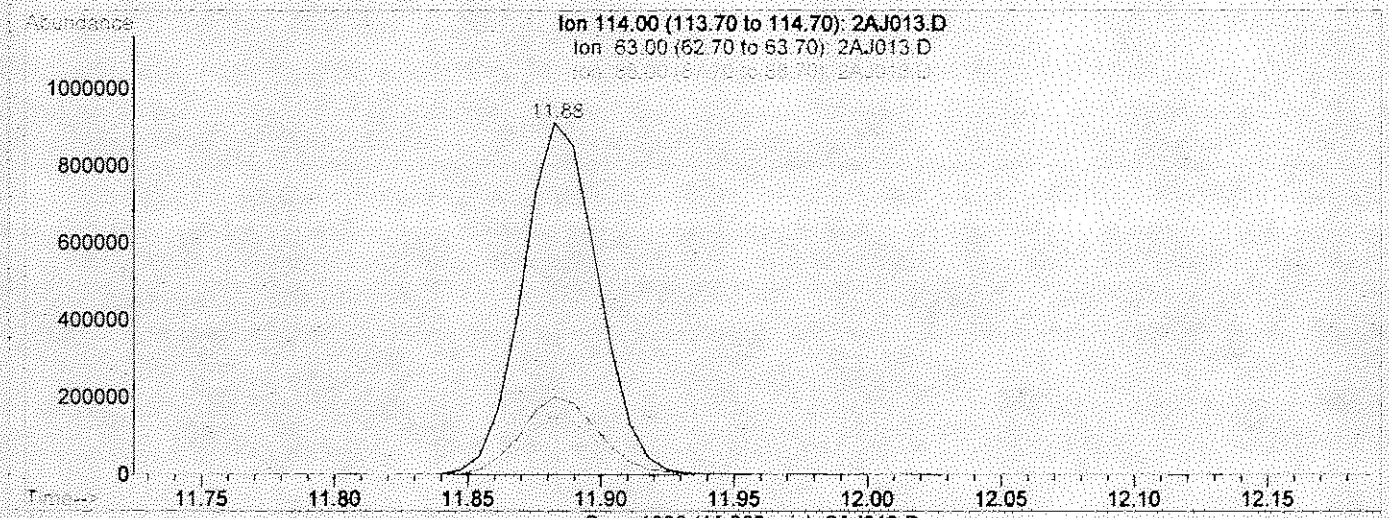
Review by/Date LG 1/16/13

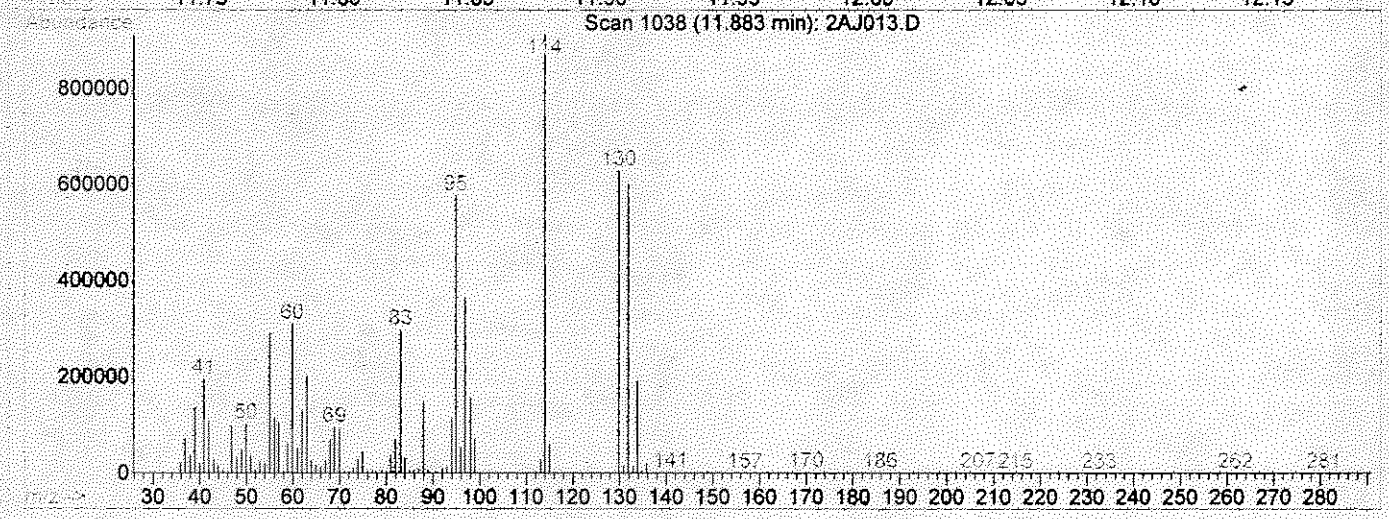
Review by/Date: RP 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:07 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ013.D

(38) 1,4-Difluorobenzene(IS) (I)

11.88min 50.00ug/L m

response 1815003

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	22.65
88.00	18.00	16.02
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[✓] ISTD reintegration

[ ] Other:

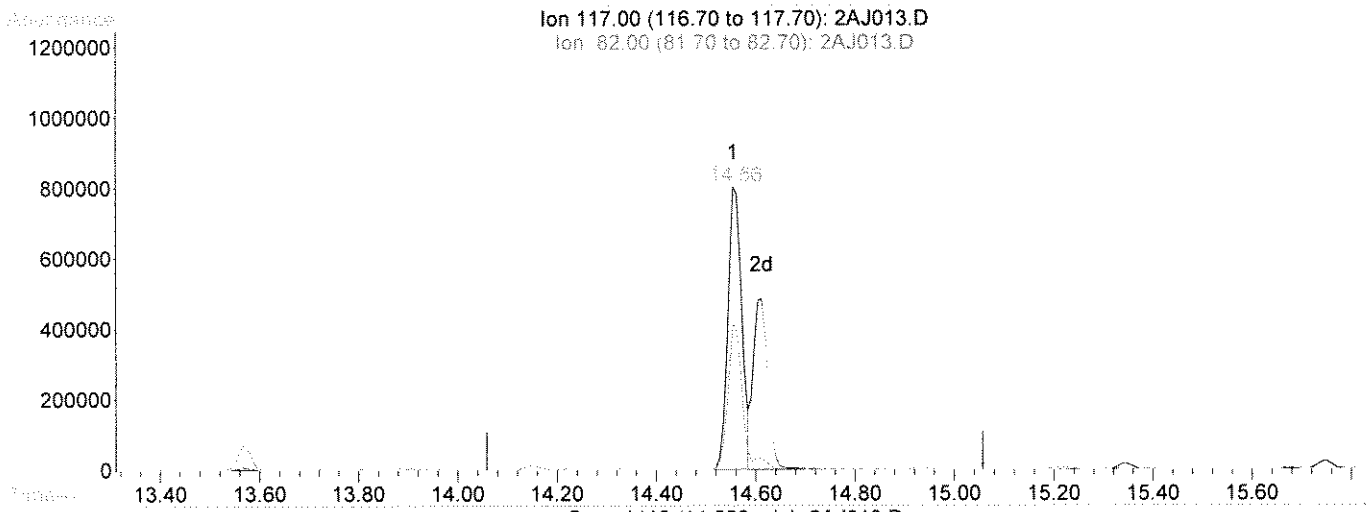
Review by/Date LG 1/16/13

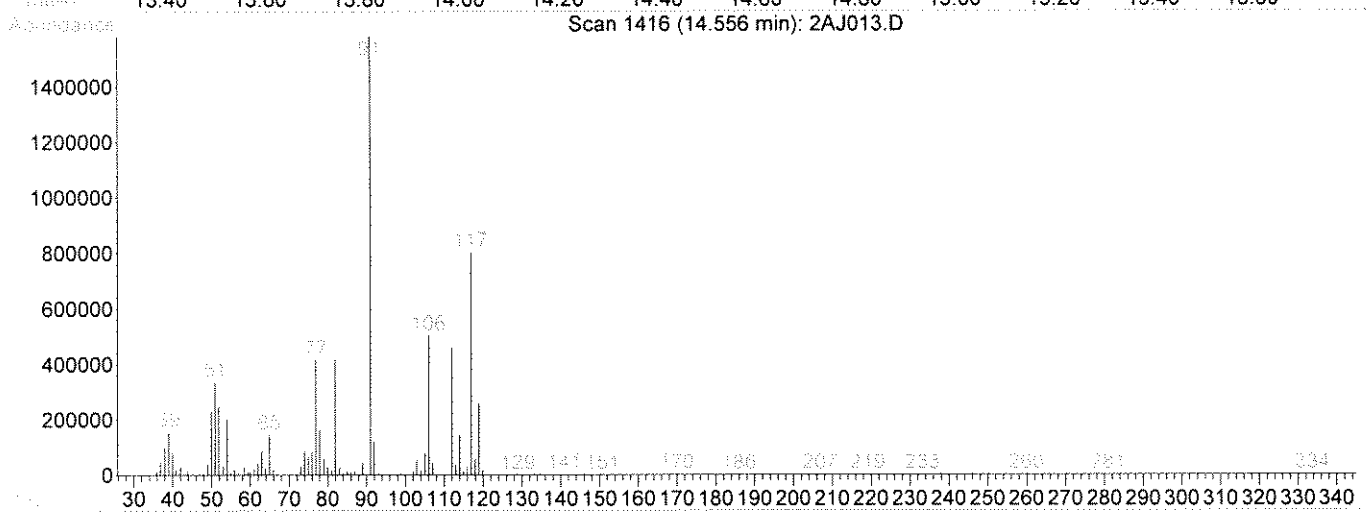
Review by/Date: KB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ013.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/L

response 1559951

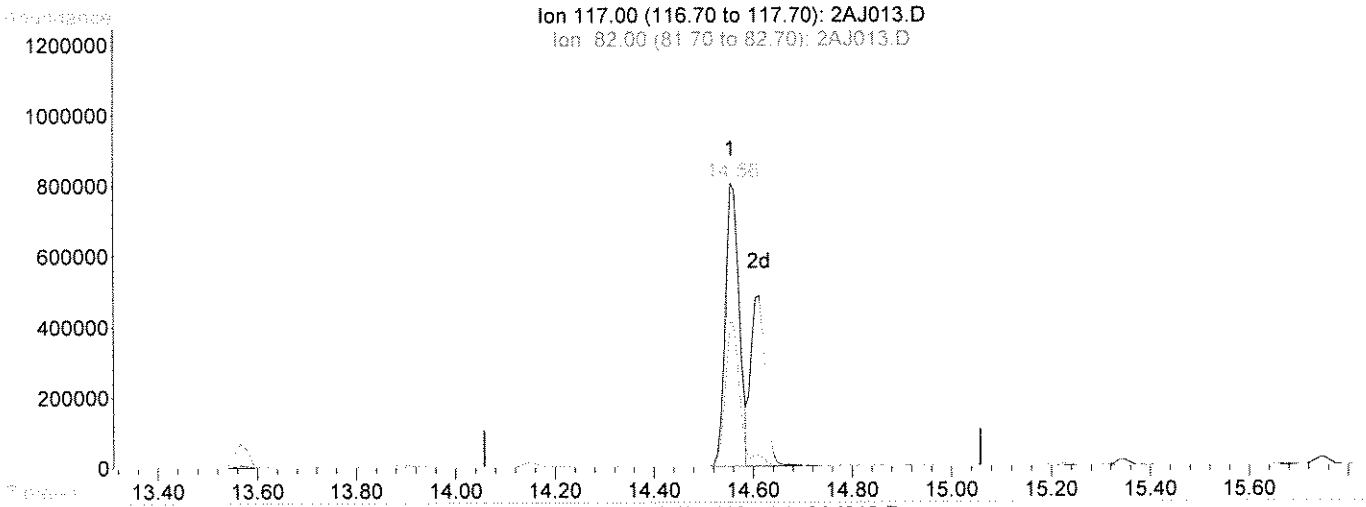
Ion	Exp%	Act%
117.00	100	100
82.00	60.00	51.50
119.00	32.80	33.73
0.00	0.00	0.00

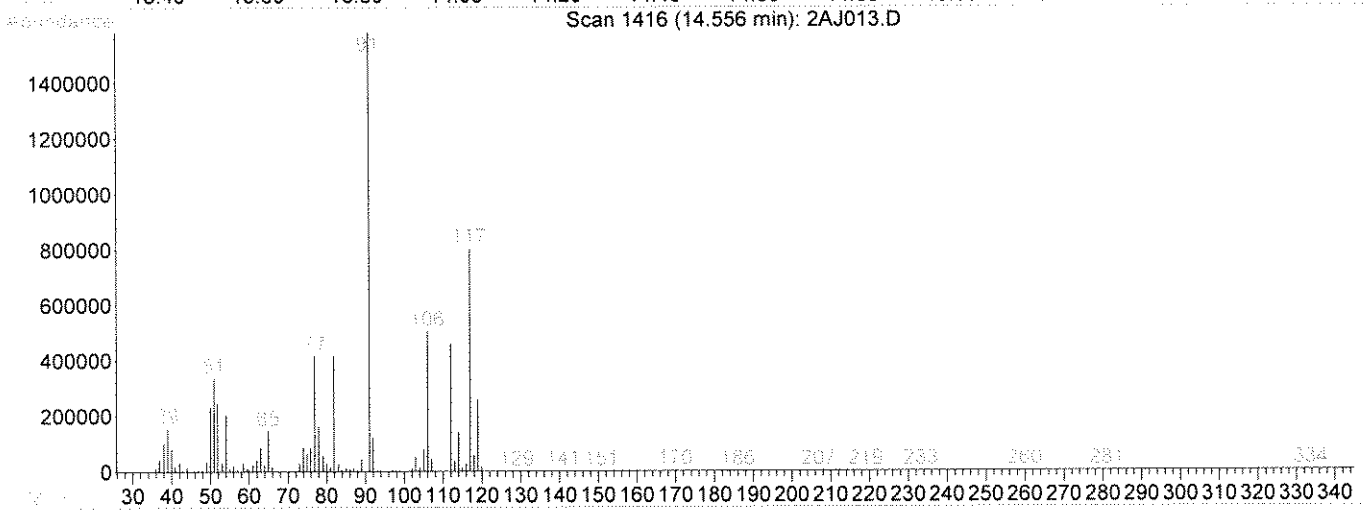
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 1/16/13
Review by/Date: LB 1-17-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\011513\2AJ013.D Vial: 13
Acq On : 15 Jan 2013 19:45 Operator: kat
Sample : aa22782-scv2 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 16 13:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1301050.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1301050
Last Update : Wed Jan 16 13:02:48 2013
Response via : Multiple Level Calibration





TIC: 2AJ013.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/L m

response 1563298

Ion	Exp%	Act%
117.00	100	100
82.00	60.00	51.39
119.00	32.80	33.66
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date LCT 1/16/13
Review by/Date KB 1-17-13

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\011513\2AJ001.D
Tune Time : 15 Jan 2013 13:23

Daily Calibration File : C:\HPCHEM\1\DATA\011513\2AJ007.D

						1226870	1885250	1630690
						801552		

File	Sample	Surrogate Recovery %				Internal Standard Responses		
2AJ002.D	aa22782-	85	72	79	79	1193112	1996511	1681637
				757424				
2AJ003.D	aa22782-	3*	2*	3*	4*	1222602	2006218	1672425
				759239				
2AJ004.D	aa22782-	11*	9*	13*	12*	1244232	2012487	1752784
				802598				
2AJ005.D	aa22782-	39*	31*	43	38*	1225157	1977061	1710055
				819339				
2AJ006.D	aa22782-	73	62	86	77	1248446	1974011	1726256
				809505				
2AJ007.D	aa22782-	182*	157	205*	186*	1226866	1885250	1630693
				801552				
2AJ008.D	aa22782-	365*	360*	422*	408*	1220239	1737985	1550528
				766450				
2AJ009.D	aa22782-	0*	0*	0*	0*	1209362	1973396	1762095
				833163				
2AJ012.D	aa22782-	81	82	85	84	1210001	1907854	1678628
				798613				
2AJ013.D	aa22782-	81	91	89	87	1177090	1815003	1563298
				792048				

t - fails 12hr time check * - fails criteria

Created: Wed Jan 16 14:04:08 2013 OVGCMS2

KT/16/13

DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

8260B DOD Extended

1/16/13

1,1,1,2-Tetrachloroethane Minimum RRT: 1.003 RRT Lower Limit: 0.943 RRT Upper Limit: 1.063

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	14.61	14.56	1.003	PASS
AA22782-CAL6	14.61	14.56	1.003	PASS
AA22782-CAL5	14.61	14.56	1.003	PASS
AA22782-CAL1	14.61	14.56	1.003	PASS
AA22782-CAL3	14.61	14.56	1.003	PASS
AA22782-CAL2	14.62	14.56	1.004	PASS

1,1,1-Trichloroethane Minimum RRT: 0.970 RRT Lower Limit: 0.910 RRT Upper Limit: 1.030

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	10.97	11.31	0.970	PASS
AA22782-CAL5	10.97	11.31	0.970	PASS
AA22782-CAL4	10.97	11.31	0.970	PASS
AA22782-CAL3	10.97	11.31	0.970	PASS
AA22782-CAL2	10.97	11.31	0.970	PASS
AA22782-CAL1	10.97	11.31	0.970	PASS

1,1,2,2-Tetrachloroethane Minimum RRT: 1.086 RRT Lower Limit: 1.026 RRT Upper Limit: 1.146

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	15.81	14.56	1.086	PASS
AA22782-CAL2	15.81	14.56	1.086	PASS
AA22782-CAL3	15.81	14.56	1.086	PASS
AA22782-CAL6	15.81	14.56	1.086	PASS
AA22782-CAL1	15.81	14.56	1.086	PASS
AA22782-CAL4	15.81	14.56	1.086	PASS

1,1,2-Trichloroethane Minimum RRT: 0.942 RRT Lower Limit: 0.882 RRT Upper Limit: 1.002

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	13.71	14.56	0.942	PASS
AA22782-CAL1	13.71	14.56	0.942	PASS
AA22782-CAL5	13.71	14.56	0.942	PASS
AA22782-CAL4	13.71	14.56	0.942	PASS
AA22782-CAL2	13.71	14.56	0.942	PASS
AA22782-CAL6	13.71	14.56	0.942	PASS

1,1-Dichloroethane Minimum RRT: 0.867 RRT Lower Limit: 0.807 RRT Upper Limit: 0.927

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	9.82	11.31	0.868	PASS
AA22782-CAL4	9.82	11.31	0.868	PASS
AA22782-CAL6	9.81	11.31	0.867	PASS
AA22782-CAL5	9.81	11.31	0.867	PASS
AA22782-CAL2	9.82	11.31	0.868	PASS
AA22782-CAL3	9.81	11.31	0.867	PASS

1,1-Dichloroethene Minimum RRT: 0.697 RRT Lower Limit: 0.637 RRT Upper Limit: 0.757

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	7.89	11.31	0.698	PASS
AA22782-CAL3	7.89	11.31	0.698	PASS
AA22782-CAL1	7.89	11.31	0.698	PASS
AA22782-CAL2	7.89	11.31	0.698	PASS
AA22782-CAL4	7.89	11.31	0.698	PASS
AA22782-CAL6	7.88	11.31	0.697	PASS

1,1-Dichloropropene Minimum RRT: 0.979 RRT Lower Limit: 0.919 RRT Upper Limit: 1.039

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	11.08	11.31	0.980	PASS

DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

8260B DOD Extended

AA22782-CAL1	11.09	11.31	0.981	PASS
AA22782-CAL5	11.08	11.31	0.980	PASS
AA22782-CAL6	11.07	11.31	0.979	PASS
AA22782-CAL4	11.08	11.31	0.980	PASS
AA22782-CAL2	11.08	11.31	0.980	PASS

1,2,3-Trichlorobenzene **Minimum RRT: 1.239** **RRT Lower Limit: 1.179** **RRT Upper Limit: 1.299**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	20.94	16.89	1.240	PASS
AA22782-CAL2	20.94	16.89	1.240	PASS
AA22782-CAL5	20.94	16.89	1.240	PASS
AA22782-CAL1	20.94	16.9	1.239	PASS
AA22782-CAL3	20.95	16.89	1.240	PASS
AA22782-CAL4	20.94	16.89	1.240	PASS

1,2,3-Trichloropropane **Minimum RRT: 1.099** **RRT Lower Limit: 1.039** **RRT Upper Limit: 1.159**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	16	14.56	1.099	PASS
AA22782-CAL3	16	14.56	1.099	PASS
AA22782-CAL4	16	14.56	1.099	PASS
AA22782-CAL6	16	14.56	1.099	PASS
AA22782-CAL1	16	14.56	1.099	PASS
AA22782-CAL5	16	14.56	1.099	PASS

1,2,4-Trichlorobenzene **Minimum RRT: 1.172** **RRT Lower Limit: 1.112** **RRT Upper Limit: 1.232**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	19.81	16.89	1.173	PASS
AA22782-CAL5	19.81	16.89	1.173	PASS
AA22782-CAL1	19.81	16.9	1.172	PASS
AA22782-CAL2	19.8	16.89	1.172	PASS
AA22782-CAL6	19.81	16.89	1.173	PASS
AA22782-CAL3	19.8	16.89	1.172	PASS

1,2,4-Trimethylbenzene **Minimum RRT: 0.967** **RRT Lower Limit: 0.907** **RRT Upper Limit: 1.027**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	16.34	16.89	0.967	PASS
AA22782-CAL1	16.35	16.9	0.967	PASS
AA22782-CAL4	16.34	16.89	0.967	PASS
AA22782-CAL3	16.34	16.89	0.967	PASS
AA22782-CAL6	16.34	16.89	0.967	PASS
AA22782-CAL2	16.34	16.89	0.967	PASS

1,2-Dibromo-3-chloropropane **Minimum RRT: 1.102** **RRT Lower Limit: 1.042** **RRT Upper Limit: 1.162**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	18.62	16.89	1.102	PASS
AA22782-CAL2	18.62	16.89	1.102	PASS
AA22782-CAL1	18.62	16.9	1.102	PASS
AA22782-CAL4	18.62	16.89	1.102	PASS
AA22782-CAL6	18.62	16.89	1.102	PASS
AA22782-CAL3	18.62	16.89	1.102	PASS

1,2-Dibromoethane **Minimum RRT: 0.972** **RRT Lower Limit: 0.912** **RRT Upper Limit: 1.032**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	14.15	14.56	0.972	PASS
AA22782-CAL1	14.15	14.56	0.972	PASS
AA22782-CAL4	14.15	14.56	0.972	PASS
AA22782-CAL5	14.15	14.56	0.972	PASS

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AA22782-CAL3	14.15	14.56	0.972	PASS
AA22782-CAL2	14.15	14.56	0.972	PASS

1,2-Dichlorobenzene **Minimum RRT: 1.034** **RRT Lower Limit: 0.974** **RRT Upper Limit: 1.094**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	17.47	16.89	1.034	PASS
AA22782-CAL5	17.47	16.89	1.034	PASS
AA22782-CAL6	17.47	16.89	1.034	PASS
AA22782-CAL3	17.47	16.89	1.034	PASS
AA22782-CAL4	17.47	16.89	1.034	PASS
AA22782-CAL1	17.47	16.9	1.034	PASS

1,2-Dichloroethane **Minimum RRT: 0.971** **RRT Lower Limit: 0.911** **RRT Upper Limit: 1.031**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	11.54	11.88	0.971	PASS
AA22782-CAL4	11.54	11.88	0.971	PASS
AA22782-CAL2	11.54	11.89	0.971	PASS
AA22782-CAL3	11.54	11.89	0.971	PASS
AA22782-CAL5	11.54	11.89	0.971	PASS
AA22782-CAL1	11.54	11.88	0.971	PASS

1,2-Dichloroethane-d4 **Minimum RRT: 0.965** **RRT Lower Limit: 0.905** **RRT Upper Limit: 1.025**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	11.47	11.88	0.965	PASS
AA22782-CAL5	11.48	11.89	0.966	PASS
AA22782-CAL1	11.47	11.88	0.965	PASS
AA22782-CAL4	11.47	11.88	0.965	PASS
AA22782-CAL3	11.48	11.89	0.966	PASS
AA22782-CAL2	11.48	11.89	0.966	PASS

1,2-Dichloropropane **Minimum RRT: 1.043** **RRT Lower Limit: 0.983** **RRT Upper Limit: 1.103**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	12.41	11.88	1.045	PASS
AA22782-CAL5	12.41	11.89	1.044	PASS
AA22782-CAL3	12.4	11.89	1.043	PASS
AA22782-CAL2	12.41	11.89	1.044	PASS
AA22782-CAL4	12.41	11.88	1.045	PASS
AA22782-CAL6	12.4	11.88	1.044	PASS

1,3,5-Trimethylbenzene **Minimum RRT: 0.941** **RRT Lower Limit: 0.881** **RRT Upper Limit: 1.001**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	15.9	16.89	0.941	PASS
AA22782-CAL1	15.91	16.9	0.941	PASS
AA22782-CAL4	15.9	16.89	0.941	PASS
AA22782-CAL2	15.9	16.89	0.941	PASS
AA22782-CAL3	15.9	16.89	0.941	PASS
AA22782-CAL5	15.9	16.89	0.941	PASS

1,3-Dichlorobenzene **Minimum RRT: 0.996** **RRT Lower Limit: 0.936** **RRT Upper Limit: 1.056**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	16.82	16.89	0.996	PASS
AA22782-CAL1	16.83	16.9	0.996	PASS
AA22782-CAL3	16.82	16.89	0.996	PASS
AA22782-CAL2	16.82	16.89	0.996	PASS
AA22782-CAL6	16.82	16.89	0.996	PASS
AA22782-CAL4	16.82	16.89	0.996	PASS

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1,3-Dichloropropane Minimum RRT: 0.959 RRT Lower Limit: 0.899 RRT Upper Limit: 1.019

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	13.96	14.56	0.959	PASS
AA22782-CAL1	13.96	14.56	0.959	PASS
AA22782-CAL3	13.97	14.56	0.959	PASS
AA22782-CAL6	13.96	14.56	0.959	PASS
AA22782-CAL2	13.96	14.56	0.959	PASS
AA22782-CAL5	13.96	14.56	0.959	PASS

1,4-Dichlorobenzene Minimum RRT: 1.001 RRT Lower Limit: 0.941 RRT Upper Limit: 1.061

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	16.92	16.89	1.002	PASS
AA22782-CAL2	16.91	16.89	1.001	PASS
AA22782-CAL6	16.91	16.89	1.001	PASS
AA22782-CAL5	16.91	16.89	1.001	PASS
AA22782-CAL4	16.91	16.89	1.001	PASS
AA22782-CAL1	16.91	16.9	1.001	PASS

1,4-Dichlorobenzene-d4 Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	16.89	16.89	1.000	PASS
AA22782-CAL7	16.9	16.9	1.000	PASS
AA22782-CAL2	16.89	16.89	1.000	PASS
AA22782-CAL3	16.89	16.89	1.000	PASS
AA22782-CAL1	16.9	16.9	1.000	PASS
AA22782-CAL6	16.89	16.89	1.000	PASS
AA22782-CAL5	16.89	16.89	1.000	PASS

1,4-Difluorobenzene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	11.89	11.89	1.000	PASS
AA22782-CAL6	11.88	11.88	1.000	PASS
AA22782-CAL5	11.89	11.89	1.000	PASS
AA22782-CAL1	11.88	11.88	1.000	PASS
AA22782-CAL4	11.88	11.88	1.000	PASS
AA22782-CAL7	11.88	11.88	1.000	PASS
AA22782-CAL2	11.89	11.89	1.000	PASS

1,4-Dioxane Minimum RRT: 1.060 RRT Lower Limit: 1.000 RRT Upper Limit: 1.120

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	12.6	11.88	1.061	PASS
AA22782-CAL5	12.61	11.89	1.061	PASS
AA22782-CAL7	12.6	11.88	1.061	PASS
AA22782-CAL3	12.6	11.89	1.060	PASS
AA22782-CAL1	12.61	11.88	1.061	PASS
AA22782-CAL6	12.61	11.88	1.061	PASS
AA22782-CAL2	12.6	11.89	1.060	PASS

2,2-Dichloropropane Minimum RRT: 0.934 RRT Lower Limit: 0.874 RRT Upper Limit: 0.994

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	10.57	11.31	0.935	PASS
AA22782-CAL5	10.56	11.31	0.934	PASS
AA22782-CAL6	10.56	11.31	0.934	PASS
AA22782-CAL1	10.56	11.31	0.934	PASS
AA22782-CAL3	10.56	11.31	0.934	PASS
AA22782-CAL4	10.56	11.31	0.934	PASS

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2-Butanone Minimum RRT: 0.973 RRT Lower Limit: 0.913 RRT Upper Limit: 1.033

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	11.02	11.31	0.974	PASS
AA22782-CAL4	11.02	11.31	0.974	PASS
AA22782-CAL7	11.02	11.32	0.973	PASS
AA22782-CAL6	11.02	11.31	0.974	PASS
AA22782-CAL2	11.02	11.31	0.974	PASS
AA22782-CAL1	11.02	11.31	0.974	PASS
AA22782-CAL3	11.02	11.31	0.974	PASS

2-Chloroethyl Vinyl Ether Minimum RRT: 1.083 RRT Lower Limit: 1.023 RRT Upper Limit: 1.143

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	13	11.88	1.094	PASS
AA22782-CAL7	12.87	11.88	1.083	PASS
AA22782-CAL6	12.99	11.88	1.093	PASS
AA22782-CAL3	12.99	11.89	1.093	PASS
AA22782-CAL2	12.98	11.89	1.092	PASS
AA22782-CAL5	13	11.89	1.093	PASS
AA22782-CAL4	13	11.88	1.094	PASS

2-Chlorotoluene Minimum RRT: 0.946 RRT Lower Limit: 0.886 RRT Upper Limit: 1.006

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	15.97	16.89	0.946	PASS
AA22782-CAL6	15.98	16.89	0.946	PASS
AA22782-CAL3	15.97	16.89	0.946	PASS
AA22782-CAL1	15.98	16.9	0.946	PASS
AA22782-CAL5	15.97	16.89	0.946	PASS
AA22782-CAL2	15.97	16.89	0.946	PASS

2-Hexanone Minimum RRT: 1.194 RRT Lower Limit: 1.134 RRT Upper Limit: 1.254

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	14.2	11.89	1.194	PASS
AA22782-CAL1	14.2	11.88	1.195	PASS
AA22782-CAL6	14.2	11.88	1.195	PASS
AA22782-CAL7	14.2	11.88	1.195	PASS
AA22782-CAL2	14.2	11.89	1.194	PASS
AA22782-CAL4	14.2	11.88	1.195	PASS
AA22782-CAL3	14.2	11.89	1.194	PASS

3-Chloropropene Minimum RRT: 0.761 RRT Lower Limit: 0.701 RRT Upper Limit: 0.821

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	8.62	11.31	0.762	PASS
AA22782-CAL7	8.62	11.32	0.761	PASS
AA22782-CAL5	8.63	11.31	0.763	PASS
AA22782-CAL2	8.63	11.31	0.763	PASS
AA22782-CAL4	8.62	11.31	0.762	PASS
AA22782-CAL3	8.63	11.31	0.763	PASS
AA22782-CAL1	8.62	11.31	0.762	PASS

4-Bromofluorobenzene Minimum RRT: 1.076 RRT Lower Limit: 1.016 RRT Upper Limit: 1.136

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	15.68	14.56	1.077	PASS
AA22782-CAL1	15.67	14.56	1.076	PASS
AA22782-CAL5	15.68	14.56	1.077	PASS
AA22782-CAL6	15.68	14.56	1.077	PASS
AA22782-CAL2	15.68	14.56	1.077	PASS
AA22782-CAL4	15.68	14.56	1.077	PASS

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4-Chlorotoluene **Minimum RRT: 0.955** **RRT Lower Limit: 0.895** **RRT Upper Limit: 1.015**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	16.14	16.89	0.956	PASS
AA22782-CAL2	16.14	16.89	0.956	PASS
AA22782-CAL1	16.14	16.9	0.955	PASS
AA22782-CAL3	16.14	16.89	0.956	PASS
AA22782-CAL4	16.14	16.89	0.956	PASS
AA22782-CAL5	16.14	16.89	0.956	PASS

4-Isopropyltoluene **Minimum RRT: 0.982** **RRT Lower Limit: 0.922** **RRT Upper Limit: 1.042**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	16.59	16.89	0.982	PASS
AA22782-CAL1	16.59	16.9	0.982	PASS
AA22782-CAL6	16.59	16.89	0.982	PASS
AA22782-CAL3	16.59	16.89	0.982	PASS
AA22782-CAL2	16.59	16.89	0.982	PASS
AA22782-CAL4	16.59	16.89	0.982	PASS

4-Methyl-2-pentanone **Minimum RRT: 1.135** **RRT Lower Limit: 1.075** **RRT Upper Limit: 1.195**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	13.5	11.88	1.136	PASS
AA22782-CAL2	13.49	11.89	1.135	PASS
AA22782-CAL1	13.5	11.88	1.136	PASS
AA22782-CAL4	13.49	11.88	1.136	PASS
AA22782-CAL5	13.49	11.89	1.135	PASS
AA22782-CAL7	13.49	11.88	1.136	PASS
AA22782-CAL3	13.49	11.89	1.135	PASS

Acetone **Minimum RRT: 0.782** **RRT Lower Limit: 0.722** **RRT Upper Limit: 0.842**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	8.86	11.31	0.783	PASS
AA22782-CAL3	8.85	11.31	0.782	PASS
AA22782-CAL1	8.86	11.31	0.783	PASS
AA22782-CAL7	8.86	11.32	0.783	PASS
AA22782-CAL5	8.86	11.31	0.783	PASS
AA22782-CAL6	8.86	11.31	0.783	PASS
AA22782-CAL2	8.85	11.31	0.782	PASS

Acetonitrile **Minimum RRT: 0.840** **RRT Lower Limit: 0.780** **RRT Upper Limit: 0.900**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL7	9.51	11.32	0.840	PASS
AA22782-CAL1	9.51	11.31	0.841	PASS
AA22782-CAL6	9.51	11.31	0.841	PASS
AA22782-CAL4	9.51	11.31	0.841	PASS
AA22782-CAL3	9.5	11.31	0.840	PASS
AA22782-CAL2	9.5	11.31	0.840	PASS
AA22782-CAL5	9.51	11.31	0.841	PASS

Acrolein **Minimum RRT: 0.745** **RRT Lower Limit: 0.685** **RRT Upper Limit: 0.805**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	8.43	11.31	0.745	PASS
AA22782-CAL2	8.43	11.31	0.745	PASS
AA22782-CAL3	8.43	11.31	0.745	PASS
AA22782-CAL1	8.43	11.31	0.745	PASS
AA22782-CAL6	8.43	11.31	0.745	PASS
AA22782-CAL5	8.43	11.31	0.745	PASS

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Acrylonitriile — **Minimum RRT: 0.874** — **RRT Lower Limit: 0.814** — **RRT Upper Limit: 0.934**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	9.88	11.31	0.874	PASS
AA22782-CAL6	9.88	11.31	0.874	PASS
AA22782-CAL1	9.88	11.31	0.874	PASS
AA22782-CAL4	9.88	11.31	0.874	PASS
AA22782-CAL3	9.88	11.31	0.874	PASS
AA22782-CAL5	9.88	11.31	0.874	PASS

Benzene — **Minimum RRT: 0.954** — **RRT Lower Limit: 0.894** — **RRT Upper Limit: 1.014**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	11.34	11.89	0.954	PASS
AA22782-CAL6	11.34	11.88	0.955	PASS
AA22782-CAL2	11.34	11.89	0.954	PASS
AA22782-CAL3	11.34	11.89	0.954	PASS
AA22782-CAL1	11.35	11.88	0.955	PASS
AA22782-CAL4	11.34	11.88	0.955	PASS

Bromobenzene — **Minimum RRT: 0.937** — **RRT Lower Limit: 0.877** — **RRT Upper Limit: 0.997**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	15.83	16.89	0.937	PASS
AA22782-CAL3	15.83	16.89	0.937	PASS
AA22782-CAL2	15.83	16.89	0.937	PASS
AA22782-CAL6	15.83	16.89	0.937	PASS
AA22782-CAL5	15.83	16.89	0.937	PASS
AA22782-CAL1	15.84	16.9	0.937	PASS

Bromochloromethane — **Minimum RRT: 0.943** — **RRT Lower Limit: 0.883** — **RRT Upper Limit: 1.003**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	10.66	11.31	0.943	PASS
AA22782-CAL4	10.66	11.31	0.943	PASS
AA22782-CAL1	10.67	11.31	0.943	PASS
AA22782-CAL3	10.66	11.31	0.943	PASS
AA22782-CAL2	10.66	11.31	0.943	PASS
AA22782-CAL5	10.66	11.31	0.943	PASS

Bromodichloromethane — **Minimum RRT: 1.045** — **RRT Lower Limit: 0.985** — **RRT Upper Limit: 1.105**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	12.43	11.89	1.045	PASS
AA22782-CAL3	12.43	11.89	1.045	PASS
AA22782-CAL1	12.43	11.88	1.046	PASS
AA22782-CAL4	12.43	11.88	1.046	PASS
AA22782-CAL2	12.43	11.89	1.045	PASS
AA22782-CAL6	12.43	11.88	1.046	PASS

Bromoform — **Minimum RRT: 1.045** — **RRT Lower Limit: 0.985** — **RRT Upper Limit: 1.105**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	15.22	14.56	1.045	PASS
AA22782-CAL3	15.22	14.56	1.045	PASS
AA22782-CAL1	15.22	14.56	1.045	PASS
AA22782-CAL5	15.22	14.56	1.045	PASS
AA22782-CAL2	15.22	14.56	1.045	PASS
AA22782-CAL4	15.22	14.56	1.045	PASS

Bromomethane — **Minimum RRT: 0.565** — **RRT Lower Limit: 0.505** — **RRT Upper Limit: 0.625**

Analyte	RT	ISTD RT	RRT	

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AA22782-CAL2	6.4	11.31	0.566	PASS
AA22782-CAL4	6.39	11.31	0.565	PASS
AA22782-CAL6	6.39	11.31	0.565	PASS
AA22782-CAL1	6.4	11.31	0.566	PASS
AA22782-CAL5	6.39	11.31	0.565	PASS
AA22782-CAL3	6.39	11.31	0.565	PASS

Carbon disulfide **Minimum RRT: 0.703** **RRT Lower Limit: 0.643** **RRT Upper Limit: 0.763**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	7.98	11.31	0.706	PASS
AA22782-CAL3	7.98	11.31	0.706	PASS
AA22782-CAL6	7.96	11.31	0.704	PASS
AA22782-CAL4	7.97	11.31	0.705	PASS
AA22782-CAL7	7.96	11.32	0.703	PASS
AA22782-CAL5	7.97	11.31	0.705	PASS
AA22782-CAL2	7.98	11.31	0.706	PASS

Carbon Tetrachloride **Minimum RRT: 0.917** **RRT Lower Limit: 0.857** **RRT Upper Limit: 0.977**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	10.9	11.89	0.917	PASS
AA22782-CAL1	10.89	11.88	0.917	PASS
AA22782-CAL5	10.9	11.89	0.917	PASS
AA22782-CAL3	10.9	11.89	0.917	PASS
AA22782-CAL4	10.89	11.88	0.917	PASS
AA22782-CAL6	10.89	11.88	0.917	PASS

Chlorobenzene **Minimum RRT: 1.001** **RRT Lower Limit: 0.941** **RRT Upper Limit: 1.061**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	14.58	14.56	1.001	PASS
AA22782-CAL6	14.58	14.56	1.001	PASS
AA22782-CAL1	14.58	14.56	1.001	PASS
AA22782-CAL4	14.58	14.56	1.001	PASS
AA22782-CAL3	14.57	14.56	1.001	PASS
AA22782-CAL2	14.58	14.56	1.001	PASS

Chlorobenzene-d5 **Minimum RRT: 1.000** **RRT Lower Limit: 0.940** **RRT Upper Limit: 1.060**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	14.56	14.56	1.000	PASS
AA22782-CAL7	14.56	14.56	1.000	PASS
AA22782-CAL5	14.56	14.56	1.000	PASS
AA22782-CAL1	14.56	14.56	1.000	PASS
AA22782-CAL4	14.56	14.56	1.000	PASS
AA22782-CAL2	14.56	14.56	1.000	PASS
AA22782-CAL6	14.56	14.56	1.000	PASS

Chloroethane **Minimum RRT: 0.586** **RRT Lower Limit: 0.526** **RRT Upper Limit: 0.646**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	6.68	11.31	0.591	PASS
AA22782-CAL3	6.67	11.31	0.590	PASS
AA22782-CAL2	6.68	11.31	0.591	PASS
AA22782-CAL6	6.63	11.31	0.586	PASS
AA22782-CAL5	6.64	11.31	0.587	PASS
AA22782-CAL4	6.64	11.31	0.587	PASS

Chloroform **Minimum RRT: 0.946** **RRT Lower Limit: 0.886** **RRT Upper Limit: 1.006**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	10.7	11.31	0.946	PASS

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AA22782-CAL2	10.7	11.31	0.946	PASS
AA22782-CAL5	10.7	11.31	0.946	PASS
AA22782-CAL4	10.7	11.31	0.946	PASS
AA22782-CAL6	10.7	11.31	0.946	PASS
AA22782-CAL1	10.7	11.31	0.946	PASS

Chloromethane **Minimum RRT: 0.474** **RRT Lower Limit: 0.414** **RRT Upper Limit: 0.534**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	5.36	11.31	0.474	PASS
AA22782-CAL6	5.36	11.31	0.474	PASS
AA22782-CAL1	5.36	11.31	0.474	PASS
AA22782-CAL4	5.36	11.31	0.474	PASS
AA22782-CAL5	5.36	11.31	0.474	PASS
AA22782-CAL2	5.37	11.31	0.475	PASS

Chloroprene **Minimum RRT: 0.864** **RRT Lower Limit: 0.804** **RRT Upper Limit: 0.924**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	9.78	11.31	0.865	PASS
AA22782-CAL7	9.78	11.32	0.864	PASS
AA22782-CAL4	9.78	11.31	0.865	PASS
AA22782-CAL1	9.78	11.31	0.865	PASS
AA22782-CAL6	9.78	11.31	0.865	PASS
AA22782-CAL5	9.78	11.31	0.865	PASS
AA22782-CAL2	9.78	11.31	0.865	PASS

cis-1,2-Dichloroethene **Minimum RRT: 0.922** **RRT Lower Limit: 0.862** **RRT Upper Limit: 0.982**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	10.43	11.31	0.922	PASS
AA22782-CAL3	10.44	11.31	0.923	PASS
AA22782-CAL4	10.44	11.31	0.923	PASS
AA22782-CAL6	10.43	11.31	0.922	PASS
AA22782-CAL5	10.44	11.31	0.923	PASS
AA22782-CAL1	10.43	11.31	0.922	PASS

cis-1,3-Dichloropropene **Minimum RRT: 1.093** **RRT Lower Limit: 1.033** **RRT Upper Limit: 1.153**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	12.99	11.89	1.093	PASS
AA22782-CAL5	13	11.89	1.093	PASS
AA22782-CAL1	12.99	11.88	1.093	PASS
AA22782-CAL6	12.99	11.88	1.093	PASS
AA22782-CAL4	13	11.88	1.094	PASS
AA22782-CAL2	13	11.89	1.093	PASS

Cyclohexane **Minimum RRT: 0.944** **RRT Lower Limit: 0.884** **RRT Upper Limit: 1.004**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	10.68	11.31	0.944	PASS
AA22782-CAL5	10.68	11.31	0.944	PASS
AA22782-CAL4	10.68	11.31	0.944	PASS
AA22782-CAL3	10.68	11.31	0.944	PASS
AA22782-CAL6	10.68	11.31	0.944	PASS
AA22782-CAL2	10.68	11.31	0.944	PASS

Dibromochloromethane **Minimum RRT: 0.954** **RRT Lower Limit: 0.894** **RRT Upper Limit: 1.014**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	13.89	14.56	0.954	PASS
AA22782-CAL5	13.89	14.56	0.954	PASS
AA22782-CAL4	13.89	14.56	0.954	PASS

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AA22782-CAL6	13.89	14.56	0.954	PASS
AA22782-CAL3	13.9	14.56	0.955	PASS
AA22782-CAL2	13.89	14.56	0.954	PASS

Dibromofluoromethane **Minimum RRT: 0.964** **RRT Lower Limit: 0.904** **RRT Upper Limit: 1.024**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	10.9	11.31	0.964	PASS
AA22782-CAL5	10.9	11.31	0.964	PASS
AA22782-CAL2	10.9	11.31	0.964	PASS
AA22782-CAL6	10.9	11.31	0.964	PASS
AA22782-CAL3	10.9	11.31	0.964	PASS
AA22782-CAL1	10.91	11.31	0.965	PASS

Dibromomethane **Minimum RRT: 1.036** **RRT Lower Limit: 0.976** **RRT Upper Limit: 1.096**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	12.32	11.88	1.037	PASS
AA22782-CAL5	12.32	11.89	1.036	PASS
AA22782-CAL2	12.32	11.89	1.036	PASS
AA22782-CAL4	12.32	11.88	1.037	PASS
AA22782-CAL3	12.32	11.89	1.036	PASS
AA22782-CAL1	12.33	11.88	1.038	PASS

Dichlorodifluoromethane **Minimum RRT: 0.426** **RRT Lower Limit: 0.366** **RRT Upper Limit: 0.486**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	4.82	11.31	0.426	PASS
AA22782-CAL3	4.82	11.31	0.426	PASS
AA22782-CAL1	4.82	11.31	0.426	PASS
AA22782-CAL2	4.82	11.31	0.426	PASS
AA22782-CAL4	4.82	11.31	0.426	PASS
AA22782-CAL6	4.82	11.31	0.426	PASS

Diethyl ether **Minimum RRT: 0.666** **RRT Lower Limit: 0.606** **RRT Upper Limit: 0.726**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	7.53	11.31	0.666	PASS
AA22782-CAL2	7.54	11.31	0.667	PASS
AA22782-CAL6	7.54	11.31	0.667	PASS
AA22782-CAL4	7.53	11.31	0.666	PASS
AA22782-CAL1	7.54	11.31	0.667	PASS
AA22782-CAL5	7.53	11.31	0.666	PASS

Ethyl Methacrylate **Minimum RRT: 0.933** **RRT Lower Limit: 0.873** **RRT Upper Limit: 0.993**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	13.6	14.56	0.934	PASS
AA22782-CAL1	13.6	14.56	0.934	PASS
AA22782-CAL2	13.6	14.56	0.934	PASS
AA22782-CAL3	13.59	14.56	0.933	PASS
AA22782-CAL4	13.6	14.56	0.934	PASS
AA22782-CAL7	13.59	14.56	0.933	PASS
AA22782-CAL6	13.6	14.56	0.934	PASS

Ethylbenzene **Minimum RRT: 0.999** **RRT Lower Limit: 0.939** **RRT Upper Limit: 1.059**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	14.54	14.56	0.999	PASS
AA22782-CAL1	14.54	14.56	0.999	PASS
AA22782-CAL2	14.54	14.56	0.999	PASS
AA22782-CAL3	14.54	14.56	0.999	PASS
AA22782-CAL6	14.54	14.56	0.999	PASS

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AA22782-CAL5	14.54	14.56	0.999	PASS

Freon 113 Minimum RRT: 0.700 RRT Lower Limit: 0.640 RRT Upper Limit: 0.760

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	7.92	11.31	0.700	PASS
AA22782-CAL1	7.94	11.31	0.702	PASS
AA22782-CAL2	7.93	11.31	0.701	PASS
AA22782-CAL5	7.93	11.31	0.701	PASS
AA22782-CAL6	7.92	11.31	0.700	PASS
AA22782-CAL3	7.93	11.31	0.701	PASS

Hexachlorobutadiene Minimum RRT: 1.163 RRT Lower Limit: 1.103 RRT Upper Limit: 1.223

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	19.64	16.89	1.163	PASS
AA22782-CAL1	19.65	16.9	1.163	PASS
AA22782-CAL5	19.64	16.89	1.163	PASS
AA22782-CAL4	19.64	16.89	1.163	PASS
AA22782-CAL2	19.64	16.89	1.163	PASS
AA22782-CAL3	19.64	16.89	1.163	PASS

Iodomethane Minimum RRT: 0.719 RRT Lower Limit: 0.659 RRT Upper Limit: 0.779

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	8.16	11.31	0.721	PASS
AA22782-CAL5	8.15	11.31	0.721	PASS
AA22782-CAL3	8.15	11.31	0.721	PASS
AA22782-CAL4	8.15	11.31	0.721	PASS
AA22782-CAL6	8.14	11.31	0.720	PASS
AA22782-CAL2	8.15	11.31	0.721	PASS
AA22782-CAL7	8.14	11.32	0.719	PASS

Isobutyl alcohol Minimum RRT: 0.958 RRT Lower Limit: 0.898 RRT Upper Limit: 1.018

Analyte	RT	ISTD RT	RRT	
AA22782-CAL7	11.42	11.88	0.961	PASS
AA22782-CAL3	11.4	11.89	0.959	PASS
AA22782-CAL1	11.38	11.88	0.958	PASS
AA22782-CAL6	11.41	11.88	0.960	PASS
AA22782-CAL5	11.4	11.89	0.959	PASS
AA22782-CAL4	11.4	11.88	0.960	PASS
AA22782-CAL2	11.39	11.89	0.958	PASS

Isopropyl Ether Minimum RRT: 0.848 RRT Lower Limit: 0.788 RRT Upper Limit: 0.908

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	9.59	11.31	0.848	PASS
AA22782-CAL2	9.59	11.31	0.848	PASS
AA22782-CAL6	9.59	11.31	0.848	PASS
AA22782-CAL1	9.59	11.31	0.848	PASS
AA22782-CAL3	9.59	11.31	0.848	PASS
AA22782-CAL4	9.59	11.31	0.848	PASS

Isopropylbenzene Minimum RRT: 1.054 RRT Lower Limit: 0.994 RRT Upper Limit: 1.114

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	15.35	14.56	1.054	PASS
AA22782-CAL1	15.34	14.56	1.054	PASS
AA22782-CAL6	15.34	14.56	1.054	PASS
AA22782-CAL2	15.34	14.56	1.054	PASS
AA22782-CAL5	15.34	14.56	1.054	PASS
AA22782-CAL4	15.34	14.56	1.054	PASS

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m,p-Xylenes Minimum RRT: 1.007 RRT Lower Limit: 0.947 RRT Upper Limit: 1.067

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	14.66	14.56	1.007	PASS
AA22782-CAL6	14.66	14.56	1.007	PASS
AA22782-CAL4	14.66	14.56	1.007	PASS
AA22782-CAL5	14.66	14.56	1.007	PASS
AA22782-CAL3	14.66	14.56	1.007	PASS
AA22782-CAL1	14.66	14.56	1.007	PASS

Methacrylonitrile Minimum RRT: 1.005 RRT Lower Limit: 0.945 RRT Upper Limit: 1.065

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	11.37	11.31	1.005	PASS
AA22782-CAL1	11.38	11.31	1.006	PASS
AA22782-CAL3	11.37	11.31	1.005	PASS
AA22782-CAL6	11.38	11.31	1.006	PASS
AA22782-CAL5	11.38	11.31	1.006	PASS
AA22782-CAL7	11.38	11.32	1.005	PASS
AA22782-CAL2	11.37	11.31	1.005	PASS

Methyl acetate Minimum RRT: 0.795 RRT Lower Limit: 0.735 RRT Upper Limit: 0.855

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	9	11.31	0.796	PASS
AA22782-CAL6	8.99	11.31	0.795	PASS
AA22782-CAL1	8.99	11.31	0.795	PASS
AA22782-CAL2	9	11.31	0.796	PASS
AA22782-CAL4	8.99	11.31	0.795	PASS
AA22782-CAL3	9	11.31	0.796	PASS

Methyl cyclohexane Minimum RRT: 1.001 RRT Lower Limit: 0.941 RRT Upper Limit: 1.061

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	11.91	11.89	1.002	PASS
AA22782-CAL6	11.91	11.88	1.003	PASS
AA22782-CAL3	11.9	11.89	1.001	PASS
AA22782-CAL4	11.91	11.88	1.003	PASS
AA22782-CAL1	11.9	11.88	1.002	PASS
AA22782-CAL2	11.91	11.89	1.002	PASS

Methyl Methacrylate Minimum RRT: 1.050 RRT Lower Limit: 0.990 RRT Upper Limit: 1.110

Analyte	RT	ISTD RT	RRT	
AA22782-CAL7	12.48	11.88	1.051	PASS
AA22782-CAL3	12.48	11.89	1.050	PASS
AA22782-CAL6	12.49	11.88	1.051	PASS
AA22782-CAL4	12.49	11.88	1.051	PASS
AA22782-CAL2	12.49	11.89	1.050	PASS
AA22782-CAL1	12.49	11.88	1.051	PASS
AA22782-CAL5	12.49	11.89	1.050	PASS

Methylene Chloride Minimum RRT: 0.775 RRT Lower Limit: 0.715 RRT Upper Limit: 0.835

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	8.78	11.31	0.776	PASS
AA22782-CAL5	8.78	11.31	0.776	PASS
AA22782-CAL6	8.77	11.31	0.775	PASS
AA22782-CAL4	8.78	11.31	0.776	PASS
AA22782-CAL1	8.77	11.31	0.775	PASS
AA22782-CAL3	8.78	11.31	0.776	PASS

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Methyl-tert-Butyl Ether Minimum RRT: 0.807 RRT Lower Limit: 0.747 RRT Upper Limit: 0.867

Analyte	RT	ISTD RT	RRT	
AA22782-CAL3	9.14	11.31	0.808	PASS
AA22782-CAL4	9.13	11.31	0.807	PASS
AA22782-CAL2	9.13	11.31	0.807	PASS
AA22782-CAL6	9.13	11.31	0.807	PASS
AA22782-CAL1	9.15	11.31	0.809	PASS
AA22782-CAL5	9.13	11.31	0.807	PASS

Naphthalene Minimum RRT: 1.214 RRT Lower Limit: 1.154 RRT Upper Limit: 1.274

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	20.52	16.9	1.214	PASS
AA22782-CAL2	20.53	16.89	1.216	PASS
AA22782-CAL4	20.53	16.89	1.216	PASS
AA22782-CAL3	20.52	16.89	1.215	PASS
AA22782-CAL6	20.53	16.89	1.216	PASS
AA22782-CAL5	20.52	16.89	1.215	PASS

n-Butyl Benzene Minimum RRT: 1.012 RRT Lower Limit: 0.952 RRT Upper Limit: 1.072

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	17.1	16.89	1.012	PASS
AA22782-CAL2	17.1	16.89	1.012	PASS
AA22782-CAL3	17.11	16.89	1.013	PASS
AA22782-CAL1	17.1	16.9	1.012	PASS
AA22782-CAL5	17.1	16.89	1.012	PASS
AA22782-CAL6	17.1	16.89	1.012	PASS

n-Propyl Benzene Minimum RRT: 1.082 RRT Lower Limit: 1.022 RRT Upper Limit: 1.142

Analyte	RT	ISTD RT	RRT	
AA22782-CAL2	15.75	14.56	1.082	PASS
AA22782-CAL3	15.75	14.56	1.082	PASS
AA22782-CAL6	15.75	14.56	1.082	PASS
AA22782-CAL5	15.75	14.56	1.082	PASS
AA22782-CAL4	15.75	14.56	1.082	PASS
AA22782-CAL1	15.75	14.56	1.082	PASS

o-Xylene Minimum RRT: 1.035 RRT Lower Limit: 0.975 RRT Upper Limit: 1.095

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	15.07	14.56	1.035	PASS
AA22782-CAL1	15.07	14.56	1.035	PASS
AA22782-CAL6	15.07	14.56	1.035	PASS
AA22782-CAL2	15.07	14.56	1.035	PASS
AA22782-CAL5	15.07	14.56	1.035	PASS
AA22782-CAL3	15.07	14.56	1.035	PASS

Pentafluorobenzene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	11.31	11.31	1.000	PASS
AA22782-CAL3	11.31	11.31	1.000	PASS
AA22782-CAL7	11.32	11.32	1.000	PASS
AA22782-CAL1	11.31	11.31	1.000	PASS
AA22782-CAL2	11.31	11.31	1.000	PASS
AA22782-CAL6	11.31	11.31	1.000	PASS
AA22782-CAL4	11.31	11.31	1.000	PASS

Propionitrile Minimum RRT: 1.004 RRT Lower Limit: 0.944 RRT Upper Limit: 1.064

Analyte	RT	ISTD RT	RRT	

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AA22782-CAL2	11.35	11.31	1.004	PASS
AA22782-CAL4	11.35	11.31	1.004	PASS
AA22782-CAL7	11.37	11.32	1.004	PASS
AA22782-CAL5	11.36	11.31	1.004	PASS
AA22782-CAL6	11.36	11.31	1.004	PASS
AA22782-CAL3	11.36	11.31	1.004	PASS
AA22782-CAL1	11.37	11.31	1.005	PASS

sec-Butylbenzene **Minimum RRT: 0.975** **RRT Lower Limit: 0.915** **RRT Upper Limit: 1.035**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	16.47	16.9	0.975	PASS
AA22782-CAL3	16.47	16.89	0.975	PASS
AA22782-CAL6	16.47	16.89	0.975	PASS
AA22782-CAL4	16.47	16.89	0.975	PASS
AA22782-CAL2	16.47	16.89	0.975	PASS
AA22782-CAL5	16.47	16.89	0.975	PASS

Styrene **Minimum RRT: 1.038** **RRT Lower Limit: 0.978** **RRT Upper Limit: 1.098**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	15.12	14.56	1.038	PASS
AA22782-CAL3	15.11	14.56	1.038	PASS
AA22782-CAL6	15.12	14.56	1.038	PASS
AA22782-CAL2	15.12	14.56	1.038	PASS
AA22782-CAL5	15.11	14.56	1.038	PASS
AA22782-CAL1	15.12	14.56	1.038	PASS

tert-Butylbenzene **Minimum RRT: 0.963** **RRT Lower Limit: 0.903** **RRT Upper Limit: 1.023**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	16.28	16.89	0.964	PASS
AA22782-CAL6	16.28	16.89	0.964	PASS
AA22782-CAL2	16.28	16.89	0.964	PASS
AA22782-CAL3	16.28	16.89	0.964	PASS
AA22782-CAL4	16.28	16.89	0.964	PASS
AA22782-CAL1	16.28	16.9	0.963	PASS

Tetrachloroethene **Minimum RRT: 0.932** **RRT Lower Limit: 0.872** **RRT Upper Limit: 0.992**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	13.57	14.56	0.932	PASS
AA22782-CAL4	13.57	14.56	0.932	PASS
AA22782-CAL1	13.57	14.56	0.932	PASS
AA22782-CAL5	13.57	14.56	0.932	PASS
AA22782-CAL3	13.57	14.56	0.932	PASS
AA22782-CAL2	13.57	14.56	0.932	PASS

Toluene **Minimum RRT: 0.907** **RRT Lower Limit: 0.847** **RRT Upper Limit: 0.967**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	13.21	14.56	0.907	PASS
AA22782-CAL3	13.21	14.56	0.907	PASS
AA22782-CAL4	13.21	14.56	0.907	PASS
AA22782-CAL6	13.21	14.56	0.907	PASS
AA22782-CAL5	13.21	14.56	0.907	PASS
AA22782-CAL2	13.21	14.56	0.907	PASS

Toluene-d8 **Minimum RRT: 1.108** **RRT Lower Limit: 1.048** **RRT Upper Limit: 1.168**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	13.17	11.89	1.108	PASS
AA22782-CAL2	13.17	11.89	1.108	PASS

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AA22782-CAL3	13.17	11.89	1.108	PASS
AA22782-CAL4	13.16	11.88	1.108	PASS
AA22782-CAL1	13.16	11.88	1.108	PASS
AA22782-CAL6	13.16	11.88	1.108	PASS

trans-1,2-Dichloroethene **Minimum RRT: 0.797** **RRT Lower Limit: 0.737** **RRT Upper Limit: 0.857**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	9.01	11.31	0.797	PASS
AA22782-CAL5	9.01	11.31	0.797	PASS
AA22782-CAL3	9.01	11.31	0.797	PASS
AA22782-CAL6	9.01	11.31	0.797	PASS
AA22782-CAL2	9.01	11.31	0.797	PASS
AA22782-CAL1	9.01	11.31	0.797	PASS

trans-1,3-Dichloropropene **MInimum RRT: 0.931** **RRT Lower Limit: 0.871** **RRT Upper Limit: 0.991**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	13.55	14.56	0.931	PASS
AA22782-CAL3	13.55	14.56	0.931	PASS
AA22782-CAL6	13.55	14.56	0.931	PASS
AA22782-CAL1	13.55	14.56	0.931	PASS
AA22782-CAL5	13.55	14.56	0.931	PASS
AA22782-CAL2	13.55	14.56	0.931	PASS

trans-1,4-Dichloro-2-butene **Minimum RRT: 1.098** **RRT Lower Limit: 1.038** **RRT Upper Limit: 1.158**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL6	15.99	14.56	1.098	PASS
AA22782-CAL4	15.99	14.56	1.098	PASS
AA22782-CAL1	16	14.56	1.099	PASS
AA22782-CAL2	15.99	14.56	1.098	PASS
AA22782-CAL7	15.99	14.56	1.098	PASS
AA22782-CAL5	15.99	14.56	1.098	PASS
AA22782-CAL3	16	14.56	1.099	PASS

Trichloroethene **Minimum RRT: 1.000** **RRT Lower Limit: 0.940** **RRT Upper Limit: 1.060**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL4	11.89	11.88	1.001	PASS
AA22782-CAL1	11.89	11.88	1.001	PASS
AA22782-CAL3	11.89	11.89	1.000	PASS
AA22782-CAL2	11.89	11.89	1.000	PASS
AA22782-CAL6	11.88	11.88	1.000	PASS
AA22782-CAL5	11.89	11.89	1.000	PASS

Trichlorofluoromethane **Minimum RRT: 0.611** **RRT Lower Limit: 0.551** **RRT Upper Limit: 0.671**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL1	6.97	11.31	0.616	PASS
AA22782-CAL2	6.96	11.31	0.615	PASS
AA22782-CAL6	6.91	11.31	0.611	PASS
AA22782-CAL4	6.95	11.31	0.615	PASS
AA22782-CAL3	6.96	11.31	0.615	PASS
AA22782-CAL5	6.94	11.31	0.614	PASS

Vinyl acetate **Minimum RRT: 0.887** **RRT Lower Limit: 0.827** **RRT Upper Limit: 0.947**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL7	10.04	11.32	0.887	PASS
AA22782-CAL5	10.05	11.31	0.889	PASS
AA22782-CAL3	10.05	11.31	0.889	PASS
AA22782-CAL4	10.05	11.31	0.889	PASS

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AA22782-CAL1	10.05	11.31	0.889	**PASS**
AA22782-CAL6	10.05	11.31	0.889	**PASS**
AA22782-CAL2	10.05	11.31	0.889	**PASS**

Vinyl chloride **Minimum RRT: 0.495** **RRT Lower Limit: 0.435** **RRT Upper Limit: 0.555**

Analyte	RT	ISTD RT	RRT	
AA22782-CAL5	5.6	11.31	0.495	**PASS**
AA22782-CAL1	5.6	11.31	0.495	**PASS**
AA22782-CAL4	5.6	11.31	0.495	**PASS**
AA22782-CAL3	5.6	11.31	0.495	**PASS**
AA22782-CAL6	5.6	11.31	0.495	**PASS**
AA22782-CAL2	5.6	11.31	0.495	**PASS**

ANALYSIS SEQUENCE

AA24402

Instrument: OVGCMS2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24402-TUN1	QC		1		A3E0210		
AA24402-ICB1	QC		2			A3D0152	
AA24402-CAL1	QC		3		A3F0011	A3D0152	
AA24402-CAL2	QC		4		A3F0012	A3D0152	
AA24402-CAL3	QC		5		A3F0013	A3D0152	
AA24402-CAL4	QC		6		A3F0014	A3D0152	
AA24402-CAL5	QC		7		A3F0015	A3D0152	
AA24402-CAL6	QC		8		A3F0017	A3D0152	
AA24402-CAL7	QC		9		A3F0018	A3D0152	
AA24402-SCV1	QC		10		A3F0019	A3D0152	
AA24402-SCV2	QC		11		A3F0020	A3D0152	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

CAC # 1306004
MTD # S1306004

Volatiles

EPA Method 624, ~~SW-846 Method 8260~~
SW-846 5030B, SW-846 5035

Soil Curve

Tune Start Date/Time: 6-03-13
Tune End Date/Time: 6-
Preventive Maintenance: Daily Calc
Method: 8260 SS1 Curve
Workgroup:

Surrogate ID: A3C0381
Internal ID: A3D0SV152
LCS Acrolein 2°: A3E0489/1
LCS 8260 2°: A3E0325/1
Other Standards: A3E0210/1 BFB

8260 Mix: A3F0021/1 A3C0410/3 (SD)
8260 Add: A3D0524/1
8260 Ac/Ac: A3E0490/1
8260 Gases: A3F0031/1 / A3F0024/1 (SD)
Instrument #: 1, 2, 3, or 4

SEQ AA24402

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS	
2F3001	1231	BFB 50NG	1ul/5ml	1	NA	NA	KT	AA24402-Tun1	✓	
2F3002	1303	ICB	5G/5ml	2			KT	AA24402-ICB1	✓	
2F3003	1336	1 ug/kg	5G/5ml	3			KT	AA24402 CAL1 (High)	no	A3F0011
2F3004	1409	5 ug/kg	5G/5ml	4			KT	AA24402-CAL2	✓	A3F0012
2F3005	1443	20 ug/kg	5G/5ml	5			KT	AA24402-CAL3 (High)	no	A3F0013
2F3006	1517	50 ug/kg	5G/5ml	6			KT	AA24402-CAL4	✓	A3F0014
2F3007	1551	100 ug/kg	5G/5ml	7			KT	AA24402-CAL5	✓	A3F0015
2F3008	1625	200 ug/kg	5G/5ml	8			KT	AA24402-CAL6	✓	A3F0017
2F3009	1659	400 ug/kg	5G/5ml	9			KT	AA24402-CAL7	✓	A3F0018
2F3010	1733	BLK	5ml	10			KT	~~AA BLK~~	no	
2F3011	1807	BLK 1ug/kg KT 06/04/13	5ml	11			KT	AA24402-CAL1	✓	
2F3012	1840	BLK 2ug/kg	5ml	12			KT	AA24402-CAL3	✓	
2F3013	1913	~~BLK~~ 50 ug/kg (DOD)	5G/5ml	13			KT	AA24402-SCU1 (1X)	✓	A3F0019
2F3014	1946	~~FG~~ SCU2 100 ug/kg	5G/5ml	14			KT	AA24402-SCU2	✓	A3F0020
								06/04/13		
2F4001	1309	BFB 50NG	1ul/5ml	1	NA	NA	KT	AA24402-Tun2	✓	
2F4002	1341	8260CWS 5ug/kg	5G/5ml	2			KT	AA24402-CCV1	✓	
2F4003	1417	SCU1 50ug/kg (DOD)	5G/5ml	3			KT	AA24402-SCU1	✓	SD only
2F4006	1609	BLK	5G/5ml	6			KT	AA24402-~~BLK~~ KT 06/04/13	✓	

IBL

Internal Standards	CVS RT	-0.5	0.5
PENTAFLUOROBENZENE	11.31	10.81	11.81
1,4-DIFLUOROBENZENE	11.89	11.39	12.39
CHLOROBENZENE	14.56	14.06	15.06
I,4-DICHLOROBENZENE	16.89	16.39	17.39

Internal Standard	CVS Response	50%	200%
Pentafluorobenzene	1241586	620793	2483172
1,4-Difluorobenzene	1720455	860228	3440910
Chlorobenzene	1501037	750519	3002074
1,4-Dichlorobenzene	749187	374594	1498374

V060513

Response Factor Report OVGCMS2

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

IG 06/04/13

Calibration Files

1	=2F3011.D	5	=2F3004.D	20	=2F3012.D
50	=2F3006.D	100	=2F3007.D	200	=2F3008.D

		Compound	1	5	20	50	100	200	Avg	%RSD	
1)	i	Pentafluorobenzene(IS	----------	----------	----------	ISTD	----------	----------	----------		400
2)		Dichlorodifluoromet	0.621	0.590	0.756	0.694	0.738	0.690	0.682	9.49	
3)	**	Chloromethane	0.896	0.741	0.867	0.734	0.789	0.754	0.797	8.63	
4)	*	Vinyl Chloride	0.752	0.722	0.792	0.716	0.778	0.703	0.744	4.85	
5)		Bromomethane	0.293	0.276	0.300	0.273	0.241	—	0.277	8.36	
6)		Chloroethane	0.300	0.351	0.317	0.284	0.233	—	0.297	14.66	
7)		Trichlorofluorometh	0.622	0.566	0.720	0.637	0.641	—	0.637	8.66	
8)		Trichlorotrifluoroe	0.356	0.379	0.429	0.403	0.391	0.349	0.385	7.80	
9)		acrolein	0.108	0.080	0.091	0.087	0.083	0.081	0.088#	11.48	
10)		Acetone	—	0.308	0.285	0.248	0.260	0.237	0.259	13.24	400
11)	*m	1,1-Dichloroethene	0.340	0.319	0.341	0.327	0.306	0.280	0.319	7.25	
12)		3-Chloropropene	0.360	0.304	0.296	0.298	0.293	0.279	0.299	10.14	400
13)		Acetonitrile	0.109	0.085	0.096	0.093	0.094	0.089	0.093#	8.50	400
14)		Iodomethane	0.824	0.611	0.702	0.717	0.671	0.623	0.681	11.17	400
15)		Carbon disulfide	1.623	1.515	1.531	1.405	1.304	1.211	1.395	12.24	400
16)		Methylene Chloride	0.638	0.565	0.586	0.576	0.578	0.515	0.576	6.84	
17)		Methyl tert-butyl e	1.744	1.541	1.620	1.551	1.566	1.370	1.565	7.76	
18)		Acrylonitrile	0.298	0.239	0.241	0.223	0.226	0.196	0.237	14.28	
19)		T-1,2-Dichloroethen	0.543	0.545	0.550	0.546	0.531	0.469	0.531	5.82	
20)		Isopropyl Ether	2.419	2.256	2.280	2.156	2.143	1.865	2.187	8.53	
21)		C-1,2-Dichloroethen	0.611	0.567	0.556	0.557	0.566	0.491	0.558	6.88	
22)	**	1,1-Dichloroethane	1.081	0.988	1.008	0.976	0.973	0.861	0.981	7.27	
23)		Vinyl Acetate	2.163	1.817	1.876	1.763	1.702	1.530	1.808	11.64	
24)		Chloroprene	0.749	0.724	0.863	0.832	0.819	0.771	0.782	7.27	400
25)		2-Butanone	0.093	0.072	0.077	0.074	0.075	0.074	0.076#	10.30	400
26)		Propionitrile	0.110	0.093	0.094	0.083	0.079	—	0.092#	13.30	
27)		2,2-Dichloropropane	0.765	0.763	0.764	0.740	0.753	0.674	0.743	4.70	
28)		Methacrylonitrile	0.276	0.224	0.229	0.200	0.215	—	0.229	12.56	
29)	*	Chloroform	0.948	0.894	0.926	0.888	0.883	0.767	0.884	7.10	
30)	s	Dibromofluoromethan	—	0.622	0.542	0.435	0.564	0.472	0.527	14.11	
31)		Dibromofluoromethan	—	0.622	0.542	0.435	0.564	0.472	0.527	14.11	
32)		Bromochloromethane	0.371	0.303	0.298	0.287	0.285	0.249	0.299	13.40	
33)		1,1,1-Trichloroetha	0.629	0.678	0.698	0.676	0.694	0.619	0.666	5.08	
34)		1,1-Dichloropropene	0.738	0.752	0.738	0.710	0.726	0.643	0.718	5.48	
35)		Diethyl ether	0.385	0.350	0.416	0.381	0.377	0.343	0.375	7.06	
36)		Methyl Acetate	0.118	0.120	0.118	0.108	0.111	0.098	0.112	7.33	
37)		Cyclohexane	0.910	0.945	0.981	0.962	0.925	0.793	0.919	7.27	
38)	i	1,4-Difluorobenzene(I	----------	----------	----------	ISTD	----------	----------	----------		
39)		Methyl Cyclohexane	0.730	0.537	0.565	0.545	0.564	0.512	0.575	13.57	
40)		Carbon Tetrachlorid	0.366	0.391	0.416	0.422	0.435	0.401	0.405	6.11	
41)		1,2-Dichloroethane	0.522	0.479	0.514	0.493	0.526	0.498	0.505	3.64	
42)	m	Benzene	1.465	1.374	1.272	1.251	1.252	1.167	1.297	8.13	
43)		Isobutyl Alcohol	0.050	0.045	0.046	0.044	0.044	0.042	0.045#	6.50	
44)	s	1,2-Dichloroethane-	—	0.444	0.436	0.322	0.451	0.423	0.415	12.80	
45)		1,2-Dichloroethane-	—	0.444	0.436	0.322	0.451	0.423	0.415	12.80	
46)	m	Trichloroethene	0.363	0.359	0.365	0.359	0.369	0.332	0.358	3.66	
47)	*	1,2-Dichloropropane	0.396	0.392	0.389	0.370	0.395	0.364	0.384	3.57	
48)		Methyl Methacrylate	0.122	0.112	0.128	0.125	0.128	0.132	0.121	9.43	400
49)		1,4-Dioxane	0.007	0.006	0.006	0.005	0.006	0.006	0.006#	10.37	400
50)		Bromodichloromethan	0.452	0.480	0.481	0.471	0.512	0.475	0.478	4.09	
51)		Dibromomethane	0.259	0.253	0.248	0.247	0.263	0.250	0.253	2.52	
52)		4-Methyl-2-Pentanon	0.082	0.060	0.076	0.066	0.066	0.069	0.068#	14.19	400

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report OVGCMS2

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

Calibration Files
1 =2F3011.D 5 =2F3004.D 20 =2F3012.D
50 =2F3006.D 100 =2F3007.D 200 =2F3008.D

		Compound	1	5	20	50	100	200	Avg	%RSD	
53)		2-Chloroethyl vinyl	0.010	0.010	0.008	0.008	0.008		0.009#	12.89	
54)		2-Hexanone		0.399	0.474	0.426	0.427	0.432	0.415	11.66	400
55)		C-1,3-Dichloroprope	0.624	0.632	0.663	0.638	0.692	0.639	0.648	3.87	
56)	s	D8-Toluene		1.286	1.232	0.985	1.236	1.107	1.169	10.47	
57)		D8-Toluene		1.286	1.232	0.985	1.236	1.107	1.169	10.47	
58)	i	Chlorobenzene-d5(IS)	----------ISTD----------								
59)	m*	Toluene	0.892	1.007	0.909	0.932	1.000	0.872	0.935	6.06	
60)		Ethyl Methacrylate	0.788	0.616	0.610	0.588	0.601	0.579	0.630	12.46	
61)		T-1,3-Dichloroprope	0.664	0.591	0.592	0.599	0.701	0.586	0.622	7.75	
62)		1,1,2-Trichloroetha	0.388	0.359	0.331	0.338	0.404	0.348	0.361	7.97	
63)		1,3-Dichloropropane	0.722	0.666	0.634	0.648	0.757	0.650	0.680	7.16	
64)		Tetrachloroethene	0.310	0.349	0.316	0.328	0.343	0.302	0.325	5.74	
65)		Dibromochloromethan	0.478	0.458	0.435	0.450	0.561	0.466	0.475	9.43	
66)		1,2-Dibromoethane	0.460	0.405	0.393	0.404	0.482	0.420	0.427	8.36	
67)	**m	Chlorobenzene	1.164	1.148	1.046	1.046	1.140	0.956	1.083	7.50	
68)		1,1,1,2-Tetrachloro	0.408	0.406	0.384	0.389	0.459	0.380	0.404	7.19	
69)	*	Ethylbenzene	0.529	0.516	0.490	0.504	0.557	0.490	0.514	5.02	
70)		m-xylene & p-xylene	0.665	0.694	0.626	0.641	0.679	0.576	0.647	6.58	
71)		O-Xylene	0.735	0.674	0.618	0.653	0.736	0.644	0.677	7.24	
72)	**	Bromoform	0.365	0.332	0.332	0.351	0.478	0.358	0.369	14.85	
73)		Styrene	0.993	0.953	0.991	1.054	1.266	1.065	1.054	10.64	
74)		Isopropylbenzene	1.701	1.719	1.587	1.677	1.847	1.555	1.681	6.18	
75)		1,2,3-Trichloroprop	0.743	0.652	0.637	0.622	0.760	0.602	0.669	9.86	
76)	**	1,1,2,2-Tetrachloro	0.636	0.536	0.539	0.526	0.683	0.506	0.571	12.43	
77)	s	Bromofluorobenzene		0.668	0.538	0.456	0.592	0.533	0.557	14.12	
78)		Bromofluorobenzene		0.668	0.538	0.456	0.592	0.533	0.557	14.12	
79)		T-1,4-dichloro-2-bu	0.225	0.170	0.174	0.170	0.170	0.164	0.175	13.31	400
80)		N-Propylbenzene	2.039	1.993	1.883	2.001	2.136	1.915	1.994	4.52	
81)	i	1,4-Dichlorobenzene-d	----------ISTD----------								
82)		Bromobenzene	1.035	0.984	1.018	0.938	1.085	0.838	0.983	8.82	
83)		1,3,5-Trimethylbenz	2.786	2.620	2.758	2.579	2.916	2.337	2.666	7.56	
84)		2-Chlorotoluene	2.769	2.694	2.721	2.469	2.806	2.155	2.602	9.55	
85)		4-Chlorotoluene	2.902	2.609	2.662	2.475	2.904	2.256	2.635	9.52	
86)		1,2,4-Trimethylbenz	2.753	2.569	2.610	2.467	2.844	2.185	2.571	9.03	
87)		s-Butylbenzene	3.673	3.553	3.644	3.516	3.946	3.088	3.570	7.86	
88)		tert-Butylbenzene	2.568	2.419	2.512	2.388	2.681	2.126	2.449	7.76	
89)		p-Isopropyltoluene	2.610	2.413	2.617	2.497	2.931	2.339	2.568	8.12	
90)		1,3-Dichlorobenzene	2.137	1.748	1.799	1.678	1.923	1.524	1.801	11.71	
91)		1,4-Dichlorobenzene	2.107	1.664	1.767	1.592	1.884	1.456	1.745	13.18	
92)		1,2-Dichlorobenzene	1.862	1.686	1.770	1.601	1.992	1.476	1.731	10.68	
93)		N-Butylbenzene	2.938	2.247	2.503	2.461	2.874	2.233	2.543	11.90	
94)		DBCP	0.236	0.210	0.231	0.197	0.266	0.202	0.224	11.58	
95)		Naphthalene	2.685	1.951	2.229	2.004	2.630	2.083	2.264	14.12	
96)		1,2,4-Trichlorobenz	1.366	0.963	1.074	0.999	1.229	1.000	1.105	14.44	
97)		Hexachlorobutadiene	0.671	0.515	0.557	0.567	0.643	0.549	0.584	10.29	
98)		1,2,3-Trichlorobenz	1.153	0.869	1.013	0.923	1.116	0.928	1.000	11.42	

(#) = Out of Range ### Number of calibration levels exceeded format ###

CC ISTD Areas

CC Data File : C:\HPCHEM\1\DATA\060313\2F3007.D
Date Acquired: 3 Jun 2013 15:51

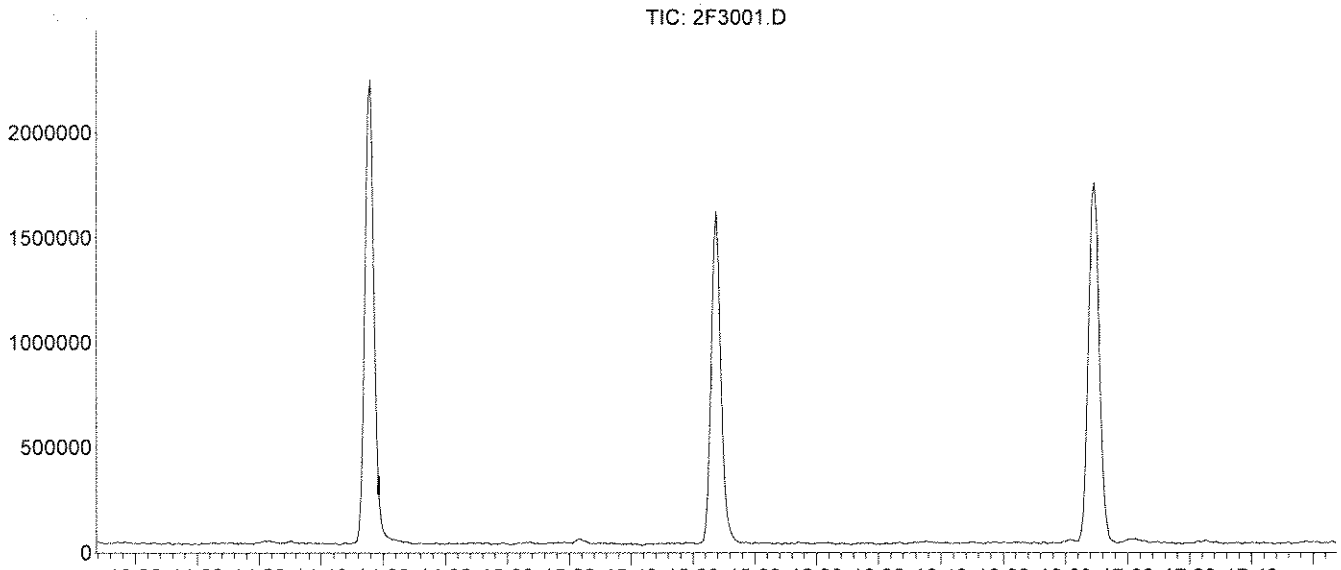
ISTD Name	Response
Pentafluorobenzene(IS)	1241590
1,4-Difluorobenzene(IS)	1720460
Chlorobenzene-d5(IS)	1501040
1,4-Dichlorobenzene-d4(IS)	749187

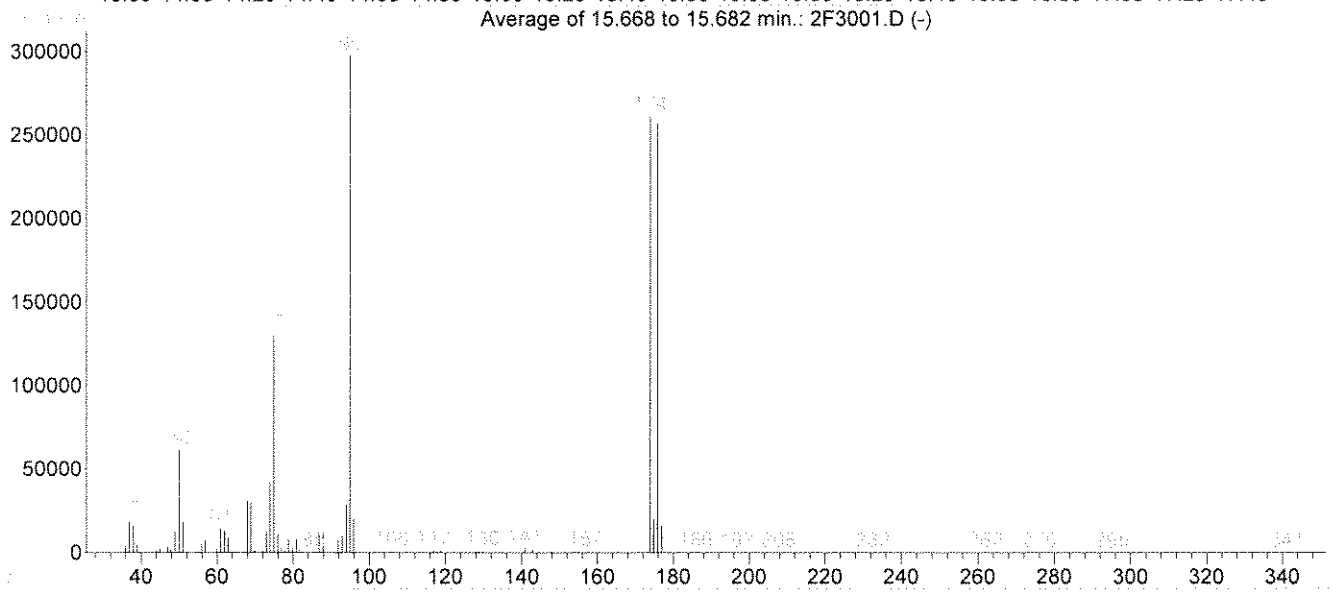
Surrogates

Dibromofluoromethane
1,2-Dichloroethane-d4
D8-Toluene
Bromofluorobenzene

BFB

Data File : C:\HPCHEM\1\DATA\060313\2F3001.D Vial: 1
Acq On : 3 Jun 2013 12:31 Operator: kat
Sample : bfb 50 ng Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004





AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1563

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	61678	PASS
75	95	30	60	43.8	130279	PASS
95	95	100	100	100.0	297544	PASS
96	95	5	9	7.0	20733	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.8	261184	PASS
175	174	5	9	7.6	19763	PASS
176	174	95	101	98.4	257131	PASS
177	176	5	9	6.1	15775	PASS

KT 060413

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3002.D
Acq On : 3 Jun 2013 13:03
Sample : icb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 12:14 2013

Vial: 2
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

1GD6/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1203780	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1793128	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1499493	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	704865	50.00	ug/kg	0.00

System Monitoring Compounds

30) Dibromofluoromethane	10.90	113	704997	55.54	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 111.08%			
44) 1,2-Dichloroethane-d4	11.48	65	732011	49.15	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 98.30%			
56) D8-Toluene	13.17	98	2130860	50.82	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 101.64%			
77) Bromofluorobenzene	15.68	95	865797	51.79	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 103.58%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D.		
6) Chloroethane	0.00	64		N.D.		
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D.		
10) Acetone	0.00	43		N.D.	d	
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D.	d	
14) Iodomethane	0.00	142		N.D.	d	
15) Carbon disulfide	0.00	76		N.D.	d	
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.		
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	0.00	72		N.D.		
26) Propionitrile	0.00	54		N.D.		
27) 2,2-Dichloropropane	0.00	77		N.D.	d	
28) Methacrylonitrile	0.00	67		N.D.	d	
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	10.90	113	704997	55.54	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D.	d	
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3002.D Vial: 2
Acq On : 3 Jun 2013 13:03 Operator: kat
Sample : icb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:14 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	0.00	55		N.D. d	
40)	Carbon Tetrachloride	0.00	117		N.D.	
41)	1,2-Dichloroethane	0.00	62		N.D.	
42)	Benzene	0.00	78		N.D.	
43)	Isobutyl Alcohol	0.00	43		N.D. d	
45)	1,2-Dichloroethane-d4	11.48	65	732011	49.15 ug/kg#	93
46)	Trichloroethene	0.00	130		N.D.	
47)	1,2-Dichloropropane	0.00	63		N.D.	
48)	Methyl Methacrylate	0.00	100		N.D.	
49)	1,4-Dioxane	0.00	88		N.D. d	
50)	Bromodichloromethane	0.00	83		N.D.	
51)	Dibromomethane	0.00	93		N.D.	
52)	4-Methyl-2-Pentanone	0.00	100		N.D.	
53)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54)	2-Hexanone	0.00	43		N.D. d	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
57)	D8-Toluene	13.17	98	2130860	50.82 ug/kg	98
59)	Toluene	0.00	92		N.D.	
60)	Ethyl Methacrylate	0.00	69		N.D.	
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	1,1,2-Trichloroethane	0.00	97		N.D.	
63)	1,3-Dichloropropane	0.00	76		N.D.	
64)	Tetrachloroethene	0.00	164		N.D.	
65)	Dibromochloromethane	0.00	129		N.D.	
66)	1,2-Dibromoethane	0.00	107		N.D.	
67)	Chlorobenzene	0.00	112		N.D.	
68)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69)	Ethylbenzene	0.00	106		N.D.	
70)	m-xylene & p-xylene	0.00	106		N.D.	
71)	O-Xylene	0.00	106		N.D.	
72)	Bromoform	0.00	173		N.D.	
73)	Styrene	0.00	104		N.D.	
74)	Isopropylbenzene	0.00	105		N.D.	
75)	1,2,3-Trichloropropane	0.00	75		N.D.	
76)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78)	Bromofluorobenzene	15.68	95	865797	51.79 ug/kg#	83
79)	T-1,4-dichloro-2-butene	0.00	53		N.D.	
80)	N-Propylbenzene	0.00	91		N.D.	
82)	Bromobenzene	0.00	156		N.D.	
83)	1,3,5-Trimethylbenzene	0.00	105		N.D.	
84)	2-Chlorotoluene	0.00	91		N.D.	
85)	4-Chlorotoluene	0.00	91		N.D.	
86)	1,2,4-Trimethylbenzene	0.00	105		N.D.	
87)	s-Butylbenzene	0.00	105		N.D.	
88)	tert-Butylbenzene	0.00	119		N.D.	
89)	p-Isopropyltoluene	0.00	119		N.D.	
90)	1,3-Dichlorobenzene	0.00	146		N.D.	
91)	1,4-Dichlorobenzene	0.00	146		N.D.	
92)	1,2-Dichlorobenzene	0.00	146		N.D.	
93)	N-Butylbenzene	0.00	91		N.D.	
94)	DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3002.D Vial: 2
Acq On : 3 Jun 2013 13:03 Operator: kat
Sample : icb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:14 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

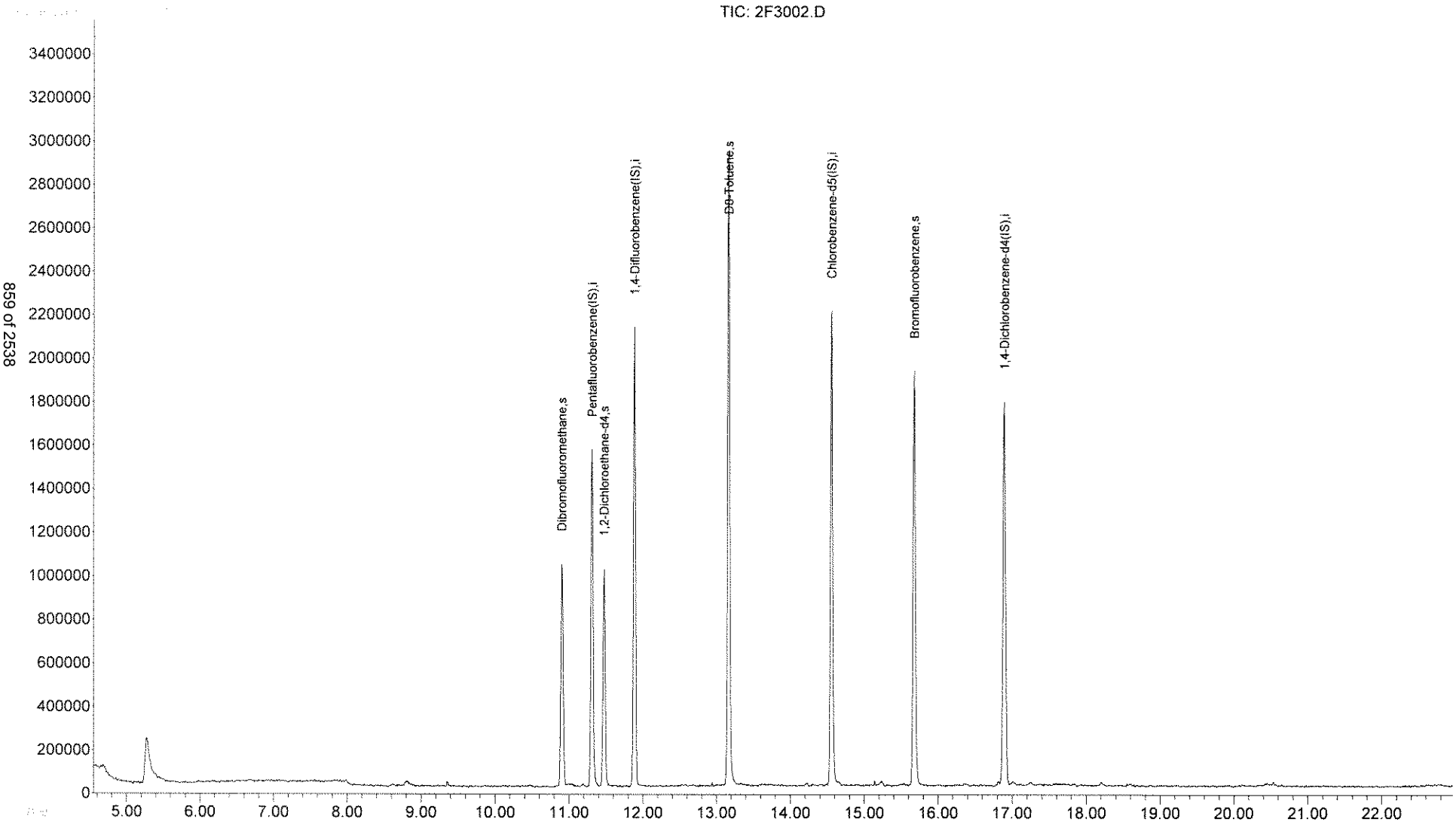
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3002.D
Acq On : 3 Jun 2013 13:03
Sample : icb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 12:14 2013

Vial: 2
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:50 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

160604113

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1177625m	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1788256m	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1520396	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	717534m	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	30091	1.96	ug/kg	0.01
Spiked Amount 50.000	Range 72 - 133		Recovery	=	3.92%#	
44) 1,2-Dichloroethane-d4	11.48	65	34490	2.14	ug/kg	0.01
Spiked Amount 50.000	Range 67 - 146		Recovery	=	4.28%#	
56) D8-Toluene	13.17	98	101637	2.36	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery	=	4.72%#	
77) Bromofluorobenzene	15.68	95	50360	2.68	ug/kg	0.01
Spiked Amount 50.000	Range 71 - 126		Recovery	=	5.36%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.84	85	14626	0.77	ug/kg	63
3) Chloromethane	5.39	50	21105	0.72	ug/kg	70
4) Vinyl Chloride	5.61	62	17706	0.75	ug/kg	83
5) Bromomethane	6.41	94	6904	0.93	ug/kg	80
6) Chloroethane	6.69	64	7068	0.94	ug/kg	69
7) Trichlorofluoromethane	6.98	101	14645	0.88	ug/kg	99
8) Trichlorotrifluoroethane	7.96	101	8376	0.97	ug/kg	8
9) acrolein	8.44	56	25321	16.41	ug/kg	88
10) Acetone	8.86	43	13079	1.71	ug/kg	95
11) 1,1-Dichloroethene	7.90	96	7997	1.15	ug/kg	89
12) 3-Chloropropene	8.64	76	8474	0.93	ug/kg	71
13) Acetonitrile	9.52	41	25780	8.73	ug/kg	70
14) Iodomethane	8.16	142	19408	1.00	ug/kg	89
15) Carbon disulfide	7.99	76	38225	1.07	ug/kg	73
16) Methylene Chloride	8.79	84	15025	1.12	ug/kg#	83
17) Methyl tert-butyl ether	9.14	73	41076	1.32	ug/kg	100
18) Acrylonitrile	9.89	53	70253	11.75	ug/kg	98
19) T-1,2-Dichloroethene	9.02	96	12799	1.00	ug/kg	92
20) Isopropyl Ether	9.60	45	56971	1.12	ug/kg	99
21) C-1,2-Dichloroethene	10.44	96	14386	1.07	ug/kg	94
22) 1,1-Dichloroethane	9.82	63	25467	1.07	ug/kg	86
23) Vinyl Acetate	10.05	43	50949	0.91	ug/kg	92
24) Chloroprene	9.79	53	17641	0.74	ug/kg	89
25) 2-Butanone	11.04	72	2183	1.06	ug/kg#	74
26) Propionitrile	11.36	54	25995	10.16	ug/kg	100
27) 2,2-Dichloropropane	10.57	77	18019	1.04	ug/kg	87
28) Methacrylonitrile	11.38	67	65109	10.50	ug/kg	88
29) Chloroform	10.71	83	22338	1.05	ug/kg	89
31) Dibromofluoromethane	10.91	113	30091	1.96	ug/kg	100
32) Bromochloromethane	10.68	128	8730	1.17	ug/kg	88
33) 1,1,1-Trichloroethane	10.97	97	14806	0.93	ug/kg#	1
34) 1,1-Dichloropropene	11.09	75	17385	1.04	ug/kg	74
35) Diethyl ether	7.54	59	9066	0.99	ug/kg#	79
36) Methyl Acetate	9.00	74	2787	1.10	ug/kg	78
37) Cyclohexane	10.68	56	21428	0.88	ug/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:50 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	26103	1.33 ug/kg#	82
40) Carbon Tetrachloride	10.90	117	13078	0.98 ug/kg#	78
41) 1,2-Dichloroethane	11.55	62	18670	1.08 ug/kg	99
42) Benzene	11.35	78	52390	1.27 ug/kg#	36
43) Isobutyl Alcohol	11.38	43	35878	23.26 ug/kg	41
45) 1,2-Dichloroethane-d4	11.48	65	34490	2.14 ug/kg	92
46) Trichloroethene	11.89	130	12979	1.08 ug/kg#	1
47) 1,2-Dichloropropane	12.41	63	14178	1.08 ug/kg	91
48) Methyl Methacrylate	12.49	100	4365	0.90 ug/kg#	1
49) 1,4-Dioxane	12.60	88	4673	25.12 ug/kg	83
50) Bromodichloromethane	12.44	83	16160	1.02 ug/kg#	100
51) Dibromomethane	12.32	93	9256	1.09 ug/kg	85
52) 4-Methyl-2-Pentanone	13.50	100	2935	1.16 ug/kg	81
53) 2-Chloroethyl vinyl ether	13.02	63	347	1.85 ug/kg	38
54) 2-Hexanone	14.20	43	20588	1.13 ug/kg	94
55) C-1,3-Dichloropropene	13.00	75	22312	1.03 ug/kg#	60
57) D8-Toluene	13.17	98	101637	2.36 ug/kg	99
59) Toluene	13.21	92	27119	1.01 ug/kg	86
60) Ethyl Methacrylate	13.59	69	23971	1.16 ug/kg#	75
61) T-1,3-Dichloropropene	13.55	75	20176	1.13 ug/kg	70
62) 1,1,2-Trichloroethane	13.70	97	11794	1.11 ug/kg	91
63) 1,3-Dichloropropane	13.96	76	21953	1.09 ug/kg	84
64) Tetrachloroethene	13.57	164	9435	1.05 ug/kg	93
65) Dibromochloromethane	13.89	129	14528	1.01 ug/kg#	92
66) 1,2-Dibromoethane	14.15	107	13999	1.10 ug/kg	98
67) Chlorobenzene	14.57	112	35404	1.15 ug/kg#	58
68) 1,1,1,2-Tetrachloroethane	14.61	131	12406	1.07 ug/kg#	1
69) Ethylbenzene	14.54	106	16081	1.06 ug/kg	91
70) m-xylene & p-xylene	14.66	106	40438	2.16 ug/kg	92
71) O-Xylene	15.07	106	22365	1.14 ug/kg	85
72) Bromoform	15.21	173	11114	1.14 ug/kg	94
73) Styrene	15.11	104	30195	0.91 ug/kg	75
74) Isopropylbenzene	15.34	105	51725	1.07 ug/kg	98
75) 1,2,3-Trichloropropane	15.99	75	22597	1.14 ug/kg	81
76) 1,1,2,2-Tetrachloroethane	15.80	83	19349	1.22 ug/kg	96
78) Bromofluorobenzene	15.68	95	50360	2.68 ug/kg#	80
79) T-1,4-dichloro-2-butene	15.99	53	6828	1.16 ug/kg	87
80) N-Propylbenzene	15.75	91	61990	1.07 ug/kg	96
82) Bromobenzene	15.83	156	14846	1.16 ug/kg	88
83) 1,3,5-Trimethylbenzene	15.90	105	39981	1.09 ug/kg	87
84) 2-Chlorotoluene	15.97	91	39731	1.16 ug/kg	91
85) 4-Chlorotoluene	16.14	91	41648	1.23 ug/kg	96
86) 1,2,4-Trimethylbenzene	16.33	105	39503	1.10 ug/kg	91
87) s-Butylbenzene	16.47	105	52711	1.10 ug/kg	93
88) tert-Butylbenzene	16.28	119	36856	1.14 ug/kg	95
89) p-Isopropyltoluene	16.60	119	37449	1.03 ug/kg	98
90) 1,3-Dichlorobenzene	16.82	146	30667	1.31 ug/kg	90
91) 1,4-Dichlorobenzene	16.91	146	30240	1.32 ug/kg	87
92) 1,2-Dichlorobenzene	17.46	146	26722	1.19 ug/kg	98
93) N-Butylbenzene	17.10	91	42161	1.19 ug/kg	93
94) DBCP	18.60	75	3384	1.24 ug/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:50 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.51	128	38536	1.05 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.79	180	19606	1.38 ug/kg	85
97) Hexachlorobutadiene	19.64	225	9628	1.52 ug/kg	94
98) 1,2,3-Trichlorobenzene	20.94	180	16543	1.28 ug/kg	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

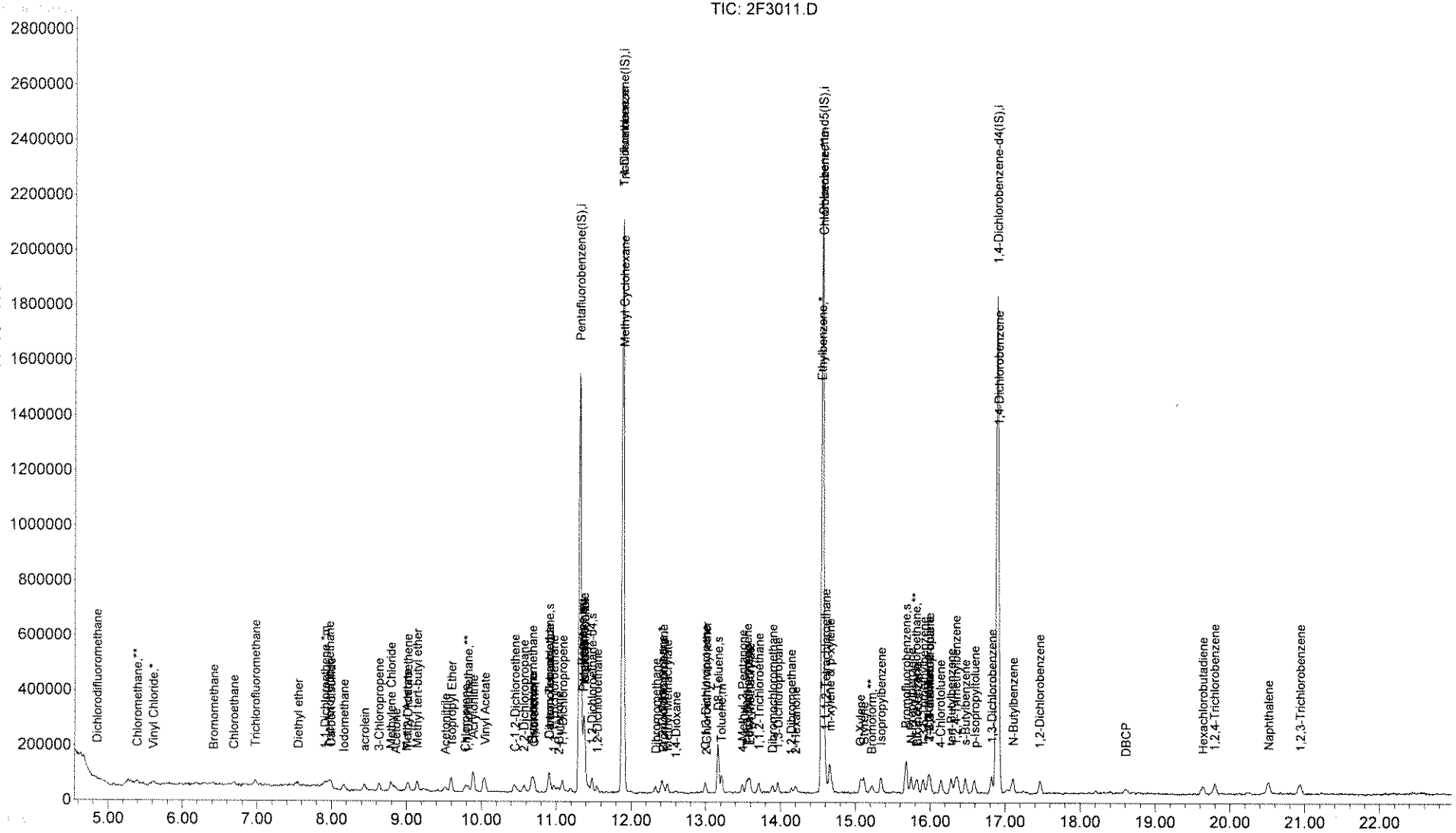
Data File : C:\HPCHEM\1\DATA\060313\2F3011.D
Acq On : 3 Jun 2013 18:07
Sample : 1 ppb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 11:50 2013

Vial: 11
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

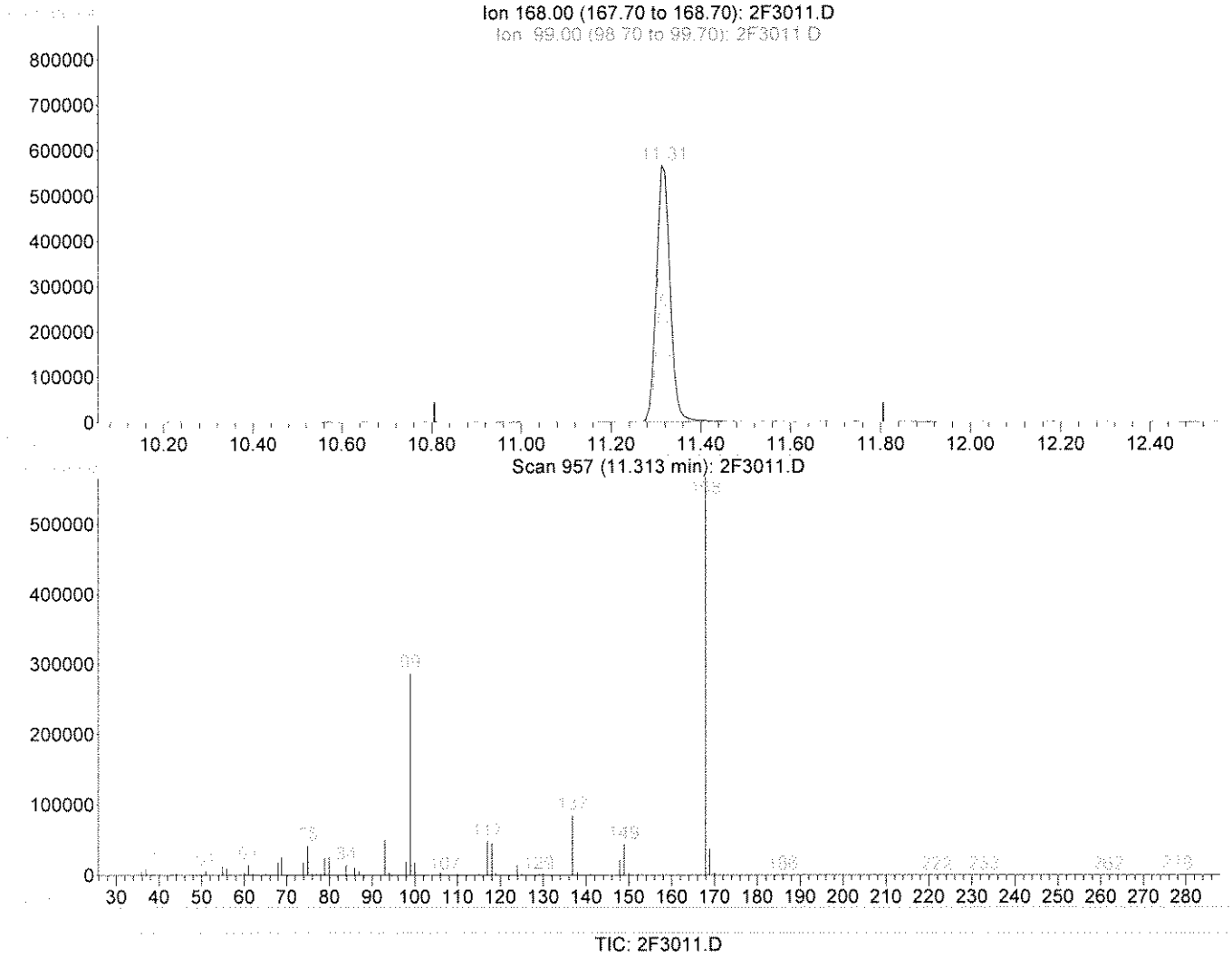
TIC: 2F3011.D



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration



(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg

response 1198833

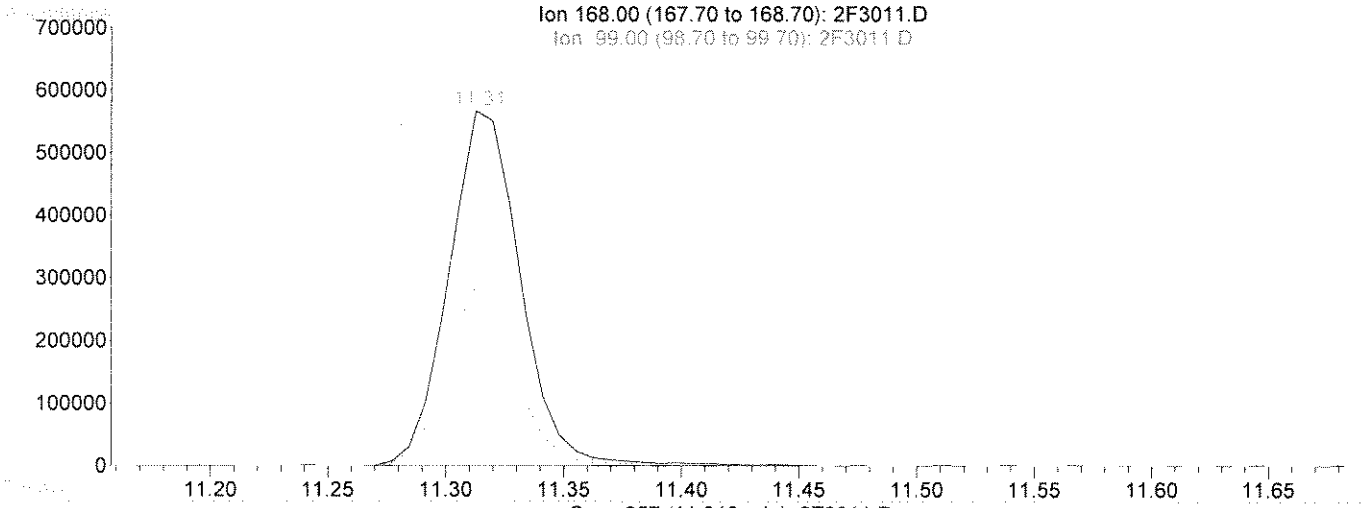
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	49.76
169.00	6.50	6.77
0.00	0.00	0.00

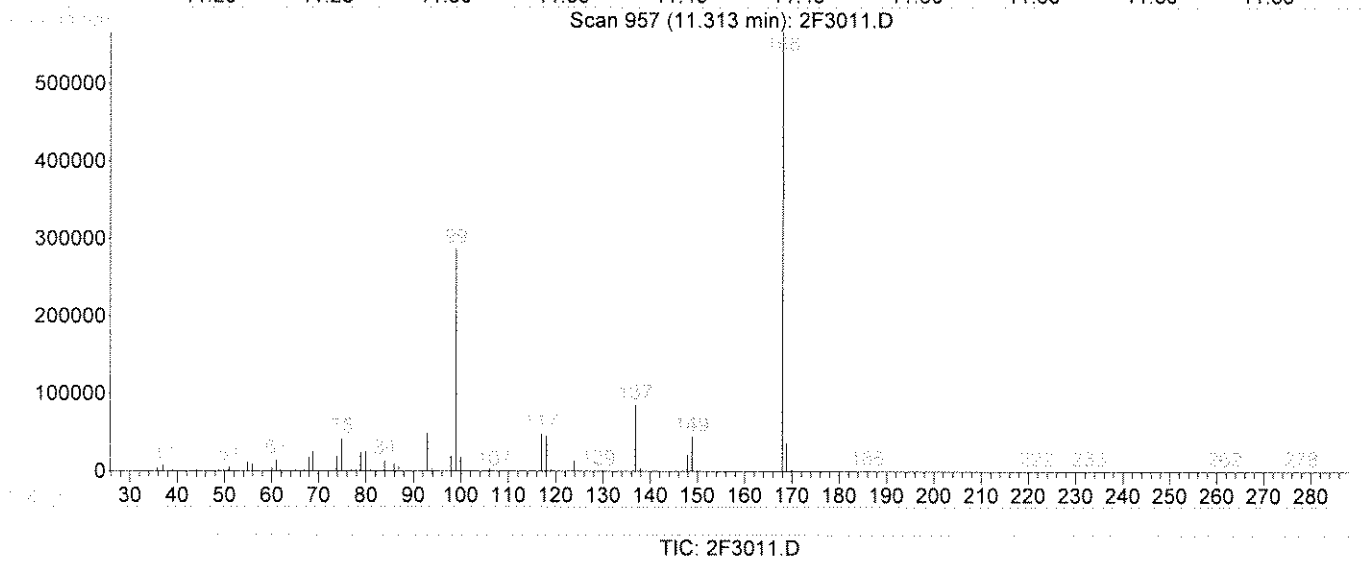
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LT 060413
Reviewed by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:03 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration





(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg m

response 1177625

Ion	Exp%	Act%
168.00	100	100
99.00	56.00	50.65
169.00	6.50	6.89
0.00	0.00	0.00

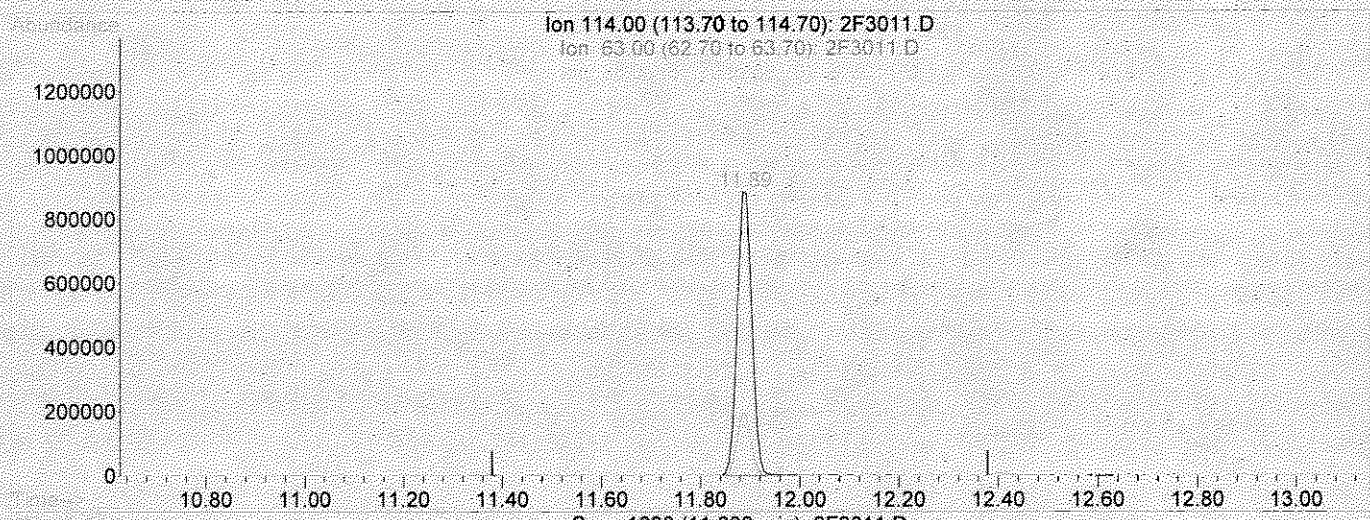
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: kt 060413
Review by/Date: KB 6-5-13

2F3011.D S1306004.M Tue Jun 04 11:03:58 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:47 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:48:32 2013
Response via : Multiple Level Calibration



(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/kg

response 1791040

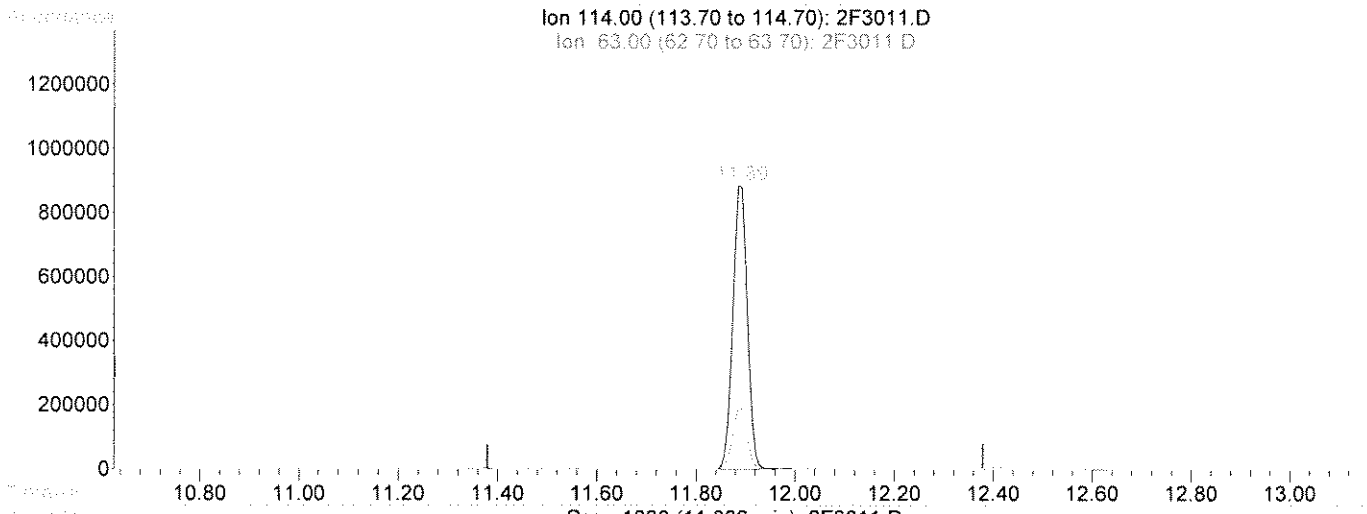
Ion	Exp%	Act%
114.00	100	100
63.00	25.60	21.44
88.00	18.20	16.82
0.00	0.00	0.00

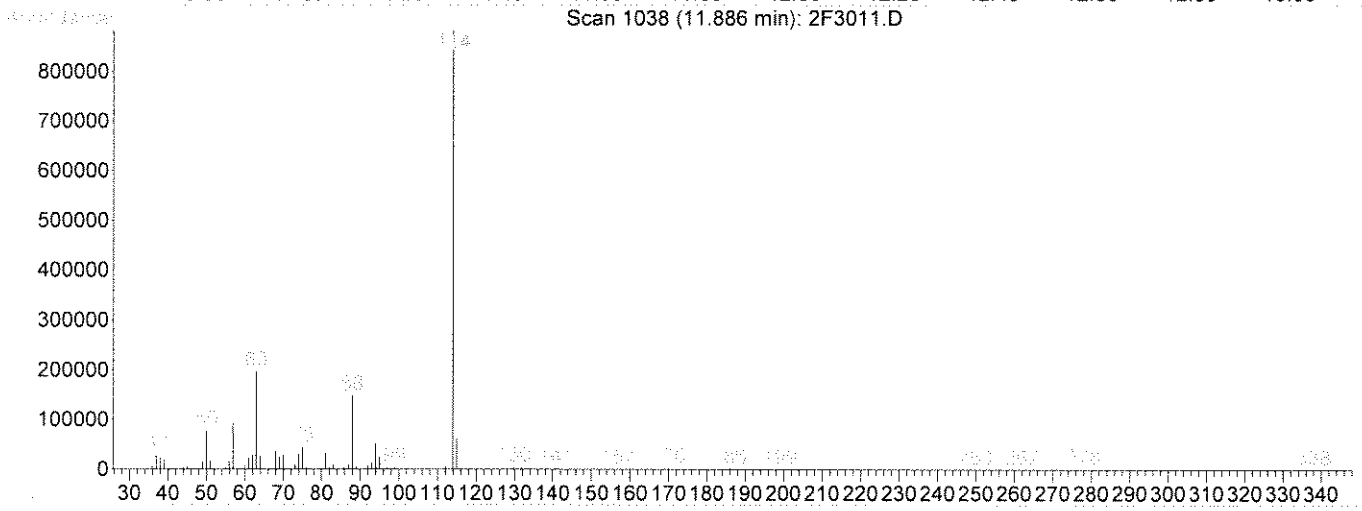
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KD 6/4/13
Review by/Date: KD 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3011.D

(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/kg m

response 1788256

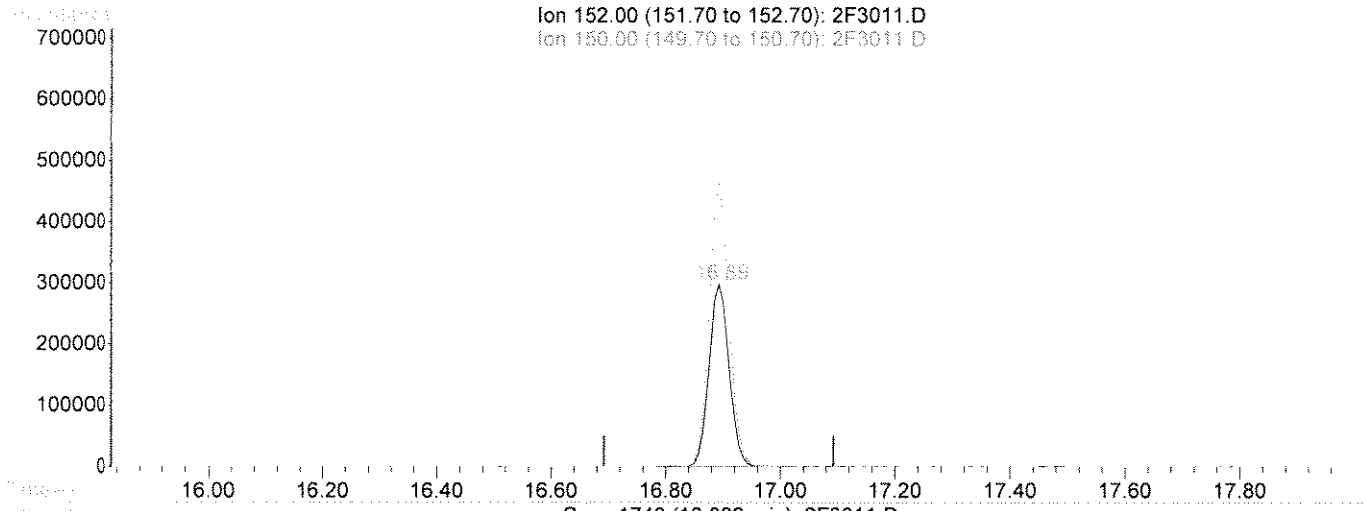
Ion	Exp%	Act%
114.00	100	100
63.00	25.60	21.47
88.00	18.20	16.85
0.00	0.00	0.00

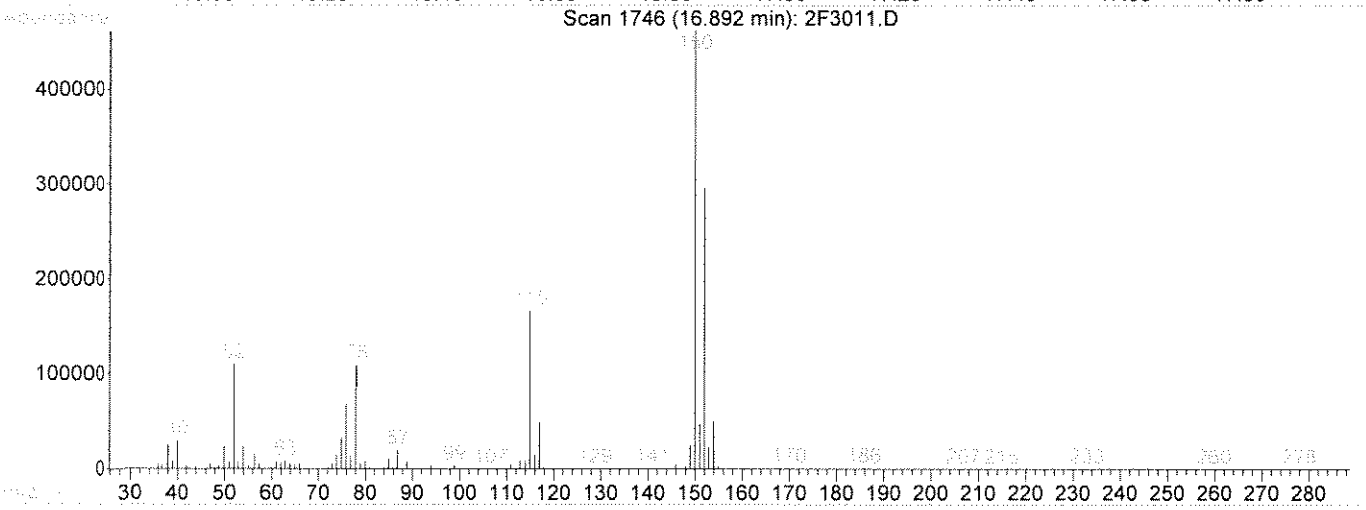
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date KD 6/4/13
Review by/Date: KG 6-5-P

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:04 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:07:30 2013
Response via : Multiple Level Calibration





(81) 1,4-Dichlorobenzene-d4(IS) (i)

16.89min 50.00ug/kg

response 716478

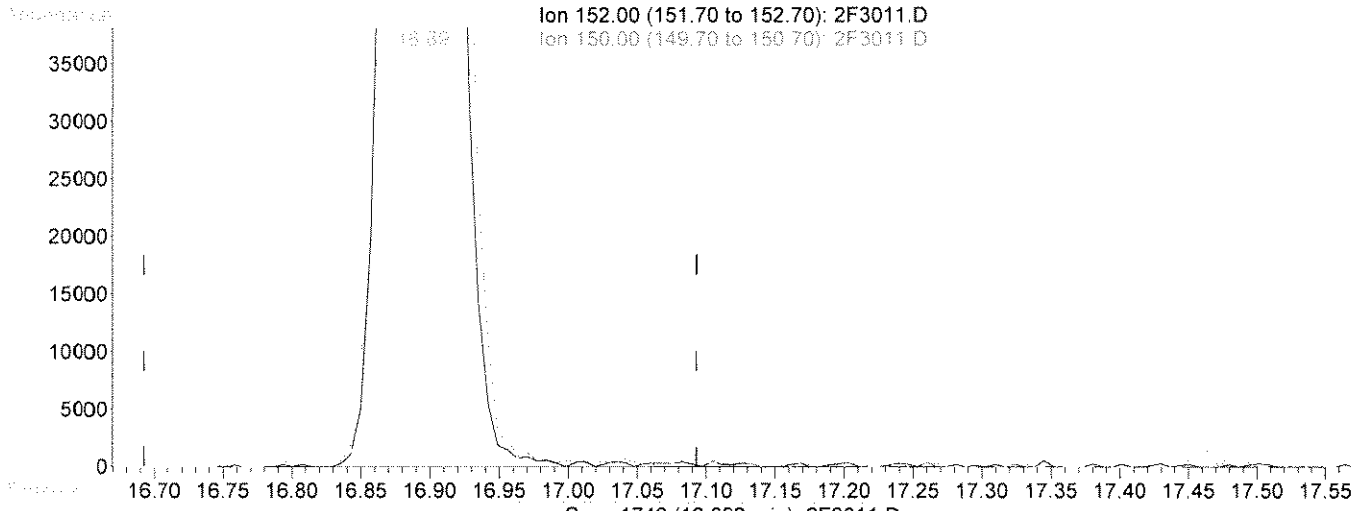
Ion	Exp%	Act%
152.00	100	100
150.00	165.40	153.99
115.00	61.10	56.26
0.00	0.00	0.00

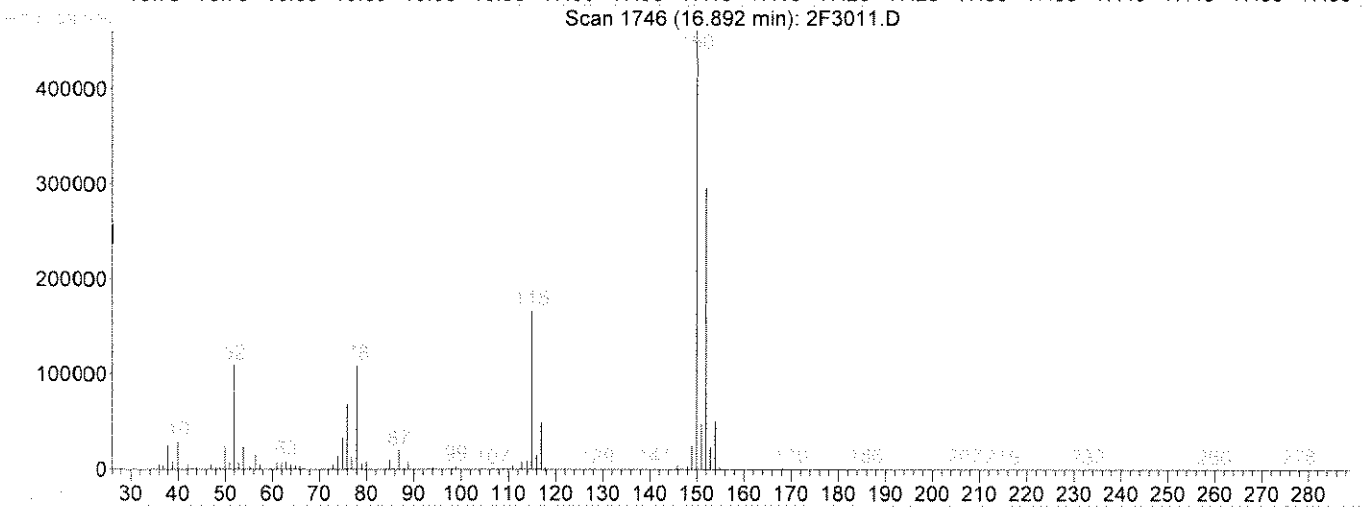
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT 060413
Review by/Date: KS 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3011.D Vial: 11
Acq On : 3 Jun 2013 18:07 Operator: kat
Sample : 1 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:07:30 2013
Response via : Multiple Level Calibration





TIC: 2F3011.D

(81) 1,4-Dichlorobenzene-d4(IS) (i)

16.89min 50.00ug/kg m

response 717534

Ion	Exp%	Act%
152.00	100	100
150.00	165.40	153.76
115.00	61.10	56.18
0.00	0.00	0.00

KT060413

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other: KT060413
Review by/Date KS 6-5-13
Review by/Date:

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KT060413

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1340723	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1966139	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1659167m	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	793307	50.00 ug/kg	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	83421	4.78 ug/kg	0.01
Spiked Amount 50.000	Range 72 - 133		Recovery	= 9.56%#	
44) 1,2-Dichloroethane-d4	11.48	65	87228	4.92 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery	= 9.84%#	
56) D8-Toluene	13.17	98	252851	5.34 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery	= 10.68%#	
77) Bromofluorobenzene	15.68	95	110866	5.41 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery	= 10.82%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.84	85	79149m	3.65 ug/kg	96
3) Chloromethane	5.39	50	99356	2.98 ug/kg	99
4) Vinyl Chloride	5.62	62	96811	3.60 ug/kg	81
5) Bromomethane	6.41	94	36959	4.36 ug/kg	96
6) Chloroethane	6.70	64	47044	5.51 ug/kg	80
7) Trichlorofluoromethane	6.99	101	75925m	3.98 ug/kg	95
8) Trichlorotrifluoroethane	7.95	101	50866	5.15 ug/kg	95
9) acrolein	8.44	56	107908	61.44 ug/kg	99
10) Acetone	8.87	43	41312m	4.75 ug/kg	97
11) 1,1-Dichloroethene	7.91	96	42721	5.40 ug/kg	92
12) 3-Chloropropene	8.63	76	40744	3.93 ug/kg	85
13) Acetonitrile	9.51	41	114442	34.04 ug/kg	84
14) Iodomethane	8.17	142	81855	3.72 ug/kg	90
15) Carbon disulfide	7.99	76	203130	5.01 ug/kg	98
16) Methylene Chloride	8.80	84	75789	4.95 ug/kg	88
17) Methyl tert-butyl ether	9.15	73	206590	5.85 ug/kg	98
18) Acrylonitrile	9.89	53	320749	47.13 ug/kg	96
19) T-1,2-Dichloroethene	9.02	96	73046	5.02 ug/kg	96
20) Isopropyl Ether	9.60	45	302466	5.24 ug/kg	100
21) C-1,2-Dichloroethene	10.44	96	76014	4.97 ug/kg	94
22) 1,1-Dichloroethane	9.83	63	132518	4.89 ug/kg#	68
23) Vinyl Acetate	10.06	43	243668	3.84 ug/kg	92
24) Chloroprene	9.79	53	97063	3.59 ug/kg	76
25) 2-Butanone	11.03	72	9603	4.09 ug/kg#	94
26) Propionitrile	11.36	54	124763	42.83 ug/kg	100
27) 2,2-Dichloropropane	10.58	77	102233	5.17 ug/kg	99
28) Methacrylonitrile	11.37	67	300681	42.61 ug/kg#	46
29) Chloroform	10.71	83	119813	4.93 ug/kg	91
31) Dibromofluoromethane	10.91	113	83421	4.78 ug/kg	100
32) Bromochloromethane	10.67	128	40665	4.78 ug/kg	83
33) 1,1,1-Trichloroethane	10.97	97	90921	5.01 ug/kg#	93
34) 1,1-Dichloropropene	11.08	75	100830	5.31 ug/kg	93
35) Diethyl ether	7.54	59	46870	4.50 ug/kg#	86
36) Methyl Acetate	9.00	74	16067	5.58 ug/kg	90
37) Cyclohexane	10.69	56	126716	4.60 ug/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	11.91	55	105547	4.89 ug/kg#	85
40)	Carbon Tetrachloride	10.90	117	76822	5.22 ug/kg	98
41)	1,2-Dichloroethane	11.55	62	94132	4.94 ug/kg	92
42)	Benzene	11.35	78	270214	5.96 ug/kg#	45
43)	Isobutyl Alcohol	11.41	43	178759m	105.40 ug/kg	1
45)	1,2-Dichloroethane-d4	11.48	65	87228	4.92 ug/kg	97
46)	Trichloroethene	11.90	130	70641	5.36 ug/kg#	70
47)	1,2-Dichloropropane	12.41	63	77109	5.35 ug/kg	87
48)	Methyl Methacrylate	12.49	100	21994	4.12 ug/kg#	1
49)	1,4-Dioxane	12.59	88	21828	106.73 ug/kg#	57
50)	Bromodichloromethane	12.43	83	94288	5.42 ug/kg#	100
51)	Dibromomethane	12.33	93	49760	5.34 ug/kg	86
52)	4-Methyl-2-Pentanone	13.49	100	11858	4.27 ug/kg	75
53)	2-Chloroethyl vinyl ether	12.99	63	2012m	9.74 ug/kg	71
54)	2-Hexanone	14.20	43	78366	3.91 ug/kg	94
55)	C-1,3-Dichloropropene	13.00	75	124257	5.22 ug/kg	74
57)	D8-Toluene	13.17	98	252851	5.34 ug/kg	98
59)	Toluene	13.22	92	167140	5.69 ug/kg	99
60)	Ethyl Methacrylate	13.59	69	102160	4.52 ug/kg#	73
61)	T-1,3-Dichloropropene	13.55	75	98047	5.03 ug/kg	77
62)	1,1,2-Trichloroethane	13.71	97	59552	5.15 ug/kg	96
63)	1,3-Dichloropropane	13.97	76	110499	5.05 ug/kg	96
64)	Tetrachloroethene	13.57	164	57899	5.93 ug/kg	88
65)	Dibromochloromethane	13.90	129	75979	4.82 ug/kg	96
66)	1,2-Dibromoethane	14.15	107	67151	4.82 ug/kg	91
67)	Chlorobenzene	14.57	112	190468	5.66 ug/kg	87
68)	1,1,1,2-Tetrachloroethane	14.61	131	67284	5.29 ug/kg#	1
69)	Ethylbenzene	14.54	106	85535	5.17 ug/kg	91
70)	m-xylene & p-xylene	14.66	106	230205	11.28 ug/kg	79
71)	O-Xylene	15.07	106	111839	5.21 ug/kg	96
72)	Bromoform	15.21	173	55070	5.16 ug/kg	92
73)	Styrene	15.11	104	158144	4.38 ug/kg	84
74)	Isopropylbenzene	15.34	105	285143	5.39 ug/kg	100
75)	1,2,3-Trichloropropane	16.00	75	108232	4.99 ug/kg	98
76)	1,1,2,2-Tetrachloroethane	15.80	83	88963	5.15 ug/kg	97
78)	Bromofluorobenzene	15.68	95	110866	5.41 ug/kg#	68
79)	T-1,4-dichloro-2-butene	15.99	53	28271	4.38 ug/kg#	66
80)	N-Propylbenzene	15.75	91	330664	5.25 ug/kg	95
82)	Bromobenzene	15.83	156	78091	5.51 ug/kg	80
83)	1,3,5-Trimethylbenzene	15.90	105	207832	5.13 ug/kg	90
84)	2-Chlorotoluene	15.97	91	213732	5.62 ug/kg	98
85)	4-Chlorotoluene	16.14	91	206944	5.51 ug/kg	91
86)	1,2,4-Trimethylbenzene	16.34	105	203828	5.14 ug/kg	97
87)	s-Butylbenzene	16.47	105	281852	5.31 ug/kg	92
88)	tert-Butylbenzene	16.28	119	191886	5.35 ug/kg	94
89)	p-Isopropyltoluene	16.59	119	191399	4.76 ug/kg	97
90)	1,3-Dichlorobenzene	16.82	146	138668	5.36 ug/kg	91
91)	1,4-Dichlorobenzene	16.91	146	131969	5.21 ug/kg	98
92)	1,2-Dichlorobenzene	17.47	146	133741	5.40 ug/kg	96
93)	N-Butylbenzene	17.10	91	178235	4.55 ug/kg	93
94)	DBCP	18.61	75	16676	5.53 ug/kg	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.51	128	154806m	3.82 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.80	180	76360	4.85 ug/kg	89
97) Hexachlorobutadiene	19.64	225	40869	5.85 ug/kg	97
98) 1,2,3-Trichlorobenzene	20.93	180	68908	4.81 ug/kg	94

(#) = qualifier out of range (m) = manual integration

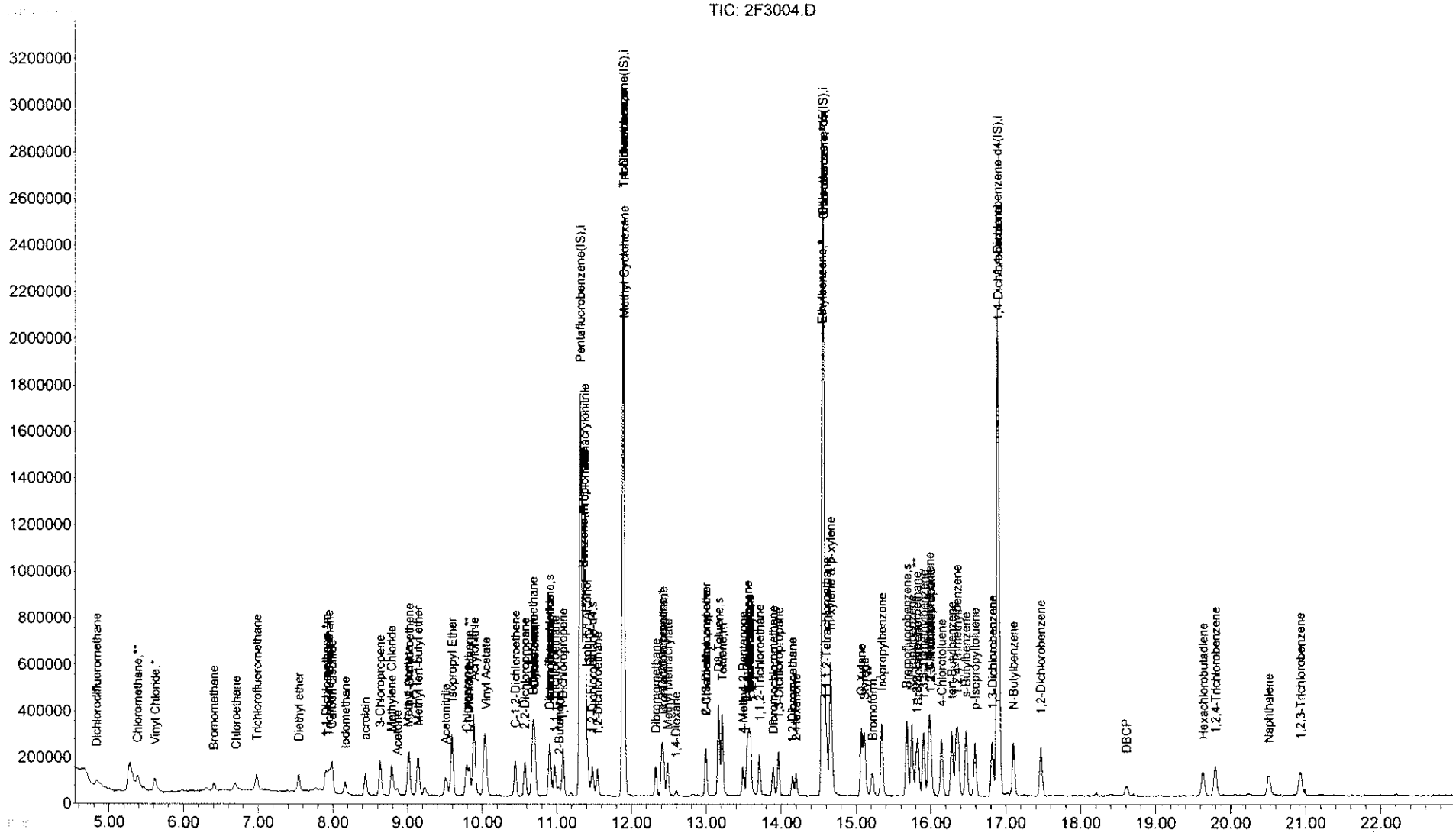
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D
Acq On : 3 Jun 2013 14:09
Sample : 5 ppb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013

Vial: 4
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

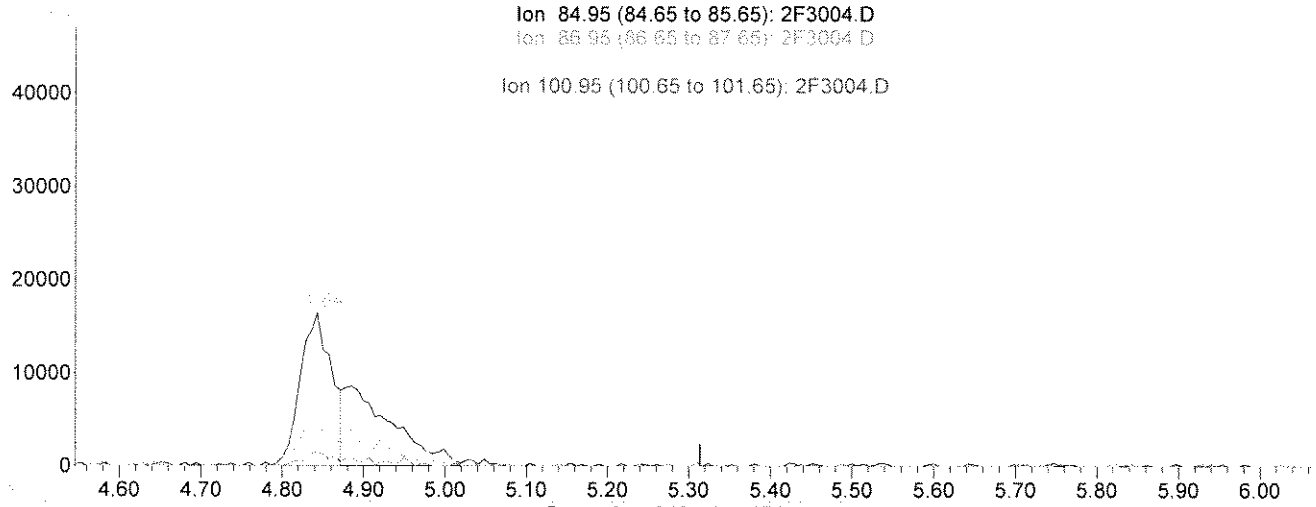
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

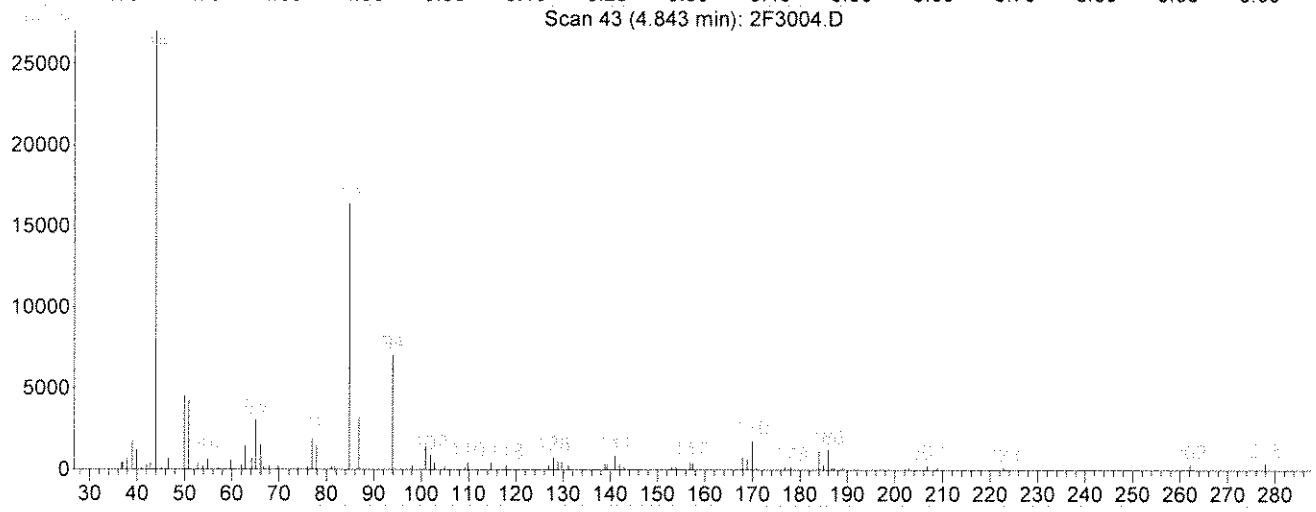


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(2) Dichlorodifluoromethane

4.84min 2.03ug/kg

response 44129

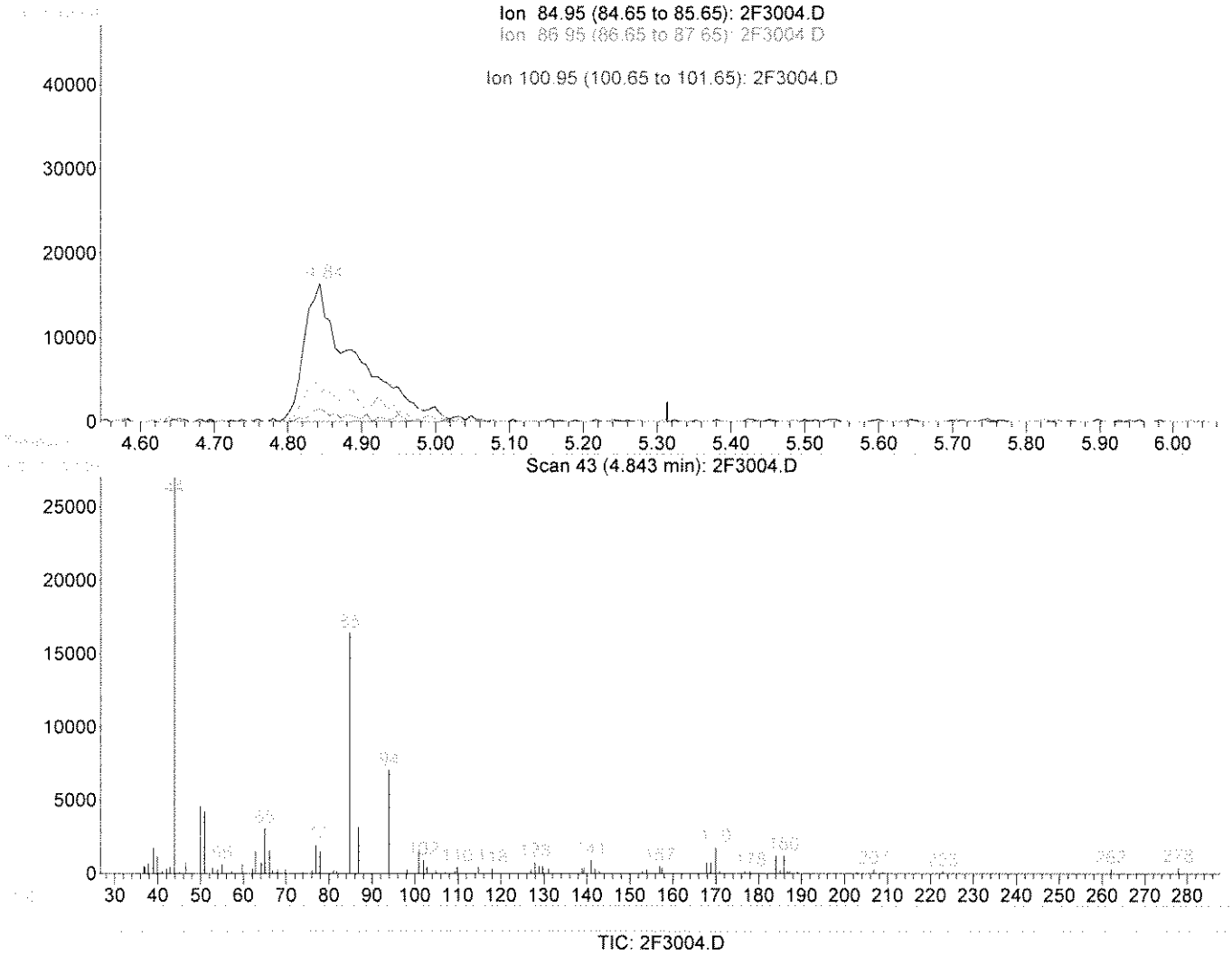
Ion	Exp%	Act%
84.95	100	100
86.95	32.20	29.05
50.00	17.50	18.99
100.95	8.30	7.48

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT 060413
Review by/Date: KB 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

4.84min 3.65ug/kg m

response 79149

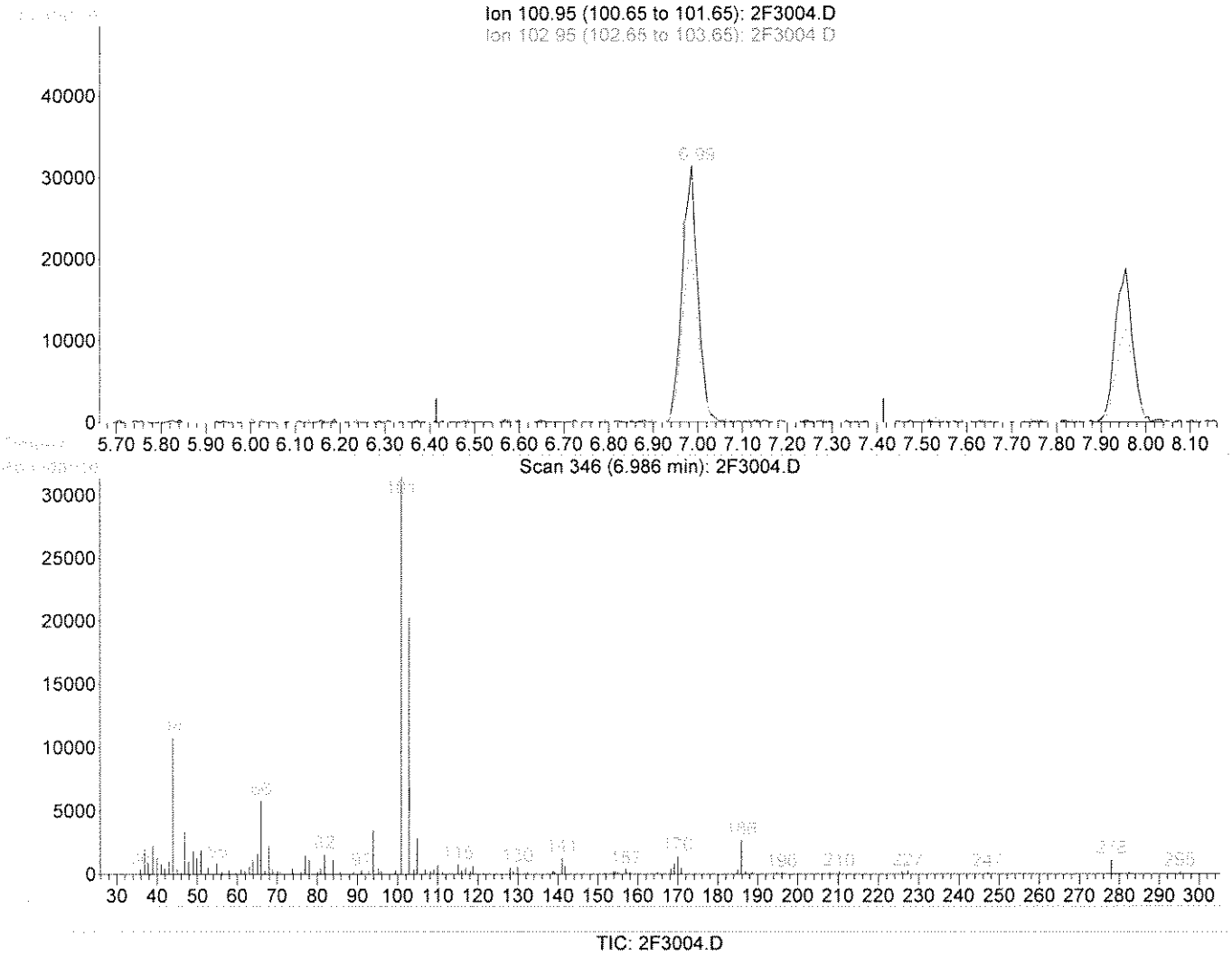
Ion	Exp%	Act%
84.95	100	100
86.95	32.20	16.19
50.00	17.50	10.59
100.95	8.30	4.17

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[✓] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 060413
Review by/Date: 06-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:15 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:21:32 2013
Response via : Multiple Level Calibration



(7) Trichlorofluoromethane

6.99min 3.98ug/kg

response 75927

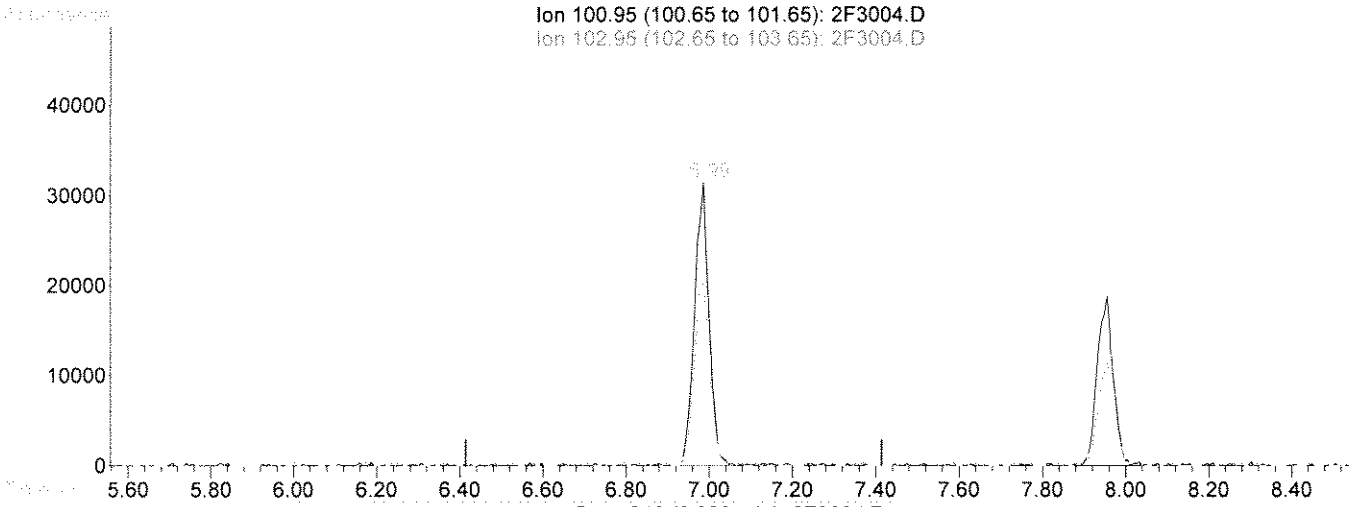
Ion	Exp%	Act%
100.95	100	100
102.95	65.60	69.45
66.00	16.10	18.36
0.00	0.00	0.00

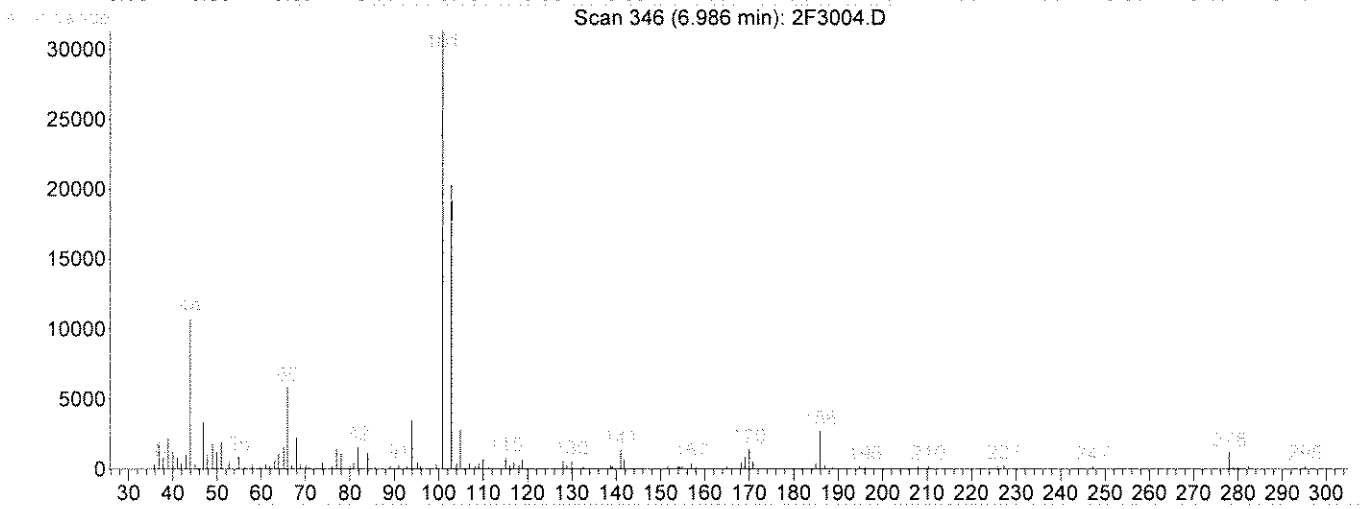
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[✓] Other:
Review by/Date 120604113
Review by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:24 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:24:12 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(7) Trichlorofluoromethane

6.99min 3.98ug/kg m

response 75925

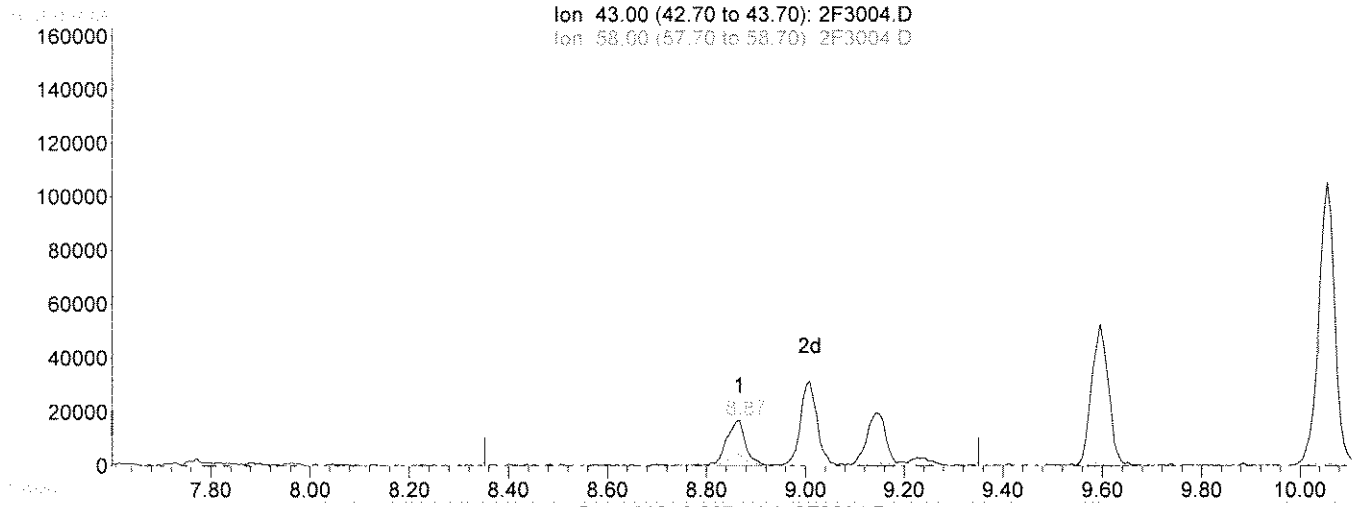
Ion	Exp%	Act%
100.95	100	100
102.95	65.60	69.45
66.00	16.10	18.36
0.00	0.00	0.00

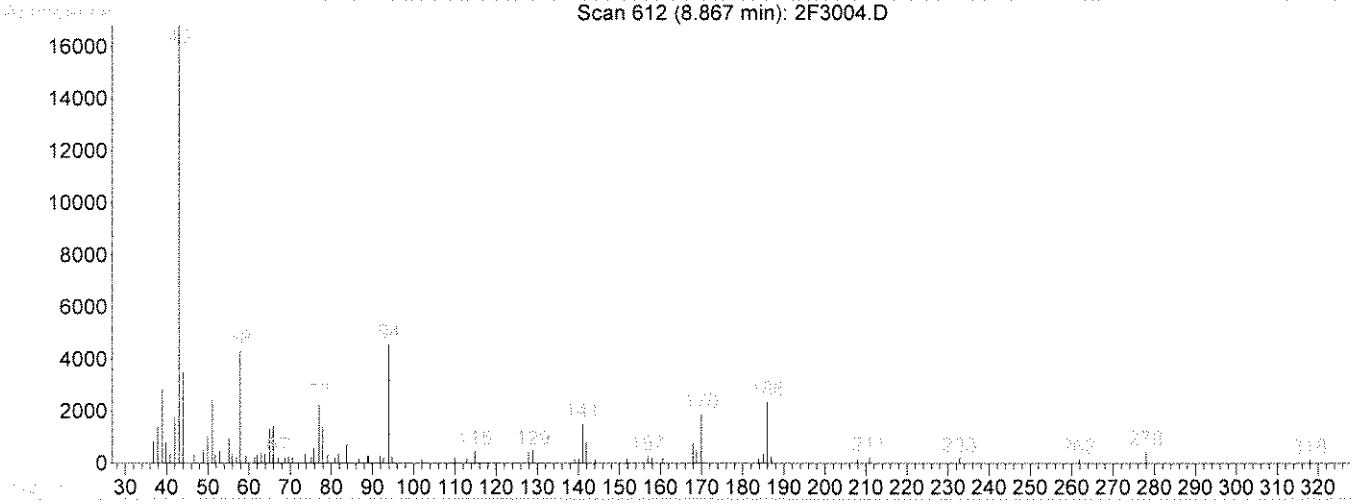
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[✓] Other: Deleted by accident.
Review by/Date 16.06.04.13
Review by/Date: [illegible]

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:24 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:37:15 2013
Response via : Multiple Level Calibration





(10) Acetone

8.87min 5.17ug/kg

response 44961

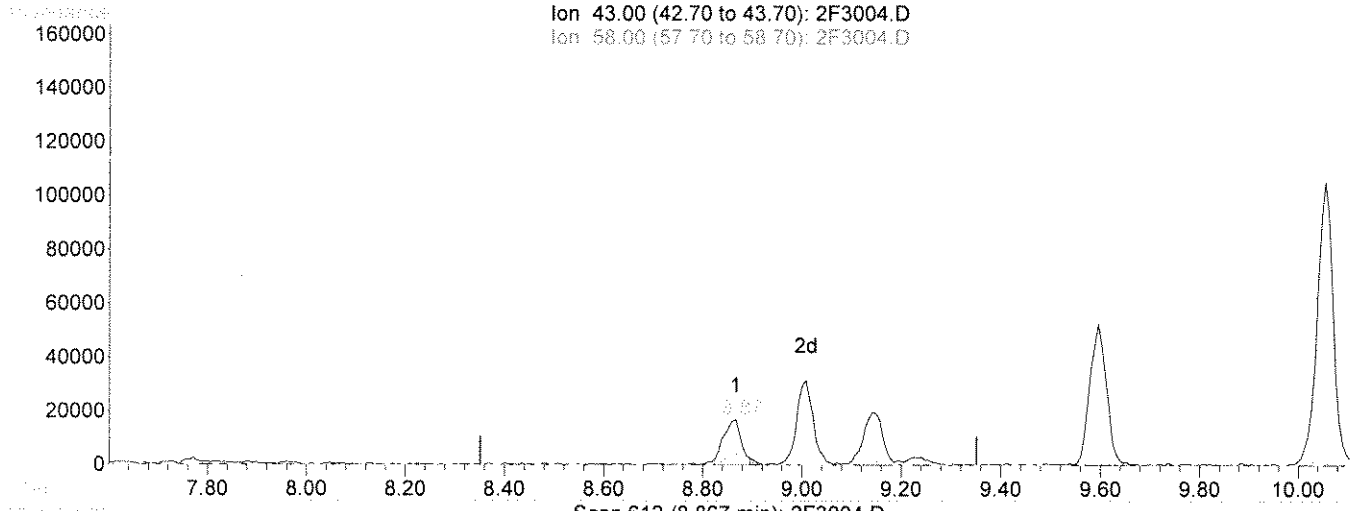
Ion	Exp%	Act%
43.00	100	100
58.00	25.00	23.35
0.00	0.00	0.00
0.00	0.00	0.00

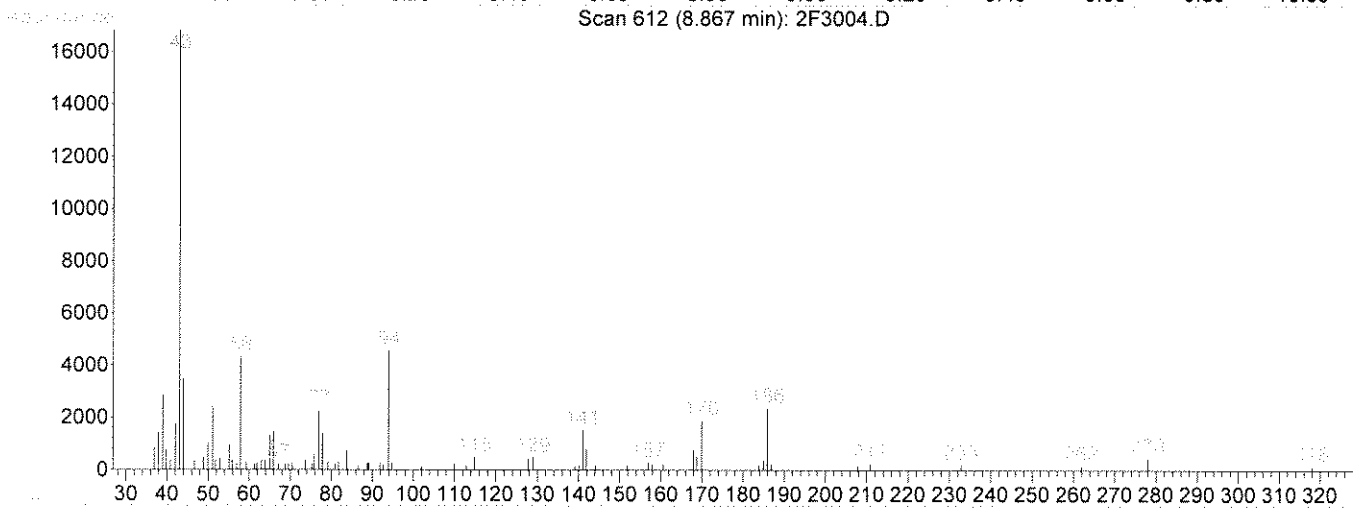
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: [illegible] 6-4-13
Review by/Date: [illegible] 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(10) Acetone

8.87min 4.75ug/kg m

response 41312

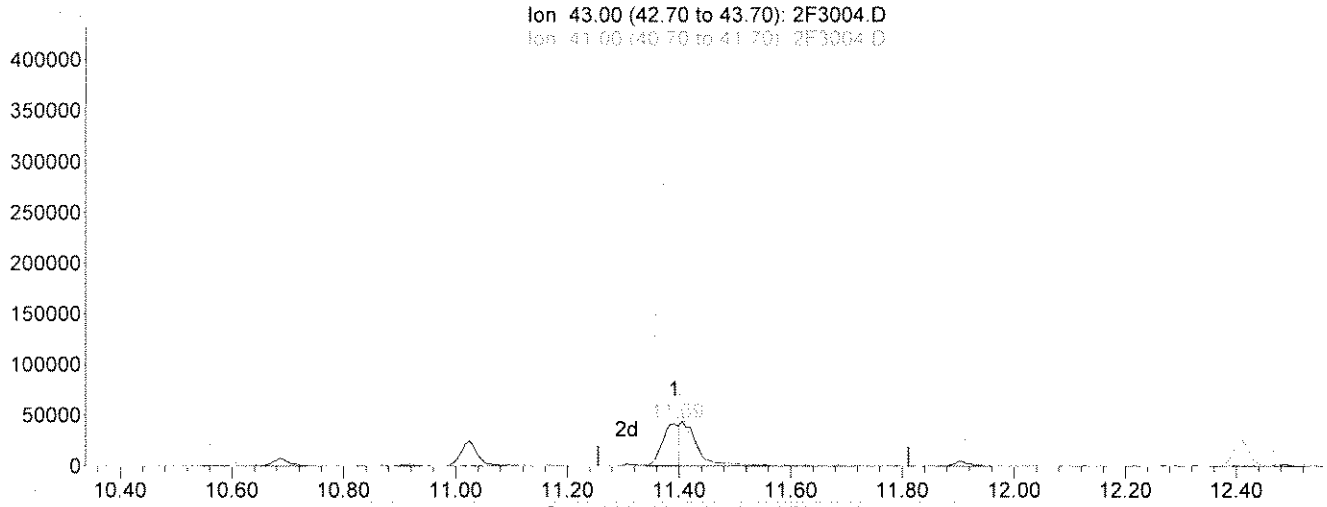
Ion	Exp%	Act%
43.00	100	100
58.00	25.00	25.41
0.00	0.00	0.00
0.00	0.00	0.00

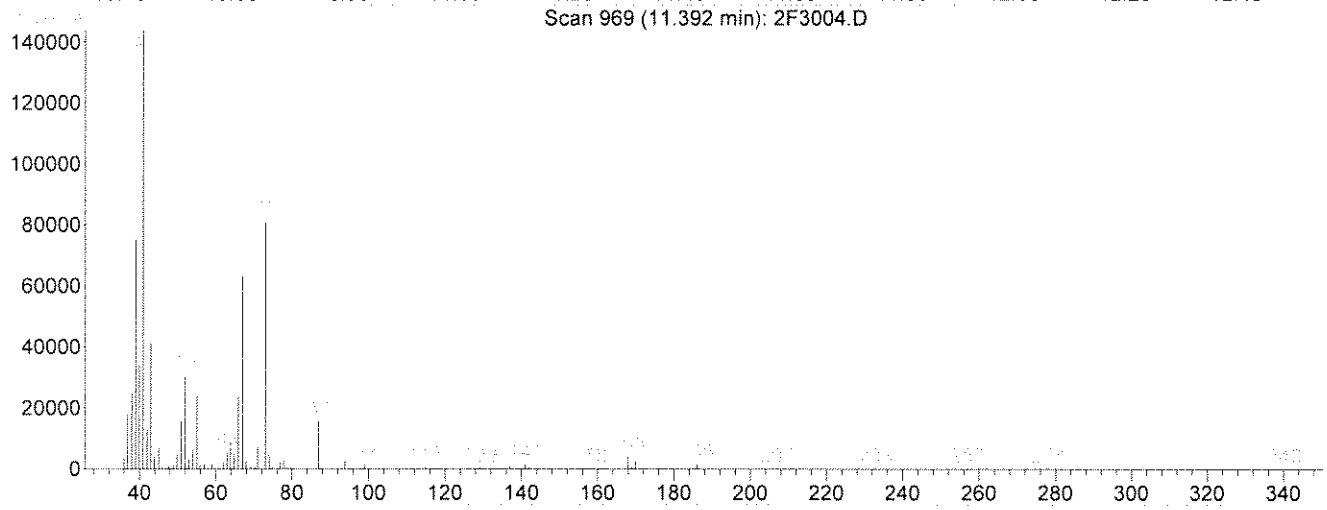
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 6/6 0413
Review by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:57 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(43) Isobutyl Alcohol

11.39min 50.51ug/kg

response 85660

Ion	Exp%	Act%
43.00	100	100
41.00	86.60	793.58#
42.00	59.10	103.57#
0.00	0.00	0.00

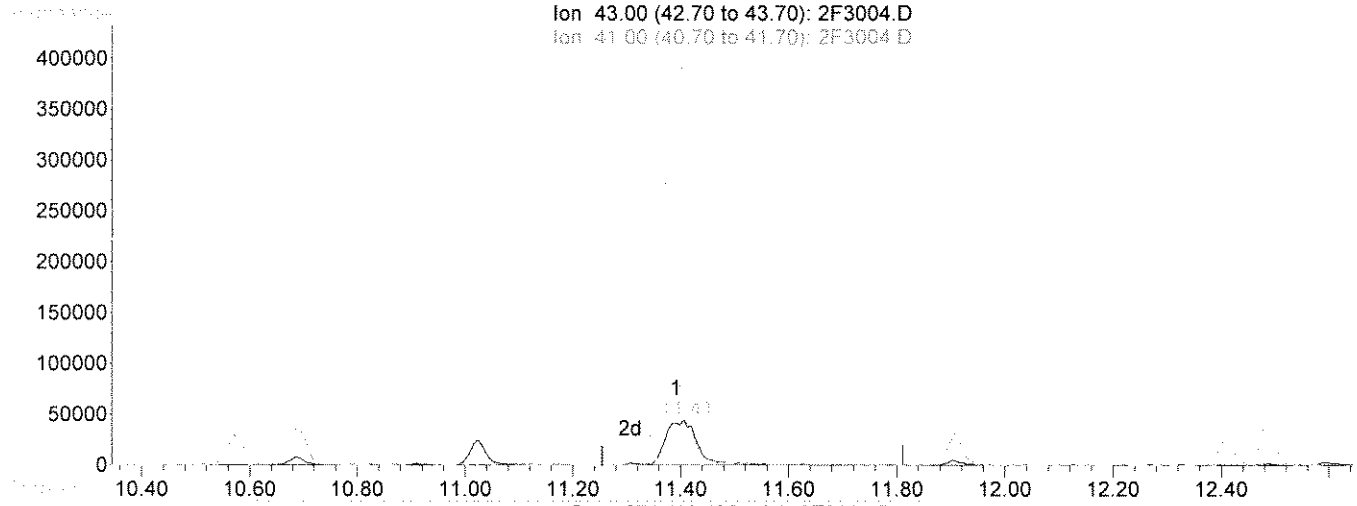
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Clump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: kt 060413
Review by/Date: 10 6-5-13

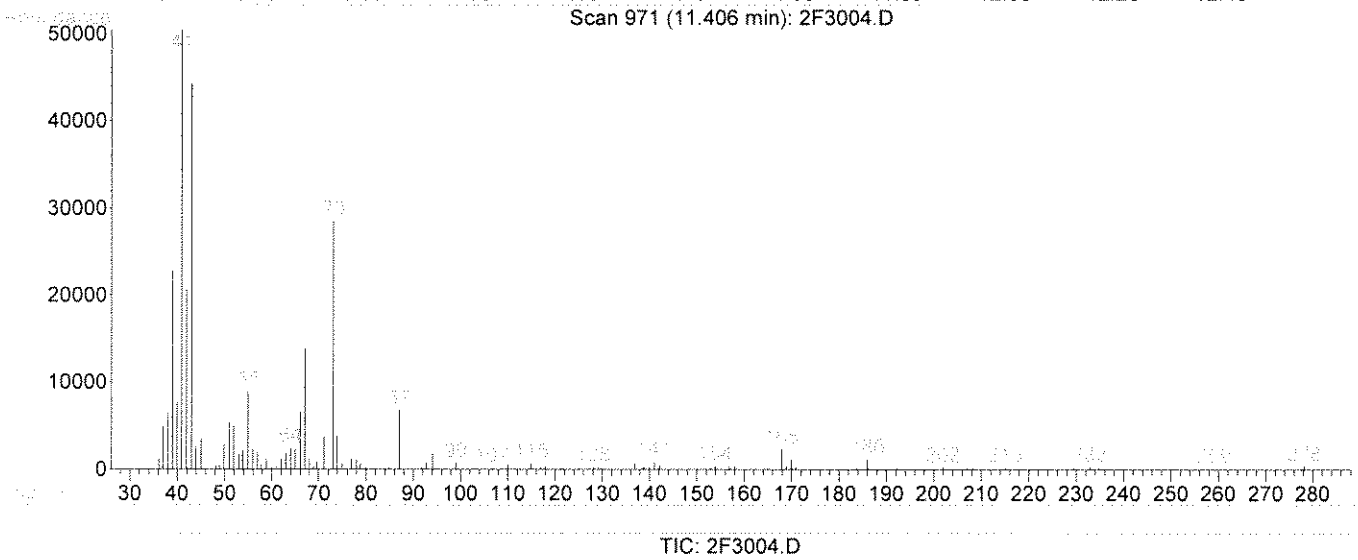
2F3004.D S1306004.M Tue Jun 04 10:58:00 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





(43) Isobutyl Alcohol

11.41min 105.40ug/kg m

response 178759

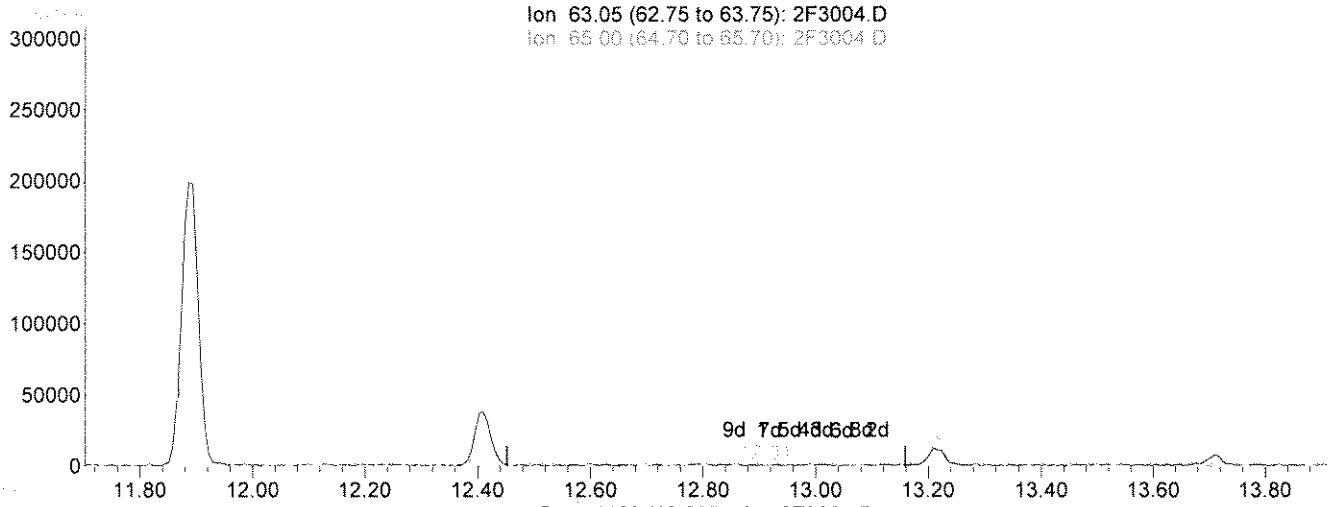
Ion	Exp%	Act%
43.00	100	100
41.00	86.60	380.28#
42.00	59.10	49.63
0.00	0.00	0.00

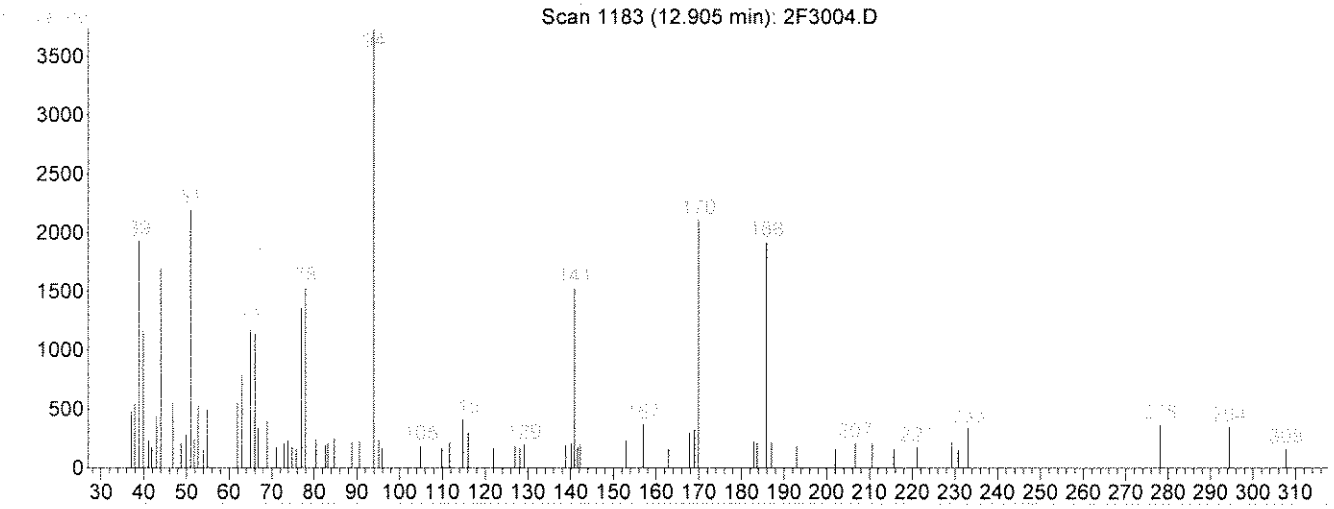
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[✓] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LT 060413
Review by/Date: LT 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:50:27 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(53) 2-Chloroethyl vinyl ether

12.91min 5.43ug/kg

response 1123

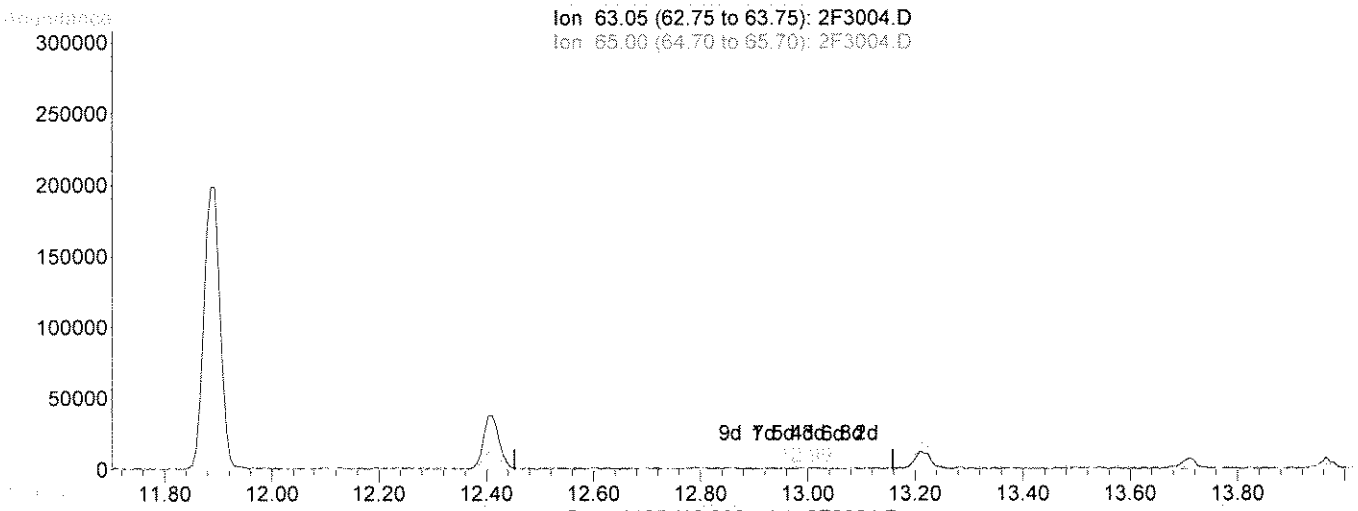
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	47.02
106.05	26.70	6.50
0.00	0.00	0.00

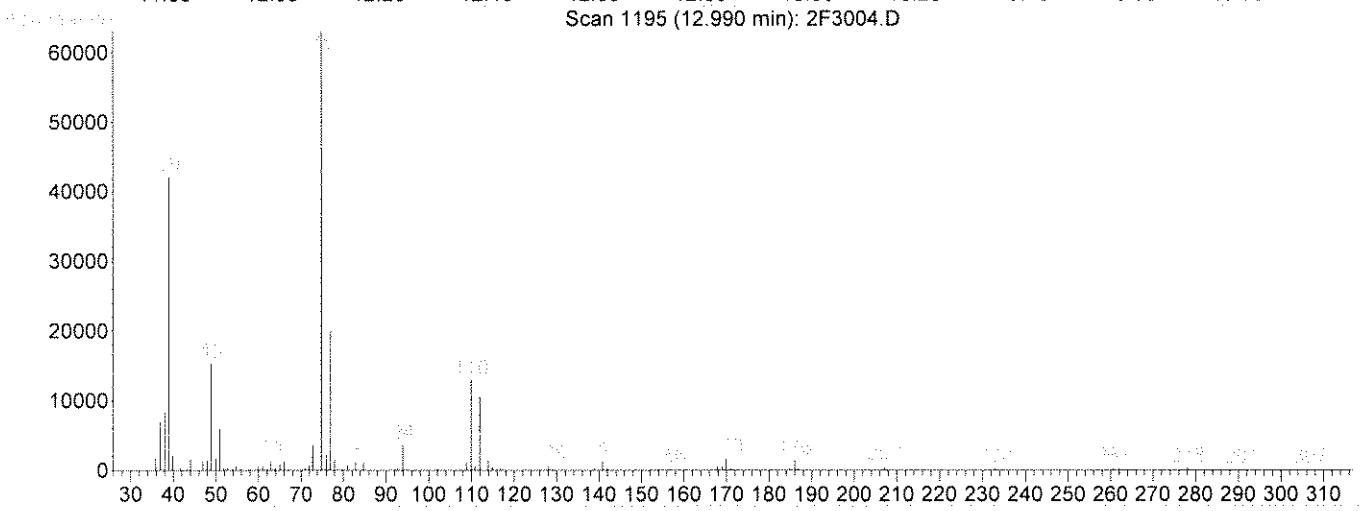
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] S/N reintegration
[ ] Other:
Review by/Date KG 060413
Approved by/Date: KG 6-3-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(53) 2-Chloroethyl vinyl ether

12.99min 9.74ug/kg m

response 2012

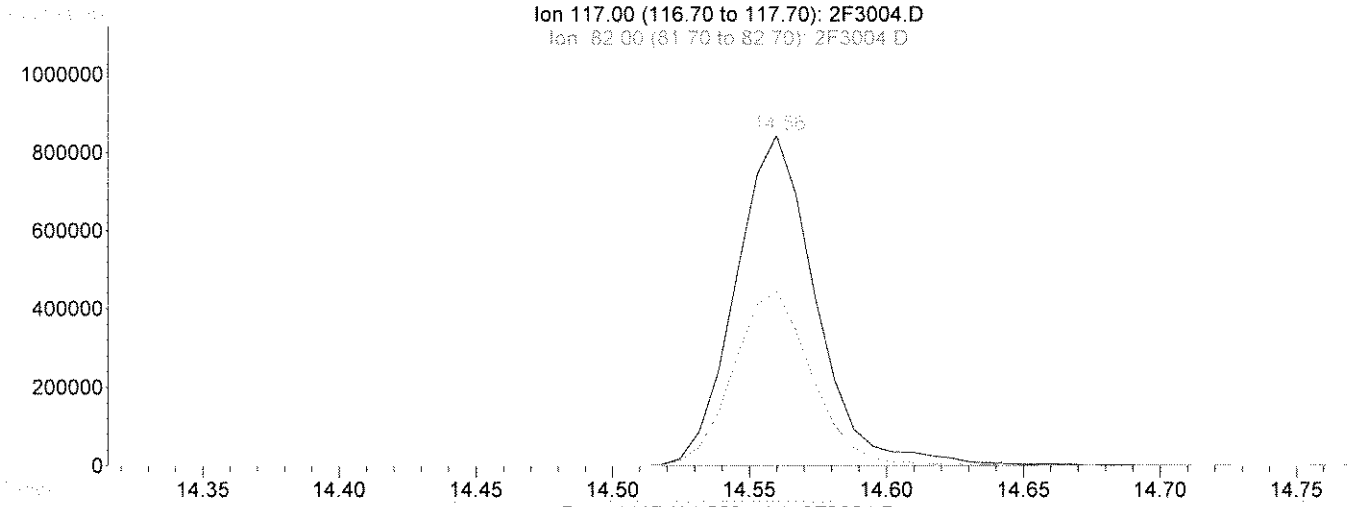
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	26.24
106.05	26.70	3.63
0.00	0.00	0.00

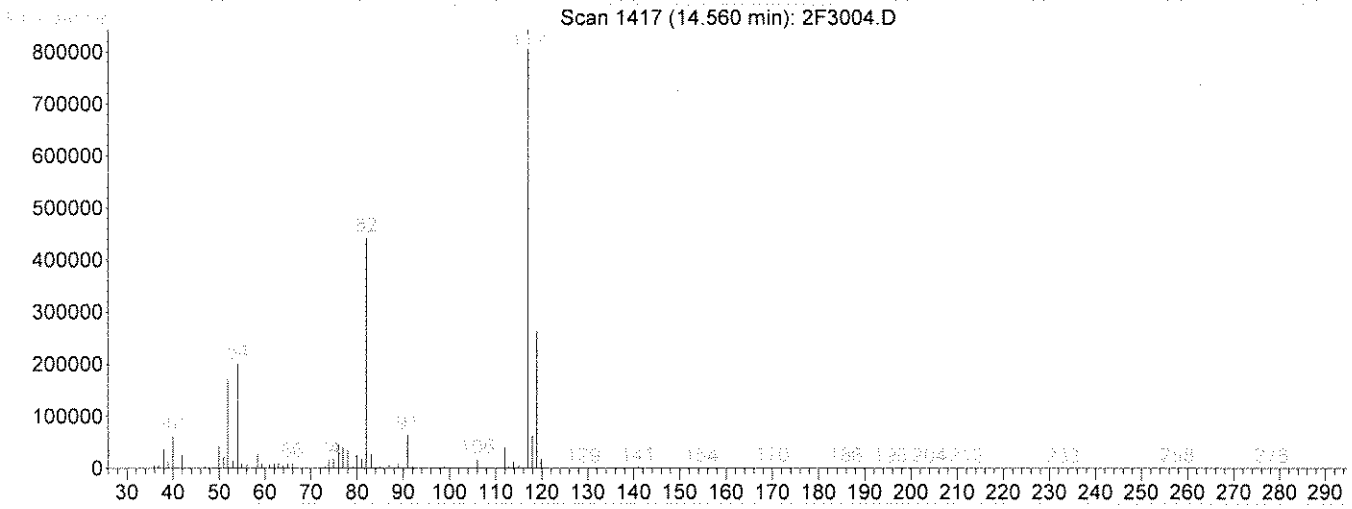
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 6/6/2013
Review by/Date: [illegible]

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:10 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:12:57 2013
Response via : Multiple Level Calibration





(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/kg

response 1725964

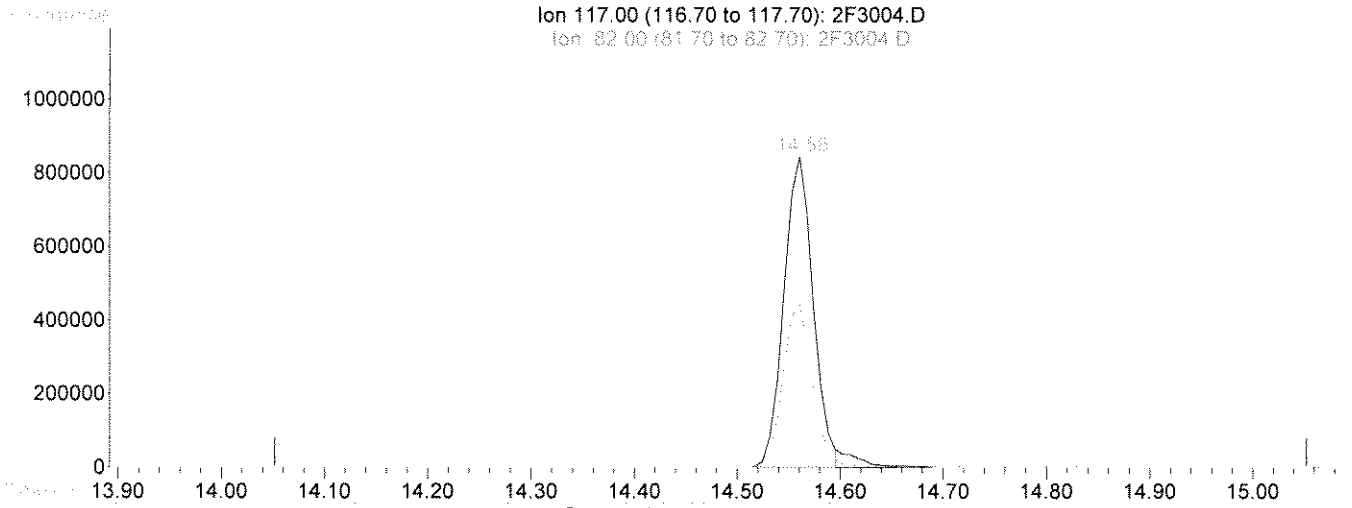
Ion	Exp%	Act%
117.00	100	100
82.00	59.20	51.39
119.00	32.40	31.61
0.00	0.00	0.00

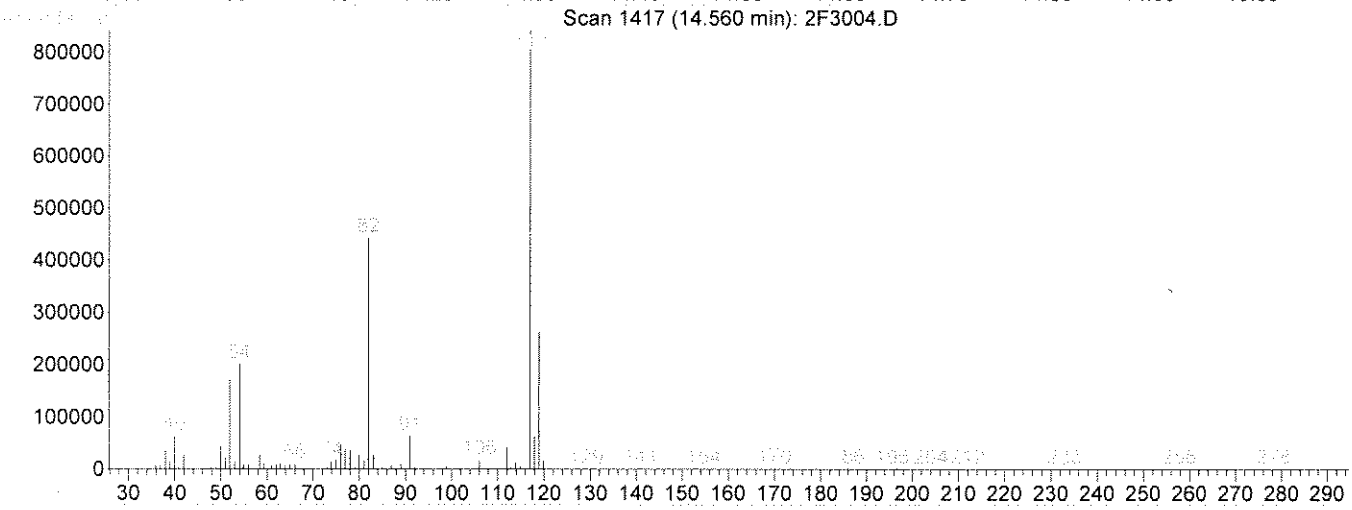
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LG 060413
Review by/Date LS 6/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(58) Chlorobenzene-d5(IS) (i)

14.56min 50.00ug/kg m

response 1659167

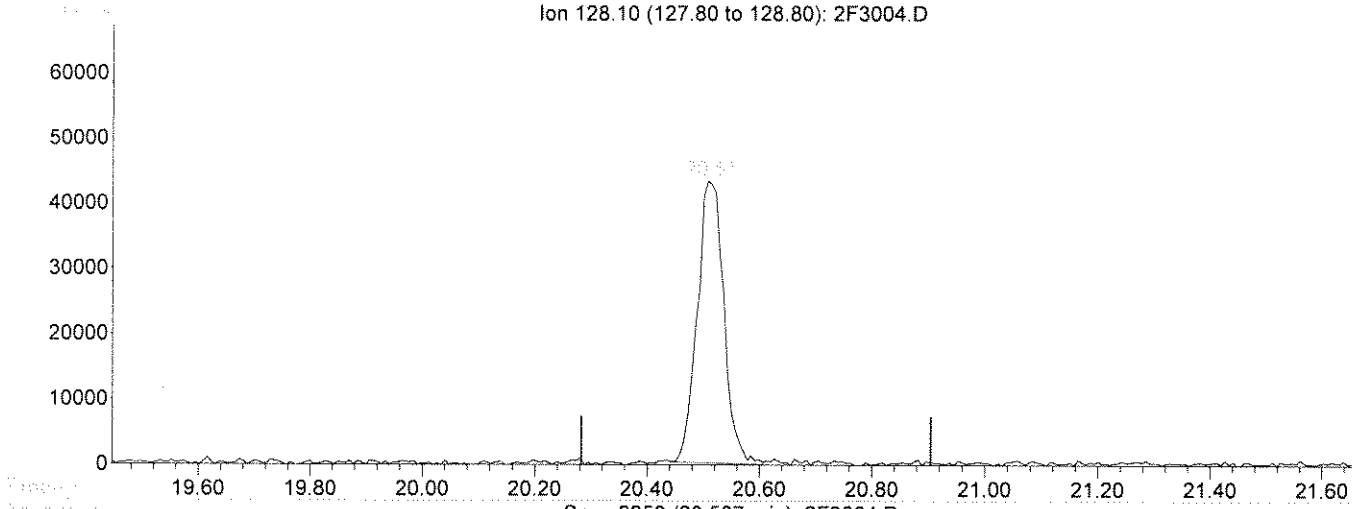
Ion	Exp%	Act%
117.00	100	100
82.00	59.20	53.45
119.00	32.40	32.88
0.00	0.00	0.00

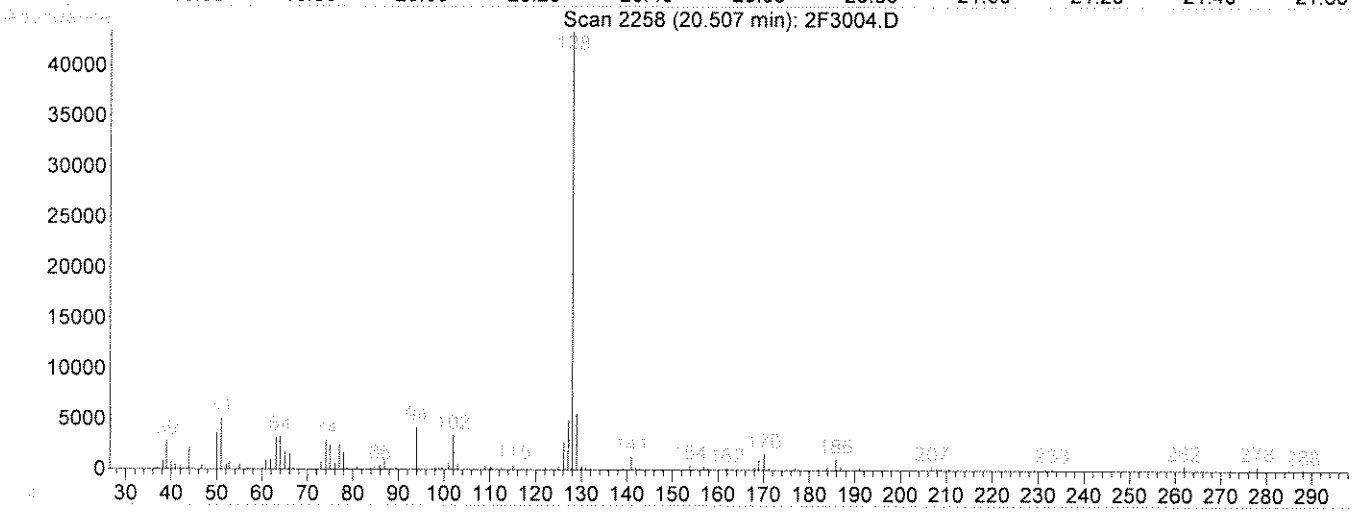
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[✓] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date KG 6/4/13
Review by/Date: KK 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:58 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:09:58 2013
Response via : Multiple Level Calibration





(95) Naphthalene

20.51min 3.49ug/kg

response 141616

Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

Review by/Date: KT 060413

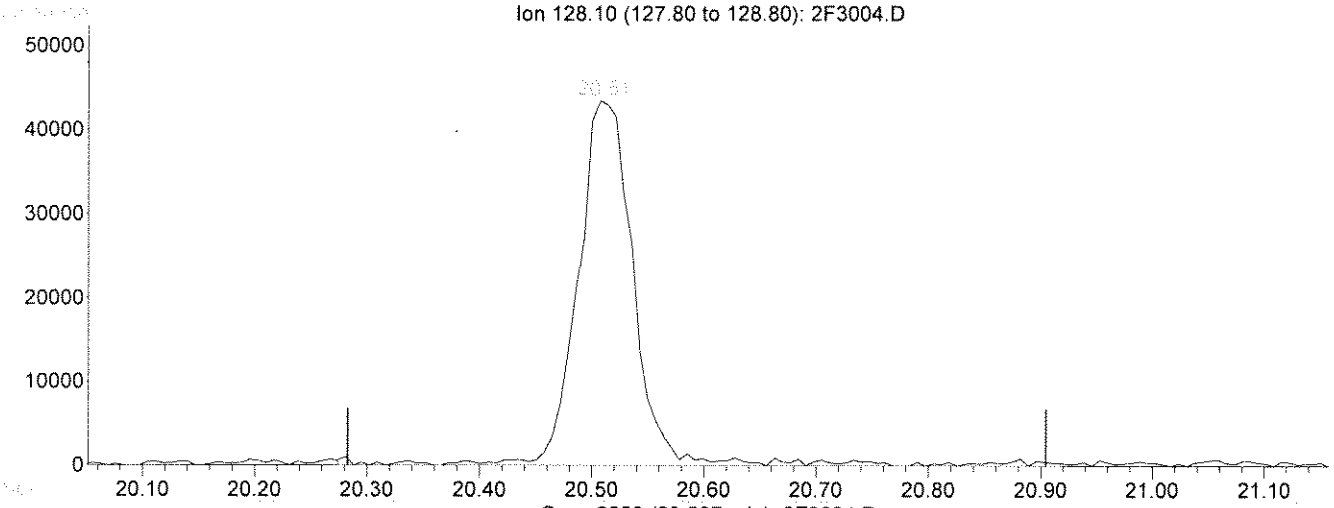
Review by/Date: 6-5-13

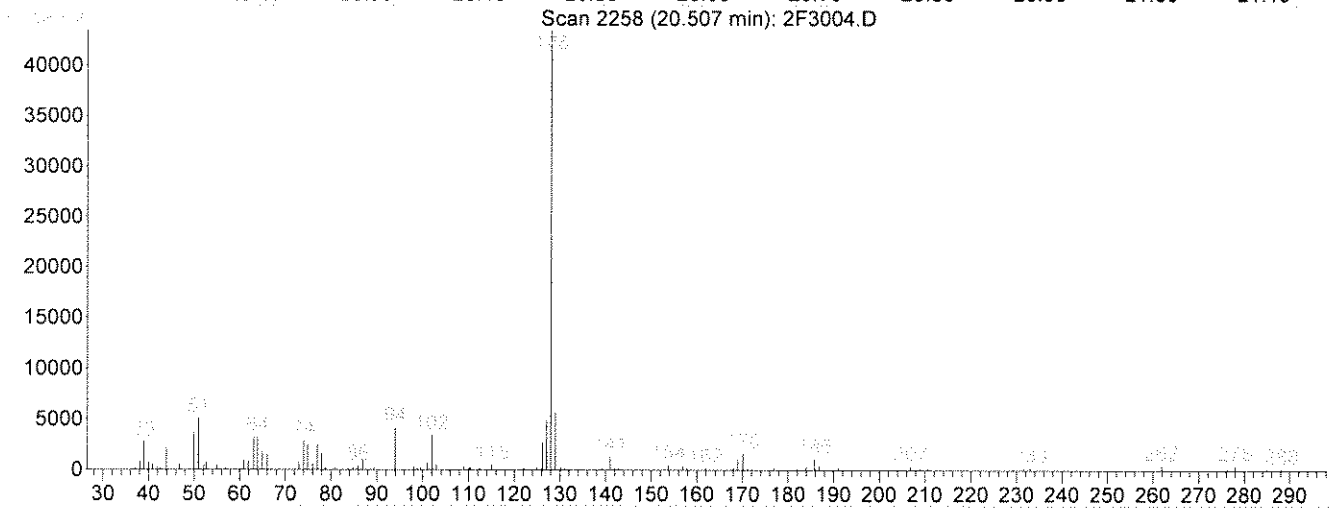
2F3004.D S1306004.M Tue Jun 04 11:10:17 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3004.D Vial: 4
Acq On : 3 Jun 2013 14:09 Operator: kat
Sample : 5 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3004.D

(95) Naphthalene

20.51min 3.82ug/kg m

response 154806

Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date UT 060413
Review by/Date: KB 6-5-13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D Vial: 12
Acq On : 3 Jun 2013 18:40 Operator: kat
Sample : 20 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:52 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Ug060413

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1165107	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1706153	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1656272	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	721191	50.00 ug/kg	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.91	113	252681	16.64 ug/kg	0.02
Spiked Amount 50.000	Range 72 - 133		Recovery = 33.28%#		
44) 1,2-Dichloroethane-d4	11.48	65	297582	19.36 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 38.72%#		
56) D8-Toluene	13.17	98	840990	20.45 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 40.90%#		
77) Bromofluorobenzene	15.67	95	356489	17.41 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 34.82%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.84	85	352160m	18.69 ug/kg	94
3) Chloromethane	5.39	50	403841	13.96 ug/kg	97
4) Vinyl Chloride	5.62	62	369306	15.82 ug/kg	92
5) Bromomethane	6.41	94	139957	19.01 ug/kg	81
6) Chloroethane	6.66	64	147740	19.91 ug/kg	90
7) Trichlorofluoromethane	6.96	101	335697	20.27 ug/kg	98
8) Trichlorotrifluoroethane	7.95	101	200154	23.32 ug/kg	97
9) acrolein	8.44	56	421806	276.38 ug/kg	98
10) Acetone	8.86	43	132996	17.59 ug/kg	98
11) 1,1-Dichloroethene	7.91	96	158769	23.11 ug/kg	97
12) 3-Chloropropene	8.64	76	137760	15.29 ug/kg	98
13) Acetonitrile	9.52	41	446123	152.70 ug/kg	91
14) Iodomethane	8.16	142	326973	17.08 ug/kg	93
15) Carbon disulfide	7.98	76	713573	20.27 ug/kg	98
16) Methylene Chloride	8.79	84	273134	20.54 ug/kg	91
17) Methyl tert-butyl ether	9.14	73	755135	24.60 ug/kg	97
18) Acrylonitrile	9.89	53	1123841	190.04 ug/kg	97
19) T-1,2-Dichloroethene	9.02	96	256251	20.27 ug/kg	98
20) Isopropyl Ether	9.60	45	1062730	21.20 ug/kg	99
21) C-1,2-Dichloroethene	10.45	96	259113	19.50 ug/kg	92
22) 1,1-Dichloroethane	9.83	63	469695	19.95 ug/kg#	67
23) Vinyl Acetate	10.06	43	874085	15.84 ug/kg	95
24) Chloroprene	9.79	53	402350	17.14 ug/kg	77
25) 2-Butanone	11.02	72	35668	17.49 ug/kg#	90
26) Propionitrile	11.36	54	440113	173.86 ug/kg	100
27) 2,2-Dichloropropane	10.57	77	355960	20.70 ug/kg	98
28) Methacrylonitrile	11.37	67	1068678	174.26 ug/kg#	45
29) Chloroform	10.71	83	431640	20.46 ug/kg	92
31) Dibromofluoromethane	10.91	113	252681	16.64 ug/kg	100
32) Bromochloromethane	10.67	128	139031	18.82 ug/kg	76
33) 1,1,1-Trichloroethane	10.98	97	325521	20.64 ug/kg#	99
34) 1,1-Dichloropropene	11.08	75	343889	20.86 ug/kg	93
35) Diethyl ether	7.55	59	193840	21.44 ug/kg	95
36) Methyl Acetate	9.01	74	54920	21.94 ug/kg	85
37) Cyclohexane	10.69	56	457293	19.09 ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D
Acq On : 3 Jun 2013 18:40
Sample : 20 ppb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 11:52 2013

Vial: 12
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	385659	20.60 ug/kg#	84
40) Carbon Tetrachloride	10.90	117	284058	22.25 ug/kg	97
41) 1,2-Dichloroethane	11.54	62	351028	21.23 ug/kg	94
42) Benzene	11.35	78	868371	22.08 ug/kg#	37
43) Isobutyl Alcohol	11.41	43	629265	427.56 ug/kg#	1
45) 1,2-Dichloroethane-d4	11.48	65	297582	19.36 ug/kg	96
46) Trichloroethene	11.89	130	248879	21.77 ug/kg	90
47) 1,2-Dichloropropane	12.41	63	265362	21.20 ug/kg	86
48) Methyl Methacrylate	12.49	100	87208	18.83 ug/kg#	1
49) 1,4-Dioxane	12.60	88	85845	483.72 ug/kg#	64
50) Bromodichloromethane	12.43	83	328331	21.74 ug/kg#	100
51) Dibromomethane	12.33	93	168987	20.90 ug/kg#	79
52) 4-Methyl-2-Pentanone	13.49	100	51933	21.55 ug/kg	90
53) 2-Chloroethyl vinyl ether	13.01	63	5230m	29.17 ug/kg	72
54) 2-Hexanone	14.19	43	323757	18.62 ug/kg	97
55) C-1,3-Dichloropropene	12.99	75	452637	21.93 ug/kg	79
57) D8-Toluene	13.17	98	840990	20.45 ug/kg	99
59) Toluene	13.22	92	601939	20.53 ug/kg	99
60) Ethyl Methacrylate	13.59	69	403953	17.92 ug/kg#	75
61) T-1,3-Dichloropropene	13.55	75	391880	20.14 ug/kg	79
62) 1,1,2-Trichloroethane	13.71	97	219520	19.03 ug/kg	99
63) 1,3-Dichloropropane	13.97	76	420352	19.24 ug/kg	96
64) Tetrachloroethene	13.57	164	209299	21.47 ug/kg	88
65) Dibromochloromethane	13.90	129	288102	18.30 ug/kg	95
66) 1,2-Dibromoethane	14.15	107	260203	18.70 ug/kg	96
67) Chlorobenzene	14.58	112	692731	20.64 ug/kg	92
68) 1,1,1,2-Tetrachloroethane	14.60	131	254672	20.07 ug/kg	84
69) Ethylbenzene	14.54	106	324464	19.64 ug/kg	99
70) m-xylene & p-xylene	14.66	106	829115	40.71 ug/kg	81
71) O-Xylene	15.07	106	409625	19.13 ug/kg	98
72) Bromoform	15.21	173	219757	20.62 ug/kg	92
73) Styrene	15.11	104	656542	18.22 ug/kg	88
74) Isopropylbenzene	15.35	105	1051300	19.91 ug/kg	100
75) 1,2,3-Trichloropropane	16.00	75	422162	19.48 ug/kg	96
76) 1,1,2,2-Tetrachloroethane	15.81	83	356824	20.67 ug/kg	98
78) Bromofluorobenzene	15.67	95	356489	17.41 ug/kg#	63
79) T-1,4-dichloro-2-butene	15.99	53	115485	17.93 ug/kg#	73
80) N-Propylbenzene	15.75	91	1247768	19.84 ug/kg	96
82) Bromobenzene	15.83	156	293748	22.81 ug/kg	80
83) 1,3,5-Trimethylbenzene	15.90	105	795680	21.61 ug/kg	90
84) 2-Chlorotoluene	15.98	91	784867	22.72 ug/kg	96
85) 4-Chlorotoluene	16.14	91	767892	22.47 ug/kg	93
86) 1,2,4-Trimethylbenzene	16.34	105	752981	20.90 ug/kg	92
87) s-Butylbenzene	16.47	105	1051141	21.80 ug/kg	94
88) tert-Butylbenzene	16.28	119	724758	22.23 ug/kg	94
89) p-Isopropyltoluene	16.59	119	755014	20.66 ug/kg	96
90) 1,3-Dichlorobenzene	16.82	146	518927	22.05 ug/kg	91
91) 1,4-Dichlorobenzene	16.92	146	509696	22.15 ug/kg	93
92) 1,2-Dichlorobenzene	17.47	146	510554	22.68 ug/kg	96
93) N-Butylbenzene	17.10	91	722076	20.26 ug/kg	95
94) DBCP	18.61	75	66690	24.32 ug/kg	76

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D Vial: 12
Acq On : 3 Jun 2013 18:40 Operator: kat
Sample : 20 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:52 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.51	128	643012	17.44 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.79	180	309723	21.62 ug/kg	90
97) Hexachlorobutadiene	19.63	225	160617	25.31 ug/kg	99
98) 1,2,3-Trichlorobenzene	20.93	180	292276	22.45 ug/kg	92

(#) = qualifier out of range (m) = manual integration

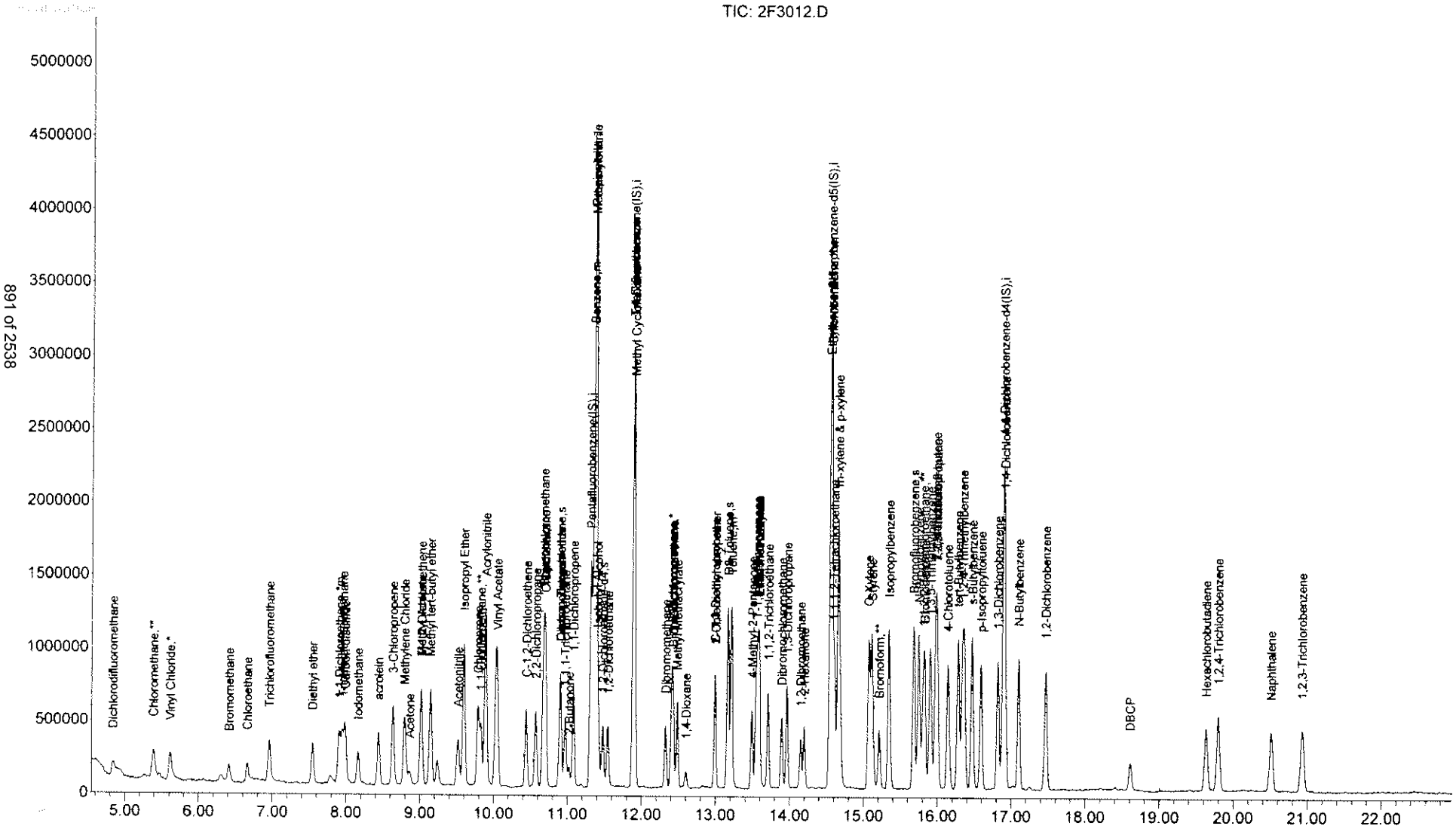
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D
Acq On : 3 Jun 2013 18:40
Sample : 20 ppb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 11:52 2013

Vial: 12
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

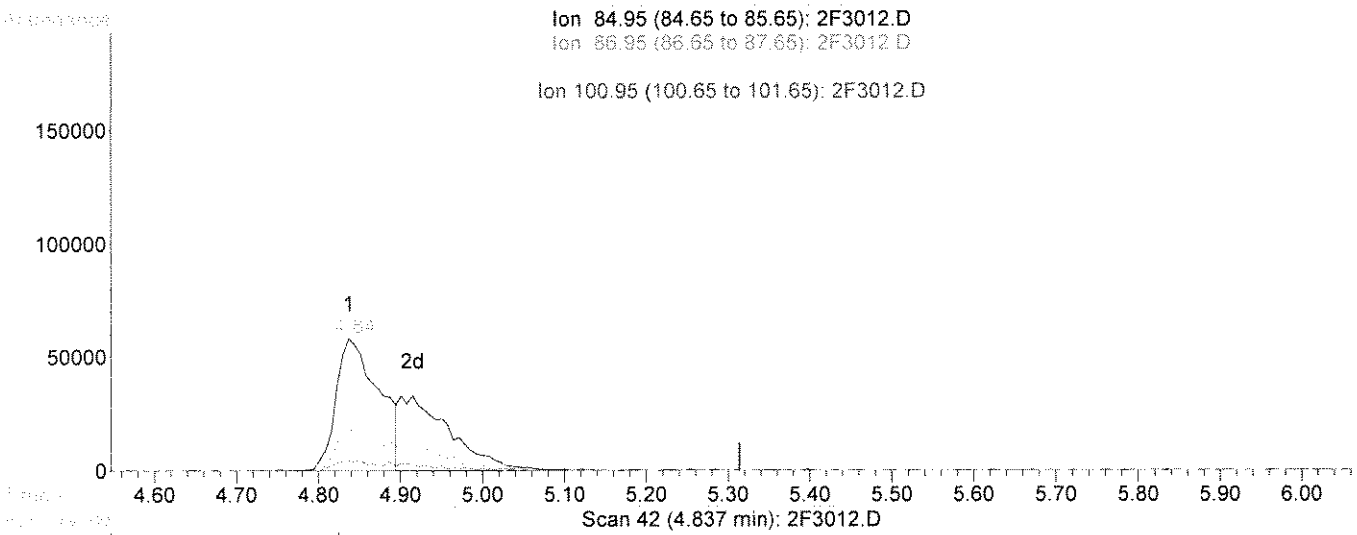
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

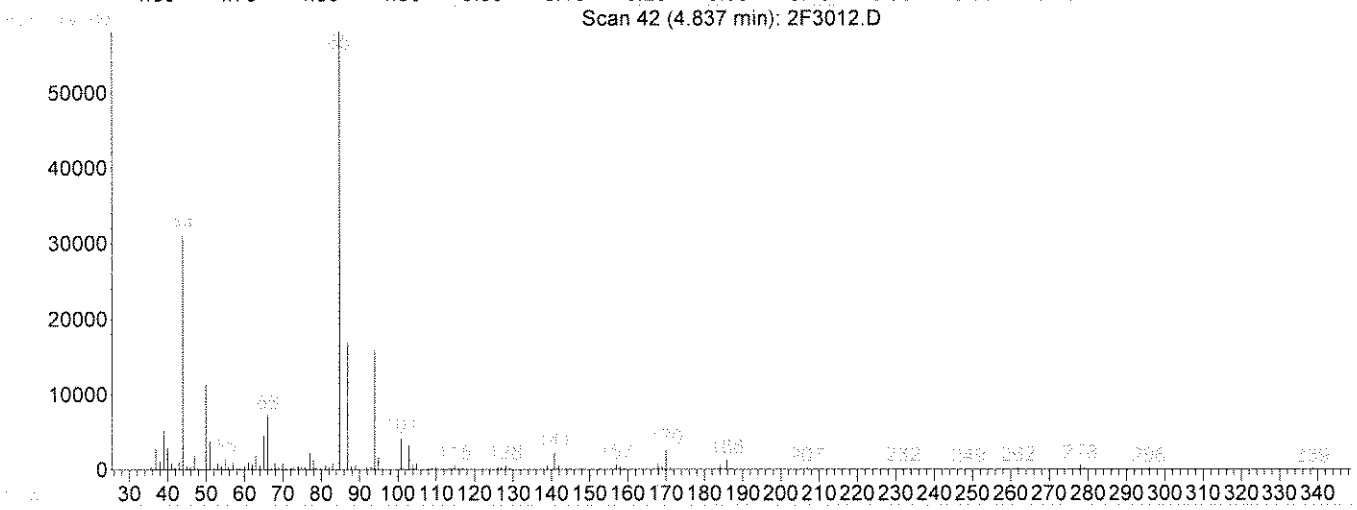


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D Vial: 12
Acq On : 3 Jun 2013 18:40 Operator: kat
Sample : 20 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

4.84min 11.23ug/kg

response 211717

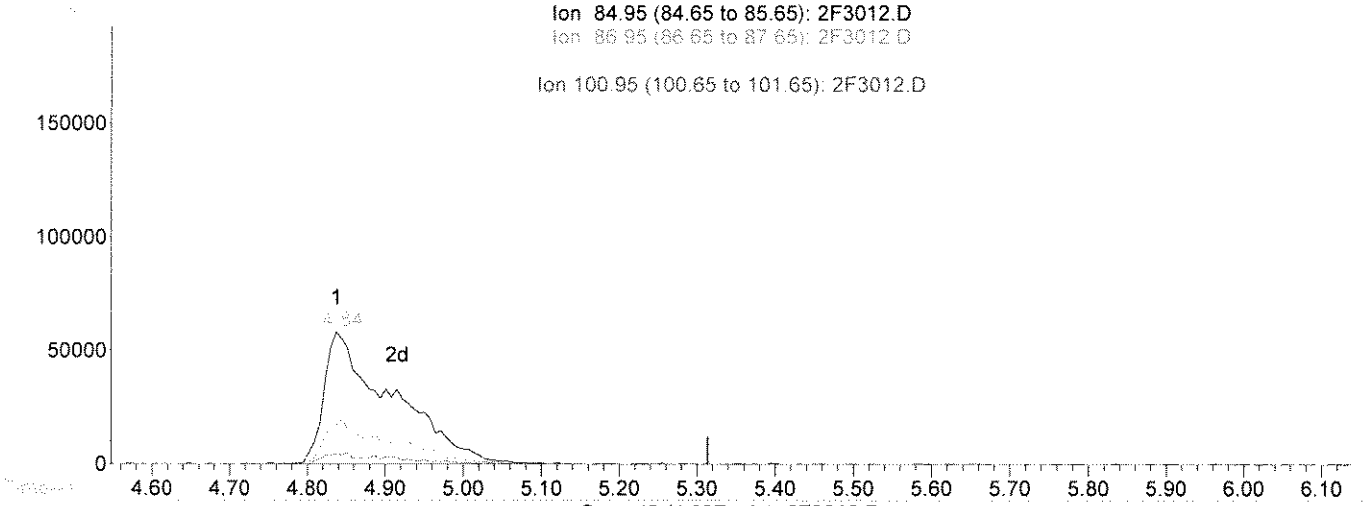
Ion	Exp%	Act%
84.95	100	100
86.95	32.20	28.09
50.00	17.50	16.34
100.95	8.30	6.44

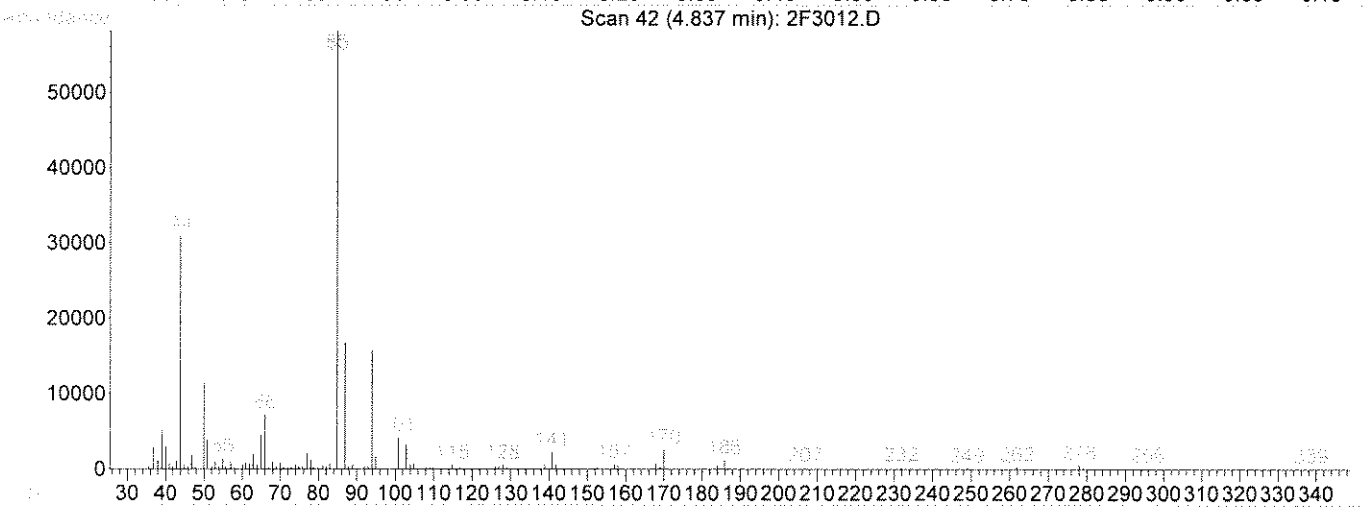
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date UT 060413
Review by/Date: KB 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D Vial: 12
Acq On : 3 Jun 2013 18:40 Operator: kat
Sample : 20 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:52 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

4.84min 18.69ug/kg m

response 352160

Ion	Exp%	Act%
84.95	100	100
86.95	32.20	16.88
50.00	17.50	9.82
100.95	8.30	3.87

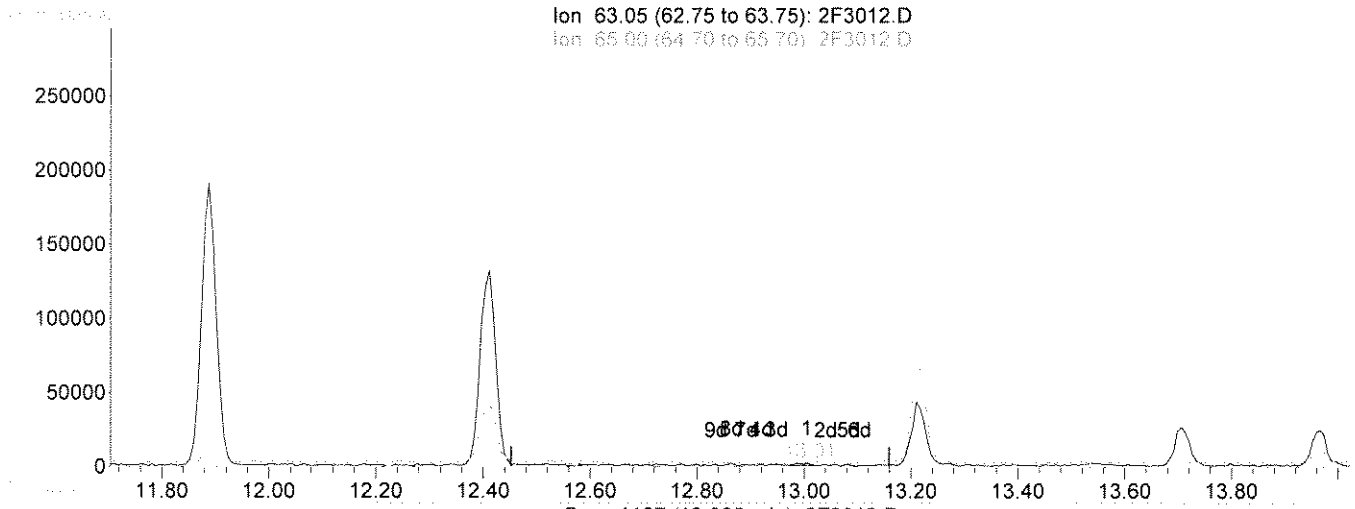
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[✓] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT 060413
Review by/Date: KAS 6/5/13

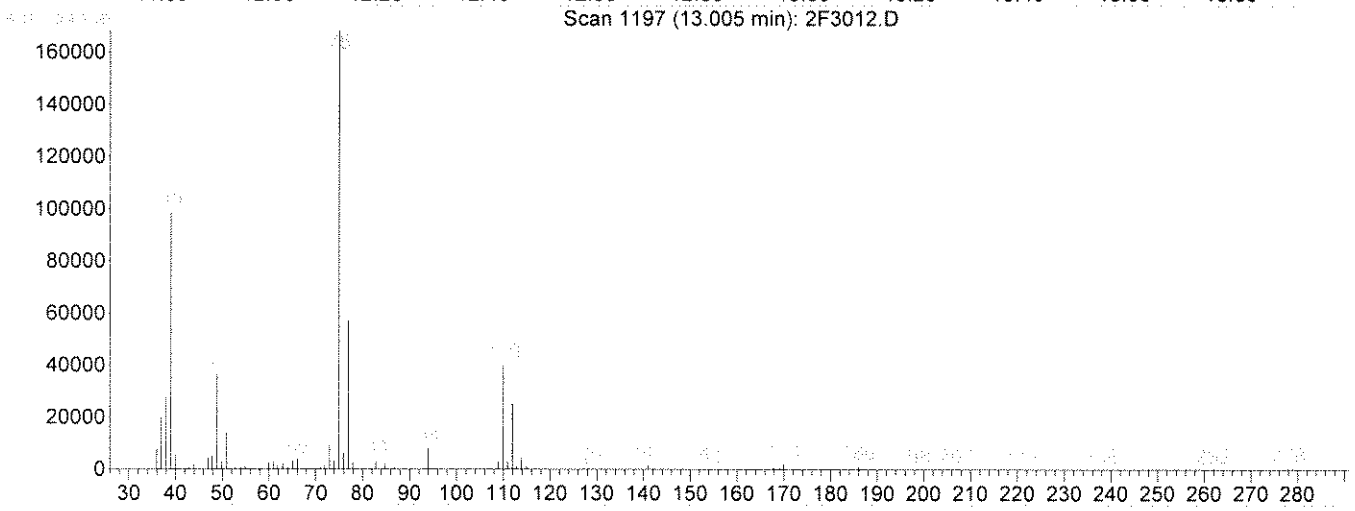
2F3012.D S1306004.M Tue Jun 04 13:38:38 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D Vial: 12
Acq On : 3 Jun 2013 18:40 Operator: kat
Sample : 20 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:05 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:51:37 2013
Response via : Multiple Level Calibration





TIC: 2F3012.D

(53) 2-Chloroethyl vinyl ether

13.01min 15.67ug/kg

response 2809

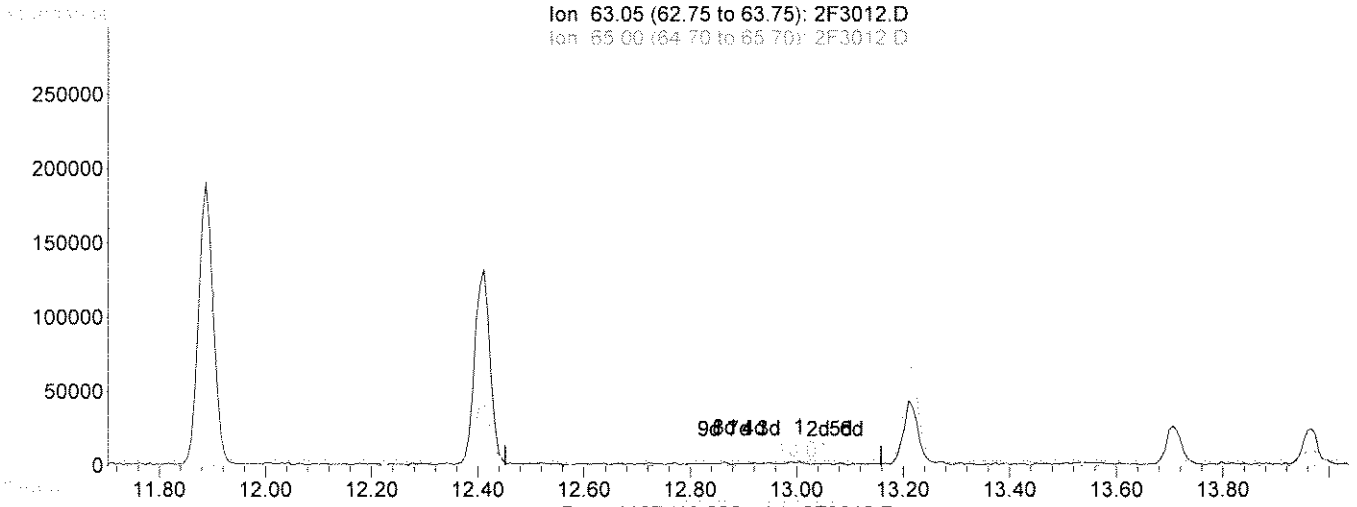
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	29.12
106.05	26.70	0.00
0.00	0.00	0.00

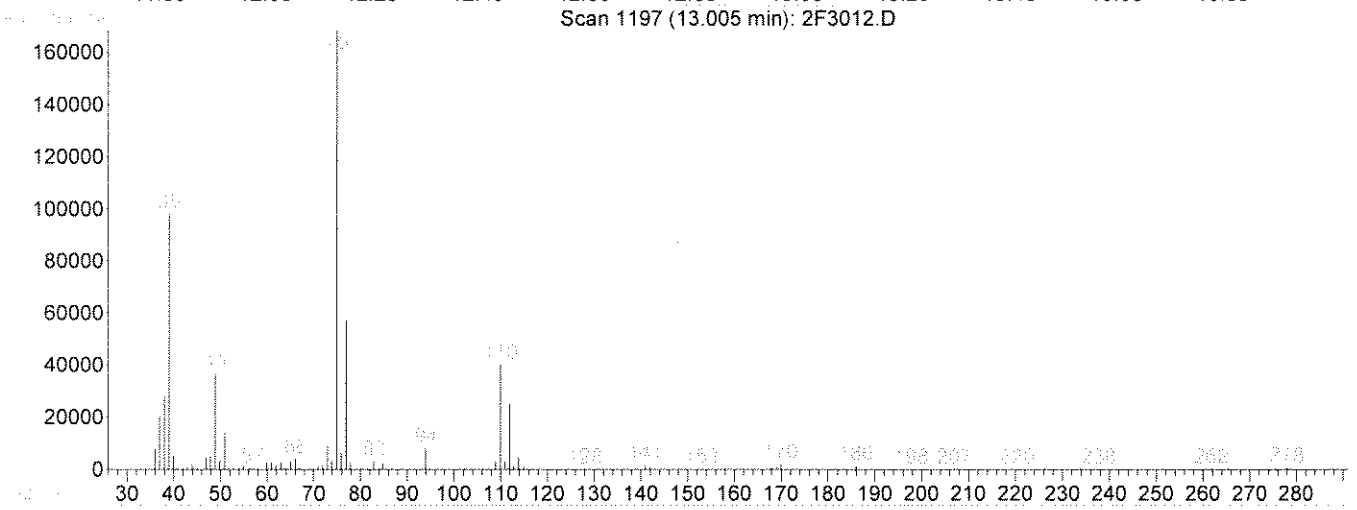
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Lump integration
[ ] Baseline drop for split peaks
[ ] SPID reintegration
[ ] Other:
Review by/Date: KT 060413
Review by/Date: KD 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3012.D Vial: 12
Acq On : 3 Jun 2013 18:40 Operator: kat
Sample : 20 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:52 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3012.D

(53) 2-Chloroethyl vinyl ether

13.01min 29.17ug/kg m

response 5230

Ion	Exp%	Act%
63.05	100	100
65.00	34.80	15.64
106.05	26.70	0.00
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date kt 060413.
Review by/Date: [illegible]

2F3012.D S1306004.M Tue Jun 04 13:38:46 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:53 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 060413

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1283129m	50.00	ug/kg	0.01
38) 1,4-Difluorobenzene(IS)	11.89	114	1837817	50.00	ug/kg	0.01
58) Chlorobenzene-d5(IS)	14.56	117	1632888	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	807829	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	558316	33.39	ug/kg	0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 66.78%#			
44) 1,2-Dichloroethane-d4	11.47	65	591728	35.73	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 71.46%			
56) D8-Toluene	13.16	98	1810261	40.87	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 81.74%			
77) Bromofluorobenzene	15.67	95	744097	36.87	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 73.74%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.83	85	890990	42.93	ug/kg	89
3) Chloromethane	5.38	50	941667	29.55	ug/kg	98
4) Vinyl Chloride	5.61	62	919115	35.75	ug/kg	94
5) Bromomethane	6.40	94	350641	43.24	ug/kg	95
6) Chloroethane	6.65	64	363932	44.54	ug/kg	91
7) Trichlorofluoromethane	6.93	101	817180	44.81	ug/kg	98
8) Trichlorotrifluoroethane	7.94	101	516877	54.68	ug/kg	96
9) acrolein	8.44	56	1110906	660.95	ug/kg	98
10) Acetone	8.86	43	318676	38.28	ug/kg	96
11) 1,1-Dichloroethene	7.90	96	419836	55.50	ug/kg	97
12) 3-Chloropropene	8.63	76	381858	38.48	ug/kg	89
13) Acetonitrile	9.51	41	1188854	369.49	ug/kg	91
14) Iodomethane	8.16	142	920057	43.64	ug/kg	92
15) Carbon disulfide	7.98	76	1802790	46.49	ug/kg	100
16) Methylene Chloride	8.79	84	738442	50.43	ug/kg	89
17) Methyl tert-butyl ether	9.14	73	1989580	58.85	ug/kg	95
18) Acrylonitrile	9.89	53	2857410	438.74	ug/kg	96
19) T-1,2-Dichloroethene	9.02	96	701118	50.35	ug/kg	99
20) Isopropyl Ether	9.60	45	2766934	50.11	ug/kg	99
21) C-1,2-Dichloroethene	10.44	96	714967	48.86	ug/kg	96
22) 1,1-Dichloroethane	9.82	63	1252883	48.31	ug/kg	98
23) Vinyl Acetate	10.05	43	2262690	37.24	ug/kg	95
24) Chloroprene	9.78	53	1067120	41.28	ug/kg	77
25) 2-Butanone	11.02	72	95132	42.36	ug/kg	98
26) Propionitrile	11.36	54	1061177	380.63	ug/kg	100
27) 2,2-Dichloropropane	10.57	77	950134	50.18	ug/kg	99
28) Methacrylonitrile	11.37	67	2563069	379.51	ug/kg#	50
29) Chloroform	10.71	83	1139738	49.04	ug/kg	93
31) Dibromofluoromethane	10.91	113	558316	33.39	ug/kg	100
32) Bromochloromethane	10.67	128	367793	45.20	ug/kg	80
33) 1,1,1-Trichloroethane	10.97	97	867869	49.97	ug/kg#	98
34) 1,1-Dichloropropene	11.08	75	910745	50.15	ug/kg	92
35) Diethyl ether	7.55	59	488575	49.06	ug/kg	97
36) Methyl Acetate	9.01	74	138257	50.14	ug/kg#	87
37) Cyclohexane	10.68	56	1233830	46.77	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D
Acq On : 3 Jun 2013 15:17
Sample : 50 ppb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 11:53 2013

Vial: 6
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	1001794	49.67	ug/kg#	82
40) Carbon Tetrachloride	10.90	117	775848	56.41	ug/kg	97
41) 1,2-Dichloroethane	11.54	62	905721	50.86	ug/kg	95
42) Benzene	11.35	78	2298691	54.25	ug/kg#	45
43) Isobutyl Alcohol	11.41	43	1614025	1018.09	ug/kg#	1
45) 1,2-Dichloroethane-d4	11.47	65	591728	35.73	ug/kg	97
46) Trichloroethene	11.89	130	660079	53.61	ug/kg	94
47) 1,2-Dichloropropane	12.41	63	680701	50.49	ug/kg	87
48) Methyl Methacrylate	12.49	100	229094	45.93	ug/kg#	1
49) 1,4-Dioxane	12.61	88	195253	1021.39	ug/kg#	66
50) Bromodichloromethane	12.43	83	864923	53.17	ug/kg#	100
51) Dibromomethane	12.32	93	453584	52.09	ug/kg	83
52) 4-Methyl-2-Pentanone	13.49	100	121380	46.75	ug/kg	90
53) 2-Chloroethyl vinyl ether	13.00	63	14498m	75.06	ug/kg	58
54) 2-Hexanone	14.20	43	783699	41.84	ug/kg	96
55) C-1,3-Dichloropropene	12.99	75	1173428	52.78	ug/kg	80
57) D8-Toluene	13.16	98	1810261	40.87	ug/kg	99
59) Toluene	13.21	92	1522414	52.66	ug/kg	100
60) Ethyl Methacrylate	13.60	69	960561	43.22	ug/kg#	75
61) T-1,3-Dichloropropene	13.55	75	977722	50.96	ug/kg	76
62) 1,1,2-Trichloroethane	13.71	97	552122	48.54	ug/kg	99
63) 1,3-Dichloropropane	13.96	76	1058913	49.15	ug/kg	99
64) Tetrachloroethene	13.57	164	535070	55.68	ug/kg	88
65) Dibromochloromethane	13.89	129	734805	47.34	ug/kg	95
66) 1,2-Dibromoethane	14.15	107	660207	48.13	ug/kg	93
67) Chlorobenzene	14.58	112	1708753	51.64	ug/kg	93
68) 1,1,1,2-Tetrachloroethane	14.61	131	634873	50.75	ug/kg	88
69) Ethylbenzene	14.54	106	822967	50.54	ug/kg	99
70) m-xylene & p-xylene	14.66	106	2092128	104.20	ug/kg	82
71) O-Xylene	15.07	106	1066642	50.52	ug/kg	96
72) Bromoform	15.21	173	572857	54.53	ug/kg	91
73) Styrene	15.12	104	1720526	48.44	ug/kg	88
74) Isopropylbenzene	15.34	105	2738443	52.60	ug/kg	99
75) 1,2,3-Trichloropropane	16.00	75	1016376	47.57	ug/kg	100
76) 1,1,2,2-Tetrachloroethane	15.81	83	858860	50.47	ug/kg	96
78) Bromofluorobenzene	15.67	95	744097	36.87	ug/kg#	57
79) T-1,4-dichloro-2-butene	15.99	53	277462	43.70	ug/kg#	72
80) N-Propylbenzene	15.75	91	3267712	52.71	ug/kg	95
82) Bromobenzene	15.83	156	757468	52.52	ug/kg	79
83) 1,3,5-Trimethylbenzene	15.91	105	2083236	50.52	ug/kg	91
84) 2-Chlorotoluene	15.98	91	1994695	51.54	ug/kg	96
85) 4-Chlorotoluene	16.14	91	1999672	52.24	ug/kg	94
86) 1,2,4-Trimethylbenzene	16.34	105	1992602	49.38	ug/kg	93
87) s-Butylbenzene	16.47	105	2840116	52.57	ug/kg	93
88) tert-Butylbenzene	16.28	119	1929321	52.84	ug/kg	95
89) p-Isopropyltoluene	16.59	119	2017408	49.27	ug/kg	96
90) 1,3-Dichlorobenzene	16.82	146	1355689	51.42	ug/kg	91
91) 1,4-Dichlorobenzene	16.91	146	1286074	49.91	ug/kg	94
92) 1,2-Dichlorobenzene	17.47	146	1293394	51.29	ug/kg	97
93) N-Butylbenzene	17.10	91	1988145	49.80	ug/kg	94
94) DBCP	18.62	75	159276	51.84	ug/kg	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:53 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

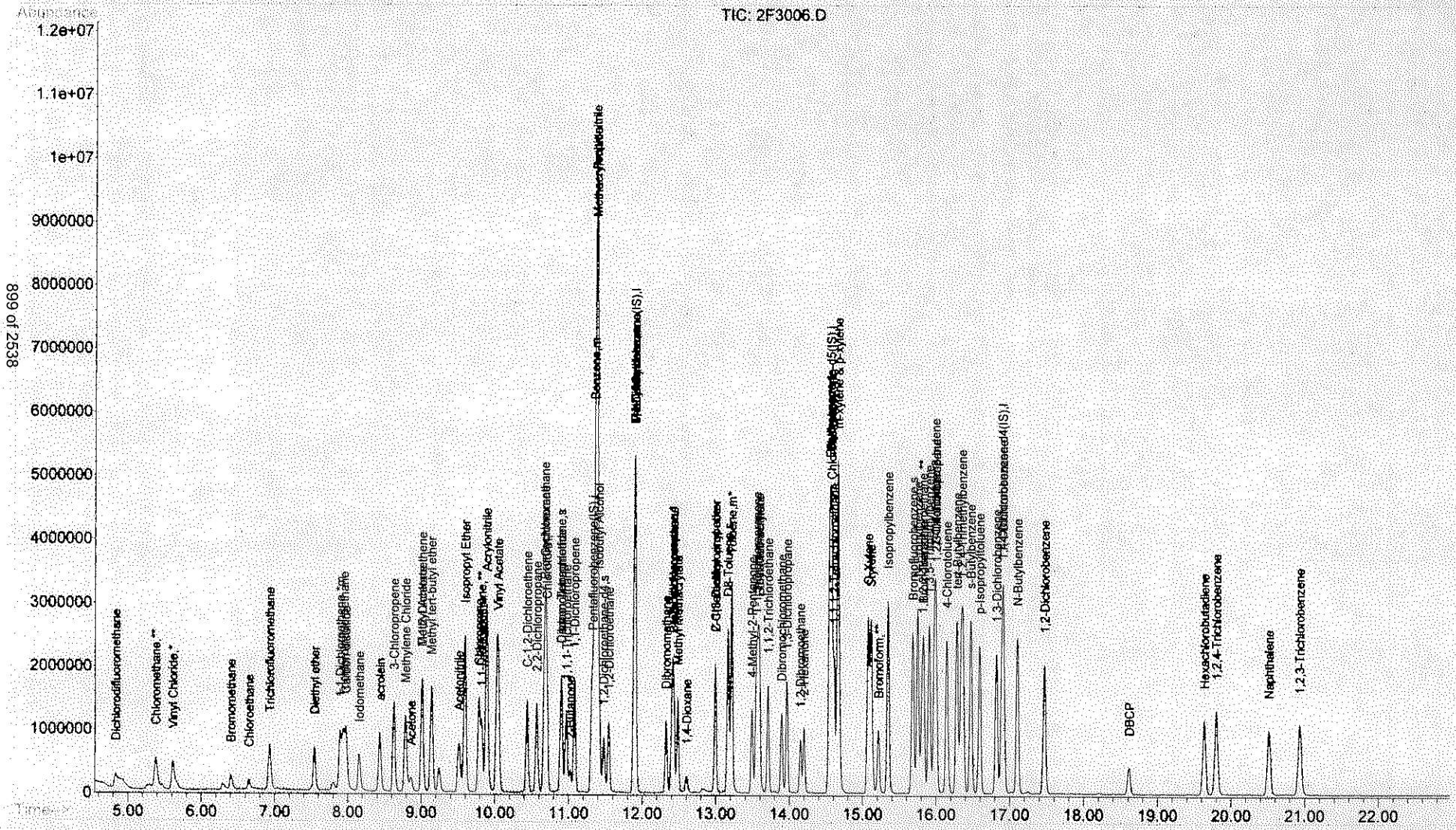
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.51	128	1618736m	39.21 ug/kg	100
96)	1,2,4-Trichlorobenzene	19.80	180	807026	50.29 ug/kg	90
97)	Hexachlorobutadiene	19.63	225	457867	64.40 ug/kg	97
98)	1,2,3-Trichlorobenzene	20.93	180	745976	51.15 ug/kg	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:53 2013 Quant Results File: S1306004.RES

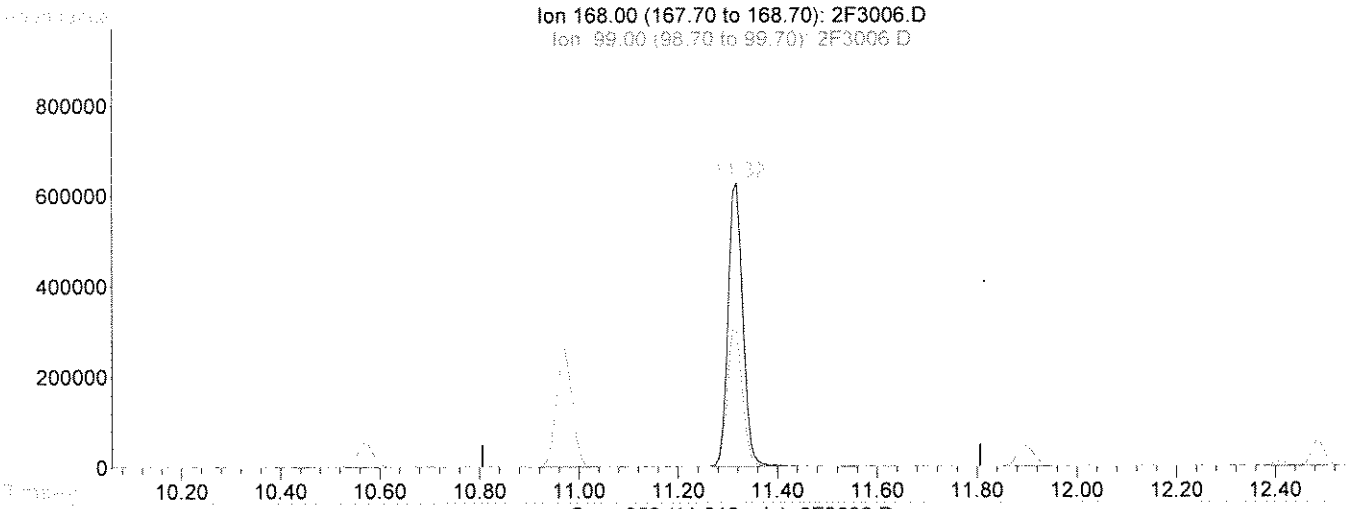
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

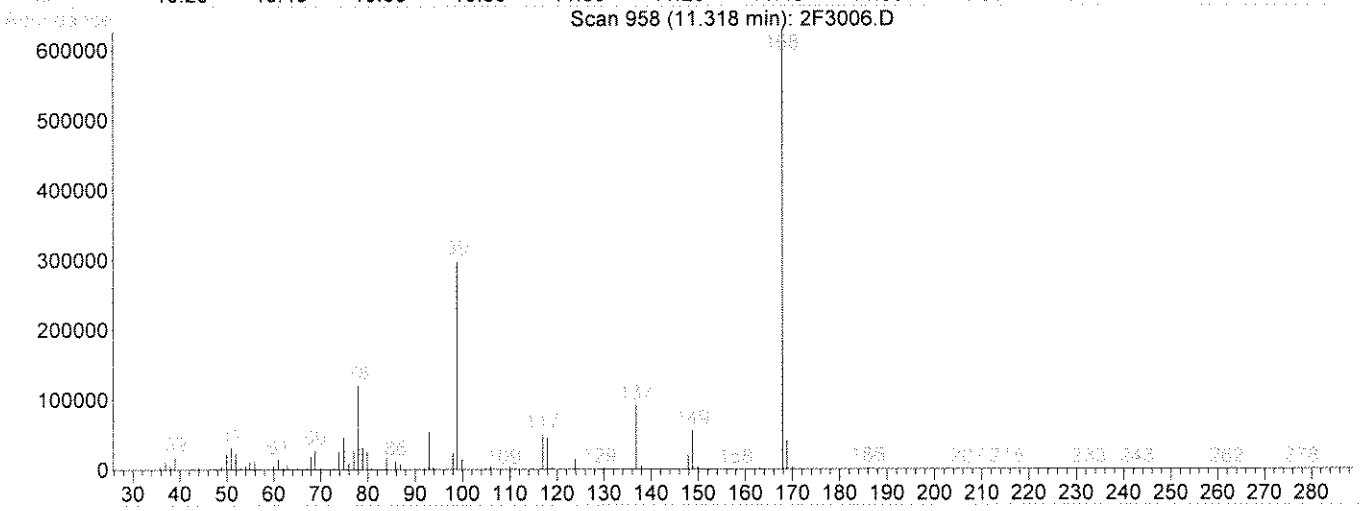


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:11 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:24:39 2013
Response via : Multiple Level Calibration





TIC: 2F3006.D

(1) Pentafluorobenzene(IS) (i)

11.32min 50.00ug/kg

response 1294512

Ion	Exp%	Act%
168.00	100	100
99.00	56.00	49.27
169.00	6.50	6.68
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

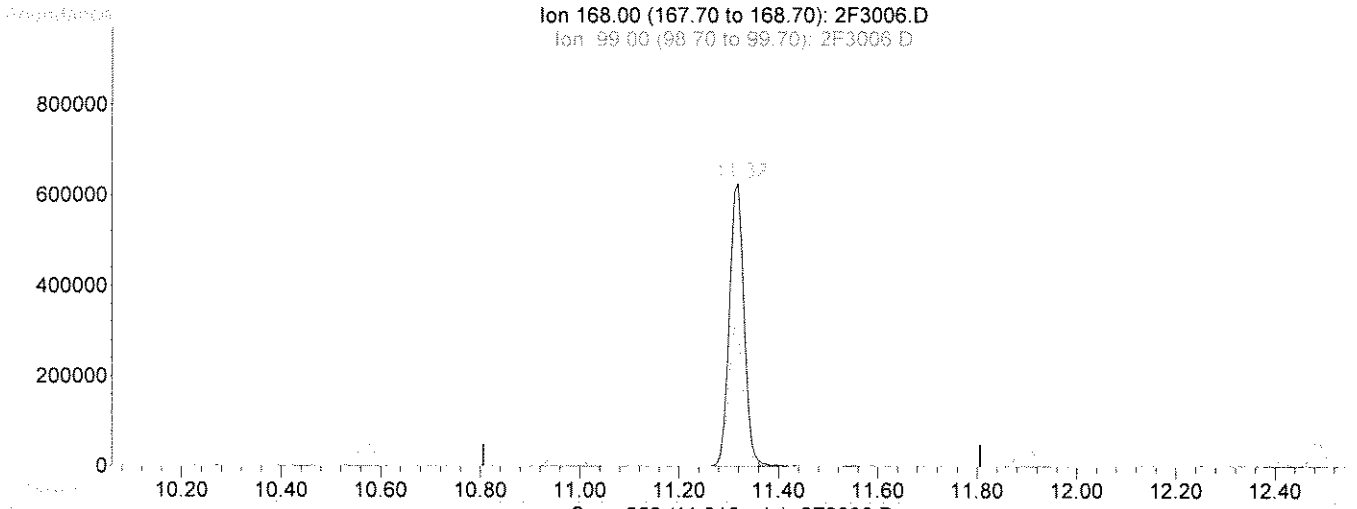
Review by/Date KT 060413

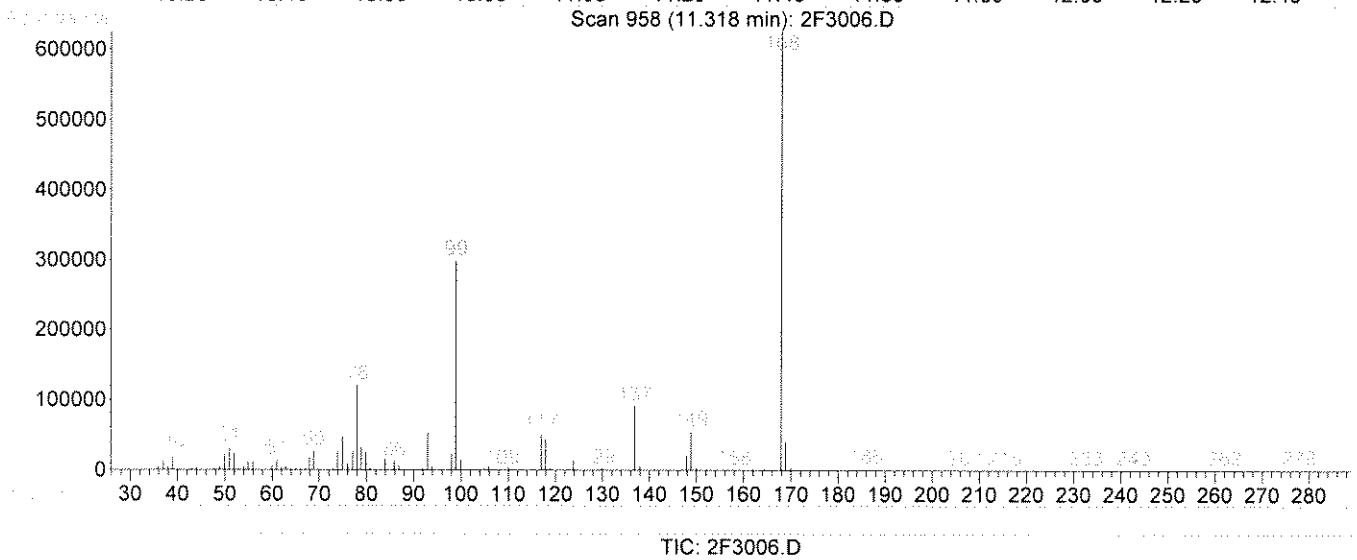
Review by/Date: KB 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





(1) Pentafluorobenzene(IS) (i)

11.32min 50.00ug/kg m

response 1283129

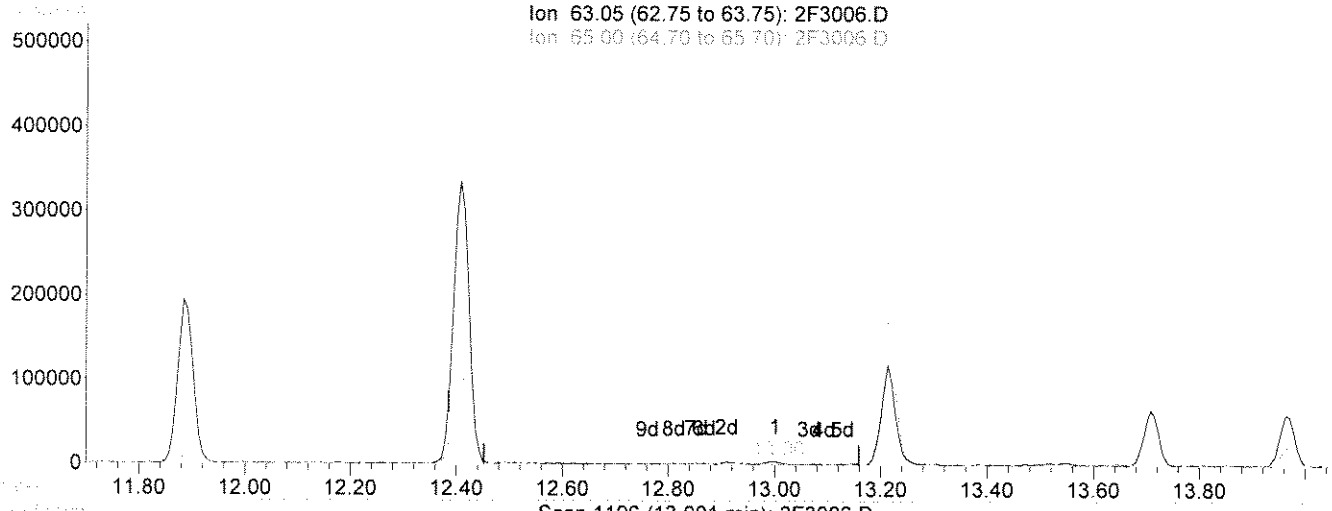
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	49.71
169.00	6.50	6.74
0.00	0.00	0.00

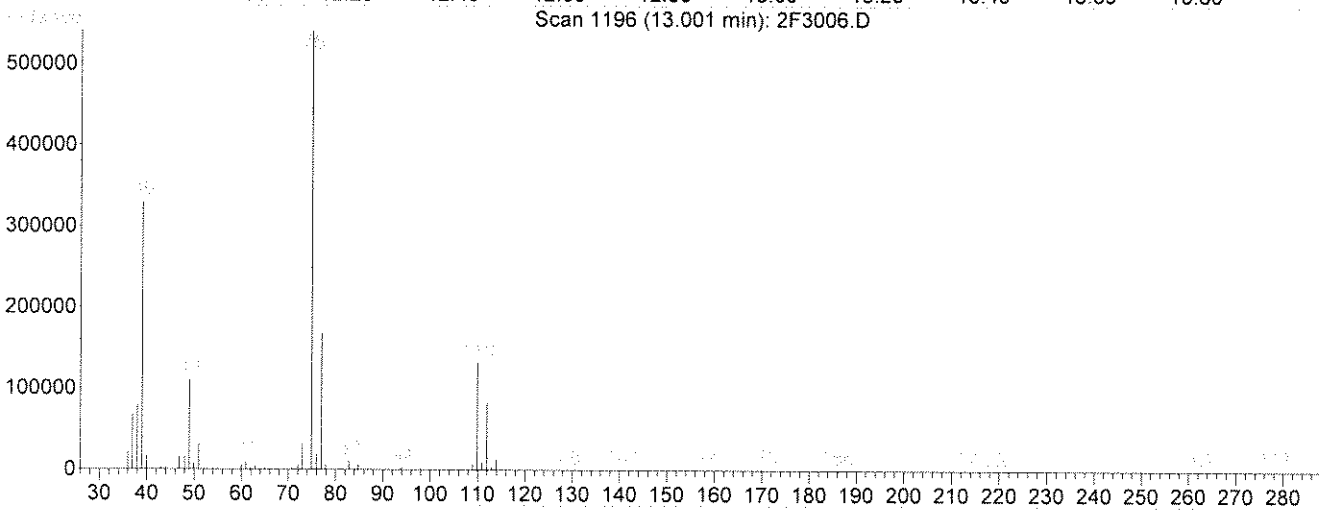
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date UG 060413
KB 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:29 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:53:02 2013
Response via : Multiple Level Calibration





TIC: 2F3006.D

(53) 2-Chloroethyl vinyl ether

13.00min 49.57ug/kg

response 9574

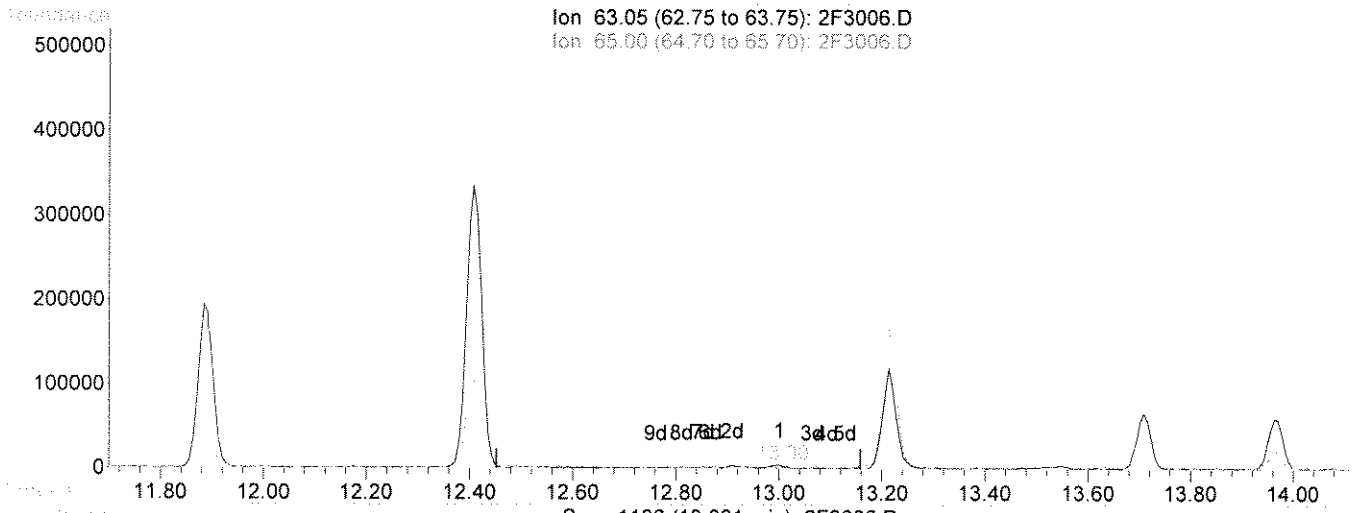
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	12.91
106.05	26.70	2.55
0.00	0.00	0.00

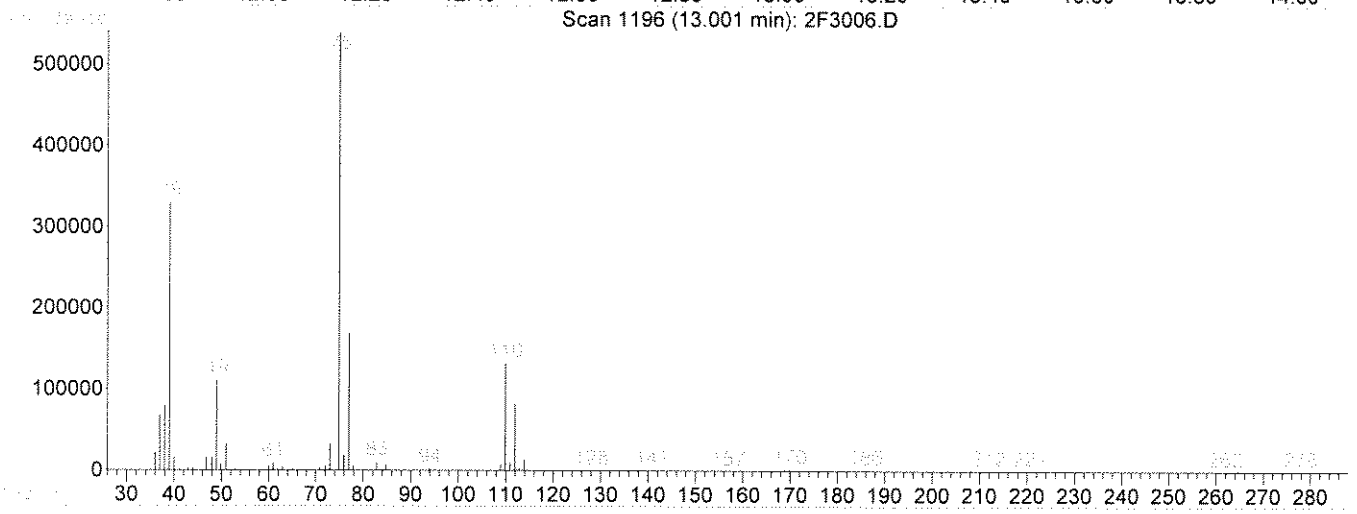
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/6/2013
Review by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3006.D

(53) 2-Chloroethyl vinyl ether

13.00min 75.06ug/kg m

response 14498

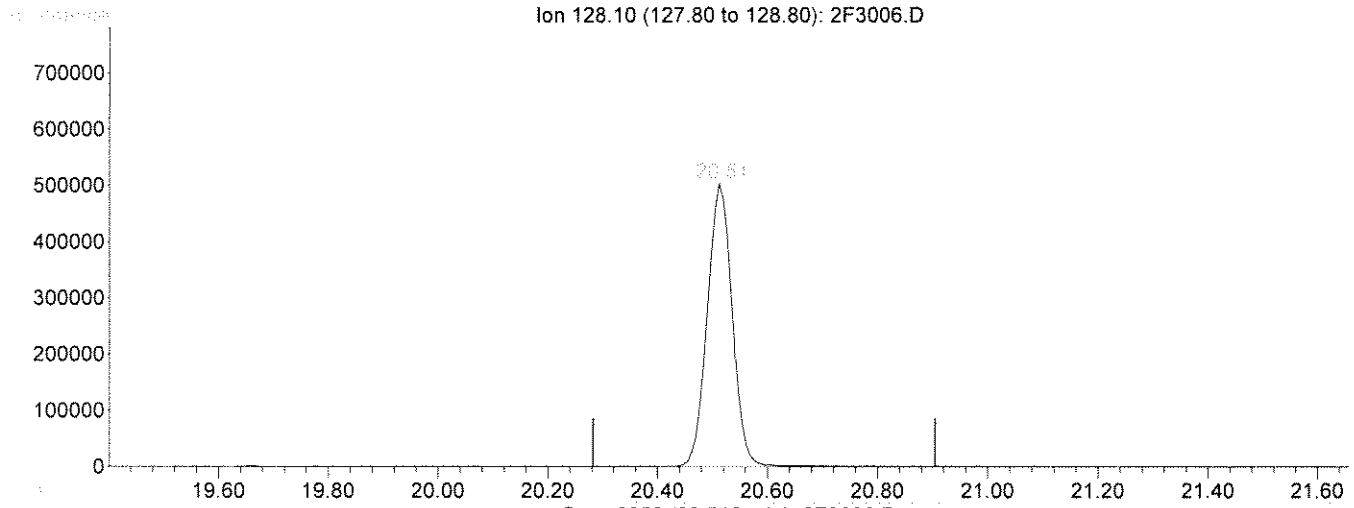
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	8.53
106.05	26.70	1.68
0.00	0.00	0.00

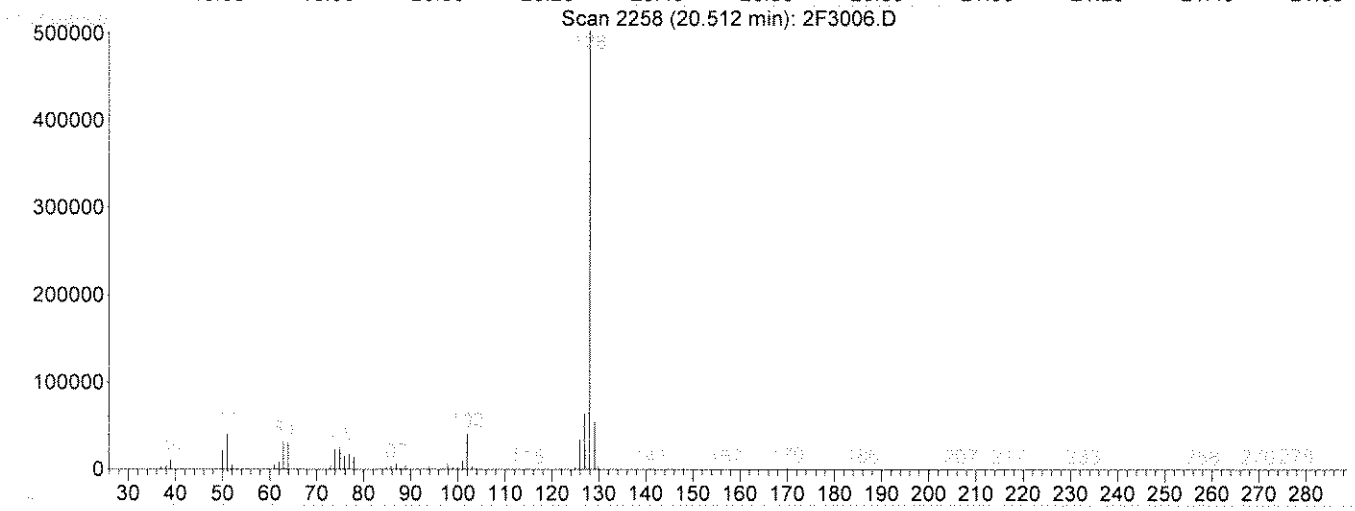
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 60 060413
Review by/Date: KA 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:59 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:11:06 2013
Response via : Multiple Level Calibration





TIC: 2F3006.D

(95) Naphthalene

20.51min 38.42ug/kg

response 1586133

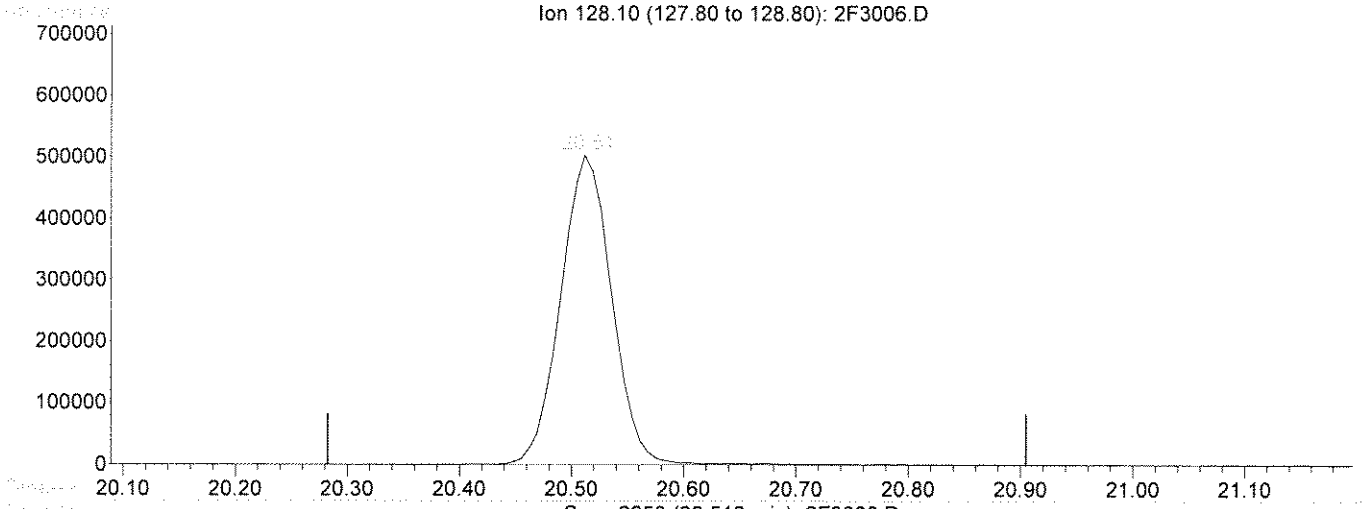
Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

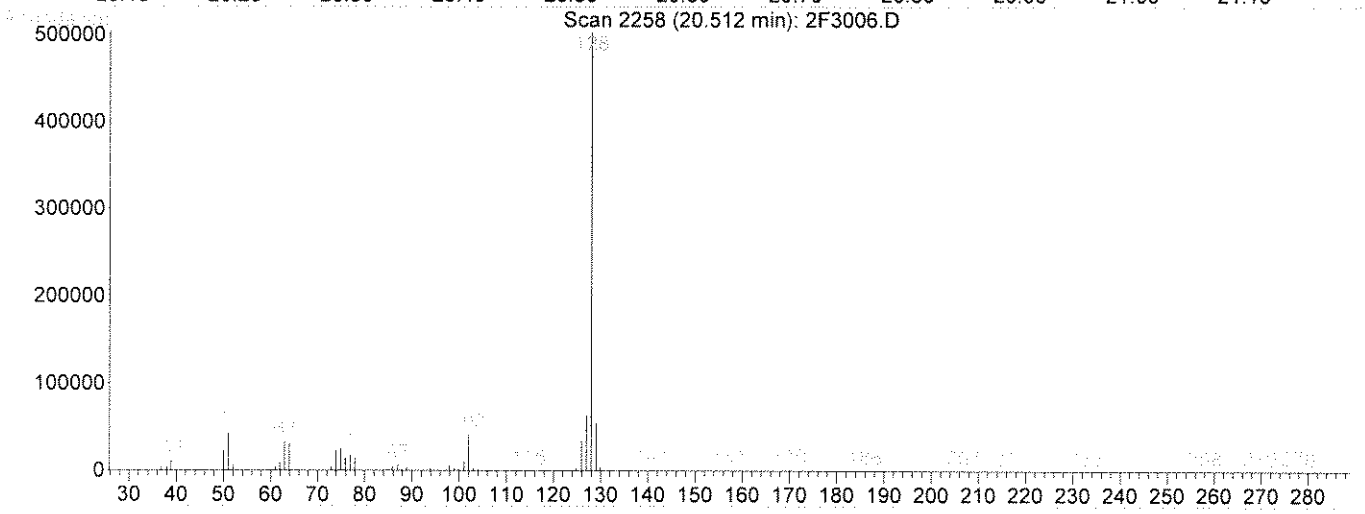
Select One:
✓ [ ] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: LT 060413
Review by/Date: WB 6-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3006.D Vial: 6
Acq On : 3 Jun 2013 15:17 Operator: kat
Sample : 50 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:53 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3006.D

(95) Naphthalene

20.51min 39.21ug/kg m

response 1618736

Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date VT 060413
Review by/Date: KB 6-5-13

2F3006.D S1306004.M Tue Jun 04 13:40:13 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

VG06d113

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1241586m	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1720455	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1501037	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	749187	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	1401249	86.62	ug/kg	0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 173.24%#			
44) 1,2-Dichloroethane-d4	11.48	65	1552949	100.17	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 200.34%#			
56) D8-Toluene	13.17	98	4253070	102.57	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 205.14%#			
77) Bromofluorobenzene	15.68	95	1776615	95.75	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 191.50%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.83	85	1833286	91.28	ug/kg	92
3) Chloromethane	5.38	50	1959298	63.55	ug/kg	100
4) Vinyl Chloride	5.61	62	1931476	77.63	ug/kg	99
5) Bromomethane	6.41	94	597617	76.17	ug/kg	94
6) Chloroethane	6.65	64	578812	73.22	ug/kg	89
7) Trichlorofluoromethane	6.93	101	1591454	90.19	ug/kg	100
8) Trichlorotrifluoroethane	7.93	101	972045	106.27	ug/kg	97
9) acrolein	8.44	56	2071145	1273.49	ug/kg	99
10) Acetone	8.87	43	646856	80.30	ug/kg	96
11) 1,1-Dichloroethene	7.89	96	760632	103.92	ug/kg	98
12) 3-Chloropropene	8.63	76	727282	75.74	ug/kg	89
13) Acetonitrile	9.52	41	2341940	752.21	ug/kg	88
14) Iodomethane	8.15	142	1665551	81.64	ug/kg	92
15) Carbon disulfide	7.98	76	3238455	86.31	ug/kg	99
16) Methylene Chloride	8.79	84	1434953	101.28	ug/kg	89
17) Methyl tert-butyl ether	9.14	73	3887414	118.83	ug/kg	96
18) Acrylonitrile	9.89	53	5619597	891.74	ug/kg	95
19) T-1,2-Dichloroethene	9.01	96	1319778	97.96	ug/kg	98
20) Isopropyl Ether	9.59	45	5320239	99.58	ug/kg	99
21) C-1,2-Dichloroethene	10.44	96	1405625	99.28	ug/kg	95
22) 1,1-Dichloroethane	9.82	63	2415532	96.26	ug/kg#	67
23) Vinyl Acetate	10.05	43	4225558	71.87	ug/kg	95
24) Chloroprene	9.79	53	2033663	81.29	ug/kg	76
25) 2-Butanone	11.02	72	186304	85.74	ug/kg	99
26) Propionitrile	11.36	54	1963917	728.01	ug/kg	100
27) 2,2-Dichloropropane	10.57	77	1870554	102.09	ug/kg	98
28) Methacrylonitrile	11.38	67	5350081	818.68	ug/kg	48
29) Chloroform	10.71	83	2192700	97.51	ug/kg	92
31) Dibromofluoromethane	10.91	113	1401249	86.62	ug/kg	100
32) Bromochloromethane	10.67	128	707279	89.83	ug/kg	80
33) 1,1,1-Trichloroethane	10.97	97	1722496	102.49	ug/kg#	97
34) 1,1-Dichloropropene	11.08	75	1803852	102.66	ug/kg	91
35) Diethyl ether	7.55	59	935764	97.11	ug/kg	96
36) Methyl Acetate	9.01	74	274868	103.02	ug/kg#	86
37) Cyclohexane	10.68	56	2297477	90.00	ug/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	1940540	102.77 ug/kg#	81
40) Carbon Tetrachloride	10.90	117	1495420	116.14 ug/kg	97
41) 1,2-Dichloroethane	11.55	62	1809667	108.55 ug/kg	94
42) Benzene	11.35	78	4309105	108.64 ug/kg#	48
43) Isobutyl Alcohol	11.42	43	3002900	2023.37 ug/kg#	1
45) 1,2-Dichloroethane-d4	11.48	65	1552949	100.17 ug/kg#	95
46) Trichloroethene	11.89	130	1268362	110.04 ug/kg	95
47) 1,2-Dichloropropane	12.41	63	1358836	107.66 ug/kg	86
48) Methyl Methacrylate	12.49	100	438724	93.96 ug/kg#	1
49) 1,4-Dioxane	12.61	88	386271	2158.47 ug/kg#	64
50) Bromodichloromethane	12.43	83	1761812	115.68 ug/kg#	100
51) Dibromomethane	12.32	93	904517	110.96 ug/kg#	79
52) 4-Methyl-2-Pentanone	13.49	100	228326	93.94 ug/kg	90
53) 2-Chloroethyl vinyl ether	13.00	63	29013m	160.46 ug/kg	50
54) 2-Hexanone	14.20	43	1469610	83.81 ug/kg	95
55) C-1,3-Dichloropropene	13.00	75	2379509	114.33 ug/kg	81
57) D8-Toluene	13.17	98	4253070	102.57 ug/kg	98
59) Toluene	13.22	92	3003326	113.00 ug/kg	97
60) Ethyl Methacrylate	13.60	69	1804240	88.31 ug/kg#	75
61) T-1,3-Dichloropropene	13.55	75	2102959	119.24 ug/kg	77
62) 1,1,2-Trichloroethane	13.71	97	1212376	115.96 ug/kg	98
63) 1,3-Dichloropropane	13.97	76	2272639	114.76 ug/kg	98
64) Tetrachloroethene	13.57	164	1029425	116.53 ug/kg	88
65) Dibromochloromethane	13.89	129	1684346	118.05 ug/kg	95
66) 1,2-Dibromoethane	14.15	107	1447446	114.79 ug/kg	94
67) Chlorobenzene	14.58	112	3423608	112.55 ug/kg	90
68) 1,1,1,2-Tetrachloroethane	14.61	131	1377294	119.76 ug/kg	91
69) Ethylbenzene	14.55	106	1672117	111.71 ug/kg	96
70) m-xylene & p-xylene	14.66	106	4076456	220.86 ug/kg	81
71) O-Xylene	15.08	106	2209069	113.82 ug/kg	95
72) Bromoform	15.22	173	1434105m	148.49 ug/kg	92
73) Styrene	15.12	104	3799773	116.38 ug/kg	89
74) Isopropylbenzene	15.34	105	5543600	115.84 ug/kg	98
75) 1,2,3-Trichloropropane	16.00	75	2281891	116.19 ug/kg	97
76) 1,1,2,2-Tetrachloroethane	15.80	83	2048950	130.99 ug/kg	98
78) Bromofluorobenzene	15.68	95	1776615	95.75 ug/kg#	65
79) T-1,4-dichloro-2-butene	15.99	53	511303	87.61 ug/kg#	36
80) N-Propylbenzene	15.75	91	6412066	112.51 ug/kg	94
82) Bromobenzene	15.83	156	1626399	121.59 ug/kg	80
83) 1,3,5-Trimethylbenzene	15.90	105	4368575	114.23 ug/kg	88
84) 2-Chlorotoluene	15.97	91	4203839	117.12 ug/kg	96
85) 4-Chlorotoluene	16.14	91	4351419	122.59 ug/kg	92
86) 1,2,4-Trimethylbenzene	16.34	105	4261749	113.89 ug/kg	94
87) s-Butylbenzene	16.47	105	5912422	118.01 ug/kg	91
88) tert-Butylbenzene	16.28	119	4017123	118.63 ug/kg	95
89) p-Isopropyltoluene	16.59	119	4391509	115.65 ug/kg	96
90) 1,3-Dichlorobenzene	16.82	146	2881655	117.85 ug/kg	91
91) 1,4-Dichlorobenzene	16.91	146	2822333	118.09 ug/kg	94
92) 1,2-Dichlorobenzene	17.47	146	2985155	127.63 ug/kg	96
93) N-Butylbenzene	17.10	91	4306713	116.31 ug/kg	94
94) DBCP	18.61	75	398410	139.83 ug/kg	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.51	128	3940065	102.90 ug/kg	100
96)	1,2,4-Trichlorobenzene	19.80	180	1842170	123.77 ug/kg	90
97)	Hexachlorobutadiene	19.64	225	963846	146.18 ug/kg	99
98)	1,2,3-Trichlorobenzene	20.93	180	1672133	123.64 ug/kg	92

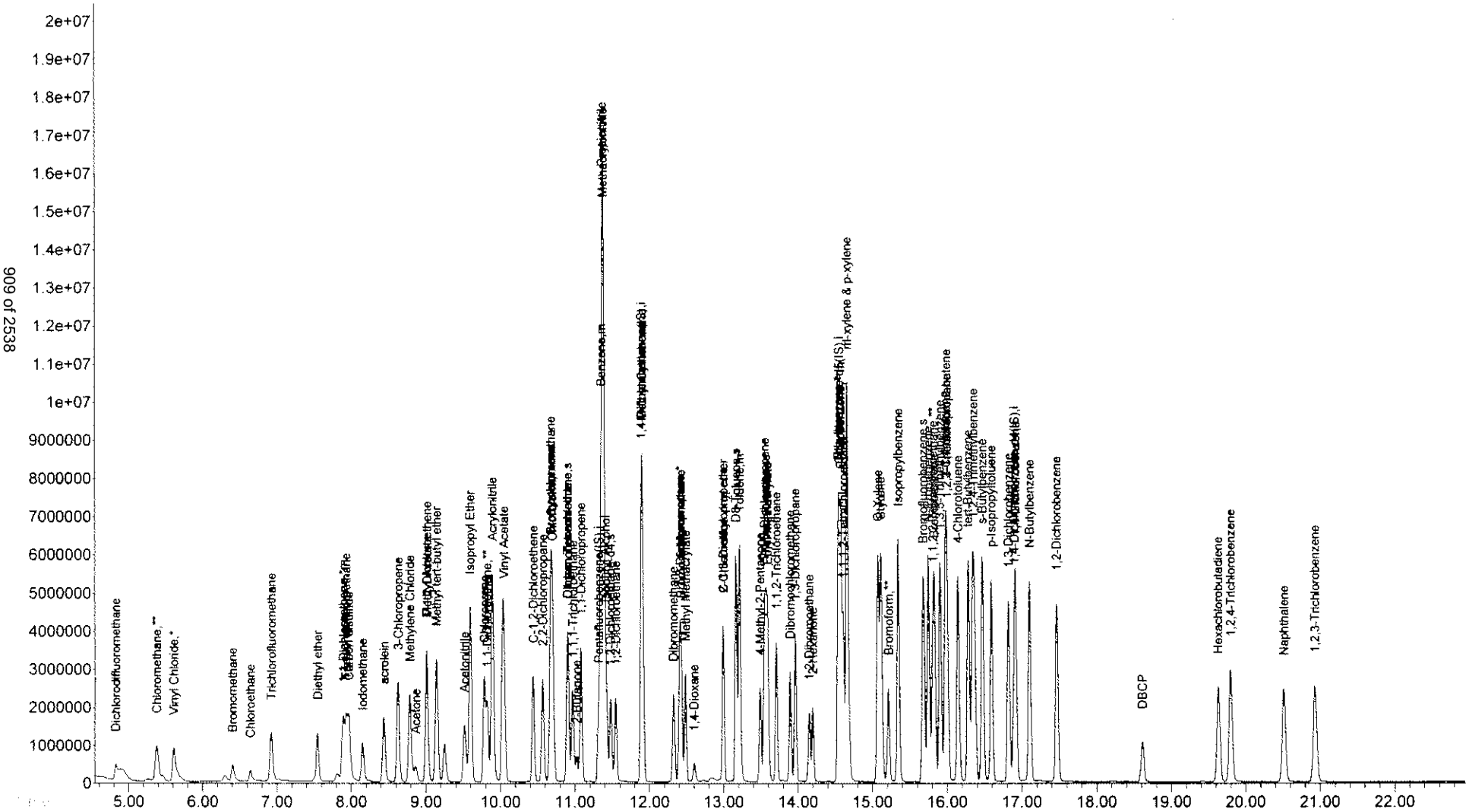
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

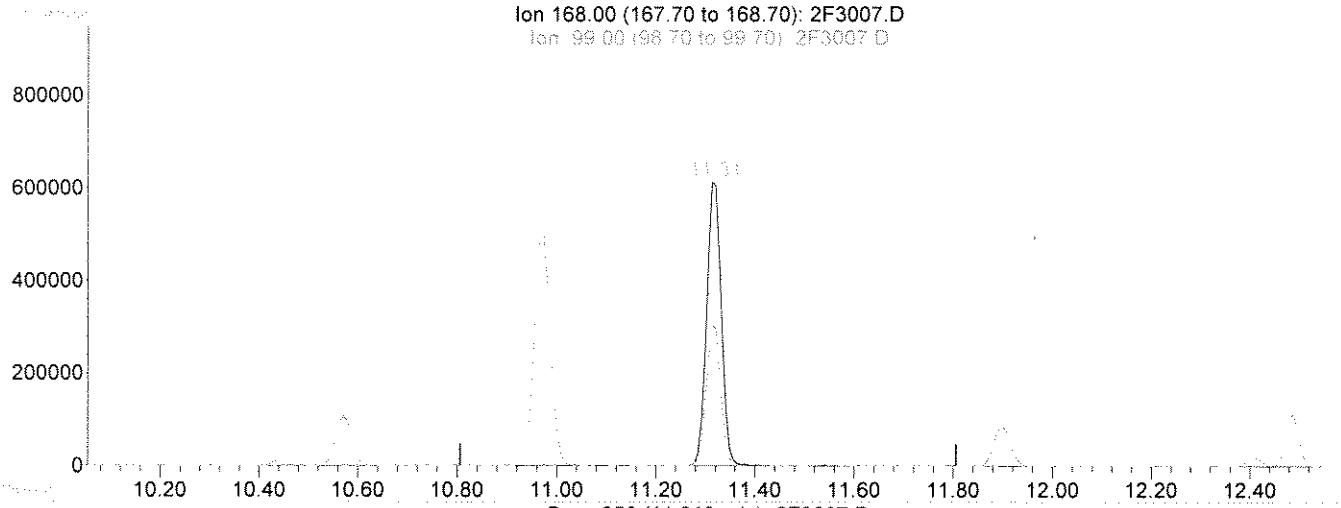
TIC: 2F3007.D

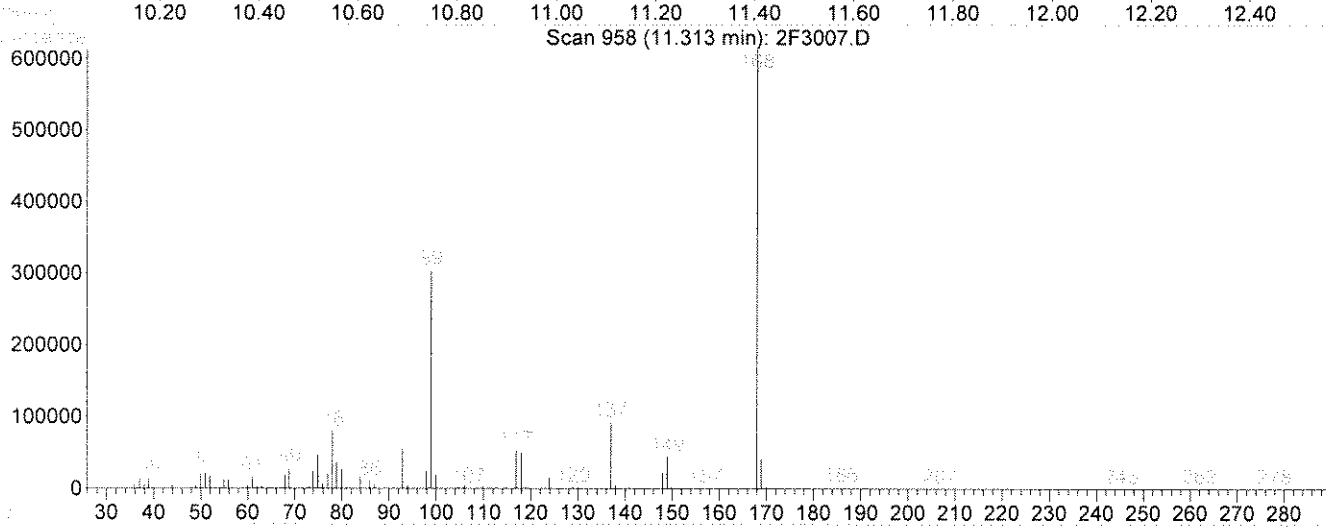


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration





TIC: 2F3007.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg

response 1247042

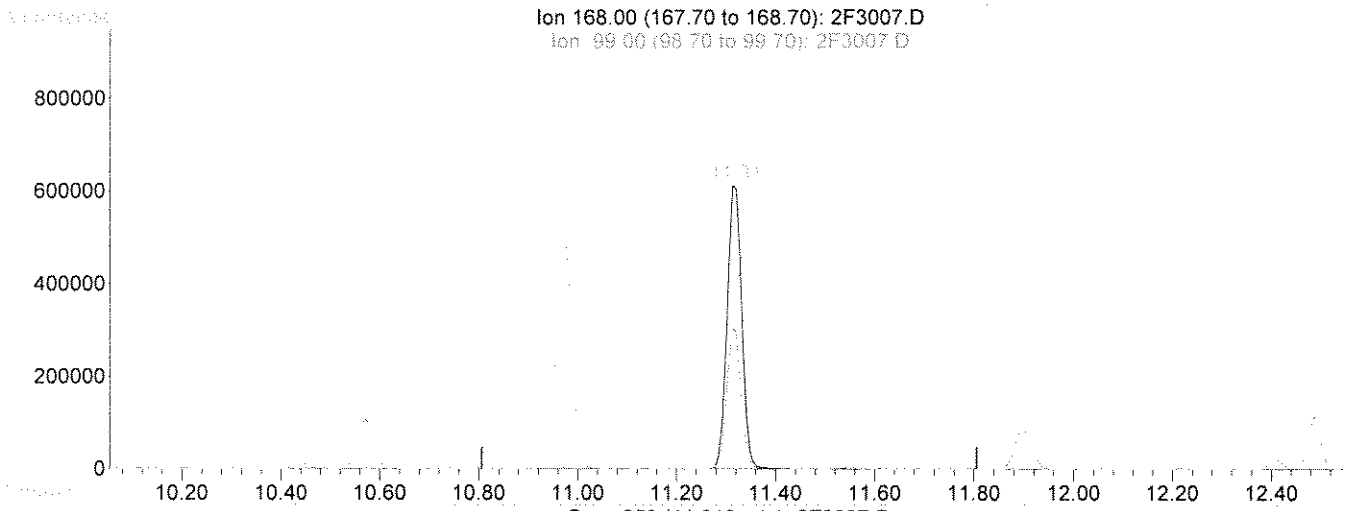
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	48.56
169.00	6.50	6.63
0.00	0.00	0.00

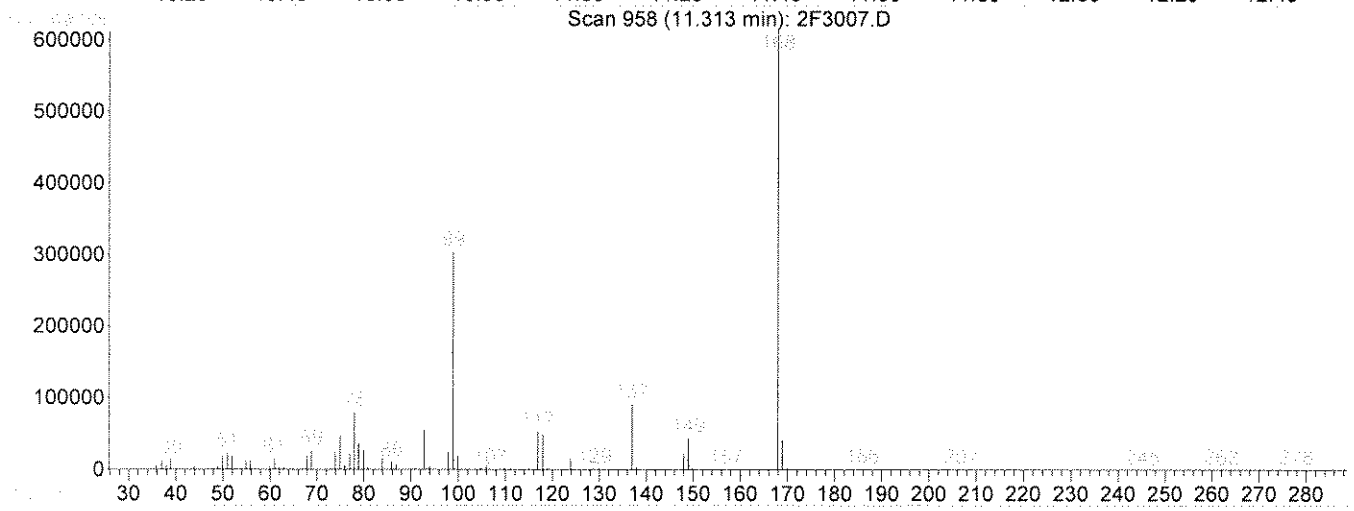
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: LT 060413
Review by/Date: KB 6/5/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:59 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration





TIC: 2F3007.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg m

response 1241586

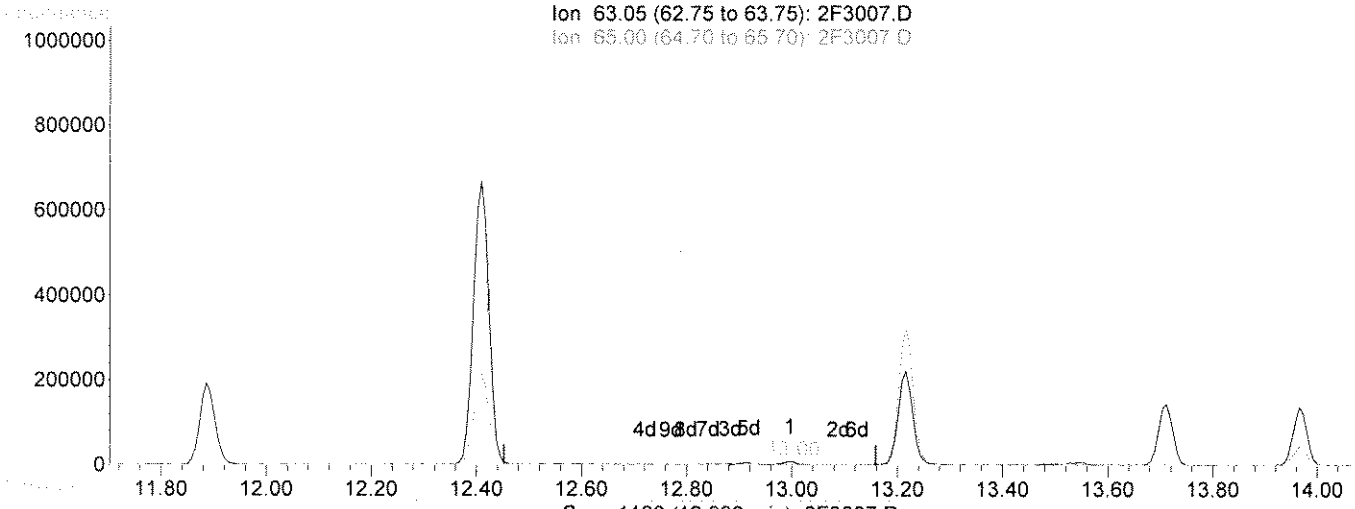
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	48.77
169.00	6.50	6.66
0.00	0.00	0.00

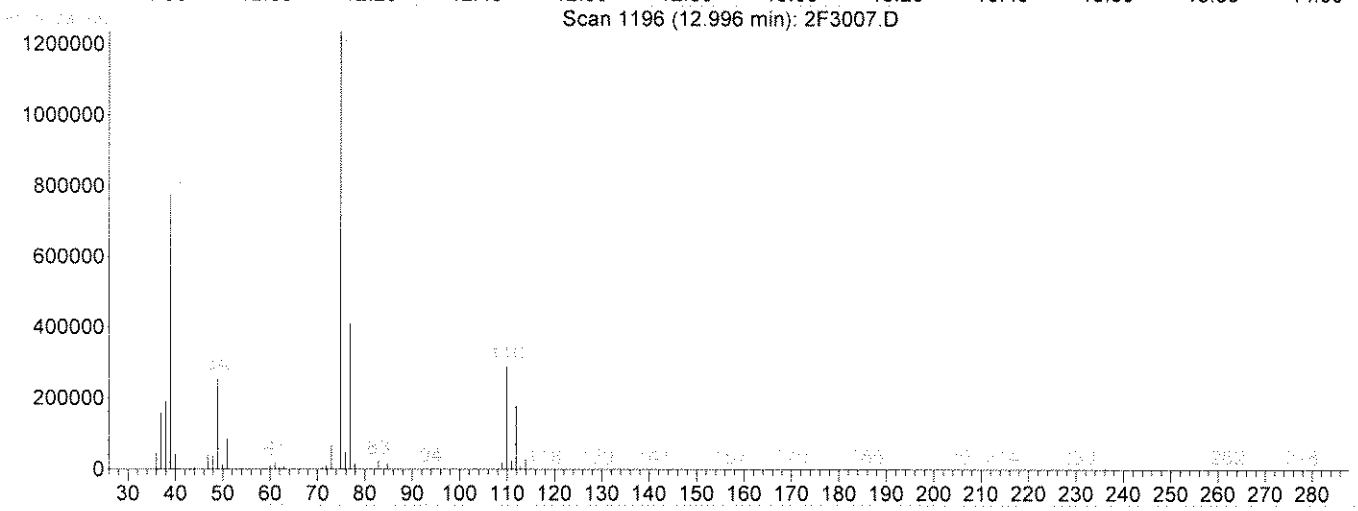
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date KT 060413
Review by/Date: KS 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:33 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:54:07 2013
Response via : Multiple Level Calibration





TIC: 2F3007.D

(53) 2-Chloroethyl vinyl ether

13.00min 104.82ug/kg

response 18953

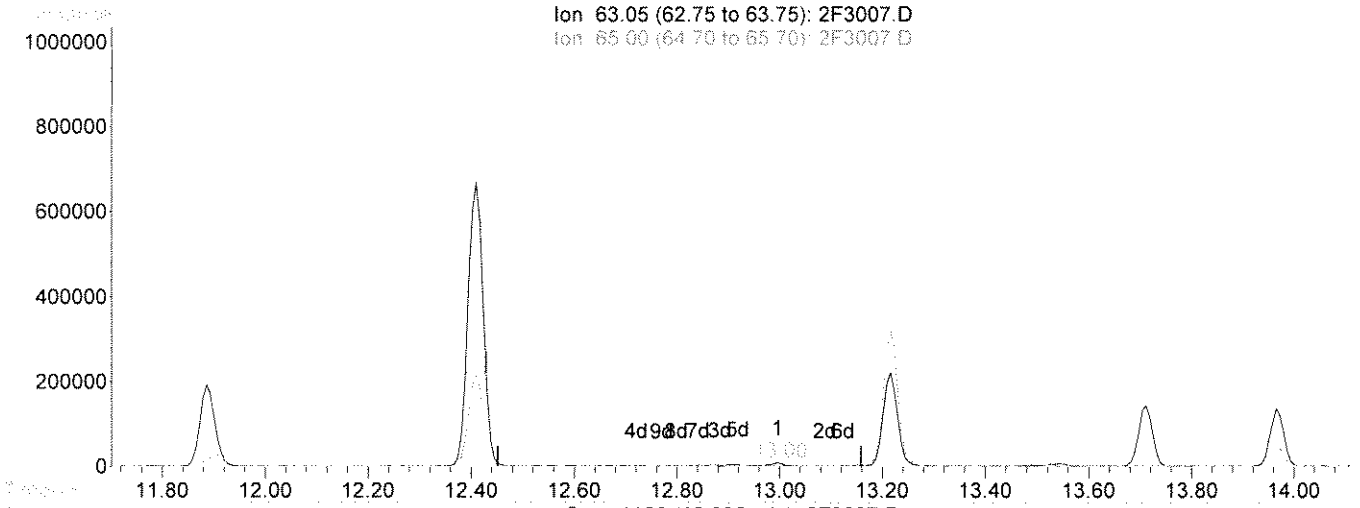
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	6.32
106.05	26.70	0.41
0.00	0.00	0.00

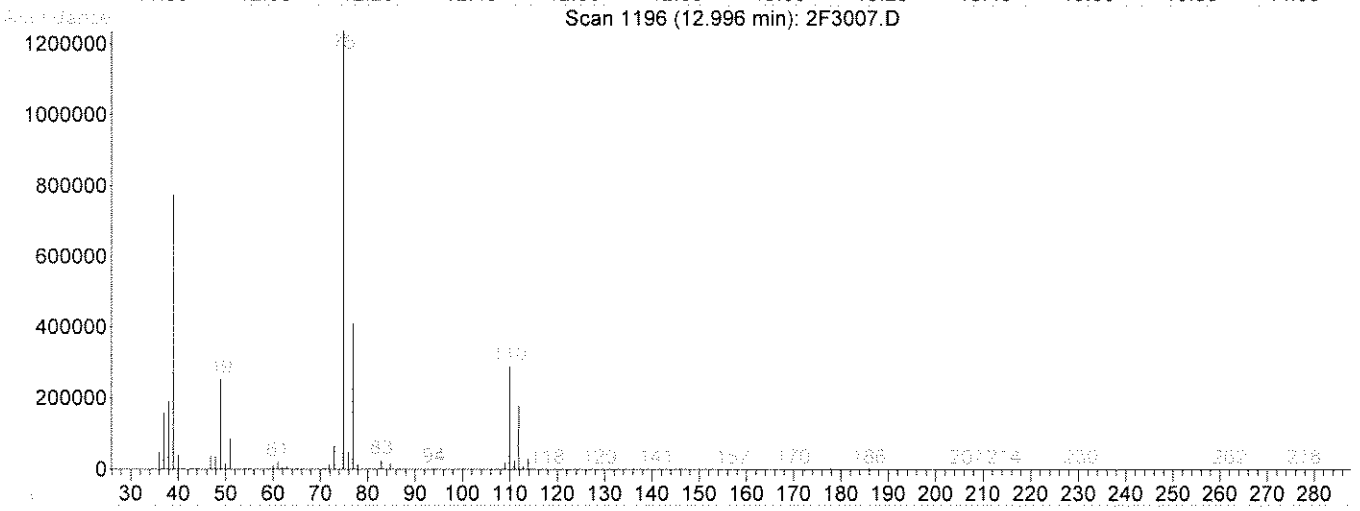
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date
Review by/Date: 06/04/13
KB 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





(53) 2-Chloroethyl vinyl ether

13.00min 160.46ug/kg m

response 29013

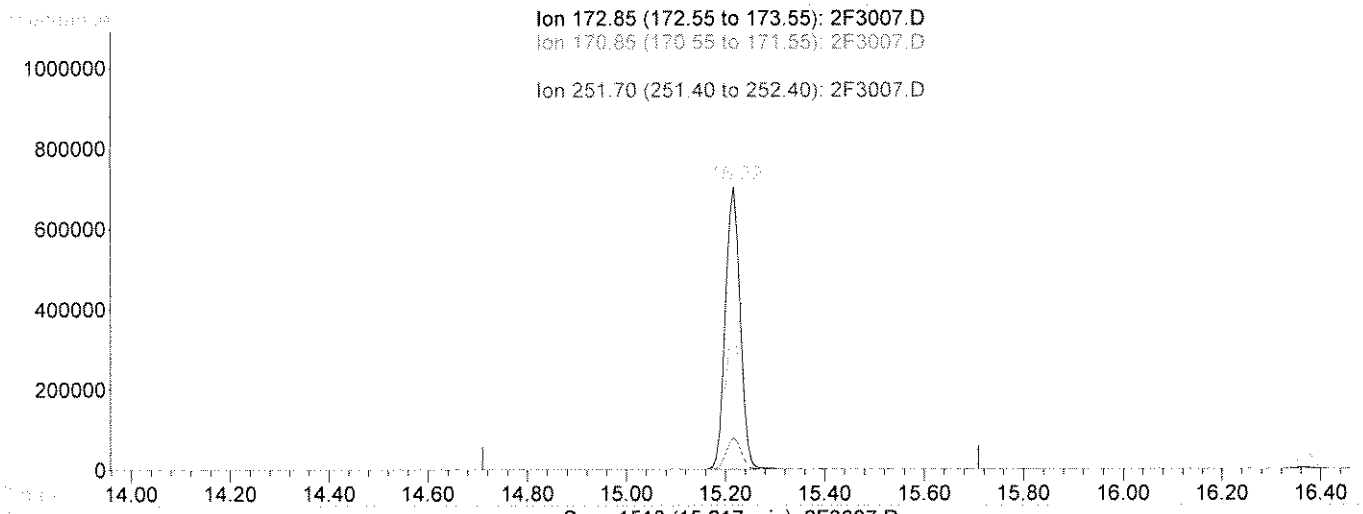
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	4.13#
106.05	26.70	0.27
0.00	0.00	0.00

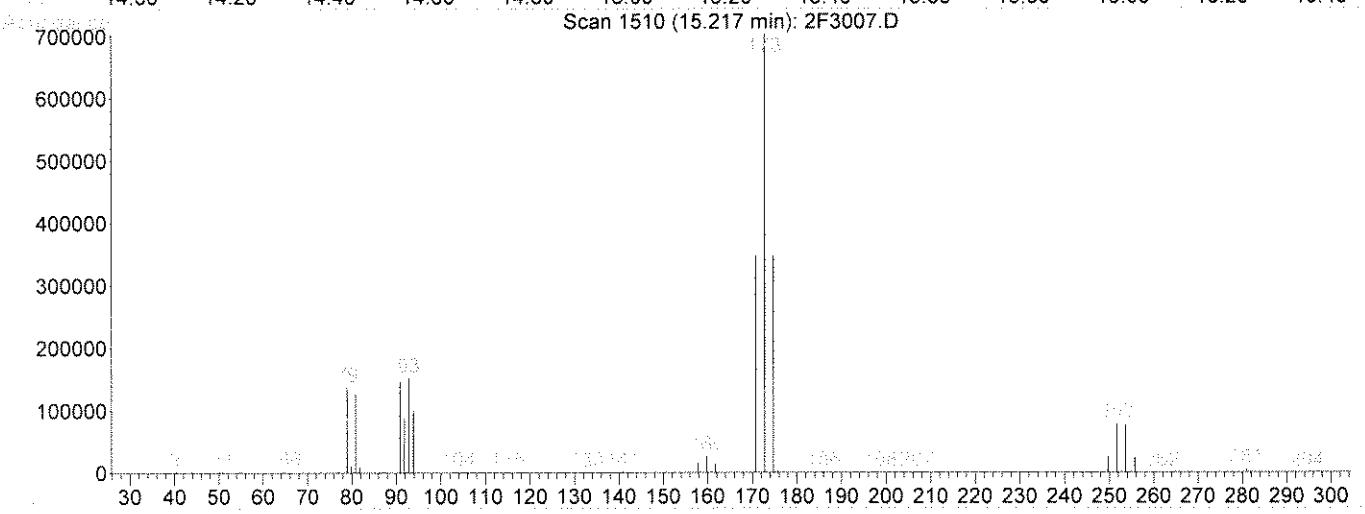
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date KG 060413
Review by/Date: [illegible]

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D Vial: 7
Acq On : 3 Jun 2013 15:51 Operator: kat
Sample : 100 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:00 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:15:42 2013
Response via : Multiple Level Calibration





(72) Bromoform (**)

15.22min 149.87ug/kg

response 1447442

Ion	Exp%	Act%
172.85	100	100
170.85	61.90	50.78
174.85	48.70	48.46
251.70	8.60	11.24

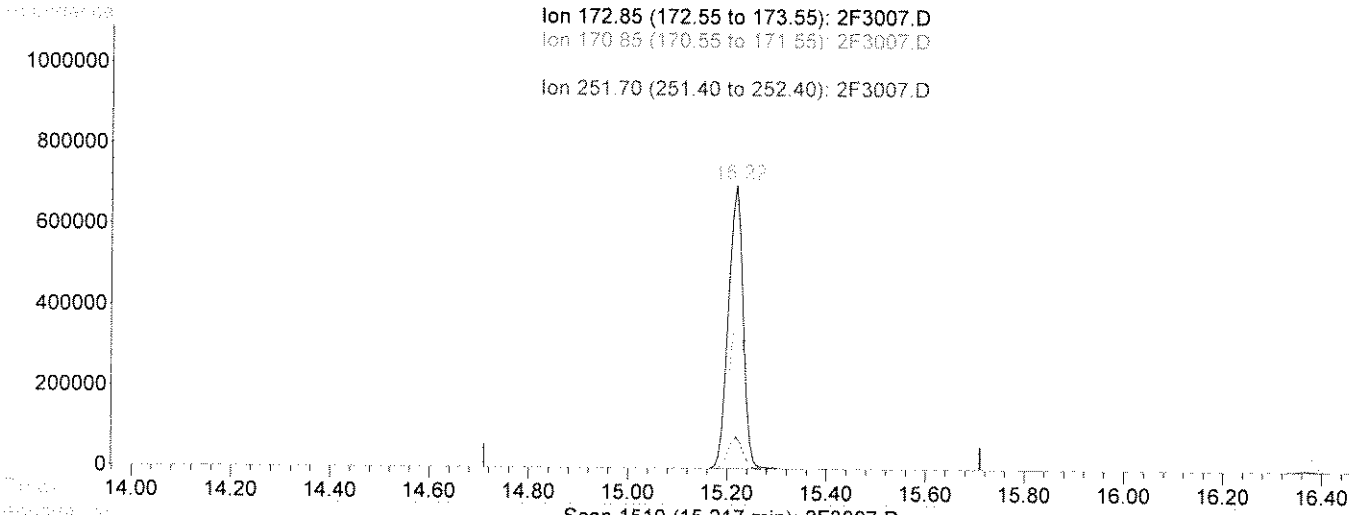
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date kt 060413
Review by/Date: 06-5-13

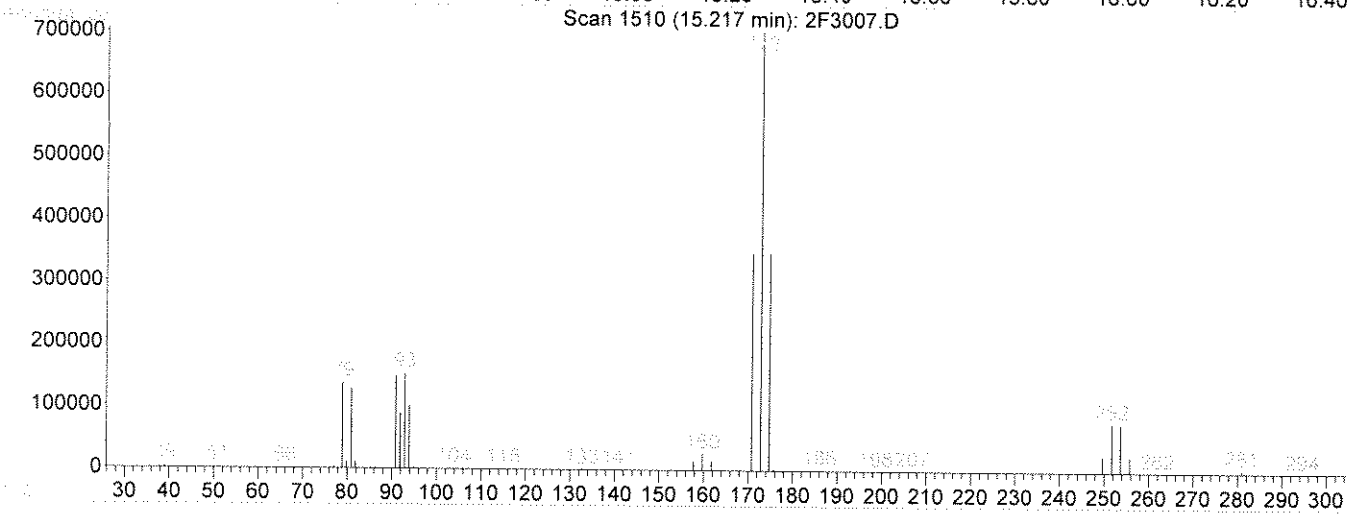
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3007.D
Acq On : 3 Jun 2013 15:51
Sample : 100 ppb
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013

Vial: 7
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3007.D

(72) Bromoform (**)

15.22min 148.49ug/kg m

response 1434105

Ion	Exp%	Act%
172.85	100	100
170.85	61.90	51.25
174.85	48.70	48.91
251.70	8.60	11.34

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date VG 060413
Review by/Date: 13 6 5/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Lg 060413

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1208805m	50.00	ug/kg	0.01
38) 1,4-Difluorobenzene(IS)	11.88	114	1559795	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1405272	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	760479	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.91	113	2283315	144.97	ug/kg	0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 289.94%#			
44) 1,2-Dichloroethane-d4	11.48	65	2641129	187.91	ug/kg	0.01
Spiked Amount 50.000	Range 67 - 146		Recovery = 375.82%#			
56) D8-Toluene	13.16	98	6904453	183.66	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 367.32%#			
77) Bromofluorobenzene	15.68	95	2997296	172.55	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 345.10%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.91	85	3338712	170.75	ug/kg	94
3) Chloromethane	5.38	50	3647882	121.53	ug/kg	99
4) Vinyl Chloride	5.61	62	3397854	140.28	ug/kg	98
5) Bromomethane	6.40	94	674170	88.26	ug/kg	93
6) Chloroethane	6.64	64	611179	79.41	ug/kg	90
7) Trichlorofluoromethane	6.89	101	1606745	93.53	ug/kg	100
8) Trichlorotrifluoroethane	7.92	101	1689183	189.68	ug/kg	97
9) acrolein	8.45	56	3921544	2476.65	ug/kg	99
10) Acetone	8.87	43	1144572	145.93	ug/kg	95
11) 1,1-Dichloroethene	7.87	96	1352300	189.76	ug/kg	99
12) 3-Chloropropene	8.62	76	1351278	144.54	ug/kg	86
13) Acetonitrile	9.53	41	4306480	1420.71	ug/kg	88
14) Iodomethane	8.14	142	3011857	151.63	ug/kg	92
15) Carbon disulfide	7.95	76	5856480	160.31	ug/kg	99
16) Methylene Chloride	8.78	84	2490151	180.52	ug/kg	89
17) Methyl tert-butyl ether	9.15	73	6626325	208.04	ug/kg	96
18) Acrylonitrile	9.90	53	9497802	1548.01	ug/kg	94
19) T-1,2-Dichloroethene	9.01	96	2268026	172.91	ug/kg	98
20) Isopropyl Ether	9.60	45	9017213	173.36	ug/kg	97
21) C-1,2-Dichloroethene	10.44	96	2376373	172.39	ug/kg	95
22) 1,1-Dichloroethane	9.82	63	4161053	170.32	ug/kg	98
23) Vinyl Acetate	10.06	43	7396149	129.20	ug/kg	96
24) Chloroprene	9.78	53	3727591	153.04	ug/kg	76
25) 2-Butanone	11.03	72	358836	169.62	ug/kg	95
26) Propionitrile	11.37	54	2920766	1112.07	ug/kg	100
27) 2,2-Dichloropropane	10.57	77	3261152	182.81	ug/kg	98
28) Methacrylonitrile	11.38	67	6971188	1095.67	ug/kg	67
29) Chloroform	10.71	83	3708754	169.41	ug/kg	91
31) Dibromofluoromethane	10.91	113	2283315	144.97	ug/kg	100
32) Bromochloromethane	10.67	128	1203507	157.01	ug/kg	82
33) 1,1,1-Trichloroethane	10.97	97	2991126	182.80	ug/kg#	98
34) 1,1-Dichloropropene	11.08	75	3108858	181.72	ug/kg	92
35) Diethyl ether	7.56	59	1656572	176.57	ug/kg	96
36) Methyl Acetate	9.01	74	476184	183.32	ug/kg	91
37) Cyclohexane	10.68	56	3834367	154.27	ug/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	3194842	186.63 ug/kg#	82
40) Carbon Tetrachloride	10.89	117	2501160	214.27 ug/kg	97
41) 1,2-Dichloroethane	11.55	62	3109556	205.73 ug/kg	95
42) Benzene	11.35	78	7284126	202.57 ug/kg#	49
43) Isobutyl Alcohol	11.44	43	5182719m	3851.83 ug/kg	1
45) 1,2-Dichloroethane-d4	11.48	65	2641129	187.91 ug/kg	96
46) Trichloroethene	11.89	130	2071993	198.28 ug/kg	95
47) 1,2-Dichloropropane	12.41	63	2271774	198.53 ug/kg	85
48) Methyl Methacrylate	12.49	100	824914	194.87 ug/kg#	1
49) 1,4-Dioxane	12.61	88	765389	4717.50 ug/kg#	63
50) Bromodichloromethane	12.43	83	2964358	214.69 ug/kg#	100
51) Dibromomethane	12.32	93	1562673	211.45 ug/kg	82
52) 4-Methyl-2-Pentanone	13.50	100	432769	196.39 ug/kg	95
53) 2-Chloroethyl vinyl ether	12.99	63	40388m	246.37 ug/kg	60
54) 2-Hexanone	14.20	43	2694376	169.48 ug/kg	96
55) C-1,3-Dichloropropene	12.99	75	3986524	211.28 ug/kg	79
57) D8-Toluene	13.16	98	6904453	183.66 ug/kg	96
59) Toluene	13.21	92	4900767	196.96 ug/kg	95
60) Ethyl Methacrylate	13.60	69	3256501	170.25 ug/kg#	75
61) T-1,3-Dichloropropene	13.55	75	3294306	199.52 ug/kg	77
62) 1,1,2-Trichloroethane	13.71	97	1954355	199.66 ug/kg	98
63) 1,3-Dichloropropane	13.97	76	3653634	197.07 ug/kg	98
64) Tetrachloroethene	13.57	164	1696709	205.15 ug/kg	88
65) Dibromochloromethane	13.89	129	2619803	196.13 ug/kg	95
66) 1,2-Dibromoethane	14.15	107	2362972	200.16 ug/kg	94
67) Chlorobenzene	14.58	112	5373355	188.68 ug/kg	88
68) 1,1,1,2-Tetrachloroethane	14.61	131	2134800	198.28 ug/kg	91
69) Ethylbenzene	14.54	106	2754939	196.59 ug/kg	93
70) m-xylene & p-xylene	14.66	106	6475492	374.75 ug/kg	79
71) O-Xylene	15.07	106	3619881	199.23 ug/kg	94
72) Bromoform	15.22	173	2013949	222.74 ug/kg	92
73) Styrene	15.12	104	5988702	195.92 ug/kg	87
74) Isopropylbenzene	15.34	105	8743432	195.15 ug/kg	97
75) 1,2,3-Trichloropropane	16.00	75	3381495	183.91 ug/kg	99
76) 1,1,2,2-Tetrachloroethane	15.81	83	2846164	194.36 ug/kg	98
78) Bromofluorobenzene	15.68	95	2997296	172.55 ug/kg#	63
79) T-1,4-dichloro-2-butene	15.99	53	920486	168.47 ug/kg#	72
80) N-Propylbenzene	15.75	91	10763767	201.75 ug/kg	93
82) Bromobenzene	15.83	156	2548004	187.65 ug/kg	80
83) 1,3,5-Trimethylbenzene	15.91	105	7109558	183.15 ug/kg	89
84) 2-Chlorotoluene	15.98	91	6556701	179.96 ug/kg	95
85) 4-Chlorotoluene	16.14	91	6861940	190.44 ug/kg	91
86) 1,2,4-Trimethylbenzene	16.34	105	6645791	174.96 ug/kg	93
87) s-Butylbenzene	16.47	105	9392468	184.69 ug/kg	91
88) tert-Butylbenzene	16.28	119	6467917	188.17 ug/kg	97
89) p-Isopropyltoluene	16.59	119	7114241	184.57 ug/kg	98
90) 1,3-Dichlorobenzene	16.82	146	4635130	186.75 ug/kg	92
91) 1,4-Dichlorobenzene	16.92	146	4428492	182.54 ug/kg	95
92) 1,2-Dichlorobenzene	17.47	146	4489728	189.11 ug/kg	96
93) N-Butylbenzene	17.10	91	6792474	180.72 ug/kg	93
94) DBCP	18.62	75	613638	212.18 ug/kg	84

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

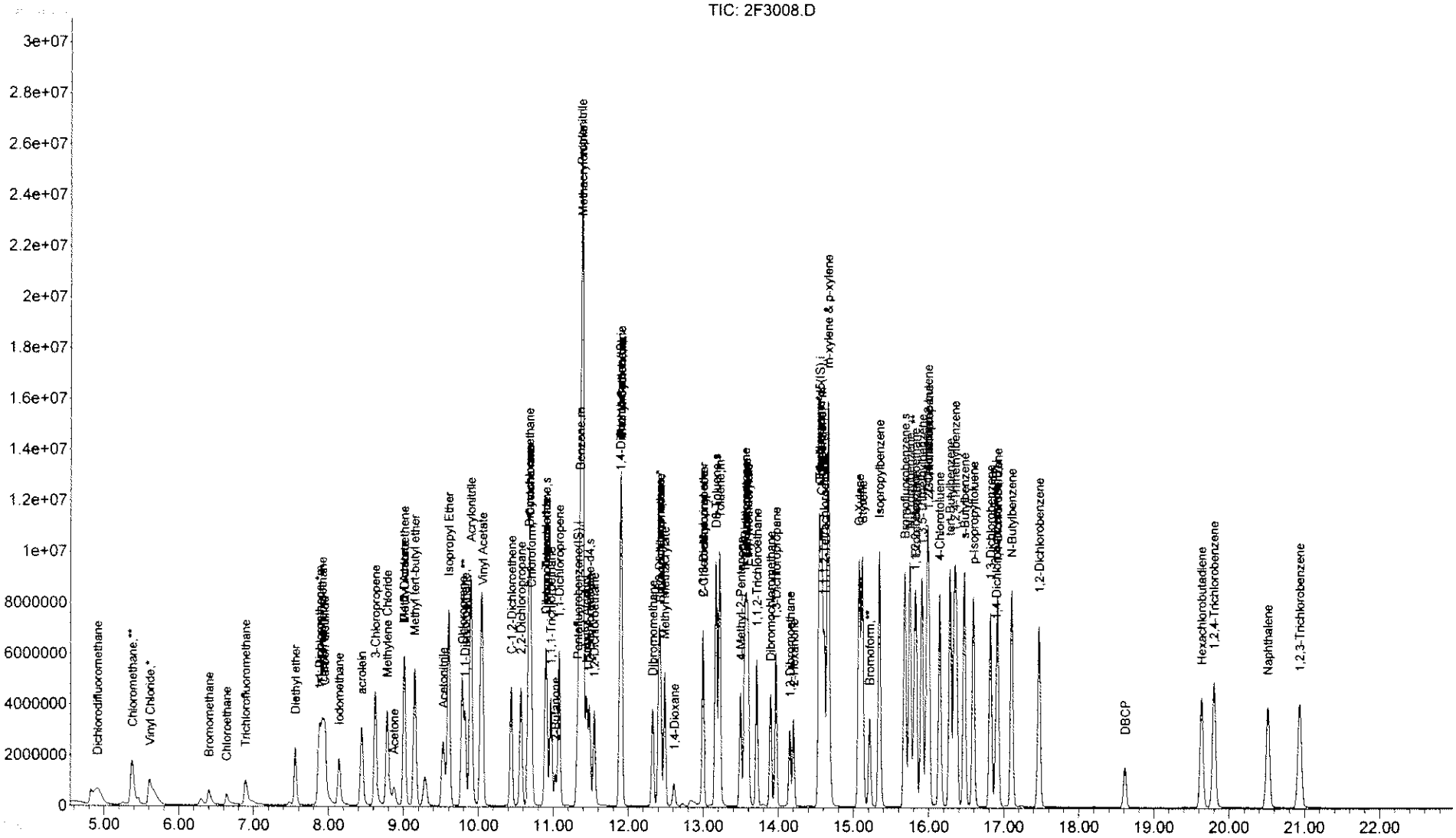
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.51	128	6335675	163.00 ug/kg	100
96)	1,2,4-Trichlorobenzene	19.80	180	3041329	201.30 ug/kg	90
97)	Hexachlorobutadiene	19.64	225	1671331	249.71 ug/kg	99
98)	1,2,3-Trichlorobenzene	20.94	180	2823519	205.67 ug/kg	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: S1306004.RES

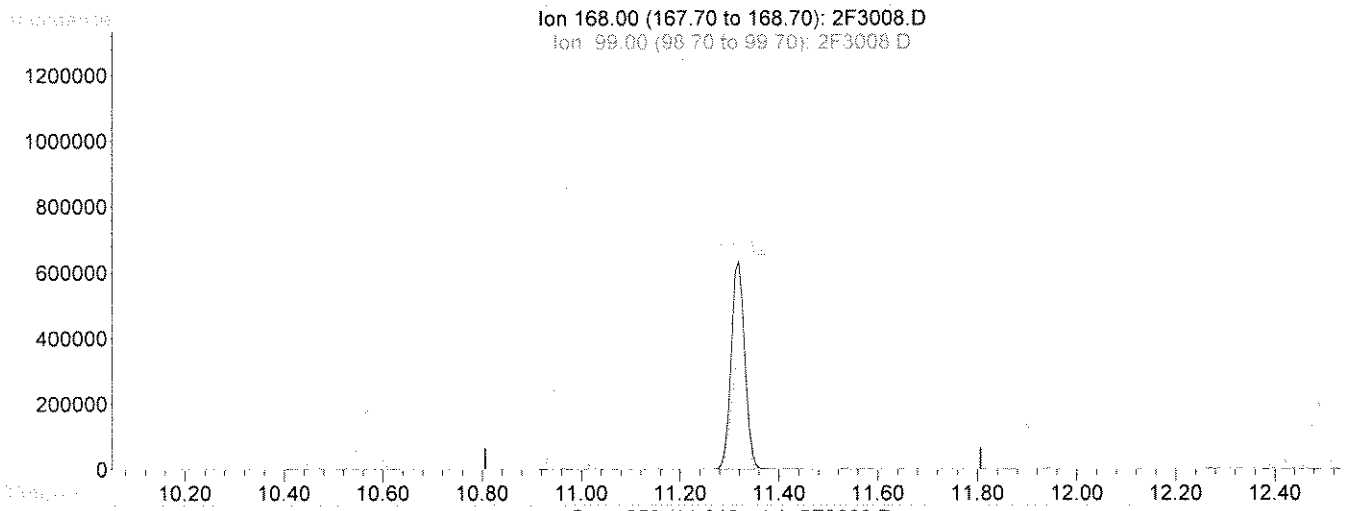
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

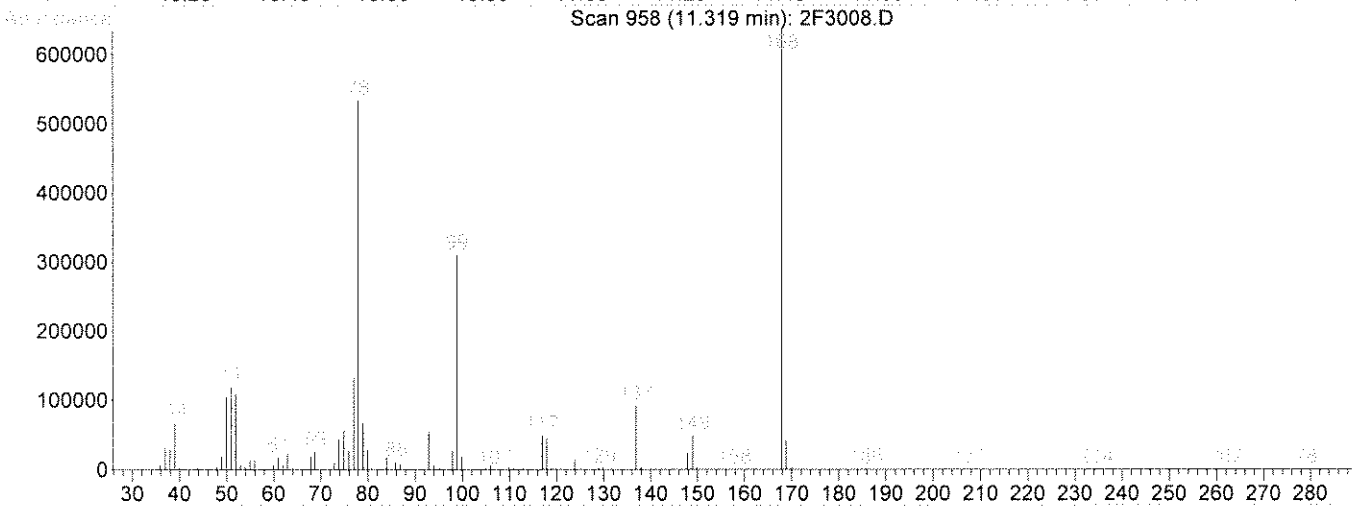


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 10:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Multiple Level Calibration





TIC: 2F3008.D

(1) Pentafluorobenzene(IS) (i)

11.32min 50.00ug/kg

response 1208381

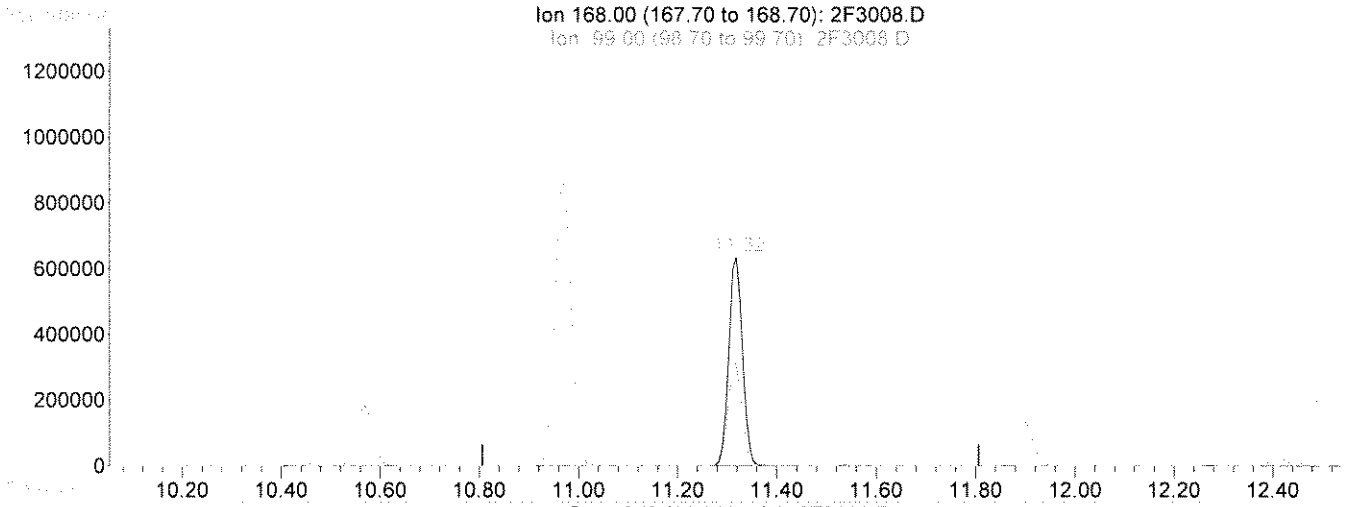
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	50.10
169.00	6.50	7.01
0.00	0.00	0.00

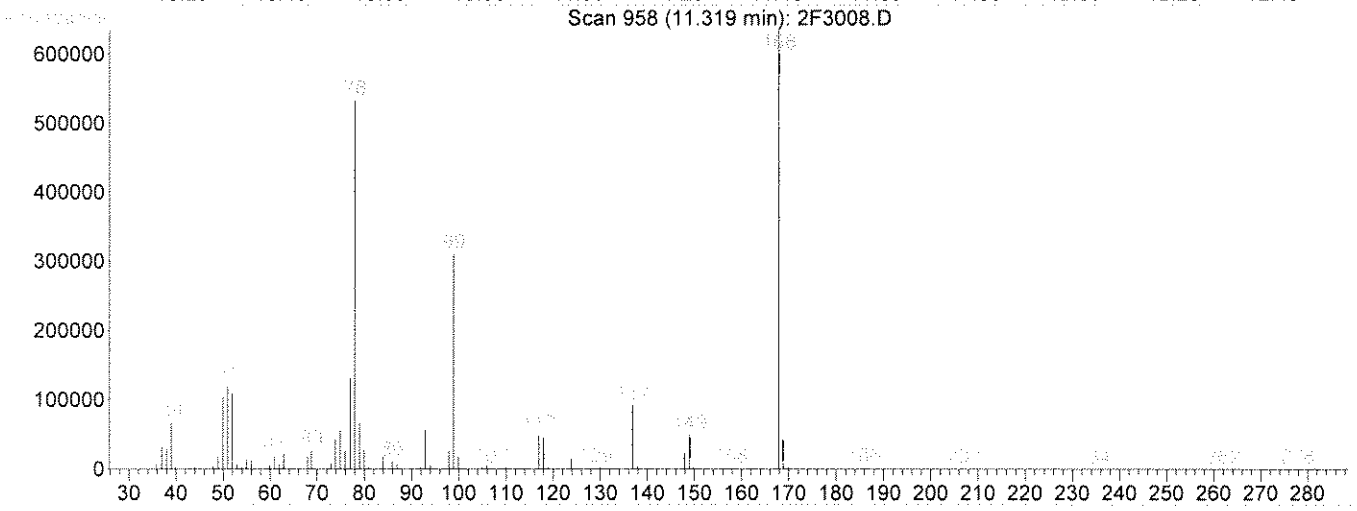
Select One:
[✓] Original Integration [] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date LET 060413
Review by/Date: 6-6-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration





TIC: 2F3008.D

(1) Pentafluorobenzene(IS) (i)

11.32min 50.00ug/kg m

response 1208805

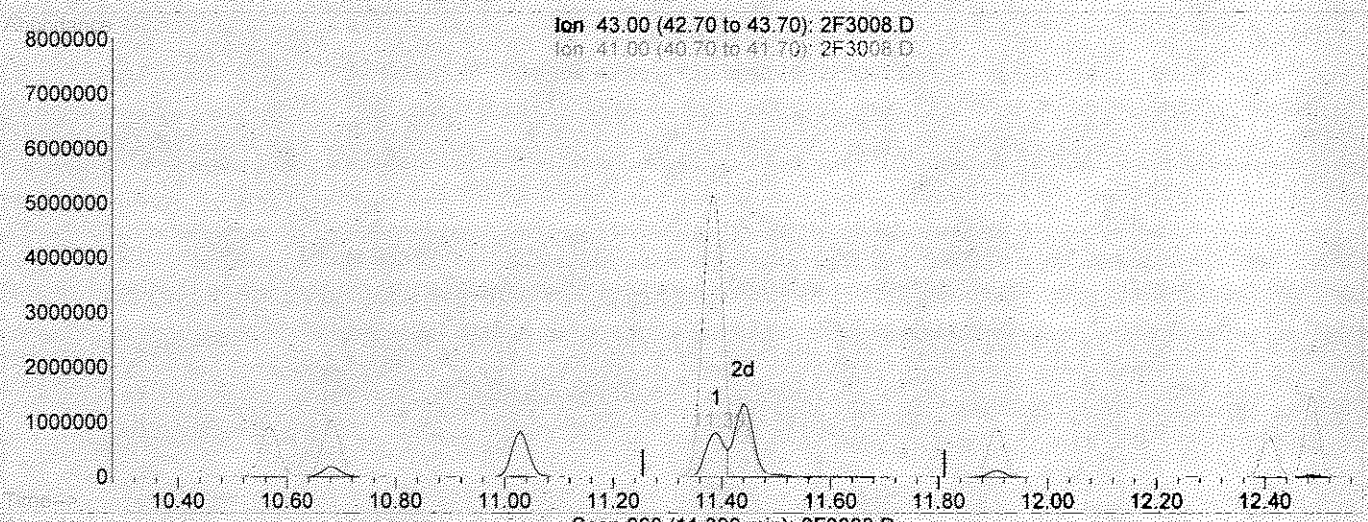
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	50.08
169.00	6.50	7.01
0.00	0.00	0.00

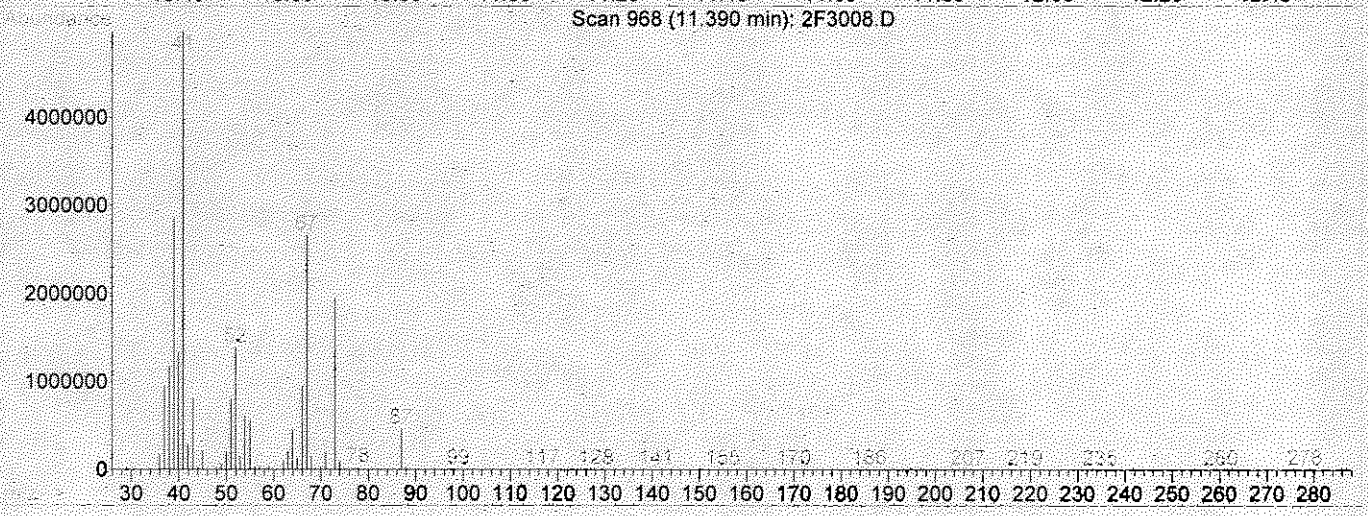
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date 6/4/13
Review by/Date: 6-6-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:01 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:45:25 2013
Response via : Multiple Level Calibration





(43) Isobutyl Alcohol

11.39min 1477.43ug/kg

response 1987909

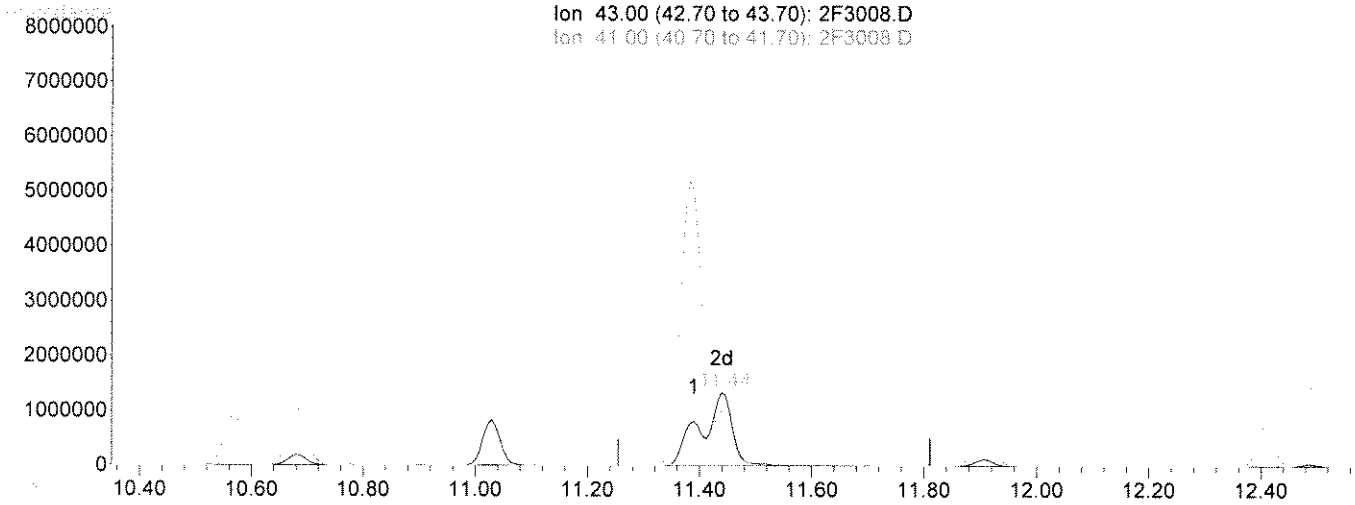
Ion	Exp%	Act%
43.00	100	100
41.00	86.60	693.79#
42.00	59.10	35.18#
0.00	0.00	0.00

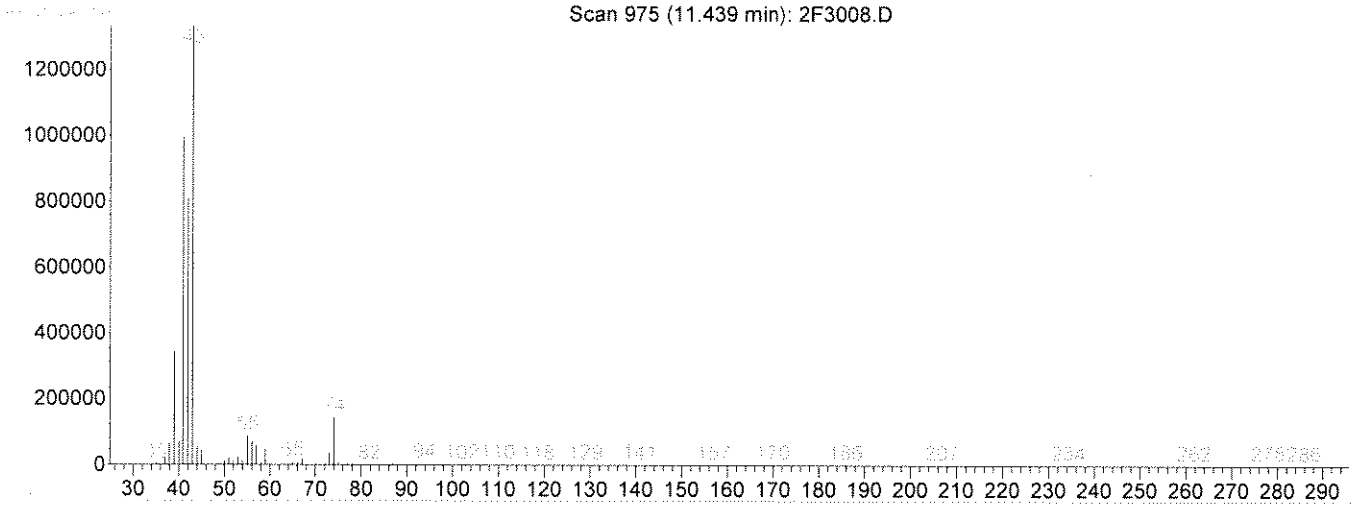
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KTOGoll3
Review by/Date: KAS 5-1-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3008.D

(43) Isobutyl Alcohol

11.44min 3851.83ug/kg m

response 5182719

Ion	Exp%	Act%
43.00	100	100
41.00	86.60	266.11#
42.00	59.10	13.49#
0.00	0.00	0.00

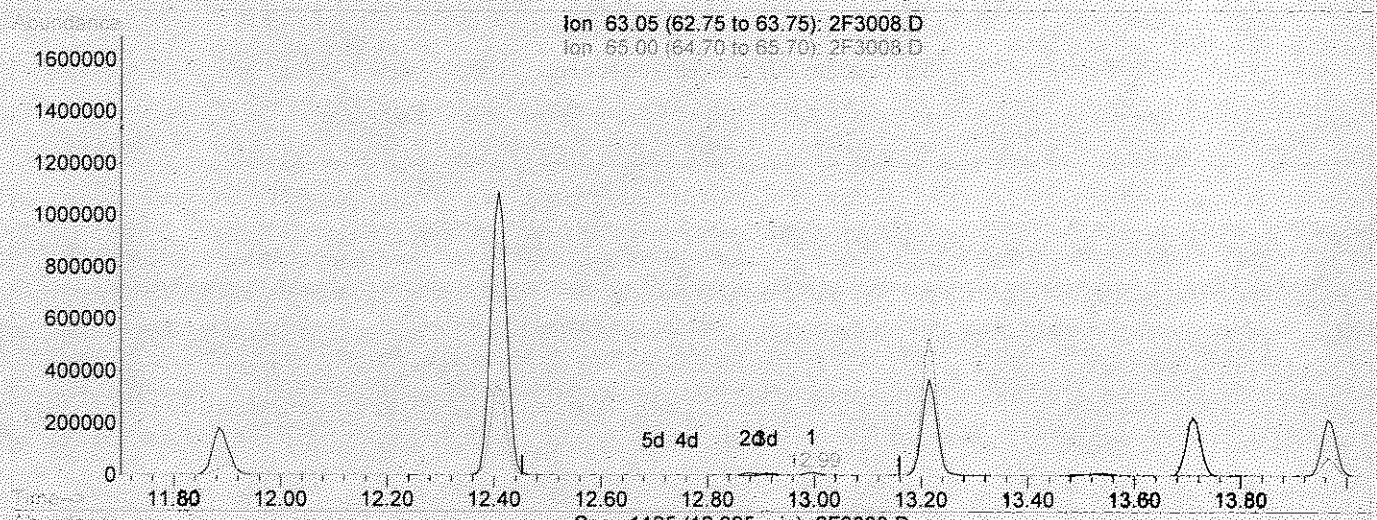
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[✓] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 6/4/13
Review by/Date: 6-5-13

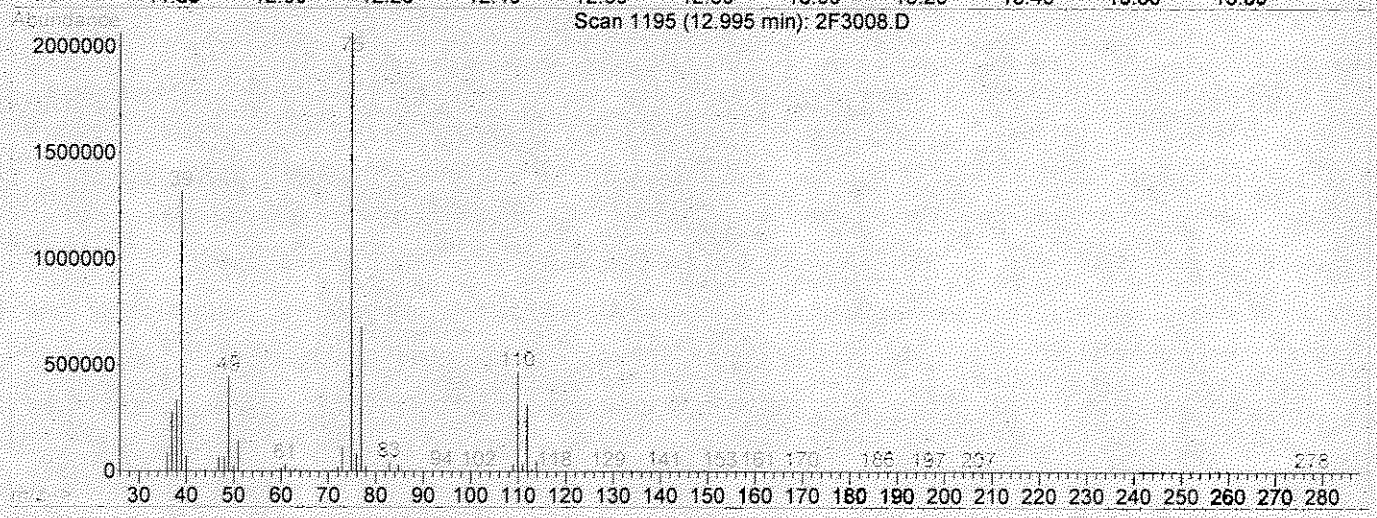
2F3008.D S1306004.M Tue Jun 04 13:43:35 2013

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:46 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 11:46:49 2013
Response via : Multiple Level Calibration





(53) 2-Chloroethyl vinyl ether

12.99min 132.40ug/kg

response 21704

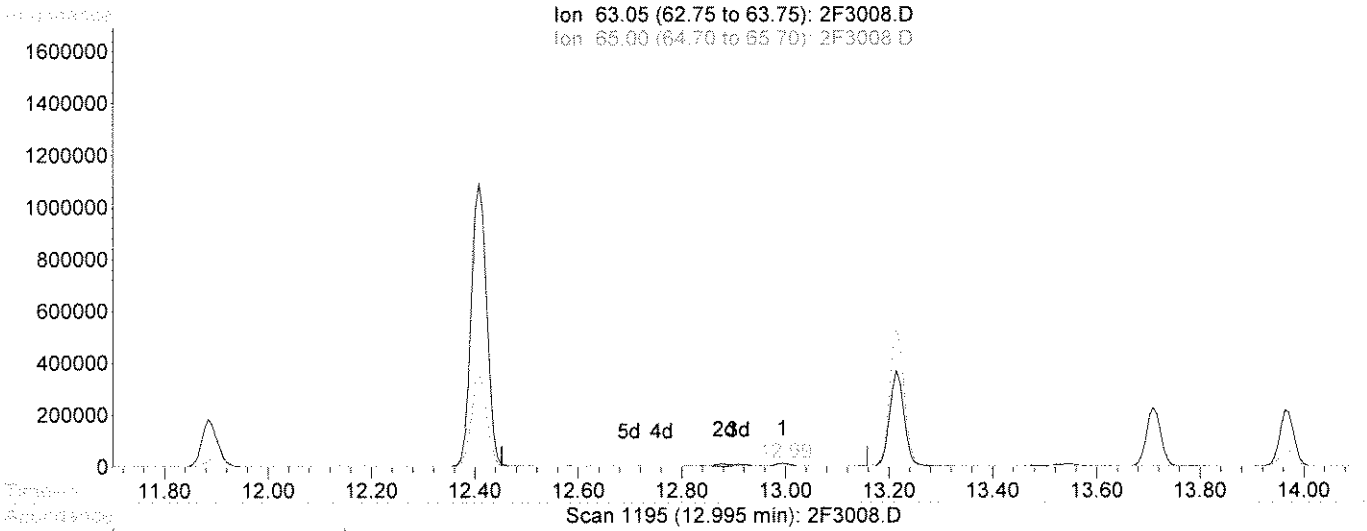
Ion	Exp%	Act%
63.05	100	100
65.00	34.80	15.59
106.05	26.70	1.52
0.00	0.00	0.00

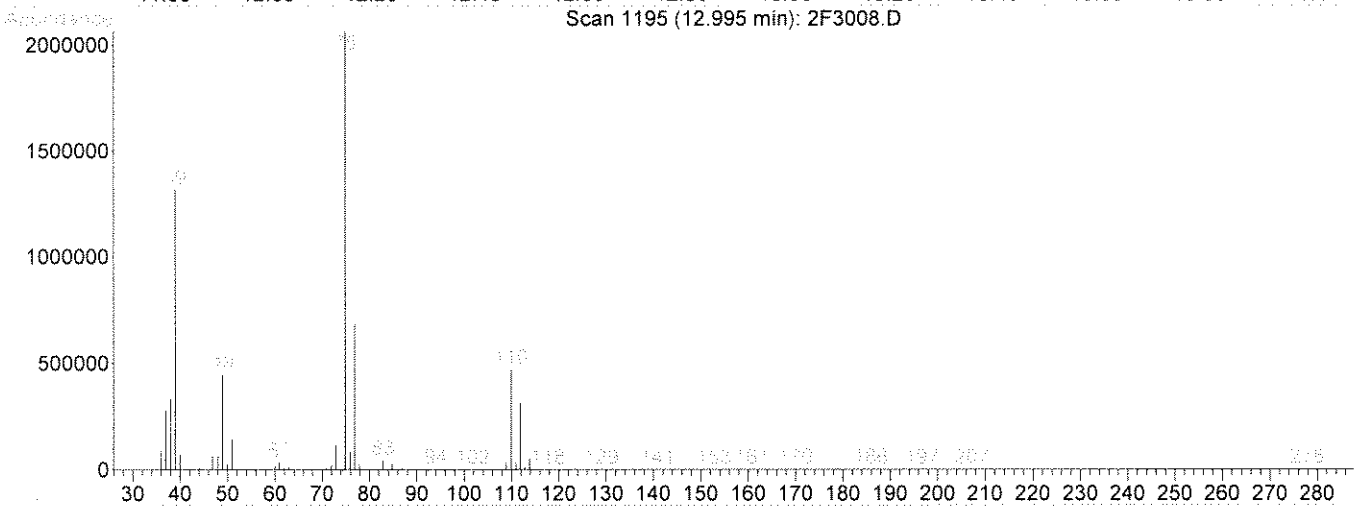
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 6/4/13
Review by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3008.D Vial: 8
Acq On : 3 Jun 2013 16:25 Operator: kat
Sample : 200 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:54 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





(53) 2-Chloroethyl vinyl ether

12.99min 246.37ug/kg m

response 40388

Ion	Exp%	Act%
63.05	100	100
65.00	34.80	8.38
106.05	26.70	0.82
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT060413.
Review by/Date: KB 6-5-13

2F3008.D S1306004.M Tue Jun 04 13:43:31 2013

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3009.D Vial: 9
Acq On : 3 Jun 2013 16:59 Operator: kat
Sample : 400 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:03 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 06/04/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.32	168	1200007	50.00	ug/kg	0.02
38) 1,4-Difluorobenzene(IS)	11.89	114	1825876	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1581660	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	790123	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	538014	34.41	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 68.82%#			
44) 1,2-Dichloroethane-d4	11.48	65	562690	34.20	ug/kg	0.02
Spiked Amount 50.000	Range 67 - 146		Recovery = 68.40%			
56) D8-Toluene	13.17	98	1738481	39.51	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 79.02%#			
77) Bromofluorobenzene	15.68	95	666568	34.09	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 68.18%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	d	
3) Chloromethane	0.00	50		N.D.	d	
4) Vinyl Chloride	0.00	62		N.D.	d	
5) Bromomethane	0.00	94		N.D.	d	
6) Chloroethane	0.00	64		N.D.	d	
7) Trichlorofluoromethane	0.00	101		N.D.	d	
8) Trichlorotrifluoroethane	0.00	101		N.D.	d	
9) acrolein	0.00	56		N.D.	d	
10) Acetone	8.87	43	2042115	262.28	ug/kg	96
11) 1,1-Dichloroethene	0.00	96		N.D.	d	
12) 3-Chloropropene	8.63	76	2517132	271.22	ug/kg	85
13) Acetonitrile	9.53	41	8431886	2802.09	ug/kg	93
14) Iodomethane	8.15	142	5926409	300.55	ug/kg	93
15) Carbon disulfide	7.96	76	11290937	311.34	ug/kg	100
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.	d	
18) Acrylonitrile	9.78	53	6871692	1128.21	ug/kg#	48
19) T-1,2-Dichloroethene	0.00	96		N.D.	d	
20) Isopropyl Ether	0.00	45		N.D.	d	
21) C-1,2-Dichloroethene	0.00	96		N.D.	d	
22) 1,1-Dichloroethane	0.00	63		N.D.	d	
23) Vinyl Acetate	10.06	43	12619508	222.06	ug/kg	99
24) Chloroprene	9.78	53	6871692	284.20	ug/kg	76
25) 2-Butanone	11.03	72	653466	311.15	ug/kg	97
26) Propionitrile	11.38	54	4951372	1899.03	ug/kg	100
27) 2,2-Dichloropropane	0.00	77		N.D.	d	
28) Methacrylonitrile	11.39	67	11966715	1894.61	ug/kg#	64
29) Chloroform	0.00	83		N.D.	d	
31) Dibromofluoromethane	10.90	113	538014	34.41	ug/kg	100
32) Bromochloromethane	0.00	128		N.D.	d	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	d	
34) 1,1-Dichloropropene	0.00	75		N.D.	d	
35) Diethyl ether	0.00	59		N.D.	d	
36) Methyl Acetate	0.00	74		N.D.	d	
37) Cyclohexane	0.00	56		N.D.	d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3009.D Vial: 9
Acq On : 3 Jun 2013 16:59 Operator: kat
Sample : 400 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:03 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D. d	
41) 1,2-Dichloroethane	0.00	62		N.D. d	
42) Benzene	0.00	78		N.D. d	
43) Isobutyl Alcohol	11.43	43	5874221	3729.55 ug/kg#	1
45) 1,2-Dichloroethane-d4	11.48	65	562690	34.20 ug/kg#	41
46) Trichloroethene	0.00	130		N.D. d	
47) 1,2-Dichloropropane	0.00	63		N.D. d	
48) Methyl Methacrylate	12.49	100	1451725	292.97 ug/kg#	1
49) 1,4-Dioxane	12.61	88	1413253	7441.25 ug/kg#	64
50) Bromodichloromethane	0.00	83		N.D. d	
51) Dibromomethane	0.00	93		N.D. d	
52) 4-Methyl-2-Pentanone	13.49	100	775521	300.64 ug/kg	96
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	14.20	43	4811463	258.55 ug/kg	96
55) C-1,3-Dichloropropene	0.00	75		N.D. d	
57) D8-Toluene	13.17	98	1738481	39.51 ug/kg	100
59) Toluene	0.00	92		N.D. d	
60) Ethyl Methacrylate	13.60	69	5903899	274.24 ug/kg	76
61) T-1,3-Dichloropropene	0.00	75		N.D. d	
62) 1,1,2-Trichloroethane	0.00	97		N.D. d	
63) 1,3-Dichloropropane	0.00	76		N.D. d	
64) Tetrachloroethene	0.00	164		N.D. d	
65) Dibromochloromethane	0.00	129		N.D. d	
66) 1,2-Dibromoethane	0.00	107		N.D. d	
67) Chlorobenzene	0.00	112		N.D. d	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D. d	
69) Ethylbenzene	0.00	106		N.D. d	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D. d	
72) Bromoform	0.00	173		N.D. d	
73) Styrene	0.00	104		N.D. d	
74) Isopropylbenzene	0.00	105		N.D. d	
75) 1,2,3-Trichloropropane	0.00	75		N.D. d	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D. d	
78) Bromofluorobenzene	15.68	95	666568	34.09 ug/kg#	1
79) T-1,4-dichloro-2-butene	16.00	53	1905323	309.82 ug/kg#	21
80) N-Propylbenzene	0.00	91		N.D. d	
82) Bromobenzene	0.00	156		N.D. d	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D. d	
84) 2-Chlorotoluene	0.00	91		N.D. d	
85) 4-Chlorotoluene	0.00	91		N.D. d	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
87) s-Butylbenzene	0.00	105		N.D. d	
88) tert-Butylbenzene	0.00	119		N.D. d	
89) p-Isopropyltoluene	0.00	119		N.D. d	
90) 1,3-Dichlorobenzene	0.00	146		N.D. d	
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) 1,2-Dichlorobenzene	0.00	146		N.D. d	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3009.D Vial: 9
Acq On : 3 Jun 2013 16:59 Operator: kat
Sample : 400 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:03 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jan 15 15:31:01 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	0.00	128		N.D. d	
96)	1,2,4-Trichlorobenzene	0.00	180		N.D. d	
97)	Hexachlorobutadiene	0.00	225		N.D. d	
98)	1,2,3-Trichlorobenzene	0.00	180		N.D. d	

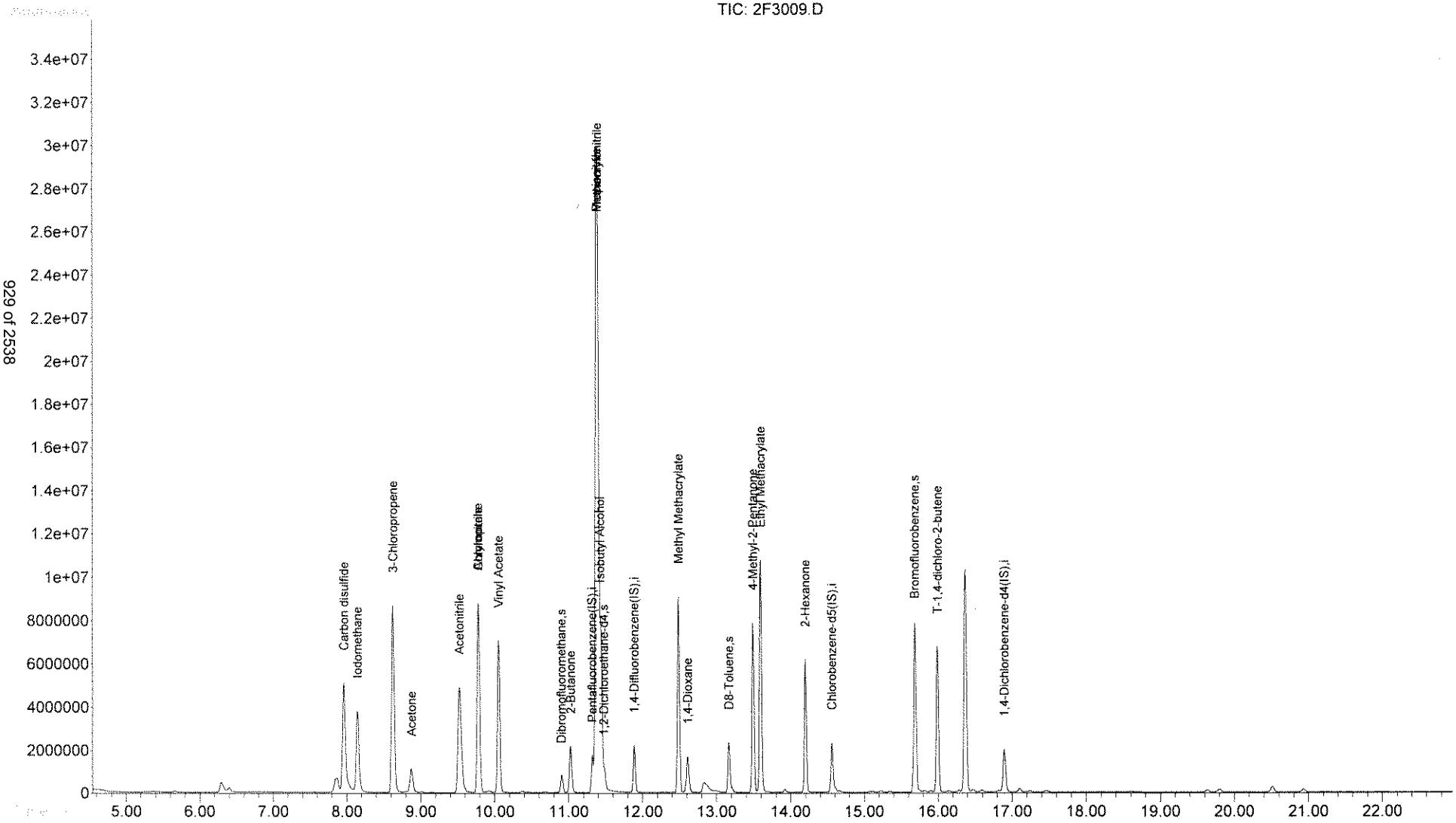
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3009.D Vial: 9
Acq On : 3 Jun 2013 16:59 Operator: kat
Sample : 400 ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 11:03 2013 Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration

TIC: 2F3009.D



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Multiple Level Calibration

KTD60413

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	89	0.00
2		Dichlorodifluoromethane	0.682	0.623	8.7	75	3.10#
3	**	Chloromethane	0.797	0.717	10.0	81	0.00
4	*	Vinyl Chloride	0.744	0.650	12.6	74	0.00
5		Bromomethane	0.277	0.273	1.4	101	0.00
6		Chloroethane	0.297	0.247	16.8	94	0.00
7		Trichlorofluoromethane	0.637	0.599	6.0	83	0.00
8		Trichlorotrifluoroethane	0.385	0.382	0.8	87	0.00
9		acrolein	0.088	0.040#	54.5#	43#	0.00
10		Acetone	0.259	0.586	-126.3#	200	0.00
11	*m	1,1-Dichloroethene	0.319	0.326	-2.2	95	0.00
12		3-Chloropropene	0.299	0.279	6.7	85	0.00
13		Acetonitrile	0.093	0.010#	89.2#	9#	0.00
14		Iodomethane	0.681	0.652	4.3	86	0.00
15		Carbon disulfide	1.395	1.368	1.9	93	0.00
16		Methylene Chloride	0.576	0.533	7.5	82	0.00
17		Methyl tert-butyl ether	1.565	1.536	1.9	87	0.00
18		Acrylonitrile	0.237	0.025#	89.5#	10#	0.00
19		T-1,2-Dichloroethene	0.531	0.493	7.2	82	0.00
20		Isopropyl Ether	2.187	2.092	4.3	87	0.00
21		C-1,2-Dichloroethene	0.558	0.530	5.0	83	0.00
22	**	1,1-Dichloroethane	0.981	0.969	1.2	89	0.00
23		Vinyl Acetate	1.808	1.970	-9.0	103	0.00
24		Chloroprene	0.782	0.861	-10.1	94	0.00
25		2-Butanone	0.076	0.189	-148.7#	224#	0.00
26		Propionitrile	0.092	0.010#	89.1#	11#	0.00
27		2,2-Dichloropropane	0.743	0.733	1.3	87	0.00
28		Methacrylonitrile	0.229	0.024#	89.5#	10#	0.00
29	*	Chloroform	0.884	0.870	1.6	88	0.00
30	s	Dibromofluoromethane	0.527	0.231	56.2#	36#	0.00
31		Dibromofluoromethane	0.527	0.231	56.2#	36#	0.00
32		Bromochloromethane	0.299	0.281	6.0	88	0.00
33		1,1,1-Trichloroethane	0.666	0.677	-1.7	87	0.00
34		1,1-Dichloropropene	0.718	0.671	6.5	82	0.00
35		Diethyl ether	0.375	0.394	-5.1	93	0.00
36		Methyl Acetate	0.112	0.128	-14.3	103	0.00
37		Cyclohexane	0.919	0.835	9.1	80	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	90	0.00
39		Methyl Cyclohexane	0.575	0.508	11.7	81	0.00
40		Carbon Tetrachloride	0.405	0.419	-3.5	86	0.00
41		1,2-Dichloroethane	0.505	0.518	-2.6	88	0.00
42	m	Benzene	1.297	1.280	1.3	92	0.00
43		Isobutyl Alcohol	0.045	0.002#	95.6#	4#	-0.01
44	s	1,2-Dichloroethane-d4	0.415	0.193	53.5#	38#	0.00
45		1,2-Dichloroethane-d4	0.415	0.193	53.5#	38#	0.00
46	m	Trichloroethene	0.358	0.345	3.6	84	0.00
47	*	1,2-Dichloropropane	0.384	0.372	3.1	85	0.00
48		Methyl Methacrylate	0.121	0.131	-8.3	92	0.00
49		1,4-Dioxane	0.006	0.000#	100.0#	4#	0.00
50		Bromodichloromethane	0.478	0.498	-4.2	87	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.253	0.253	0.0	86	0.00
52		4-Methyl-2-Pentanone	0.068	0.169	-148.5#	228#	0.00
53		2-Chloroethyl vinyl ether	0.009	0.009#	0.0	99	0.00
54		2-Hexanone	0.415	1.049	-152.8#	220#	0.00
55		C-1,3-Dichloropropene	0.648	0.622	4.0	81	0.00
56	s	D8-Toluene	1.169	0.546	53.3#	40#	0.00
57		D8-Toluene	1.169	0.546	53.3#	40#	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	88	0.00
59	m*	Toluene	0.935	0.959	-2.6	85	0.00
60		Ethyl Methacrylate	0.630	0.654	-3.8	96	0.00
61		T-1,3-Dichloropropene	0.622	0.688	-10.6	87	0.00
62		1,1,2-Trichloroethane	0.361	0.374	-3.6	82	0.00
63		1,3-Dichloropropane	0.680	0.694	-2.1	81	0.00
64		Tetrachloroethene	0.325	0.338	-4.0	87	0.00
65		Dibromochloromethane	0.475	0.505	-6.3	79	0.00
66		1,2-Dibromoethane	0.427	0.451	-5.6	83	0.00
67	**m	Chlorobenzene	1.083	1.025	5.4	79	0.00
68		1,1,1,2-Tetrachloroethane	0.404	0.409	-1.2	79	0.00
69	*	Ethylbenzene	0.514	0.524	-1.9	83	0.00
70		m-xylene & p-xylene	0.647	0.635	1.9	82	0.00
71		O-Xylene	0.677	0.654	3.4	78	0.00
72	**	Bromoform	0.369	0.374	-1.4	69	0.00
73		Styrene	1.054	1.141	-8.3	80	0.00
74		Isopropylbenzene	1.681	1.652	1.7	79	0.00
75		1,2,3-Trichloropropane	0.669	0.669	0.0	78	0.00
76	**	1,1,2,2-Tetrachloroethane	0.571	0.553	3.2	72	0.00
77	s	Bromofluorobenzene	0.557	0.263	52.8#	39#	0.00
78		Bromofluorobenzene	0.557	0.263	52.8#	39#	0.00
79		T-1,4-dichloro-2-butene	0.175	0.181	-3.4	94	0.00
80		N-Propylbenzene	1.994	2.037	-2.2	84	0.00
81	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	96	0.00
82		Bromobenzene	0.983	0.897	8.7	79	0.00
83		1,3,5-Trimethylbenzene	2.666	2.442	8.4	80	0.00
84		2-Chlorotoluene	2.602	2.241	13.9	76	0.00
85		4-Chlorotoluene	2.635	2.359	10.5	78	0.00
86		1,2,4-Trimethylbenzene	2.571	2.386	7.2	80	0.00
87		s-Butylbenzene	3.570	3.227	9.6	78	0.00
88		tert-Butylbenzene	2.449	2.197	10.3	78	0.00
89		p-Isopropyltoluene	2.568	2.673	-4.1	87	0.00
90		1,3-Dichlorobenzene	1.801	1.573	12.7	78	0.00
91		1,4-Dichlorobenzene	1.745	1.555	10.9	79	0.00
92		1,2-Dichlorobenzene	1.731	1.531	11.6	74	0.00
93		N-Butylbenzene	2.543	2.431	4.4	81	0.00
94		DBCP	0.224	0.219	2.2	79	0.00
95		Naphthalene	2.264	2.183	3.6	79	0.00
96		1,2,4-Trichlorobenzene	1.105	1.030	6.8	80	0.00
97		Hexachlorobutadiene	0.584	0.560	4.1	83	0.00
98		1,2,3-Trichlorobenzene	1.000	0.965	3.5	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:19 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG060413

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1104114m	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1543186m	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1324729	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	716950	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	509014	43.72	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 87.44%			
44) 1,2-Dichloroethane-d4	11.48	65	594722	46.40	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 92.80%			
56) D8-Toluene	13.17	98	1685614	46.71	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 93.42%			
77) Bromofluorobenzene	15.67	95	696805	47.18	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 94.36%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	7.93	85	1376744	91.46	ug/kg	92
3) Chloromethane	5.38	50	1584282	90.04	ug/kg	100
4) Vinyl Chloride	5.61	62	1434993	87.36	ug/kg	96
5) Bromomethane	6.40	94	603352	98.78	ug/kg	93
6) Chloroethane	6.64	64	545709	83.22	ug/kg	94
7) Trichlorofluoromethane	6.93	101	1322792	94.00	ug/kg	99
8) Trichlorotrifluoroethane	7.93	101	844383	99.40	ug/kg	95
9) acrolein	8.43	56	880455	451.73	ug/kg	100
10) Acetone	8.86	43	1293066	226.41	ug/kg	98
11) 1,1-Dichloroethene	7.89	96	719062	102.18	ug/kg	98
12) 3-Chloropropene	8.63	76	615406	93.28	ug/kg	90
13) Acetonitrile	9.51	41	216405	104.83	ug/kg	89
14) Iodomethane	8.15	142	1439066	95.75	ug/kg	93
15) Carbon disulfide	7.97	76	3021695	98.08	ug/kg	99
16) Methylene Chloride	8.79	84	1176691	92.47	ug/kg	92
17) Methyl tert-butyl ether	9.14	73	3391764	98.13	ug/kg	97
18) Acrylonitrile	9.88	53	562796	107.38	ug/kg	95
19) T-1,2-Dichloroethene	9.01	96	1088484	92.86	ug/kg	97
20) Isopropyl Ether	9.59	45	4618686	95.66	ug/kg	98
21) C-1,2-Dichloroethene	10.44	96	1169937	94.93	ug/kg	93
22) 1,1-Dichloroethane	9.82	63	2139907	98.76	ug/kg	98
23) Vinyl Acetate	10.05	43	4351188	108.96	ug/kg	93
24) Chloroprene	9.78	53	1902226	110.16	ug/kg	79
25) 2-Butanone	11.02	72	416484	248.03	ug/kg	99
26) Propionitrile	11.35	54	221936	109.33	ug/kg	100
27) 2,2-Dichloropropane	10.56	77	1619711	98.68	ug/kg	99
28) Methacrylonitrile	11.37	67	522597	103.32	ug/kg	76
29) Chloroform	10.70	83	1922056	98.41	ug/kg	92
31) Dibromofluoromethane	10.90	113	509014	43.72	ug/kg	100
32) Bromochloromethane	10.66	128	619993	93.97	ug/kg	80
33) 1,1,1-Trichloroethane	10.97	97	1494101	101.65	ug/kg#	97
34) 1,1-Dichloropropene	11.08	75	1481164	93.43	ug/kg	92
35) Diethyl ether	7.54	59	870605	105.10	ug/kg	96
36) Methyl Acetate	9.00	74	282666	114.13	ug/kg	89
37) Cyclohexane	10.68	56	1844826	90.87	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:19 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.91	55	1568691	88.32 ug/kg#	83
40) Carbon Tetrachloride	10.90	117	1291891	103.34 ug/kg	97
41) 1,2-Dichloroethane	11.54	62	1599415	102.54 ug/kg	95
42) Benzene	11.34	78	3951869	98.72 ug/kg	92
43) Isobutyl Alcohol	11.40	43	121186	87.00 ug/kg	63
45) 1,2-Dichloroethane-d4	11.48	65	594722	46.40 ug/kg	93
46) Trichloroethene	11.89	130	1066192	96.55 ug/kg	94
47) 1,2-Dichloropropane	12.40	63	1149192	96.85 ug/kg	85
48) Methyl Methacrylate	12.48	100	403287	108.19 ug/kg#	1
49) 1,4-Dioxane	12.61	88	16823	94.75 ug/kg	91
50) Bromodichloromethane	12.43	83	1536667	104.08 ug/kg#	100
51) Dibromomethane	12.32	93	781900	100.03 ug/kg	81
52) 4-Methyl-2-Pentanone	13.49	100	521618	249.94 ug/kg	95
53) 2-Chloroethyl vinyl ether	12.99	63	28655	105.70 ug/kg	55
54) 2-Hexanone	14.20	43	3237126	252.96 ug/kg	97
55) C-1,3-Dichloropropene	12.99	75	1919903	96.00 ug/kg	79
57) D8-Toluene	13.17	98	1685614	46.71 ug/kg	98
59) Toluene	13.21	92	2541011	102.53 ug/kg	98
60) Ethyl Methacrylate	13.59	69	1731478	103.67 ug/kg	75
61) T-1,3-Dichloropropene	13.55	75	1823496	110.67 ug/kg	78
62) 1,1,2-Trichloroethane	13.71	97	990053	103.43 ug/kg	97
63) 1,3-Dichloropropane	13.96	76	1839564	102.16 ug/kg	98
64) Tetrachloroethene	13.57	164	896079	104.19 ug/kg	89
65) Dibromochloromethane	13.89	129	1337054	106.33 ug/kg	95
66) 1,2-Dibromoethane	14.15	107	1195238	105.54 ug/kg	95
67) Chlorobenzene	14.57	112	2714439	94.56 ug/kg	91
68) 1,1,1,2-Tetrachloroethane	14.61	131	1084921	101.30 ug/kg	89
69) Ethylbenzene	14.54	106	1389002	101.96 ug/kg	100
70) m-xylene & p-xylene	14.66	106	3362487	196.26 ug/kg	83
71) O-Xylene	15.07	106	1733225	96.66 ug/kg	97
72) Bromoform	15.21	173	990917	101.27 ug/kg	92
73) Styrene	15.11	104	3024156	108.33 ug/kg	89
74) Isopropylbenzene	15.34	105	4376387	98.27 ug/kg	98
75) 1,2,3-Trichloropropane	15.99	75	1773419	99.98 ug/kg	98
76) 1,1,2,2-Tetrachloroethane	15.80	83	1466338	96.93 ug/kg	98
78) Bromofluorobenzene	15.67	95	696805	47.18 ug/kg#	33
79) T-1,4-dichloro-2-butene	15.99	53	480675	103.77 ug/kg#	72
80) N-Propylbenzene	15.75	91	5398136	102.15 ug/kg	95
82) Bromobenzene	15.82	156	1286205	91.25 ug/kg	81
83) 1,3,5-Trimethylbenzene	15.90	105	3502170	91.62 ug/kg	90
84) 2-Chlorotoluene	15.97	91	3213469	86.12 ug/kg	96
85) 4-Chlorotoluene	16.14	91	3382612	89.54 ug/kg	93
86) 1,2,4-Trimethylbenzene	16.33	105	3420962	92.78 ug/kg	94
87) s-Butylbenzene	16.47	105	4627143	90.40 ug/kg	92
88) tert-Butylbenzene	16.28	119	3150835	89.72 ug/kg	96
89) p-Isopropyltoluene	16.59	119	3833221	104.11 ug/kg	97
90) 1,3-Dichlorobenzene	16.81	146	2255511	87.32 ug/kg	92
91) 1,4-Dichlorobenzene	16.91	146	2229136	89.10 ug/kg	95
92) 1,2-Dichlorobenzene	17.46	146	2195314	88.44 ug/kg	96
93) N-Butylbenzene	17.10	91	3486286	95.62 ug/kg	94
94) DBCP	18.60	75	314481	98.06 ug/kg	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:19 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

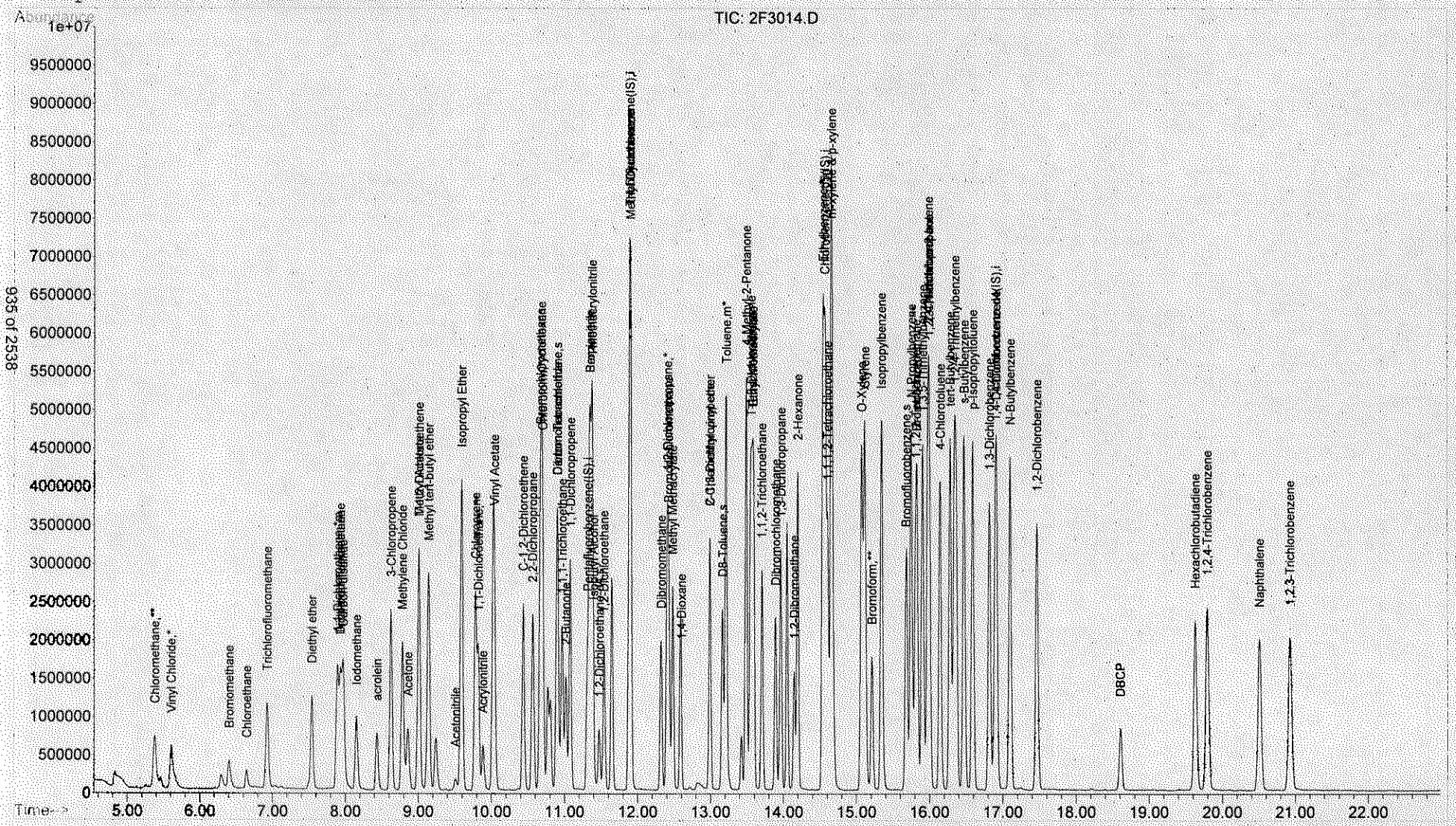
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.51	128	3129518	96.42 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.79	180	1477380	93.23 ug/kg	90
97) Hexachlorobutadiene	19.63	225	803259	95.97 ug/kg	98
98) 1,2,3-Trichlorobenzene	20.92	180	1383294	96.44 ug/kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:19 2013 Quant Results File: S1306004.RES

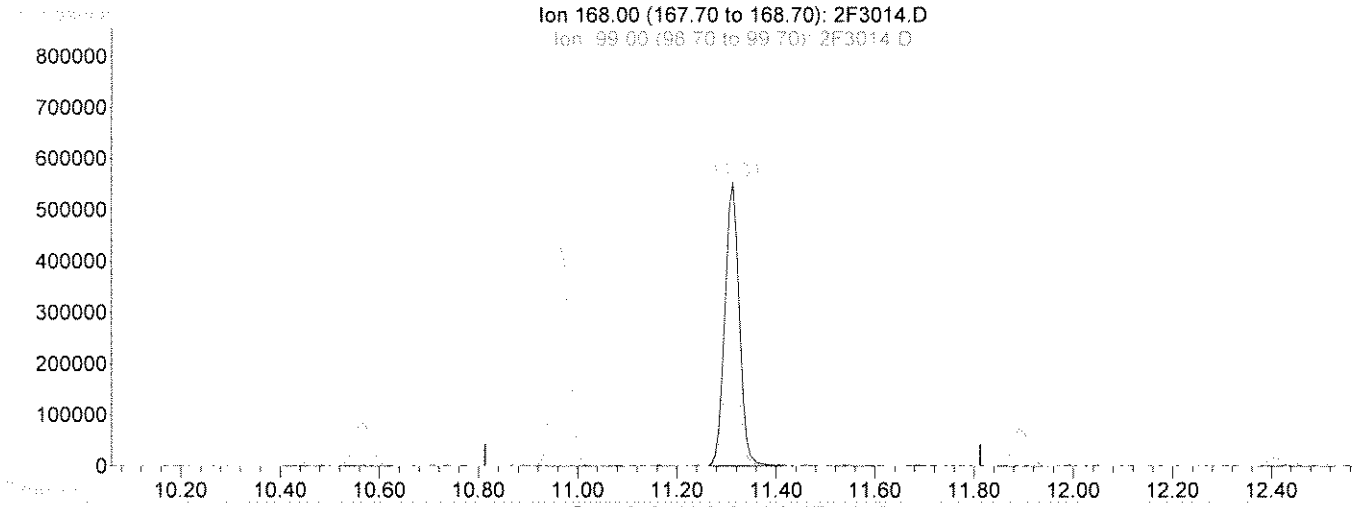
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Initial Calibration

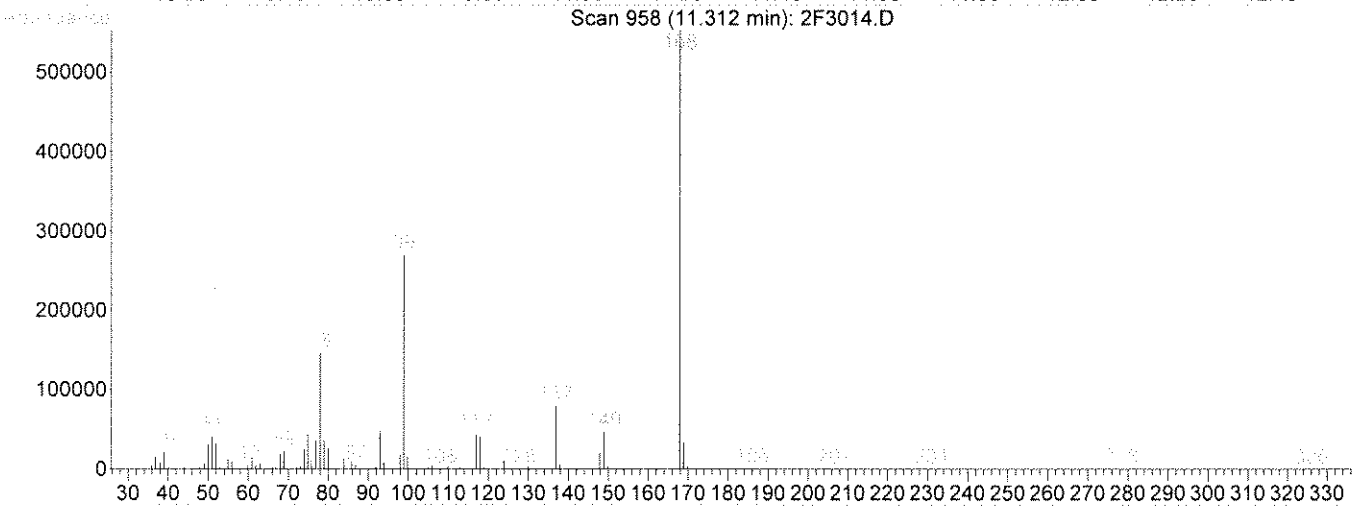


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:16 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3014.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg

response 1107899

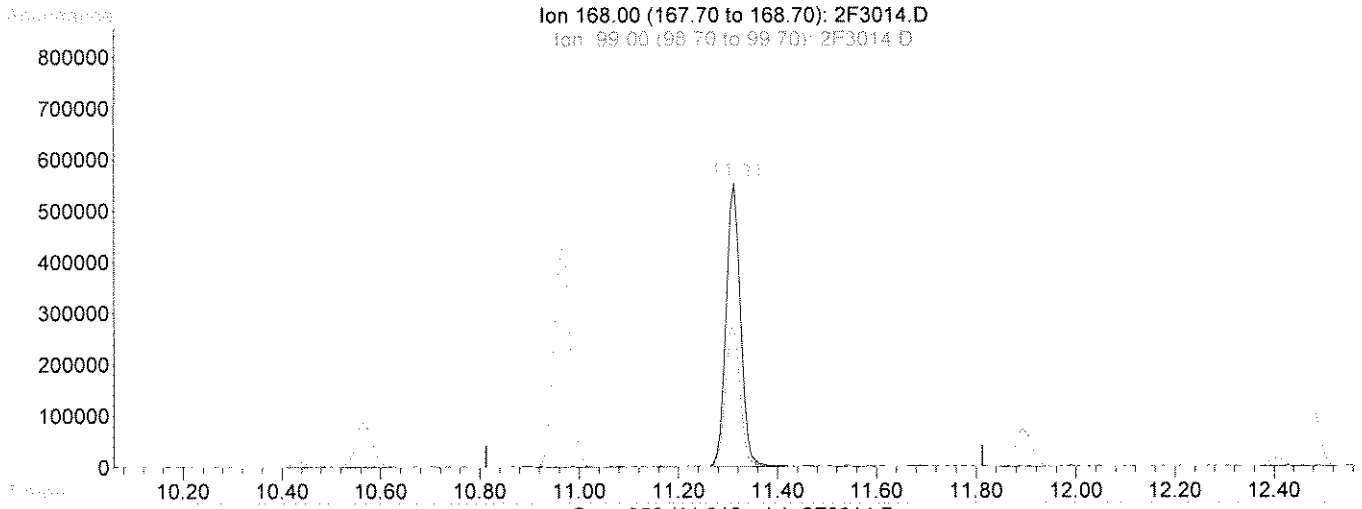
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	51.01
169.00	6.50	6.39
0.00	0.00	0.00

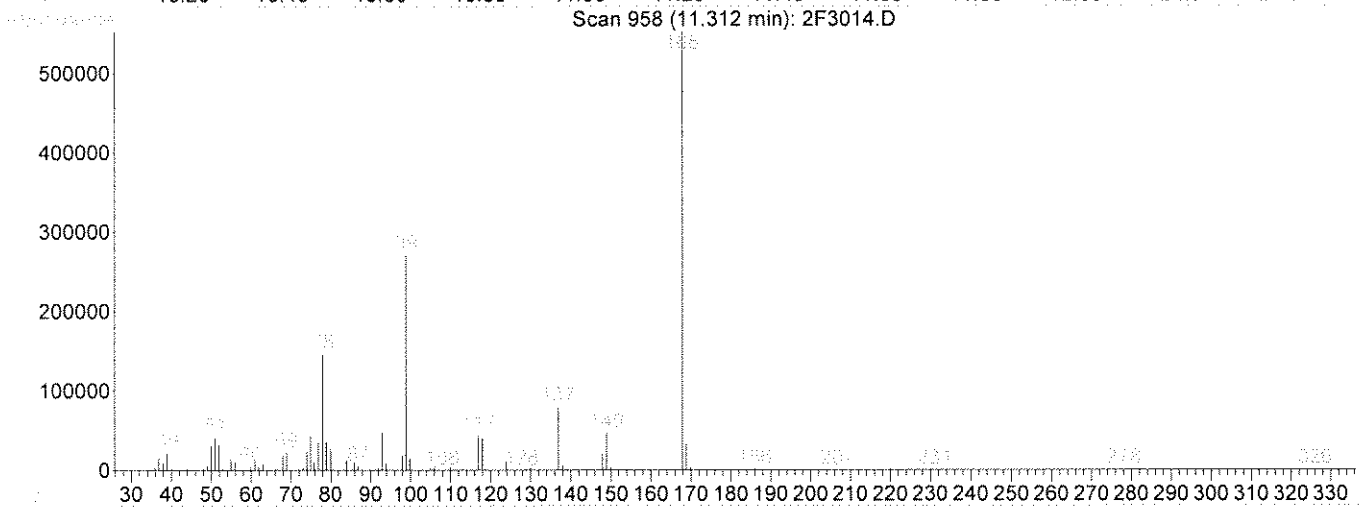
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KTDE 6/4/13
Review by/Date: KS 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:16 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F3014.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg m

response 1104114

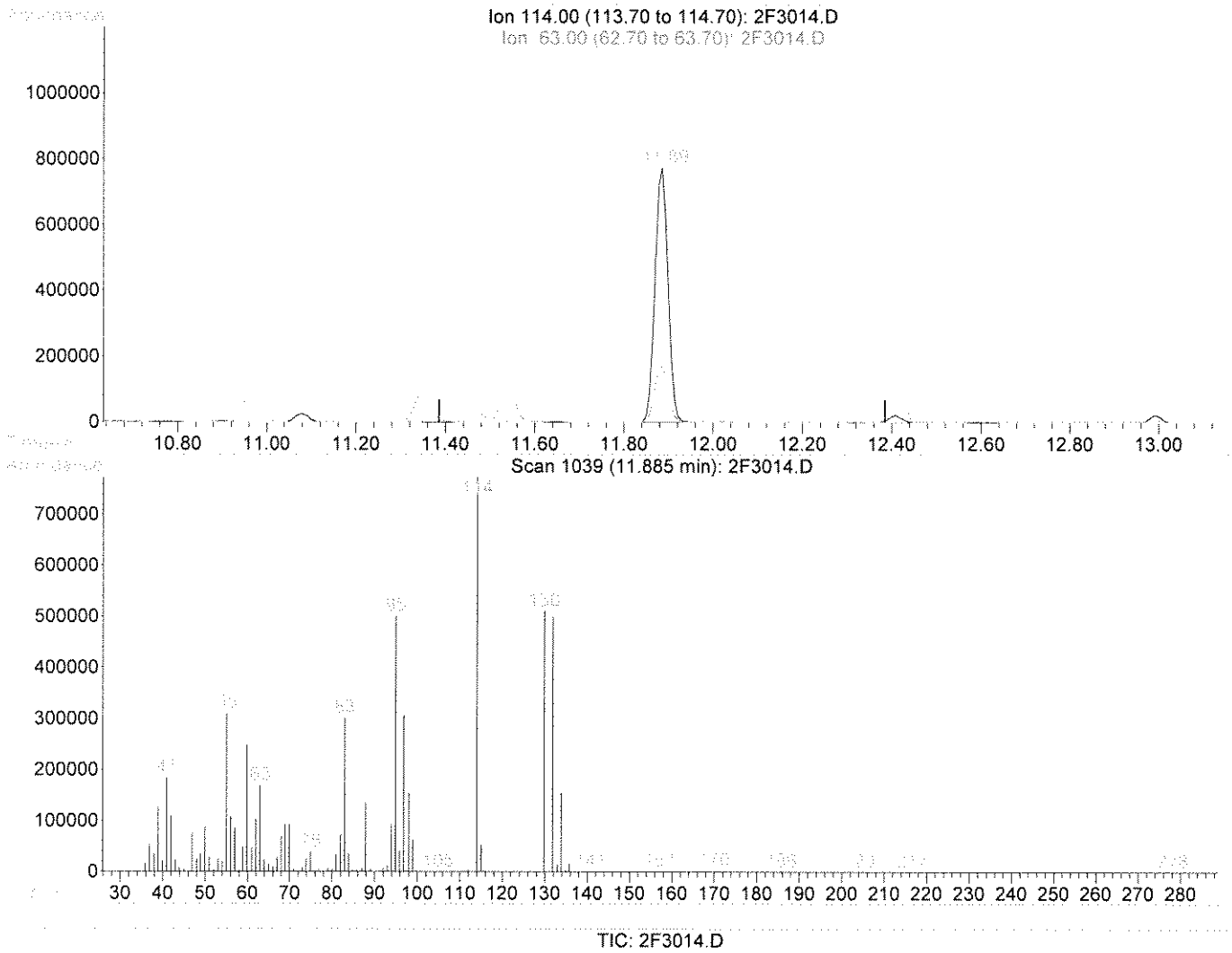
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	51.19
169.00	6.50	6.41
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[✓] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date: 6/6/2013
Review by/Date: 6/6/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:18 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration



(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/kg

response 1551934

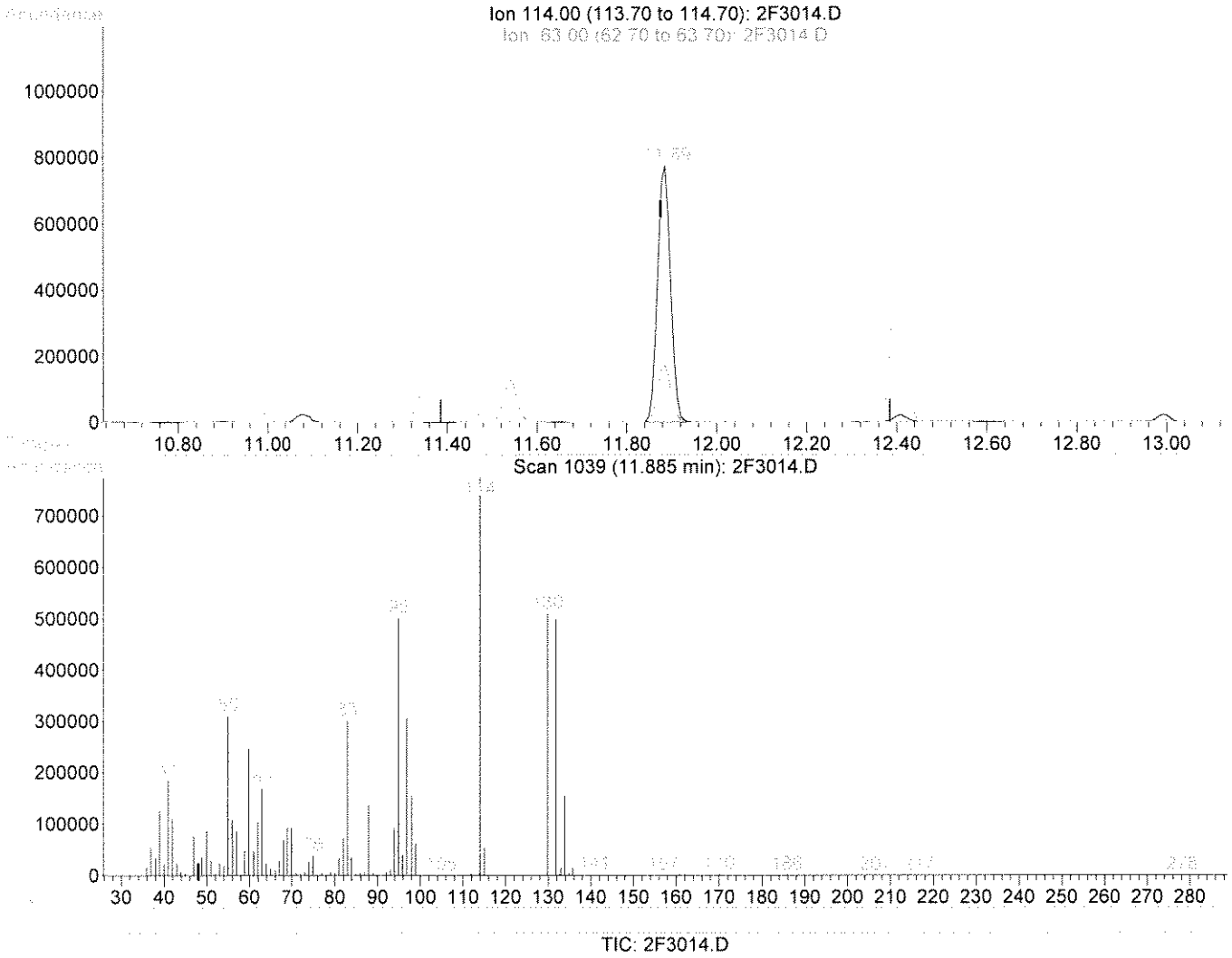
Ion	Exp%	Act%
114.00	100	100
63.00	25.60	22.83
88.00	18.20	17.33
0.00	0.00	0.00

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/6/13
Review by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060313\2F3014.D Vial: 14
Acq On : 3 Jun 2013 19:46 Operator: kat
Sample : scv2 100ppb Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 12:18 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration



(38) 1,4-Difluorobenzene(IS) (i)

11.89min 50.00ug/kg m

response 1543186

Ion	Exp%	Act%
114.00	100	100
63.00	25.60	22.96
88.00	18.20	17.43
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date LT 060413
Review by/Date: 06-5-13

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 2F3014.D
Sample ID: AA24402-SCV2
Analysis Date: 6/3/2013 7:46:00PM
Calibration: 1306004

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Dichlorodifluoromethane	100	91	80	120	91	PASS
Chloromethane	100	90	80	120	90	PASS
Vinyl chloride	100	87	80	120	87	PASS
Bromomethane	100	99	80	120	99	PASS
Chloroethane	100	83	80	120	83	PASS
Trichlorofluoromethane	100	94	80	120	94	PASS
Freon 113	100	99	80	120	99	PASS
Acrolein	500	450	75	125	90	PASS
Acetone	250	230	80	120	91	PASS
1,1-Dichloroethene	100	100	80	120	102	PASS
3-Chloropropene	100	93	75	125	93	PASS
Acetonitrile	100	100	75	125	105	PASS
Iodomethane	100	96	75	125	96	PASS
Carbon disulfide	100	98	80	120	98	PASS
Methylene Chloride	100	92	80	120	92	PASS
Methyl-tert-Butyl Ether	100	98	80	120	98	PASS
Acrylonitrile	100	110	75	125	107	PASS
trans-1,2-Dichloroethene	100	93	80	120	93	PASS
Isopropyl Ether	100	96	75	125	96	PASS
cis-1,2-Dichloroethene	100	95	80	120	95	PASS
1,1-Dichloroethane	100	99	80	120	99	PASS
Vinyl acetate	100	110	75	125	109	PASS
Chloroprene	100	110	75	125	110	PASS
2-Butanone	250	250	80	120	99	PASS
Propionitrile	100	110	75	125	109	PASS
2,2-Dichloropropane	100	99	80	120	99	PASS
Methacrylonitrile	100	100	75	125	103	PASS
Chloroform	100	98	80	120	98	PASS
Bromochloromethane	100	94	80	120	94	PASS
1,1,1-Trichloroethane	100	100	80	120	102	PASS
1,1-Dichloropropene	100	93	80	120	93	PASS
Diethyl ether	100	110	75	125	105	PASS
Methyl acetate	100	110	80	120	114	PASS
Cyclohexane	100	91	80	120	91	PASS
Methyl cyclohexane	100	88	80	120	88	PASS
Carbon Tetrachloride	100	100	80	120	103	PASS
1,2-Dichloroethane	100	100	80	120	103	PASS
Benzene	100	99	80	120	99	PASS
Isobutyl alcohol	100	87	75	125	87	PASS
Trichloroethene	100	97	80	120	97	PASS
1,2-Dichloropropane	100	97	80	120	97	PASS
Methyl Methacrylate	100	110	75	125	108	PASS
1,4-Dioxane	100	95	75	125	95	PASS
Bromodichloromethane	100	100	80	120	104	PASS
Dibromomethane	100	100	80	120	100	PASS
4-Methyl-2-pentanone	250	250	80	120	100	PASS
2-Chloroethyl Vinyl Ether	100	110	80	120	106	PASS
2-Hexanone	250	250	80	120	101	PASS
cis-1,3-Dichloropropene	100	96	80	120	96	PASS
Toluene	100	100	80	120	103	PASS
Ethyl Methacrylate	100	100	75	125	104	PASS
trans-1,3-Dichloropropene	100	110	80	120	111	PASS
1,1,2-Trichloroethane	100	100	80	120	103	PASS
1,3-Dichloropropane	100	100	80	120	102	PASS

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 2F3014.D
Sample ID: AA24402-SCV2
Analysis Date: 6/3/2013 7:46:00PM
Calibration: 1306004

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Tetrachloroethene	100	100	80	120	104	PASS
Dibromochloromethane	100	110	80	120	106	PASS
1,2-Dibromoethane	100	110	80	120	106	PASS
Chlorobenzene	100	95	80	120	95	PASS
1,1,1,2-Tetrachloroethane	100	100	80	120	101	PASS
Ethylbenzene	100	100	80	120	102	PASS
m,p-Xylenes	200	200	80	120	98	PASS
o-Xylene	100	97	80	120	97	PASS
Bromoform	100	100	80	120	101	PASS
Styrene	100	110	80	120	108	PASS
Isopropylbenzene	100	98	80	120	98	PASS
1,2,3-Trichloropropane	100	100	80	120	100	PASS
1,1,2,2-Tetrachloroethane	100	97	80	120	97	PASS
trans-1,4-Dichloro-2-butene	100	100	75	125	104	PASS
n-Propyl Benzene	100	100	80	120	102	PASS
Bromobenzene	100	91	80	120	91	PASS
1,3,5-Trimethylbenzene	100	92	80	120	92	PASS
2-Chlorotoluene	100	86	80	120	86	PASS
4-Chlorotoluene	100	90	80	120	90	PASS
1,2,4-Trimethylbenzene	100	93	80	120	93	PASS
sec-Butylbenzene	100	90	80	120	90	PASS
tert-Butylbenzene	100	90	80	120	90	PASS
4-Isopropyltoluene	100	100	80	120	104	PASS
1,3-Dichlorobenzene	100	87	80	120	87	PASS
1,4-Dichlorobenzene	100	89	80	120	89	PASS
1,2-Dichlorobenzene	100	88	80	120	88	PASS
n-Butyl Benzene	100	96	80	120	96	PASS
1,2-Dibromo-3-chloropropane	100	98	80	120	98	PASS
Naphthalene	100	96	80	120	96	PASS
1,2,4-Trichlorobenzene	100	93	80	120	93	PASS
Hexachlorobutadiene	100	96	80	120	96	PASS
1,2,3-Trichlorobenzene	100	96	80	120	96	PASS
Dibromofluoromethane	50.0	44	80	120	87	PASS
Toluene-d8	50.0	47	80	120	93	PASS
4-Bromofluorobenzene	50.0	47	80	120	94	PASS
Pentafluorobenzene	50.0	50	50	200	87	PASS
1,4-Difluorobenzene	50.0	50	50	200	84	PASS
Chlorobenzene-d5	50.0	50	50	200	83	PASS
1,4-Dichlorobenzene-d4	50.0	50	50	200	90	PASS

Signature: KMPP

Date: 6/5/13

ANALYSIS SEQUENCE

AA24402

2nd Tune for SCV1

Instrument: OVGCMS2

Calibration ID: 1306004

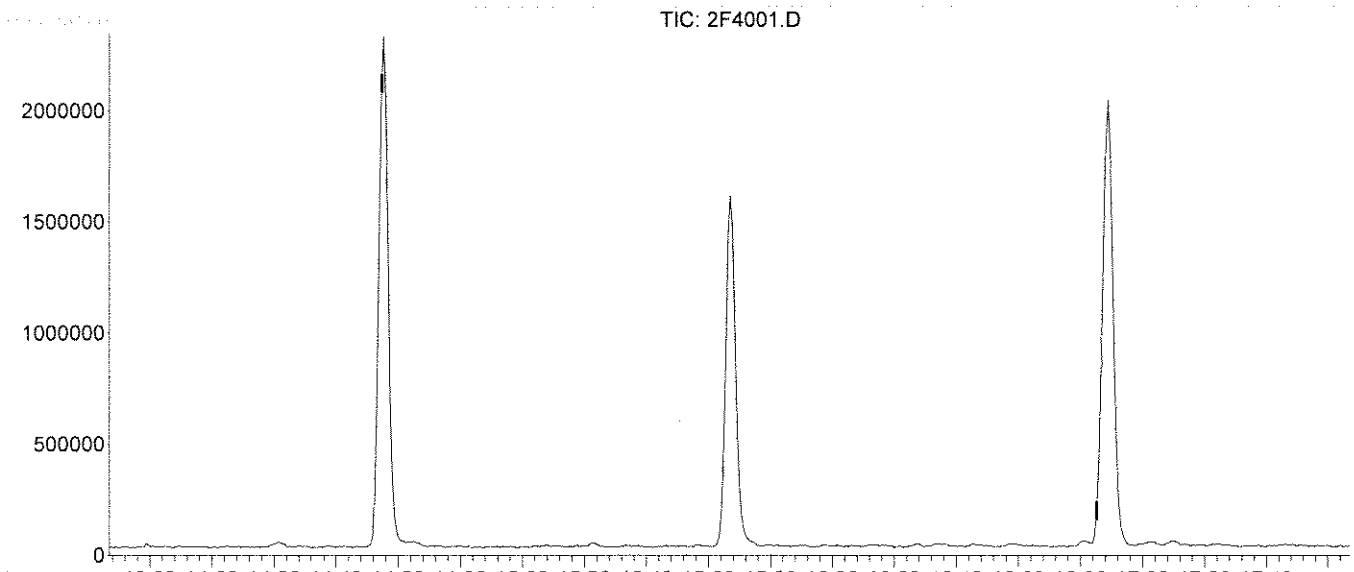
Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24402-TUN1	QC		1		A3E0210		
AA24402-ICB1	QC		2			A3D0152	
AA24402-CAL1	QC		3		A3F0011	A3D0152	
AA24402-CAL2	QC		4		A3F0012	A3D0152	
AA24402-CAL3	QC		5		A3F0013	A3D0152	
AA24402-CAL4	QC		6		A3F0014	A3D0152	
AA24402-CAL5	QC		7		A3F0015	A3D0152	
AA24402-CAL6	QC		8		A3F0017	A3D0152	
AA24402-CAL7	QC		9		A3F0018	A3D0152	
AA24402-SCV2	QC		10		A3F0020	A3D0152	
AA24402-TUN2	QC		11		A3E0210		
AA24402-CCV1	QC		12		A3F0031	A3D0152	
AA24402-SCV1	QC		13		A3F0019	A3D0152	
AA24402-IBL1	QC		14			A3D0152	

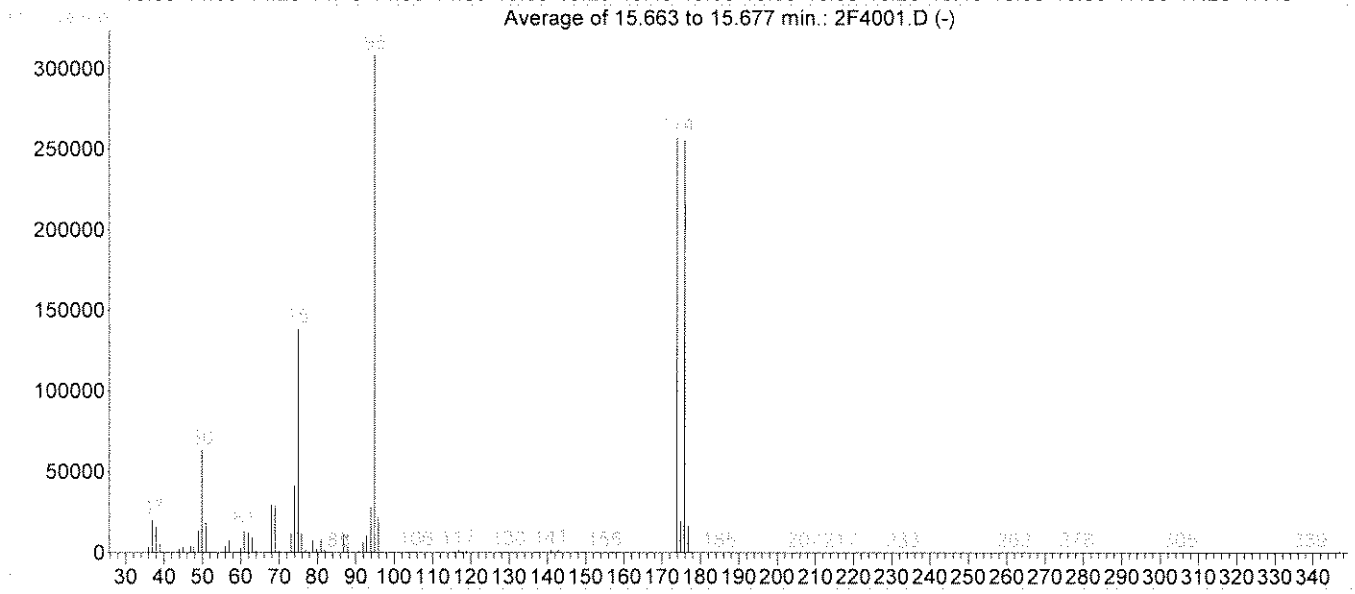
Samples Loaded By Date

Data Processed By Date

BFB

Data File : C:\HPCHEM\1\DATA\060413\2F4001.D Vial: 1
Acq On : 4 Jun 2013 13:09 Operator: kat
Sample : bfb 50 ng Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004





AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1562

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	63411	PASS
75	95	30	60	44.9	138656	PASS
95	95	100	100	100.0	308651	PASS
96	95	5	9	7.1	21779	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.4	257536	PASS
175	174	5	9	7.6	19597	PASS
176	174	95	101	99.4	255915	PASS
177	176	5	9	6.4	16503	PASS

KT 06/04/13

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration

KG060413

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	99	0.00
2		Dichlorodifluoromethane	0.682	0.731	-7.2	104	0.00
3	**	Chloromethane	0.797	0.780	2.1	106	-0.01
4	*	Vinyl Chloride	0.744	0.815	-9.5	113	-0.01
5		Bromomethane	0.277	0.266	4.0	97	-0.01
6		Chloroethane	0.297	0.270	9.1	94	-0.01
7		Trichlorofluoromethane	0.637	0.674	-5.8	105	0.00
8		Trichlorotrifluoroethane	0.385	0.389	-1.0	96	0.00
9		acrolein	0.088	0.078#	11.4	90	-0.02
10		Acetone	0.259	0.232	10.4	93	-0.02
11	*m	1,1-Dichloroethene	0.319	0.329	-3.1	100	0.00
12		3-Chloropropene	0.299	0.286	4.3	95	0.00
13		Acetonitrile	0.093	0.084#	9.7	90	-0.01
14		Iodomethane	0.681	0.617	9.4	85	0.00
15		Carbon disulfide	1.395	1.325	5.0	94	0.00
16		Methylene Chloride	0.576	0.542	5.9	93	0.00
17		Methyl tert-butyl ether	1.565	1.516	3.1	97	-0.01
18		Acrylonitrile	0.237	0.211	11.0	94	-0.01
19		T-1,2-Dichloroethene	0.531	0.528	0.6	96	-0.01
20		Isopropyl Ether	2.187	2.188	-0.0	101	0.00
21		C-1,2-Dichloroethene	0.558	0.558	0.0	99	-0.01
22	**	1,1-Dichloroethane	0.981	0.988	-0.7	100	0.00
23		Vinyl Acetate	1.808	1.674	7.4	94	0.00
24		Chloroprene	0.782	0.842	-7.7	101	-0.01
25		2-Butanone	0.076	0.067#	11.8	90	0.00
26		Propionitrile	0.092	0.079#	14.1	95	-0.01
27		2,2-Dichloropropane	0.743	0.785	-5.7	105	0.00
28		Methacrylonitrile	0.229	0.184	19.7	92	0.00
29	*	Chloroform	0.884	0.895	-1.2	100	0.00
30	s	Dibromofluoromethane	0.527	0.457	13.3	104	0.00
31		Dibromofluoromethane	0.527	0.457	13.3	104	0.00
32		Bromochloromethane	0.299	0.281	6.0	97	0.00
33		1,1,1-Trichloroethane	0.666	0.692	-3.9	102	-0.01
34		1,1-Dichloropropene	0.718	0.725	-1.0	101	0.00
35		Diethyl ether	0.375	0.370	1.3	96	-0.02
36		Methyl Acetate	0.112	0.103	8.0	95	-0.01
37		Cyclohexane	0.919	0.984	-7.1	102	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	100	0.00
39		Methyl Cyclohexane	0.575	0.547	4.9	100	0.00
40		Carbon Tetrachloride	0.405	0.416	-2.7	98	0.00
41		1,2-Dichloroethane	0.505	0.480	5.0	97	0.00
42	m	Benzene	1.297	1.260	2.9	100	0.00
43		Isobutyl Alcohol	0.045	0.039#	13.3	89	-0.01
44	s	1,2-Dichloroethane-d4	0.415	0.347	16.4	108	0.00
45		1,2-Dichloroethane-d4	0.415	0.347	16.4	108	0.00
46	m	Trichloroethene	0.358	0.356	0.6	99	0.00
47	*	1,2-Dichloropropane	0.384	0.376	2.1	101	0.00
48		Methyl Methacrylate	0.121	0.112	7.4	90	0.00
49		1,4-Dioxane	0.006	0.005#	16.7	88	0.00
50		Bromodichloromethane	0.478	0.467	2.3	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.253	0.235	7.1	95	0.00
52		4-Methyl-2-Pentanone	0.068	0.059#	13.2	89	0.00
53		2-Chloroethyl vinyl ether	0.009	0.008#	11.1	101	0.00
54		2-Hexanone	0.415	0.368	11.3	86	0.00
55		C-1,3-Dichloropropene	0.648	0.643	0.8	100	0.00
56	s	D8-Toluene	1.169	1.039	11.1	105	0.00
57		D8-Toluene	1.169	1.039	11.1	105	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	97	0.00
59	m*	Toluene	0.935	0.953	-1.9	99	0.00
60		Ethyl Methacrylate	0.630	0.559	11.3	92	0.00
61		T-1,3-Dichloropropene	0.622	0.616	1.0	100	0.00
62		1,1,2-Trichloroethane	0.361	0.342	5.3	98	0.00
63		1,3-Dichloropropane	0.680	0.650	4.4	97	0.00
64		Tetrachloroethene	0.325	0.334	-2.8	99	0.00
65		Dibromochloromethane	0.475	0.448	5.7	97	0.00
66		1,2-Dibromoethane	0.427	0.404	5.4	97	0.00
67	**m	Chlorobenzene	1.083	1.065	1.7	99	0.00
68		1,1,1,2-Tetrachloroethane	0.404	0.396	2.0	99	0.00
69	*	Ethylbenzene	0.514	0.518	-0.8	100	0.00
70		m-xylene & p-xylene	0.647	0.653	-0.9	99	0.00
71		O-Xylene	0.677	0.660	2.5	98	0.00
72	**	Bromoform	0.369	0.342	7.3	95	0.00
73		Styrene	1.054	1.108	-5.1	102	0.00
74		Isopropylbenzene	1.681	1.702	-1.2	99	0.00
75		1,2,3-Trichloropropane	0.669	0.589	12.0	92	0.00
76	**	1,1,2,2-Tetrachloroethane	0.571	0.503	11.9	93	0.00
77	s	Bromofluorobenzene	0.557	0.498	10.6	106	0.00
78		Bromofluorobenzene	0.557	0.498	10.6	106	0.00
79		T-1,4-dichloro-2-butene	0.175	0.159	9.1	91	0.00
80		N-Propylbenzene	1.994	2.058	-3.2	100	0.00
81	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	98	0.00
82		Bromobenzene	0.983	0.914	7.0	96	0.00
83		1,3,5-Trimethylbenzene	2.666	2.634	1.2	100	0.00
84		2-Chlorotoluene	2.602	2.507	3.7	100	0.00
85		4-Chlorotoluene	2.635	2.535	3.8	101	0.00
86		1,2,4-Trimethylbenzene	2.571	2.560	0.4	102	0.00
87		s-Butylbenzene	3.570	3.515	1.5	98	0.00
88		tert-Butylbenzene	2.449	2.389	2.4	98	0.00
89		p-Isopropyltoluene	2.568	2.608	-1.6	103	0.00
90		1,3-Dichlorobenzene	1.801	1.702	5.5	100	0.00
91		1,4-Dichlorobenzene	1.745	1.628	6.7	100	0.00
92		1,2-Dichlorobenzene	1.731	1.605	7.3	98	0.00
93		N-Butylbenzene	2.543	2.536	0.3	101	0.00
94		DBCP	0.224	0.184	17.9	92	0.00
95		Naphthalene	2.264	1.931	14.7	95	0.00
96		1,2,4-Trichlorobenzene	1.105	1.028	7.0	101	0.00
97		Hexachlorobutadiene	0.584	0.547	6.3	95	0.00
98		1,2,3-Trichlorobenzene	1.000	0.917	8.3	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:14 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LE060413

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1274126m	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1833243m	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.56	117	1588437	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	793021	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	582669	43.37	ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 86.74%			
44) 1,2-Dichloroethane-d4	11.47	65	636663	41.82	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 83.64%			
56) D8-Toluene	13.16	98	1904450	44.43	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 88.86%			
77) Bromofluorobenzene	15.68	95	790481	44.64	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 89.28%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.82	85	930977	53.59	ug/kg	74
3) Chloromethane	5.37	50	993767	48.94	ug/kg	99
4) Vinyl Chloride	5.60	62	1038608	54.79	ug/kg	96
5) Bromomethane	6.39	94	339454	48.16	ug/kg	93
6) Chloroethane	6.63	64	343874	45.44	ug/kg	87
7) Trichlorofluoromethane	6.92	101	858488	52.87	ug/kg	99
8) Trichlorotrifluoroethane	7.93	101	495355	50.53	ug/kg	99
9) acrolein	8.42	56	994932	442.35	ug/kg	99
10) Acetone	8.85	43	295918	44.90	ug/kg	97
11) 1,1-Dichloroethene	7.88	96	419430	51.65	ug/kg	95
12) 3-Chloropropene	8.62	76	364180	47.83	ug/kg	91
13) Acetonitrile	9.50	41	1064185	446.71	ug/kg	92
14) Iodomethane	8.15	142	786379	45.34	ug/kg	93
15) Carbon disulfide	7.97	76	1687824	47.48	ug/kg	99
16) Methylene Chloride	8.78	84	690385	47.01	ug/kg	92
17) Methyl tert-butyl ether	9.13	73	1931620	48.43	ug/kg	96
18) Acrylonitrile	9.88	53	2692120	445.11	ug/kg	94
19) T-1,2-Dichloroethene	9.00	96	672967	49.75	ug/kg	96
20) Isopropyl Ether	9.59	45	2787656	50.03	ug/kg	99
21) C-1,2-Dichloroethene	10.43	96	710764	49.98	ug/kg	95
22) 1,1-Dichloroethane	9.81	63	1258744	50.34	ug/kg	98
23) Vinyl Acetate	10.05	43	2133517	46.30	ug/kg	94
24) Chloroprene	9.77	53	1072761	53.84	ug/kg	76
25) 2-Butanone	11.02	72	85414	44.08	ug/kg	97
26) Propionitrile	11.35	54	1010227	431.24	ug/kg	100
27) 2,2-Dichloropropane	10.56	77	999719	52.78	ug/kg	100
28) Methacrylonitrile	11.37	67	2345283	401.82	ug/kg#	51
29) Chloroform	10.70	83	1139899	50.58	ug/kg	94
31) Dibromofluoromethane	10.90	113	582669	43.37	ug/kg	100
32) Bromochloromethane	10.66	128	357832	47.00	ug/kg	77
33) 1,1,1-Trichloroethane	10.96	97	881643	51.98	ug/kg#	96
34) 1,1-Dichloropropene	11.07	75	923642	50.49	ug/kg	91
35) Diethyl ether	7.53	59	471385	49.31	ug/kg	96
36) Methyl Acetate	8.99	74	131160	45.89	ug/kg	95
37) Cyclohexane	10.68	56	1254125	53.53	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:14 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Methyl Cyclohexane	11.90	55	1003261	47.55	ug/kg#	82
40) Carbon Tetrachloride	10.89	117	762849	51.37	ug/kg	96
41) 1,2-Dichloroethane	11.54	62	880419	47.51	ug/kg	94
42) Benzene	11.34	78	2309873	48.57	ug/kg#	48
43) Isobutyl Alcohol	11.41	43	1436575	868.12	ug/kg#	1
45) 1,2-Dichloroethane-d4	11.47	65	636663	41.82	ug/kg	96
46) Trichloroethene	11.89	130	652674	49.75	ug/kg	93
47) 1,2-Dichloropropane	12.40	63	688959	48.87	ug/kg	86
48) Methyl Methacrylate	12.48	100	205265	46.35	ug/kg#	1
49) 1,4-Dioxane	12.60	88	172395	817.33	ug/kg	66
50) Bromodichloromethane	12.42	83	855732	48.79	ug/kg#	100
51) Dibromomethane	12.32	93	430891	46.40	ug/kg	82
52) 4-Methyl-2-Pentanone	13.49	100	107513	43.37	ug/kg	90
53) 2-Chloroethyl vinyl ether	13.00	63	14582	45.28	ug/kg	67
54) 2-Hexanone	14.19	43	674679	44.38	ug/kg	96
55) C-1,3-Dichloropropene	12.99	75	1178890	49.62	ug/kg	80
57) D8-Toluene	13.16	98	1904450	44.43	ug/kg	98
59) Toluene	13.21	92	1513533	50.93	ug/kg	99
60) Ethyl Methacrylate	13.59	69	887973	44.34	ug/kg#	74
61) T-1,3-Dichloropropene	13.55	75	978439	49.53	ug/kg	79
62) 1,1,2-Trichloroethane	13.71	97	543177	47.32	ug/kg	97
63) 1,3-Dichloropropane	13.97	76	1032047	47.80	ug/kg	97
64) Tetrachloroethene	13.57	164	529850	51.38	ug/kg	88
65) Dibromochloromethane	13.89	129	710881	47.15	ug/kg	96
66) 1,2-Dibromoethane	14.15	107	641392	47.23	ug/kg	95
67) Chlorobenzene	14.57	112	1691840	49.15	ug/kg	91
68) 1,1,1,2-Tetrachloroethane	14.61	131	629055	48.99	ug/kg	89
69) Ethylbenzene	14.54	106	823319	50.40	ug/kg	99
70) m-xylene & p-xylene	14.66	106	2074886	101.00	ug/kg	83
71) O-Xylene	15.07	106	1048747	48.78	ug/kg	98
72) Bromoform	15.21	173	543991	46.36	ug/kg	92
73) Styrene	15.11	104	1760021	52.58	ug/kg	90
74) Isopropylbenzene	15.34	105	2703919	50.63	ug/kg	98
75) 1,2,3-Trichloropropane	16.00	75	935836	44.00	ug/kg	98
76) 1,1,2,2-Tetrachloroethane	15.80	83	799492	44.07	ug/kg	97
78) Bromofluorobenzene	15.68	95	790481	44.64	ug/kg#	63
79) T-1,4-dichloro-2-butene	15.99	53	252464	45.45	ug/kg#	70
80) N-Propylbenzene	15.75	91	3269558	51.60	ug/kg	94
82) Bromobenzene	15.83	156	725100	46.51	ug/kg	81
83) 1,3,5-Trimethylbenzene	15.90	105	2089107	49.41	ug/kg	89
84) 2-Chlorotoluene	15.97	91	1987908	48.16	ug/kg	96
85) 4-Chlorotoluene	16.14	91	2009969	48.10	ug/kg	94
86) 1,2,4-Trimethylbenzene	16.34	105	2030124	49.78	ug/kg	94
87) s-Butylbenzene	16.47	105	2787090	49.23	ug/kg	92
88) tert-Butylbenzene	16.28	119	1894697	48.78	ug/kg	94
89) p-Isopropyltoluene	16.59	119	2068256	50.79	ug/kg	96
90) 1,3-Dichlorobenzene	16.82	146	1350102	47.25	ug/kg	92
91) 1,4-Dichlorobenzene	16.91	146	1290663	46.64	ug/kg	94
92) 1,2-Dichlorobenzene	17.47	146	1272781	46.36	ug/kg	96
93) N-Butylbenzene	17.10	91	2010823	49.86	ug/kg	95
94) DBCP	18.61	75	146265	41.23	ug/kg	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:14 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

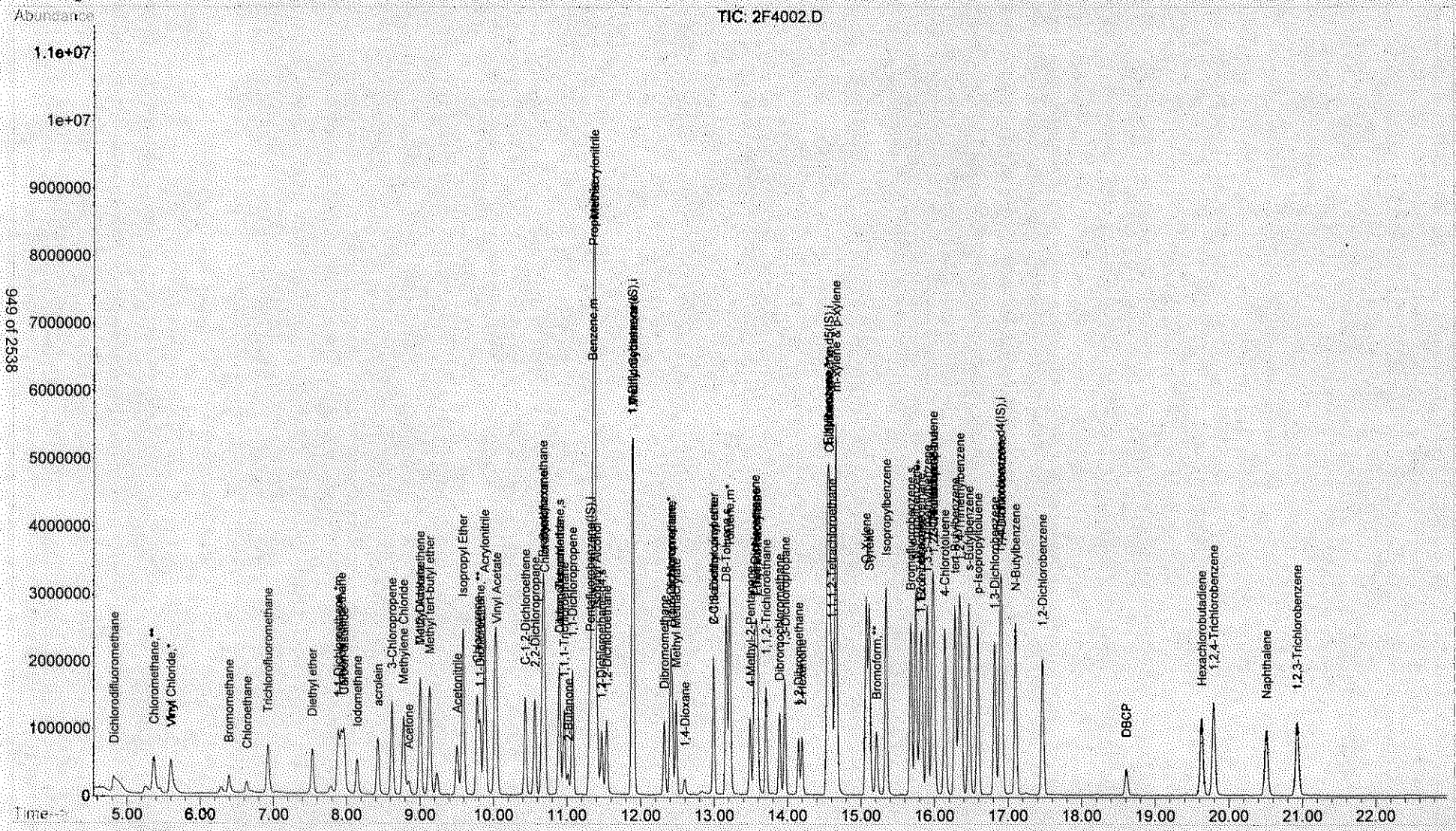
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.51	128	1531211	42.65 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.79	180	815130	46.51 ug/kg	89
97) Hexachlorobutadiene	19.63	225	433836	46.86 ug/kg	99
98) 1,2,3-Trichlorobenzene	20.92	180	727232	45.84 ug/kg	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:14 2013 Quant Results File: S1306004.RES

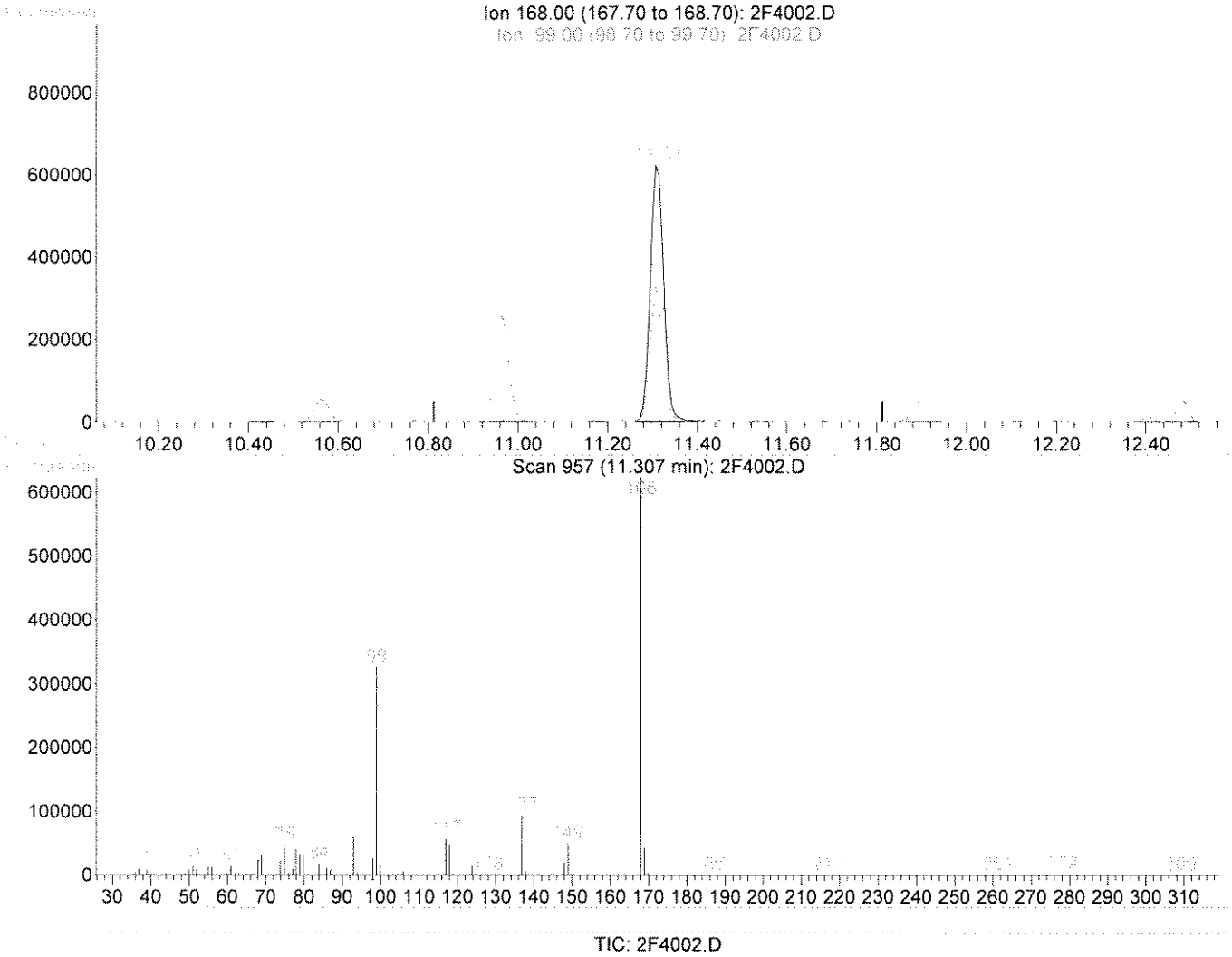
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration



(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg

response 1285632

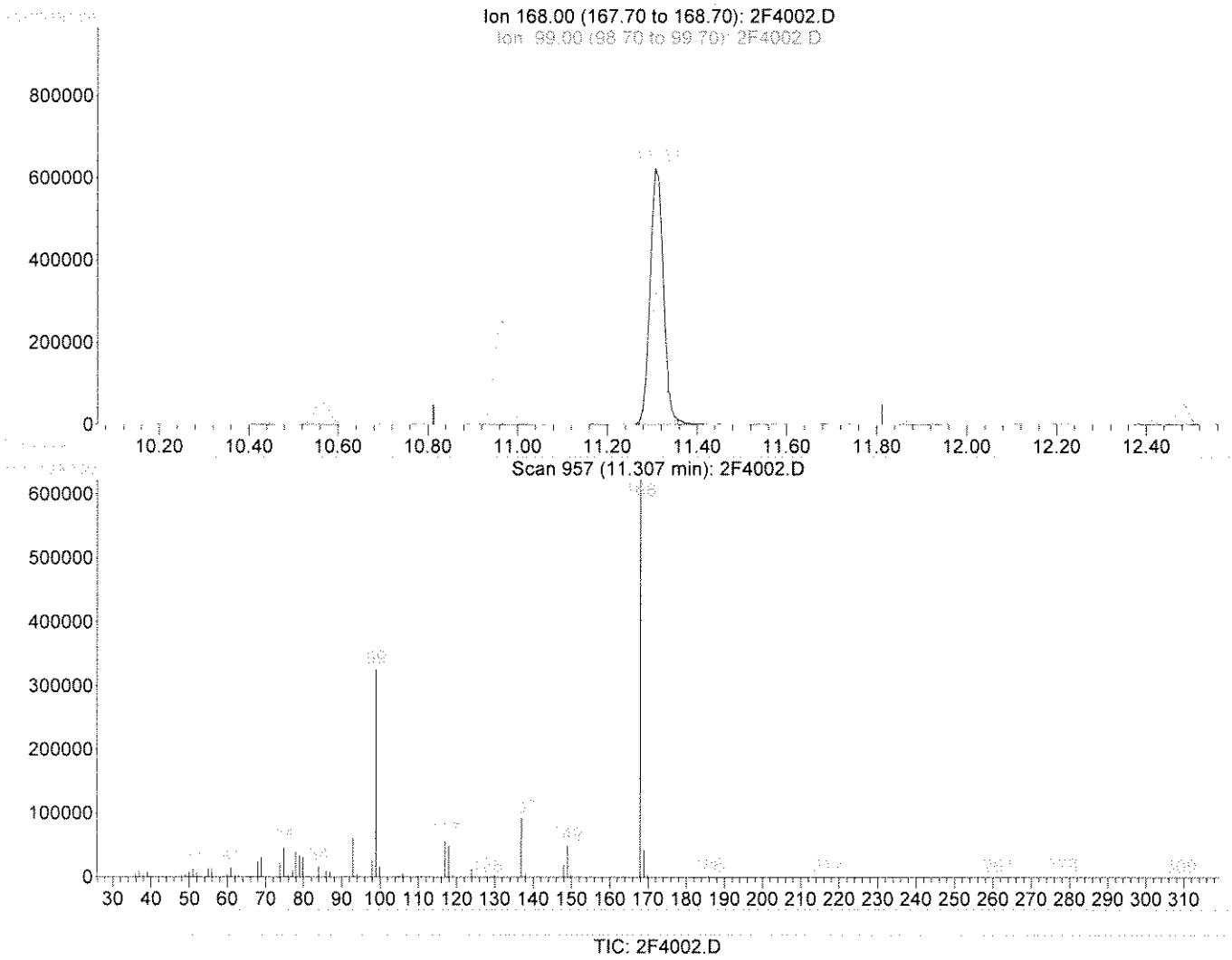
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	50.19
169.00	6.50	6.64
0.00	0.00	0.00

Select One:
[✓] Original Integration [] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 6/6/2013
Reviewed by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration



(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg m

response 1274126

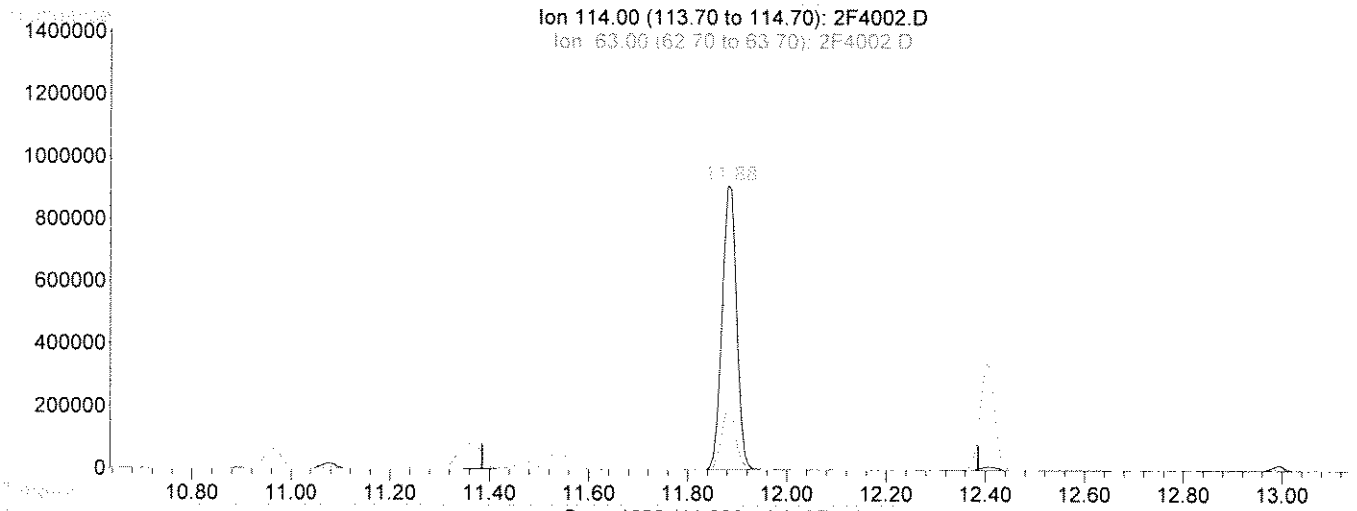
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	50.64
169.00	6.50	6.70
0.00	0.00	0.00

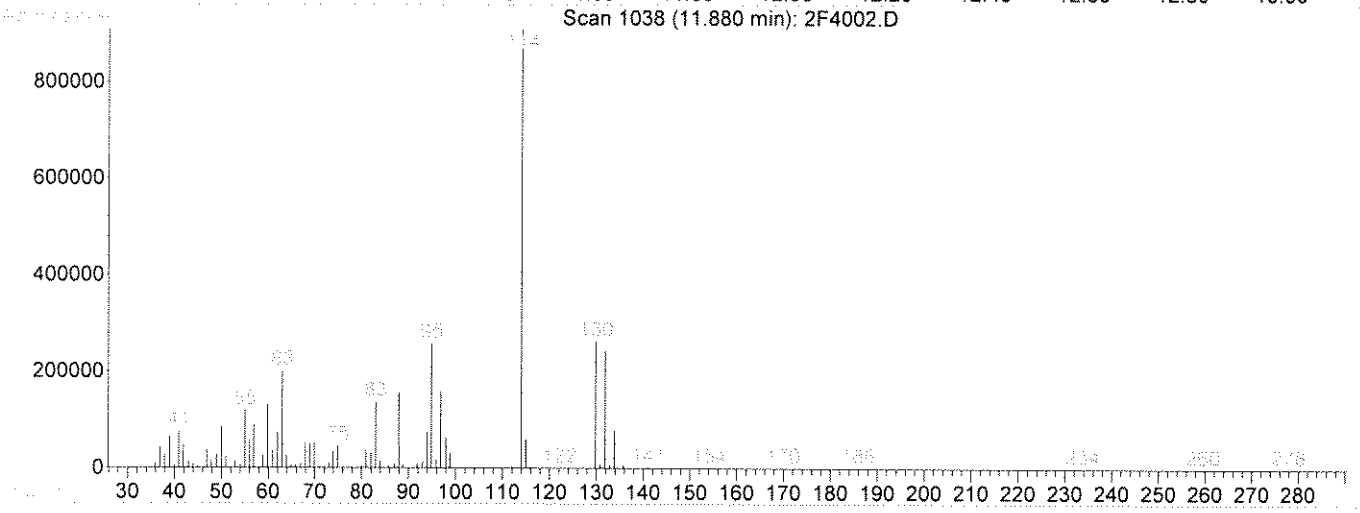
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date 060413
Review by/Date: 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration





TIC: 2F4002.D

(38) 1,4-Difluorobenzene(IS) (i)

11.88min 50.00ug/kg

response 1837303

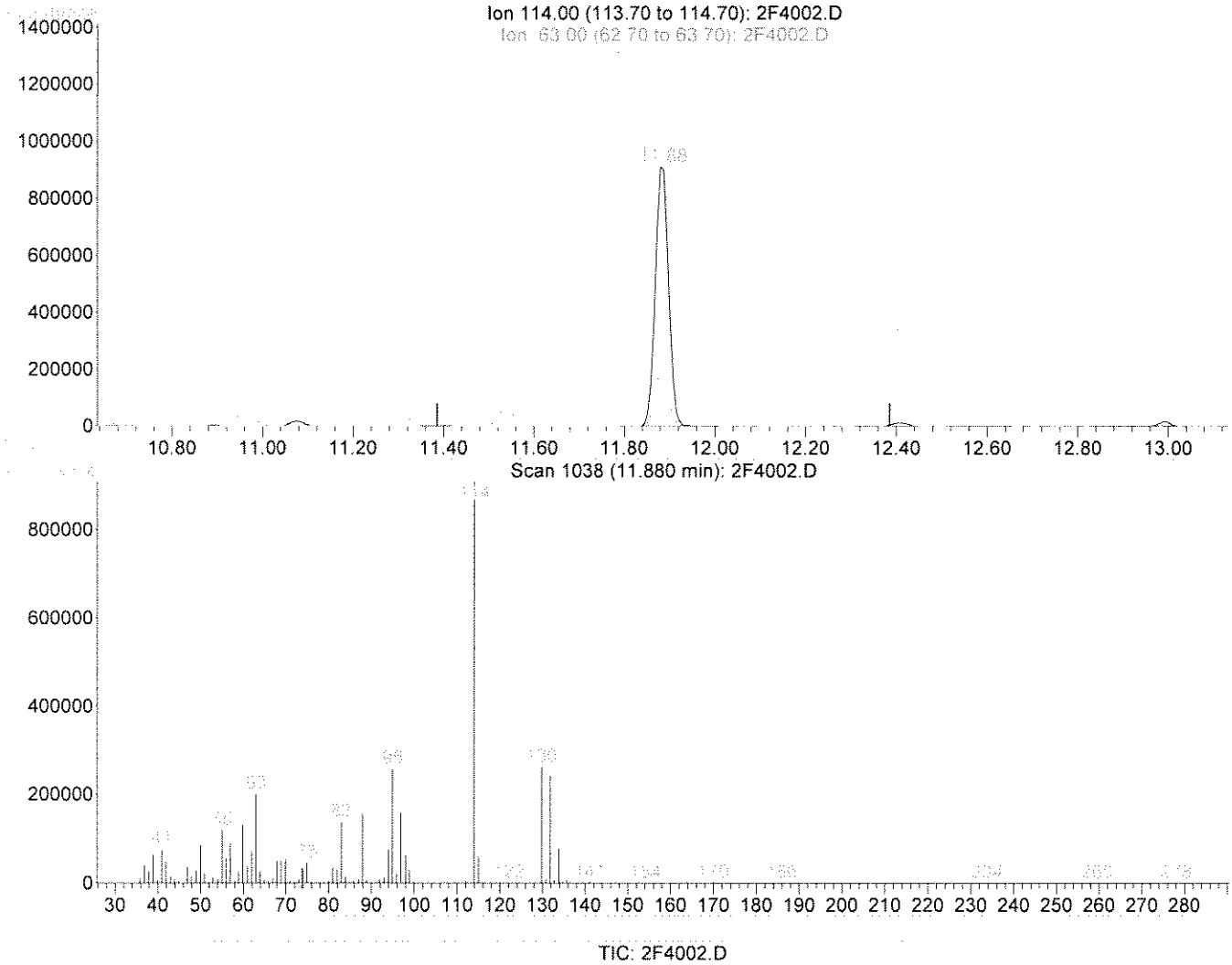
Ion	Exp%	Act%
114.00	100	100
63.00	25.60	21.51
88.00	18.20	16.84
0.00	0.00	0.00

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/6/13
Review by/Date: 6/6/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4002.D Vial: 2
Acq On : 4 Jun 2013 13:41 Operator: kat
Sample : 8260 cvs 50 ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:14 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 12:13:54 2013
Response via : Multiple Level Calibration



(38) 1,4-Difluorobenzene(IS) (i)

11.88min 50.00ug/kg m

response 1833243

Ion	Exp%	Act%
114.00	100	100
63.00	25.60	21.55
88.00	18.20	16.88
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[✓] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date LT 060413
Reviewed by/Date: KS 6-5-13

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : ~~3F04013-bs1~~ Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

KT060513
SW1 (50ug/kg) for DOD

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration

KT060513

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.682	0.720	-5.6	94	0.00
3	**	Chloromethane	0.797	0.952	-19.4	118	0.00
4	*	Vinyl Chloride	0.744	0.860	-15.6	109	0.00
5		Bromomethane	0.277	0.234	-15.5	78	0.00
6		Chloroethane	0.297	0.343	-15.5	110	0.00
7		Trichlorofluoromethane	0.637	0.729	-14.4	104	0.02
8		Trichlorotrifluoroethane	0.385	0.419	-8.8	94	0.00
9		acrolein	0.088	0.041#	53.4#	43#	-0.02
10		Acetone	0.259	0.585	-125.9#	213#	-0.02
11	*m	1,1-Dichloroethene	0.319	0.362	-13.5	100	0.00
12		3-Chloropropene	0.299	0.320	-7.0	98	0.00
13		Acetonitrile	0.093	0.009#	90.3#	9#	-0.02
14		Iodomethane	0.681	0.707	-3.8	89	0.00
15		Carbon disulfide	1.395	1.542	-10.5	99	0.00
16		Methylene Chloride	0.576	0.574	0.3	90	-0.01
17		Methyl tert-butyl ether	1.565	1.601	-2.3	94	-0.01
18		Acrylonitrile	0.237	0.025#	89.5#	10#	-0.01
19		T-1,2-Dichloroethene	0.531	0.540	-1.7	90	0.00
20		Isopropyl Ether	2.187	2.225	-1.7	94	-0.01
21		C-1,2-Dichloroethene	0.558	0.570	-2.2	93	-0.01
22	**	1,1-Dichloroethane	0.981	1.040	-6.0	97	0.00
23		Vinyl Acetate	1.808	2.070	-14.5	106	-0.01
24		Chloroprene	0.782	0.929	-18.8	101	-0.01
25		2-Butanone	0.076	0.182	-139.5#	222#	-0.01
26		Propionitrile	0.092	0.009#	90.2#	10#	-0.01
27		2,2-Dichloropropane	0.743	0.821	-10.5	100	0.00
28		Methacrylonitrile	0.229	0.023#	90.0#	11#	-0.01
29	*	Chloroform	0.884	0.933	-5.5	95	0.00
30	s	Dibromofluoromethane	0.527	0.434	-17.6	90	-0.01
31		Dibromofluoromethane	0.527	0.434	17.6	90	-0.01
32		Bromochloromethane	0.299	0.298	0.3	94	-0.01
33		1,1,1-Trichloroethane	0.666	0.721	-8.3	97	-0.01
34		1,1-Dichloropropene	0.718	0.719	-0.1	92	0.00
35		Diethyl ether	0.375	0.398	-6.1	95	-0.02
36		Methyl Acetate	0.112	0.130	-16.1	109	-0.01
37		Cyclohexane	0.919	0.928	-1.0	88	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	90	0.00
39		Methyl Cyclohexane	0.575	0.538	6.4	89	0.00
40		Carbon Tetrachloride	0.405	0.439	-8.4	94	0.00
41		1,2-Dichloroethane	0.505	0.523	-3.6	95	-0.01
42	m	Benzene	1.297	1.357	-4.6	98	-0.01
43		Isobutyl Alcohol	0.045	0.002#	95.6#	5#	-0.03
44	s	1,2-Dichloroethane-d4	0.415	0.342	17.6	96	0.00
45		1,2-Dichloroethane-d4	0.415	0.342	17.6	96	0.00
46	m	Trichloroethene	0.358	0.374	-4.5	94	0.00
47	*	1,2-Dichloropropane	0.384	0.390	-1.6	95	-0.01
48		Methyl Methacrylate	0.121	0.126	-4.1	91	0.00
49		1,4-Dioxane	0.006	0.000#	100.0#	4#	-0.02
50		Bromodichloromethane	0.478	0.521	-9.0	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : 3f04013-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.253	0.258	-2.0	94	0.00
52		4-Methyl-2-Pentanone	0.068	0.160	-135.3#	218#	0.00
53		2-Chloroethyl vinyl ether	0.009	0.007#	22.2#	83	0.00
54		2-Hexanone	0.415	1.003	-141.7#	212#	0.00
55		C-1,3-Dichloropropene	0.648	0.652	-0.6	92	0.00
56	s	D8-Toluene	1.169	0.996	14.8	91	0.00
57		D8-Toluene	1.169	0.996	14.8	91	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	87	0.00
59	m*	Toluene	0.935	1.003	-7.3	94	0.00
60		Ethyl Methacrylate	0.630	0.658	-4.4	97	-0.01
61		T-1,3-Dichloropropene	0.622	0.719	-15.6	104	0.00
62		1,1,2-Trichloroethane	0.361	0.374	-3.6	96	0.00
63		1,3-Dichloropropane	0.680	0.692	-1.8	93	0.00
64		Tetrachloroethene	0.325	0.354	-8.9	94	0.00
65		Dibromochloromethane	0.475	0.500	-5.3	97	0.00
66		1,2-Dibromoethane	0.427	0.439	-2.8	95	0.00
67	**m	Chlorobenzene	1.083	1.092	-0.8	91	0.00
68		1,1,1,2-Tetrachloroethane	0.404	0.415	-2.7	93	0.00
69	*	Ethylbenzene	0.514	0.548	-6.6	95	0.00
70		m-xylene & p-xylene	0.647	0.678	-4.8	92	0.00
71		O-Xylene	0.677	0.680	-0.4	91	0.00
72	**	Bromoform	0.369	0.360	2.4	89	0.00
73		Styrene	1.054	1.190	-12.9	98	0.00
74		Isopropylbenzene	1.681	1.762	-4.8	91	0.00
75		1,2,3-Trichloropropane	0.669	0.643	3.9	90	0.00
76	**	1,1,2,2-Tetrachloroethane	0.571	0.527	7.7	87	0.00
77	s	Bromofluorobenzene	0.557	0.484	13.1	92	0.00
78		Bromofluorobenzene	0.557	0.484	13.1	92	0.00
79		T-1,4-dichloro-2-butene	0.175	0.180	-2.9	92	0.00
80		N-Propylbenzene	1.994	2.137	-7.2	93	0.00
81	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	89	0.00
82		Bromobenzene	0.983	0.983	0.0	93	0.00
83		1,3,5-Trimethylbenzene	2.666	2.729	-2.4	94	0.00
84		2-Chlorotoluene	2.602	2.514	3.4	90	0.00
85		4-Chlorotoluene	2.635	2.621	0.5	94	0.00
86		1,2,4-Trimethylbenzene	2.571	2.680	-4.2	96	0.00
87		s-Butylbenzene	3.570	3.561	0.3	90	0.00
88		tert-Butylbenzene	2.449	2.360	3.6	88	-0.01
89		p-Isopropyltoluene	2.568	2.932	-14.2	104	0.00
90		1,3-Dichlorobenzene	1.801	1.691	6.1	89	-0.01
91		1,4-Dichlorobenzene	1.745	1.691	3.1	94	0.00
92		1,2-Dichlorobenzene	1.731	1.617	6.6	90	0.00
93		N-Butylbenzene	2.543	2.681	-5.4	97	0.00
94		DBCP	0.224	0.204	8.9	92	0.00
95		Naphthalene	2.264	2.171	4.1	96	-0.01
96		1,2,4-Trichlorobenzene	1.105	1.067	3.4	95	0.00
97		Hexachlorobutadiene	0.584	0.552	5.5	87	-0.01
98		1,2,3-Trichlorobenzene	1.000	0.945	5.5	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D 16960513 Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : ~~3F04013-bs1~~ SCV1 50ug/kg Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p DOD
Quant Time: Jun 4 14:55 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

16960513

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1163191m	50.00	ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.88	114	1653188m	50.00	ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1420230	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	717428	50.00	ug/kg	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.90	113	504415	41.13	ug/kg	-0.01
Spiked Amount 50.000	Range 72 - 133		Recovery = 82.26%			
44) 1,2-Dichloroethane-d4	11.47	65	565646	41.20	ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 82.40%			
56) D8-Toluene	13.16	98	1646541	42.59	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 85.18%			
77) Bromofluorobenzene	15.67	95	687345	43.41	ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 86.82%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.83	85	837415	52.80	ug/kg	99
3) Chloromethane	5.37	50	1106958	59.71	ug/kg	99
4) Vinyl Chloride	5.61	62	1000448	57.81	ug/kg	99
5) Bromomethane	6.40	94	271937	42.26	ug/kg	95
6) Chloroethane	6.65	64	399457	57.83	ug/kg	88
7) Trichlorofluoromethane	6.95	101	848283	57.22	ug/kg	99
8) Trichlorotrifluoroethane	7.93	101	486878	54.40	ug/kg	96
9) acrolein	8.42	56	472519	230.12	ug/kg	98
10) Acetone	8.85	43	679978	113.01	ug/kg	99
11) 1,1-Dichloroethene	7.89	96	420777	56.76	ug/kg	98
12) 3-Chloropropene	8.62	76	372702	53.62	ug/kg	90
13) Acetonitrile	9.50	41	103380	47.53	ug/kg	86
14) Iodomethane	8.15	142	821864	51.91	ug/kg	94
15) Carbon disulfide	7.98	76	1793189	55.25	ug/kg	99
16) Methylene Chloride	8.77	84	667208	49.77	ug/kg	91
17) Methyl tert-butyl ether	9.13	73	1861884	51.13	ug/kg	97
18) Acrylonitrile	9.88	53	288428	52.24	ug/kg	95
19) T-1,2-Dichloroethene	9.01	96	628446	50.89	ug/kg	97
20) Isopropyl Ether	9.58	45	2588426	50.89	ug/kg	99
21) C-1,2-Dichloroethene	10.43	96	663167	51.08	ug/kg	93
22) 1,1-Dichloroethane	9.81	63	1209807	53.00	ug/kg	97
23) Vinyl Acetate	10.04	43	2408294	57.24	ug/kg	92
24) Chloroprene	9.77	53	1080429	59.39	ug/kg	80
25) 2-Butanone	11.01	72	211662	119.65	ug/kg	98
26) Propionitrile	11.35	54	106672	49.88	ug/kg	100
27) 2,2-Dichloropropane	10.56	77	954671	55.21	ug/kg	99
28) Methacrylonitrile	11.36	67	270605	50.78	ug/kg#	1
29) Chloroform	10.70	83	1085451	52.76	ug/kg	93
31) Dibromofluoromethane	10.90	113	504415	41.13	ug/kg	100
32) Bromochloromethane	10.66	128	346419	49.84	ug/kg	77
33) 1,1,1-Trichloroethane	10.96	97	838837	54.17	ug/kg#	97
34) 1,1-Dichloropropene	11.07	75	836790	50.11	ug/kg	93
35) Diethyl ether	7.53	59	463407	53.10	ug/kg	95
36) Methyl Acetate	8.99	74	151086	57.91	ug/kg	79
37) Cyclohexane	10.68	56	1079888	50.49	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : 3f04013-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:55 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	11.90	55	888642	46.70 ug/kg#	84
40) Carbon Tetrachloride	10.89	117	726435	54.24 ug/kg	96
41) 1,2-Dichloroethane	11.53	62	864902	51.76 ug/kg	96
42) Benzene	11.33	78	2243936	52.33 ug/kg	93
43) Isobutyl Alcohol	11.39	43	76993	51.59 ug/kg	64
45) 1,2-Dichloroethane-d4	11.47	65	565646	41.20 ug/kg	94
46) Trichloroethene	11.89	130	617859	52.23 ug/kg	93
47) 1,2-Dichloropropane	12.40	63	644424	50.69 ug/kg	86
48) Methyl Methacrylate	12.48	100	208413	52.19 ug/kg#	1
49) 1,4-Dioxane	12.59	88	8306	43.67 ug/kg	92
50) Bromodichloromethane	12.42	83	861716	54.48 ug/kg#	100
51) Dibromomethane	12.32	93	426640	50.95 ug/kg	83
52) 4-Methyl-2-Pentanone	13.48	100	264079	118.12 ug/kg	92
53) 2-Chloroethyl vinyl ether	12.99	63	11998	41.31 ug/kg	73
54) 2-Hexanone	14.19	43	1657755	120.92 ug/kg	97
55) C-1,3-Dichloropropene	12.99	75	1077504	50.29 ug/kg	79
57) D8-Toluene	13.16	98	1646541	42.59 ug/kg	98
59) Toluene	13.21	92	1425104	53.64 ug/kg	99
60) Ethyl Methacrylate	13.58	69	933980	52.16 ug/kg#	78
61) T-1,3-Dichloropropene	13.54	75	1020436	57.77 ug/kg	80
62) 1,1,2-Trichloroethane	13.70	97	531025	51.74 ug/kg	97
63) 1,3-Dichloropropane	13.96	76	982259	50.88 ug/kg	97
64) Tetrachloroethene	13.57	164	503191	54.58 ug/kg	88
65) Dibromochloromethane	13.89	129	710277	52.69 ug/kg	95
66) 1,2-Dibromoethane	14.14	107	624058	51.40 ug/kg	94
67) Chlorobenzene	14.57	112	1550289	50.38 ug/kg	91
68) 1,1,1,2-Tetrachloroethane	14.60	131	588963	51.30 ug/kg	89
69) Ethylbenzene	14.54	106	778820	53.32 ug/kg	98
70) m-xylene & p-xylene	14.65	106	1925467	104.83 ug/kg	84
71) O-Xylene	15.07	106	966105	50.25 ug/kg	98
72) Bromoform	15.21	173	511512	48.76 ug/kg	92
73) Styrene	15.11	104	1690505	56.48 ug/kg	89
74) Isopropylbenzene	15.34	105	2503102	52.43 ug/kg	100
75) 1,2,3-Trichloropropane	15.99	75	913865	48.06 ug/kg	97
76) 1,1,2,2-Tetrachloroethane	15.80	83	748709	46.16 ug/kg	98
78) Bromofluorobenzene	15.67	95	687345	43.41 ug/kg#	61
79) T-1,4-dichloro-2-butene	15.98	53	256192	51.59 ug/kg#	76
80) N-Propylbenzene	15.74	91	3034852	53.57 ug/kg	96
82) Bromobenzene	15.83	156	704952	49.98 ug/kg	81
83) 1,3,5-Trimethylbenzene	15.90	105	1957731	51.18 ug/kg	91
84) 2-Chlorotoluene	15.97	91	1803305	48.30 ug/kg	97
85) 4-Chlorotoluene	16.14	91	1880440	49.74 ug/kg	94
86) 1,2,4-Trimethylbenzene	16.33	105	1922742	52.11 ug/kg	96
87) s-Butylbenzene	16.46	105	2554555	49.87 ug/kg	93
88) tert-Butylbenzene	16.27	119	1693297	48.18 ug/kg	96
89) p-Isopropyltoluene	16.58	119	2103243	57.09 ug/kg	96
90) 1,3-Dichlorobenzene	16.81	146	1213146	46.93 ug/kg	93
91) 1,4-Dichlorobenzene	16.91	146	1213012	48.45 ug/kg	95
92) 1,2-Dichlorobenzene	17.46	146	1160164	46.71 ug/kg	98
93) N-Butylbenzene	17.09	91	1923391	52.72 ug/kg	95
94) DBCP	18.60	75	146128	45.53 ug/kg	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : 3f04013-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:55 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.50	128	1557455	47.95 ug/kg	100
96) 1,2,4-Trichlorobenzene	19.79	180	765253	48.26 ug/kg	89
97) Hexachlorobutadiene	19.62	225	396074	47.29 ug/kg	98
98) 1,2,3-Trichlorobenzene	20.92	180	677997	47.23 ug/kg	90

(#) = qualifier out of range (m) = manual integration

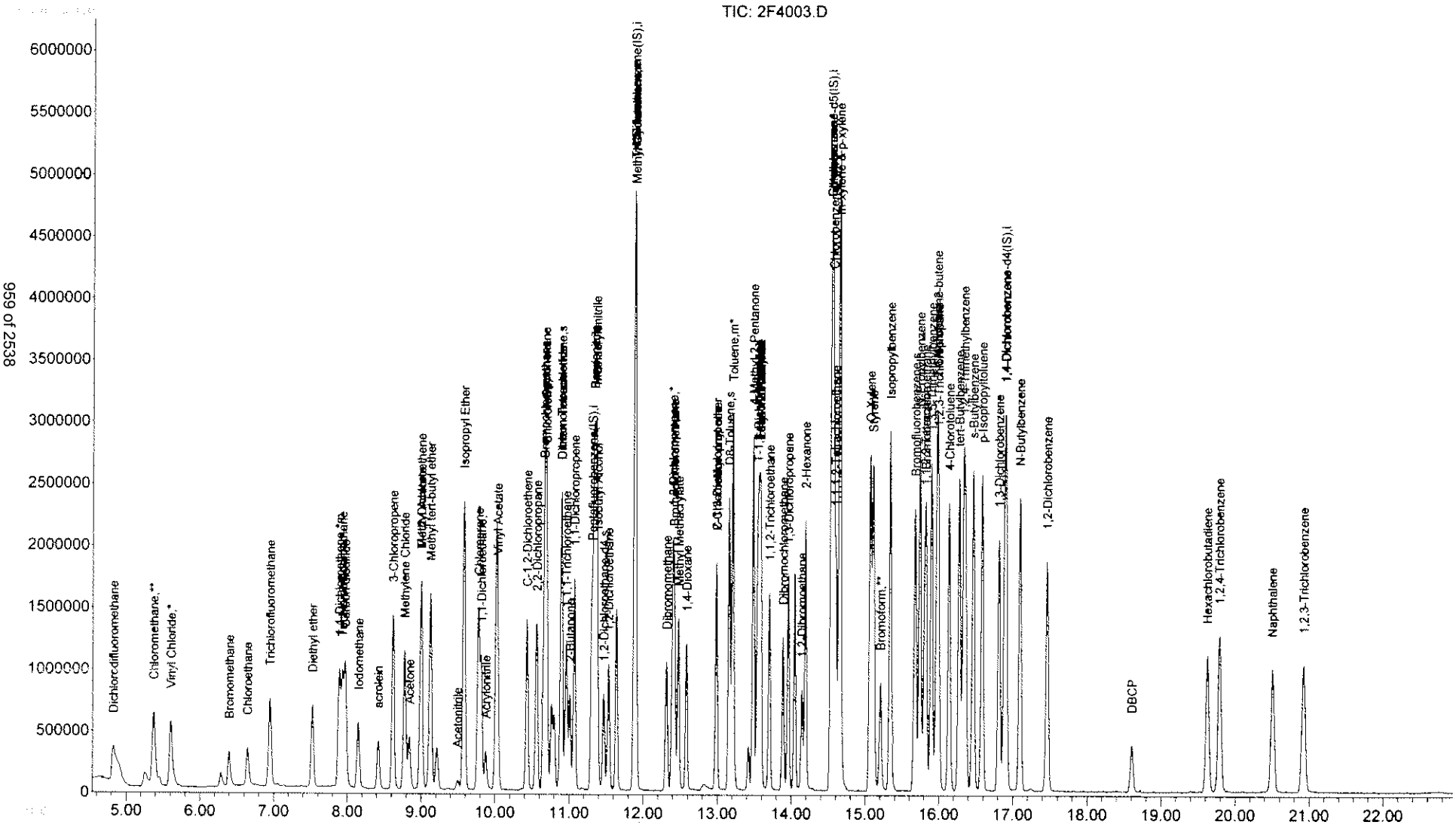
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D
Acq On : 4 Jun 2013 14:17
Sample : 3f04013-bs1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 4 14:55 2013

Vial: 3
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00

Quant Results File: S1306004.RES

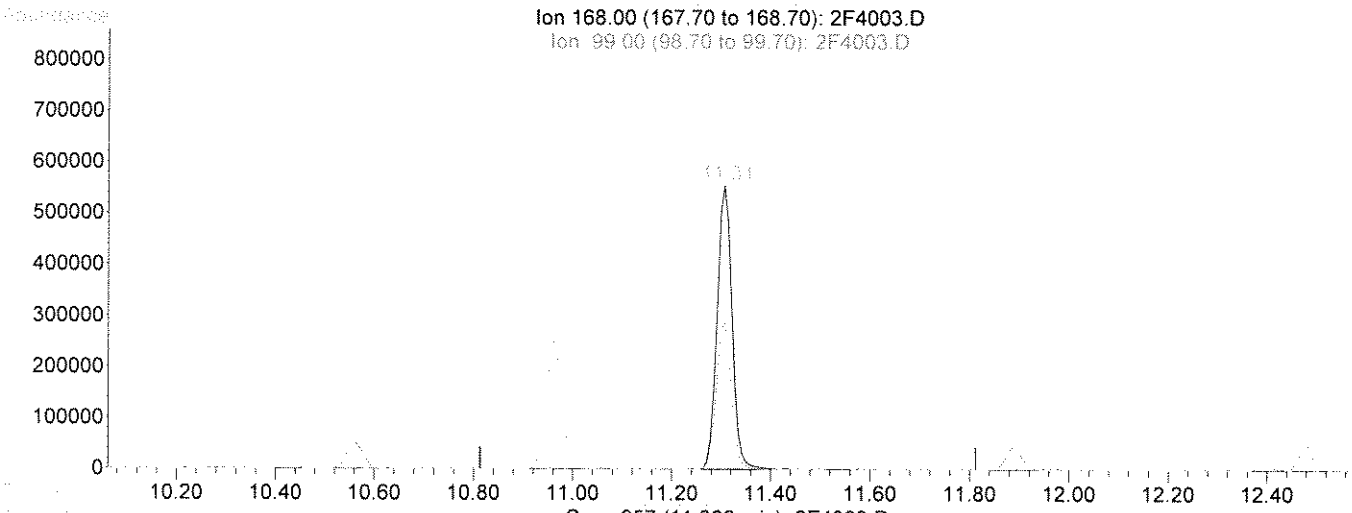
Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration

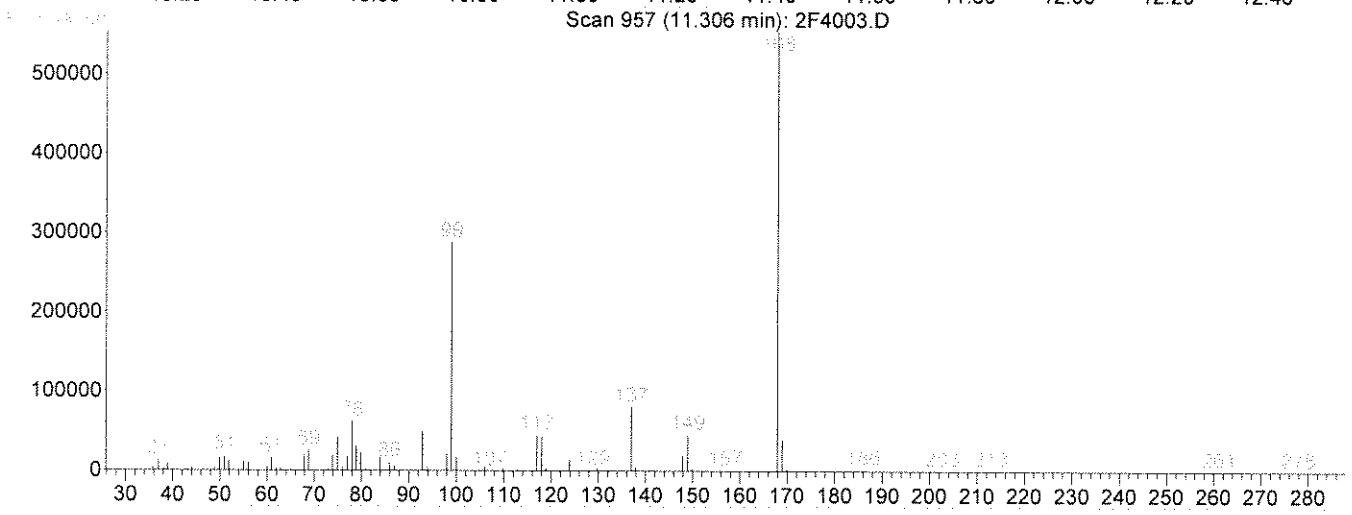


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : 3f04013-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Multiple Level Calibration





TIC: 2F4003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg

response 1159521

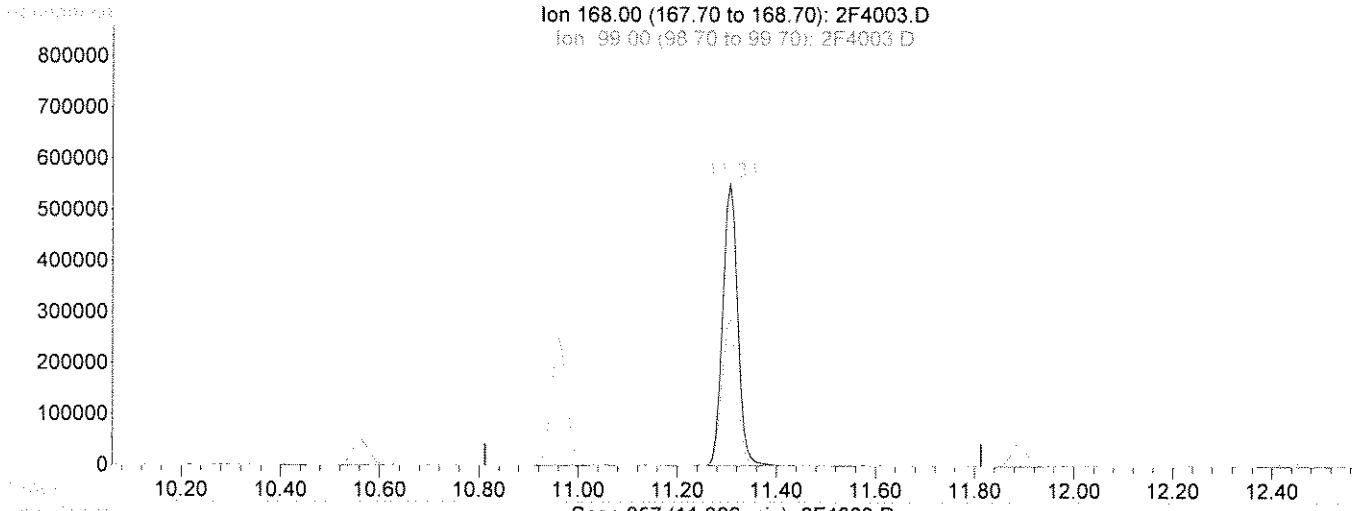
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	51.84
169.00	6.50	7.17
0.00	0.00	0.00

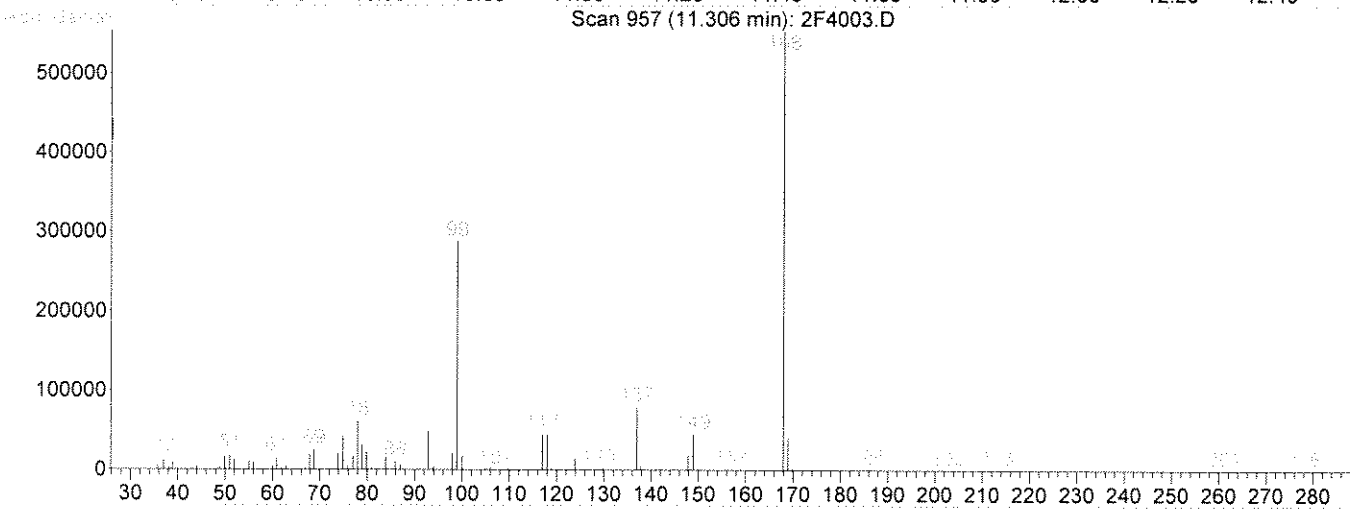
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LtD 6/05/13
Review by/Date: [illegible]

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : 3f04013-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Multiple Level Calibration





TIC: 2F4003.D

(1) Pentafluorobenzene(IS) (i)

11.31min 50.00ug/kg m

response 1163191

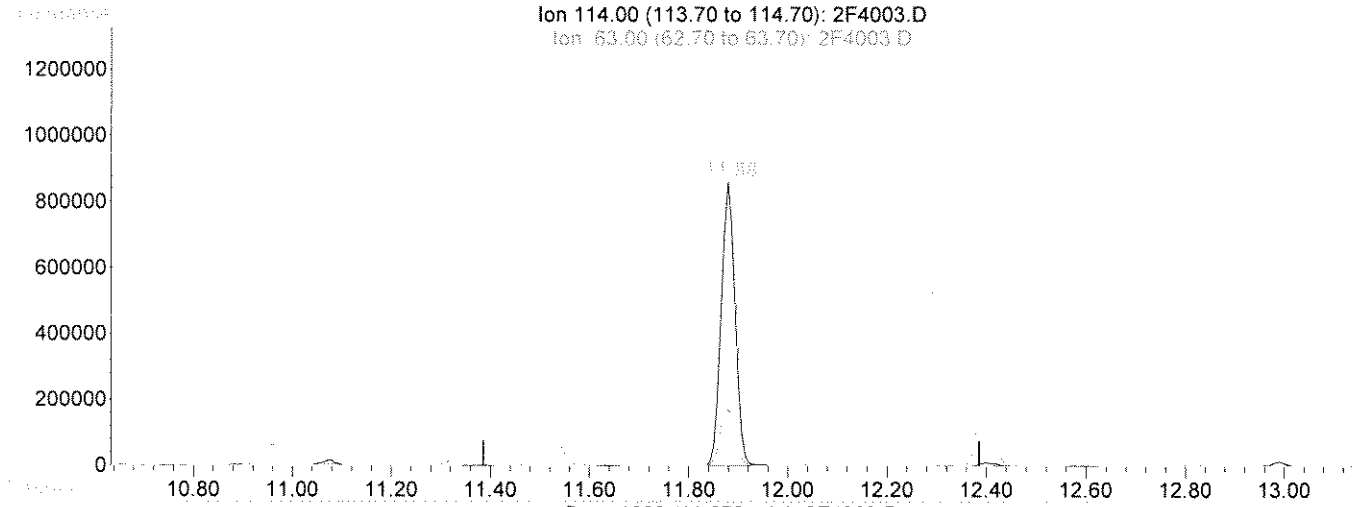
Ion	Exp%	Act%
168.00	100	100
99.00	56.00	51.67
169.00	6.50	7.14
0.00	0.00	0.00

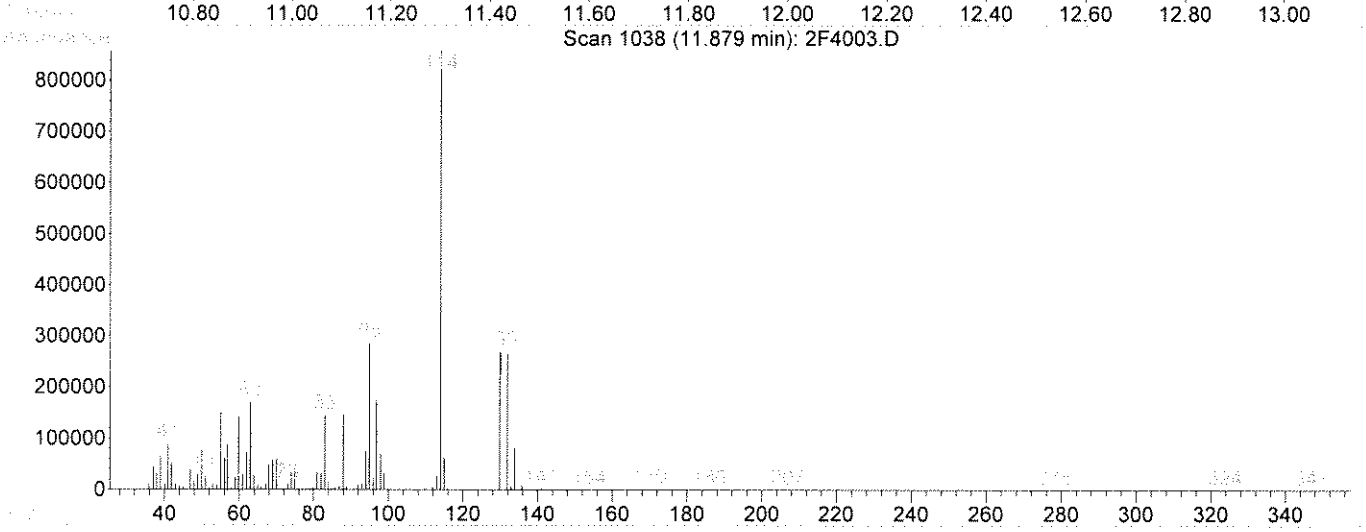
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] STD reintegration
[] Other:
Review by/Date 6/6/2013
Review by/Date: 6/6-5/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : 3f04013-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:45 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Multiple Level Calibration





TIC: 2F4003.D

(38) 1,4-Difluorobenzene(IS) (i)

11.88min 50.00ug/kg

response 1660819

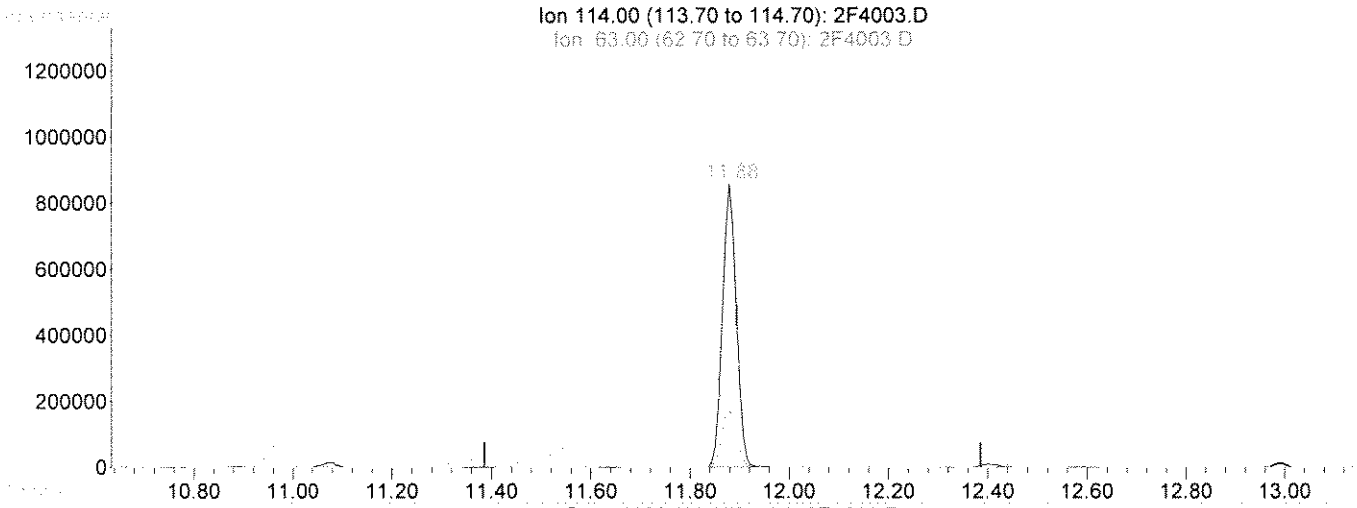
Ion	Exp%	Act%
114.00	100	100
63.00	25.60	21.74
88.00	18.20	17.35
0.00	0.00	0.00

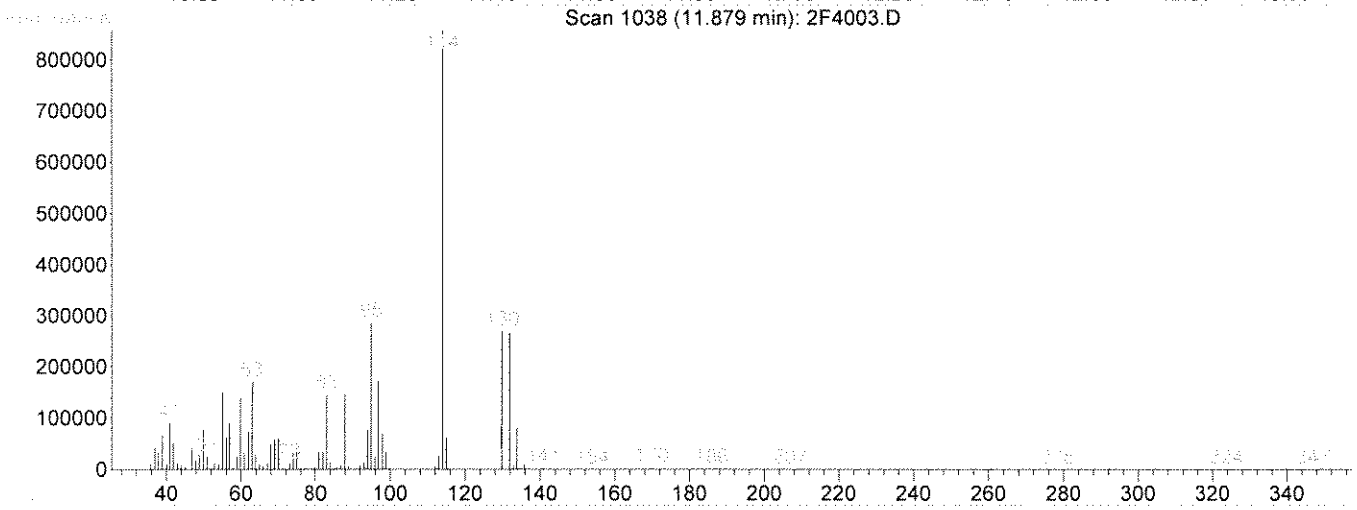
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 6/06/05/13
Review by/Date: KS 6-5-13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\060413\2F4003.D Vial: 3
Acq On : 4 Jun 2013 14:17 Operator: kat
Sample : 3f04013-bs1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 4 14:55 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:15:13 2013
Response via : Multiple Level Calibration





TIC: 2F4003.D

(38) 1,4-Difluorobenzene(IS) (i)

11.88min 50.00ug/kg m

response 1653188

Ion	Exp%	Act%
114.00	100	100
63.00	25.60	21.84
88.00	18.20	17.43
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Humps integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: VGT060513
Review by/Date: KS 6-5-13

Initial Calibration Verification - Second Source Standard

8260B DOD Extended

File Information

Filename: 2F4003.D
Sample ID: AA24402-SCV1
Analysis Date: 6/4/2013 2:17:00PM
Calibration: 1306004

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Dichlorodifluoromethane	50.0	53	80	120	106	PASS
Chloromethane	50.0	60	80	120	119	PASS
Vinyl chloride	50.0	58	80	120	116	PASS
Bromomethane	50.0	42	80	120	85	PASS
Chloroethane	50.0	58	80	120	116	PASS
Trichlorofluoromethane	50.0	57	80	120	114	PASS
Freon 113	50.0	54	80	120	109	PASS
Acrolein	250	230	75	125	92	PASS
Acetone	125	110	80	120	90	PASS
1,1-Dichloroethene	50.0	57	80	120	114	PASS
3-Chloropropene	50.0	54	75	125	107	PASS
Acetonitrile	50.0	48	75	125	95	PASS
Iodomethane	50.0	52	75	125	104	PASS
Carbon disulfide	50.0	55	80	120	110	PASS
Methylene Chloride	50.0	50	80	120	100	PASS
Methyl-tert-Butyl Ether	50.0	51	80	120	102	PASS
Acrylonitrile	50.0	52	75	125	104	PASS
trans-1,2-Dichloroethene	50.0	51	80	120	102	PASS
Isopropyl Ether	50.0	51	75	125	102	PASS
cis-1,2-Dichloroethene	50.0	51	80	120	102	PASS
1,1-Dichloroethane	50.0	53	80	120	106	PASS
Vinyl acetate	50.0	57	75	125	114	PASS
Chloroprene	50.0	59	75	125	119	PASS
2-Butanone	125	120	80	120	96	PASS
Propionitrile	50.0	50	75	125	100	PASS
2,2-Dichloropropane	50.0	55	80	120	110	PASS
Methacrylonitrile	50.0	51	75	125	102	PASS
Chloroform	50.0	53	80	120	106	PASS
Bromochloromethane	50.0	50	80	120	100	PASS
1,1,1-Trichloroethane	50.0	54	80	120	108	PASS
1,1-Dichloropropene	50.0	50	80	120	100	PASS
Diethyl ether	50.0	53	75	125	106	PASS
Methyl acetate	50.0	58	80	120	116	PASS
Cyclohexane	50.0	50	80	120	101	PASS
Methyl cyclohexane	50.0	47	80	120	93	PASS
Carbon Tetrachloride	50.0	54	80	120	108	PASS
1,2-Dichloroethane	50.0	52	80	120	104	PASS
Benzene	50.0	52	80	120	105	PASS
Isobutyl alcohol	50.0	52	75	125	103	PASS
Trichloroethene	50.0	52	80	120	104	PASS
1,2-Dichloropropane	50.0	51	80	120	101	PASS
Methyl Methacrylate	50.0	52	75	125	104	PASS
1,4-Dioxane	50.0	44	75	125	87	PASS
Bromodichloromethane	50.0	54	80	120	109	PASS
Dibromomethane	50.0	51	80	120	102	PASS
4-Methyl-2-pentanone	125	120	80	120	94	PASS
2-Chloroethyl Vinyl Ether	50.0	41	80	120	83	PASS
2-Hexanone	125	120	80	120	97	PASS
cis-1,3-Dichloropropene	50.0	50	80	120	101	PASS
Toluene	50.0	54	80	120	107	PASS
Ethyl Methacrylate	50.0	52	75	125	104	PASS
trans-1,3-Dichloropropene	50.0	58	80	120	116	PASS
1,1,2-Trichloroethane	50.0	52	80	120	103	PASS
1,3-Dichloropropane	50.0	51	80	120	102	PASS

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 2F4003.D
Sample ID: AA24402-SCV1
Analysis Date: 6/4/2013 2:17:00PM
Calibration: 1306004

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Tetrachloroethene	50.0	55	80	120	109	PASS
Dibromochloromethane	50.0	53	80	120	105	PASS
1,2-Dibromoethane	50.0	51	80	120	103	PASS
Chlorobenzene	50.0	50	80	120	101	PASS
1,1,1,2-Tetrachloroethane	50.0	51	80	120	103	PASS
Ethylbenzene	50.0	53	80	120	107	PASS
m,p-Xylenes	100	100	80	120	105	PASS
o-Xylene	50.0	50	80	120	100	PASS
Bromoform	50.0	49	80	120	98	PASS
Styrene	50.0	56	80	120	113	PASS
Isopropylbenzene	50.0	52	80	120	105	PASS
1,2,3-Trichloropropane	50.0	48	80	120	96	PASS
1,1,2,2-Tetrachloroethane	50.0	46	80	120	92	PASS
trans-1,4-Dichloro-2-butene	50.0	52	75	125	103	PASS
n-Propyl Benzene	50.0	54	80	120	107	PASS
Bromobenzene	50.0	50	80	120	100	PASS
1,3,5-Trimethylbenzene	50.0	51	80	120	102	PASS
2-Chlorotoluene	50.0	48	80	120	97	PASS
4-Chlorotoluene	50.0	50	80	120	99	PASS
1,2,4-Trimethylbenzene	50.0	52	80	120	104	PASS
sec-Butylbenzene	50.0	50	80	120	100	PASS
tert-Butylbenzene	50.0	48	80	120	96	PASS
4-Isopropyltoluene	50.0	57	80	120	114	PASS
1,3-Dichlorobenzene	50.0	47	80	120	94	PASS
1,4-Dichlorobenzene	50.0	48	80	120	97	PASS
1,2-Dichlorobenzene	50.0	47	80	120	93	PASS
n-Butyl Benzene	50.0	53	80	120	105	PASS
1,2-Dibromo-3-chloropropane	50.0	46	80	120	91	PASS
Naphthalene	50.0	48	80	120	96	PASS
1,2,4-Trichlorobenzene	50.0	48	80	120	97	PASS
Hexachlorobutadiene	50.0	47	80	120	95	PASS
1,2,3-Trichlorobenzene	50.0	47	80	120	94	PASS
Dibromofluoromethane	50.0	41	80	120	82	PASS
Toluene-d8	50.0	43	80	120	85	PASS
4-Bromofluorobenzene	50.0	43	80	120	87	PASS
Pentafluorobenzene	50.0	50	50	200	91	PASS
1,4-Difluorobenzene	50.0	50	50	200	90	PASS
Chlorobenzene-d5	50.0	50	50	200	89	PASS
1,4-Dichlorobenzene-d4	50.0	50	50	200	90	PASS

Signature: [illegible]
Date: 6/5/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4006.D
Acq On : 4 Jun 2013 16:09
Sample : 3~~f04013-blk1~~ IPL KGD6013
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 5 10:14 2013

Vial: 6
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

KGD6013

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.31	168	1100792	50.00 ug/kg	0.00
38) 1,4-Difluorobenzene(IS)	11.89	114	1644347	50.00 ug/kg	0.00
58) Chlorobenzene-d5(IS)	14.55	117	1457861	50.00 ug/kg	0.00
81) 1,4-Dichlorobenzene-d4(IS)	16.89	152	672305	50.00 ug/kg	0.00

System Monitoring Compounds					
30) Dibromofluoromethane	10.90	113	551042	47.48 ug/kg	0.00
Spiked Amount 50.000	Range 72 - 133		Recovery = 94.96%		
44) 1,2-Dichloroethane-d4	11.48	65	603591	44.20 ug/kg	0.00
Spiked Amount 50.000	Range 67 - 146		Recovery = 88.40%		
56) D8-Toluene	13.16	98	1829111	47.57 ug/kg	0.00
Spiked Amount 50.000	Range 80 - 123		Recovery = 95.14%		
77) Bromofluorobenzene	15.67	95	726383	44.69 ug/kg	0.00
Spiked Amount 50.000	Range 71 - 126		Recovery = 89.38%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D. d	
8) Trichlorotrifluoroethane	0.00	101		N.D.	
9) acrolein	0.00	56		N.D.	
10) Acetone	0.00	43		N.D. d	
11) 1,1-Dichloroethene	0.00	96		N.D.	
12) 3-Chloropropene	0.00	76		N.D.	
13) Acetonitrile	0.00	41		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D. d	
16) Methylene Chloride	0.00	84		N.D. d	
17) Methyl tert-butyl ether	0.00	73		N.D.	
18) Acrylonitrile	0.00	53		N.D.	
19) T-1,2-Dichloroethene	0.00	96		N.D.	
20) Isopropyl Ether	0.00	45		N.D.	
21) C-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	0.00	43		N.D.	
24) Chloroprene	0.00	53		N.D.	
25) 2-Butanone	0.00	72		N.D. d	
26) Propionitrile	0.00	54		N.D. d	
27) 2,2-Dichloropropane	0.00	77		N.D. d	
28) Methacrylonitrile	0.00	67		N.D. d	
29) Chloroform	0.00	83		N.D.	
31) Dibromofluoromethane	10.90	113	551042	47.48 ug/kg	100
32) Bromochloromethane	0.00	128		N.D.	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	
34) 1,1-Dichloropropene	0.00	75		N.D.	
35) Diethyl ether	0.00	59		N.D.	
36) Methyl Acetate	0.00	74		N.D. d	
37) Cyclohexane	0.00	56		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4006.D Vial: 6
Acq On : 4 Jun 2013 16:09 Operator: kat
Sample : 3f04013-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 5 10:14 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.48	65	603591	44.20 ug/kg	94
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D. d	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D. d	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.16	98	1829111	47.57 ug/kg	99
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.67	95	726383	44.69 ug/kg#	83
79) T-1,4-dichloro-2-butene	0.00	53		N.D. d	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
87) s-Butylbenzene	0.00	105		N.D. d	
88) tert-Butylbenzene	0.00	119		N.D. d	
89) p-Isopropyltoluene	0.00	119		N.D. d	
90) 1,3-Dichlorobenzene	0.00	146		N.D. d	
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) 1,2-Dichlorobenzene	0.00	146		N.D. d	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060413\2F4006.D Vial: 6
Acq On : 4 Jun 2013 16:09 Operator: kat
Sample : 3f04013-blk1 Inst : OVGCMS2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 5 10:14 2013 Quant Results File: S1306004.RES

Quant Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	d	
97) Hexachlorobutadiene	0.00	225		N.D.	d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	d	

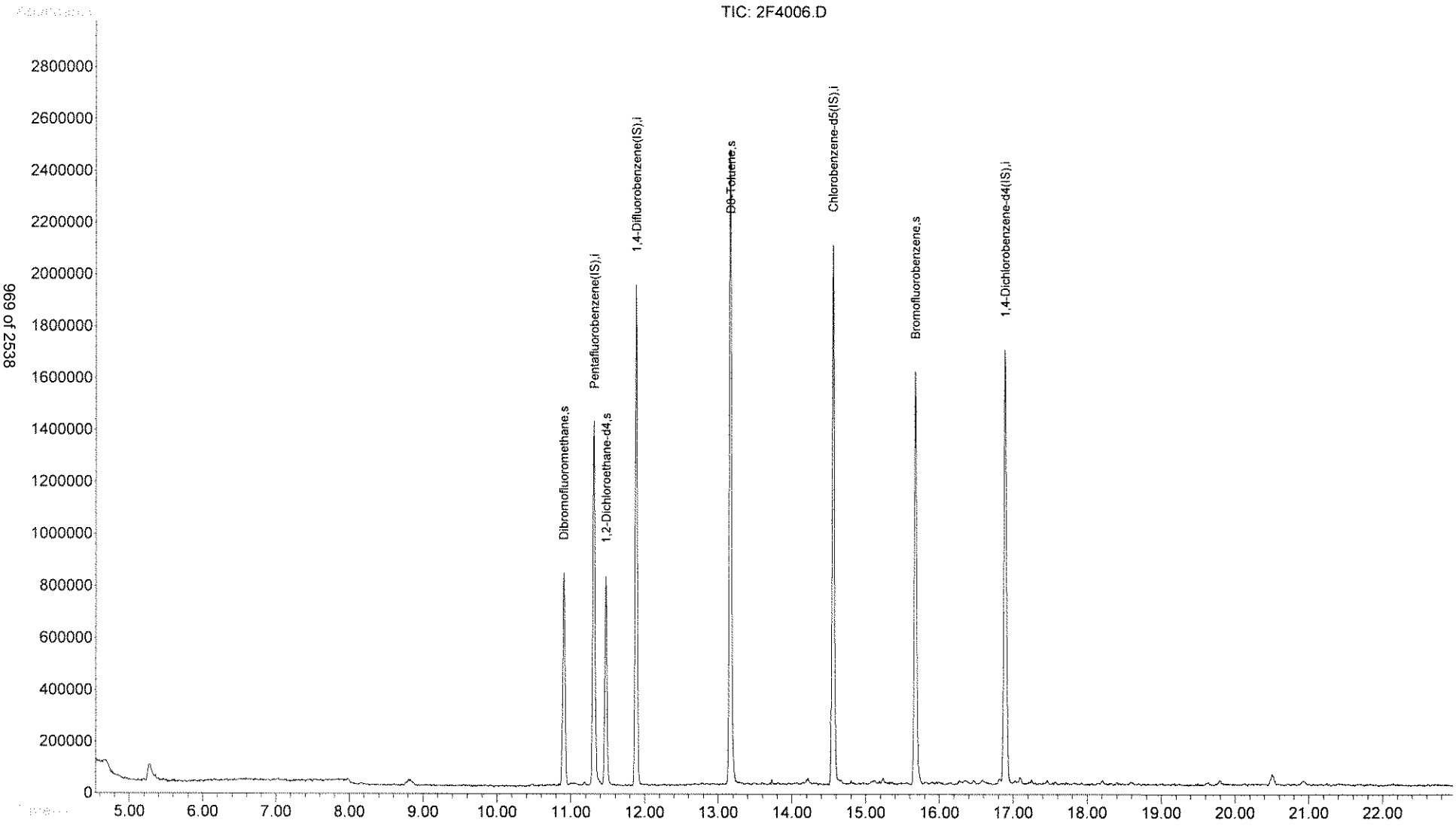
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060413\2F4006.D
Acq On : 4 Jun 2013 16:09
Sample : 3f04013-blk1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 5 10:14 2013

Vial: 6
Operator: kat
Inst : OVGCMS2
Multiplr: 1.00
Quant Results File: S1306004.RES

Method : C:\HPCHEM\1\METHODS\S1306004.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306004
Last Update : Tue Jun 04 14:46:33 2013
Response via : Initial Calibration



DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

KLupp 6/5/13

8260B DOD Extended

1,1,2-Tetrachloroethane Minimum RRT: 1.003 RRT Lower Limit: 0.943 RRT Upper Limit: 1.063

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	14.61	14.56	1.003	PASS
AA24402-CAL6	14.61	14.56	1.003	PASS
AA24402-CAL5	14.61	14.56	1.003	PASS
AA24402-CAL1	14.61	14.56	1.003	PASS
AA24402-CAL2	14.61	14.56	1.003	PASS
AA24402-CAL3	14.6	14.55	1.003	PASS

,1,1-Trichloroethane Minimum RRT: 0.969 RRT Lower Limit: 0.909 RRT Upper Limit: 1.029

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	10.97	11.32	0.969	PASS
AA24402-CAL5	10.97	11.31	0.970	PASS
AA24402-CAL4	10.97	11.32	0.969	PASS
AA24402-CAL3	10.98	11.32	0.970	PASS
AA24402-CAL1	10.97	11.31	0.970	PASS
AA24402-CAL2	10.97	11.31	0.970	PASS

1,1,2,2-Tetrachloroethane Minimum RRT: 1.085 RRT Lower Limit: 1.025 RRT Upper Limit: 1.145

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	15.8	14.56	1.085	PASS
AA24402-CAL5	15.8	14.56	1.085	PASS
AA24402-CAL1	15.8	14.56	1.085	PASS
AA24402-CAL3	15.81	14.55	1.087	PASS
AA24402-CAL6	15.81	14.56	1.086	PASS
AA24402-CAL4	15.81	14.56	1.086	PASS

1,1,2-Trichloroethane Minimum RRT: 0.941 RRT Lower Limit: 0.881 RRT Upper Limit: 1.001

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	13.71	14.55	0.942	PASS
AA24402-CAL5	13.71	14.56	0.942	PASS
AA24402-CAL1	13.7	14.56	0.941	PASS
AA24402-CAL4	13.71	14.56	0.942	PASS
AA24402-CAL6	13.71	14.56	0.942	PASS
AA24402-CAL2	13.71	14.56	0.942	PASS

1,1-Dichloroethane Minimum RRT: 0.867 RRT Lower Limit: 0.807 RRT Upper Limit: 0.927

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	9.82	11.32	0.867	PASS
AA24402-CAL2	9.83	11.31	0.869	PASS
AA24402-CAL5	9.82	11.31	0.868	PASS
AA24402-CAL3	9.83	11.32	0.868	PASS
AA24402-CAL1	9.82	11.31	0.868	PASS
AA24402-CAL6	9.82	11.32	0.867	PASS

1,1-Dichloroethene Minimum RRT: 0.695 RRT Lower Limit: 0.635 RRT Upper Limit: 0.755

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	7.87	11.32	0.695	PASS
AA24402-CAL5	7.89	11.31	0.698	PASS
AA24402-CAL1	7.9	11.31	0.698	PASS
AA24402-CAL2	7.91	11.31	0.699	PASS
AA24402-CAL4	7.9	11.32	0.698	PASS
AA24402-CAL3	7.91	11.32	0.699	PASS

1,1-Dichloropropene Minimum RRT: 0.979 RRT Lower Limit: 0.919 RRT Upper Limit: 1.039

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	11.08	11.31	0.980	PASS

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AA24402-CAL6	11.08	11.32	0.979	PASS
AA24402-CAL1	11.09	11.31	0.981	PASS
AA24402-CAL3	11.08	11.32	0.979	PASS
AA24402-CAL2	11.08	11.31	0.980	PASS
AA24402-CAL4	11.08	11.32	0.979	PASS

1,2,3-Trichlorobenzene Minimum RRT: 1.239 RRT Lower Limit: 1.179 RRT Upper Limit: 1.299

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	20.93	16.89	1.239	PASS
AA24402-CAL1	20.94	16.89	1.240	PASS
AA24402-CAL2	20.93	16.89	1.239	PASS
AA24402-CAL6	20.94	16.89	1.240	PASS
AA24402-CAL5	20.93	16.89	1.239	PASS
AA24402-CAL3	20.93	16.89	1.239	PASS

1,2,3-Trichloropropane Minimum RRT: 1.098 RRT Lower Limit: 1.038 RRT Upper Limit: 1.158

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	16	14.56	1.099	PASS
AA24402-CAL1	15.99	14.56	1.098	PASS
AA24402-CAL5	16	14.56	1.099	PASS
AA24402-CAL6	16	14.56	1.099	PASS
AA24402-CAL3	16	14.55	1.100	PASS
AA24402-CAL2	16	14.56	1.099	PASS

1,2,4-Trichlorobenzene Minimum RRT: 1.172 RRT Lower Limit: 1.112 RRT Upper Limit: 1.232

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	19.8	16.89	1.172	PASS
AA24402-CAL6	19.8	16.89	1.172	PASS
AA24402-CAL4	19.8	16.89	1.172	PASS
AA24402-CAL3	19.79	16.89	1.172	PASS
AA24402-CAL1	19.79	16.89	1.172	PASS
AA24402-CAL5	19.8	16.89	1.172	PASS

1,2,4-Trimethylbenzene Minimum RRT: 0.967 RRT Lower Limit: 0.907 RRT Upper Limit: 1.027

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	16.34	16.89	0.967	PASS
AA24402-CAL1	16.33	16.89	0.967	PASS
AA24402-CAL6	16.34	16.89	0.967	PASS
AA24402-CAL2	16.34	16.89	0.967	PASS
AA24402-CAL5	16.34	16.89	0.967	PASS
AA24402-CAL3	16.34	16.89	0.967	PASS

1,2-Dibromo-3-chloropropane Minimum RRT: 1.101 RRT Lower Limit: 1.041 RRT Upper Limit: 1.161

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	18.62	16.89	1.102	PASS
AA24402-CAL5	18.61	16.89	1.102	PASS
AA24402-CAL2	18.61	16.89	1.102	PASS
AA24402-CAL1	18.6	16.89	1.101	PASS
AA24402-CAL3	18.61	16.89	1.102	PASS
AA24402-CAL4	18.62	16.89	1.102	PASS

1,2-Dibromoethane Minimum RRT: 0.972 RRT Lower Limit: 0.912 RRT Upper Limit: 1.032

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	14.15	14.56	0.972	PASS
AA24402-CAL5	14.15	14.56	0.972	PASS
AA24402-CAL6	14.15	14.56	0.972	PASS
AA24402-CAL3	14.15	14.55	0.973	PASS

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AA24402-CAL2	14.15	14.56	0.972	PASS
AA24402-CAL4	14.15	14.56	0.972	PASS

,2-Dichlorobenzene Minimum RRT: 1.034 RRT Lower Limit: 0.974 RRT Upper Limit: 1.094

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	17.47	16.89	1.034	PASS
AA24402-CAL5	17.47	16.89	1.034	PASS
AA24402-CAL3	17.47	16.89	1.034	PASS
AA24402-CAL1	17.46	16.89	1.034	PASS
AA24402-CAL4	17.47	16.89	1.034	PASS
AA24402-CAL6	17.47	16.89	1.034	PASS

1,2-Dichloroethane Minimum RRT: 0.971 RRT Lower Limit: 0.911 RRT Upper Limit: 1.031

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	11.55	11.89	0.971	PASS
AA24402-CAL1	11.55	11.89	0.971	PASS
AA24402-CAL6	11.55	11.88	0.972	PASS
AA24402-CAL4	11.54	11.89	0.971	PASS
AA24402-CAL2	11.55	11.89	0.971	PASS
AA24402-CAL3	11.54	11.89	0.971	PASS

1,2-Dichloropropane Minimum RRT: 1.044 RRT Lower Limit: 0.984 RRT Upper Limit: 1.104

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	12.41	11.89	1.044	PASS
AA24402-CAL4	12.41	11.89	1.044	PASS
AA24402-CAL2	12.41	11.89	1.044	PASS
AA24402-CAL5	12.41	11.89	1.044	PASS
AA24402-CAL6	12.41	11.88	1.045	PASS
AA24402-CAL3	12.41	11.89	1.044	PASS

1,3,5-Trimethylbenzene Minimum RRT: 0.941 RRT Lower Limit: 0.881 RRT Upper Limit: 1.001

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	15.91	16.89	0.942	PASS
AA24402-CAL1	15.9	16.89	0.941	PASS
AA24402-CAL6	15.91	16.89	0.942	PASS
AA24402-CAL2	15.9	16.89	0.941	PASS
AA24402-CAL5	15.9	16.89	0.941	PASS
AA24402-CAL3	15.9	16.89	0.941	PASS

1,3-Dichlorobenzene Minimum RRT: 0.996 RRT Lower Limit: 0.936 RRT Upper Limit: 1.056

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	16.82	16.89	0.996	PASS
AA24402-CAL4	16.82	16.89	0.996	PASS
AA24402-CAL5	16.82	16.89	0.996	PASS
AA24402-CAL6	16.82	16.89	0.996	PASS
AA24402-CAL2	16.82	16.89	0.996	PASS
AA24402-CAL1	16.82	16.89	0.996	PASS

1,3-Dichloropropane Minimum RRT: 0.959 RRT Lower Limit: 0.899 RRT Upper Limit: 1.019

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	13.97	14.56	0.959	PASS
AA24402-CAL1	13.96	14.56	0.959	PASS
AA24402-CAL5	13.97	14.56	0.959	PASS
AA24402-CAL3	13.97	14.55	0.960	PASS
AA24402-CAL4	13.96	14.56	0.959	PASS
AA24402-CAL6	13.97	14.56	0.959	PASS

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1,4-Dichlorobenzene Minimum RRT: 1.001 RRT Lower Limit: 0.941 RRT Upper Limit: 1.061

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	16.91	16.89	1.001	PASS
AA24402-CAL6	16.92	16.89	1.002	PASS
AA24402-CAL3	16.92	16.89	1.002	PASS
AA24402-CAL5	16.91	16.89	1.001	PASS
AA24402-CAL1	16.91	16.89	1.001	PASS
AA24402-CAL2	16.91	16.89	1.001	PASS

1,4-Dichlorobenzene-d4 Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	16.89	16.89	1.000	PASS
AA24402-CAL5	16.89	16.89	1.000	PASS
AA24402-CAL1	16.89	16.89	1.000	PASS
AA24402-CAL6	16.89	16.89	1.000	PASS
AA24402-CAL7	16.89	16.89	1.000	PASS
AA24402-CAL4	16.89	16.89	1.000	PASS
AA24402-CAL3	16.89	16.89	1.000	PASS

1,4-Difluorobenzene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24402-CAL7	11.89	11.89	1.000	PASS
AA24402-CAL5	11.89	11.89	1.000	PASS
AA24402-CAL6	11.88	11.88	1.000	PASS
AA24402-CAL4	11.89	11.89	1.000	PASS
AA24402-CAL3	11.89	11.89	1.000	PASS
AA24402-CAL2	11.89	11.89	1.000	PASS
AA24402-CAL1	11.89	11.89	1.000	PASS

1,4-Dioxane Minimum RRT: 1.059 RRT Lower Limit: 0.999 RRT Upper Limit: 1.119

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	12.6	11.89	1.060	PASS
AA24402-CAL6	12.61	11.88	1.061	PASS
AA24402-CAL5	12.61	11.89	1.061	PASS
AA24402-CAL4	12.61	11.89	1.061	PASS
AA24402-CAL7	12.61	11.89	1.061	PASS
AA24402-CAL2	12.59	11.89	1.059	PASS
AA24402-CAL1	12.6	11.89	1.060	PASS

2,2-Dichloropropane Minimum RRT: 0.934 RRT Lower Limit: 0.874 RRT Upper Limit: 0.994

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	10.57	11.31	0.935	PASS
AA24402-CAL2	10.58	11.31	0.935	PASS
AA24402-CAL3	10.57	11.32	0.934	PASS
AA24402-CAL6	10.57	11.32	0.934	PASS
AA24402-CAL5	10.57	11.31	0.935	PASS
AA24402-CAL4	10.57	11.32	0.934	PASS

2-Butanone Minimum RRT: 0.973 RRT Lower Limit: 0.913 RRT Upper Limit: 1.033

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	11.04	11.31	0.976	PASS
AA24402-CAL2	11.03	11.31	0.975	PASS
AA24402-CAL5	11.02	11.31	0.974	PASS
AA24402-CAL3	11.02	11.32	0.973	PASS
AA24402-CAL4	11.02	11.32	0.973	PASS
AA24402-CAL7	11.03	11.32	0.974	PASS
AA24402-CAL6	11.03	11.32	0.974	PASS

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2-Chloroethyl Vinyl Ether Minimum RRT: 1.093 RRT Lower Limit: 1.033 RRT Upper Limit: 1.153

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	13	11.89	1.093	PASS
AA24402-CAL5	13	11.89	1.093	PASS
AA24402-CAL3	13.01	11.89	1.094	PASS
AA24402-CAL6	12.99	11.88	1.093	PASS
AA24402-CAL2	12.99	11.89	1.093	PASS
AA24402-CAL1	13.02	11.89	1.095	PASS

2-Chlorotoluene Minimum RRT: 0.946 RRT Lower Limit: 0.886 RRT Upper Limit: 1.006

AA24402-CAL2	15.97	16.89	0.946	PASS
AA24402-CAL4	15.98	16.89	0.946	PASS
AA24402-CAL6	15.98	16.89	0.946	PASS
AA24402-CAL1	15.97	16.89	0.946	PASS
AA24402-CAL5	15.97	16.89	0.946	PASS
AA24402-CAL3	15.98	16.89	0.946	PASS

2-Hexanone Minimum RRT: 1.193 RRT Lower Limit: 1.133 RRT Upper Limit: 1.253

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	14.2	11.89	1.194	PASS
AA24402-CAL7	14.2	11.89	1.194	PASS
AA24402-CAL1	14.2	11.89	1.194	PASS
AA24402-CAL6	14.2	11.88	1.195	PASS
AA24402-CAL2	14.2	11.89	1.194	PASS
AA24402-CAL5	14.2	11.89	1.194	PASS
AA24402-CAL3	14.19	11.89	1.193	PASS

3-Chloropropene Minimum RRT: 0.761 RRT Lower Limit: 0.701 RRT Upper Limit: 0.821

AA24402-CAL7	8.63	11.32	0.762	PASS
AA24402-CAL2	8.63	11.31	0.763	PASS
AA24402-CAL1	8.64	11.31	0.764	PASS
AA24402-CAL5	8.63	11.31	0.763	PASS
AA24402-CAL6	8.62	11.32	0.761	PASS
AA24402-CAL4	8.63	11.32	0.762	PASS
AA24402-CAL3	8.64	11.32	0.763	PASS

4-Bromofluorobenzene Minimum RRT: 1.076 RRT Lower Limit: 1.016 RRT Upper Limit: 1.136

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	15.68	14.56	1.077	PASS
AA24402-CAL6	15.68	14.56	1.077	PASS
AA24402-CAL4	15.67	14.56	1.076	PASS
AA24402-CAL5	15.68	14.56	1.077	PASS
AA24402-CAL1	15.68	14.56	1.077	PASS
AA24402-CAL3	15.67	14.55	1.077	PASS

4-Chlorotoluene Minimum RRT: 0.956 RRT Lower Limit: 0.896 RRT Upper Limit: 1.016

AA24402-CAL2	16.14	16.89	0.956	PASS
AA24402-CAL5	16.14	16.89	0.956	PASS
AA24402-CAL3	16.14	16.89	0.956	PASS
AA24402-CAL6	16.14	16.89	0.956	PASS
AA24402-CAL1	16.14	16.89	0.956	PASS
AA24402-CAL4	16.14	16.89	0.956	PASS

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4-isopropyltoluene Minimum RRT: 0.982 RRT Lower Limit: 0.922 RRT Upper Limit: 1.042

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	16.59	16.89	0.982	PASS
AA24402-CAL5	16.59	16.89	0.982	PASS
AA24402-CAL2	16.59	16.89	0.982	PASS
AA24402-CAL3	16.59	16.89	0.982	PASS
AA24402-CAL1	16.6	16.89	0.983	PASS
AA24402-CAL6	16.59	16.89	0.982	PASS

4-Methyl-2-pentanone Minimum RRT: 1.135 RRT Lower Limit: 1.075 RRT Upper Limit: 1.195

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	13.49	11.89	1.135	PASS
AA24402-CAL5	13.49	11.89	1.135	PASS
AA24402-CAL4	13.49	11.89	1.135	PASS
AA24402-CAL7	13.49	11.89	1.135	PASS
AA24402-CAL1	13.5	11.89	1.135	PASS
AA24402-CAL6	13.5	11.88	1.136	PASS
AA24402-CAL2	13.49	11.89	1.135	PASS

Acetone Minimum RRT: 0.783 RRT Lower Limit: 0.723 RRT Upper Limit: 0.843

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	8.87	11.32	0.784	PASS
AA24402-CAL7	8.87	11.32	0.784	PASS
AA24402-CAL4	8.86	11.32	0.783	PASS
AA24402-CAL1	8.86	11.31	0.783	PASS
AA24402-CAL5	8.87	11.31	0.784	PASS
AA24402-CAL3	8.86	11.32	0.783	PASS
AA24402-CAL2	8.87	11.31	0.784	PASS

Acetonitrile Minimum RRT: 0.840 RRT Lower Limit: 0.780 RRT Upper Limit: 0.900

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	9.53	11.32	0.842	PASS
AA24402-CAL2	9.51	11.31	0.841	PASS
AA24402-CAL3	9.52	11.32	0.841	PASS
AA24402-CAL4	9.51	11.32	0.840	PASS
AA24402-CAL1	9.52	11.31	0.842	PASS
AA24402-CAL7	9.53	11.32	0.842	PASS
AA24402-CAL5	9.52	11.31	0.842	PASS

Acrolein Minimum RRT: 0.746 RRT Lower Limit: 0.686 RRT Upper Limit: 0.806

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	8.44	11.32	0.746	PASS
AA24402-CAL2	8.44	11.31	0.746	PASS
AA24402-CAL3	8.44	11.32	0.746	PASS
AA24402-CAL1	8.44	11.31	0.746	PASS
AA24402-CAL5	8.44	11.31	0.746	PASS
AA24402-CAL6	8.45	11.32	0.746	PASS

Acrylonitrile Minimum RRT: 0.874 RRT Lower Limit: 0.814 RRT Upper Limit: 0.934

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	9.89	11.31	0.874	PASS
AA24402-CAL3	9.89	11.32	0.874	PASS
AA24402-CAL5	9.89	11.31	0.874	PASS
AA24402-CAL4	9.89	11.32	0.874	PASS
AA24402-CAL6	9.9	11.32	0.875	PASS
AA24402-CAL1	9.89	11.31	0.874	PASS

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Benzene — Minimum RRT: 0.955 — RRT Lower Limit: 0.895 — RRT Upper Limit: 1.015

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	11.35	11.89	0.955	PASS
AA24402-CAL2	11.35	11.89	0.955	PASS
AA24402-CAL5	11.35	11.89	0.955	PASS
AA24402-CAL1	11.35	11.89	0.955	PASS
AA24402-CAL6	11.35	11.88	0.955	PASS
AA24402-CAL3	11.35	11.89	0.955	PASS

Bromobenzene — Minimum RRT: 0.937 — RRT Lower Limit: 0.877 — RRT Upper Limit: 0.997

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	15.83	16.89	0.937	PASS
AA24402-CAL5	15.83	16.89	0.937	PASS
AA24402-CAL3	15.83	16.89	0.937	PASS
AA24402-CAL2	15.83	16.89	0.937	PASS
AA24402-CAL1	15.83	16.89	0.937	PASS
AA24402-CAL6	15.83	16.89	0.937	PASS

Bromochloromethane — Minimum RRT: 0.943 — RRT Lower Limit: 0.883 — RRT Upper Limit: 1.003

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	10.67	11.32	0.943	PASS
AA24402-CAL2	10.67	11.31	0.943	PASS
AA24402-CAL5	10.67	11.31	0.943	PASS
AA24402-CAL4	10.67	11.32	0.943	PASS
AA24402-CAL1	10.68	11.31	0.944	PASS
AA24402-CAL3	10.67	11.32	0.943	PASS

Bromodichloromethane — Minimum RRT: 1.045 — RRT Lower Limit: 0.985 — RRT Upper Limit: 1.105

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	12.43	11.89	1.045	PASS
AA24402-CAL1	12.44	11.89	1.046	PASS
AA24402-CAL4	12.43	11.89	1.045	PASS
AA24402-CAL5	12.43	11.89	1.045	PASS
AA24402-CAL2	12.43	11.89	1.045	PASS
AA24402-CAL6	12.43	11.88	1.046	PASS

Bromoform — Minimum RRT: 1.045 — RRT Lower Limit: 0.985 — RRT Upper Limit: 1.105

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	15.21	14.56	1.045	PASS
AA24402-CAL6	15.22	14.56	1.045	PASS
AA24402-CAL1	15.21	14.56	1.045	PASS
AA24402-CAL5	15.22	14.56	1.045	PASS
AA24402-CAL4	15.21	14.56	1.045	PASS
AA24402-CAL3	15.21	14.55	1.045	PASS

Bromomethane — Minimum RRT: 0.565 — RRT Lower Limit: 0.505 — RRT Upper Limit: 0.625

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	6.41	11.31	0.567	PASS
AA24402-CAL3	6.41	11.32	0.566	PASS
AA24402-CAL1	6.41	11.31	0.567	PASS
AA24402-CAL4	6.4	11.32	0.565	PASS
AA24402-CAL2	6.41	11.31	0.567	PASS
AA24402-CAL6	6.4	11.32	0.565	PASS

Carbon disulfide — Minimum RRT: 0.702 — RRT Lower Limit: 0.642 — RRT Upper Limit: 0.762

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	7.98	11.32	0.705	PASS

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24402-CAL2	7.99	11.31	0.706	PASS
24402-CAL7	7.96	11.32	0.703	PASS
24402-CAL1	7.99	11.31	0.706	PASS
24402-CAL6	7.95	11.32	0.702	PASS
24402-CAL5	7.98	11.31	0.706	PASS
24402-CAL4	7.98	11.32	0.705	PASS

bon Tetrachloride — Minimum RRT: 0.917 — RRT Lower Limit: 0.857 — RRT Upper Limit: 0.977

Analyte	RT	ISTD RT	RRT	
A24402-CAL3	10.9	11.89	0.917	PASS
A24402-CAL5	10.9	11.89	0.917	PASS
A24402-CAL1	10.9	11.89	0.917	PASS
A24402-CAL2	10.9	11.89	0.917	PASS
A24402-CAL6	10.89	11.88	0.917	PASS
A24402-CAL4	10.9	11.89	0.917	PASS

hlorobenzene — Minimum RRT: 1.001 — RRT Lower Limit: 0.941 — RRT Upper Limit: 1.061

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	14.57	14.56	1.001	PASS
AA24402-CAL4	14.58	14.56	1.001	PASS
AA24402-CAL3	14.58	14.55	1.002	PASS
AA24402-CAL6	14.58	14.56	1.001	PASS
AA24402-CAL2	14.57	14.56	1.001	PASS
AA24402-CAL5	14.58	14.56	1.001	PASS

Chlorobenzene-d5 — Minimum RRT: 1.000 — RRT Lower Limit: 0.940 — RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	14.55	14.55	1.000	PASS
AA24402-CAL2	14.56	14.56	1.000	PASS
AA24402-CAL4	14.56	14.56	1.000	PASS
AA24402-CAL5	14.56	14.56	1.000	PASS
AA24402-CAL1	14.56	14.56	1.000	PASS
AA24402-CAL6	14.56	14.56	1.000	PASS
AA24402-CAL7	14.56	14.56	1.000	PASS

Chloroethane — Minimum RRT: 0.587 — RRT Lower Limit: 0.527 — RRT Upper Limit: 0.647

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	6.64	11.32	0.587	PASS
AA24402-CAL2	6.7	11.31	0.592	PASS
AA24402-CAL1	6.69	11.31	0.592	PASS
AA24402-CAL5	6.65	11.32	0.588	PASS
AA24402-CAL4	6.65	11.32	0.587	PASS
AA24402-CAL3	6.66	11.32	0.588	PASS

Chloroform — Minimum RRT: 0.946 — RRT Lower Limit: 0.886 — RRT Upper Limit: 1.006

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	10.71	11.32	0.946	PASS
AA24402-CAL3	10.71	11.32	0.946	PASS
AA24402-CAL1	10.71	11.31	0.947	PASS
AA24402-CAL4	10.71	11.32	0.946	PASS
AA24402-CAL2	10.71	11.31	0.947	PASS
AA24402-CAL5	10.71	11.31	0.947	PASS

Chloromethane — Minimum RRT: 0.475 — RRT Lower Limit: 0.415 — RRT Upper Limit: 0.535

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	5.39	11.32	0.476	PASS
AA24402-CAL2	5.39	11.31	0.477	PASS

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AA24402-CAL6	5.38	11.32	0.475	PASS
AA24402-CAL5	5.38	11.31	0.476	PASS
AA24402-CAL4	5.38	11.32	0.475	PASS
AA24402-CAL1	5.39	11.31	0.477	PASS

Chloroprene Minimum RRT: 0.864 RRT Lower Limit: 0.804 RRT Upper Limit: 0.924

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	9.79	11.31	0.866	PASS
AA24402-CAL7	9.78	11.32	0.864	PASS
AA24402-CAL3	9.79	11.32	0.865	PASS
AA24402-CAL4	9.78	11.32	0.864	PASS
AA24402-CAL1	9.79	11.31	0.866	PASS
AA24402-CAL2	9.79	11.31	0.866	PASS
AA24402-CAL6	9.78	11.32	0.864	PASS

cis-1,2-Dichloroethene Minimum RRT: 0.922 RRT Lower Limit: 0.862 RRT Upper Limit: 0.982

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	10.45	11.32	0.923	PASS
AA24402-CAL5	10.44	11.31	0.923	PASS
AA24402-CAL6	10.44	11.32	0.922	PASS
AA24402-CAL4	10.44	11.32	0.922	PASS
AA24402-CAL1	10.44	11.31	0.923	PASS
AA24402-CAL2	10.44	11.31	0.923	PASS

cis-1,3-Dichloropropene Minimum RRT: 1.093 RRT Lower Limit: 1.033 RRT Upper Limit: 1.153

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	13	11.89	1.093	PASS
AA24402-CAL2	13	11.89	1.093	PASS
AA24402-CAL6	12.99	11.88	1.093	PASS
AA24402-CAL4	12.99	11.89	1.093	PASS
AA24402-CAL5	13	11.89	1.093	PASS
AA24402-CAL3	12.99	11.89	1.093	PASS

Cyclohexane Minimum RRT: 0.943 RRT Lower Limit: 0.883 RRT Upper Limit: 1.003

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	10.68	11.32	0.943	PASS
AA24402-CAL6	10.68	11.32	0.943	PASS
AA24402-CAL1	10.68	11.31	0.944	PASS
AA24402-CAL3	10.69	11.32	0.944	PASS
AA24402-CAL2	10.69	11.31	0.945	PASS
AA24402-CAL5	10.68	11.31	0.944	PASS

Dibromochloromethane Minimum RRT: 0.954 RRT Lower Limit: 0.894 RRT Upper Limit: 1.014

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	13.89	14.56	0.954	PASS
AA24402-CAL3	13.9	14.55	0.955	PASS
AA24402-CAL4	13.89	14.56	0.954	PASS
AA24402-CAL2	13.9	14.56	0.955	PASS
AA24402-CAL1	13.89	14.56	0.954	PASS
AA24402-CAL6	13.89	14.56	0.954	PASS

Dibromofluoromethane Minimum RRT: 0.964 RRT Lower Limit: 0.904 RRT Upper Limit: 1.024

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	10.91	11.31	0.965	PASS
AA24402-CAL4	10.91	11.32	0.964	PASS
AA24402-CAL2	10.91	11.31	0.965	PASS
AA24402-CAL6	10.91	11.32	0.964	PASS

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AA24402-CAL3	10.91	11.32	0.964	PASS
AA24402-CAL5	10.91	11.31	0.965	PASS

Dibromomethane **Minimum RRT: 1.036** **RRT Lower Limit: 0.976** **RRT Upper Limit: 1.096**

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	12.32	11.89	1.036	PASS
AA24402-CAL6	12.32	11.88	1.037	PASS
AA24402-CAL3	12.33	11.89	1.037	PASS
AA24402-CAL2	12.33	11.89	1.037	PASS
AA24402-CAL5	12.32	11.89	1.036	PASS
AA24402-CAL4	12.32	11.89	1.036	PASS

Dichlorodifluoromethane **Minimum RRT: 0.427** **RRT Lower Limit: 0.367** **RRT Upper Limit: 0.487**

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	4.84	11.31	0.428	PASS
AA24402-CAL4	4.83	11.32	0.427	PASS
AA24402-CAL5	4.83	11.31	0.427	PASS
AA24402-CAL3	4.84	11.32	0.428	PASS
AA24402-CAL6	4.91	11.32	0.434	PASS
AA24402-CAL2	4.84	11.31	0.428	PASS

Diethyl ether **Minimum RRT: 0.667** **RRT Lower Limit: 0.607** **RRT Upper Limit: 0.727**

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	7.54	11.31	0.667	PASS
AA24402-CAL4	7.55	11.32	0.667	PASS
AA24402-CAL1	7.54	11.31	0.667	PASS
AA24402-CAL5	7.55	11.31	0.668	PASS
AA24402-CAL3	7.55	11.32	0.667	PASS
AA24402-CAL6	7.56	11.32	0.668	PASS

Ethyl Methacrylate **Minimum RRT: 0.933** **RRT Lower Limit: 0.873** **RRT Upper Limit: 0.993**

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	13.6	14.56	0.934	PASS
AA24402-CAL6	13.6	14.56	0.934	PASS
AA24402-CAL7	13.6	14.56	0.934	PASS
AA24402-CAL1	13.59	14.56	0.933	PASS
AA24402-CAL3	13.59	14.55	0.934	PASS
AA24402-CAL2	13.59	14.56	0.933	PASS
AA24402-CAL4	13.6	14.56	0.934	PASS

Ethylbenzene **Minimum RRT: 0.999** **RRT Lower Limit: 0.939** **RRT Upper Limit: 1.059**

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	14.54	14.56	0.999	PASS
AA24402-CAL6	14.54	14.56	0.999	PASS
AA24402-CAL5	14.55	14.56	0.999	PASS
AA24402-CAL1	14.54	14.56	0.999	PASS
AA24402-CAL2	14.54	14.56	0.999	PASS
AA24402-CAL3	14.54	14.55	0.999	PASS

Freon 113 **Minimum RRT: 0.700** **RRT Lower Limit: 0.640** **RRT Upper Limit: 0.760**

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	7.96	11.31	0.704	PASS
AA24402-CAL6	7.92	11.32	0.700	PASS
AA24402-CAL5	7.93	11.31	0.701	PASS
AA24402-CAL4	7.94	11.32	0.701	PASS
AA24402-CAL2	7.95	11.31	0.703	PASS
AA24402-CAL3	7.95	11.32	0.702	PASS

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Hexachlorobutadiene — Minimum RRT: 1.162 — RRT Lower Limit: 1.102 — RRT Upper Limit: 1.222

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	19.64	16.89	1.163	PASS
AA24402-CAL2	19.64	16.89	1.163	PASS
AA24402-CAL4	19.63	16.89	1.162	PASS
AA24402-CAL6	19.64	16.89	1.163	PASS
AA24402-CAL5	19.64	16.89	1.163	PASS
AA24402-CAL3	19.63	16.89	1.162	PASS

Iodomethane — Minimum RRT: 0.719 — RRT Lower Limit: 0.659 — RRT Upper Limit: 0.779

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	8.17	11.31	0.722	PASS
AA24402-CAL1	8.16	11.31	0.721	PASS
AA24402-CAL4	8.16	11.32	0.721	PASS
AA24402-CAL7	8.15	11.32	0.720	PASS
AA24402-CAL5	8.15	11.31	0.721	PASS
AA24402-CAL3	8.16	11.32	0.721	PASS
AA24402-CAL6	8.14	11.32	0.719	PASS

Isobutyl alcohol — Minimum RRT: 0.957 — RRT Lower Limit: 0.897 — RRT Upper Limit: 1.017

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	11.42	11.89	0.960	PASS
AA24402-CAL4	11.41	11.89	0.960	PASS
AA24402-CAL1	11.38	11.89	0.957	PASS
AA24402-CAL2	11.41	11.89	0.960	PASS
AA24402-CAL7	11.43	11.89	0.961	PASS
AA24402-CAL6	11.44	11.88	0.963	PASS
AA24402-CAL3	11.41	11.89	0.960	PASS

Isopropyl Ether — Minimum RRT: 0.848 — RRT Lower Limit: 0.788 — RRT Upper Limit: 0.908

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	9.6	11.32	0.848	PASS
AA24402-CAL2	9.6	11.31	0.849	PASS
AA24402-CAL6	9.6	11.32	0.848	PASS
AA24402-CAL1	9.6	11.31	0.849	PASS
AA24402-CAL5	9.59	11.31	0.848	PASS
AA24402-CAL4	9.6	11.32	0.848	PASS

Isopropylbenzene — Minimum RRT: 1.054 — RRT Lower Limit: 0.994 — RRT Upper Limit: 1.114

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	15.34	14.56	1.054	PASS
AA24402-CAL4	15.34	14.56	1.054	PASS
AA24402-CAL3	15.35	14.55	1.055	PASS
AA24402-CAL2	15.34	14.56	1.054	PASS
AA24402-CAL5	15.34	14.56	1.054	PASS
AA24402-CAL1	15.34	14.56	1.054	PASS

m,p-Xylenes — Minimum RRT: 1.007 — RRT Lower Limit: 0.947 — RRT Upper Limit: 1.067

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	14.66	14.56	1.007	PASS
AA24402-CAL2	14.66	14.56	1.007	PASS
AA24402-CAL4	14.66	14.56	1.007	PASS
AA24402-CAL5	14.66	14.56	1.007	PASS
AA24402-CAL1	14.66	14.56	1.007	PASS
AA24402-CAL3	14.66	14.55	1.008	PASS

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Methacrylonitrile Minimum RRT: 1.004 RRT Lower Limit: 0.944 RRT Upper Limit: 1.064

AA24402-CAL7	11.39	11.32	1.006	PASS
AA24402-CAL1	11.38	11.31	1.006	PASS
AA24402-CAL2	11.37	11.31	1.005	PASS
AA24402-CAL3	11.37	11.32	1.004	PASS
AA24402-CAL5	11.38	11.31	1.006	PASS
AA24402-CAL4	11.37	11.32	1.004	PASS
AA24402-CAL6	11.38	11.32	1.005	PASS

Methyl acetate Minimum RRT: 0.796 RRT Lower Limit: 0.736 RRT Upper Limit: 0.856

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	9.01	11.31	0.797	PASS
AA24402-CAL1	9	11.31	0.796	PASS
AA24402-CAL2	9	11.31	0.796	PASS
AA24402-CAL4	9.01	11.32	0.796	PASS
AA24402-CAL3	9.01	11.32	0.796	PASS
AA24402-CAL6	9.01	11.32	0.796	PASS

Methyl cyclohexane Minimum RRT: 1.002 RRT Lower Limit: 0.942 RRT Upper Limit: 1.062

AA24402-CAL4	11.91	11.89	1.002	PASS
AA24402-CAL3	11.91	11.89	1.002	PASS
AA24402-CAL6	11.91	11.88	1.003	PASS
AA24402-CAL5	11.91	11.89	1.002	PASS
AA24402-CAL1	11.91	11.89	1.002	PASS
AA24402-CAL2	11.91	11.89	1.002	PASS

Methyl Methacrylate Minimum RRT: 1.050 RRT Lower Limit: 0.990 RRT Upper Limit: 1.110

Analyte	RT	ISTD RT	RRT	
AA24402-CAL7	12.49	11.89	1.050	PASS
AA24402-CAL4	12.49	11.89	1.050	PASS
AA24402-CAL1	12.49	11.89	1.050	PASS
AA24402-CAL5	12.49	11.89	1.050	PASS
AA24402-CAL2	12.49	11.89	1.050	PASS
AA24402-CAL6	12.49	11.88	1.051	PASS
AA24402-CAL3	12.49	11.89	1.050	PASS

Methylene Chloride Minimum RRT: 0.776 RRT Lower Limit: 0.716 RRT Upper Limit: 0.836

AA24402-CAL4	8.79	11.32	0.777	PASS
AA24402-CAL3	8.79	11.32	0.777	PASS
AA24402-CAL6	8.78	11.32	0.776	PASS
AA24402-CAL5	8.79	11.31	0.777	PASS
AA24402-CAL2	8.8	11.31	0.778	PASS
AA24402-CAL1	8.79	11.31	0.777	PASS

Methyl-tert-Butyl Ether Minimum RRT: 0.807 RRT Lower Limit: 0.747 RRT Upper Limit: 0.867

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	9.14	11.32	0.807	PASS
AA24402-CAL6	9.15	11.32	0.808	PASS
AA24402-CAL3	9.14	11.32	0.807	PASS
AA24402-CAL1	9.14	11.31	0.808	PASS
AA24402-CAL5	9.14	11.31	0.808	PASS
AA24402-CAL2	9.15	11.31	0.809	PASS

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Naphthalene Minimum RRT: 1.214 RRT Lower Limit: 1.154 RRT Upper Limit: 1.274

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	20.51	16.89	1.214	PASS
AA24402-CAL2	20.51	16.89	1.214	PASS
AA24402-CAL3	20.51	16.89	1.214	PASS
AA24402-CAL4	20.51	16.89	1.214	PASS
AA24402-CAL1	20.51	16.89	1.214	PASS
AA24402-CAL5	20.51	16.89	1.214	PASS

n-Butyl Benzene Minimum RRT: 1.012 RRT Lower Limit: 0.952 RRT Upper Limit: 1.072

AA24402-CAL4	17.1	16.89	1.012	PASS
AA24402-CAL1	17.1	16.89	1.012	PASS
AA24402-CAL5	17.1	16.89	1.012	PASS
AA24402-CAL2	17.1	16.89	1.012	PASS
AA24402-CAL3	17.1	16.89	1.012	PASS
AA24402-CAL6	17.1	16.89	1.012	PASS

n-Propyl Benzene Minimum RRT: 1.082 RRT Lower Limit: 1.022 RRT Upper Limit: 1.142

AA24402-CAL6	15.75	14.56	1.082	PASS
AA24402-CAL4	15.75	14.56	1.082	PASS
AA24402-CAL1	15.75	14.56	1.082	PASS
AA24402-CAL3	15.75	14.55	1.082	PASS
AA24402-CAL5	15.75	14.56	1.082	PASS
AA24402-CAL2	15.75	14.56	1.082	PASS

o-Xylene Minimum RRT: 1.035 RRT Lower Limit: 0.975 RRT Upper Limit: 1.095

AA24402-CAL2	15.07	14.56	1.035	PASS
AA24402-CAL4	15.07	14.56	1.035	PASS
AA24402-CAL5	15.08	14.56	1.036	PASS
AA24402-CAL1	15.07	14.56	1.035	PASS
AA24402-CAL6	15.07	14.56	1.035	PASS
AA24402-CAL3	15.07	14.55	1.036	PASS

Pentafluorobenzene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	11.31	11.31	1.000	PASS
AA24402-CAL5	11.31	11.31	1.000	PASS
AA24402-CAL6	11.32	11.32	1.000	PASS
AA24402-CAL3	11.32	11.32	1.000	PASS
AA24402-CAL7	11.32	11.32	1.000	PASS
AA24402-CAL4	11.32	11.32	1.000	PASS
AA24402-CAL1	11.31	11.31	1.000	PASS

Propionitrile Minimum RRT: 1.004 RRT Lower Limit: 0.944 RRT Upper Limit: 1.064

AA24402-CAL7	11.38	11.32	1.005	PASS
AA24402-CAL1	11.36	11.31	1.004	PASS
AA24402-CAL5	11.36	11.31	1.004	PASS
AA24402-CAL2	11.36	11.31	1.004	PASS
AA24402-CAL3	11.36	11.32	1.004	PASS
AA24402-CAL4	11.36	11.32	1.004	PASS
AA24402-CAL6	11.37	11.32	1.004	PASS

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ec-Butylbenzene — Minimum RRT: 0.975 — RRT Lower Limit: 0.915 — RRT Upper Limit: 1.035

Analyte	RT	ISTD RT	RRT	
AA24402-CAL5	16.47	16.89	0.975	PASS
AA24402-CAL1	16.47	16.89	0.975	PASS
AA24402-CAL2	16.47	16.89	0.975	PASS
AA24402-CAL6	16.47	16.89	0.975	PASS
AA24402-CAL3	16.47	16.89	0.975	PASS
AA24402-CAL4	16.47	16.89	0.975	PASS

Styrene — Minimum RRT: 1.038 — RRT Lower Limit: 0.978 — RRT Upper Limit: 1.098

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	15.11	14.56	1.038	PASS
AA24402-CAL2	15.11	14.56	1.038	PASS
AA24402-CAL5	15.12	14.56	1.038	PASS
AA24402-CAL6	15.12	14.56	1.038	PASS
AA24402-CAL4	15.12	14.56	1.038	PASS
AA24402-CAL3	15.11	14.55	1.038	PASS

tert-Butylbenzene — Minimum RRT: 0.964 — RRT Lower Limit: 0.904 — RRT Upper Limit: 1.024

Analyte	RT	ISTD RT	RRT	
AA24402-CAL2	16.28	16.89	0.964	PASS
AA24402-CAL1	16.28	16.89	0.964	PASS
AA24402-CAL4	16.28	16.89	0.964	PASS
AA24402-CAL5	16.28	16.89	0.964	PASS
AA24402-CAL6	16.28	16.89	0.964	PASS
AA24402-CAL3	16.28	16.89	0.964	PASS

Tetrachloroethene — Minimum RRT: 0.932 — RRT Lower Limit: 0.872 — RRT Upper Limit: 0.992

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	13.57	14.56	0.932	PASS
AA24402-CAL3	13.57	14.55	0.933	PASS
AA24402-CAL2	13.57	14.56	0.932	PASS
AA24402-CAL1	13.57	14.56	0.932	PASS
AA24402-CAL5	13.57	14.56	0.932	PASS
AA24402-CAL6	13.57	14.56	0.932	PASS

Toluene — Minimum RRT: 0.907 — RRT Lower Limit: 0.847 — RRT Upper Limit: 0.967

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	13.21	14.56	0.907	PASS
AA24402-CAL5	13.22	14.56	0.908	PASS
AA24402-CAL2	13.22	14.56	0.908	PASS
AA24402-CAL3	13.22	14.55	0.909	PASS
AA24402-CAL1	13.21	14.56	0.907	PASS
AA24402-CAL6	13.21	14.56	0.907	PASS

Toluene-d8 — Minimum RRT: 1.107 — RRT Lower Limit: 1.047 — RRT Upper Limit: 1.167

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	13.17	11.89	1.108	PASS
AA24402-CAL5	13.17	11.89	1.108	PASS
AA24402-CAL6	13.16	11.88	1.108	PASS
AA24402-CAL2	13.17	11.89	1.108	PASS
AA24402-CAL3	13.17	11.89	1.108	PASS
AA24402-CAL4	13.16	11.89	1.107	PASS

trans-1,2-Dichloroethene — Minimum RRT: 0.796 — RRT Lower Limit: 0.736 — RRT Upper Limit: 0.856

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	9.01	11.32	0.796	PASS

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AA24402-CAL3	9.02	11.32	0.797	PASS
AA24402-CAL4	9.02	11.32	0.797	PASS
AA24402-CAL5	9.01	11.31	0.797	PASS
AA24402-CAL1	9.02	11.31	0.798	PASS
AA24402-CAL2	9.02	11.31	0.798	PASS

ans-1,3-Dichloropropene Minimum RRT: 0.931 RRT Lower Limit: 0.871 RRT Upper Limit: 0.991

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	13.55	14.56	0.931	PASS
AA24402-CAL5	13.55	14.56	0.931	PASS
AA24402-CAL2	13.55	14.56	0.931	PASS
AA24402-CAL3	13.55	14.55	0.931	PASS
AA24402-CAL1	13.55	14.56	0.931	PASS
AA24402-CAL6	13.55	14.56	0.931	PASS

rans-1,4-Dichloro-2-butene Minimum RRT: 1.098 RRT Lower Limit: 1.038 RRT Upper Limit: 1.158

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	15.99	14.56	1.098	PASS
AA24402-CAL2	15.99	14.56	1.098	PASS
AA24402-CAL4	15.99	14.56	1.098	PASS
AA24402-CAL7	16	14.56	1.099	PASS
AA24402-CAL5	15.99	14.56	1.098	PASS
AA24402-CAL3	15.99	14.55	1.099	PASS
AA24402-CAL6	15.99	14.56	1.098	PASS

Trichloroethene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24402-CAL1	11.89	11.89	1.000	PASS
AA24402-CAL6	11.89	11.88	1.001	PASS
AA24402-CAL4	11.89	11.89	1.000	PASS
AA24402-CAL3	11.89	11.89	1.000	PASS
AA24402-CAL5	11.89	11.89	1.000	PASS
AA24402-CAL2	11.9	11.89	1.001	PASS

Trichlorofluoromethane Minimum RRT: 0.609 RRT Lower Limit: 0.549 RRT Upper Limit: 0.669

Analyte	RT	ISTD RT	RRT	
AA24402-CAL6	6.89	11.32	0.609	PASS
AA24402-CAL5	6.93	11.31	0.613	PASS
AA24402-CAL2	6.99	11.31	0.618	PASS
AA24402-CAL4	6.93	11.32	0.612	PASS
AA24402-CAL1	6.98	11.31	0.617	PASS
AA24402-CAL3	6.96	11.32	0.615	PASS

Vinyl acetate Minimum RRT: 0.888 RRT Lower Limit: 0.828 RRT Upper Limit: 0.948

Analyte	RT	ISTD RT	RRT	
AA24402-CAL3	10.06	11.32	0.889	PASS
AA24402-CAL5	10.05	11.31	0.889	PASS
AA24402-CAL6	10.06	11.32	0.889	PASS
AA24402-CAL4	10.05	11.32	0.888	PASS
AA24402-CAL7	10.06	11.32	0.889	PASS
AA24402-CAL2	10.06	11.31	0.889	PASS
AA24402-CAL1	10.05	11.31	0.889	PASS

Vinyl chloride Minimum RRT: 0.496 RRT Lower Limit: 0.436 RRT Upper Limit: 0.556

Analyte	RT	ISTD RT	RRT	
AA24402-CAL4	5.61	11.32	0.496	PASS
AA24402-CAL6	5.61	11.32	0.496	PASS

DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

8260B DOD Extended

A24402-CAL2	5.62	11.31	0.497	PASS
A24402-CAL1	5.61	11.31	0.496	PASS
A24402-CAL5	5.61	11.31	0.496	PASS
A24402-CAL3	5.62	11.32	0.496	PASS

	CVS RT	-0.5	0.5
PENTAFLUOROBENZENE	11.48	10.98	11.98
1,4-DIFLUOROBENZENE	12.06	11.56	12.56
CHLOROBENZENE	14.75	14.25	15.25
I,4-DICHLOROBENZENE	17.14	16.64	17.64

Internal Standard	CVS Response	50%	200%
Pentafluorobenzene	1787640	893820	3575280
1,4-Difluorobenzene	2856125	1428063	5712250
Chlorobenzene	2602095	1301048	5204190
1,4-Dichlorobenzene	1180728	590364	2361456

1606143

MID: 0130606033
CAL# 1306033
SEQ# AA24527

GC/MS LOGBOOK
Volatiles
EPA Method 624, SW-846 Method 8260
SW-846 5030B, SW-846 5035

H2O curve

Tune Start Date/Time: 6/13/13 0936
Tune End Date/Time: 6/13/13 2136
Preventive Maintenance: purge bake
Method: 8260/624 curve
Workgroup:
SEQ AA24527

Surrogate ID: A3C0381
Internal ID: A3F0070/71
LCS Acrolein 2°: A3E0459/1
LCS 8260 2°: A3F0029/1
Other Standard: A3E0210/1

8260 Mix: A3F0007/1 (100) + A3F0410/3 (80)
8260 Add: A3E0196/1
8260 Ac/Ac: A3E0490/1
8260 Gases: A3F0003/1 + A3F0004 (80)
Instrument #: 1, 2, 3, or 4

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS	
3FH001	0936	BFB 50NG	1ul/5mL	1	NA	NA	KT	AA24527 - TUN1	✓	
3FH002	1006	ICB	5ml	2			KT	AA24527 - ICB1	✓	
3FH003	1043	1ug/L	5ml	3			KT	AA24527 - CAL1	NO	A3F0197
3FH004	1113	5ug/L	5ml	4			KT	AA24527 - CAL2	NO	A3F0198
3FH005	1144	20ug/L	5ml	5			KT	AA24527 - CAL3	✓	A3F0199
3FH006	12:14	50 ug/L	5ml	6			KT	AA24527 - CAL4	✓	A3F0200
3FH007	12:44	100ug/L	5ml	7			KT	AA24527 - CAL5	✓	A3F0201
3FH008	13:14	200 ug/L	5ml	8			KT	AA24527 - CAL6	✓	A3F0202
3FH009	13:45	400 ug/L	5ml	9			KT	AA24527 - CAL7	✓	A3F0203
3FH010	1415	RL	5ml	10			KT	—	NO	
3FH011	1446	RL	5ml	11			KT	—	NO	
3FH012	1516	SCV1 (1ug/L) ~~SCV1 (50ug/L)~~	5ml	12			KT	AA24527 ~~CAL4~~	✓	A3F0204
3FH013	1546	SCV2 (5ug/L) ~~SCV2 (100ug/L)~~	5ml	13			KT	AA24527 - ~~CAL5~~	✓	A3F0205
3FH014	1639	SCV1 (50 ug/L DO)	5ml	14			KT	AA24527 - SCV1	✓	
3FH015	17:09	SCV2 100ug/L	5ml	15			KT	AA24527 - SCV2	✓	

KT 06/14/13

ANALYSIS SEQUENCE

AA24527

Instrument: OVGCMS3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24527-TUN1	QC		1		A3E0210		
AA24527-ICB1	QC		2			A3F0071	
AA24527-CAL1	QC		3		A3F0197	A3F0071	
AA24527-CAL2	QC		4		A3F0198	A3F0071	
AA24527-CAL3	QC		5		A3F0199	A3F0071	
AA24527-CAL4	QC		6		A3F0200	A3F0071	
AA24527-CAL5	QC		7		A3F0201	A3F0071	
AA24527-CAL6	QC		8		A3F0202	A3F0071	
AA24527-CAL7	QC		9		A3F0203	A3F0071	
AA24527-SCV1	QC		10		A3F0204	A3F0071	
AA24527-SCV2	QC		11		A3F0205	A3F0071	

Samples Loaded By Date

Data Processed By Date

Response Factor Report OVGCMS3

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 19:23:00 2013
Response via : Initial Calibration

Calibration Files
1 =3FH012.D 5 =3FH013.D 20 =3FH005.D
50 =3FH006.D 100 =3FH007.D 200 =3FH008.D

K606 1413

		Compound	1	5	20	50	100	200	Avg	%RSD	
1)	i	Pentafluorobenzene(IS	----------	----------	----------	ISTD	----------	----------	----------		400
2)		Dichlorodifluoromet	1.140	1.069	1.076	1.017	1.021	0.902	1.037	7.72	
3)	**	Chloromethane	1.268	1.089	1.048	1.021	1.003	0.930	1.060	10.84	
4)	*	Vinyl Chloride	1.050	1.108	1.128	1.147	1.124	0.983	1.090	5.68	
5)		Bromomethane	0.889	0.781	0.721	0.658	0.637	—	0.737	13.85	
6)		Chloroethane	0.692	0.672	0.649	0.578	0.518	—	0.622	11.58	
7)		Trichlorofluorometh	1.407	1.367	1.443	1.348	1.244	1.046	1.309	11.12	
8)		Trichlorotrifluoroe	0.918	1.006	0.939	0.907	0.842	0.713	0.888	11.33	
9)		acrolein	0.051	0.053	0.062	0.066	0.065	0.061	0.060#	10.44	
10)		Acetone	—	0.158	0.184	0.161	0.140	0.133	0.150	14.90	400
11)	*m	1,1-Dichloroethene	0.831	0.719	0.703	0.700	0.630	0.538	0.687	14.20	
12)		3-Chloropropene	0.282	0.319	0.356	0.385	0.384	0.369	0.351	10.74	400
13)		Acetonitrile	0.067	0.058	0.054	0.051	0.050	0.051	0.055#	10.30	400
14)		Iodomethane	1.156	1.006	0.854	0.897	0.904	0.835	0.926	12.77	400
15)		Carbon disulfide	2.766	2.768	2.704	2.593	2.406	2.154	2.565	9.48	
16)		Methylene Chloride	0.969	0.856	0.806	0.760	0.727	0.664	0.797	13.42	
17)		Methyl tert-butyl e	0.821	0.693	0.821	0.946	1.004	0.980	0.878	13.64	
18)		Acrylonitrile	0.157	0.157	0.163	0.168	0.163	0.147	0.159	4.68	
19)		T-1,2-Dichloroethen	0.645	0.713	0.704	0.745	0.719	0.639	0.694	6.16	
20)		Isopropyl Ether	1.626	1.624	2.116	2.258	2.226	1.903	1.959	14.66	
21)		C-1,2-Dichloroethen	0.732	0.631	0.728	0.774	0.779	0.689	0.722	7.66	
22)	**	1,1-Dichloroethane	1.448	1.289	1.286	1.251	1.220	1.050	1.257	10.21	
23)		Vinyl Acetate	1.070	1.095	1.419	1.516	1.464	1.363	1.321	14.51	
24)		Chloroprene	0.839	0.606	0.815	0.931	0.926	0.861	0.821	13.54	400
25)		2-Butanone	—	0.029	0.033	0.041	0.042	0.041	0.038#	14.70	400
26)		Propionitrile	0.074	0.060	0.064	0.061	0.054	0.054	0.059#	14.92	400
27)		2,2-Dichloropropane	0.961	0.873	0.850	0.879	0.856	0.745	0.861	8.05	
28)		Methacrylonitrile	0.203	0.193	0.207	0.203	0.184	0.160	0.192	9.17	
29)	*	Chloroform	1.468	1.375	1.313	1.256	1.206	1.044	1.277	11.46	
30)	s	Dibromofluoromethan	—	0.873	0.846	0.619	0.811	0.764	0.783	12.83	
31)		Dibromofluoromethan	—	0.873	0.846	0.619	0.811	0.764	0.783	12.83	
32)		Bromochloromethane	0.478	0.406	0.411	0.393	0.385	0.347	0.403	10.61	
33)		1,1,1-Trichloroetha	1.110	1.060	0.994	0.985	0.933	0.819	0.984	10.32	
34)		1,1-Dichloropropene	0.634	0.661	0.852	0.906	0.884	0.779	0.786	14.75	
35)		Diethyl ether	0.677	0.543	0.550	0.542	0.526	0.466	0.551	12.55	
36)		Methyl Acetate	0.088	0.072	0.080	0.077	0.079	0.072	0.078#	7.38	
37)		Cyclohexane	1.047	0.855	1.190	1.218	1.180	0.999	1.082	13.03	
38)	i	1,4-Difluorobenzene(I	----------	----------	----------	ISTD	----------	----------	----------		
39)		Methyl Cyclohexane	0.750	0.607	0.637	0.597	0.589	0.502	0.614	13.15	
40)		Carbon Tetrachlorid	0.637	0.560	0.559	0.523	0.538	0.450	0.545	11.15	
41)		1,2-Dichloroethane	0.513	0.543	0.501	0.474	0.484	0.425	0.490	8.19	
42)	m	Benzene	1.620	1.628	1.645	1.535	1.475	1.184	1.514	11.51	
43)		Isobutyl Alcohol	0.011	0.012	0.012	0.014	0.014	0.016	0.013#	12.59	
44)	s	1,2-Dichloroethane-	—	0.426	0.435	0.299	0.438	0.407	0.401	14.53	
45)		1,2-Dichloroethane-	—	0.426	0.435	0.299	0.438	0.407	0.401	14.53	
46)	m	Trichloroethene	0.590	0.473	0.455	0.442	0.445	0.391	0.466	14.30	
47)	*	1,2-Dichloropropane	0.516	0.391	0.406	0.385	0.399	0.355	0.409	13.56	
48)		Methyl Methacrylate	0.060	0.068	0.065	0.078	0.082	0.085	0.075#	13.44	400
49)		1,4-Dioxane	0.002	0.002	0.002	0.002	0.003	0.003	0.002#	12.74	400
50)		Bromodichloromethan	0.650	0.554	0.520	0.507	0.515	0.460	0.534	12.03	
51)		Dibromomethane	0.297	0.277	0.244	0.251	0.260	0.234	0.261	8.86	
52)		4-Methyl-2-Pentanon	—	0.034	0.030	0.031	0.036	0.037	0.034#	7.88	400

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report OVGCMS3

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 19:23:00 2013
Response via : Initial Calibration

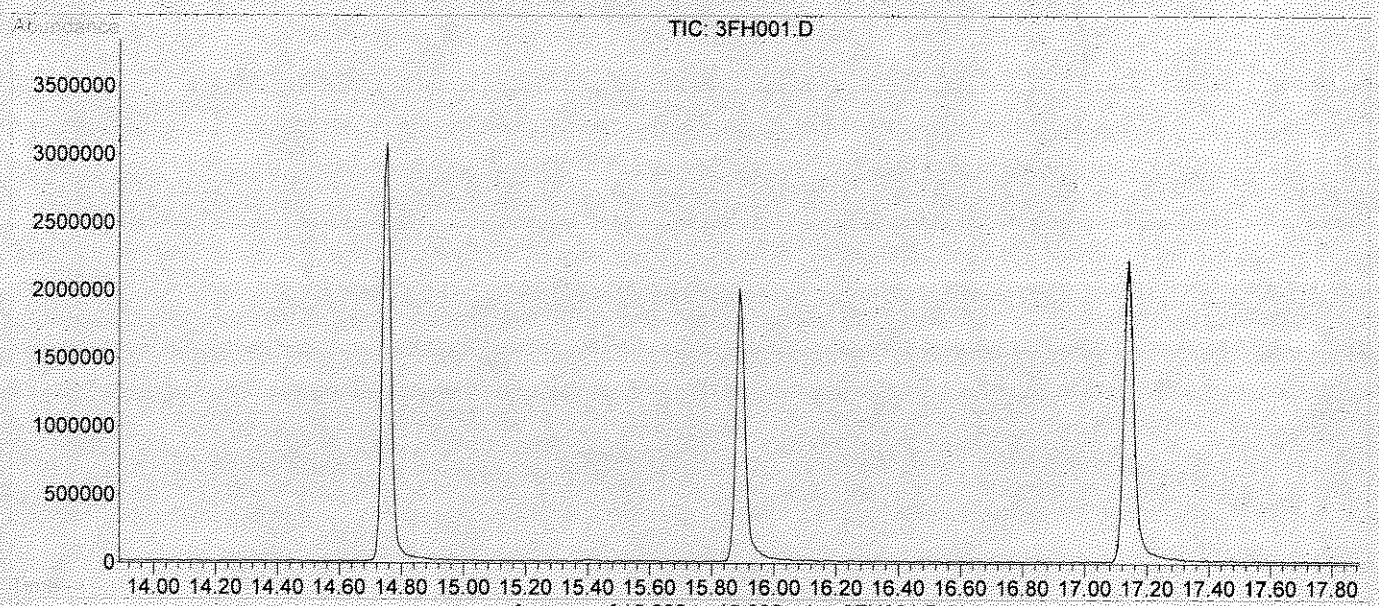
Calibration Files
1 =3FH012.D 5 =3FH013.D 20 =3FH005.D
50 =3FH006.D 100 =3FH007.D 200 =3FH008.D

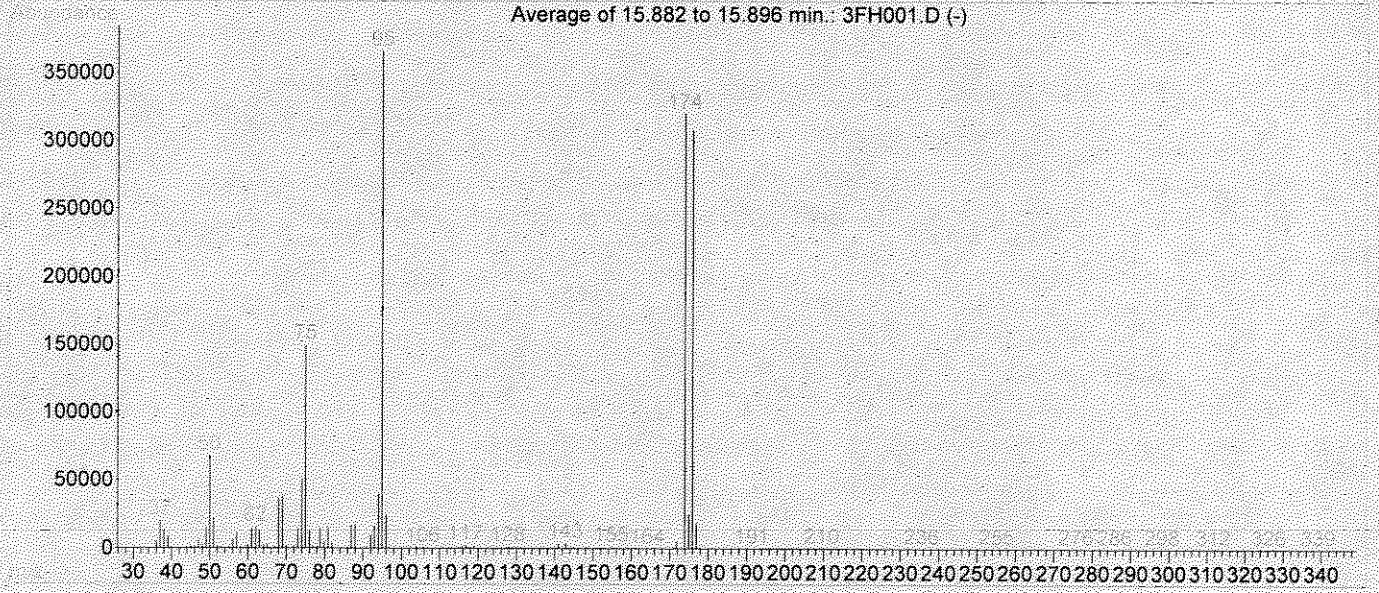
		Compound	1	5	20	50	100	200	Avg	%RSD	
53)		2-Chloroethyl vinyl	0.003	0.004	0.004	0.003	0.004	0.004	0.004#	11.81	
54)		2-Hexanone	—	0.154	0.164	0.179	0.196	0.194	0.177	9.28	400
55)		C-1,3-Dichloroprope	0.493	0.465	0.559	0.604	0.646	0.583	0.558	12.24	
56)	s	D8-Toluene	—	1.148	1.360	1.016	1.432	1.146	1.220	14.01	
57)		D8-Toluene	—	1.148	1.360	1.016	1.432	1.146	1.220	14.01	
58)	i	Chlorobenzene-d5(IS)	----------ISTD----------								
59)	m*	Toluene	0.963	0.968	1.040	1.078	1.107	0.892	1.008	8.04	
60)		Ethyl Methacrylate	0.414	0.284	0.374	0.420	0.424	0.404	0.388	12.62	400
61)		T-1,3-Dichloroprope	0.538	0.445	0.494	0.523	0.562	0.488	0.508	8.16	
62)		1,1,2-Trichloroetha	0.443	0.378	0.360	0.367	0.364	0.331	0.374	9.95	
63)		1,3-Dichloropropane	0.795	0.582	0.587	0.607	0.620	0.544	0.622	14.22	
64)		Tetrachloroethene	0.378	0.372	0.381	0.381	0.384	0.337	0.372	4.74	
65)		Dibromochloromethan	0.494	0.451	0.438	0.448	0.466	0.419	0.453	5.70	
66)		1,2-Dibromoethane	0.479	0.373	0.375	0.379	0.394	0.353	0.392	11.37	
67)	**m	Chlorobenzene	1.616	1.469	1.323	1.318	1.295	1.081	1.350	13.34	
68)		1,1,1,2-Tetrachloro	0.476	0.480	0.433	0.433	0.443	0.394	0.443	7.16	
69)	*	Ethylbenzene	0.501	0.425	0.545	0.599	0.632	0.542	0.541	13.48	
70)		m-xylene & p-xylene	0.793	0.765	0.768	0.788	0.775	0.602	0.749	9.69	
71)		O-Xylene	0.522	0.570	0.693	0.722	0.784	0.675	0.661	14.75	
72)	**	Bromoform	0.387	0.285	0.272	0.288	0.302	0.278	0.302	14.25	
73)		Styrene	0.870	1.006	1.172	1.257	1.297	1.104	1.118	14.34	
74)		Isopropylbenzene	1.496	1.480	1.866	2.015	1.904	—	1.752	14.12	
75)		1,2,3-Trichloroprop	0.540	0.445	0.429	0.438	0.422	0.411	0.448	10.44	
76)	**	1,1,2,2-Tetrachloro	0.618	0.482	0.481	0.457	0.458	0.412	0.485	14.48	
77)	s	Bromofluorobenzene	—	0.488	0.547	0.421	0.585	0.568	0.522	12.91	
78)		Bromofluorobenzene	—	0.488	0.547	0.421	0.585	0.568	0.522	12.91	
79)		T-1,4-dichloro-2-bu	0.063	0.071	0.066	0.070	0.072	0.074	0.069#	5.57	400.
80)		N-Propylbenzene	2.029	2.232	2.349	2.329	2.194	1.519	2.109	14.74	
81)	i	1,4-Dichlorobenzene-d	----------ISTD----------								
82)		Bromobenzene	1.057	1.091	1.043	1.083	1.152	1.007	1.072	4.62	
83)		1,3,5-Trimethylbenz	2.464	2.846	3.029	3.206	3.309	2.616	2.912	11.39	
84)		2-Chlorotoluene	2.928	2.898	2.840	2.888	2.961	2.489	2.834	6.13	
85)		4-Chlorotoluene	2.483	2.369	2.645	2.878	2.969	2.492	2.639	9.05	
86)		1,2,4-Trimethylbenz	2.322	2.797	2.998	3.135	3.196	2.618	2.844	11.75	
87)		s-Butylbenzene	3.560	3.861	4.290	4.512	4.511	3.235	3.995	13.27	
88)		tert-Butylbenzene	2.156	2.360	2.726	2.883	3.037	2.431	2.599	13.00	
89)		p-Isopropyltoluene	2.328	2.572	2.941	3.126	3.286	2.700	2.826	12.70	
90)		1,3-Dichlorobenzene	2.471	1.898	1.861	1.926	2.045	1.787	1.998	12.36	
91)		1,4-Dichlorobenzene	2.216	2.193	1.945	1.946	1.926	1.696	1.987	9.74	
92)		1,2-Dichlorobenzene	2.070	1.629	1.713	1.769	1.845	1.659	1.781	9.06	
93)		N-Butylbenzene	2.424	2.546	3.003	3.139	3.217	2.700	2.838	11.56	
94)		DBCP	0.121	0.127	0.105	0.107	0.121	0.114	0.116	7.30	
95)		Naphthalene	1.999	1.775	1.435	1.679	2.113	1.934	1.823	13.45	
96)		1,2,4-Trichlorobenz	1.053	1.178	0.949	1.054	1.162	1.088	1.081	7.75	
97)		Hexachlorobutadiene	0.685	0.644	0.568	0.585	0.631	0.592	0.617	7.08	
98)		1,2,3-Trichlorobenz	0.977	0.846	0.812	0.932	1.075	0.981	0.937	10.30	

(#) = Out of Range ### Number of calibration levels exceeded format ###

BFB

Data File : C:\HPCHEM\1\DATA\061313\3FH001.D Vial: 1
Acq On : 13 Jun 2013 9:36 Operator: kwb
Sample : bfb 50NG Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033





AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1586

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	67757	PASS
75	95	30	60	40.9	149973	PASS
95	95	100	100	100.0	366272	PASS
96	95	5	9	6.7	24647	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.5	320354	PASS
175	174	5	9	7.9	25173	PASS
176	174	95	101	96.2	308267	PASS
177	176	5	9	6.2	19115	PASS

VT 6/14/13

CC ISTD Areas

CC Data File : C:\HPCHEM\1\DATA\061313\3FH007.D
Date Acquired: 13 Jun 2013 12:44

ISTD Name	Response
Pentafluorobenzene(IS)	1787640
1,4-Difluorobenzene(IS)	2856130
Chlorobenzene-d5(IS)	2602100
1,4-Dichlorobenzene-d4(IS)	1180730

Surrogates

Dibromofluoromethane
1,2-Dichloroethane-d4
D8-Toluene
Bromofluorobenzene

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH002.D Vial: 2
Acq On : 13 Jun 2013 10:06 Operator: kwb
Sample : aa24527-icb1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 8:24 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

6/26/14/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1352258	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2368139	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	1954761	50.00	ug/L	0.00
81) 1,4-Dichlorobenzene-d4(IS)	17.14	152	812529	50.00	ug/L	0.00

System Monitoring Compounds

30) Dibromofluoromethane	11.08	113	917461	43.34	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 86.68%			
44) 1,2-Dichloroethane-d4	11.65	65	792963	41.73	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 83.46%			
56) D8-Toluene	13.34	98	2537002	43.89	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 87.78%			
77) Bromofluorobenzene	15.89	95	789279	38.70	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 77.40%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	0.00	62		N.D.		
5) Bromomethane	0.00	94		N.D.		
6) Chloroethane	0.00	64		N.D.		
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Trichlorotrifluoroethane	0.00	101		N.D.		
9) acrolein	0.00	56		N.D.	d	
10) Acetone	0.00	43		N.D.	d	
11) 1,1-Dichloroethene	0.00	96		N.D.		
12) 3-Chloropropene	0.00	76		N.D.		
13) Acetonitrile	0.00	41		N.D.	d	
14) Iodomethane	0.00	142		N.D.		
15) Carbon disulfide	0.00	76		N.D.	d	
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.		
18) Acrylonitrile	0.00	53		N.D.		
19) T-1,2-Dichloroethene	0.00	96		N.D.		
20) Isopropyl Ether	0.00	45		N.D.		
21) C-1,2-Dichloroethene	0.00	96		N.D.		
22) 1,1-Dichloroethane	0.00	63		N.D.		
23) Vinyl Acetate	0.00	43		N.D.		
24) Chloroprene	0.00	53		N.D.		
25) 2-Butanone	0.00	72		N.D.		
26) Propionitrile	0.00	54		N.D.	d	
27) 2,2-Dichloropropane	0.00	77		N.D.		
28) Methacrylonitrile	0.00	67		N.D.	d	
29) Chloroform	0.00	83		N.D.		
31) Dibromofluoromethane	11.08	113	917461	43.34	ug/L	100
32) Bromochloromethane	0.00	128		N.D.		
33) 1,1,1-Trichloroethane	0.00	97		N.D.		
34) 1,1-Dichloropropene	0.00	75		N.D.		
35) Diethyl ether	0.00	59		N.D.		
36) Methyl Acetate	0.00	74		N.D.		
37) Cyclohexane	0.00	56		N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH002.D Vial: 2
Acq On : 13 Jun 2013 10:06 Operator: kwb
Sample : aa24527-icb1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 8:24 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D.	
41) 1,2-Dichloroethane	0.00	62		N.D.	
42) Benzene	0.00	78		N.D.	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	11.65	65	792963	41.73 ug/l #	95
46) Trichloroethene	0.00	130		N.D.	
47) 1,2-Dichloropropane	0.00	63		N.D.	
48) Methyl Methacrylate	0.00	100		N.D.	
49) 1,4-Dioxane	0.00	88		N.D. d	
50) Bromodichloromethane	0.00	83		N.D.	
51) Dibromomethane	0.00	93		N.D.	
52) 4-Methyl-2-Pentanone	0.00	100		N.D. d	
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	0.00	43		N.D.	
55) C-1,3-Dichloropropene	0.00	75		N.D.	
57) D8-Toluene	13.34	98	2537002	43.89 ug/L	93
59) Toluene	0.00	92		N.D.	
60) Ethyl Methacrylate	0.00	69		N.D.	
61) T-1,3-Dichloropropene	0.00	75		N.D.	
62) 1,1,2-Trichloroethane	0.00	97		N.D.	
63) 1,3-Dichloropropane	0.00	76		N.D.	
64) Tetrachloroethene	0.00	164		N.D.	
65) Dibromochloromethane	0.00	129		N.D.	
66) 1,2-Dibromoethane	0.00	107		N.D.	
67) Chlorobenzene	0.00	112		N.D.	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
69) Ethylbenzene	0.00	106		N.D.	
70) m-xylene & p-xylene	0.00	106		N.D.	
71) O-Xylene	0.00	106		N.D.	
72) Bromoform	0.00	173		N.D.	
73) Styrene	0.00	104		N.D.	
74) Isopropylbenzene	0.00	105		N.D.	
75) 1,2,3-Trichloropropane	0.00	75		N.D.	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
78) Bromofluorobenzene	15.89	95	789279	38.70 ug/L #	76
79) T-1,4-dichloro-2-butene	0.00	53		N.D.	
80) N-Propylbenzene	0.00	91		N.D.	
82) Bromobenzene	0.00	156		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 2-Chlorotoluene	0.00	91		N.D.	
85) 4-Chlorotoluene	0.00	91		N.D.	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
87) s-Butylbenzene	0.00	105		N.D.	
88) tert-Butylbenzene	0.00	119		N.D.	
89) p-Isopropyltoluene	0.00	119		N.D.	
90) 1,3-Dichlorobenzene	0.00	146		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) 1,2-Dichlorobenzene	0.00	146		N.D.	
93) N-Butylbenzene	0.00	91		N.D.	
94) DBCP	0.00	75		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH002.D Vial: 2
Acq On : 13 Jun 2013 10:06 Operator: kwb
Sample : aa24527-icb1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 8:24 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D.	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
97) Hexachlorobutadiene	0.00	225		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

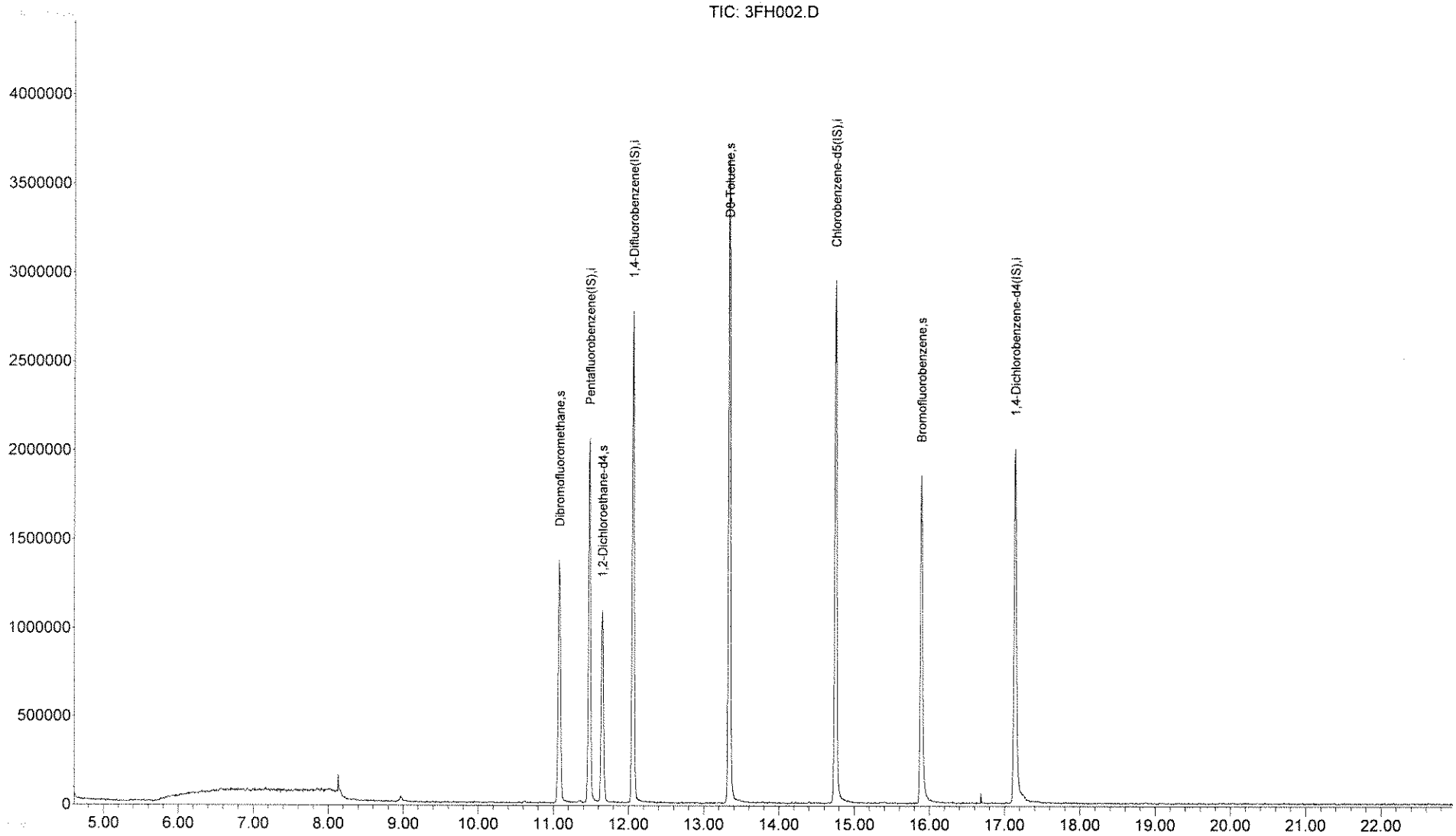
Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH002.D
Acq On : 13 Jun 2013 10:06
Sample : aa24527-icb1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 14 8:24 2013

Vial: 2
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00

Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D
Acq On : 13 Jun 2013 15:16
Sample : aa24527-cal1
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 19:13 2013

Vial: 12
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 14:39:12 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

W20614113

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1326277m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2279610m	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	1859081m	50.00	ug/L	0.00
81) 1,4-Dichlorobenzene-d4(IS)	17.15	152	834015m	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	11.09	113	31153	1.45	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 2.90%#			
44) 1,2-Dichloroethane-d4	11.65	65	30607	1.54	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 3.08%#			
56) D8-Toluene	13.35	98	62047	1.16	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 2.32%#			
77) Bromofluorobenzene	15.89	95	25952	1.38	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 2.76%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.98	85	30238	1.11	ug/L #	56
3) Chloromethane	5.53	50	33643	1.24	ug/L	85
4) Vinyl Chloride	5.77	62	27839	0.98	ug/L	83
5) Bromomethane	6.58	94	23583	1.20	ug/L	83
6) Chloroethane	6.86	64	18346	1.22	ug/L	67
7) Trichlorofluoromethane	7.14	101	37325	1.05	ug/L	89
8) Trichlorotrifluoroethane	8.11	101	24346	1.04	ug/L	99
9) acrolein	8.61	56	13544	8.67	ug/L	70
10) Acetone	9.05	43	12204	2.45	ug/L	91
11) 1,1-Dichloroethene	8.07	96	22043	1.23	ug/L	67
12) 3-Chloropropene	8.81	76	7476	0.85	ug/L	77
13) Acetonitrile	9.72	41	17722	12.37	ug/L #	64
14) Iodomethane	8.34	142	30663	1.40	ug/L	99
15) Carbon disulfide	8.16	76	73359	1.15	ug/L	96
16) Methylene Chloride	8.97	84	25697	1.25	ug/L #	82
17) Methyl tert-butyl ether	9.32	73	21770	1.03	ug/L	90
18) Acrylonitrile	10.08	53	41614	11.04	ug/L	92
19) T-1,2-Dichloroethene	9.20	96	17113	0.94	ug/L	79
20) Isopropyl Ether	9.75	45	43128	0.85	ug/L #	85
21) C-1,2-Dichloroethene	10.62	96	19413	1.07	ug/L	82
22) 1,1-Dichloroethane	10.00	63	38400	1.19	ug/L	94
23) Vinyl Acetate	10.22	43	28394	0.85	ug/L	93
24) Chloroprene	9.96	53	22243	1.12	ug/L	75
25) 2-Butanone	11.21	72	611	0.70	ug/L #	77
26) Propionitrile	11.54	54	19545	13.26	ug/L	100
27) 2,2-Dichloropropane	10.74	77	25489	1.16	ug/L	96
28) Methacrylonitrile	11.55	67	53925	11.61	ug/L	93
29) Chloroform	10.89	83	38935	1.15	ug/L	97
31) Dibromofluoromethane	0.00	113		No Calib		
32) Bromochloromethane	10.85	128	12667	1.24	ug/L	75
33) 1,1,1-Trichloroethane	11.15	97	29455	1.15	ug/L #	57
34) 1,1-Dichloropropene	11.25	75	16816	0.84	ug/L	84
35) Diethyl ether	7.71	59	17949	1.26	ug/l #	83
36) Methyl Acetate	9.19	74	2321	1.31	ug/l	38
37) Cyclohexane	10.86	56	27762	1.07	ug/l	64

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:13 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 14:39:12 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	12.09	55	34211	1.23 ug/l #	78
40) Carbon Tetrachloride	11.07	117	29047	1.21 ug/L	91
41) 1,2-Dichloroethane	11.72	62	23376	1.05 ug/L	91
42) Benzene	11.52	78	73846	1.05 ug/L	80
43) Isobutyl Alcohol	11.59	43	10244	18.64 ug/L #	30
45) 1,2-Dichloroethane-d4	0.00	65		No Calib #	
46) Trichloroethene	12.07	130	26915	1.34 ug/L #	19
47) 1,2-Dichloropropane	12.58	63	23530	1.36 ug/L	92
48) Methyl Methacrylate	12.65	100	2738	0.88 ug/L	73
49) 1,4-Dioxane	12.78	88	1839	18.30 ug/L	89
50) Bromodichloromethane	12.61	83	29625	1.29 ug/L	98
51) Dibromomethane	12.51	93	13545	1.19 ug/L	89
52) 4-Methyl-2-Pentanone	13.67	100	705	0.54 ug/L #	72
53) 2-Chloroethyl vinyl ether	13.15	63	152	0.75 ug/L	1
54) 2-Hexanone	14.38	43	4869	0.68 ug/L #	46
55) C-1,3-Dichloropropene	13.18	75	22494	0.92 ug/L	83
57) D8-Toluene	0.00	98		No Calib #	
59) Toluene	13.39	92	35801	1.01 ug/L	99
60) Ethyl Methacrylate	13.77	69	15403	1.20 ug/L	96
61) T-1,3-Dichloropropene	13.73	75	20020	1.16 ug/L	88
62) 1,1,2-Trichloroethane	13.89	97	16473	1.18 ug/L	85
63) 1,3-Dichloropropane	14.15	76	29560	1.36 ug/L	100
64) Tetrachloroethene	13.75	164	14052	1.01 ug/L	91
65) Dibromochloromethane	14.07	129	18383	1.11 ug/L	90
66) 1,2-Dibromoethane	14.34	107	17817	1.29 ug/L	93
67) Chlorobenzene	14.77	112	60098	1.24 ug/L	86
68) 1,1,1,2-Tetrachloroethane	14.81	131	17692	1.08 ug/L	1
69) Ethylbenzene	14.74	106	18640	0.98 ug/L	97
70) m-xylene & p-xylene	14.85	106	58978	2.26 ug/L	95
71) O-Xylene	15.27	106	19404	0.84 ug/L	88
72) Bromoform	15.42	173	14405	1.41 ug/L	95
73) Styrene	15.32	104	32365	0.85 ug/L	90
74) Isopropylbenzene	15.54	105	55620	0.95 ug/L	100
75) 1,2,3-Trichloropropane	16.23	75	20065	1.29 ug/L	77
76) 1,1,2,2-Tetrachloroethane	16.03	83	22972	1.30 ug/L	97
78) Bromofluorobenzene	0.00	95		No Calib #	
79) T-1,4-dichloro-2-butene	16.21	53	2337	1.04 ug/L #	1
80) N-Propylbenzene	15.95	91	75449	1.08 ug/L	91
82) Bromobenzene	16.06	156	17623	1.04 ug/L	86
83) 1,3,5-Trimethylbenzene	16.11	105	41105	0.91 ug/L	96
84) 2-Chlorotoluene	16.19	91	48834	1.12 ug/L	84
85) 4-Chlorotoluene	16.37	91	41415	1.01 ug/L	88
86) 1,2,4-Trimethylbenzene	16.56	105	38728	0.87 ug/L	87
87) s-Butylbenzene	16.69	105	59388	0.95 ug/L	97
88) tert-Butylbenzene	16.50	119	35956	0.88 ug/L	96
89) p-Isopropyltoluene	16.82	119	38833	0.89 ug/L	89
90) 1,3-Dichlorobenzene	17.07	146	41219	1.37 ug/L	94
91) 1,4-Dichlorobenzene	17.16	146	36964	1.10 ug/L	74
92) 1,2-Dichlorobenzene	17.74	146	34524	1.25 ug/L	93
93) N-Butylbenzene	17.34	91	40428	0.92 ug/L	96
94) DBCP	18.93	75	2013	1.11 ug/L	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:13 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 14:39:12 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.92	128	33337	1.40 ug/L	100
96)	1,2,4-Trichlorobenzene	20.13	180	17567	1.15 ug/L	93
97)	Hexachlorobutadiene	19.96	225	11419	1.16 ug/L	92
98)	1,2,3-Trichlorobenzene	21.33	180	16290	1.18 ug/L	47

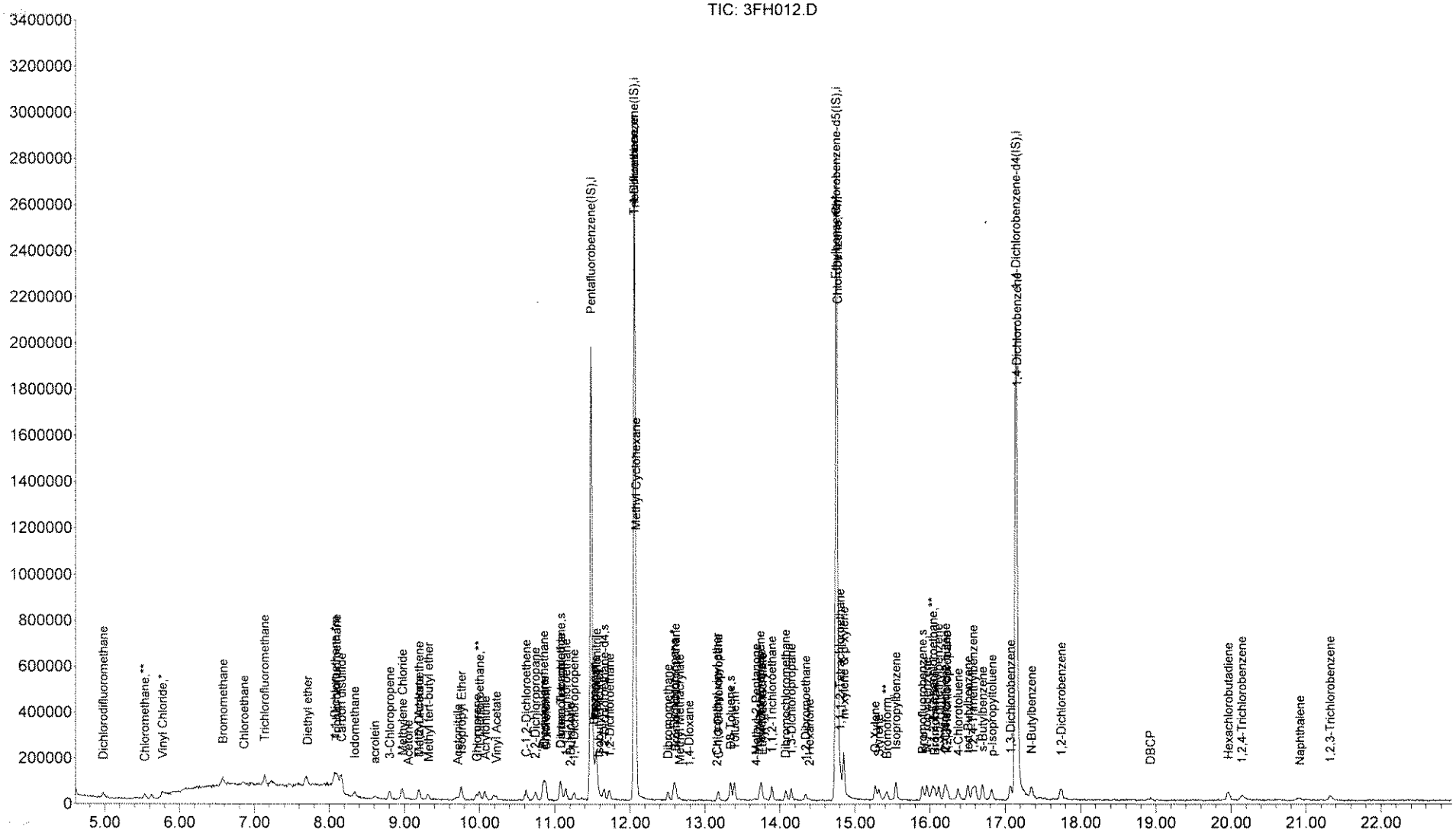
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:13 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

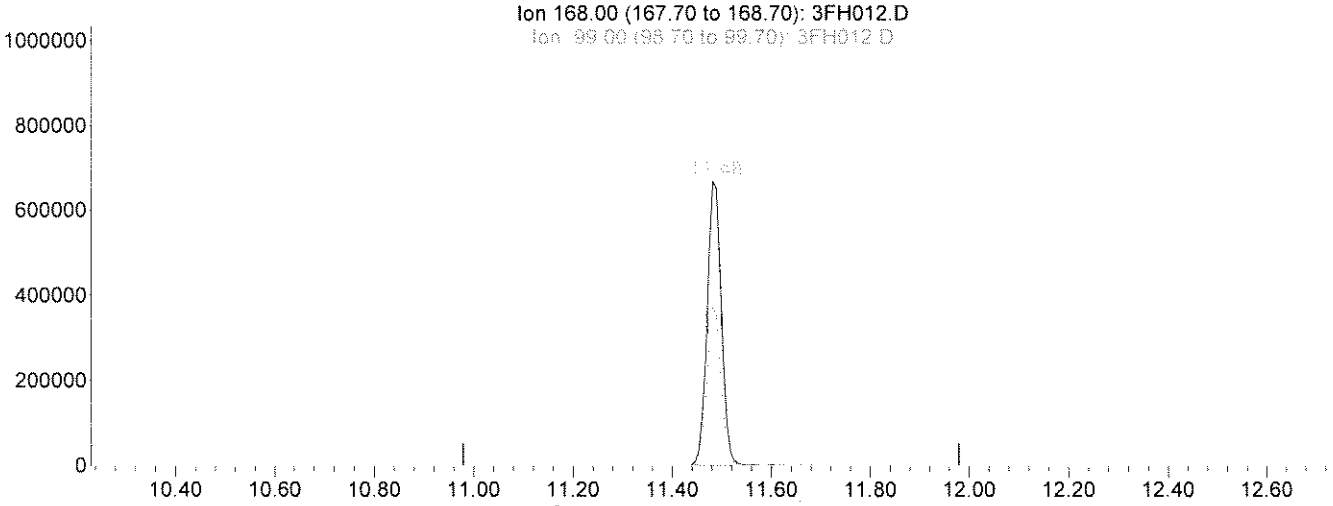
TIC: 3FH012.D

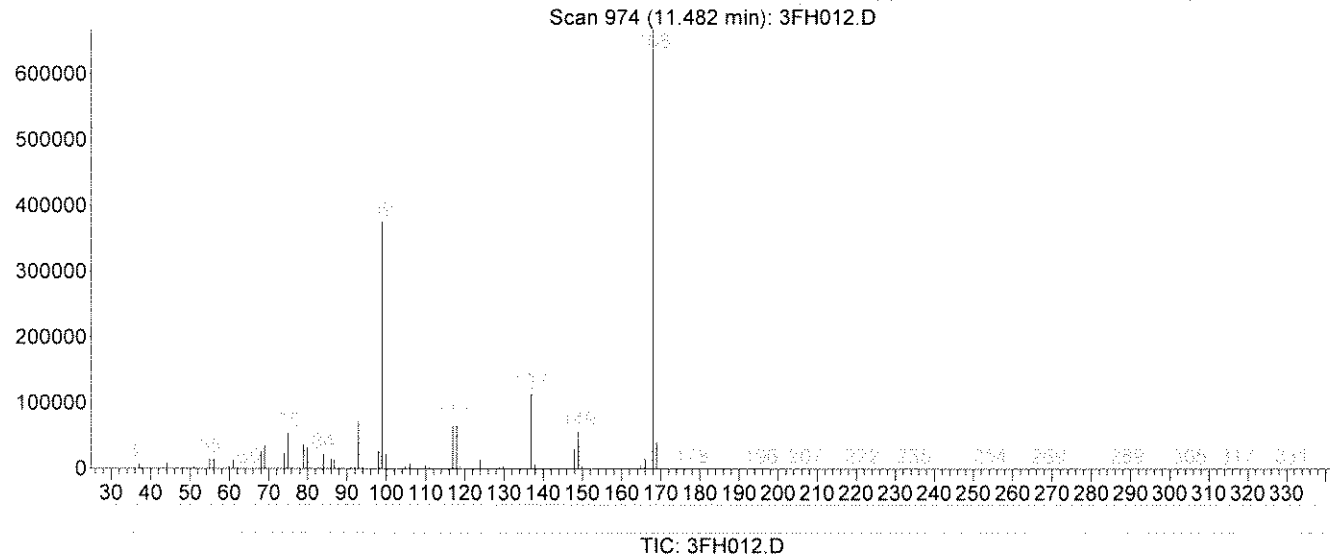


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 16:17 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 16:21:57 2013
Response via : Multiple Level Calibration





(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L

response 1318530

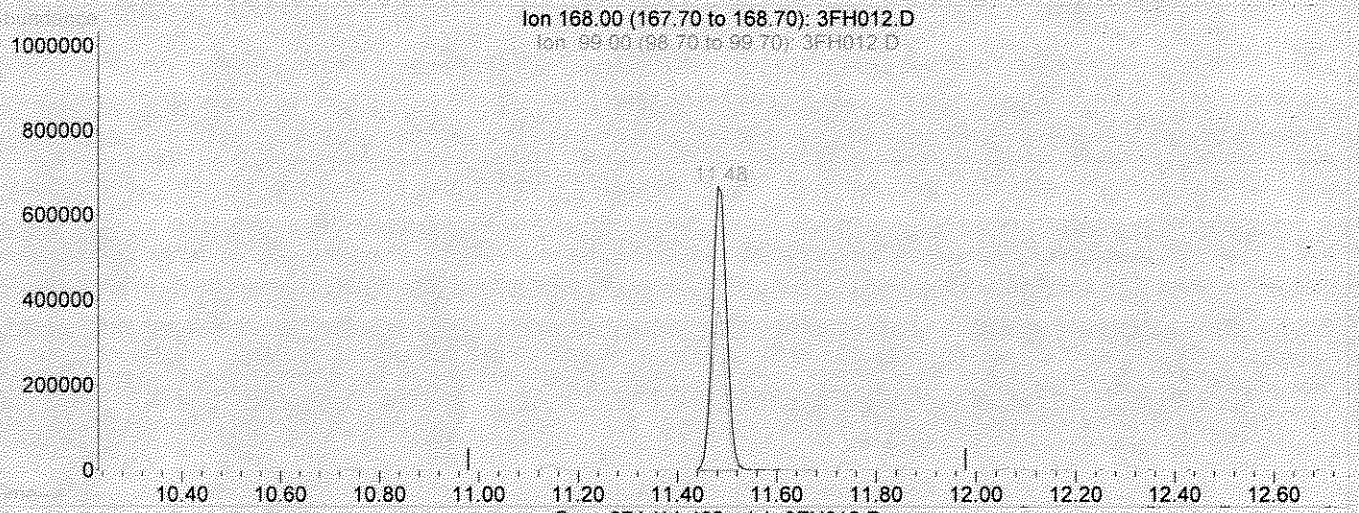
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	55.17
169.00	6.30	6.65
0.00	0.00	0.00

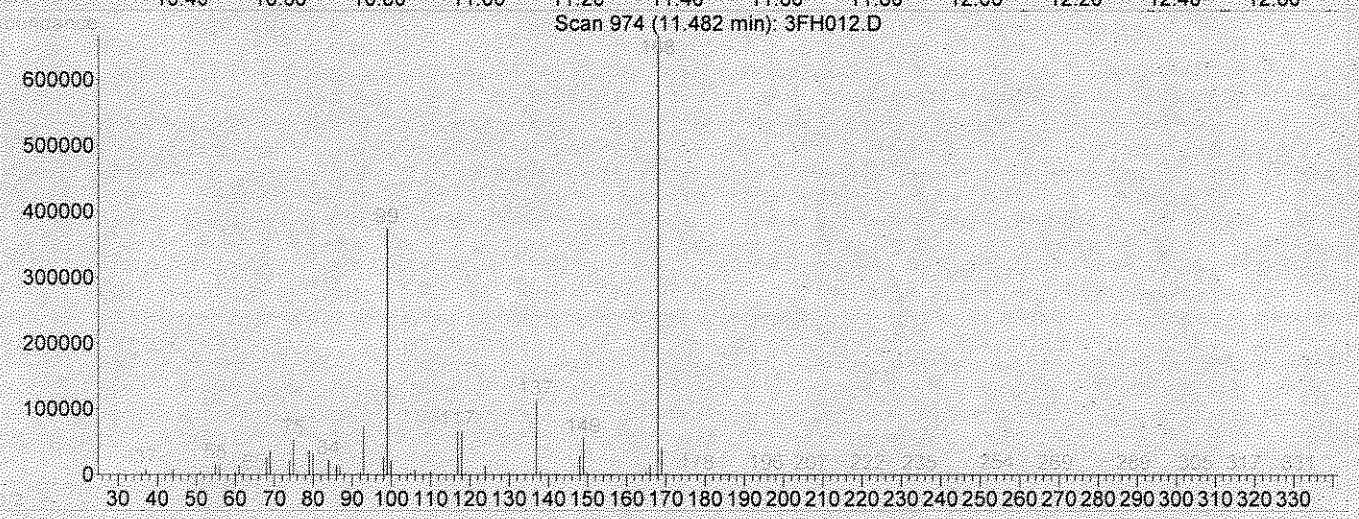
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:08 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 16:21:57 2013
Response via : Multiple Level Calibration





TIC: 3FH012.D

(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L m

response 1326277

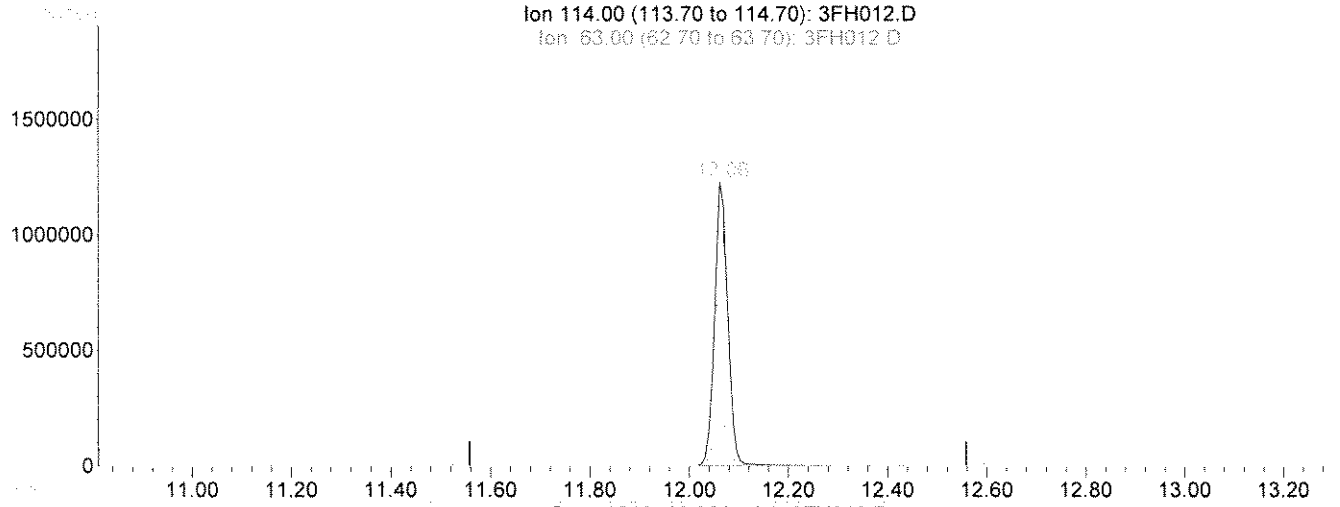
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	54.85
169.00	6.30	6.61
0.00	0.00	0.00

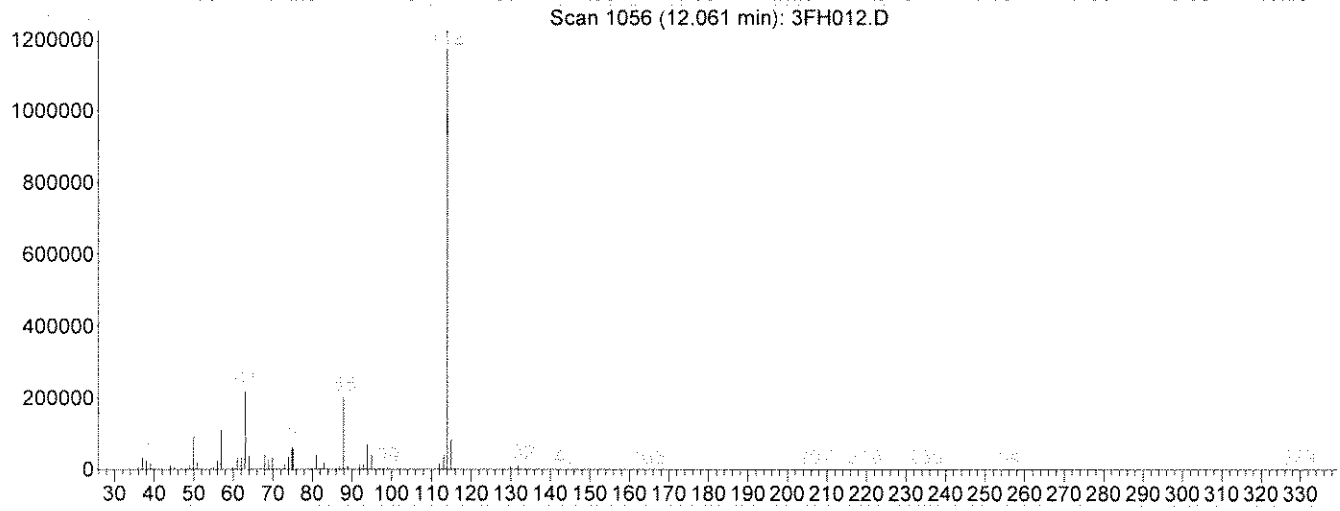
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] STD reintegration
[ ] Other:
Review by/Date: 6/26/13
Review by/Date: MP 6/26/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:14 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 17:40:39 2013
Response via : Multiple Level Calibration





(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L

response 2273031

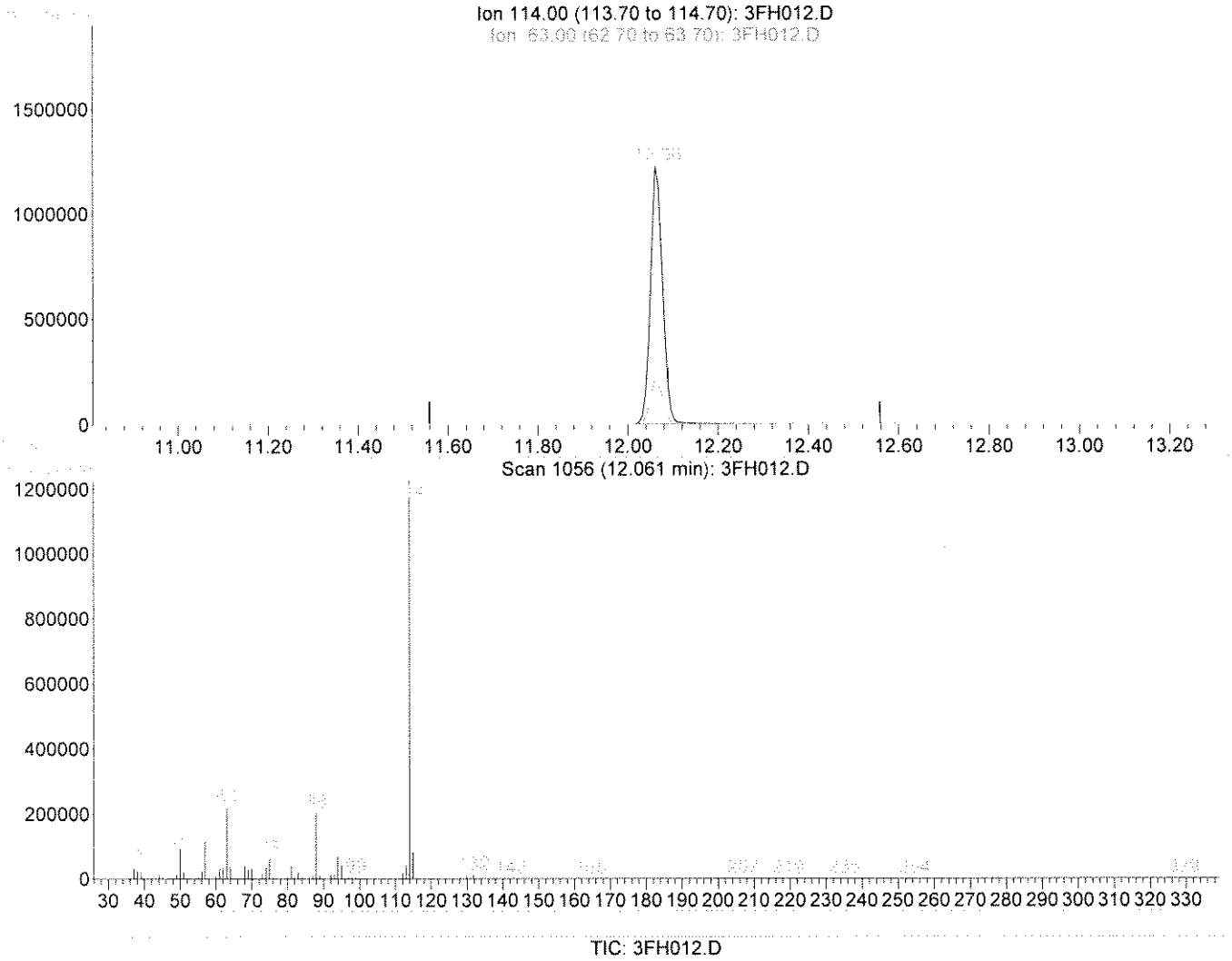
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	18.17
88.00	20.10	16.54
0.00	0.00	0.00

Select One:
[✓] Original Integration [] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date KKB 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 17:40:39 2013
Response via : Multiple Level Calibration



(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L m

response 2279610

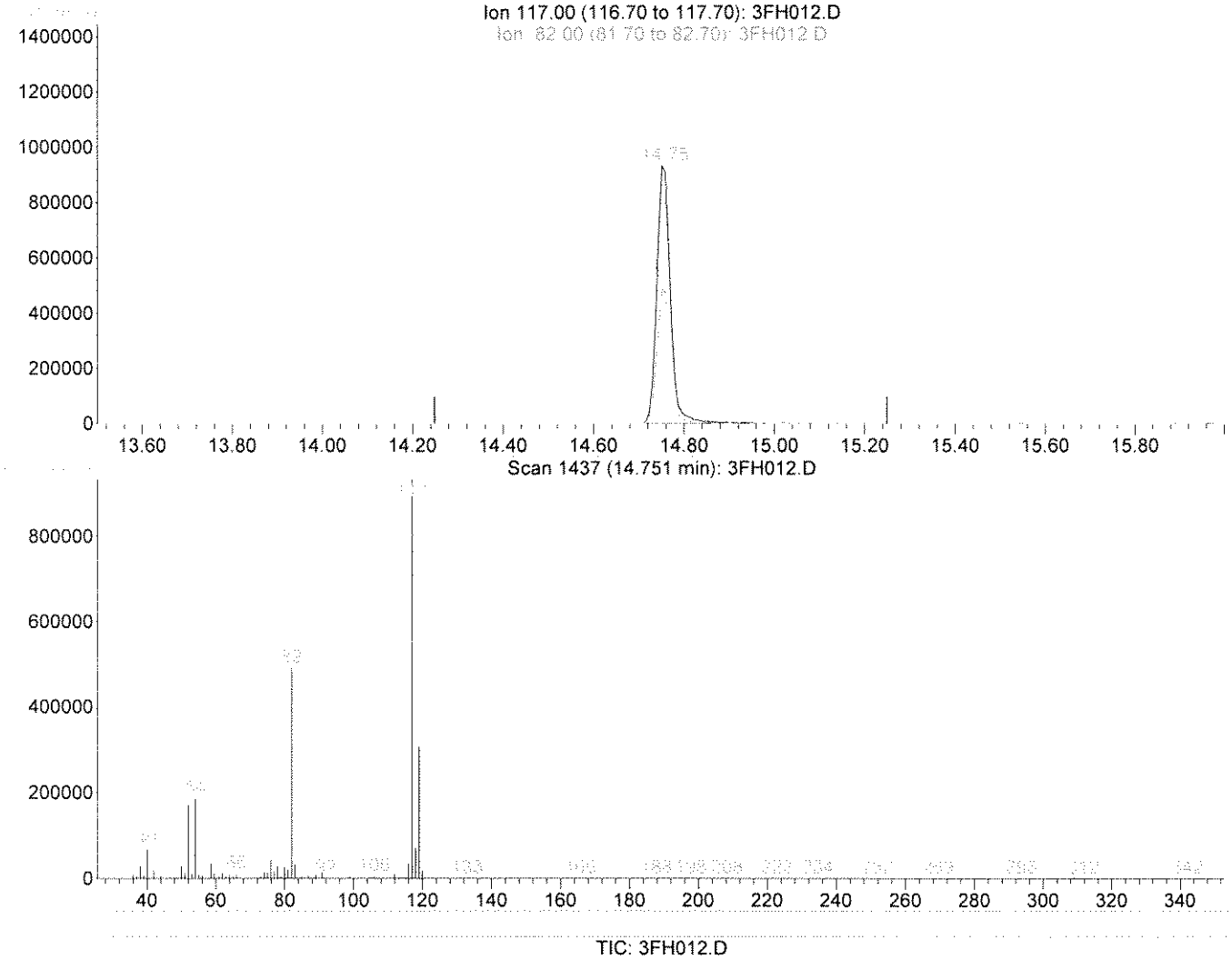
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	18.12
88.00	20.10	16.49
0.00	0.00	0.00

Reviewed by:
[] Manual integration [✓] Manual Integration
[] Reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Slump integration
[] Baseline drop for split peaks
[✓] IS ID reintegration
[] Other:
Review by/Date LT 06/14/13
Reviewed by/Date: MP 06/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:52 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 18:04:53 2013
Response via : Multiple Level Calibration



(58) Chlorobenzene-d5(IS) (i)

14.75min 50.00ug/L

response 1932904

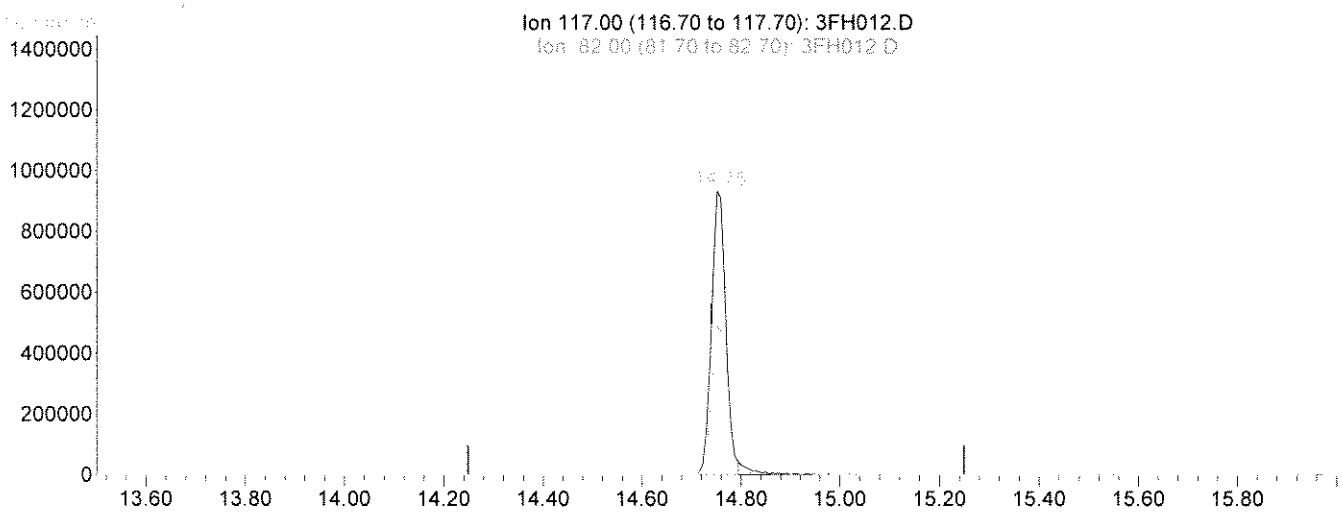
Ion	Exp%	Act%
117.00	100	100
82.00	60.40	51.01
119.00	31.30	32.97
0.00	0.00	0.00

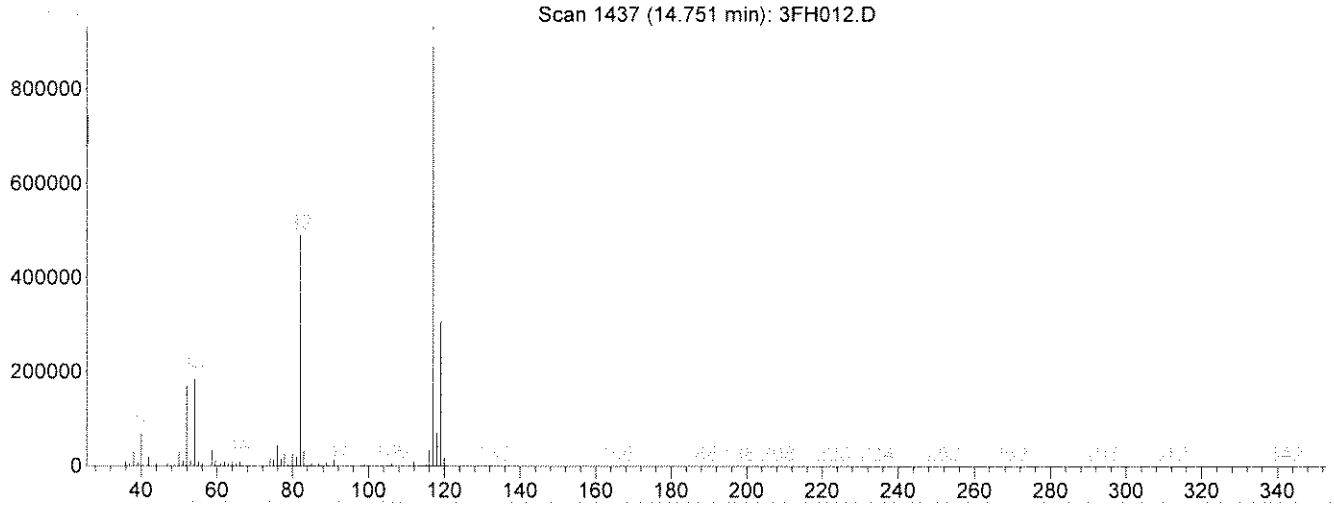
Select One:
[✓] Original Integration [] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date LCD 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 18:13 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 18:13:16 2013
Response via : Multiple Level Calibration





TIC: 3FH012.D

(58) Chlorobenzene-d5(IS) (i)

14.75min 50.00ug/L m

response 1859081

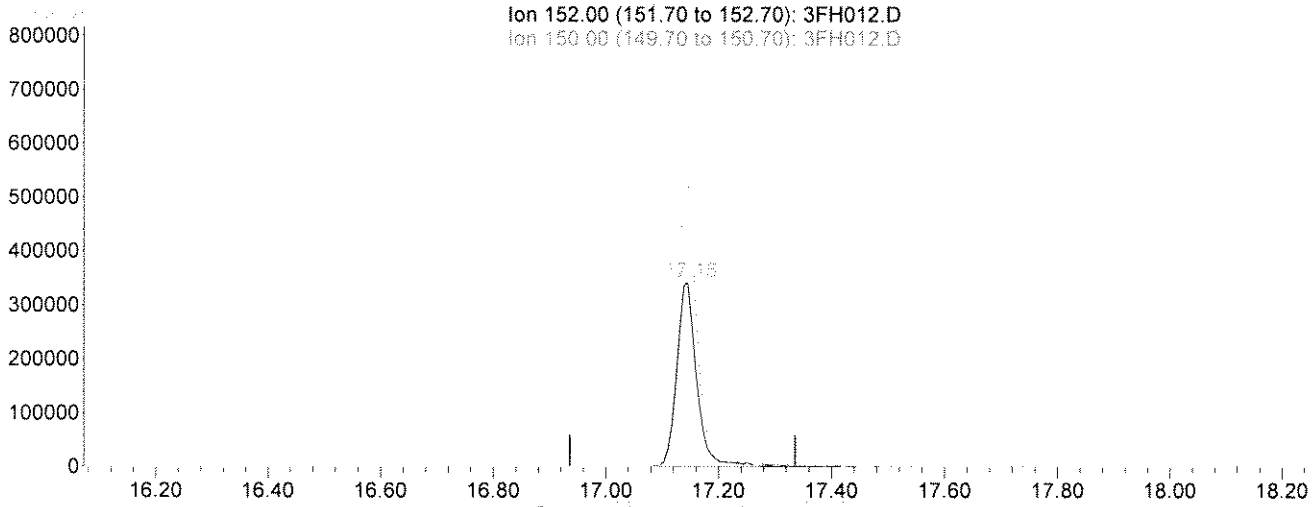
Ion	Exp%	Act%
117.00	100	100
82.00	60.40	53.03
119.00	31.30	34.28
0.00	0.00	0.00

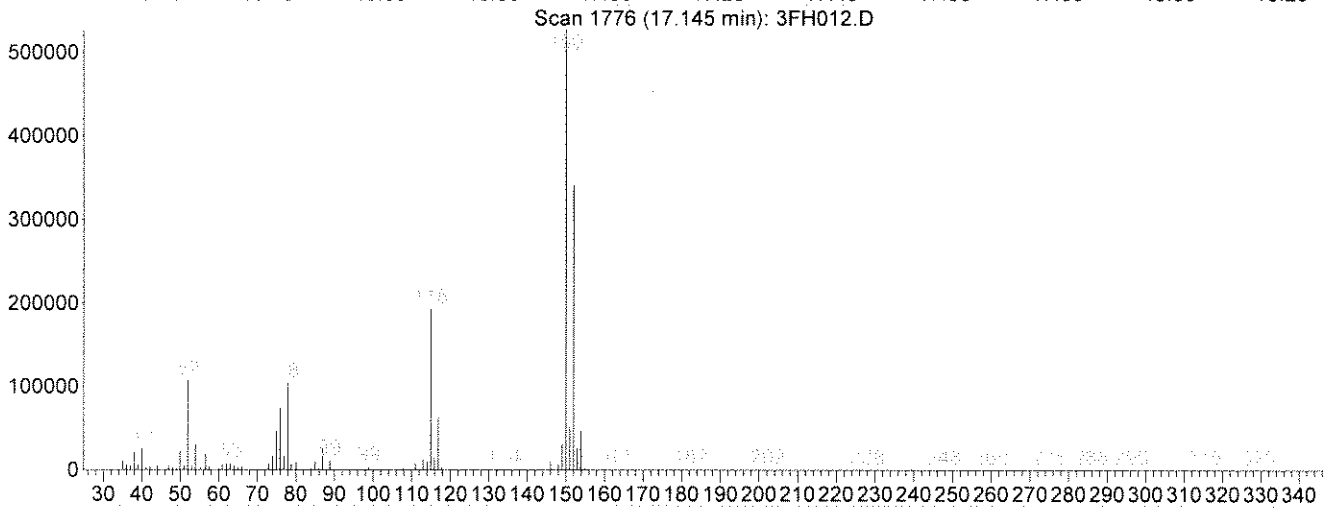
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date HD 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 18:43 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 18:44:18 2013
Response via : Multiple Level Calibration





(81) 1,4-Dichlorobenzene-d4(IS) (i)

17.15min 50.00ug/L

response 830578

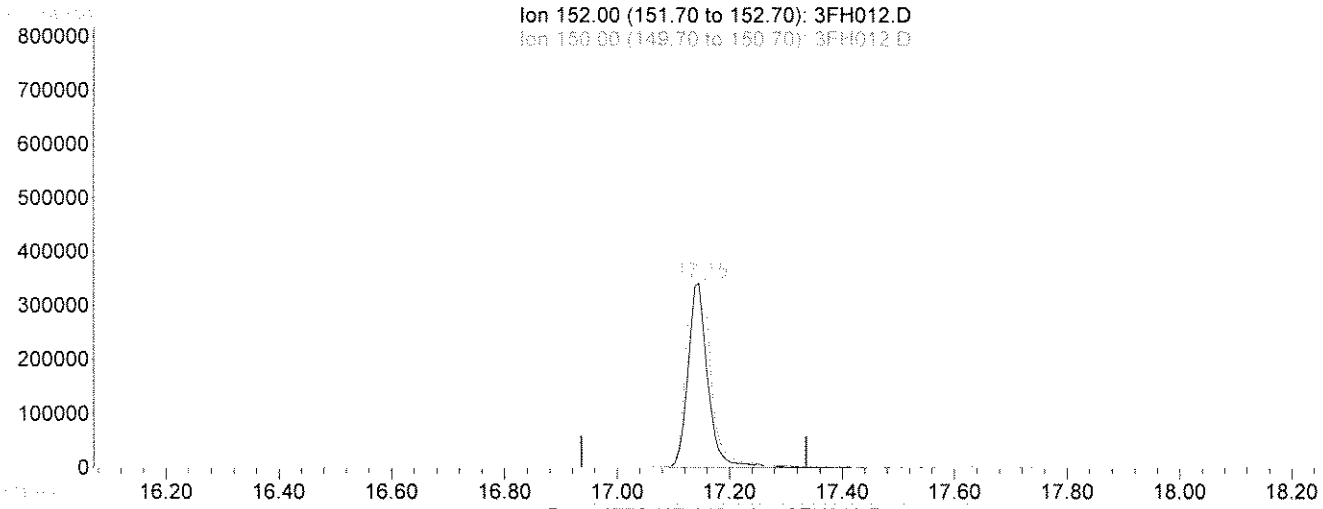
Ion	Exp%	Act%
152.00	100	100
150.00	156.10	154.66
115.00	55.70	58.93
0.00	0.00	0.00

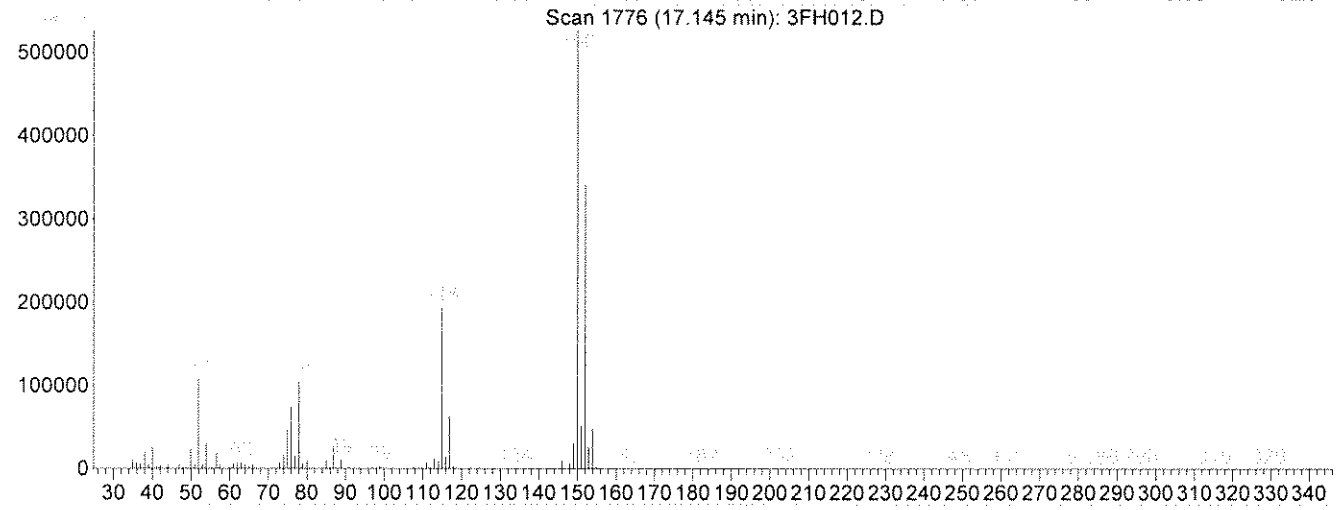
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date LTD 6/14/13
Review by/Date: MP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH012.D Vial: 12
Acq On : 13 Jun 2013 15:16 Operator: kwb
Sample : aa24527-cal1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 18:48 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 18:44:18 2013
Response via : Multiple Level Calibration





TIC: 3FH012.D

(81) 1,4-Dichlorobenzene-d4(IS) (i)

17.15min 50.00ug/L m

response 834015

Ion	Exp%	Act%
152.00	100	100
150.00	156.10	154.03
115.00	55.70	58.69
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date 6/26/13
Review by/Date: NP 6/14/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D
Acq On : 13 Jun 2013 15:46
Sample : aa24527-cal2
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 19:04 2013

Vial: 13
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 14:39:12 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1416061m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2359540m	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	2059069m	50.00	ug/L	0.00
81) 1,4-Dichlorobenzene-d4(IS)	17.14	152	950749m	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	11.09	113	123672	5.38	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery	= 10.76%#		
44) 1,2-Dichloroethane-d4	11.66	65	100487	4.88	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery	= 9.76%#		
56) D8-Toluene	13.35	98	270863	4.90	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery	= 9.80%#		
77) Bromofluorobenzene	15.90	95	100430	4.83	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery	= 9.66%#		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.98	85	151339	5.20	ug/L	90
3) Chloromethane	5.53	50	154253	5.34	ug/L	98
4) Vinyl Chloride	5.77	62	156901	5.19	ug/L	99
5) Bromomethane	6.57	94	110627	5.26	ug/L	87
6) Chloroethane	6.86	64	95134	5.91	ug/L	89
7) Trichlorofluoromethane	7.14	101	193561	5.11	ug/L	94
8) Trichlorotrifluoroethane	8.11	101	142466	5.70	ug/L	83
9) acrolein	8.61	56	74614	44.76	ug/L	96
10) Acetone	9.04	43	22331	4.19	ug/L	87
11) 1,1-Dichloroethene	8.07	96	101866	5.34	ug/L	68
12) 3-Chloropropene	8.81	76	45112	4.78	ug/L	57
13) Acetonitrile	9.69	41	82103	53.66	ug/L	96
14) Iodomethane	8.35	142	142426	6.10	ug/L	97
15) Carbon disulfide	8.16	76	392019	5.74	ug/L	97
16) Methylene Chloride	8.97	84	121269	5.50	ug/L #	76
17) Methyl tert-butyl ether	9.31	73	98145	4.33	ug/L	94
18) Acrylonitrile	10.07	53	221870	55.14	ug/L	97
19) T-1,2-Dichloroethene	9.19	96	101021	5.18	ug/L	65
20) Isopropyl Ether	9.76	45	229905	4.24	ug/L	97
21) C-1,2-Dichloroethene	10.62	96	89406	4.60	ug/L	83
22) 1,1-Dichloroethane	10.00	63	182494	5.30	ug/L	93
23) Vinyl Acetate	10.22	43	155011	4.37	ug/L	95
24) Chloroprene	9.96	53	85809	4.04	ug/L	69
25) 2-Butanone	11.19	72	4062	4.34	ug/L	13
26) Propionitrile	11.54	54	85637	54.44	ug/L	100
27) 2,2-Dichloropropane	10.75	77	123660	5.25	ug/L	100
28) Methacrylonitrile	11.55	67	273244	55.09	ug/L	89
29) Chloroform	10.88	83	194690	5.37	ug/L	96
31) Dibromofluoromethane	0.00	113		No Calib		
32) Bromochloromethane	10.85	128	57546	5.26	ug/L	77
33) 1,1,1-Trichloroethane	11.15	97	150136	5.48	ug/L	93
34) 1,1-Dichloropropene	11.26	75	93654	4.39	ug/L	90
35) Diethyl ether	7.70	59	76859	5.06	ug/l	97
36) Methyl Acetate	9.18	74	10222	5.39	ug/l #	79
37) Cyclohexane	10.86	56	121104	4.38	ug/l #	76

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:04 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 14:39:12 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Methyl Cyclohexane	12.07	55	143227	4.97 ug/l #	81
40)	Carbon Tetrachloride	11.07	117	132152	5.31 ug/L	96
41)	1,2-Dichloroethane	11.72	62	128208	5.58 ug/L	94
42)	Benzene	11.52	78	384051	5.27 ug/L	74
43)	Isobutyl Alcohol	11.59	43	55103	96.87 ug/L #	1
45)	1,2-Dichloroethane-d4	0.00	65		No Calib	
46)	Trichloroethene	12.07	130	111677	5.36 ug/L	94
47)	1,2-Dichloropropane	12.59	63	92266	5.15 ug/L	88
48)	Methyl Methacrylate	12.66	100	16116	5.02 ug/L	84
49)	1,4-Dioxane	12.78	88	10770	103.56 ug/L	98
50)	Bromodichloromethane	12.60	83	130693	5.50 ug/L	97
51)	Dibromomethane	12.51	93	65393	5.56 ug/L	90
52)	4-Methyl-2-Pentanone	13.67	100	8011	5.98 ug/L	91
53)	2-Chloroethyl vinyl ether	13.10	63	989	4.74 ug/L	55
54)	2-Hexanone	14.38	43	36378	4.90 ug/L	93
55)	C-1,3-Dichloropropene	13.18	75	109660	4.33 ug/L	84
57)	D8-Toluene	0.00	98		No Calib	
59)	Toluene	13.39	92	199349	5.09 ug/L	97
60)	Ethyl Methacrylate	13.77	69	58385	4.11 ug/L	89
61)	T-1,3-Dichloropropene	13.73	75	91670	4.80 ug/L	90
62)	1,1,2-Trichloroethane	13.89	97	77749	5.04 ug/L	94
63)	1,3-Dichloropropane	14.15	76	119816	4.97 ug/L	96
64)	Tetrachloroethene	13.75	164	76673	5.00 ug/L	92
65)	Dibromochloromethane	14.08	129	92812	5.07 ug/L	98
66)	1,2-Dibromoethane	14.34	107	76904	5.03 ug/L	96
67)	Chlorobenzene	14.77	112	302488	5.62 ug/L	95
68)	1,1,1,2-Tetrachloroethane	14.81	131	98900	5.45 ug/L #	1
69)	Ethylbenzene	14.74	106	87584	4.15 ug/L	100
70)	m-xylene & p-xylene	14.85	106	315241	10.89 ug/L	84
71)	O-Xylene	15.27	106	117434	4.56 ug/L	89
72)	Bromoform	15.43	173	58753	5.17 ug/L	98
73)	Styrene	15.32	104	207128	4.88 ug/L	94
74)	Isopropylbenzene	15.55	105	304794	4.69 ug/L	94
75)	1,2,3-Trichloropropane	16.23	75	91721	5.30 ug/L	97
76)	1,1,2,2-Tetrachloroethane	16.02	83	99307	5.08 ug/L	98
78)	Bromofluorobenzene	0.00	95		No Calib #	
79)	T-1,4-dichloro-2-butene	16.21	53	14608	5.88 ug/L #	1
80)	N-Propylbenzene	15.96	91	459614	5.94 ug/L	95
82)	Bromobenzene	16.05	156	103711	5.38 ug/L	74
83)	1,3,5-Trimethylbenzene	16.11	105	270611	5.26 ug/L	98
84)	2-Chlorotoluene	16.20	91	275540	5.54 ug/L	87
85)	4-Chlorotoluene	16.37	91	225193	4.84 ug/L	92
86)	1,2,4-Trimethylbenzene	16.57	105	265961	5.21 ug/L	92
87)	s-Butylbenzene	16.69	105	367113	5.16 ug/L	100
88)	tert-Butylbenzene	16.50	119	224344	4.83 ug/L	89
89)	p-Isopropyltoluene	16.81	119	244499	4.94 ug/L	95
90)	1,3-Dichlorobenzene	17.07	146	180418	5.24 ug/L	96
91)	1,4-Dichlorobenzene	17.17	146	208526	5.44 ug/L	94
92)	1,2-Dichlorobenzene	17.73	146	154861	4.91 ug/L	96
93)	N-Butylbenzene	17.34	91	242041	4.84 ug/L	94
94)	DBCP	18.91	75	12029	5.81 ug/L	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:04 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 14:39:12 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

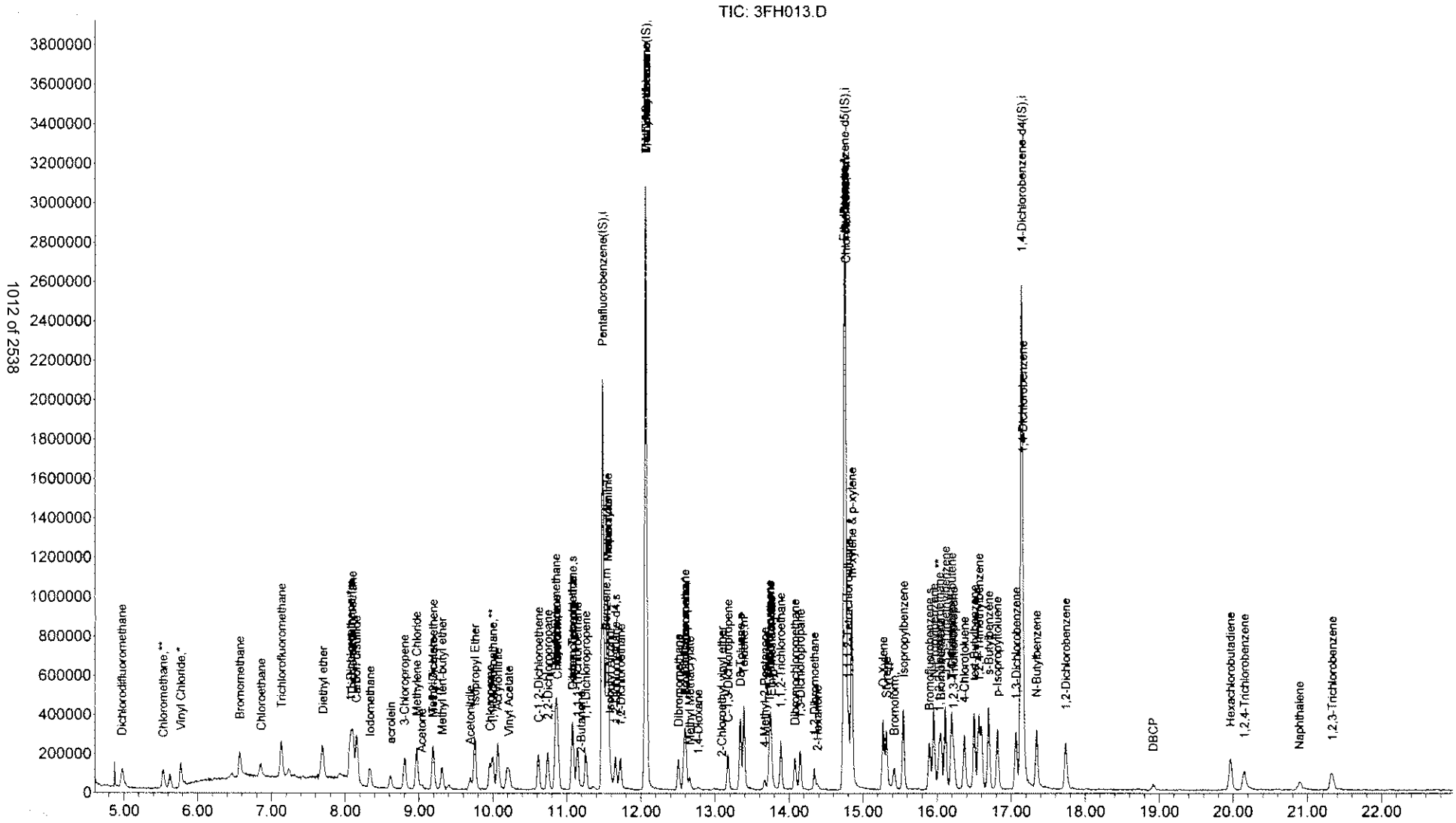
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Naphthalene	20.89	128	168781	6.20	ug/L	100
96)	1,2,4-Trichlorobenzene	20.15	180	112044	6.45	ug/L	93
97)	Hexachlorobutadiene	19.96	225	61242	5.48	ug/L	93
98)	1,2,3-Trichlorobenzene	21.33	180	80402	5.12	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:04 2013 Quant Results File: W1306033.RES

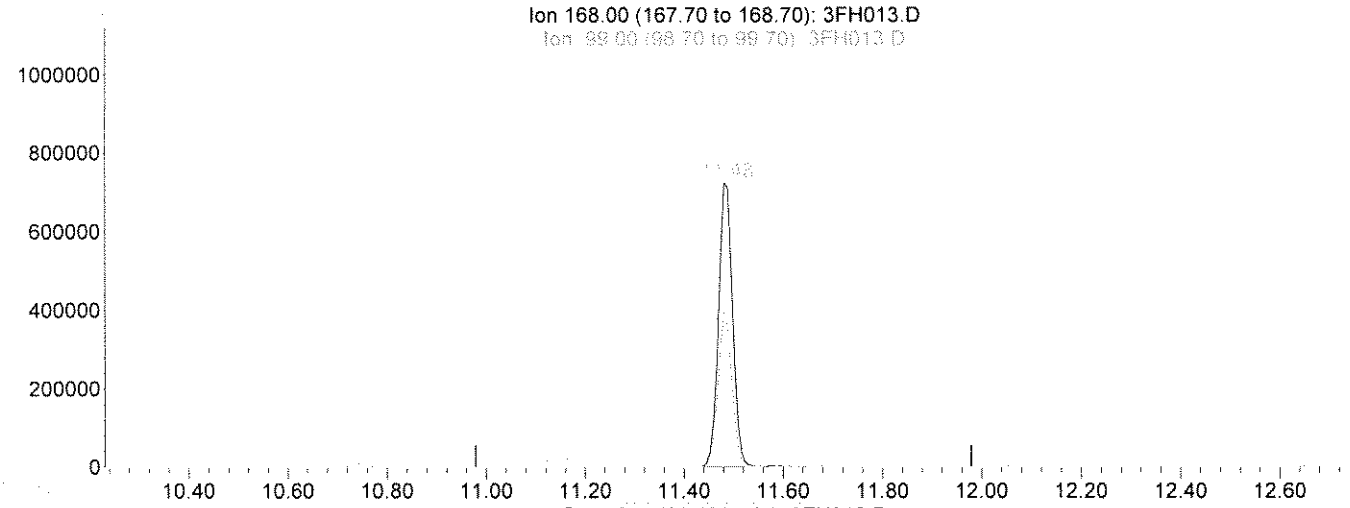
Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

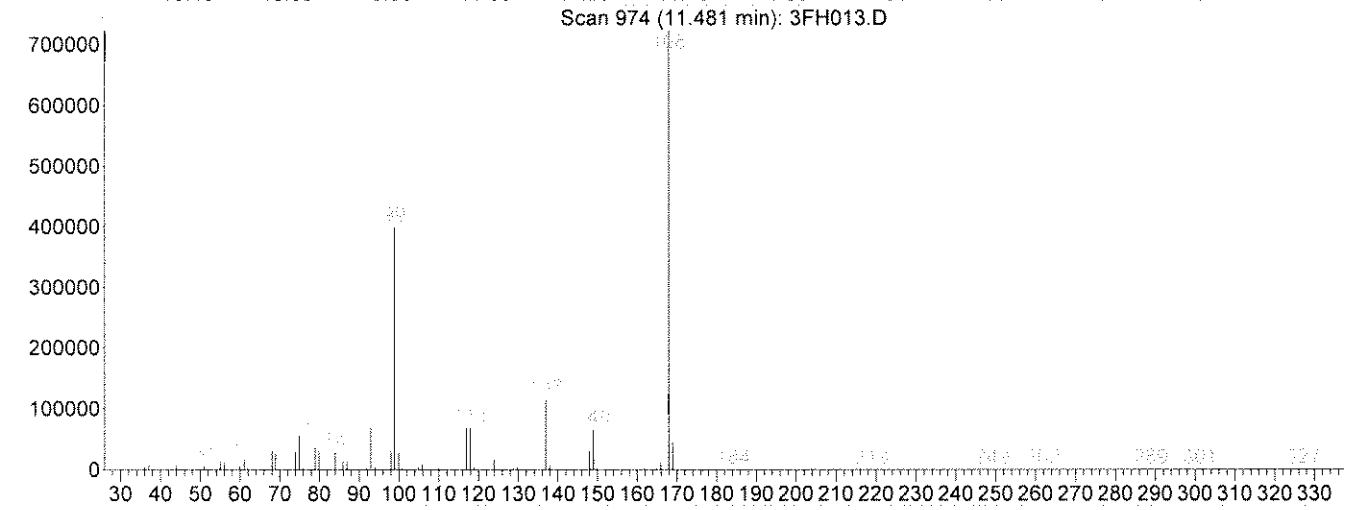


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 16:17 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 17:16:44 2013
Response via : Multiple Level Calibration





TIC: 3FH013.D

(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L

response 1413851

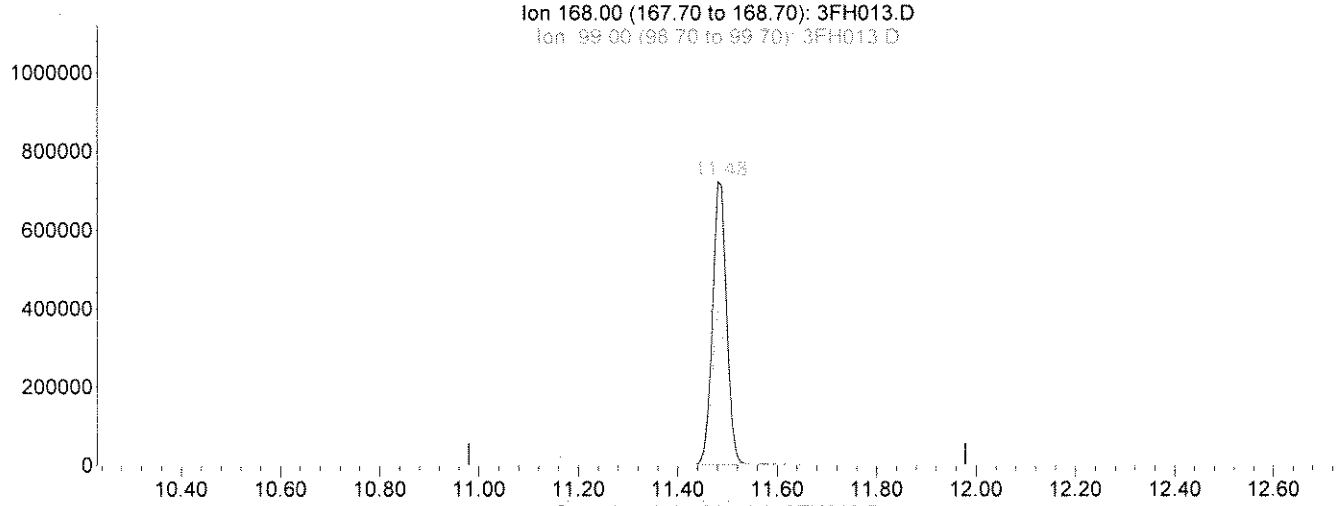
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	53.90
169.00	6.30	6.47
0.00	0.00	0.00

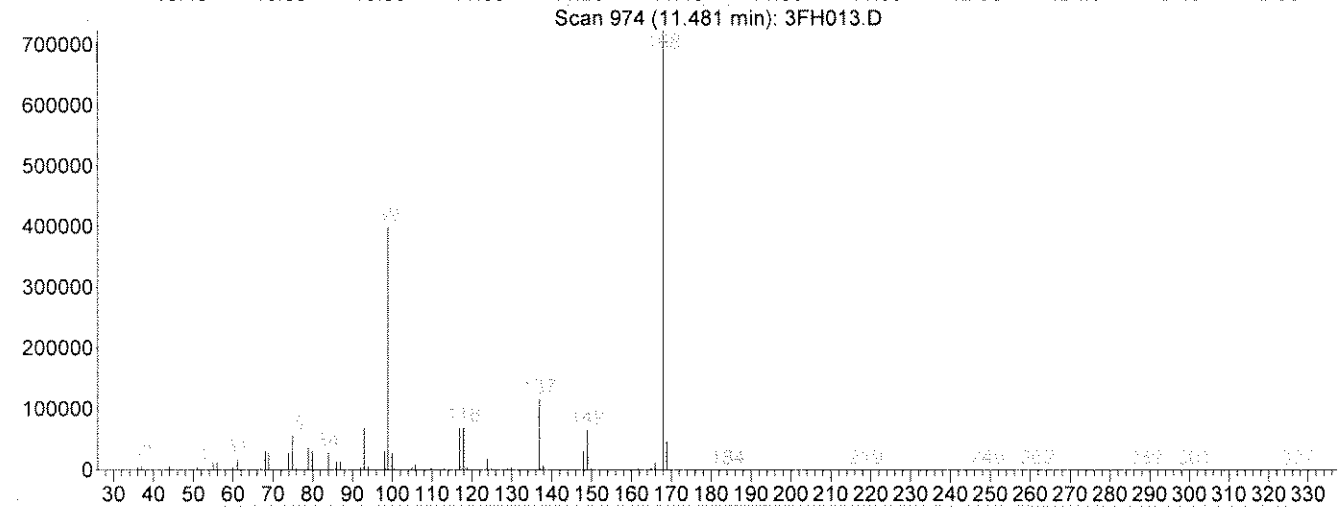
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT 061413
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:22 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 17:16:44 2013
Response via : Multiple Level Calibration





TIC: 3FH013.D

(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L m

response 1416061

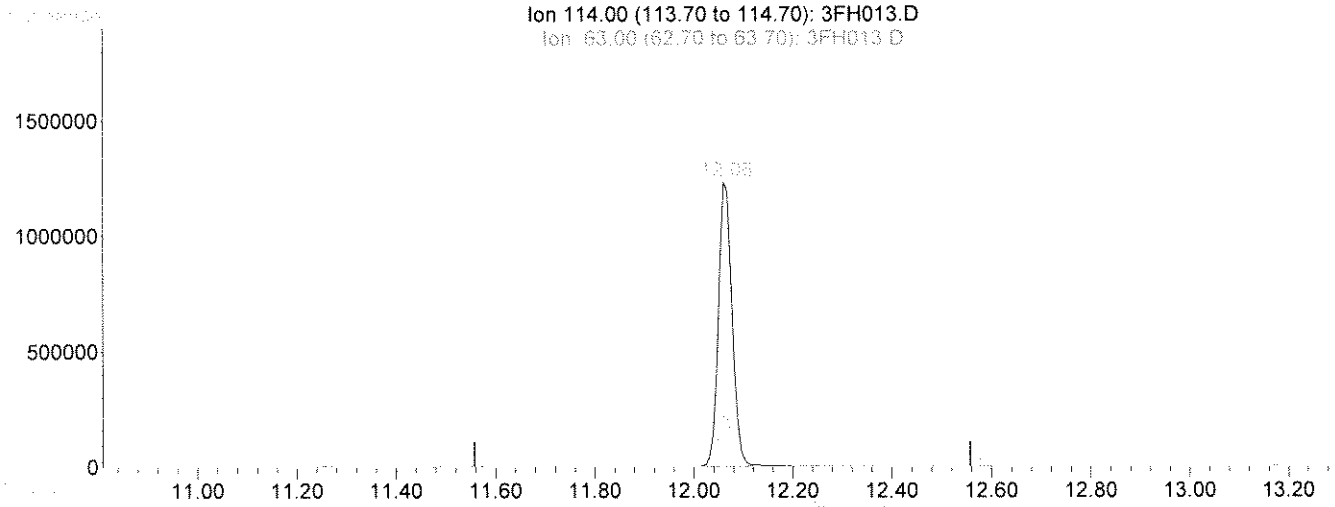
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	53.81
169.00	6.30	6.46
0.00	0.00	0.00

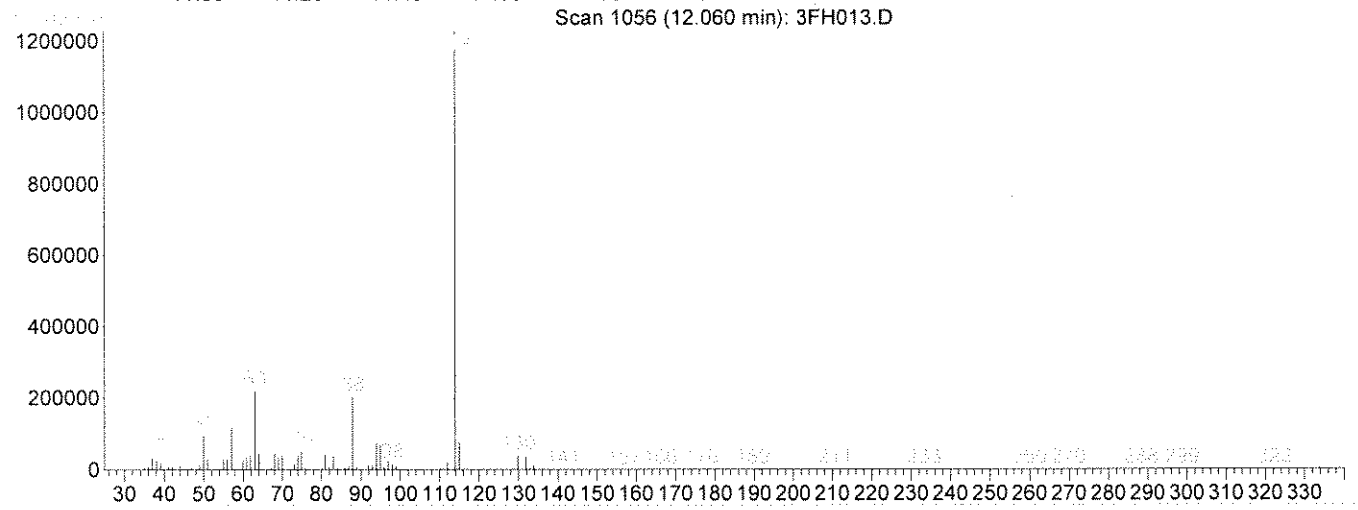
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date LE 06/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:58 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 17:52:56 2013
Response via : Multiple Level Calibration





TIC: 3FH013.D

(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L

response 2351404

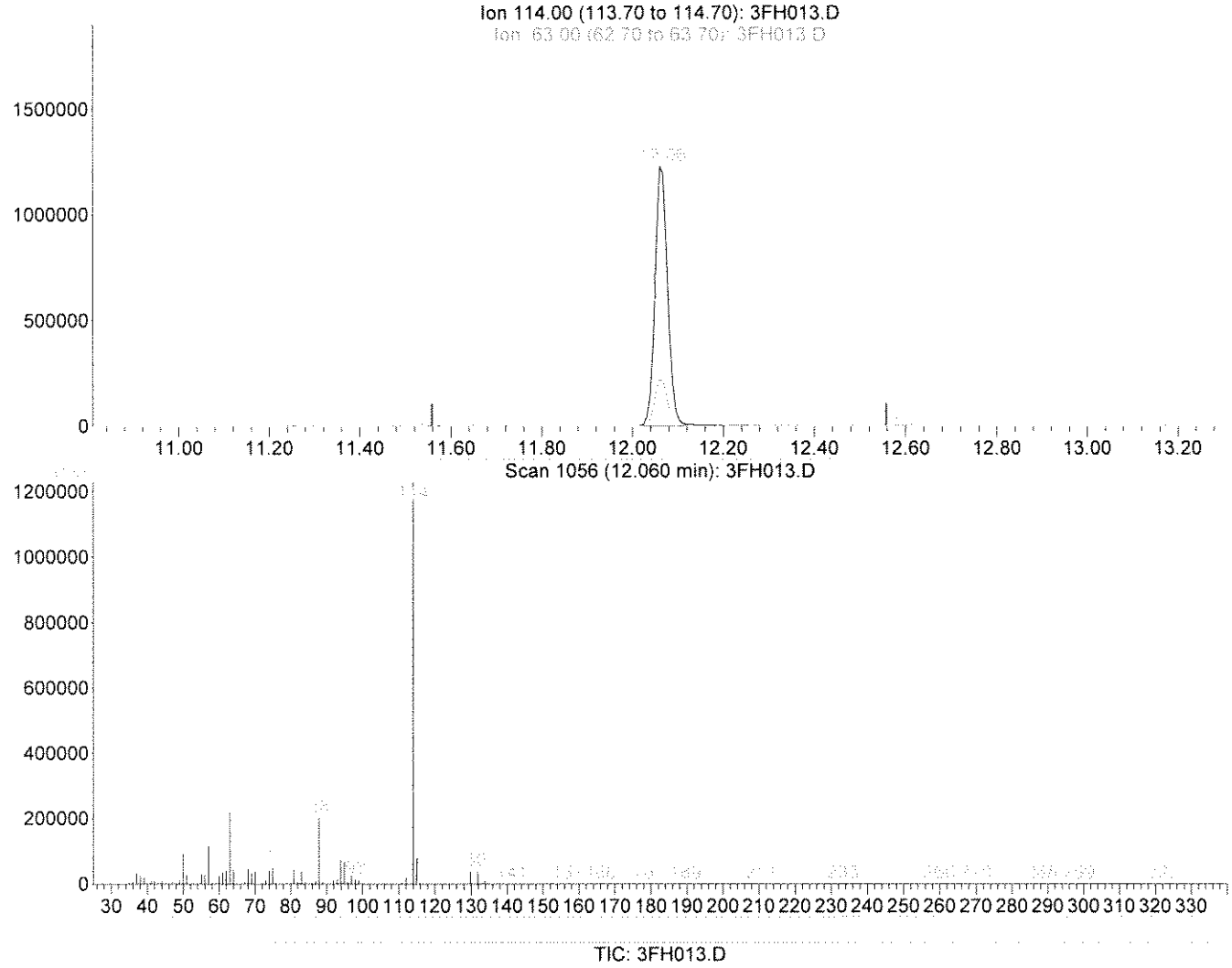
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	18.23
88.00	20.10	16.22
0.00	0.00	0.00

Select One:
✓ [] Original Integration [] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date kt 061413
Review by/Date: NP 061413

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:59 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 17:52:56 2013
Response via : Multiple Level Calibration



(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L m

response 2359540

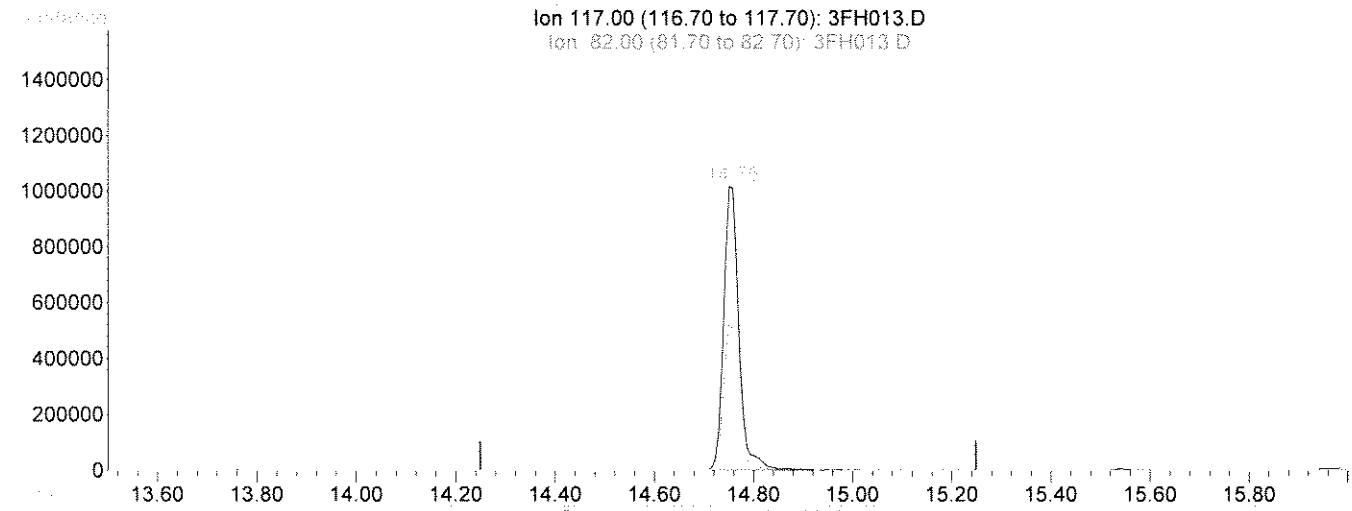
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	18.17
88.00	20.10	16.17
0.00	0.00	0.00

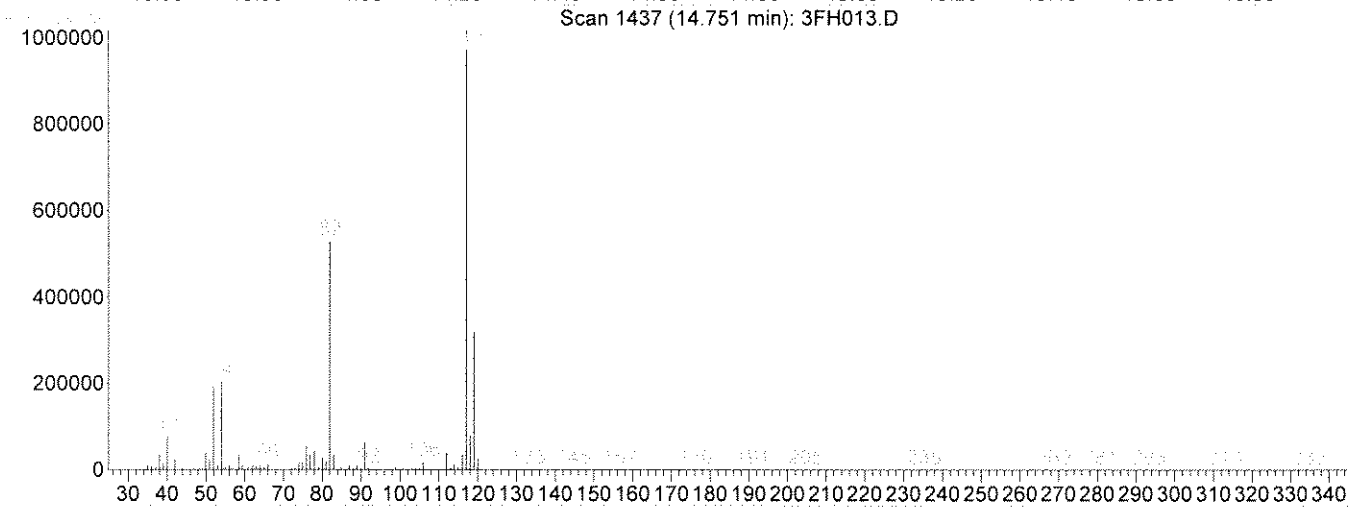
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date LC 061413
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 18:04 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 18:04:53 2013
Response via : Multiple Level Calibration





TIC: 3FH013.D

(58) Chlorobenzene-d5(IS) (i)

14.75min 50.00ug/L

response 2145300

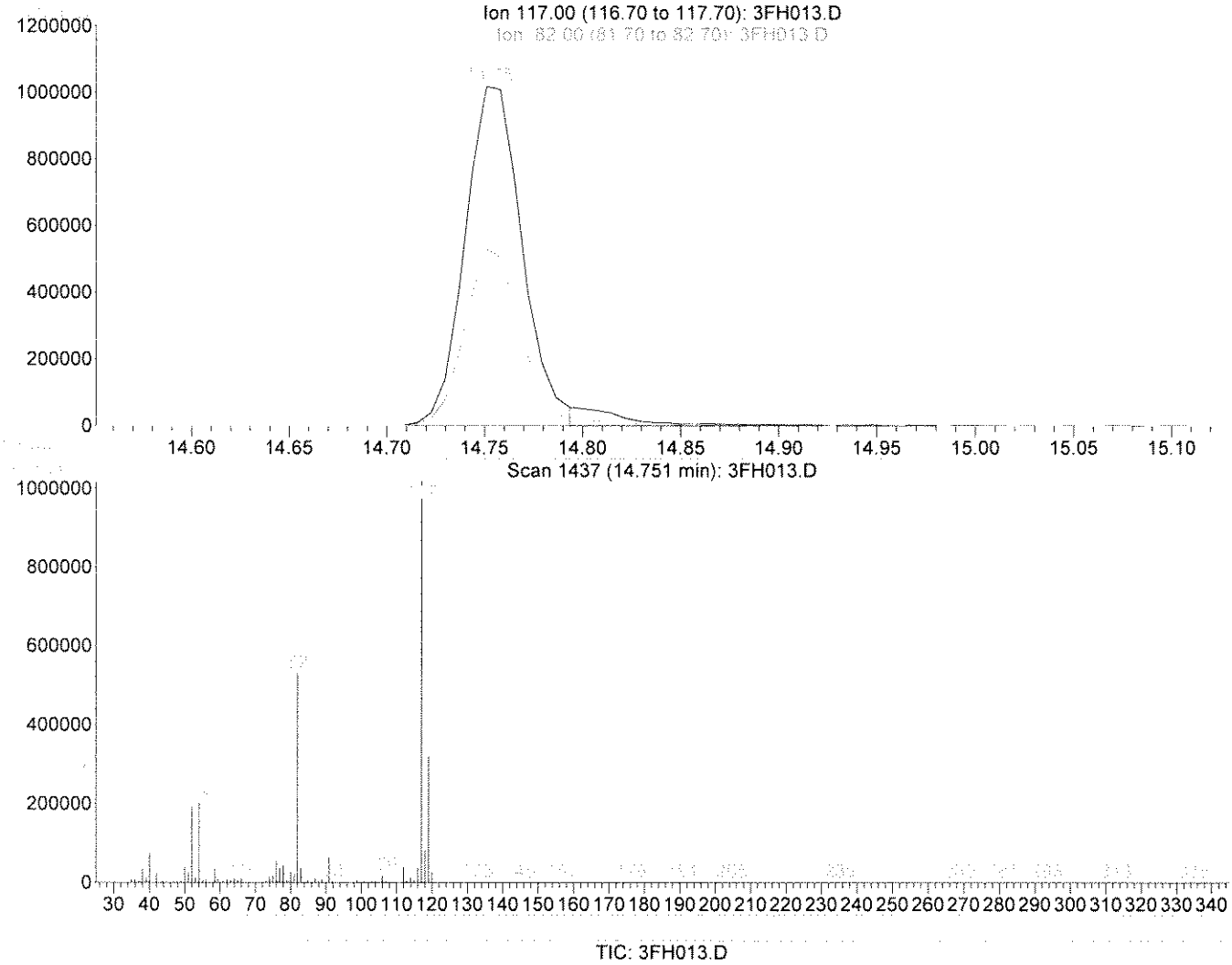
Ion	Exp%	Act%
117.00	100	100
82.00	60.40	50.03
119.00	31.30	34.00
0.00	0.00	0.00

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KC 061413
Review by/Date: MP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:04 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration



(58) Chlorobenzene-d5(IS) (i)

14.75min 50.00ug/L m

response 2059069

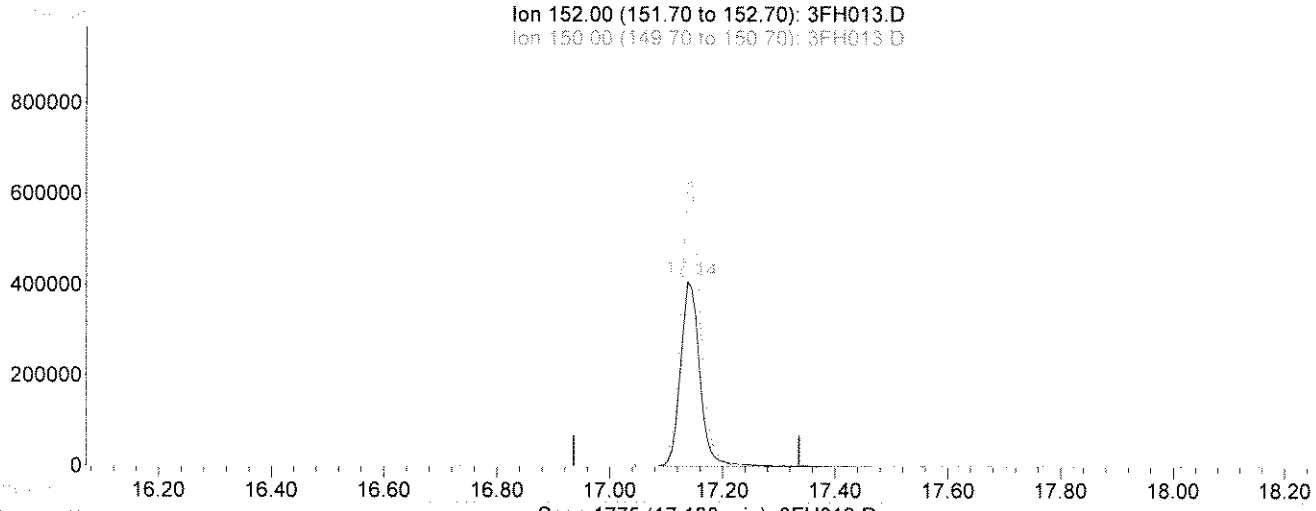
Ion	Exp%	Act%
117.00	100	100
82.00	60.40	52.13
119.00	31.30	35.42
0.00	0.00	0.00

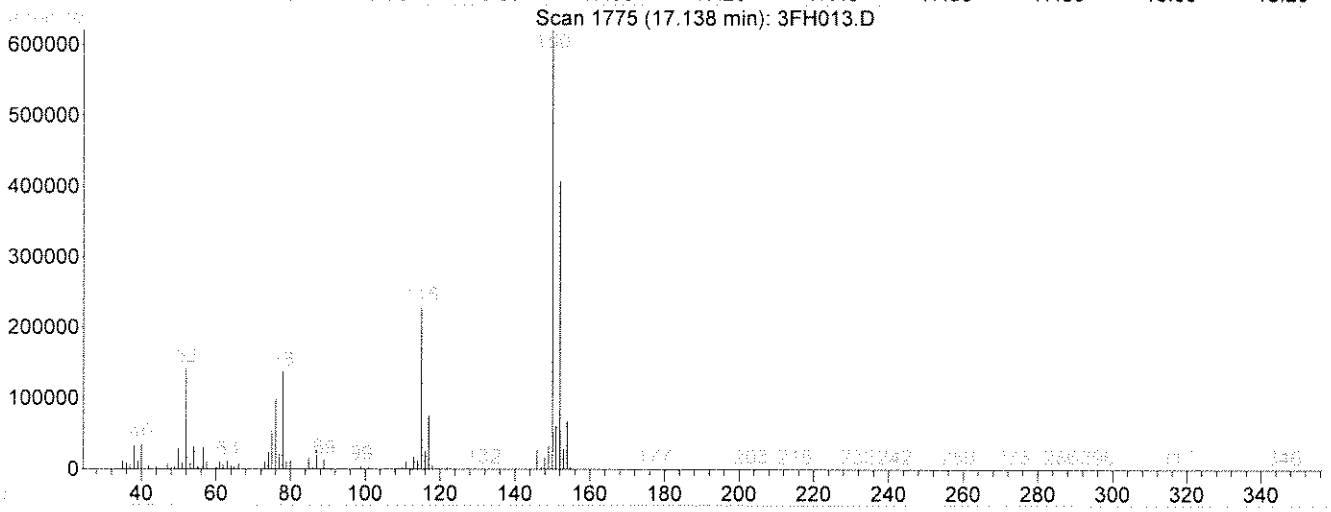
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date 0614/13
Review by/Date: 06/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 18:44 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 18:52:23 2013
Response via : Multiple Level Calibration





TIC: 3FH013.D

(81) 1,4-Dichlorobenzene-d4(IS) (i)

17.14min 50.00ug/L

response 965756

Ion	Exp%	Act%
152.00	100	100
150.00	156.10	155.04
115.00	55.70	58.23
0.00	0.00	0.00

Select One:

[✓] Original Integration [ ] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[ ] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

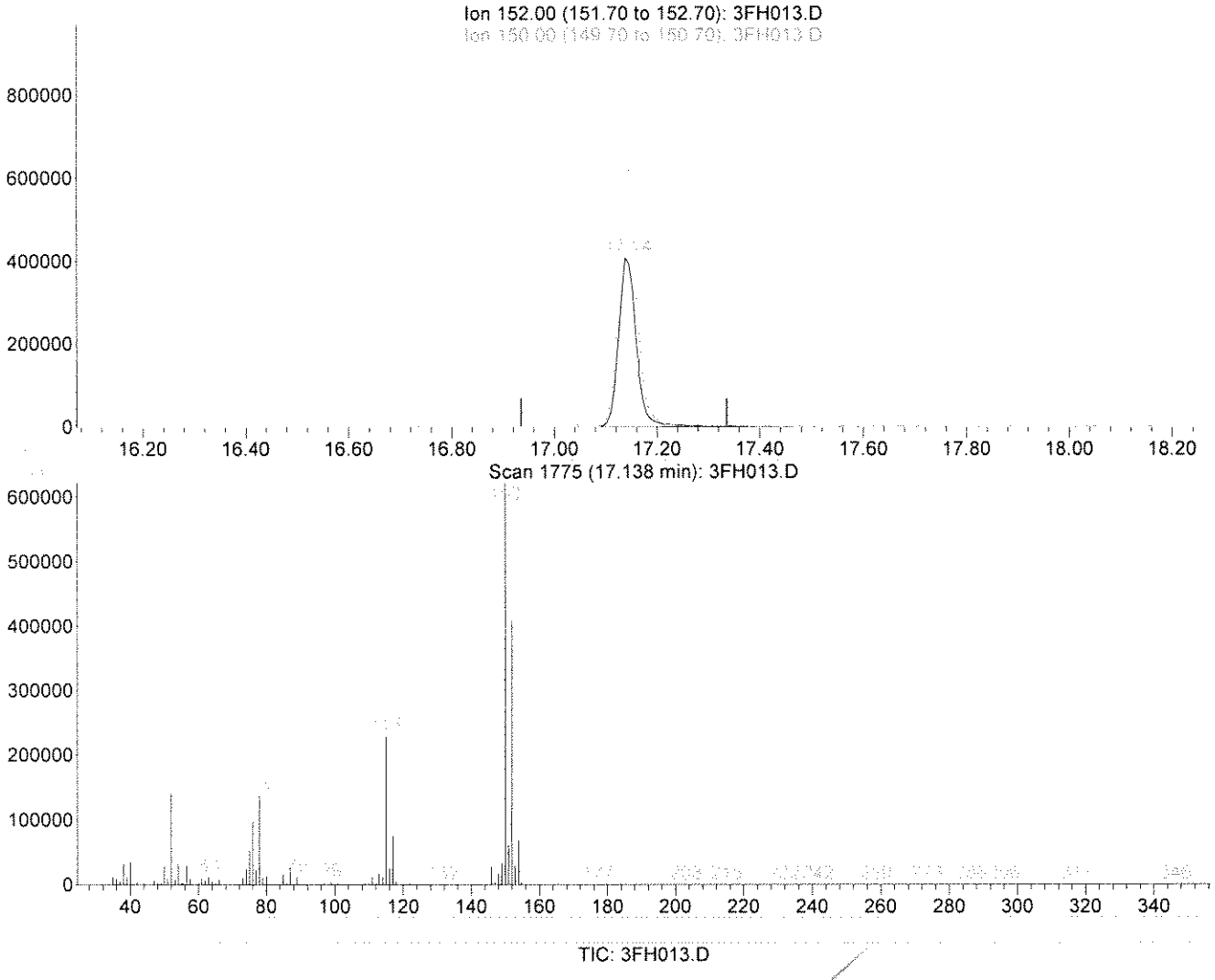
Review by/Date: 6/26/13

Review by/Date: NPG 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH013.D Vial: 13
Acq On : 13 Jun 2013 15:46 Operator: kwb
Sample : aa24527-cal2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 18:52 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 18:52:23 2013
Response via : Multiple Level Calibration



(81) 1,4-Dichlorobenzene-d4(IS) (i)

17.14min 50.00ug/L m

response 950749

Ion	Exp%	Act%
152.00	100	100
150.00	156.10	157.48
115.00	55.70	59.15
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date KT 061413
Review by/Date: MP 6/14/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH005.D
Acq On : 13 Jun 2013 11:44
Sample : aa24527-cal3
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 19:05 2013

Vial: 5
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 06/14/13

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1551749	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2551441	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	2362747	50.00 ug/L	-0.01
81) 1,4-Dichlorobenzene-d4(IS)	17.14	152	1137228	50.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	11.08	113	525361	24.87 ug/L	-0.01
Spiked Amount 50.000	Range 53 - 146		Recovery =	49.74%#	
44) 1,2-Dichloroethane-d4	11.65	65	444392	17.96 ug/l	-0.01
Spiked Amount 50.000	Range 45 - 174		Recovery =	35.92%#	
56) D8-Toluene	13.34	98	1387908	23.10 ug/L	-0.01
Spiked Amount 50.000	Range 41 - 146		Recovery =	46.20%	
77) Bromofluorobenzene	15.89	95	516707	19.06 ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery =	38.12%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.98	85	667761	20.59 ug/L	90
3) Chloromethane	5.53	50	650229	14.42 ug/L	99
4) Vinyl Chloride	5.77	62	700012	22.10 ug/L	97
5) Bromomethane	6.56	94	447462	35.31 ug/L	84
6) Chloroethane	6.84	64	402921	29.77 ug/L	88
7) Trichlorofluoromethane	7.13	101	895594	27.82 ug/L	98
8) Trichlorotrifluoroethane	8.10	101	582750	29.58 ug/L	77
9) acrolein	8.61	56	383244	636.22 ug/L	97
10) Acetone	9.04	43	114220	15.42 ug/L	94
11) 1,1-Dichloroethene	8.06	96	436395	29.50 ug/L	68
12) 3-Chloropropene	8.80	76	221089	17.76 ug/L	55
13) Acetonitrile	9.69	41	336461	110.72 ug/L	82
14) Iodomethane	8.33	142	530263	20.28 ug/L	96
15) Carbon disulfide	8.15	76	1678427	24.68 ug/L	95
16) Methylene Chloride	8.97	84	500158	18.97 ug/L #	79
17) Methyl tert-butyl ether	9.30	73	509660	13.27 ug/L	93
18) Acrylonitrile	10.07	53	1012609	166.80 ug/L	99
19) T-1,2-Dichloroethene	9.19	96	436783	18.31 ug/L	71
20) Isopropyl Ether	9.75	45	1313699	13.76 ug/L	94
21) C-1,2-Dichloroethene	10.61	96	451696	19.62 ug/L	78
22) 1,1-Dichloroethane	10.00	63	797925	16.99 ug/L	93
23) Vinyl Acetate	10.22	43	880871	14.24 ug/L	95
24) Chloroprene	9.95	53	506026	14.18 ug/L	78
25) 2-Butanone	11.20	72	20663	15.14 ug/L	95
26) Propionitrile	11.54	54	397099	164.61 ug/L	100
27) 2,2-Dichloropropane	10.75	77	527537	17.58 ug/L	96
28) Methacrylonitrile	11.55	67	1285022	204.57 ug/L	90
29) Chloroform	10.88	83	815102	18.73 ug/L	95
31) Dibromofluoromethane	11.08	113	525361	24.87 ug/L	100
32) Bromochloromethane	10.84	128	255135	24.17 ug/L	77
33) 1,1,1-Trichloroethane	11.14	97	617129	19.92 ug/L	94
34) 1,1-Dichloropropene	11.25	75	529139	17.69 ug/L	90
35) Diethyl ether	7.69	59	341551	24.49 ug/l	92
36) Methyl Acetate	9.17	74	49522	18.70 ug/l #	63
37) Cyclohexane	10.86	56	738379	17.00 ug/l #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH005.D Vial: 5
Acq On : 13 Jun 2013 11:44 Operator: kwb
Sample : aa24527-cal3 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:05 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	12.08	55	649617	15.95 ug/l #	79
40) Carbon Tetrachloride	11.07	117	570817	23.12 ug/L	96
41) 1,2-Dichloroethane	11.72	62	511669	16.57 ug/L	95
42) Benzene	11.52	78	1678383	18.90 ug/L	72
43) Isobutyl Alcohol	11.58	43	253837	211.18 ug/L #	1
45) 1,2-Dichloroethane-d4	11.65	65	444392	17.96 ug/l #	91
46) Trichloroethene	12.07	130	464826	23.98 ug/L	88
47) 1,2-Dichloropropane	12.58	63	414617	16.51 ug/L	88
48) Methyl Methacrylate	12.66	100	66538	16.89 ug/L	65
49) 1,4-Dioxane	12.78	88	47193	357.83 ug/L	92
50) Bromodichloromethane	12.60	83	530274	18.20 ug/L	98
51) Dibromomethane	12.50	93	249206	18.10 ug/L #	81
52) 4-Methyl-2-Pentanone	13.67	100	30861	19.53 ug/L	66
53) 2-Chloroethyl vinyl ether	13.17	63	4388	17.74 ug/L	94
54) 2-Hexanone	14.38	43	167471	13.75 ug/L	99
55) C-1,3-Dichloropropene	13.17	75	570465	17.27 ug/L	84
57) D8-Toluene	13.34	98	1387908	23.10 ug/L	93
59) Toluene	13.39	92	982862	18.11 ug/L	97
60) Ethyl Methacrylate	13.76	69	353639	17.06 ug/L #	86
61) T-1,3-Dichloropropene	13.73	75	466475	17.05 ug/L	85
62) 1,1,2-Trichloroethane	13.89	97	340700	19.05 ug/L	95
63) 1,3-Dichloropropane	14.15	76	554321	16.42 ug/L	98
64) Tetrachloroethene	13.75	164	360157	20.76 ug/L	96
65) Dibromochloromethane	14.07	129	413807	22.33 ug/L	97
66) 1,2-Dibromoethane	14.34	107	354596	21.96 ug/L	98
67) Chlorobenzene	14.77	112	1249914	21.55 ug/L	97
68) 1,1,1,2-Tetrachloroethane	14.80	131	408792	21.72 ug/L	96
69) Ethylbenzene	14.73	106	514723	20.61 ug/L	86
70) m-xylene & p-xylene	14.84	106	1451167	43.11 ug/L	86
71) O-Xylene	15.27	106	654574	20.94 ug/L	88
72) Bromoform	15.43	173	256822	22.65 ug/L	98
73) Styrene	15.31	104	1107741	21.86 ug/L	96
74) Isopropylbenzene	15.54	105	1763685	21.82 ug/L	95
75) 1,2,3-Trichloropropane	16.23	75	405404	17.87 ug/L	99
76) 1,1,2,2-Tetrachloroethane	16.02	83	454199	20.57 ug/L	97
78) Bromofluorobenzene	15.89	95	516707	19.06 ug/L #	85
79) T-1,4-dichloro-2-butene	16.21	53	62293	13.53 ug/L #	1
80) N-Propylbenzene	15.95	91	2220372	20.64 ug/L	94
82) Bromobenzene	16.05	156	474270	20.07 ug/L	77
83) 1,3,5-Trimethylbenzene	16.11	105	1377714	21.19 ug/L	90
84) 2-Chlorotoluene	16.19	91	1291798	17.63 ug/L	83
85) 4-Chlorotoluene	16.37	91	1202990	17.67 ug/L	92
86) 1,2,4-Trimethylbenzene	16.56	105	1363800	21.26 ug/L	92
87) s-Butylbenzene	16.69	105	1951650	21.11 ug/L	99
88) tert-Butylbenzene	16.49	119	1239878	21.80 ug/L	87
89) p-Isopropyltoluene	16.81	119	1337901	21.82 ug/L	96
90) 1,3-Dichlorobenzene	17.06	146	846583	20.28 ug/L	94
91) 1,4-Dichlorobenzene	17.16	146	884753	20.89 ug/L	97
92) 1,2-Dichlorobenzene	17.73	146	779242	20.31 ug/L	95
93) N-Butylbenzene	17.34	91	1366035	18.47 ug/L	98
94) DBCP	18.91	75	47889	17.25 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH005.D Vial: 5
Acq On : 13 Jun 2013 11:44 Operator: kwb
Sample : aa24527-cal3 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:05 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.89	128	652971m	19.11 ug/L	100
96) 1,2,4-Trichlorobenzene	20.14	180	431590	17.54 ug/L	96
97) Hexachlorobutadiene	19.95	225	258257	18.76 ug/L	100
98) 1,2,3-Trichlorobenzene	21.32	180	369434	18.53 ug/L	98

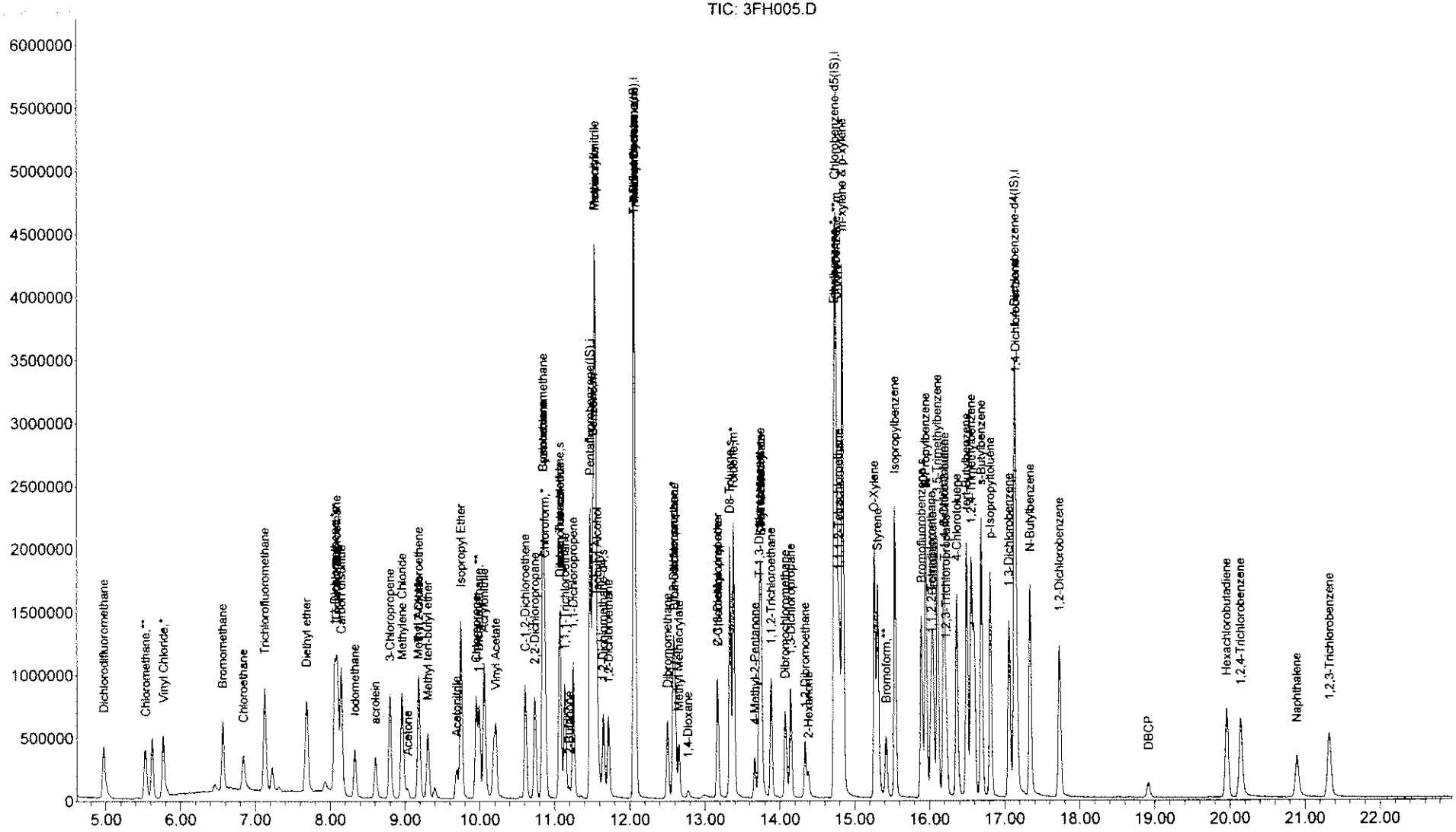
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH005.D Vial: 5
Acq On : 13 Jun 2013 11:44 Operator: kwb
Sample : aa24527-cal3 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:05 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

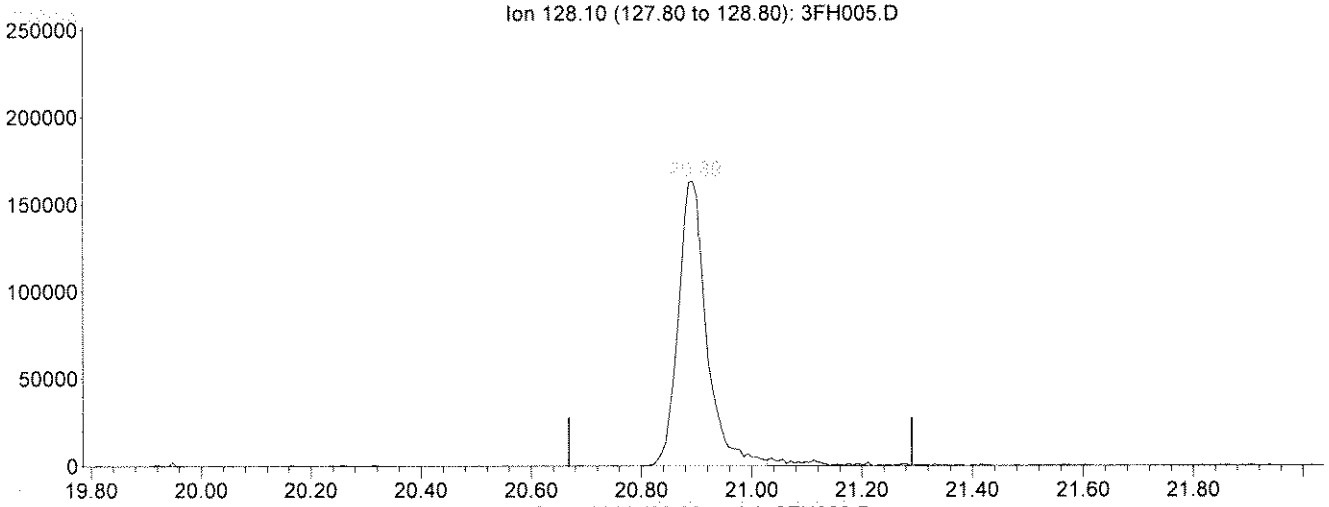
TIC: 3FH005.D

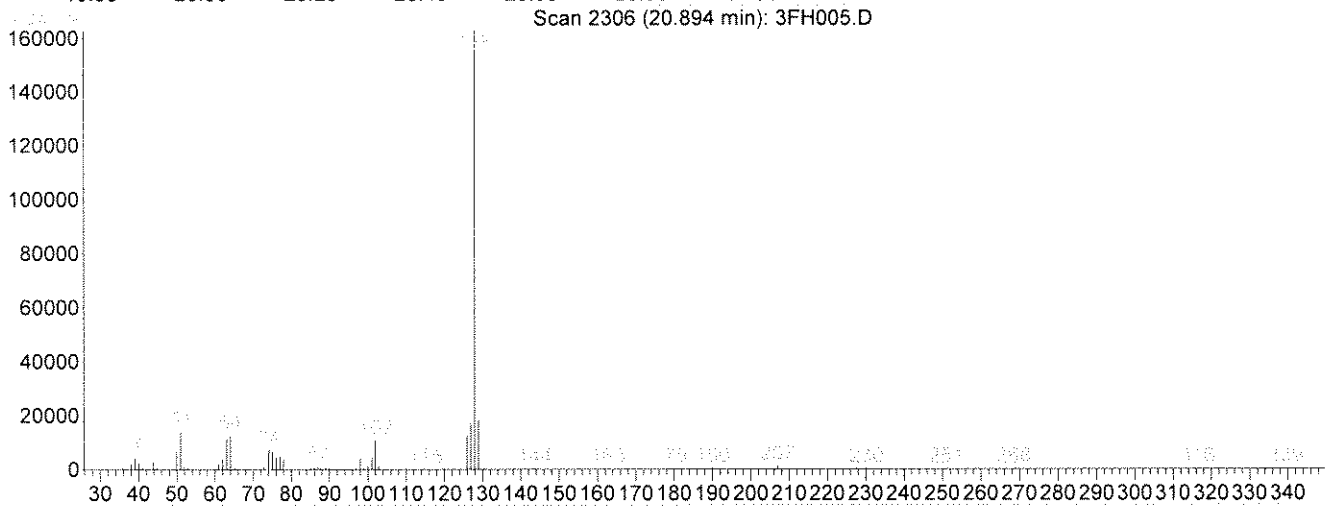


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH005.D Vial: 5
Acq On : 13 Jun 2013 11:44 Operator: kwb
Sample : aa24527-cal3 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 12:55 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 19:04:55 2013
Response via : Multiple Level Calibration





TIC: 3FH005.D

(95) Naphthalene

20.89min 17.04ug/L

response 582326

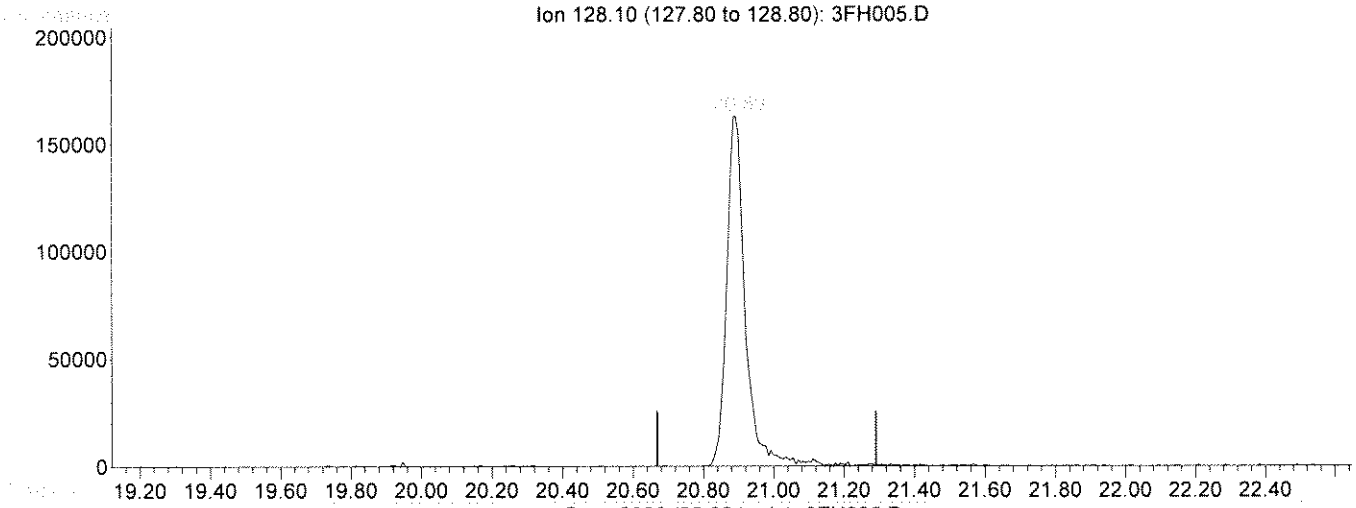
Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

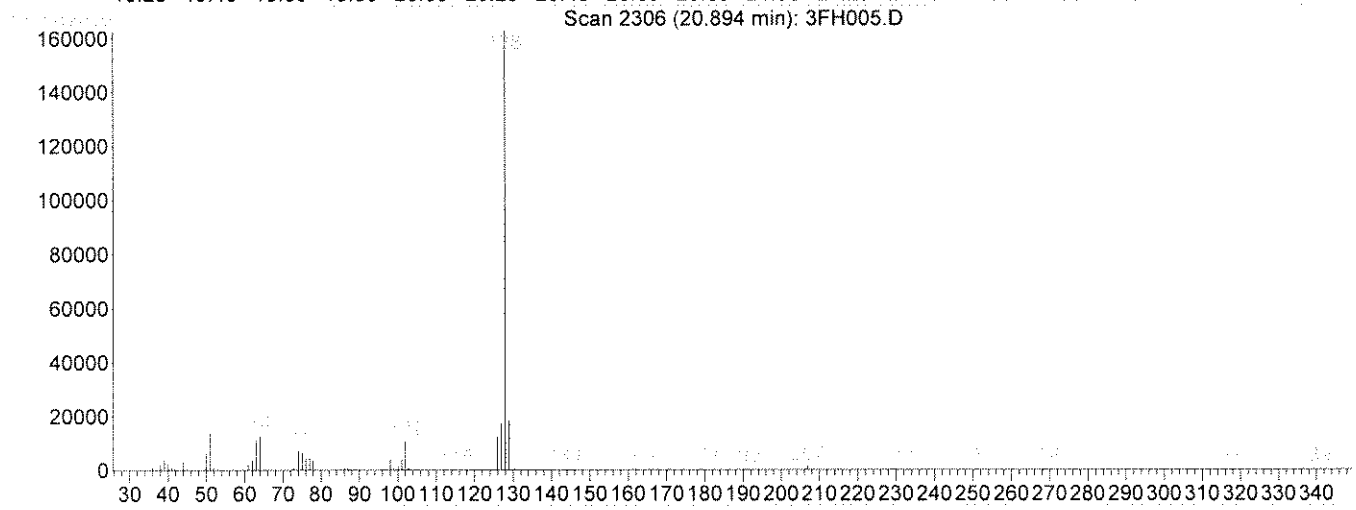
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/26/13
Review by/Date: NP 6/26/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH005.D Vial: 5
Acq On : 13 Jun 2013 11:44 Operator: kwb
Sample : aa24527-cal3 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 19:05 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Thu Jun 13 19:04:55 2013
Response via : Multiple Level Calibration





TIC: 3FH005.D

(95) Naphthalene

20.89min 19.11ug/L m

response 652971

Ion	Exp%	Act%
128.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date KT 061413
Review by/Date: KT 061413
Review by/Date: NP 061413

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH006.D
Acq On : 13 Jun 2013 12:14
Sample : aa24527-cal4
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013

Vial: 6
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1702809	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2884700	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	2552443	50.00 ug/L	-0.01
81) 1,4-Dichlorobenzene-d4(IS)	17.14	152	1233250	50.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	11.08	113	1053352	45.44 ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery =	90.88%	
44) 1,2-Dichloroethane-d4	11.65	65	863231	30.87 ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery =	61.74%	
56) D8-Toluene	13.34	98	2930578	43.14 ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery =	86.28%	
77) Bromofluorobenzene	15.89	95	1073743	36.66 ug/L	-0.01
Spiked Amount 50.000	Range 41 - 142		Recovery =	73.32%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.98	85	1731745	48.65 ug/L	92
3) Chloromethane	5.53	50	1738142	35.13 ug/L	100
4) Vinyl Chloride	5.77	62	1953066	56.19 ug/L	98
5) Bromomethane	6.57	94	1120037	80.54 ug/L	84
6) Chloroethane	6.83	64	984635	66.30 ug/L	91
7) Trichlorofluoromethane	7.12	101	2295846	65.00 ug/L	96
8) Trichlorotrifluoroethane	8.10	101	1544937	71.47 ug/L	78
9) acrolein	8.61	56	1117450	1690.50 ug/L	97
10) Acetone	9.03	43	274426	33.76 ug/L	88
11) 1,1-Dichloroethene	8.06	96	1191248	73.38 ug/L #	65
12) 3-Chloropropene	8.80	76	656374	48.04 ug/L	53
13) Acetonitrile	9.69	41	872939	261.77 ug/L	79
14) Iodomethane	8.33	142	1527160	53.22 ug/L	99
15) Carbon disulfide	8.15	76	4415593	59.17 ug/L	95
16) Methylene Chloride	8.97	84	1294106	44.73 ug/L #	78
17) Methyl tert-butyl ether	9.31	73	1611683	38.24 ug/L	93
18) Acrylonitrile	10.06	53	2864668	430.01 ug/L	99
19) T-1,2-Dichloroethene	9.19	96	1268405	48.46 ug/L	68
20) Isopropyl Ether	9.75	45	3844797	36.69 ug/L #	92
21) C-1,2-Dichloroethene	10.61	96	1318138	52.18 ug/L	78
22) 1,1-Dichloroethane	9.99	63	2130548	41.34 ug/L	94
23) Vinyl Acetate	10.22	43	2581311	38.02 ug/L	93
24) Chloroprene	9.95	53	1584882	40.47 ug/L	80
25) 2-Butanone	11.19	72	70590	47.15 ug/L	68
26) Propionitrile	11.53	54	1034836	390.92 ug/L	100
27) 2,2-Dichloropropane	10.74	77	1496821	45.45 ug/L	94
28) Methacrylonitrile	11.55	67	3448362	500.27 ug/L	85
29) Chloroform	10.88	83	2137957	44.76 ug/L	96
31) Dibromofluoromethane	11.08	113	1053352	45.44 ug/L	100
32) Bromochloromethane	10.85	128	669492	57.81 ug/L	75
33) 1,1,1-Trichloroethane	11.14	97	1677869	49.35 ug/L	94
34) 1,1-Dichloropropene	11.25	75	1543313	47.03 ug/L	93
35) Diethyl ether	7.70	59	923479	60.34 ug/l	93
36) Methyl Acetate	9.17	74	131240	45.17 ug/l	72
37) Cyclohexane	10.85	56	2073968	43.52 ug/l #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH006.D Vial: 6
Acq On : 13 Jun 2013 12:14 Operator: kwb
Sample : aa24527-cal4 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	12.07	55	1723229	37.42 ug/l #	76
40) Carbon Tetrachloride	11.07	117	1508797	54.06 ug/L	95
41) 1,2-Dichloroethane	11.72	62	1366202	39.13 ug/L	96
42) Benzene	11.52	78	4429171	44.12 ug/L	73
43) Isobutyl Alcohol	11.58	43	791582	582.49 ug/L #	1
45) 1,2-Dichloroethane-d4	11.65	65	863231	30.87 ug/l #	89
46) Trichloroethene	12.07	130	1274983	58.18 ug/L #	83
47) 1,2-Dichloropropane	12.58	63	1110216	39.09 ug/L	86
48) Methyl Methacrylate	12.65	100	226285	50.80 ug/L	59
49) 1,4-Dioxane	12.77	88	125080	838.82 ug/L	91
50) Bromodichloromethane	12.60	83	1461814	44.38 ug/L	96
51) Dibromomethane	12.50	93	723093	46.45 ug/L #	86
52) 4-Methyl-2-Pentanone	13.66	100	88193	49.37 ug/L	80
53) 2-Chloroethyl vinyl ether	13.16	63	9481	33.91 ug/L	98
54) 2-Hexanone	14.38	43	515302	37.42 ug/L	97
55) C-1,3-Dichloropropene	13.17	75	1742436	46.65 ug/L	81
57) D8-Toluene	13.34	98	2930578	43.14 ug/L	94
59) Toluene	13.39	92	2752508	46.94 ug/L	95
60) Ethyl Methacrylate	13.76	69	1070826	47.81 ug/L #	83
61) T-1,3-Dichloropropene	13.73	75	1334905	45.16 ug/L	89
62) 1,1,2-Trichloroethane	13.89	97	937163	48.51 ug/L	95
63) 1,3-Dichloropropane	14.15	76	1548150	42.45 ug/L	100
64) Tetrachloroethene	13.75	164	971450	51.84 ug/L	97
65) Dibromochloromethane	14.07	129	1144179	57.16 ug/L	97
66) 1,2-Dibromoethane	14.34	107	967202	55.46 ug/L	100
67) Chlorobenzene	14.76	112	3364652	53.70 ug/L	95
68) 1,1,1,2-Tetrachloroethane	14.80	131	1104906	54.35 ug/L	98
69) Ethylbenzene	14.73	106	1529456	56.68 ug/L	78
70) m-xylene & p-xylene	14.84	106	4024333	110.67 ug/L	82
71) O-Xylene	15.27	106	1842102	54.55 ug/L	89
72) Bromoform	15.42	173	736138	60.10 ug/L	98
73) Styrene	15.31	104	3209496	58.62 ug/L	97
74) Isopropylbenzene	15.54	105	5143164	58.89 ug/L	95
75) 1,2,3-Trichloropropane	16.23	75	1118719	45.65 ug/L	95
76) 1,1,2,2-Tetrachloroethane	16.02	83	1166479	48.89 ug/L	98
78) Bromofluorobenzene	15.89	95	1073743	36.66 ug/L #	74
79) T-1,4-dichloro-2-butene	16.21	53	177946	35.78 ug/L #	1
80) N-Propylbenzene	15.95	91	5945522	51.16 ug/L	91
82) Bromobenzene	16.05	156	1335161	52.10 ug/L	75
83) 1,3,5-Trimethylbenzene	16.11	105	3953575	56.09 ug/L	91
84) 2-Chlorotoluene	16.19	91	3561309	44.81 ug/L	83
85) 4-Chlorotoluene	16.36	91	3548805	48.08 ug/L	92
86) 1,2,4-Trimethylbenzene	16.56	105	3865798	55.57 ug/L	90
87) s-Butylbenzene	16.69	105	5564794	55.50 ug/L	98
88) tert-Butylbenzene	16.50	119	3554982	57.65 ug/L	87
89) p-Isopropyltoluene	16.81	119	3855674	57.99 ug/L	96
90) 1,3-Dichlorobenzene	17.06	146	2375121	52.47 ug/L	94
91) 1,4-Dichlorobenzene	17.16	146	2399420	52.24 ug/L	98
92) 1,2-Dichlorobenzene	17.73	146	2181317	52.44 ug/L	95
93) N-Butylbenzene	17.34	91	3871638	48.27 ug/L	96
94) DBCP	18.92	75	132174	43.89 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH006.D Vial: 6
Acq On : 13 Jun 2013 12:14 Operator: kwb
Sample : aa24527-cal4 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.88	128	2070708	55.87 ug/L	100
96) 1,2,4-Trichlorobenzene	20.14	180	1299580	48.70 ug/L	99
97) Hexachlorobutadiene	19.96	225	721777	48.34 ug/L	100
98) 1,2,3-Trichlorobenzene	21.32	180	1149364	53.16 ug/L	95

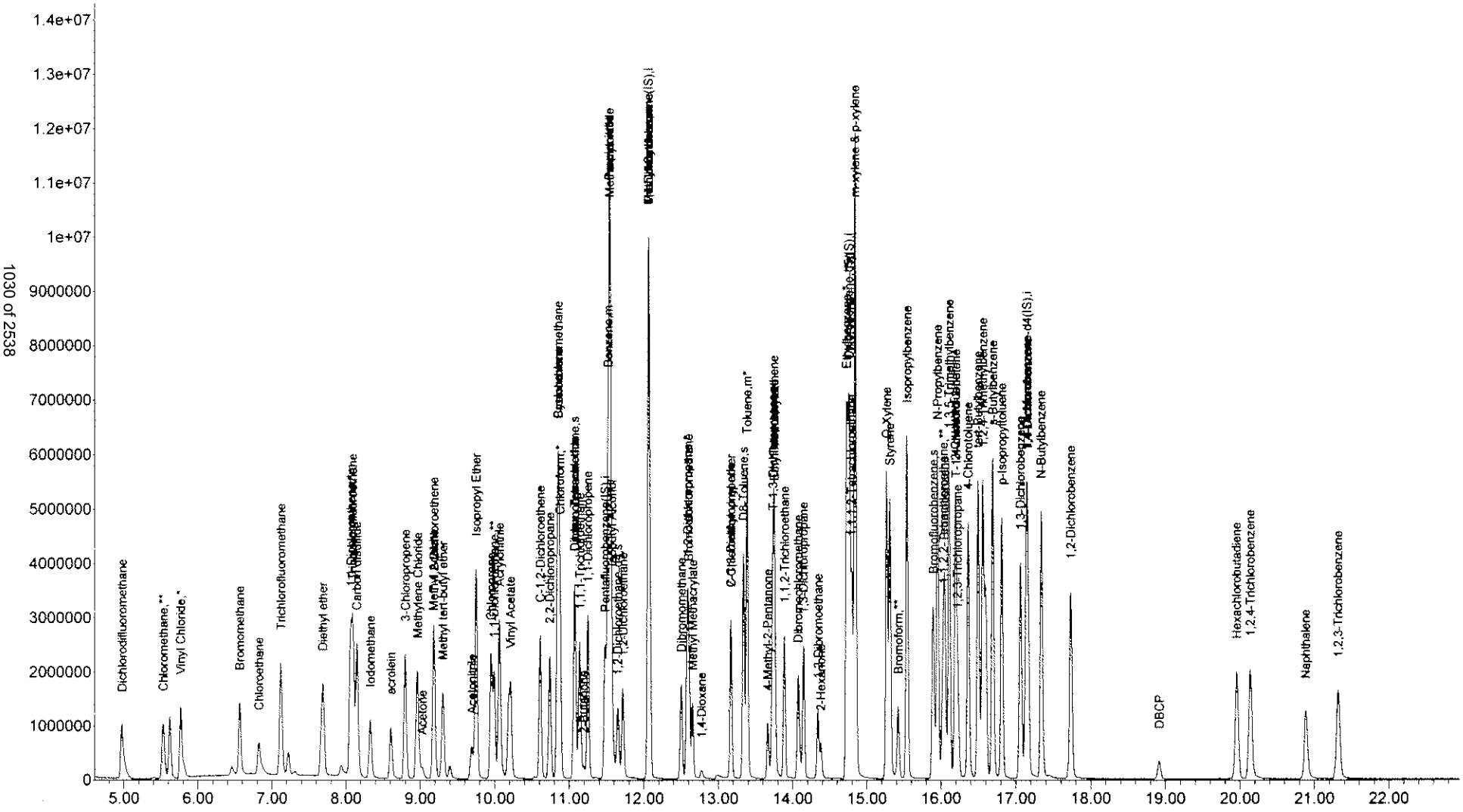
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH006.D Vial: 6
Acq On : 13 Jun 2013 12:14 Operator: kwb
Sample : aa24527-cal4 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

TIC: 3FH006.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH007.D Vial: 7
Acq On : 13 Jun 2013 12:44 Operator: kwb
Sample : aa24527-cal5 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 061413

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1787640	50.00 ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2856125	50.00 ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	2602095	50.00 ug/L	-0.01
81) 1,4-Dichlorobenzene-d4(IS)	17.14	152	1180728	50.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	11.08	113	2898399	119.10 ug/L	-0.01
Spiked Amount 50.000	Range 53 - 146		Recovery = 238.20%#		
44) 1,2-Dichloroethane-d4	11.65	65	2504270	90.44 ug/l	-0.01
Spiked Amount 50.000	Range 45 - 174		Recovery = 180.88%#		
56) D8-Toluene	13.34	98	8180256	121.62 ug/L	-0.01
Spiked Amount 50.000	Range 41 - 146		Recovery = 243.24%#		
77) Bromofluorobenzene	15.89	95	3044389	101.95 ug/L	-0.01
Spiked Amount 50.000	Range 41 - 142		Recovery = 203.90%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.97	85	3650365	97.69 ug/L	91
3) Chloromethane	5.53	50	3587036	69.06 ug/L	100
4) Vinyl Chloride	5.77	62	4019229	110.14 ug/L	99
5) Bromomethane	6.57	94	2276345	155.92 ug/L	85
6) Chloroethane	6.83	64	1852957	118.85 ug/L	91
7) Trichlorofluoromethane	7.12	101	4447988	119.96 ug/L	95
8) Trichlorotrifluoroethane	8.10	101	3011949	132.72 ug/L	78
9) acrolein	8.61	56	2325630	3351.30 ug/L	100
10) Acetone	9.04	43	499834	58.57 ug/L	80
11) 1,1-Dichloroethene	8.06	96	2251001	132.08 ug/L #	65
12) 3-Chloropropene	8.80	76	1371824	95.64 ug/L	51
13) Acetonitrile	9.69	41	1803282	515.08 ug/L	81
14) Iodomethane	8.33	142	3233428	107.33 ug/L	98
15) Carbon disulfide	8.15	76	8601181	109.79 ug/L	95
16) Methylene Chloride	8.97	84	2598715	85.57 ug/L #	78
17) Methyl tert-butyl ether	9.30	73	3589695	81.12 ug/L	91
18) Acrylonitrile	10.07	53	5811002	830.88 ug/L	98
19) T-1,2-Dichloroethene	9.18	96	2570130	93.54 ug/L	67
20) Isopropyl Ether	9.75	45	7959239	72.35 ug/L #	89
21) C-1,2-Dichloroethene	10.61	96	2783447	104.95 ug/L	78
22) 1,1-Dichloroethane	9.99	63	4361807	80.61 ug/L	93
23) Vinyl Acetate	10.22	43	5234390	73.44 ug/L	93
24) Chloroprene	9.95	53	3310747	80.53 ug/L	74
25) 2-Butanone	11.20	72	150769	95.92 ug/L	68
26) Propionitrile	11.54	54	1916230	689.53 ug/L	100
27) 2,2-Dichloropropane	10.74	77	3059906	88.50 ug/L	96
28) Methacrylonitrile	11.55	67	6575957	908.74 ug/L	82
29) Chloroform	10.88	83	4311517	85.99 ug/L	96
31) Dibromofluoromethane	11.08	113	2898399	119.10 ug/L	100
32) Bromochloromethane	10.84	128	1376331	113.20 ug/L	73
33) 1,1,1-Trichloroethane	11.14	97	3337478	93.50 ug/L	94
34) 1,1-Dichloropropene	11.25	75	3161706	91.77 ug/L	93
35) Diethyl ether	7.69	59	1879663	116.99 ug/l	91
36) Methyl Acetate	9.17	74	282964	92.77 ug/l #	69
37) Cyclohexane	10.85	56	4220379	84.36 ug/l #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH007.D Vial: 7
Acq On : 13 Jun 2013 12:44 Operator: kwb
Sample : aa24527-cal5 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Methyl Cyclohexane	12.08	55	3363207	73.77	ug/l	#	67
40)	Carbon Tetrachloride	11.07	117	3075682	111.30	ug/L		96
41)	1,2-Dichloroethane	11.72	62	2767277	80.05	ug/L		94
42)	Benzene	11.52	78	8427459	84.78	ug/L		73
43)	Isobutyl Alcohol	11.58	43	1629594	1211.14	ug/L	#	1
45)	1,2-Dichloroethane-d4	11.65	65	2504270	90.44	ug/l	#	88
46)	Trichloroethene	12.07	130	2542110	117.15	ug/L	#	82
47)	1,2-Dichloropropane	12.58	63	2280882	81.12	ug/L		86
48)	Methyl Methacrylate	12.65	100	470362	106.66	ug/L		62
49)	1,4-Dioxane	12.78	88	300981	2038.65	ug/L	#	80
50)	Bromodichloromethane	12.60	83	2941253	90.19	ug/L		97
51)	Dibromomethane	12.50	93	1486910	96.48	ug/L	#	83
52)	4-Methyl-2-Pentanone	13.66	100	202917	114.74	ug/L		65
53)	2-Chloroethyl vinyl ether	13.17	63	20235	73.09	ug/L		83
54)	2-Hexanone	14.37	43	1120551	82.19	ug/L		95
55)	C-1,3-Dichloropropene	13.17	75	3690147	99.79	ug/L		80
57)	D8-Toluene	13.34	98	8180256	121.62	ug/L		97
59)	Toluene	13.39	92	5758797	96.33	ug/L		91
60)	Ethyl Methacrylate	13.76	69	2205333	96.58	ug/L	#	82
61)	T-1,3-Dichloropropene	13.73	75	2924542	97.04	ug/L		86
62)	1,1,2-Trichloroethane	13.89	97	1896869	96.32	ug/L		96
63)	1,3-Dichloropropane	14.15	76	3227669	86.81	ug/L		100
64)	Tetrachloroethene	13.75	164	1999280	104.64	ug/L		96
65)	Dibromochloromethane	14.08	129	2427709	118.97	ug/L		97
66)	1,2-Dibromoethane	14.34	107	2048357	115.21	ug/L		99
67)	Chlorobenzene	14.77	112	6739732	105.52	ug/L		96
68)	1,1,1,2-Tetrachloroethane	14.80	131	2307363	111.34	ug/L		98
69)	Ethylbenzene	14.73	106	3287216	119.50	ug/L		72
70)	m-xylene & p-xylene	14.85	106	8063002	217.50	ug/L		72
71)	O-Xylene	15.26	106	4078693	118.47	ug/L		81
72)	Bromoform	15.42	173	1570412	125.77	ug/L		99
73)	Styrene	15.31	104	6750693	120.95	ug/L		96
74)	Isopropylbenzene	15.54	105	9908444	111.30	ug/L		91
75)	1,2,3-Trichloropropane	16.23	75	2197390	87.96	ug/L		95
76)	1,1,2,2-Tetrachloroethane	16.02	83	2382311	97.95	ug/L		97
78)	Bromofluorobenzene	15.89	95	3044389	101.95	ug/L	#	80
79)	T-1,4-dichloro-2-butene	16.21	53	372936	73.55	ug/L	#	1
80)	N-Propylbenzene	15.95	91	11416662	96.36	ug/L		89
82)	Bromobenzene	16.05	156	2720592	110.88	ug/L		73
83)	1,3,5-Trimethylbenzene	16.11	105	7814630	115.79	ug/L		90
84)	2-Chlorotoluene	16.19	91	6993304	91.92	ug/L		80
85)	4-Chlorotoluene	16.37	91	7012040	99.22	ug/L		90
86)	1,2,4-Trimethylbenzene	16.56	105	7548186	113.32	ug/L		87
87)	s-Butylbenzene	16.69	105	10653271	110.98	ug/L		96
88)	tert-Butylbenzene	16.50	119	7172508	121.49	ug/L		87
89)	p-Isopropyltoluene	16.81	119	7760410	121.91	ug/L		96
90)	1,3-Dichlorobenzene	17.06	146	4829528	111.43	ug/L		95
91)	1,4-Dichlorobenzene	17.16	146	4547132	103.41	ug/L		97
92)	1,2-Dichlorobenzene	17.73	146	4356705	109.39	ug/L		95
93)	N-Butylbenzene	17.34	91	7597284	98.93	ug/L		94
94)	DBCP	18.92	75	286489	99.37	ug/L		82

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH007.D Vial: 7
Acq On : 13 Jun 2013 12:44 Operator: kwb
Sample : aa24527-cal5 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Naphthalene	20.89	128	4990523	140.64 ug/L	100
96)	1,2,4-Trichlorobenzene	20.14	180	2743613	107.39 ug/L	99
97)	Hexachlorobutadiene	19.96	225	1488930	104.16 ug/L	99
98)	1,2,3-Trichlorobenzene	21.32	180	2539065	122.66 ug/L	95

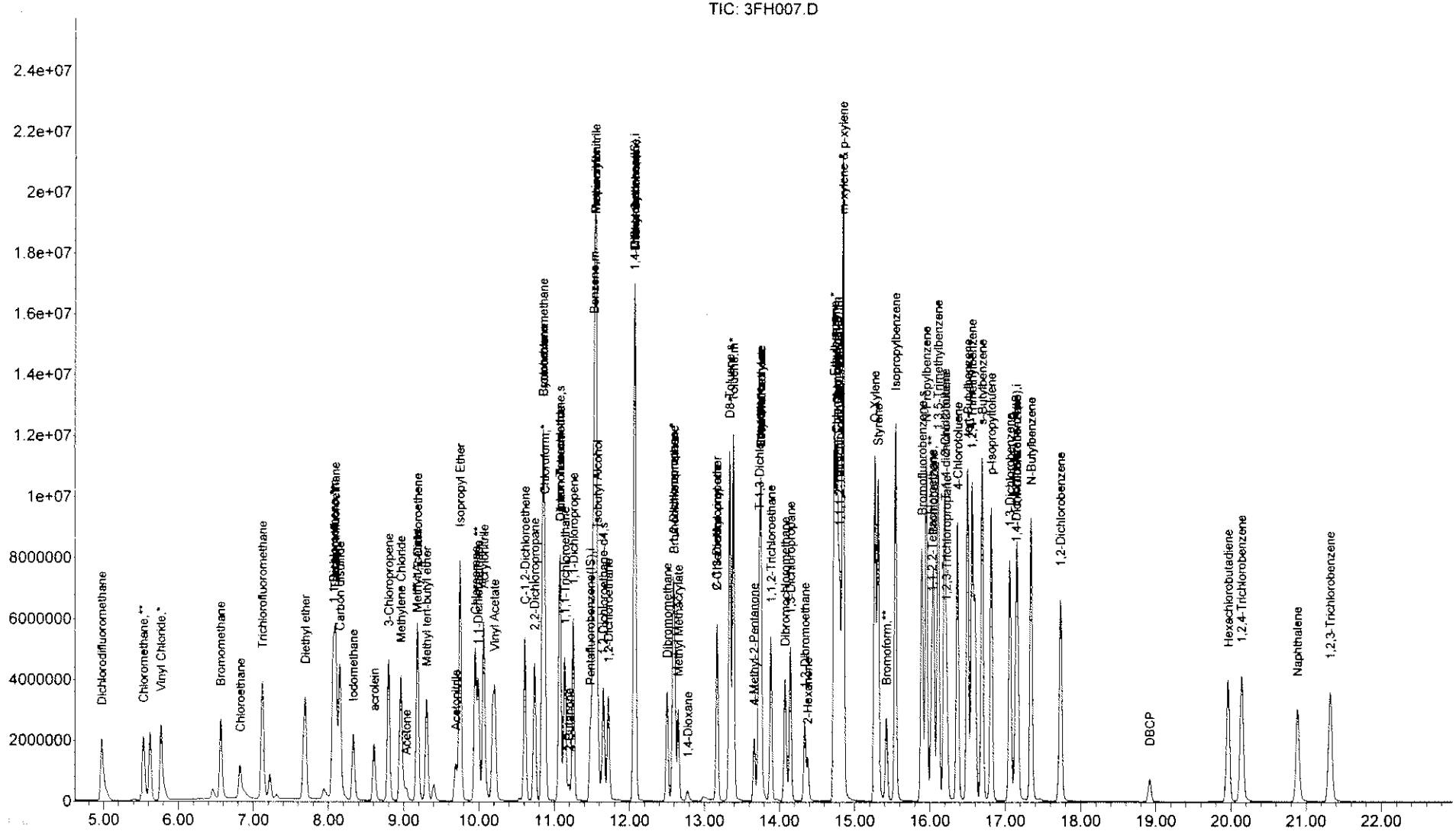
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH007.D Vial: 7
Acq On : 13 Jun 2013 12:44 Operator: kwb
Sample : aa24527-cal5 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:20 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

TIC: 3FH007.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH008.D
Acq On : 13 Jun 2013 13:14
Sample : aa24527-cal6
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 14:22 2013

Vial: 8
Operator: kwb
Inst : OVGCMS3
Multiplr: 1.00
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

VG 061413

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1882302	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	3044894	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	2788423	50.00	ug/L	-0.01
81) 1,4-Dichlorobenzene-d4(IS)	17.13	152	1289557	50.00	ug/L	-0.01
System Monitoring Compounds						
30) Dibromofluoromethane	11.08	113	5754532	224.57	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 449.14%#			
44) 1,2-Dichloroethane-d4	11.65	65	4958610	167.97	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 335.94%#			
56) D8-Toluene	13.34	98	13954872	194.61	ug/L	-0.01
Spiked Amount 50.000	Range 41 - 146		Recovery = 389.22%#			
77) Bromofluorobenzene	15.89	95	6334491	197.95	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 395.90%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.97	85	6788786	172.54	ug/L	92
3) Chloromethane	5.53	50	7004928	128.09	ug/L	99
4) Vinyl Chloride	5.77	62	7403704	192.68	ug/L	98
5) Bromomethane	6.57	94	4081895	265.53	ug/L	85
6) Chloroethane	6.81	64	1458594m	88.85	ug/L	70
7) Trichlorofluoromethane	7.09	101	7874156	201.68	ug/L	95
8) Trichlorotrifluoroethane	8.09	101	5366547	224.59	ug/L	75
9) acrolein	8.61	56	4597456	6291.89	ug/L	100
10) Acetone	9.04	43	1003569	111.68	ug/L	72
11) 1,1-Dichloroethene	8.06	96	4054469	225.94	ug/L #	64
12) 3-Chloropropene	8.80	76	2774746	183.72	ug/L #	46
13) Acetonitrile	9.70	41	3876634	1051.62	ug/L	84
14) Iodomethane	8.33	142	6288001	198.23	ug/L	96
15) Carbon disulfide	8.15	76	16220170	196.63	ug/L	95
16) Methylene Chloride	8.96	84	4995734	156.22	ug/L #	77
17) Methyl tert-butyl ether	9.31	73	7377843	158.34	ug/L	91
18) Acrylonitrile	10.07	53	11043684	1499.66	ug/L	97
19) T-1,2-Dichloroethene	9.19	96	4808288	166.19	ug/L	67
20) Isopropyl Ether	9.75	45	14325735	123.66	ug/L #	84
21) C-1,2-Dichloroethene	10.61	96	5190387	185.86	ug/L	76
22) 1,1-Dichloroethane	9.99	63	7905200	138.76	ug/L	92
23) Vinyl Acetate	10.22	43	10263283	136.75	ug/L	91
24) Chloroprene	9.95	53	6484214	149.79	ug/L	72
25) 2-Butanone	11.20	72	307904	186.05	ug/L	72
26) Propionitrile	11.54	54	4096680	1400.00	ug/L	100
27) 2,2-Dichloropropane	10.74	77	5611746	154.15	ug/L	94
28) Methacrylonitrile	11.56	67	12057144	1582.40	ug/L	72
29) Chloroform	10.88	83	7862274	148.91	ug/L	96
31) Dibromofluoromethane	11.08	113	5754532	224.57	ug/L	100
32) Bromochloromethane	10.84	128	2615200	204.27	ug/L #	70
33) 1,1,1-Trichloroethane	11.14	97	6168655	164.13	ug/L	93
34) 1,1-Dichloropropene	11.25	75	5866549	161.72	ug/L	92
35) Diethyl ether	7.70	59	3505456	207.21	ug/l #	89
36) Methyl Acetate	9.18	74	542060	168.78	ug/l #	67
37) Cyclohexane	10.86	56	7524647	142.85	ug/l #	76

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH008.D Vial: 8
Acq On : 13 Jun 2013 13:14 Operator: kwb
Sample : aa24527-cal6 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:22 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Methyl Cyclohexane	12.08	55	6117756	125.86	ug/l	#	64
40)	Carbon Tetrachloride	11.07	117	5481787	186.07	ug/L		95
41)	1,2-Dichloroethane	11.72	62	5172398	140.34	ug/L		93
42)	Benzene	11.52	78	14423503	136.11	ug/L	#	66
43)	Isobutyl Alcohol	11.58	43	3789497	2641.80	ug/L	#	1
45)	1,2-Dichloroethane-d4	11.65	65	4958610	167.97	ug/l	#	87
46)	Trichloroethene	12.06	130	4765822	206.02	ug/L	#	80
47)	1,2-Dichloropropane	12.59	63	4327367	144.36	ug/L		85
48)	Methyl Methacrylate	12.66	100	1038364	220.86	ug/L		59
49)	1,4-Dioxane	12.78	88	704220	4474.21	ug/L		83
50)	Bromodichloromethane	12.61	83	5599627	161.06	ug/L		95
51)	Dibromomethane	12.50	93	2853872	173.69	ug/L	#	81
52)	4-Methyl-2-Pentanone	13.67	100	448216	237.72	ug/L		61
53)	2-Chloroethyl vinyl ether	13.17	63	43201	146.38	ug/L		83
54)	2-Hexanone	14.38	43	2367040	162.86	ug/L		93
55)	C-1,3-Dichloropropene	13.17	75	7099372	180.09	ug/L		79
57)	D8-Toluene	13.34	98	13954872	194.61	ug/L		96
59)	Toluene	13.38	92	9946089	155.26	ug/L		82
60)	Ethyl Methacrylate	13.76	69	4501298	183.96	ug/L	#	81
61)	T-1,3-Dichloropropene	13.72	75	5444674	168.60	ug/L		85
62)	1,1,2-Trichloroethane	13.89	97	3695066	175.10	ug/L		94
63)	1,3-Dichloropropane	14.15	76	6066047	152.25	ug/L		100
64)	Tetrachloroethene	13.74	164	3759740	183.64	ug/L		95
65)	Dibromochloromethane	14.08	129	4669894	213.56	ug/L		96
66)	1,2-Dibromoethane	14.34	107	3933540	206.46	ug/L		100
67)	Chlorobenzene	14.77	112	12056887	176.15	ug/L		97
68)	1,1,1,2-Tetrachloroethane	14.80	131	4399931	198.13	ug/L		97
69)	Ethylbenzene	14.73	106	6044681	205.06	ug/L	#	50
70)	m-xylene & p-xylene	14.85	106	13436492	338.23	ug/L		51
71)	O-Xylene	15.27	106	7525968	203.99	ug/L	#	72
72)	Bromoform	15.43	173	3098208	231.55	ug/L		99
73)	Styrene	15.31	104	12308448	205.79	ug/L		93
74)	Isopropylbenzene	15.54	105	15589385	163.41	ug/L	#	81
75)	1,2,3-Trichloropropane	16.22	75	4581640	171.15	ug/L		95
76)	1,1,2,2-Tetrachloroethane	16.03	83	4589994	176.11	ug/L		98
78)	Bromofluorobenzene	15.89	95	6334491	197.95	ug/L	#	79
79)	T-1,4-dichloro-2-butene	16.21	53	830943	152.93	ug/L	#	1
80)	N-Propylbenzene	15.96	91	16944254	133.46	ug/L		76
82)	Bromobenzene	16.05	156	5192416	193.77	ug/L	#	73
83)	1,3,5-Trimethylbenzene	16.11	105	13494208	183.07	ug/L		85
84)	2-Chlorotoluene	16.20	91	12841099	154.53	ug/L		77
85)	4-Chlorotoluene	16.37	91	12854170	166.53	ug/L		86
86)	1,2,4-Trimethylbenzene	16.56	105	13503427	185.62	ug/L		83
87)	s-Butylbenzene	16.69	105	16685901	159.16	ug/L		87
88)	tert-Butylbenzene	16.50	119	12539837	194.48	ug/L		89
89)	p-Isopropyltoluene	16.81	119	13926084	200.30	ug/L		95
90)	1,3-Dichlorobenzene	17.06	146	9216789	194.71	ug/L		93
91)	1,4-Dichlorobenzene	17.16	146	8746494	182.12	ug/L		97
92)	1,2-Dichlorobenzene	17.73	146	8559568	196.78	ug/L		94
93)	N-Butylbenzene	17.34	91	13926588	166.04	ug/L		90
94)	DBCP	18.91	75	588289	186.83	ug/L		78

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH008.D Vial: 8
Acq On : 13 Jun 2013 13:14 Operator: kwb
Sample : aa24527-cal6 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:22 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

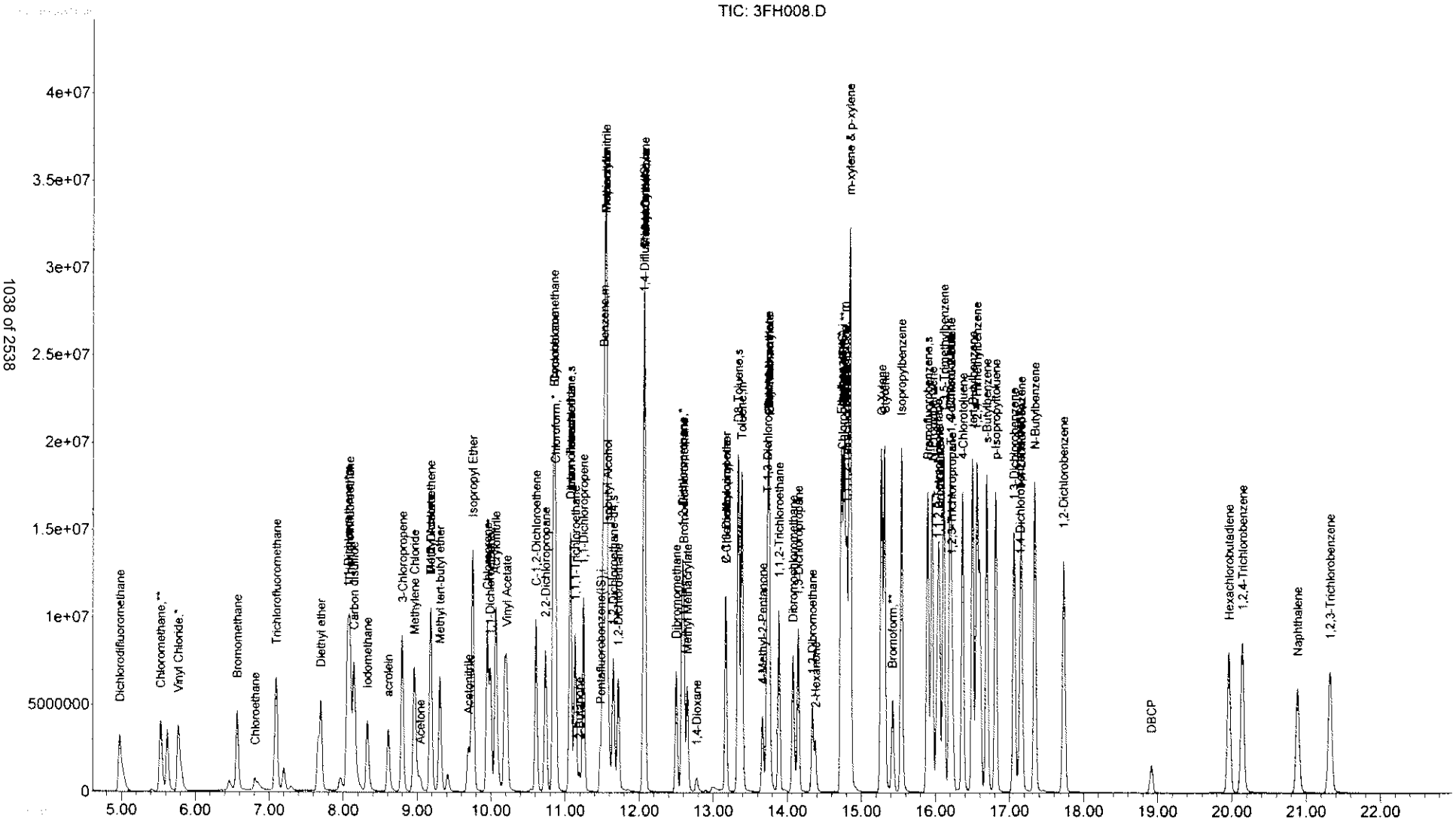
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.88	128	9975500	257.40 ug/L	100
96) 1,2,4-Trichlorobenzene	20.14	180	5610190	201.06 ug/L	99
97) Hexachlorobutadiene	19.96	225	3054147	195.62 ug/L	98
98) 1,2,3-Trichlorobenzene	21.32	180	5059539	223.79 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH008.D Vial: 8
Acq On : 13 Jun 2013 13:14 Operator: kwb
Sample : aa24527-cal6 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:22 2013 Quant Results File: W1306033.RES

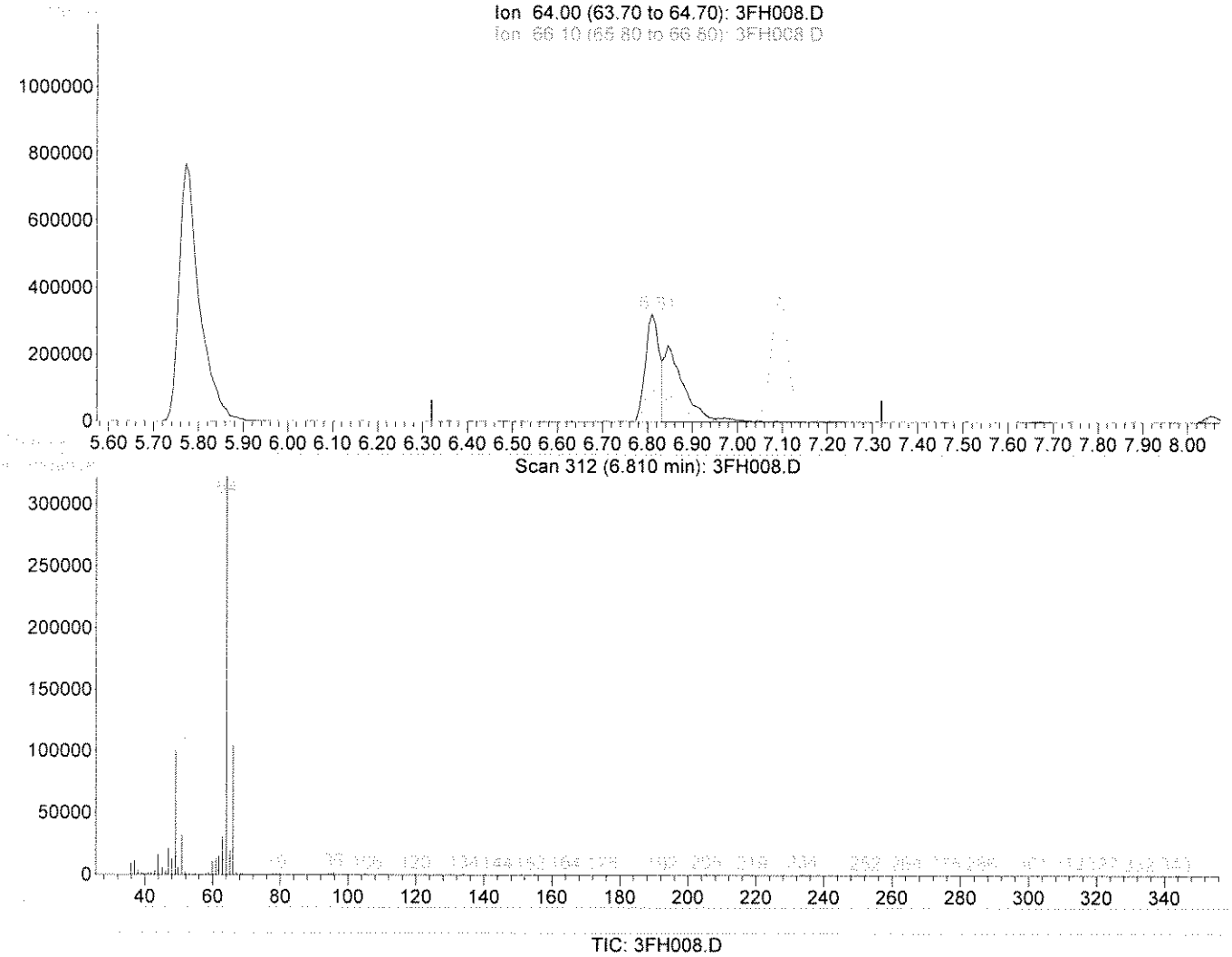
Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH008.D Vial: 8
Acq On : 13 Jun 2013 13:14 Operator: kwb
Sample : aa24527-cal6 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:22 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Multiple Level Calibration



(6) Chloroethane

6.81min 42.46ug/L

response 697110

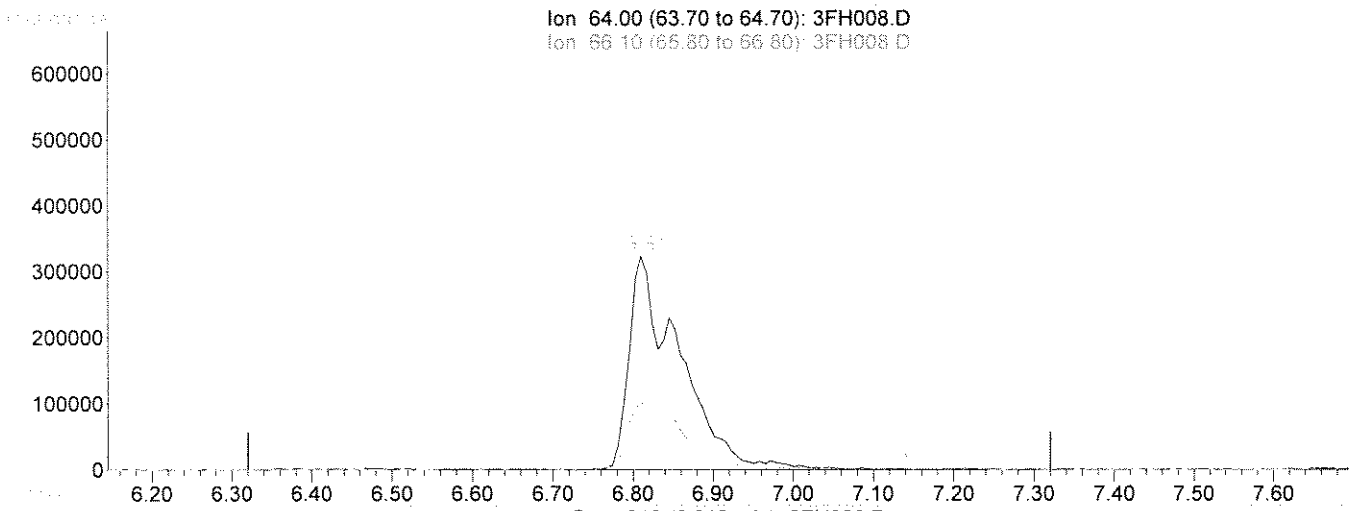
Ion	Exp%	Act%
64.00	100	100
66.10	30.50	42.08
49.00	35.00	57.37
0.00	0.00	0.00

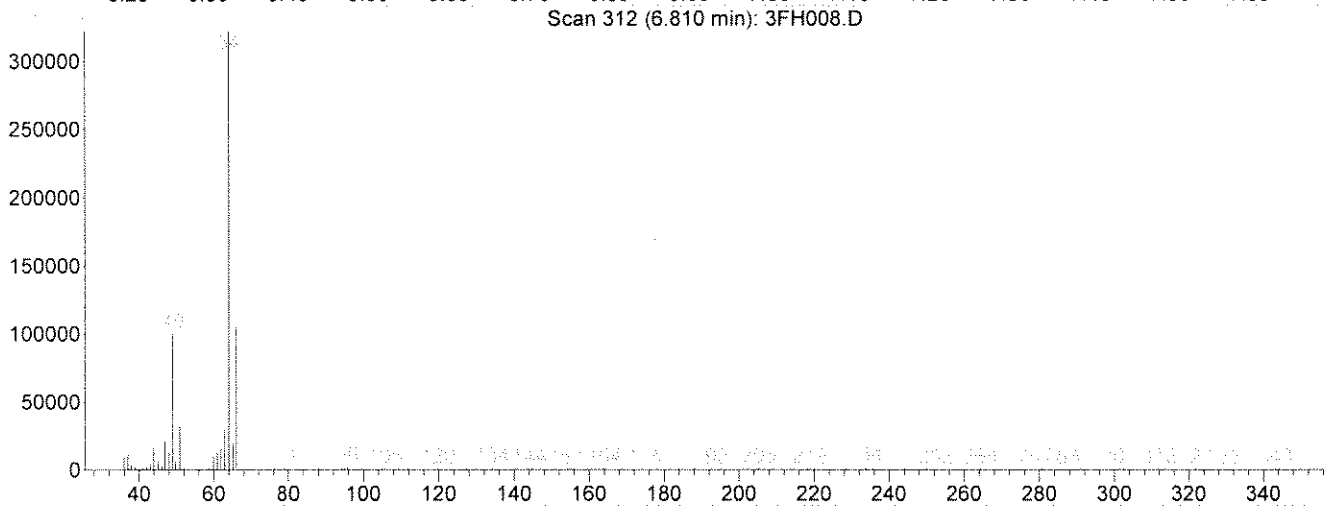
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 4 061413
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH008.D Vial: 8
Acq On : 13 Jun 2013 13:14 Operator: kwb
Sample : aa24527-cal6 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 14:22 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH008.D

(6) Chloroethane

6.81min 88.85ug/L m

response 1458594

Ion	Exp%	Act%
64.00	100	100
66.10	30.50	20.11
49.00	35.00	27.42
0.00	0.00	0.00

Select One:

[ ] Original Integration [✓] Manual Integration

Select reason for manual integration:

[ ] Poor integration (peak tailing, baseline selection)

[ ] Incorrect peak selection/Peak not found

[ ] Hump integration

[✓] Baseline drop for split peaks

[ ] ISTD reintegration

[ ] Other:

Review by/Date LT 061413

Review by/Date: NP 6/14/13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH009.D Vial: 9
Acq On : 13 Jun 2013 13:45 Operator: kwb
Sample : aa24527-cal7 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:40 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 06/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1991980	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	3349527	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	2817277	50.00	ug/L	-0.01
81) 1,4-Dichlorobenzene-d4(IS)	17.14	152	1181833	50.00	ug/L	-0.01

System Monitoring Compounds

30) Dibromofluoromethane	0.00	113	0d	0.00	ug/L	
Spiked Amount 50.000	Range 53 - 146		Recovery	=	0.00%#	
44) 1,2-Dichloroethane-d4	0.00	65	0d	0.00	ug/l	
Spiked Amount 50.000	Range 45 - 174		Recovery	=	0.00%#	
56) D8-Toluene	0.00	98	0d	0.00	ug/L	
Spiked Amount 50.000	Range 41 - 146		Recovery	=	0.00%#	
77) Bromofluorobenzene	0.00	95	0d	0.00	ug/L	
Spiked Amount 50.000	Range 41 - 142		Recovery	=	0.00%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	d	
3) Chloromethane	0.00	50		N.D.	d	
4) Vinyl Chloride	0.00	62		N.D.	d	
5) Bromomethane	0.00	94		N.D.	d	
6) Chloroethane	0.00	64		N.D.	d	
7) Trichlorofluoromethane	0.00	101		N.D.	d	
8) Trichlorotrifluoroethane	0.00	101		N.D.	d	
9) acrolein	0.00	56		N.D.	d	
10) Acetone	9.04	43	1949361	204.99	ug/L	83
11) 1,1-Dichloroethene	0.00	96		N.D.	d	
12) 3-Chloropropene	8.80	76	5734844	358.80	ug/L #	35
13) Acetonitrile	9.69	41	8828714	2263.12	ug/L	98
14) Iodomethane	8.33	142	13177194	392.55	ug/L	98
15) Carbon disulfide	8.15	76	25119319	287.75	ug/L	86
16) Methylene Chloride	0.00	84		N.D.	d	
17) Methyl tert-butyl ether	0.00	73		N.D.	d	
18) Acrylonitrile	9.95	53	12229802	1569.29	ug/L #	52
19) T-1,2-Dichloroethene	0.00	96		N.D.	d	
20) Isopropyl Ether	0.00	45		N.D.	d	
21) C-1,2-Dichloroethene	0.00	96		N.D.	d	
22) 1,1-Dichloroethane	0.00	63		N.D.	d	
23) Vinyl Acetate	0.00	43		N.D.	d	
24) Chloroprene	9.95	53	12229802	266.95	ug/L	68
25) 2-Butanone	11.20	72	652494	372.55	ug/L	59
26) Propionitrile	11.54	54	7332817	2367.94	ug/L	100
27) 2,2-Dichloropropane	0.00	77		N.D.	d	
28) Methacrylonitrile	11.56	67	19097425	2368.38	ug/L #	57
29) Chloroform	0.00	83		N.D.	d	
31) Dibromofluoromethane	0.00	113		N.D.	d	
32) Bromochloromethane	0.00	128		N.D.	d	
33) 1,1,1-Trichloroethane	0.00	97		N.D.	d	
34) 1,1-Dichloropropene	0.00	75		N.D.	d	
35) Diethyl ether	0.00	59		N.D.	d	
36) Methyl Acetate	0.00	74		N.D.	d	
37) Cyclohexane	0.00	56		N.D.	d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH009.D Vial: 9
Acq On : 13 Jun 2013 13:45 Operator: kwb
Sample : aa24527-cal7 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:40 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	0.00	55		N.D. d	
40) Carbon Tetrachloride	0.00	117		N.D. d	
41) 1,2-Dichloroethane	0.00	62		N.D. d	
42) Benzene	0.00	78		N.D. d	
43) Isobutyl Alcohol	0.00	43		N.D. d	
45) 1,2-Dichloroethane-d4	0.00	65		N.D. d	
46) Trichloroethene	0.00	130		N.D. d	
47) 1,2-Dichloropropane	0.00	63		N.D. d	
48) Methyl Methacrylate	12.65	100	2234813	432.11 ug/L	55
49) 1,4-Dioxane	12.77	88	1411922	8154.69 ug/L	84
50) Bromodichloromethane	0.00	83		N.D. d	
51) Dibromomethane	0.00	93		N.D. d	
52) 4-Methyl-2-Pentanone	13.67	100	917838	442.53 ug/L	57
53) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
54) 2-Hexanone	14.38	43	4757260	297.54 ug/L	92
55) C-1,3-Dichloropropene	0.00	75		N.D. d	
57) D8-Toluene	0.00	98		N.D. d	
59) Toluene	0.00	92		N.D. d	
60) Ethyl Methacrylate	13.76	69	8922463	360.91 ug/L	81
61) T-1,3-Dichloropropene	0.00	75		N.D. d	
62) 1,1,2-Trichloroethane	0.00	97		N.D. d	
63) 1,3-Dichloropropane	0.00	76		N.D. d	
64) Tetrachloroethene	0.00	164		N.D. d	
65) Dibromochloromethane	0.00	129		N.D. d	
66) 1,2-Dibromoethane	0.00	107		N.D. d	
67) Chlorobenzene	0.00	112		N.D. d	
68) 1,1,1,2-Tetrachloroethane	0.00	131		N.D. d	
69) Ethylbenzene	0.00	106		N.D. d	
70) m-xylene & p-xylene	0.00	106		N.D. d	
71) O-Xylene	0.00	106		N.D. d	
72) Bromoform	0.00	173		N.D. d	
73) Styrene	0.00	104		N.D. d	
74) Isopropylbenzene	0.00	105		N.D. d	
75) 1,2,3-Trichloropropane	0.00	75		N.D. d	
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D. d	
78) Bromofluorobenzene	0.00	95		N.D. d	
79) T-1,4-dichloro-2-butene	16.21	53	1586478	288.99 ug/L #	39
80) N-Propylbenzene	0.00	91		N.D. d	
82) Bromobenzene	0.00	156		N.D. d	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D. d	
84) 2-Chlorotoluene	0.00	91		N.D. d	
85) 4-Chlorotoluene	0.00	91		N.D. d	
86) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
87) s-Butylbenzene	0.00	105		N.D. d	
88) tert-Butylbenzene	0.00	119		N.D. d	
89) p-Isopropyltoluene	0.00	119		N.D. d	
90) 1,3-Dichlorobenzene	0.00	146		N.D. d	
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) 1,2-Dichlorobenzene	0.00	146		N.D. d	
93) N-Butylbenzene	0.00	91		N.D. d	
94) DBCP	0.00	75		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH009.D Vial: 9
Acq On : 13 Jun 2013 13:45 Operator: kwb
Sample : aa24527-cal7 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:40 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Wed Apr 10 11:58:58 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	0.00	128		N.D. d	
96) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
97) Hexachlorobutadiene	0.00	225		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

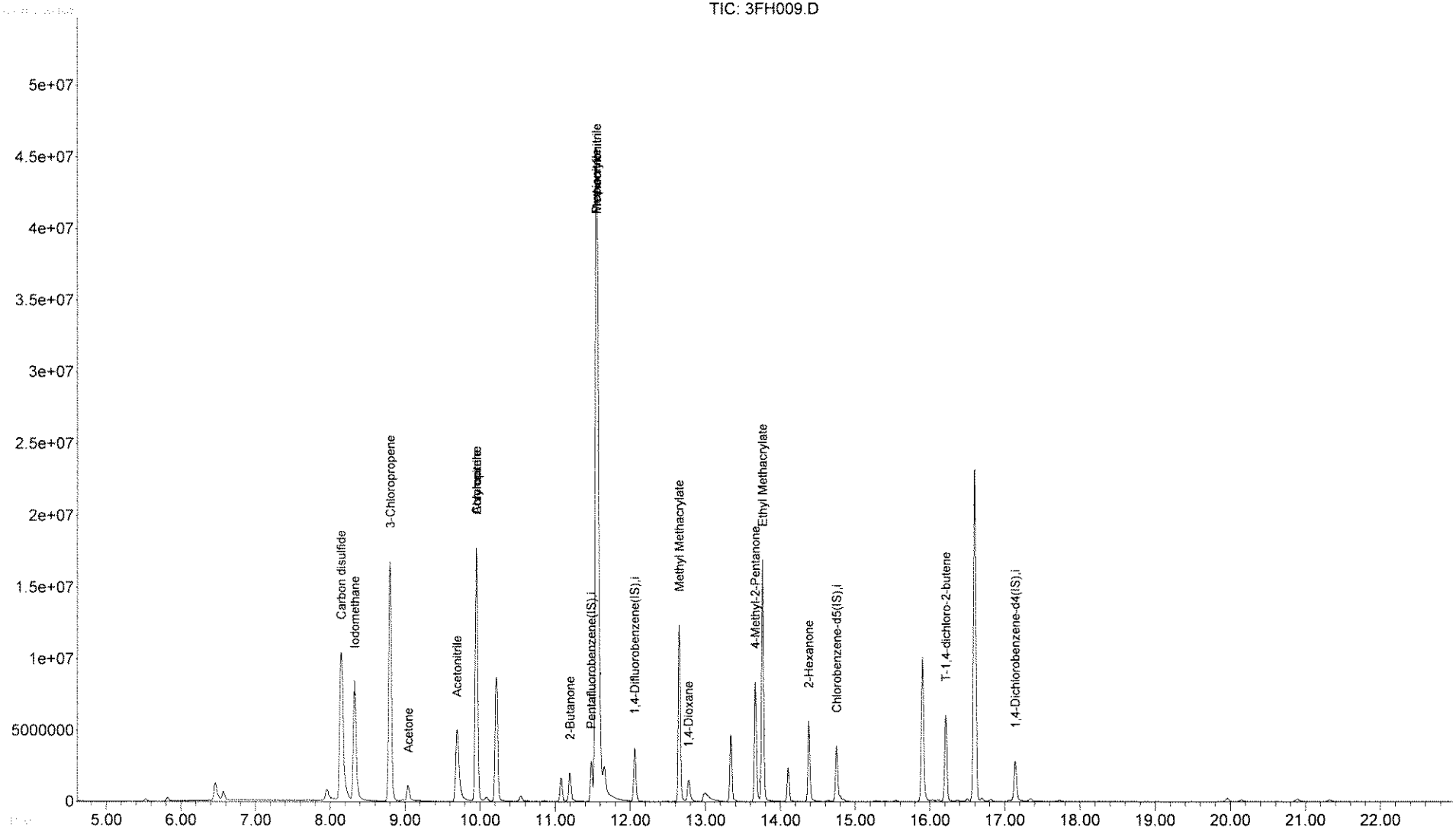
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH009.D Vial: 9
Acq On : 13 Jun 2013 13:45 Operator: kwb
Sample : aa24527-cal7 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 17:40 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

TIC: 3FH009.D



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration

KT061413

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	94	0.00
2		Dichlorodifluoromethane	1.037	1.203	-16.0	111	0.00
3	**	Chloromethane	1.060	1.202	-13.4	110	0.00
4	*	Vinyl Chloride	1.090	1.080	0.9	88	0.00
5		Bromomethane	0.737	0.655	11.1	93	0.00
6		Chloroethane	0.622	0.606	2.6	98	0.02
7		Trichlorofluoromethane	1.309	1.370	-4.7	95	0.00
8		Trichlorotrifluoroethane	0.888	0.860	3.2	89	0.00
9		acrolein	0.060	0.028#	53.3#	40#	0.00
10		Acetone	0.150	0.352	-134.7#	205#	0.00
11	*m	1,1-Dichloroethene	0.687	0.696	-1.3	93	0.00
12		3-Chloropropene	0.351	0.366	-4.3	89	0.00
13		Acetonitrile	0.055	0.005#	90.9#	9#	0.00
14		Iodomethane	0.926	0.913	1.4	96	0.00
15		Carbon disulfide	2.565	2.529	1.4	91	0.00
16		Methylene Chloride	0.797	0.744	6.6	92	0.00
17		Methyl tert-butyl ether	0.878	0.966	-10.0	96	0.00
18		Acrylonitrile	0.159	0.018#	88.7#	10#	0.00
19		T-1,2-Dichloroethene	0.694	0.696	-0.3	88	0.00
20		Isopropyl Ether	1.959	2.156	-10.1	90	0.00
21		C-1,2-Dichloroethene	0.722	0.733	-1.5	89	0.00
22	**	1,1-Dichloroethane	1.257	1.254	0.2	94	0.00
23		Vinyl Acetate	1.321	1.453	-10.0	90	0.00
24		Chloroprene	0.821	0.898	-9.4	90	0.00
25		2-Butanone	0.038	0.111	-192.1#	250#	0.00
26		Propionitrile	0.059	0.006#	89.8#	10#	0.00
27		2,2-Dichloropropane	0.861	0.817	5.1	87	0.00
28		Methacrylonitrile	0.192	0.020#	89.6#	9#	0.00
29	*	Chloroform	1.277	1.237	3.1	92	0.00
30	s	Dibromofluoromethane	0.783	0.649	17.1	98	0.00
31		Dibromofluoromethane	0.783	0.649	17.1	98	0.00
32		Bromochloromethane	0.403	0.406	-0.7	97	0.00
33		1,1,1-Trichloroethane	0.984	0.975	0.9	93	0.00
34		1,1-Dichloropropene	0.786	0.850	-8.1	88	0.00
35		Diethyl ether	0.551	0.529	4.0	92	0.00
36		Methyl Acetate	0.078	0.090#	-15.4	110	0.00
37		Cyclohexane	1.082	1.065	1.6	82	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	94	0.00
39		Methyl Cyclohexane	0.614	0.539	12.2	85	0.00
40		Carbon Tetrachloride	0.545	0.521	4.4	94	0.00
41		1,2-Dichloroethane	0.490	0.471	3.9	94	0.00
42	m	Benzene	1.514	1.507	0.5	92	0.00
43		Isobutyl Alcohol	0.013	0.001#	92.3#	5#	0.00
44	s	1,2-Dichloroethane-d4	0.401	0.334	16.7	105	0.00
45		1,2-Dichloroethane-d4	0.401	0.334	16.7	105	0.00
46	m	Trichloroethene	0.466	0.429	7.9	91	0.00
47	*	1,2-Dichloropropane	0.409	0.384	6.1	94	0.00
48		Methyl Methacrylate	0.075	0.078#	-4.0	93	0.00
49		1,4-Dioxane	0.002	0.000#	100.0#	6#	0.00
50		Bromodichloromethane	0.534	0.529	0.9	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.261	0.253	3.1	95	0.00
52		4-Methyl-2-Pentanone	0.034	0.092#	-170.6#	284#	0.00
53		2-Chloroethyl vinyl ether	0.004	0.004#	0.0	111	0.00
54		2-Hexanone	0.177	0.501	-183.1#	264#	0.00
55		C-1,3-Dichloropropene	0.558	0.568	-1.8	89	0.00
56	s	D8-Toluene	1.220	1.061	13.0	98	0.00
57		D8-Toluene	1.220	1.061	13.0	98	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	102	0.00
59	m*	Toluene	1.008	0.971	3.7	92	0.00
60		Ethyl Methacrylate	0.388	0.407	-4.9	99	0.00
61		T-1,3-Dichloropropene	0.508	0.541	-6.5	106	0.00
62		1,1,2-Trichloroethane	0.374	0.342	8.6	95	0.00
63		1,3-Dichloropropane	0.622	0.563	9.5	95	0.00
64		Tetrachloroethene	0.372	0.362	2.7	97	0.00
65		Dibromochloromethane	0.453	0.446	1.5	102	0.00
66		1,2-Dibromoethane	0.392	0.367	6.4	99	0.00
67	**m	Chlorobenzene	1.350	1.173	13.1	91	0.00
68		1,1,1,2-Tetrachloroethane	0.443	0.412	7.0	97	0.00
69	*	Ethylbenzene	0.541	0.550	-1.7	94	0.00
70		m-xylene & p-xylene	0.749	0.699	6.7	90	0.00
71		O-Xylene	0.661	0.655	0.9	93	0.00
72	**	Bromoform	0.302	0.274	9.3	97	0.00
73		Styrene	1.118	1.158	-3.6	94	0.00
74		Isopropylbenzene	1.752	1.699	3.0	86	0.00
75		1,2,3-Trichloropropane	0.448	0.421	6.0	98	0.00
76	**	1,1,2,2-Tetrachloroethane	0.485	0.438	9.7	98	0.00
77	s	Bromofluorobenzene	0.522	0.467	10.5	113	0.00
78		Bromofluorobenzene	0.522	0.467	10.5	113	0.00
79		T-1,4-dichloro-2-butene	0.069	0.069#	0.0	101	0.00
80		N-Propylbenzene	2.109	2.045	3.0	90	0.00
81	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	101	0.00
82		Bromobenzene	1.072	1.017	5.1	95	0.00
83		1,3,5-Trimethylbenzene	2.912	2.911	0.0	91	0.00
84		2-Chlorotoluene	2.834	2.551	10.0	89	0.00
85		4-Chlorotoluene	2.639	2.563	2.9	90	0.00
86		1,2,4-Trimethylbenzene	2.844	2.743	3.6	88	0.00
87		s-Butylbenzene	3.995	4.007	-0.3	89	0.00
88		tert-Butylbenzene	2.599	2.560	1.5	89	0.00
89		p-Isopropyltoluene	2.826	3.201	-13.3	103	0.00
90		1,3-Dichlorobenzene	1.998	1.742	12.8	91	0.00
91		1,4-Dichlorobenzene	1.987	1.761	11.4	91	0.00
92		1,2-Dichlorobenzene	1.781	1.608	9.7	92	0.00
93		N-Butylbenzene	2.838	2.885	-1.7	93	0.00
94		DBCP	0.116	0.109	6.0	102	0.00
95		Naphthalene	1.823	1.643	9.9	99	0.00
96		1,2,4-Trichlorobenzene	1.081	0.988	8.6	94	0.00
97		Hexachlorobutadiene	0.617	0.551	10.7	95	0.00
98		1,2,3-Trichlorobenzene	0.937	0.879	6.2	95	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D
Vial: 14
Acq On : 13 Jun 2013 16:39
Operator: kwb
Sample : aa24527-scv1
Inst : OVGCMS3
Misc :
Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LG 06/14/13

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1596955m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2715736m	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.76	117	2603388	50.00	ug/L	0.00
81) 1,4-Dichlorobenzene-d4(IS)	17.15	152	1241916	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	11.09	113	1035718	41.43	ug/L	0.00
Spiked Amount 50.000	Range 53 - 146		Recovery = 82.86%			
44) 1,2-Dichloroethane-d4	11.66	65	908185	41.68	ug/l	0.00
Spiked Amount 50.000	Range 45 - 174		Recovery = 83.36%			
56) D8-Toluene	13.35	98	2880994	43.47	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 86.94%			
77) Bromofluorobenzene	15.90	95	1215433m	44.75	ug/L	0.00
Spiked Amount 50.000	Range 41 - 142		Recovery = 89.50%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.98	85	1920912	57.98	ug/L	91
3) Chloromethane	5.54	50	1919182	56.69	ug/L	99
4) Vinyl Chloride	5.77	62	1724641	49.54	ug/L	99
5) Bromomethane	6.58	94	1045791	44.42	ug/L	85
6) Chloroethane	6.85	64	968266	48.75	ug/L	91
7) Trichlorofluoromethane	7.13	101	2187651	52.32	ug/L	97
8) Trichlorotrifluoroethane	8.10	101	1373474	48.45	ug/L	78
9) acrolein	8.61	56	451350	237.35	ug/L	96
10) Acetone	9.04	43	562725	117.68	ug/L	87
11) 1,1-Dichloroethene	8.07	96	1112095	50.69	ug/L	67
12) 3-Chloropropene	8.80	76	583707	52.13	ug/L	52
13) Acetonitrile	9.69	41	74293	42.01	ug/L #	78
14) Iodomethane	8.34	142	1458795	49.34	ug/L	97
15) Carbon disulfide	8.15	76	4039211	49.30	ug/L	97
16) Methylene Chloride	8.97	84	1188388	46.69	ug/L #	79
17) Methyl tert-butyl ether	9.31	73	1542494	55.03	ug/L	91
18) Acrylonitrile	10.07	53	287502	56.60	ug/L	95
19) T-1,2-Dichloroethene	9.19	96	1110948	50.11	ug/L	69
20) Isopropyl Ether	9.76	45	3443793	55.05	ug/L #	92
21) C-1,2-Dichloroethene	10.61	96	1170275	50.74	ug/L	79
22) 1,1-Dichloroethane	10.00	63	2002370	49.87	ug/L	94
23) Vinyl Acetate	10.22	43	2319799	54.97	ug/L	93
24) Chloroprene	9.96	53	1433771	54.70	ug/L	78
25) 2-Butanone	11.20	72	176680	145.93	ug/L	71
26) Propionitrile	11.54	54	102571	54.44	ug/L	100
27) 2,2-Dichloropropane	10.75	77	1304726	47.46	ug/L	94
28) Methacrylonitrile	11.55	67	325738	53.22	ug/L	96
29) Chloroform	10.88	83	1975275	48.43	ug/L	97
31) Dibromofluoromethane	11.09	113	1035718	41.43	ug/L	100
32) Bromochloromethane	10.85	128	648179	50.31	ug/L	74
33) 1,1,1-Trichloroethane	11.14	97	1557765	49.57	ug/L	94
34) 1,1-Dichloropropene	11.26	75	1357541	54.06	ug/L	93
35) Diethyl ether	7.70	59	845340	48.07	ug/l	91
36) Methyl Acetate	9.18	74	144090	57.88	ug/l	80
37) Cyclohexane	10.86	56	1700640	49.23	ug/l #	78

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	12.08	55	1462830	43.88 ug/l #	76
40) Carbon Tetrachloride	11.07	117	1414446	47.81 ug/L	97
41) 1,2-Dichloroethane	11.73	62	1279544	48.07 ug/L	95
42) Benzene	11.52	78	4093313	49.76 ug/L	93
43) Isobutyl Alcohol	11.57	43	36142	50.61 ug/L	1
45) 1,2-Dichloroethane-d4	11.66	65	908185	41.68 ug/l	93
46) Trichloroethene	12.07	130	1165795	46.04 ug/L #	83
47) 1,2-Dichloropropane	12.59	63	1043476	46.99 ug/L	89
48) Methyl Methacrylate	12.66	100	211285	52.07 ug/L	58
49) 1,4-Dioxane	12.77	88	7465	56.80 ug/L	23
50) Bromodichloromethane	12.61	83	1437298	49.54 ug/L	98
51) Dibromomethane	12.51	93	686751	48.52 ug/L #	83
52) 4-Methyl-2-Pentanone	13.67	100	250771	137.59 ug/L	67
53) 2-Chloroethyl vinyl ether	13.18	63	10567	52.58 ug/L	81
54) 2-Hexanone	14.38	43	1360032	141.08 ug/L	94
55) C-1,3-Dichloropropene	13.18	75	1542617	50.87 ug/L	81
57) D8-Toluene	13.35	98	2880994	43.47 ug/L	94
59) Toluene	13.40	92	2528451	48.18 ug/L	95
60) Ethyl Methacrylate	13.77	69	1060704	52.53 ug/L #	81
61) T-1,3-Dichloropropene	13.73	75	1409436	53.25 ug/L	90
62) 1,1,2-Trichloroethane	13.89	97	891009	45.75 ug/L	96
63) 1,3-Dichloropropane	14.15	76	1464923	45.21 ug/L	99
64) Tetrachloroethene	13.75	164	943546	48.69 ug/L	96
65) Dibromochloromethane	14.08	129	1161350	49.27 ug/L	96
66) 1,2-Dibromoethane	14.34	107	954680	46.75 ug/L	99
67) Chlorobenzene	14.77	112	3053761	43.43 ug/L	96
68) 1,1,1,2-Tetrachloroethane	14.81	131	1071582	46.43 ug/L	97
69) Ethylbenzene	14.73	106	1431010	50.83 ug/L	78
70) m-xylene & p-xylene	14.85	106	3637621	93.32 ug/L	82
71) O-Xylene	15.27	106	1705227	49.56 ug/L	85
72) Bromoform	15.43	173	712140	45.28 ug/L	98
73) Styrene	15.32	104	3014328	51.79 ug/L	97
74) Isopropylbenzene	15.54	105	4422966	48.48 ug/L	95
75) 1,2,3-Trichloropropane	16.23	75	1095121	46.99 ug/L	97
76) 1,1,2,2-Tetrachloroethane	16.03	83	1139579	45.17 ug/L	97
78) Bromofluorobenzene	15.90	95	1215433m	44.75 ug/L	74
79) T-1,4-dichloro-2-butene	16.21	53	179416	49.63 ug/L #	1
80) N-Propylbenzene	15.96	91	5322908	48.48 ug/L	92
82) Bromobenzene	16.05	156	1262757	47.43 ug/L	75
83) 1,3,5-Trimethylbenzene	16.11	105	3615714	49.99 ug/L	92
84) 2-Chlorotoluene	16.20	91	3168713	45.01 ug/L	83
85) 4-Chlorotoluene	16.37	91	3182906	48.56 ug/L	91
86) 1,2,4-Trimethylbenzene	16.57	105	3406004	48.21 ug/L	88
87) s-Butylbenzene	16.70	105	4976579	50.15 ug/L	98
88) tert-Butylbenzene	16.50	119	3179346	49.26 ug/L	87
89) p-Isopropyltoluene	16.82	119	3974876	56.64 ug/L	96
90) 1,3-Dichlorobenzene	17.07	146	2163201	43.59 ug/L	95
91) 1,4-Dichlorobenzene	17.17	146	2186743	44.31 ug/L	98
92) 1,2-Dichlorobenzene	17.74	146	1997047	45.15 ug/L	95
93) N-Butylbenzene	17.34	91	3583020	50.83 ug/L	95
94) DBCP	18.92	75	134791	46.85 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

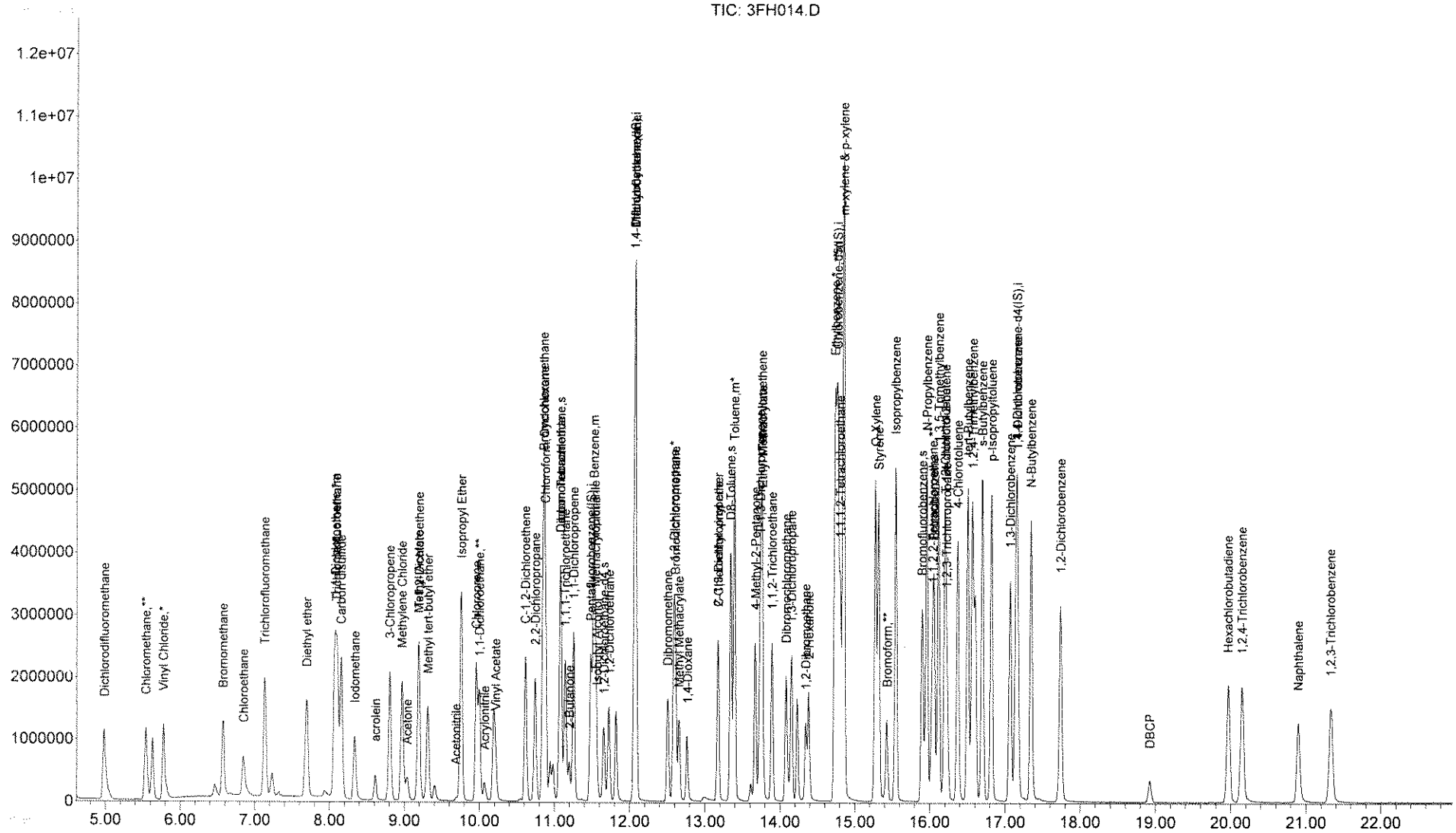
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.90	128	2040956	45.08 ug/L	100
96) 1,2,4-Trichlorobenzene	20.15	180	1226811	45.71 ug/L	99
97) Hexachlorobutadiene	19.96	225	684687	44.65 ug/L	99
98) 1,2,3-Trichlorobenzene	21.33	180	1092034	46.92 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013 Quant Results File: W1306033.RES

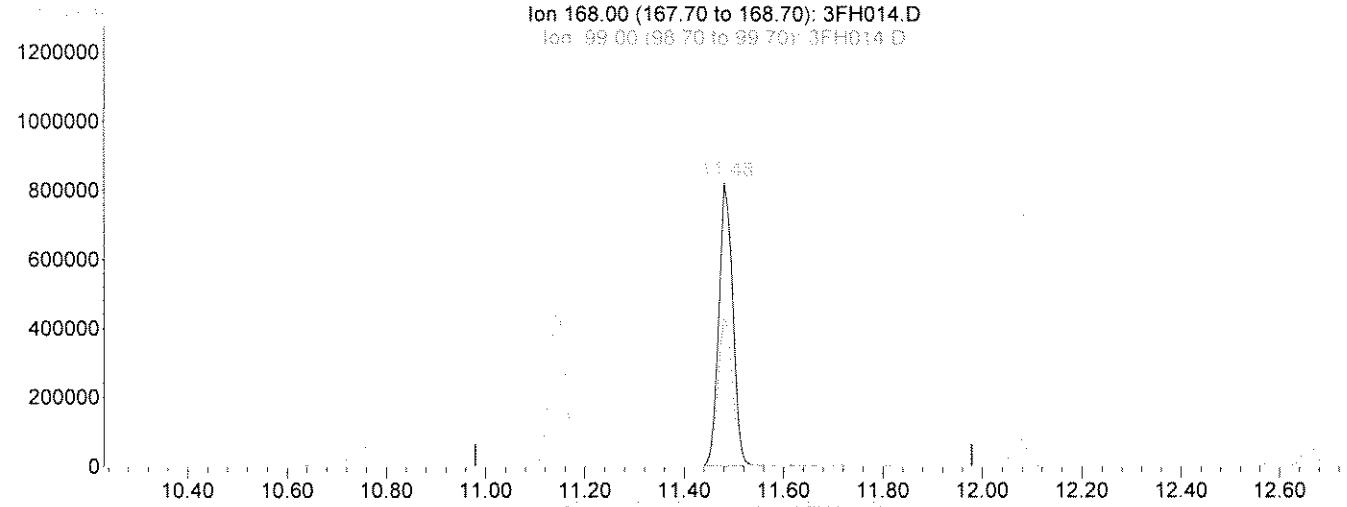
Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

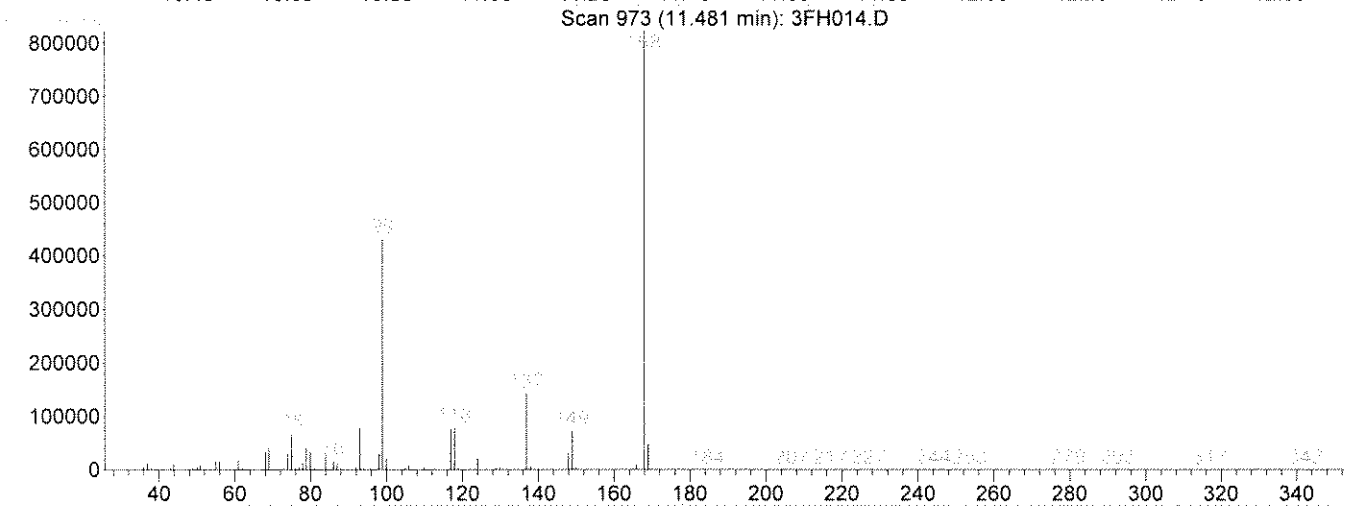


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 9:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH014.D

(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L

response 1605008

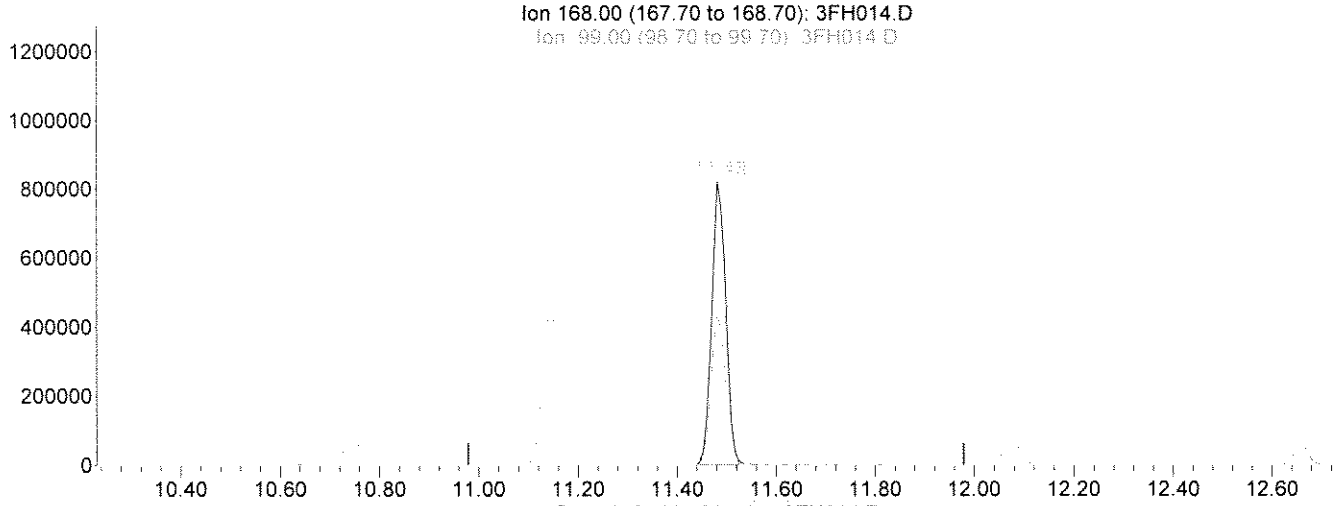
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	54.10
169.00	6.30	6.18
0.00	0.00	0.00

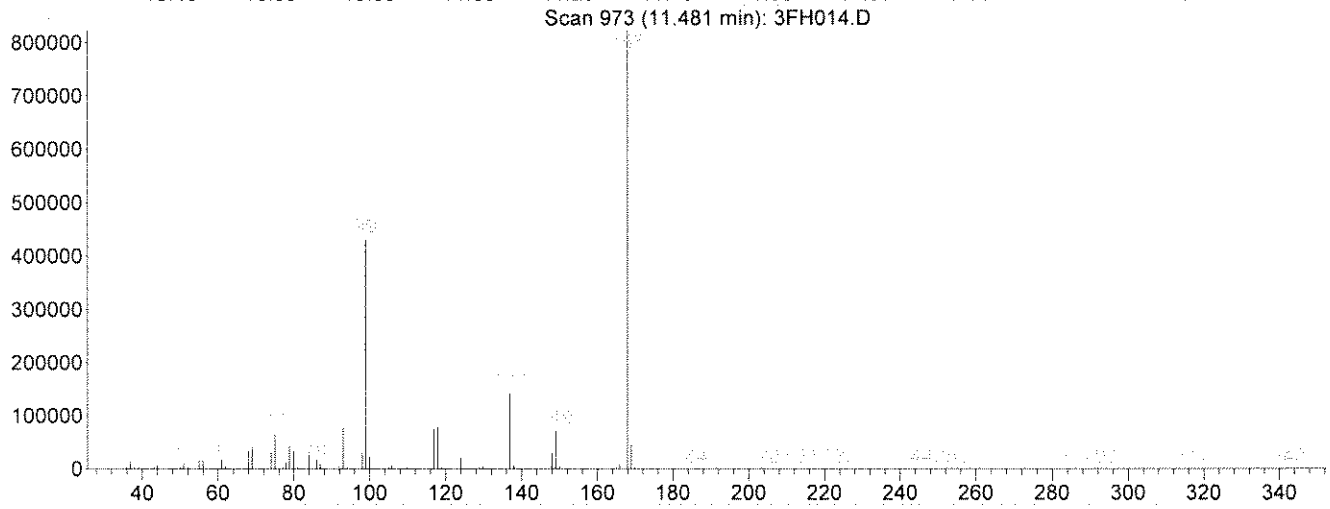
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KTD 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 9:50 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH014.D

(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L m

response 1596955

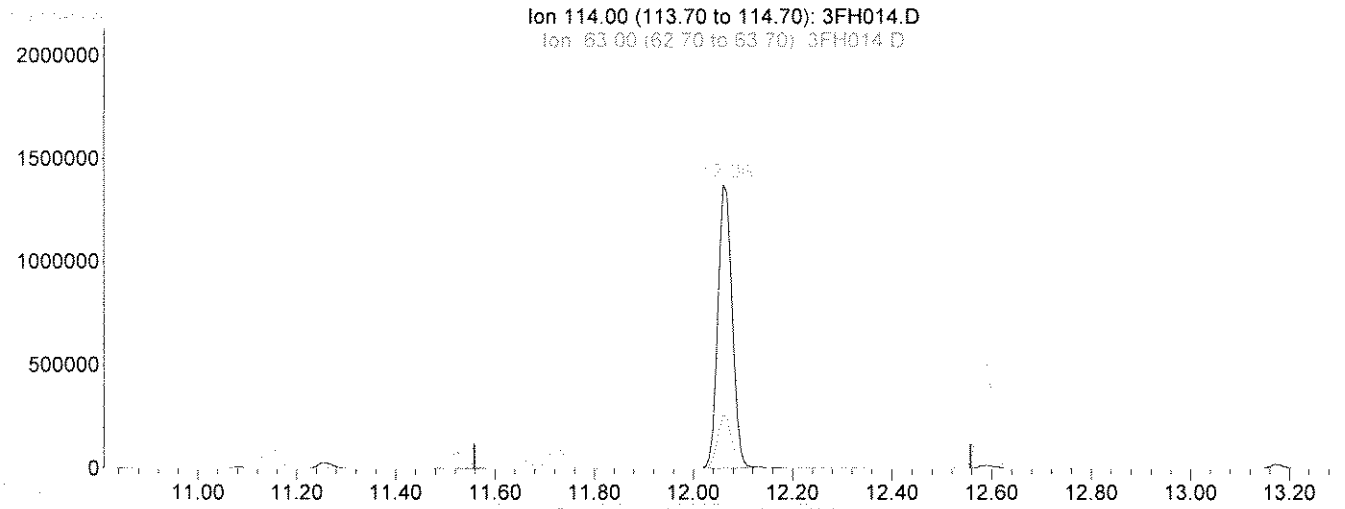
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	54.38
169.00	6.30	6.21
0.00	0.00	0.00

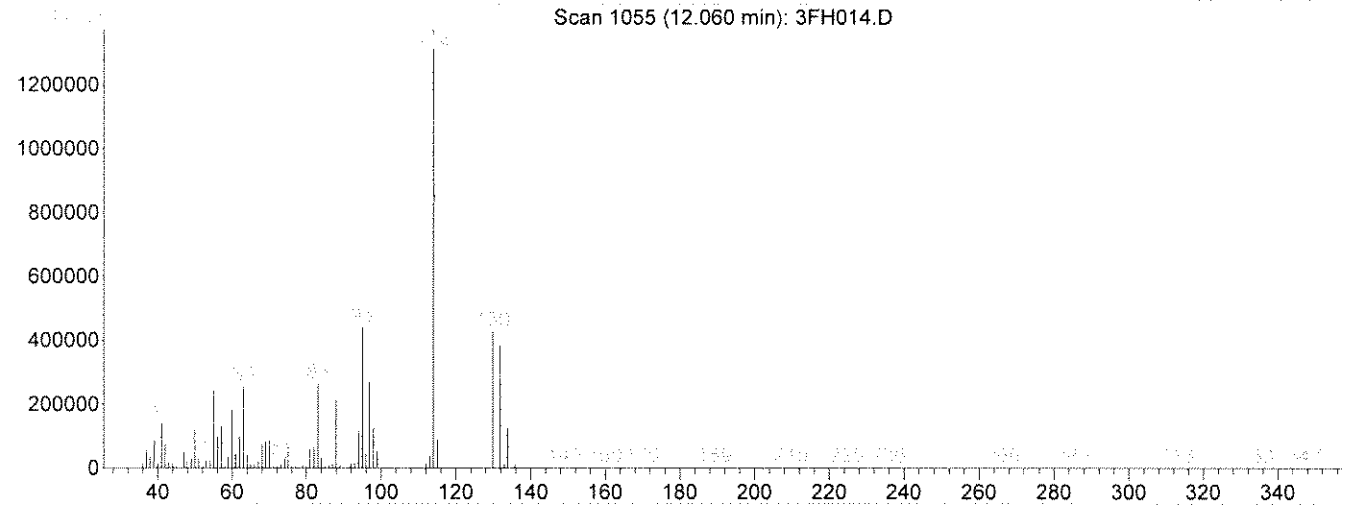
Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date KT 06/14/13
Review by/Date: MPC 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 8:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH014.D

(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L

response 2734937

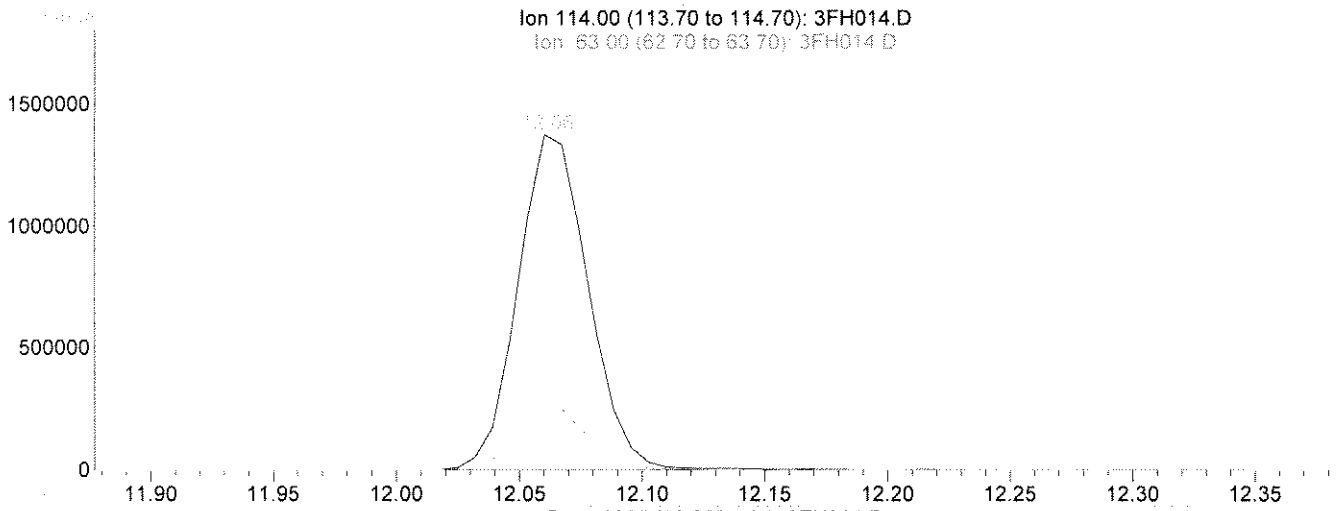
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	18.96
88.00	20.10	16.23
0.00	0.00	0.00

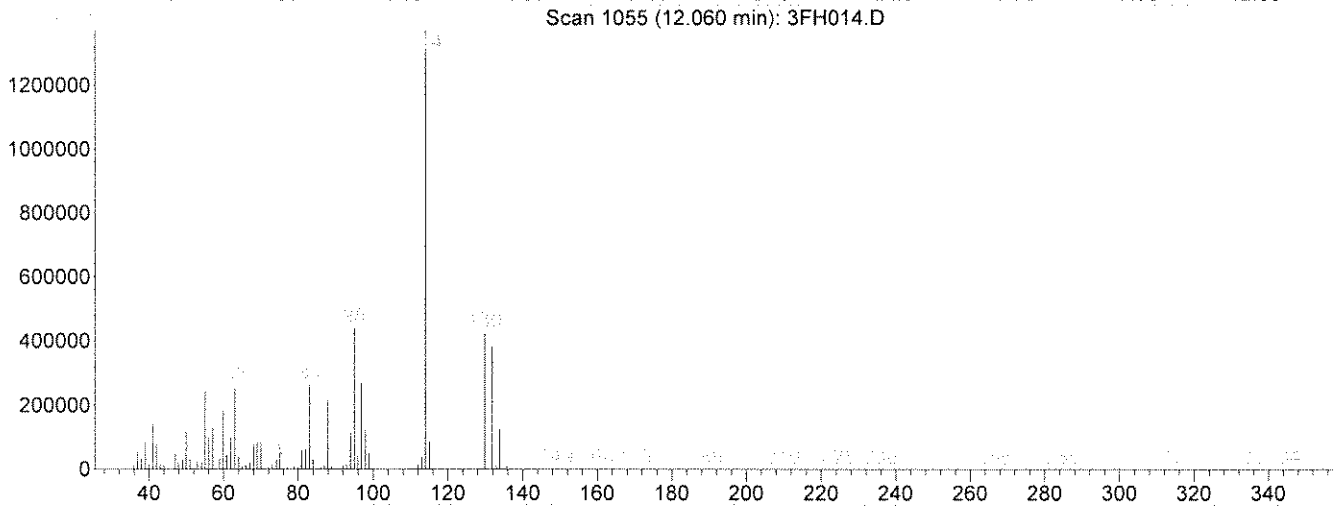
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date VT 061413
Reviewed by/Date: MRell 6/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 9:49 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH014.D

(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L m

response 2715736

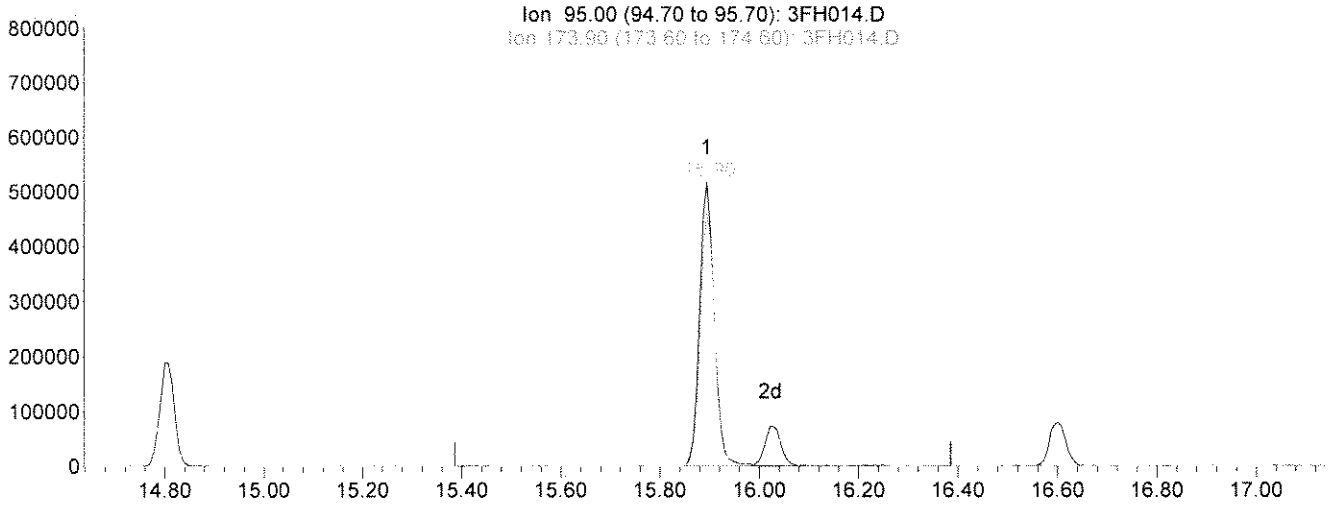
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	19.09
88.00	20.10	16.35
0.00	0.00	0.00

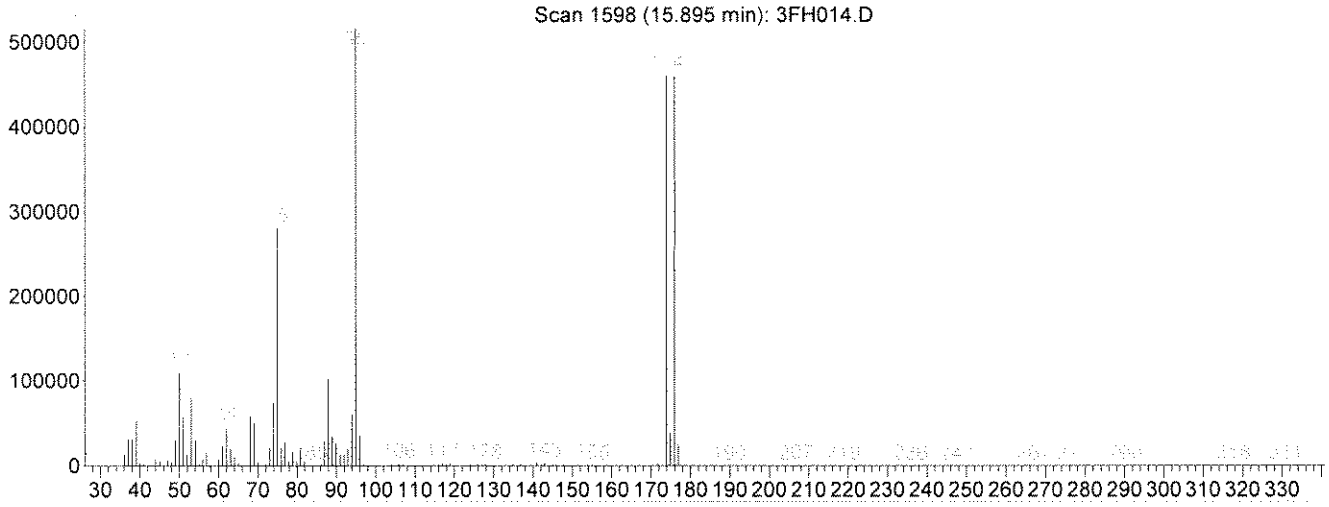
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date KG 06/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:01 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH014.D

(77) Bromofluorobenzene (s)

15.90min 38.65ug/L

response 1049818

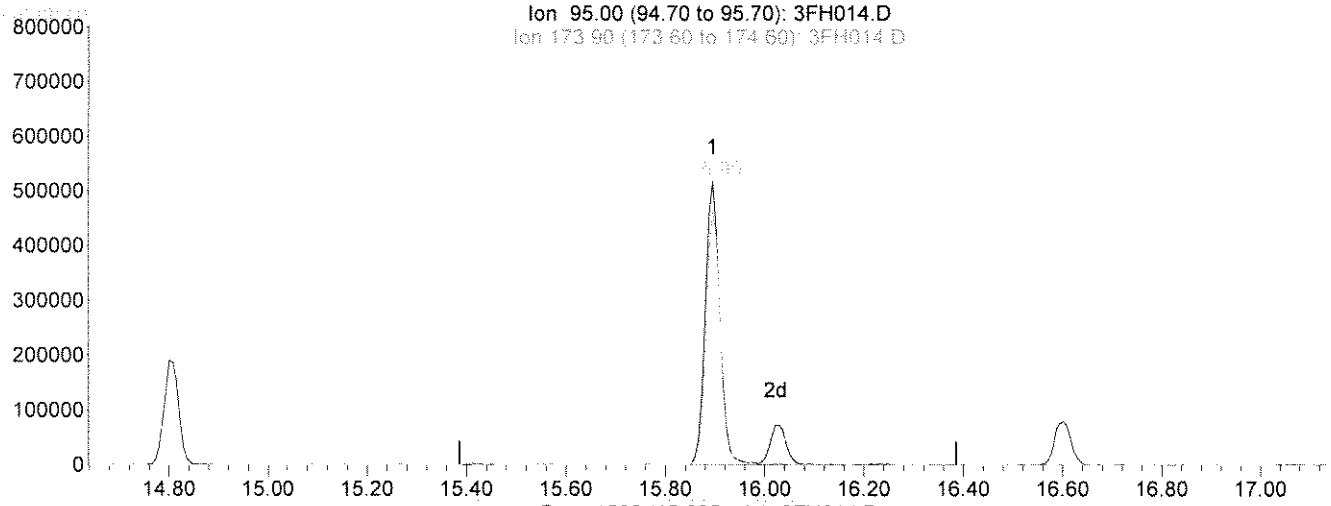
Ion	Exp%	Act%
95.00	100	100
173.90	64.80	89.60#
74.95	57.00	72.15#
0.00	0.00	0.00

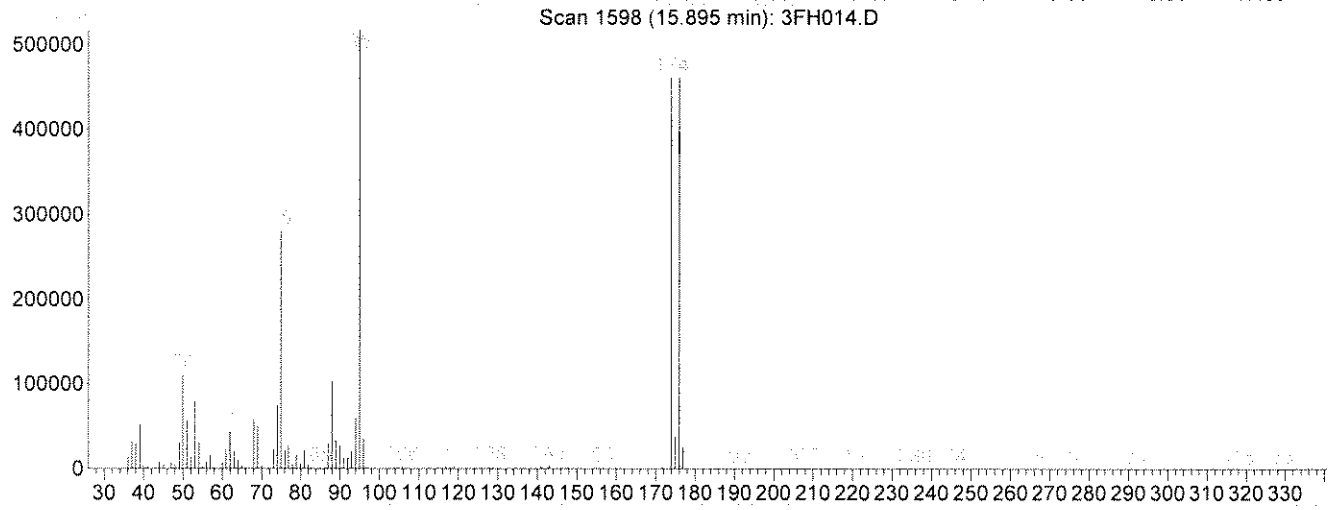
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date KT 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH014.D Vial: 14
Acq On : 13 Jun 2013 16:39 Operator: kwb
Sample : aa24527-scv1 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH014.D

(77) Bromofluorobenzene (s)

15.90min 44.75ug/L m

response 1215433

Ion	Exp%	Act%
95.00	100	100
173.90	64.80	77.39
74.95	57.00	62.32
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date KC 6/14/13
Review by/Date: NP 6/14/13

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 3FH014.D
Sample ID: AA24527-SCV1
Analysis Date: 6/13/2013 4:39:00PM
Calibration: 1306033

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Dichlorodifluoromethane	50.0	58	80	120	116	PASS
Chloromethane	50.0	57	80	120	113	PASS
Vinyl chloride	50.0	50	80	120	99	PASS
Bromomethane	50.0	44	80	120	89	PASS
Chloroethane	50.0	49	80	120	98	PASS
Trichlorofluoromethane	50.0	52	80	120	105	PASS
Freon 113	50.0	48	80	120	97	PASS
Acrolein	250	240	75	125	95	PASS
Acetone	125	120	80	120	94	PASS
1,1-Dichloroethene	50.0	51	80	120	101	PASS
3-Chloropropene	50.0	52	75	125	104	PASS
Acetonitrile	50.0	42	75	125	84	PASS
Iodomethane	50.0	49	75	125	99	PASS
Carbon disulfide	50.0	49	80	120	99	PASS
Methylene Chloride	50.0	47	80	120	93	PASS
Methyl-tert-Butyl Ether	50.0	55	80	120	110	PASS
Acrylonitrile	50.0	57	75	125	113	PASS
trans-1,2-Dichloroethene	50.0	50	80	120	100	PASS
Isopropyl Ether	50.0	55	75	125	110	PASS
cis-1,2-Dichloroethene	50.0	51	80	120	101	PASS
1,1-Dichloroethane	50.0	50	80	120	100	PASS
Vinyl acetate	50.0	55	75	125	110	PASS
Chloroprene	50.0	55	75	125	109	PASS
2-Butanone	125	150	80	120	117	PASS
Propionitrile	50.0	54	75	125	109	PASS
2,2-Dichloropropane	50.0	47	80	120	95	PASS
Methacrylonitrile	50.0	53	75	125	106	PASS
Chloroform	50.0	48	80	120	97	PASS
Bromochloromethane	50.0	50	80	120	101	PASS
1,1,1-Trichloroethane	50.0	50	80	120	99	PASS
1,1-Dichloropropene	50.0	54	80	120	108	PASS
Diethyl ether	50.0	48	75	125	96	PASS
Methyl acetate	50.0	58	80	120	116	PASS
Cyclohexane	50.0	49	80	120	98	PASS
Methyl cyclohexane	50.0	44	80	120	88	PASS
Carbon Tetrachloride	50.0	48	80	120	96	PASS
1,2-Dichloroethane	50.0	48	80	120	96	PASS
Benzene	50.0	50	80	120	100	PASS
Isobutyl alcohol	50.0	51	75	125	101	PASS
Trichloroethene	50.0	46	80	120	92	PASS
1,2-Dichloropropane	50.0	47	80	120	94	PASS
Methyl Methacrylate	50.0	52	75	125	104	PASS
1,4-Dioxane	50.0	57	75	125	114	PASS
Bromodichloromethane	50.0	50	80	120	99	PASS
Dibromomethane	50.0	49	80	120	97	PASS
4-Methyl-2-pentanone	125	140	80	120	110	PASS
2-Chloroethyl Vinyl Ether	50.0	53	80	120	105	PASS
2-Hexanone	125	140	80	120	113	PASS
cis-1,3-Dichloropropene	50.0	51	80	120	102	PASS
Toluene	50.0	48	80	120	96	PASS
Ethyl Methacrylate	50.0	53	75	125	105	PASS
trans-1,3-Dichloropropene	50.0	53	80	120	106	PASS
1,1,2-Trichloroethane	50.0	46	80	120	92	PASS
1,3-Dichloropropane	50.0	45	80	120	90	PASS

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 3FH014.D
Sample ID: AA24527-SCV1
Analysis Date: 6/13/2013 4:39:00PM
Calibration: 1306033

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Tetrachloroethene	50.0	49	80	120	97	PASS
Dibromochloromethane	50.0	49	80	120	99	PASS
1,2-Dibromoethane	50.0	47	80	120	94	PASS
Chlorobenzene	50.0	43	80	120	87	PASS
1,1,1,2-Tetrachloroethane	50.0	46	80	120	93	PASS
Ethylbenzene	50.0	51	80	120	102	PASS
m,p-Xylenes	100	93	80	120	93	PASS
o-Xylene	50.0	50	80	120	99	PASS
Bromoform	50.0	45	80	120	91	PASS
Styrene	50.0	52	80	120	104	PASS
Isopropylbenzene	50.0	48	80	120	97	PASS
1,2,3-Trichloropropane	50.0	47	80	120	94	PASS
1,1,2,2-Tetrachloroethane	50.0	45	80	120	90	PASS
trans-1,4-Dichloro-2-butene	50.0	50	75	125	99	PASS
n-Propyl Benzene	50.0	48	80	120	97	PASS
Bromobenzene	50.0	47	80	120	95	PASS
1,3,5-Trimethylbenzene	50.0	50	80	120	100	PASS
2-Chlorotoluene	50.0	45	80	120	90	PASS
4-Chlorotoluene	50.0	49	80	120	97	PASS
1,2,4-Trichlorobenzene	50.0	46	80	120	91	PASS
sec-Butylbenzene	50.0	50	80	120	100	PASS
tert-Butylbenzene	50.0	49	80	120	99	PASS
4-Isopropyltoluene	50.0	57	80	120	113	PASS
1,3-Dichlorobenzene	50.0	44	80	120	87	PASS
1,4-Dichlorobenzene	50.0	44	80	120	89	PASS
1,2-Dichlorobenzene	50.0	45	80	120	90	PASS
n-Butyl Benzene	50.0	51	80	120	102	PASS
1,2-Dibromo-3-chloropropane	50.0	47	80	120	94	PASS
Naphthalene	50.0	45	80	120	90	PASS
1,2,4-Trimethylbenzene	50.0	48	80	120	96	PASS
Hexachlorobutadiene	50.0	45	80	120	89	PASS
1,2,3-Trichlorobenzene	50.0	47	80	120	94	PASS
Dibromofluoromethane	50.0	41	80	120	83	PASS
1,2-Dichloroethane-d4	50.0	42	80	120	83	PASS
Toluene-d8	50.0	43	80	120	87	PASS
4-Bromofluorobenzene	50.0	45	80	120	90	PASS
Pentafluorobenzene	50.0	50	50	200	89	PASS
1,4-Difluorobenzene	50.0	50	50	200	95	PASS
Chlorobenzene-d5	50.0	50	50	200	100	PASS
1,4-Dichlorobenzene-d4	50.0	50	50	200	105	PASS

KTupp
Signature

6-14-13
Date

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

KT061413

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene(IS)	1.000	1.000	0.0	98	0.00
2		Dichlorodifluoromethane	1.037	1.128	-8.8	108	0.00
3	**	Chloromethane	1.060	1.170	-10.4	114	0.00
4	*	Vinyl Chloride	1.090	1.074	1.5	94	0.01
5		Bromomethane	0.737	0.615	16.6	95	0.00
6		Chloroethane	0.622	0.514	17.4	97	0.00
7		Trichlorofluoromethane	1.309	1.244	5.0	98	0.00
8		Trichlorotrifluoroethane	0.888	0.788	11.3	92	0.00
9		acrolein	0.060	0.029#	51.7#	43#	0.00
10		Acetone	0.150	0.319	-112.7#	224#	0.00
11	*m	1,1-Dichloroethene	0.687	0.637	7.3	99	0.00
12		3-Chloropropene	0.351	0.348	0.9	89	0.00
13		Acetonitrile	0.055	0.005#	90.9#	10#	0.01
14		Iodomethane	0.926	0.907	2.1	98	0.00
15		Carbon disulfide	2.565	2.226	13.2	91	0.00
16		Methylene Chloride	0.797	0.703	11.8	95	0.00
17		Methyl tert-butyl ether	0.878	1.017	-15.8	99	0.01
18		Acrylonitrile	0.159	0.017#	89.3#	10#	0.00
19		T-1,2-Dichloroethene	0.694	0.686	1.2	94	0.01
20		Isopropyl Ether	1.959	2.131	-8.8	94	0.01
21		C-1,2-Dichloroethene	0.722	0.715	1.0	90	0.00
22	**	1,1-Dichloroethane	1.257	1.176	6.4	95	0.01
23		Vinyl Acetate	1.321	1.317	0.3	88	0.00
24		Chloroprene	0.821	0.898	-9.4	95	0.00
25		2-Butanone	0.038	0.111	-192.1#	258#	0.00
26		Propionitrile	0.059	0.006#	89.8#	12#	0.00
27		2,2-Dichloropropane	0.861	0.802	6.9	92	0.00
28		Methacrylonitrile	0.192	0.019#	90.1#	10#	0.00
29	*	Chloroform	1.277	1.159	9.2	94	0.00
30	s	Dibromofluoromethane	0.783	0.316	59.6#	38#	0.01
31		Dibromofluoromethane	0.783	0.316	59.6#	38#	0.01
32		Bromochloromethane	0.403	0.381	5.5	97	0.00
33		1,1,1-Trichloroethane	0.984	0.899	8.6	94	0.00
34		1,1-Dichloropropene	0.786	0.809	-2.9	90	0.00
35		Diethyl ether	0.551	0.498	9.6	93	0.01
36		Methyl Acetate	0.078	0.068#	12.8	85	0.01
37		Cyclohexane	1.082	1.023	5.5	85	0.00
38	i	1,4-Difluorobenzene(IS)	1.000	1.000	0.0	103	0.00
39		Methyl Cyclohexane	0.614	0.506	17.6	89	0.00
40		Carbon Tetrachloride	0.545	0.490	10.1	94	0.00
41		1,2-Dichloroethane	0.490	0.442	9.8	94	0.00
42	m	Benzene	1.514	1.405	7.2	98	0.00
43		Isobutyl Alcohol	0.013	0.001#	92.3#	4#	0.00
44	s	1,2-Dichloroethane-d4	0.401	0.173	56.9#	41#	0.01
45		1,2-Dichloroethane-d4	0.401	0.173	56.9#	41#	0.00
46	m	Trichloroethene	0.466	0.414	11.2	96	0.00
47	*	1,2-Dichloropropane	0.409	0.378	7.6	97	0.00
48		Methyl Methacrylate	0.075	0.080#	-6.7	101	0.01
49		1,4-Dioxane	0.002	0.000#	100.0#	5#	0.00
50		Bromodichloromethane	0.534	0.493	7.7	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51		Dibromomethane	0.261	0.238	8.8	94	0.00
52		4-Methyl-2-Pentanone	0.034	0.093#	-173.5#	271#	0.01
53		2-Chloroethyl vinyl ether	0.004	0.004#	0.0	104	0.00
54		2-Hexanone	0.177	0.482	-172.3#	253#	0.01
55		C-1,3-Dichloropropene	0.558	0.550	1.4	88	0.00
56	s	D8-Toluene	1.220	0.533	56.3#	38#	0.00
57		D8-Toluene	1.220	0.533	56.3#	38#	0.00
58	i	Chlorobenzene-d5(IS)	1.000	1.000	0.0	104	0.00
59	m*	Toluene	1.008	0.958	5.0	90	0.00
60		Ethyl Methacrylate	0.388	0.410	-5.7	100	0.00
61		T-1,3-Dichloropropene	0.508	0.548	-7.9	101	0.00
62		1,1,2-Trichloroethane	0.374	0.346	7.5	98	0.00
63		1,3-Dichloropropane	0.622	0.561	9.8	94	0.00
64		Tetrachloroethene	0.372	0.356	4.3	96	0.00
65		Dibromochloromethane	0.453	0.448	1.1	99	0.00
66		1,2-Dibromoethane	0.392	0.374	4.6	98	0.00
67	**m	Chlorobenzene	1.350	1.144	15.3	92	0.00
68		1,1,1,2-Tetrachloroethane	0.443	0.404	8.8	94	0.00
69	*	Ethylbenzene	0.541	0.572	-5.7	94	0.00
70		m-xylene & p-xylene	0.749	0.669	10.7	89	0.00
71		O-Xylene	0.661	0.686	-3.8	91	0.01
72	**	Bromoform	0.302	0.274	9.3	94	0.01
73		Styrene	1.118	1.196	-7.0	95	0.00
74		Isopropylbenzene	1.752	1.658	5.4	90	0.00
75		1,2,3-Trichloropropane	0.448	0.410	8.5	101	0.00
76	**	1,1,2,2-Tetrachloroethane	0.485	0.409	15.7	93	0.00
77	s	Bromofluorobenzene	0.522	0.216	58.6#	38#	0.01
78		Bromofluorobenzene	0.522	0.216	58.6#	38#	0.00
79		T-1,4-dichloro-2-butene	0.069	0.071#	-2.9	103	0.00
80		N-Propylbenzene	2.109	1.931	8.4	91	0.00
81	i	1,4-Dichlorobenzene-d4(IS)	1.000	1.000	0.0	110	0.00
82		Bromobenzene	1.072	0.979	8.7	93	0.00
83		1,3,5-Trimethylbenzene	2.912	2.710	6.9	90	0.01
84		2-Chlorotoluene	2.834	2.444	13.8	91	0.01
85		4-Chlorotoluene	2.639	2.448	7.2	90	0.00
86		1,2,4-Trimethylbenzene	2.844	2.731	4.0	94	0.00
87		s-Butylbenzene	3.995	3.651	8.6	89	0.00
88		tert-Butylbenzene	2.599	2.474	4.8	89	0.00
89		p-Isopropyltoluene	2.826	2.988	-5.7	100	0.00
90		1,3-Dichlorobenzene	1.998	1.665	16.7	89	0.01
91		1,4-Dichlorobenzene	1.987	1.695	14.7	97	0.00
92		1,2-Dichlorobenzene	1.781	1.556	12.6	93	0.01
93		N-Butylbenzene	2.838	2.695	5.0	92	0.00
94		DBCP	0.116	0.104	10.3	94	0.00
95		Naphthalene	1.823	1.809	0.8	94	0.00
96		1,2,4-Trichlorobenzene	1.081	0.944	12.7	89	0.00
97		Hexachlorobutadiene	0.617	0.520	15.7	91	0.00
98		1,2,3-Trichlorobenzene	0.937	0.873	6.8	89	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D
Vial: 15
Acq On : 13 Jun 2013 17:09
Operator: kwb
Sample : aa24527-scv2
Inst : OVGCMS3
Misc :
Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013
Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

LQ 0614B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene(IS)	11.48	168	1753593m	50.00	ug/L	0.00
38) 1,4-Difluorobenzene(IS)	12.06	114	2941794m	50.00	ug/L	0.00
58) Chlorobenzene-d5(IS)	14.75	117	2694898	50.00	ug/L	0.00
81) 1,4-Dichlorobenzene-d4(IS)	17.14	152	1295633	50.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	11.09	113	1106596	40.31	ug/L	0.01
Spiked Amount 50.000	Range 53 - 146		Recovery = 80.62%			
44) 1,2-Dichloroethane-d4	11.66	65	1015229	43.01	ug/l	0.01
Spiked Amount 50.000	Range 45 - 174		Recovery = 86.02%			
56) D8-Toluene	13.34	98	3134773	43.66	ug/L	0.00
Spiked Amount 50.000	Range 41 - 146		Recovery = 87.32%			
77) Bromofluorobenzene	15.90	95	1166348	41.49	ug/L	0.01
Spiked Amount 50.000	Range 41 - 142		Recovery = 82.98%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.98	85	3955548	108.72	ug/L	92
3) Chloromethane	5.54	50	4104779	110.42	ug/L	100
4) Vinyl Chloride	5.78	62	3767349	98.55	ug/L	99
5) Bromomethane	6.58	94	2158302	83.49	ug/L	84
6) Chloroethane	6.83	64	1801734	82.62	ug/L	92
7) Trichlorofluoromethane	7.13	101	4363788	95.04	ug/L	96
8) Trichlorotrifluoroethane	8.10	101	2762882	88.76	ug/L	77
9) acrolein	8.62	56	1010737	484.04	ug/L	99
10) Acetone	9.04	43	1118338	212.98	ug/L	79
11) 1,1-Dichloroethene	8.07	96	2233762	92.73	ug/L #	65
12) 3-Chloropropene	8.81	76	1220142	99.23	ug/L	49
13) Acetonitrile	9.70	41	183483	94.49	ug/L	74
14) Iodomethane	8.33	142	3179489	97.94	ug/L	98
15) Carbon disulfide	8.16	76	7808068	86.79	ug/L	94
16) Methylene Chloride	8.97	84	2464918	88.20	ug/L #	78
17) Methyl tert-butyl ether	9.32	73	3565951	115.86	ug/L	90
18) Acrylonitrile	10.07	53	588937	105.60	ug/L	99
19) T-1,2-Dichloroethene	9.20	96	2405552	98.82	ug/L	67
20) Isopropyl Ether	9.76	45	7472435	108.77	ug/L #	89
21) C-1,2-Dichloroethene	10.61	96	2506599	98.97	ug/L	78
22) 1,1-Dichloroethane	10.00	63	4123585	93.52	ug/L	93
23) Vinyl Acetate	10.22	43	4619391	99.69	ug/L	93
24) Chloroprene	9.96	53	3149542	109.42	ug/L	75
25) 2-Butanone	11.20	72	389403	292.90	ug/L	58
26) Propionitrile	11.54	54	223705	108.13	ug/L	100
27) 2,2-Dichloropropane	10.74	77	2811079	93.12	ug/L	96
28) Methacrylonitrile	11.55	67	680493	101.24	ug/L	97
29) Chloroform	10.88	83	4063550	90.74	ug/L	97
31) Dibromofluoromethane	11.09	113	1106596	40.31	ug/L	100
32) Bromochloromethane	10.85	128	1335929	94.42	ug/L	73
33) 1,1,1-Trichloroethane	11.14	97	3152717	91.37	ug/L	94
34) 1,1-Dichloropropene	11.26	75	2837930	102.91	ug/L	92
35) Diethyl ether	7.71	59	1748290	90.54	ug/l	91
36) Methyl Acetate	9.18	74	239576	87.64	ug/l	64
37) Cyclohexane	10.85	56	3586947	94.56	ug/l #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Methyl Cyclohexane	12.08	55	2979730	82.52 ug/l #	73
40) Carbon Tetrachloride	11.07	117	2884148	90.00 ug/L	96
41) 1,2-Dichloroethane	11.72	62	2601808	90.24 ug/L	96
42) Benzene	11.53	78	8266320	92.77 ug/L	93
43) Isobutyl Alcohol	11.58	43	65490	84.66 ug/L	1
45) 1,2-Dichloroethane-d4	11.66	65	1015229	43.01 ug/l	93
46) Trichloroethene	12.07	130	2435127	88.77 ug/L #	81
47) 1,2-Dichloropropane	12.59	63	2223463	92.44 ug/L	85
48) Methyl Methacrylate	12.66	100	472921	107.58 ug/L	60
49) 1,4-Dioxane	12.78	88	15589	109.49 ug/L	14
50) Bromodichloromethane	12.61	83	2897966	92.22 ug/L	94
51) Dibromomethane	12.51	93	1399233	91.25 ug/L #	82
52) 4-Methyl-2-Pentanone	13.67	100	549512	278.33 ug/L	61
53) 2-Chloroethyl vinyl ether	13.16	63	20985	96.39 ug/L	90
54) 2-Hexanone	14.39	43	2832999	271.29 ug/L	91
55) C-1,3-Dichloropropene	13.17	75	3238280	98.58 ug/L	80
57) D8-Toluene	13.34	98	3134773	43.66 ug/L #	93
59) Toluene	13.39	92	5161618	95.01 ug/L	92
60) Ethyl Methacrylate	13.76	69	2208501	105.66 ug/L	81
61) T-1,3-Dichloropropene	13.73	75	2954998	107.84 ug/L	85
62) 1,1,2-Trichloroethane	13.89	97	1864405	92.49 ug/L	94
63) 1,3-Dichloropropane	14.15	76	3025374	90.19 ug/L	99
64) Tetrachloroethene	13.75	164	1920555	95.74 ug/L	96
65) Dibromochloromethane	14.08	129	2414580	98.95 ug/L	97
66) 1,2-Dibromoethane	14.34	107	2016853	95.42 ug/L	100
67) Chlorobenzene	14.77	112	6167165	84.74 ug/L	97
68) 1,1,1,2-Tetrachloroethane	14.80	131	2175342	91.06 ug/L	98
69) Ethylbenzene	14.73	106	3084150	105.83 ug/L	71
70) m-xylene & p-xylene	14.85	106	7210325	178.70 ug/L	75
71) O-Xylene	15.28	106	3698004	103.83 ug/L	81
72) Bromoform	15.43	173	1479359	90.86 ug/L	99
73) Styrene	15.32	104	6444237	106.97 ug/L	97
74) Isopropylbenzene	15.54	105	8938024	94.64 ug/L	92
75) 1,2,3-Trichloropropane	16.23	75	2211930	91.70 ug/L	95
76) 1,1,2,2-Tetrachloroethane	16.02	83	2206289	84.49 ug/L	96
78) Bromofluorobenzene	15.90	95	1166348	41.49 ug/L #	58
79) T-1,4-dichloro-2-butene	16.22	53	384905	102.86 ug/L #	1
80) N-Propylbenzene	15.95	91	10409040	91.58 ug/L	89
82) Bromobenzene	16.05	156	2535691	91.29 ug/L	74
83) 1,3,5-Trimethylbenzene	16.12	105	7022407	93.07 ug/L	91
84) 2-Chlorotoluene	16.20	91	6333097	86.24 ug/L	82
85) 4-Chlorotoluene	16.37	91	6343426	92.76 ug/L	90
86) 1,2,4-Trimethylbenzene	16.56	105	7076882	96.02 ug/L	88
87) s-Butylbenzene	16.70	105	9461058	91.39 ug/L	97
88) tert-Butylbenzene	16.50	119	6411781	95.22 ug/L	88
89) p-Isopropyltoluene	16.82	119	7742993	105.75 ug/L	96
90) 1,3-Dichlorobenzene	17.07	146	4315247	83.35 ug/L	95
91) 1,4-Dichlorobenzene	17.16	146	4390924	85.29 ug/L	98
92) 1,2-Dichlorobenzene	17.74	146	4031216	87.36 ug/L	95
93) N-Butylbenzene	17.35	91	6982409	94.94 ug/L	95
94) DBCP	18.92	75	270377	90.08 ug/L	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013 Quant Results File: W1306033.RES

Quant Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration
DataAcq Meth : 8260S

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	20.89	128	4686676	99.23 ug/L	100
96) 1,2,4-Trichlorobenzene	20.15	180	2446995	87.39 ug/L	99
97) Hexachlorobutadiene	19.97	225	1348648	84.30 ug/L	99
98) 1,2,3-Trichlorobenzene	21.33	180	2263043	93.20 ug/L	96

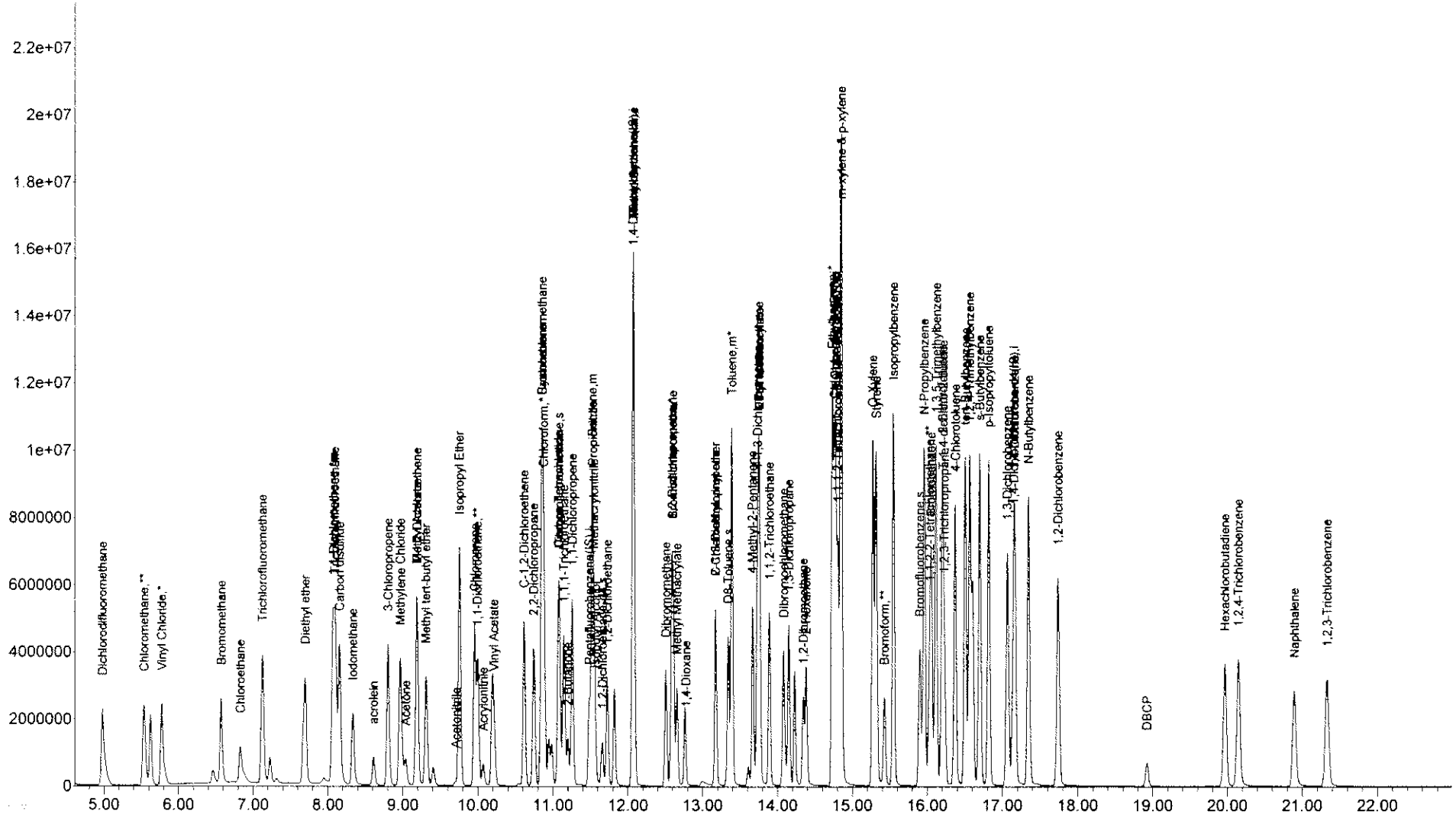
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:02 2013 Quant Results File: W1306033.RES

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Initial Calibration

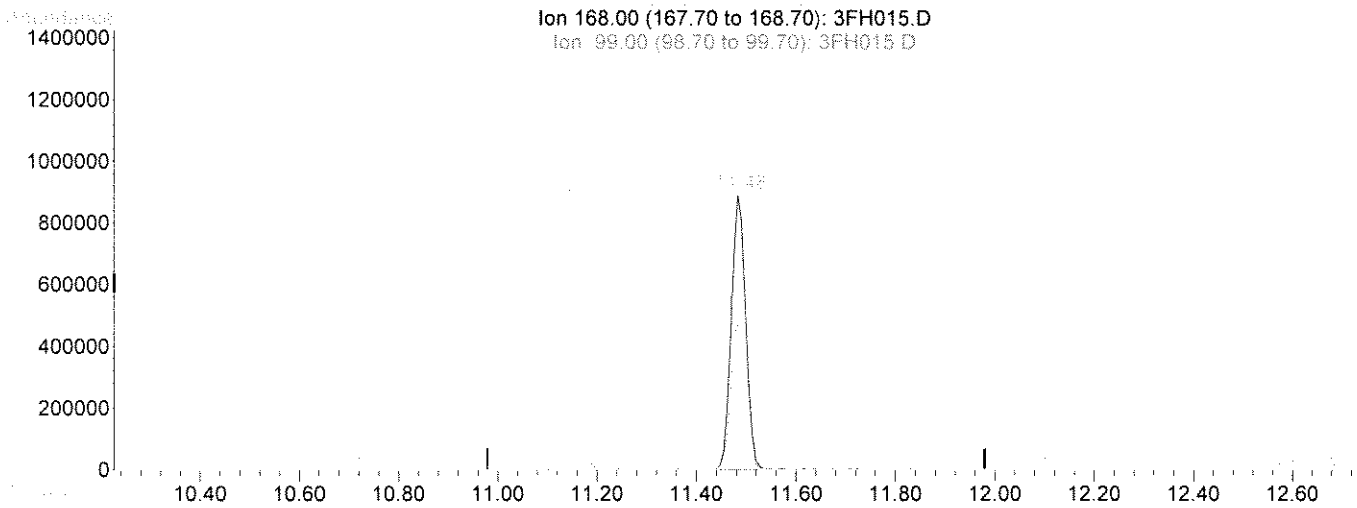
TIC: 3FH015.D

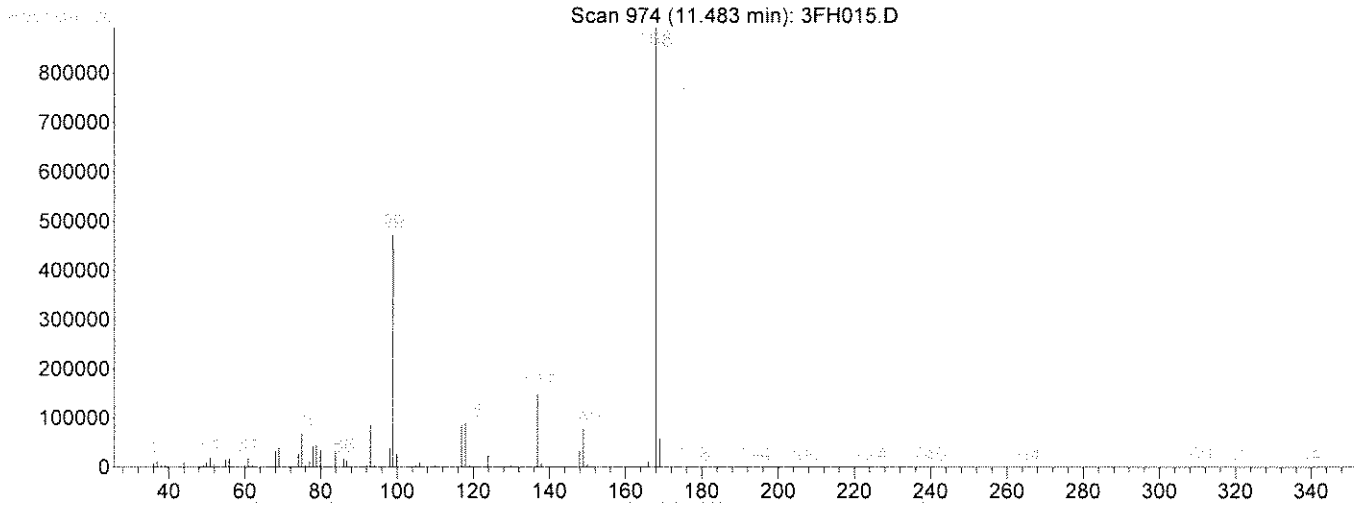


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 8:37 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH015.D

(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L

response 1758355

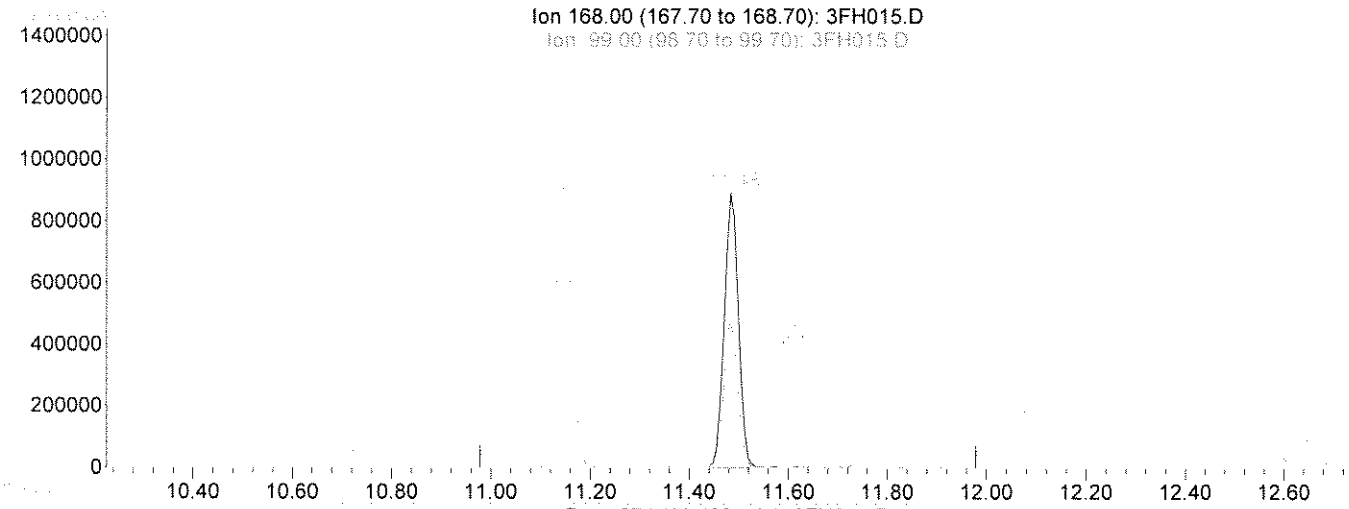
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	53.50
169.00	6.30	6.53
0.00	0.00	0.00

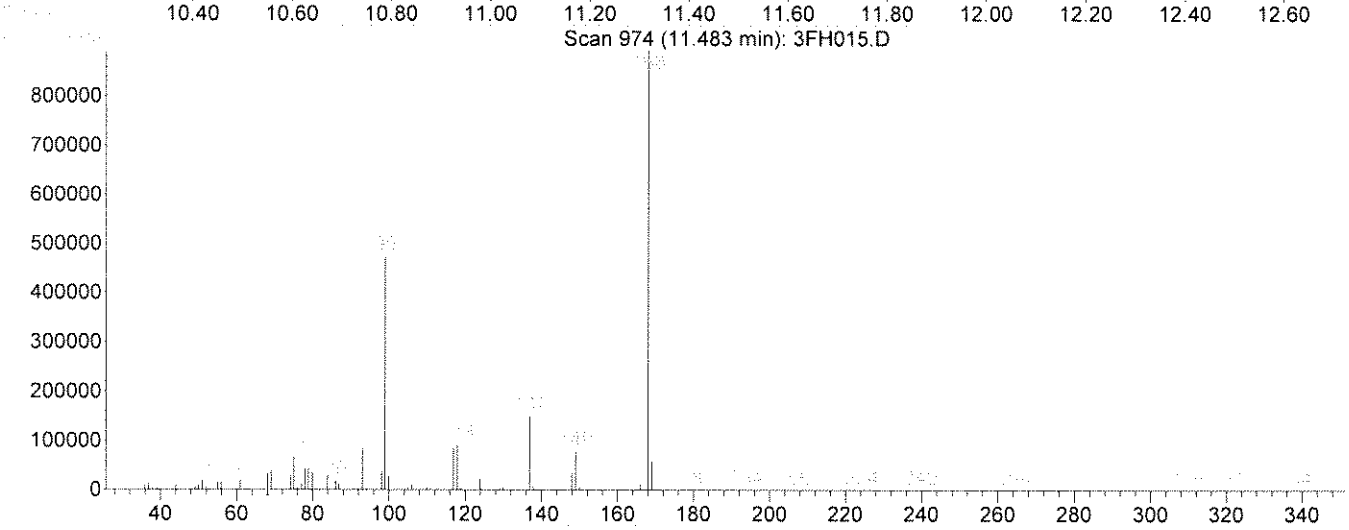
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KE 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 9:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH015.D

(1) Pentafluorobenzene(IS) (i)

11.48min 50.00ug/L m

response 1753593

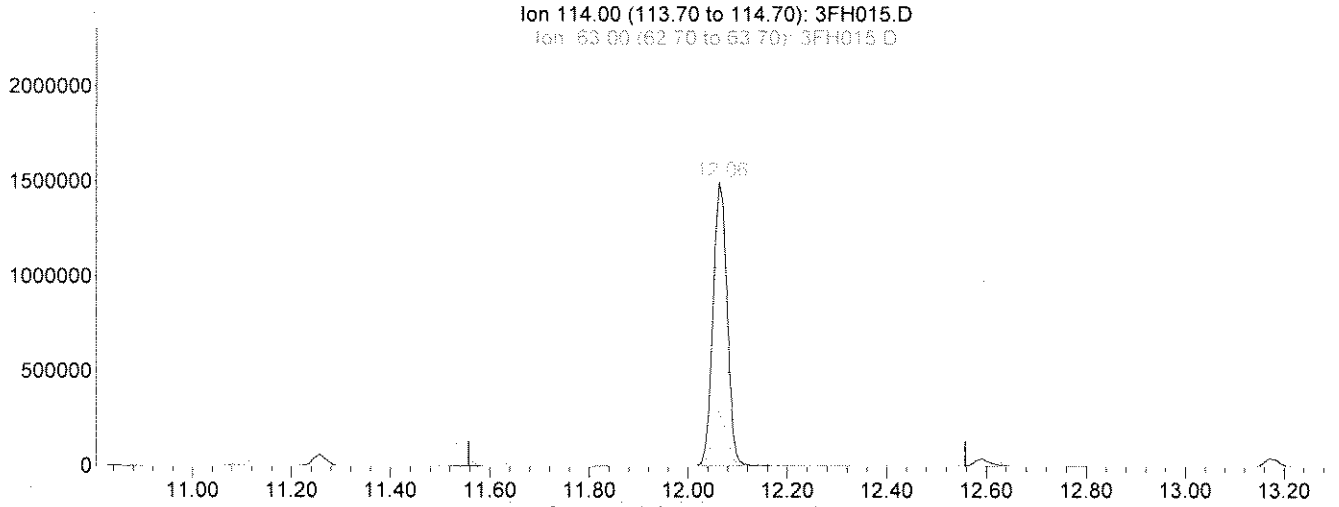
Ion	Exp%	Act%
168.00	100	100
99.00	46.30	53.65
169.00	6.30	6.55
0.00	0.00	0.00

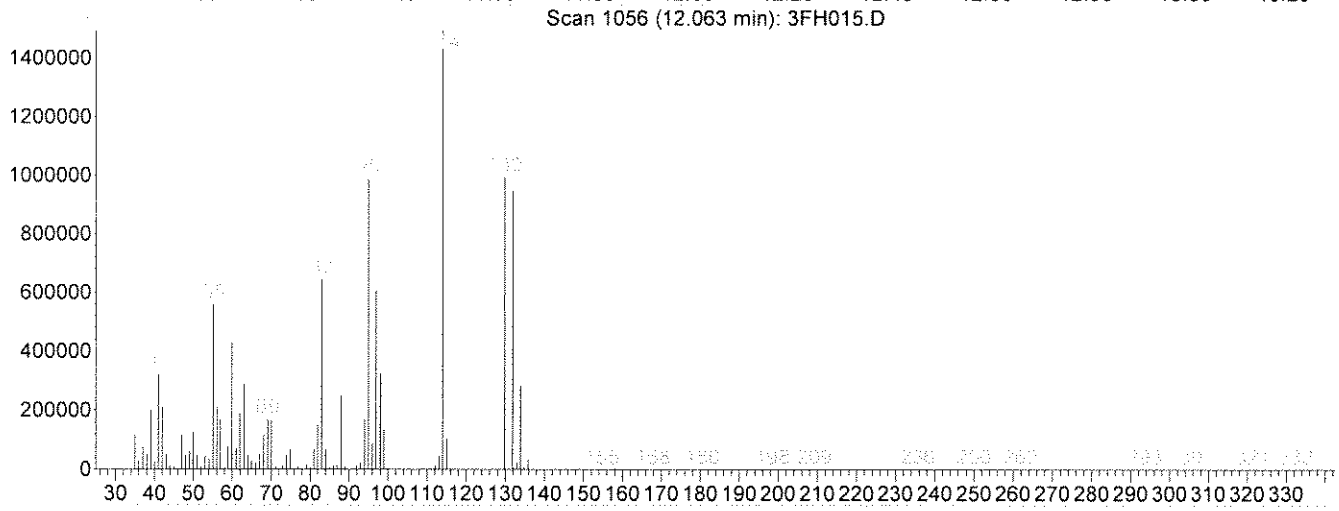
Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date GD 6/14/13
Review by/Date: NP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 9:51 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





TIC: 3FH015.D

(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L

response 2959374

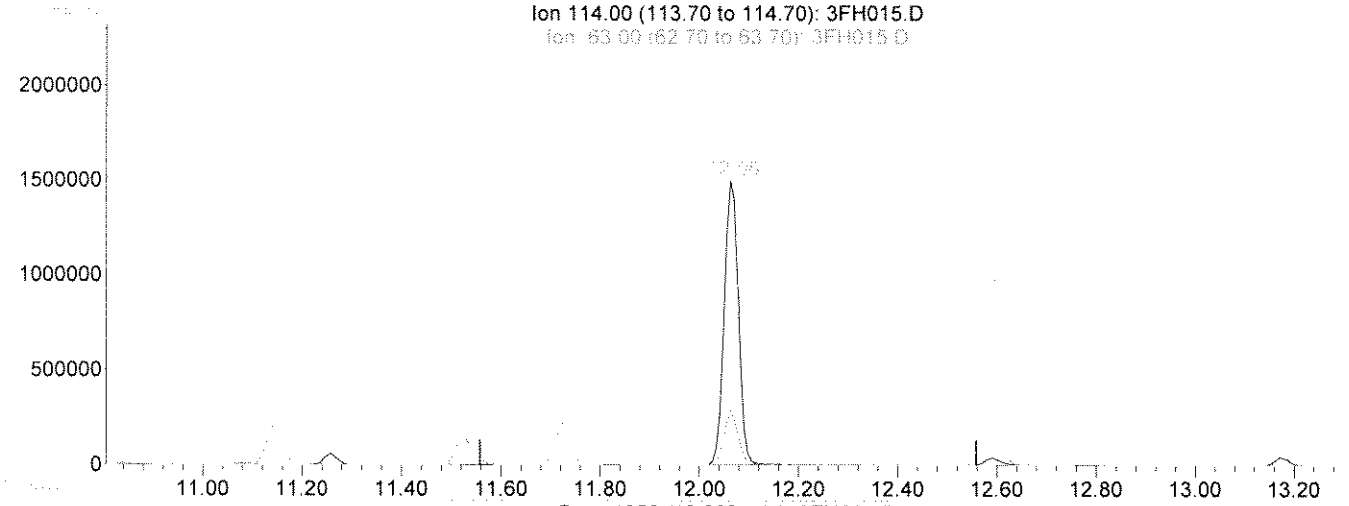
Ion	Exp%	Act%
114.00	100	100
63.00	24.70	18.87
88.00	20.10	16.11
0.00	0.00	0.00

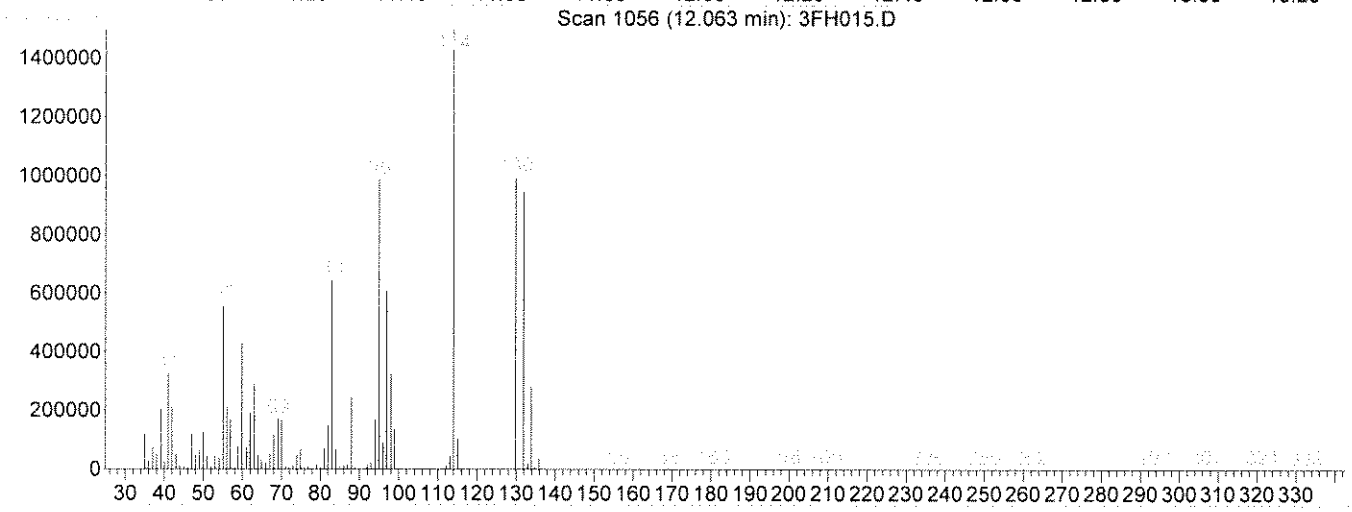
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date CD 6/14/13
Review by/Date: MP 6/14/13

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\061313\3FH015.D Vial: 15
Acq On : 13 Jun 2013 17:09 Operator: kwb
Sample : aa24527-scv2 Inst : OVGCMS3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 9:52 2013 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\W1306033.M (RTE Integrator)
Title : ENCO SOPVGCMS/05;element cal 1306033
Last Update : Fri Jun 14 08:07:30 2013
Response via : Multiple Level Calibration





(38) 1,4-Difluorobenzene(IS) (i)

12.06min 50.00ug/L m

response 2941794

Ion	Exp%	Act%
114.00	100	100
63.00	24.70	18.98
88.00	20.10	16.21
0.00	0.00	0.00

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date LT 061413
Review by/Date: NP 6/14/13

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 3FH015.D
Sample ID: AA24527-SCV2
Analysis Date: 6/13/2013 5:09:00PM
Calibration: 1306033

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Dichlorodifluoromethane	100	110	80	120	109	PASS
Chloromethane	100	110	80	120	110	PASS
Vinyl chloride	100	99	80	120	99	PASS
Bromomethane	100	83	80	120	83	PASS
Chloroethane	100	83	80	120	83	PASS
Trichlorofluoromethane	100	95	80	120	95	PASS
Freon 113	100	89	80	120	89	PASS
Acrolein	500	480	75	125	97	PASS
Acetone	250	210	80	120	85	PASS
1,1-Dichloroethene	100	93	80	120	93	PASS
3-Chloropropene	100	99	75	125	99	PASS
Acetonitrile	100	94	75	125	94	PASS
Iodomethane	100	98	75	125	98	PASS
Carbon disulfide	100	87	80	120	87	PASS
Methylene Chloride	100	88	80	120	88	PASS
Methyl-tert-Butyl Ether	100	120	80	120	116	PASS
Acrylonitrile	100	110	75	125	106	PASS
trans-1,2-Dichloroethene	100	99	80	120	99	PASS
Isopropyl Ether	100	110	75	125	109	PASS
cis-1,2-Dichloroethene	100	99	80	120	99	PASS
1,1-Dichloroethane	100	94	80	120	94	PASS
Vinyl acetate	100	100	75	125	100	PASS
Chloroprene	100	110	75	125	109	PASS
2-Butanone	250	290	80	120	117	PASS
Propionitrile	100	110	75	125	108	PASS
2,2-Dichloropropane	100	93	80	120	93	PASS
Methacrylonitrile	100	100	75	125	101	PASS
Chloroform	100	91	80	120	91	PASS
Bromochloromethane	100	94	80	120	94	PASS
1,1,1-Trichloroethane	100	91	80	120	91	PASS
1,1-Dichloropropene	100	100	80	120	103	PASS
Diethyl ether	100	91	75	125	91	PASS
Methyl acetate	100	88	80	120	88	PASS
Cyclohexane	100	95	80	120	95	PASS
Methyl cyclohexane	100	83	80	120	83	PASS
Carbon Tetrachloride	100	90	80	120	90	PASS
1,2-Dichloroethane	100	90	80	120	90	PASS
Benzene	100	93	80	120	93	PASS
Isobutyl alcohol	100	85	75	125	85	PASS
Trichloroethene	100	89	80	120	89	PASS
1,2-Dichloropropane	100	92	80	120	92	PASS
Methyl Methacrylate	100	110	75	125	108	PASS
1,4-Dioxane	100	110	75	125	109	PASS
Bromodichloromethane	100	92	80	120	92	PASS
Dibromomethane	100	91	80	120	91	PASS
4-Methyl-2-pentanone	250	280	80	120	111	PASS
2-Chloroethyl Vinyl Ether	100	96	80	120	96	PASS
2-Hexanone	250	270	80	120	109	PASS
cis-1,3-Dichloropropene	100	99	80	120	99	PASS
Toluene	100	95	80	120	95	PASS
Ethyl Methacrylate	100	110	75	125	106	PASS
trans-1,3-Dichloropropene	100	110	80	120	108	PASS
1,1,2-Trichloroethane	100	92	80	120	92	PASS
1,3-Dichloropropane	100	90	80	120	90	PASS

Initial Calibration Verification - Second Source Standard
8260B DOD Extended

File Information

Filename: 3FH015.D
Sample ID: AA24527-SCV2
Analysis Date: 6/13/2013 5:09:00PM
Calibration: 1306033

Comments:

Analyte	True Value	Actual Value	LCL	UCL	Recovery	PASS/FAIL
Tetrachloroethene	100	96	80	120	96	PASS
Dibromochloromethane	100	99	80	120	99	PASS
1,2-Dibromoethane	100	95	80	120	95	PASS
Chlorobenzene	100	85	80	120	85	PASS
1,1,1,2-Tetrachloroethane	100	91	80	120	91	PASS
Ethylbenzene	100	110	80	120	106	PASS
m,p-Xylenes	200	180	80	120	89	PASS
o-Xylene	100	100	80	120	104	PASS
Bromoform	100	91	80	120	91	PASS
Styrene	100	110	80	120	107	PASS
Isopropylbenzene	100	95	80	120	95	PASS
1,2,3-Trichloropropane	100	92	80	120	92	PASS
1,1,2,2-Tetrachloroethane	100	84	80	120	84	PASS
trans-1,4-Dichloro-2-butene	100	100	75	125	103	PASS
n-Propyl Benzene	100	92	80	120	92	PASS
Bromobenzene	100	91	80	120	91	PASS
1,3,5-Trimethylbenzene	100	93	80	120	93	PASS
2-Chlorotoluene	100	86	80	120	86	PASS
4-Chlorotoluene	100	93	80	120	93	PASS
1,2,4-Trichlorobenzene	100	87	80	120	87	PASS
sec-Butylbenzene	100	91	80	120	91	PASS
tert-Butylbenzene	100	95	80	120	95	PASS
4-Isopropyltoluene	100	110	80	120	106	PASS
1,3-Dichlorobenzene	100	83	80	120	83	PASS
1,4-Dichlorobenzene	100	85	80	120	85	PASS
1,2-Dichlorobenzene	100	87	80	120	87	PASS
n-Butyl Benzene	100	95	80	120	95	PASS
1,2-Dibromo-3-chloropropane	100	90	80	120	90	PASS
Naphthalene	100	99	80	120	99	PASS
1,2,4-Trimethylbenzene	100	96	80	120	96	PASS
Hexachlorobutadiene	100	84	80	120	84	PASS
1,2,3-Trichlorobenzene	100	93	80	120	93	PASS
Dibromofluoromethane	50.0	40	80	120	81	PASS
1,2-Dichloroethane-d4	50.0	43	80	120	86	PASS
Toluene-d8	50.0	44	80	120	87	PASS
4-Bromofluorobenzene	50.0	41	80	120	83	PASS
Pentafluorobenzene	50.0	50	50	200	98	PASS
1,4-Difluorobenzene	50.0	50	50	200	103	PASS
Chlorobenzene-d5	50.0	50	50	200	104	PASS
1,4-Dichlorobenzene-d4	50.0	50	50	200	110	PASS

Signature: KKrupp

Date: 6.14.13

DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

KT 6/14/13.

8260B DOD Extended

1,1,1,2-Tetrachloroethane Minimum RRT: 1.003 RRT Lower Limit: 0.943 RRT Upper Limit: 1.063

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	14.8	14.75	1.003	PASS
AA24527-CAL6	14.8	14.75	1.003	PASS
AA24527-CAL5	14.8	14.75	1.003	PASS
AA24527-CAL1	14.81	14.75	1.004	PASS
AA24527-CAL2	14.81	14.75	1.004	PASS
AA24527-CAL3	14.8	14.75	1.003	PASS

1,1,1-Trichloroethane Minimum RRT: 0.970 RRT Lower Limit: 0.910 RRT Upper Limit: 1.030

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	11.14	11.48	0.970	PASS
AA24527-CAL5	11.14	11.48	0.970	PASS
AA24527-CAL4	11.14	11.48	0.970	PASS
AA24527-CAL3	11.14	11.48	0.970	PASS
AA24527-CAL2	11.15	11.48	0.971	PASS
AA24527-CAL1	11.15	11.48	0.971	PASS

1,1,2,2-Tetrachloroethane Minimum RRT: 1.086 RRT Lower Limit: 1.026 RRT Upper Limit: 1.146

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	16.02	14.75	1.086	PASS
AA24527-CAL2	16.02	14.75	1.086	PASS
AA24527-CAL4	16.02	14.75	1.086	PASS
AA24527-CAL5	16.02	14.75	1.086	PASS
AA24527-CAL1	16.03	14.75	1.087	PASS
AA24527-CAL6	16.03	14.75	1.087	PASS

1,1,2-Trichloroethane Minimum RRT: 0.942 RRT Lower Limit: 0.882 RRT Upper Limit: 1.002

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	13.89	14.75	0.942	PASS
AA24527-CAL4	13.89	14.75	0.942	PASS
AA24527-CAL5	13.89	14.75	0.942	PASS
AA24527-CAL2	13.89	14.75	0.942	PASS
AA24527-CAL1	13.89	14.75	0.942	PASS
AA24527-CAL3	13.89	14.75	0.942	PASS

1,1-Dichloroethane Minimum RRT: 0.870 RRT Lower Limit: 0.810 RRT Upper Limit: 0.930

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	10	11.48	0.871	PASS
AA24527-CAL2	10	11.48	0.871	PASS
AA24527-CAL1	10	11.48	0.871	PASS
AA24527-CAL4	9.99	11.48	0.870	PASS
AA24527-CAL6	9.99	11.48	0.870	PASS
AA24527-CAL5	9.99	11.48	0.870	PASS

1,1-Dichloroethene Minimum RRT: 0.702 RRT Lower Limit: 0.642 RRT Upper Limit: 0.762

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	8.06	11.48	0.702	PASS
AA24527-CAL6	8.06	11.48	0.702	PASS
AA24527-CAL3	8.06	11.48	0.702	PASS
AA24527-CAL2	8.07	11.48	0.703	PASS
AA24527-CAL1	8.07	11.48	0.703	PASS
AA24527-CAL4	8.06	11.48	0.702	PASS

1,1-Dichloropropene Minimum RRT: 0.980 RRT Lower Limit: 0.920 RRT Upper Limit: 1.040

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	11.26	11.48	0.981	PASS

8260B DOD Extended

AA24527-CAL4	11.25	11.48	0.980	PASS
AA24527-CAL3	11.25	11.48	0.980	PASS
AA24527-CAL5	11.25	11.48	0.980	PASS
AA24527-CAL1	11.25	11.48	0.980	PASS
AA24527-CAL6	11.25	11.48	0.980	PASS

1,2,3-Trichlorobenzene **Minimum RRT: 1.244** **RRT Lower Limit: 1.184** **RRT Upper Limit: 1.304**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	21.32	17.14	1.244	PASS
AA24527-CAL1	21.33	17.15	1.244	PASS
AA24527-CAL2	21.33	17.14	1.244	PASS
AA24527-CAL6	21.32	17.13	1.245	PASS
AA24527-CAL3	21.32	17.14	1.244	PASS
AA24527-CAL5	21.32	17.14	1.244	PASS

1,2,3-Trichloropropane **Minimum RRT: 1.100** **RRT Lower Limit: 1.040** **RRT Upper Limit: 1.160**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	16.23	14.75	1.100	PASS
AA24527-CAL6	16.22	14.75	1.100	PASS
AA24527-CAL1	16.23	14.75	1.100	PASS
AA24527-CAL3	16.23	14.75	1.100	PASS
AA24527-CAL4	16.23	14.75	1.100	PASS
AA24527-CAL5	16.23	14.75	1.100	PASS

1,2,4-Trichlorobenzene **Minimum RRT: 1.174** **RRT Lower Limit: 1.114** **RRT Upper Limit: 1.234**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	20.14	17.14	1.175	PASS
AA24527-CAL6	20.14	17.13	1.176	PASS
AA24527-CAL2	20.15	17.14	1.176	PASS
AA24527-CAL3	20.14	17.14	1.175	PASS
AA24527-CAL1	20.13	17.15	1.174	PASS
AA24527-CAL5	20.14	17.14	1.175	PASS

1,2,4-Trimethylbenzene **Minimum RRT: 0.966** **RRT Lower Limit: 0.906** **RRT Upper Limit: 1.026**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	16.56	17.14	0.966	PASS
AA24527-CAL6	16.56	17.13	0.967	PASS
AA24527-CAL4	16.56	17.14	0.966	PASS
AA24527-CAL1	16.56	17.15	0.966	PASS
AA24527-CAL3	16.56	17.14	0.966	PASS
AA24527-CAL2	16.57	17.14	0.967	PASS

1,2-Dibromo-3-chloropropane **Minimum RRT: 1.103** **RRT Lower Limit: 1.043** **RRT Upper Limit: 1.163**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	18.92	17.14	1.104	PASS
AA24527-CAL1	18.93	17.15	1.104	PASS
AA24527-CAL3	18.91	17.14	1.103	PASS
AA24527-CAL5	18.92	17.14	1.104	PASS
AA24527-CAL6	18.91	17.13	1.104	PASS
AA24527-CAL2	18.91	17.14	1.103	PASS

1,2-Dibromoethane **Minimum RRT: 0.972** **RRT Lower Limit: 0.912** **RRT Upper Limit: 1.032**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	14.34	14.75	0.972	PASS
AA24527-CAL5	14.34	14.75	0.972	PASS
AA24527-CAL1	14.34	14.75	0.972	PASS
AA24527-CAL2	14.34	14.75	0.972	PASS

8260B DOD Extended

AA24527-CAL6	14.34	14.75	0.972	PASS
AA24527-CAL4	14.34	14.75	0.972	PASS

1,2-Dichlorobenzene Minimum RRT: 1.034 RRT Lower Limit: 0.974 RRT Upper Limit: 1.094

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	17.73	17.13	1.035	PASS
AA24527-CAL1	17.74	17.15	1.034	PASS
AA24527-CAL4	17.73	17.14	1.034	PASS
AA24527-CAL3	17.73	17.14	1.034	PASS
AA24527-CAL5	17.73	17.14	1.034	PASS
AA24527-CAL2	17.73	17.14	1.034	PASS

1,2-Dichloroethane Minimum RRT: 0.972 RRT Lower Limit: 0.912 RRT Upper Limit: 1.032

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	11.72	12.06	0.972	PASS
AA24527-CAL1	11.72	12.06	0.972	PASS
AA24527-CAL3	11.72	12.06	0.972	PASS
AA24527-CAL6	11.72	12.06	0.972	PASS
AA24527-CAL5	11.72	12.06	0.972	PASS
AA24527-CAL2	11.72	12.06	0.972	PASS

1,2-Dichloroethane-d4 Minimum RRT: 0.966 RRT Lower Limit: 0.906 RRT Upper Limit: 1.026

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	11.65	12.06	0.966	PASS
AA24527-CAL4	11.65	12.06	0.966	PASS
AA24527-CAL3	11.65	12.06	0.966	PASS
AA24527-CAL2	11.66	12.06	0.967	PASS
AA24527-CAL5	11.65	12.06	0.966	PASS
AA24527-CAL6	11.65	12.06	0.966	PASS

1,2-Dichloropropane Minimum RRT: 1.043 RRT Lower Limit: 0.983 RRT Upper Limit: 1.103

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	12.58	12.06	1.043	PASS
AA24527-CAL5	12.58	12.06	1.043	PASS
AA24527-CAL2	12.59	12.06	1.044	PASS
AA24527-CAL3	12.58	12.06	1.043	PASS
AA24527-CAL4	12.58	12.06	1.043	PASS
AA24527-CAL6	12.59	12.06	1.044	PASS

1,3,5-Trimethylbenzene Minimum RRT: 0.939 RRT Lower Limit: 0.879 RRT Upper Limit: 0.999

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	16.11	17.15	0.939	PASS
AA24527-CAL4	16.11	17.14	0.940	PASS
AA24527-CAL5	16.11	17.14	0.940	PASS
AA24527-CAL6	16.11	17.13	0.940	PASS
AA24527-CAL2	16.11	17.14	0.940	PASS
AA24527-CAL3	16.11	17.14	0.940	PASS

1,3-Dichlorobenzene Minimum RRT: 0.995 RRT Lower Limit: 0.935 RRT Upper Limit: 1.055

AA24527-CAL2	17.07	17.14	0.996	PASS
AA24527-CAL4	17.06	17.14	0.995	PASS
AA24527-CAL6	17.06	17.13	0.996	PASS
AA24527-CAL1	17.07	17.15	0.995	PASS
AA24527-CAL3	17.06	17.14	0.995	PASS
AA24527-CAL5	17.06	17.14	0.995	PASS

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1,3-Dichloropropane Minimum RRT: 0.959 RRT Lower Limit: 0.899 RRT Upper Limit: 1.019

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	14.15	14.75	0.959	PASS
AA24527-CAL2	14.15	14.75	0.959	PASS
AA24527-CAL1	14.15	14.75	0.959	PASS
AA24527-CAL5	14.15	14.75	0.959	PASS
AA24527-CAL6	14.15	14.75	0.959	PASS
AA24527-CAL4	14.15	14.75	0.959	PASS

1,4-Dichlorobenzene Minimum RRT: 1.001 RRT Lower Limit: 0.941 RRT Upper Limit: 1.061

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	17.16	17.15	1.001	PASS
AA24527-CAL5	17.16	17.14	1.001	PASS
AA24527-CAL4	17.16	17.14	1.001	PASS
AA24527-CAL2	17.17	17.14	1.002	PASS
AA24527-CAL6	17.16	17.13	1.002	PASS
AA24527-CAL3	17.16	17.14	1.001	PASS

1,4-Dichlorobenzene-d4 Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	17.13	17.13	1.000	PASS
AA24527-CAL2	17.14	17.14	1.000	PASS
AA24527-CAL3	17.14	17.14	1.000	PASS
AA24527-CAL7	17.14	17.14	1.000	PASS
AA24527-CAL5	17.14	17.14	1.000	PASS
AA24527-CAL1	17.15	17.15	1.000	PASS
AA24527-CAL4	17.14	17.14	1.000	PASS

1,4-Difluorobenzene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	12.06	12.06	1.000	PASS
AA24527-CAL3	12.06	12.06	1.000	PASS
AA24527-CAL1	12.06	12.06	1.000	PASS
AA24527-CAL5	12.06	12.06	1.000	PASS
AA24527-CAL7	12.06	12.06	1.000	PASS
AA24527-CAL2	12.06	12.06	1.000	PASS
AA24527-CAL6	12.06	12.06	1.000	PASS

1,4-Dioxane Minimum RRT: 1.059 RRT Lower Limit: 0.999 RRT Upper Limit: 1.119

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	12.78	12.06	1.060	PASS
AA24527-CAL1	12.78	12.06	1.060	PASS
AA24527-CAL3	12.78	12.06	1.060	PASS
AA24527-CAL2	12.78	12.06	1.060	PASS
AA24527-CAL6	12.78	12.06	1.060	PASS
AA24527-CAL7	12.77	12.06	1.059	PASS
AA24527-CAL4	12.77	12.06	1.059	PASS

2,2-Dichloropropane Minimum RRT: 0.936 RRT Lower Limit: 0.876 RRT Upper Limit: 0.996

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	10.74	11.48	0.936	PASS
AA24527-CAL6	10.74	11.48	0.936	PASS
AA24527-CAL4	10.74	11.48	0.936	PASS
AA24527-CAL5	10.74	11.48	0.936	PASS
AA24527-CAL3	10.75	11.48	0.936	PASS
AA24527-CAL2	10.75	11.48	0.936	PASS

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2-Butanone Minimum RRT: 0.975 RRT Lower Limit: 0.915 RRT Upper Limit: 1.035

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	11.2	11.48	0.976	PASS
AA24527-CAL1	11.21	11.48	0.976	PASS
AA24527-CAL2	11.19	11.48	0.975	PASS
AA24527-CAL4	11.19	11.48	0.975	PASS
AA24527-CAL7	11.2	11.48	0.976	PASS
AA24527-CAL5	11.2	11.48	0.976	PASS
AA24527-CAL3	11.2	11.48	0.976	PASS

2-Chloroethyl Vinyl Ether Minimum RRT: 1.086 RRT Lower Limit: 1.026 RRT Upper Limit: 1.146

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	13.17	12.06	1.092	PASS
AA24527-CAL3	13.17	12.06	1.092	PASS
AA24527-CAL6	13.17	12.06	1.092	PASS
AA24527-CAL2	13.1	12.06	1.086	PASS
AA24527-CAL1	13.15	12.06	1.090	PASS
AA24527-CAL4	13.16	12.06	1.091	PASS

2-Chlorotoluene Minimum RRT: 0.944 RRT Lower Limit: 0.884 RRT Upper Limit: 1.004

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	16.2	17.14	0.945	PASS
AA24527-CAL6	16.2	17.13	0.946	PASS
AA24527-CAL1	16.19	17.15	0.944	PASS
AA24527-CAL5	16.19	17.14	0.945	PASS
AA24527-CAL3	16.19	17.14	0.945	PASS
AA24527-CAL4	16.19	17.14	0.945	PASS

2-Hexanone Minimum RRT: 1.192 RRT Lower Limit: 1.132 RRT Upper Limit: 1.252

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	14.38	12.06	1.192	PASS
AA24527-CAL1	14.38	12.06	1.192	PASS
AA24527-CAL2	14.38	12.06	1.192	PASS
AA24527-CAL5	14.37	12.06	1.192	PASS
AA24527-CAL3	14.38	12.06	1.192	PASS
AA24527-CAL6	14.38	12.06	1.192	PASS
AA24527-CAL7	14.38	12.06	1.192	PASS

3-Chloropropene Minimum RRT: 0.767 RRT Lower Limit: 0.707 RRT Upper Limit: 0.827

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	8.81	11.48	0.767	PASS
AA24527-CAL3	8.8	11.48	0.767	PASS
AA24527-CAL6	8.8	11.48	0.767	PASS
AA24527-CAL2	8.81	11.48	0.767	PASS
AA24527-CAL4	8.8	11.48	0.767	PASS
AA24527-CAL5	8.8	11.48	0.767	PASS
AA24527-CAL7	8.8	11.48	0.767	PASS

4-Bromofluorobenzene Minimum RRT: 1.077 RRT Lower Limit: 1.017 RRT Upper Limit: 1.137

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	15.89	14.75	1.077	PASS
AA24527-CAL3	15.89	14.75	1.077	PASS
AA24527-CAL6	15.89	14.75	1.077	PASS
AA24527-CAL2	15.9	14.75	1.078	PASS
AA24527-CAL1	15.89	14.75	1.077	PASS
AA24527-CAL5	15.89	14.75	1.077	PASS

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4-Chlorotoluene Minimum RRT: 0.954 RRT Lower Limit: 0.894 RRT Upper Limit: 1.014

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	16.37	17.14	0.955	PASS
AA24527-CAL6	16.37	17.13	0.956	PASS
AA24527-CAL3	16.37	17.14	0.955	PASS
AA24527-CAL5	16.37	17.14	0.955	PASS
AA24527-CAL4	16.36	17.14	0.954	PASS
AA24527-CAL1	16.37	17.15	0.955	PASS

4-isopropyltoluene Minimum RRT: 0.981 RRT Lower Limit: 0.921 RRT Upper Limit: 1.041

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	16.81	17.14	0.981	PASS
AA24527-CAL2	16.81	17.14	0.981	PASS
AA24527-CAL6	16.81	17.13	0.981	PASS
AA24527-CAL5	16.81	17.14	0.981	PASS
AA24527-CAL4	16.81	17.14	0.981	PASS
AA24527-CAL1	16.82	17.15	0.981	PASS

4-Methyl-2-pentanone Minimum RRT: 1.133 RRT Lower Limit: 1.073 RRT Upper Limit: 1.193

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	13.66	12.06	1.133	PASS
AA24527-CAL7	13.67	12.06	1.133	PASS
AA24527-CAL5	13.66	12.06	1.133	PASS
AA24527-CAL3	13.67	12.06	1.133	PASS
AA24527-CAL1	13.67	12.06	1.133	PASS
AA24527-CAL6	13.67	12.06	1.133	PASS
AA24527-CAL2	13.67	12.06	1.133	PASS

Acetone Minimum RRT: 0.787 RRT Lower Limit: 0.727 RRT Upper Limit: 0.847

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	9.03	11.48	0.787	PASS
AA24527-CAL2	9.04	11.48	0.787	PASS
AA24527-CAL3	9.04	11.48	0.787	PASS
AA24527-CAL7	9.04	11.48	0.787	PASS
AA24527-CAL1	9.05	11.48	0.788	PASS
AA24527-CAL6	9.04	11.48	0.787	PASS
AA24527-CAL5	9.04	11.48	0.787	PASS

Acetonitrile Minimum RRT: 0.844 RRT Lower Limit: 0.784 RRT Upper Limit: 0.904

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	9.69	11.48	0.844	PASS
AA24527-CAL6	9.7	11.48	0.845	PASS
AA24527-CAL7	9.69	11.48	0.844	PASS
AA24527-CAL3	9.69	11.48	0.844	PASS
AA24527-CAL5	9.69	11.48	0.844	PASS
AA24527-CAL4	9.69	11.48	0.844	PASS
AA24527-CAL1	9.72	11.48	0.847	PASS

Acrolein Minimum RRT: 0.750 RRT Lower Limit: 0.690 RRT Upper Limit: 0.810

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	8.61	11.48	0.750	PASS
AA24527-CAL3	8.61	11.48	0.750	PASS
AA24527-CAL4	8.61	11.48	0.750	PASS
AA24527-CAL6	8.61	11.48	0.750	PASS
AA24527-CAL1	8.61	11.48	0.750	PASS
AA24527-CAL2	8.61	11.48	0.750	PASS

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Acrylonitrile Minimum RRT: 0.876 RRT Lower Limit: 0.816 RRT Upper Limit: 0.936

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	10.06	11.48	0.876	PASS
AA24527-CAL5	10.07	11.48	0.877	PASS
AA24527-CAL6	10.07	11.48	0.877	PASS
AA24527-CAL3	10.07	11.48	0.877	PASS
AA24527-CAL1	10.08	11.48	0.878	PASS
AA24527-CAL2	10.07	11.48	0.877	PASS

Benzene Minimum RRT: 0.955 RRT Lower Limit: 0.895 RRT Upper Limit: 1.015

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	11.52	12.06	0.955	PASS
AA24527-CAL4	11.52	12.06	0.955	PASS
AA24527-CAL5	11.52	12.06	0.955	PASS
AA24527-CAL1	11.52	12.06	0.955	PASS
AA24527-CAL6	11.52	12.06	0.955	PASS
AA24527-CAL2	11.52	12.06	0.955	PASS

Bromobenzene Minimum RRT: 0.936 RRT Lower Limit: 0.876 RRT Upper Limit: 0.996

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	16.06	17.15	0.936	PASS
AA24527-CAL5	16.05	17.14	0.936	PASS
AA24527-CAL3	16.05	17.14	0.936	PASS
AA24527-CAL2	16.05	17.14	0.936	PASS
AA24527-CAL4	16.05	17.14	0.936	PASS
AA24527-CAL6	16.05	17.13	0.937	PASS

Bromochloromethane Minimum RRT: 0.944 RRT Lower Limit: 0.884 RRT Upper Limit: 1.004

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	10.85	11.48	0.945	PASS
AA24527-CAL4	10.85	11.48	0.945	PASS
AA24527-CAL3	10.84	11.48	0.944	PASS
AA24527-CAL6	10.84	11.48	0.944	PASS
AA24527-CAL5	10.84	11.48	0.944	PASS
AA24527-CAL2	10.85	11.48	0.945	PASS

Bromodichloromethane Minimum RRT: 1.045 RRT Lower Limit: 0.985 RRT Upper Limit: 1.105

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	12.6	12.06	1.045	PASS
AA24527-CAL3	12.6	12.06	1.045	PASS
AA24527-CAL2	12.6	12.06	1.045	PASS
AA24527-CAL4	12.6	12.06	1.045	PASS
AA24527-CAL1	12.61	12.06	1.046	PASS
AA24527-CAL6	12.61	12.06	1.046	PASS

Bromoform Minimum RRT: 1.045 RRT Lower Limit: 0.985 RRT Upper Limit: 1.105

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	15.43	14.75	1.046	PASS
AA24527-CAL1	15.42	14.75	1.045	PASS
AA24527-CAL5	15.42	14.75	1.045	PASS
AA24527-CAL4	15.42	14.75	1.045	PASS
AA24527-CAL6	15.43	14.75	1.046	PASS
AA24527-CAL2	15.43	14.75	1.046	PASS

Bromomethane Minimum RRT: 0.571 RRT Lower Limit: 0.511 RRT Upper Limit: 0.631

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	6.57	11.48	0.572	PASS

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AA24527-CAL1	6.58	11.48	0.573	PASS
AA24527-CAL2	6.57	11.48	0.572	PASS
AA24527-CAL5	6.57	11.48	0.572	PASS
AA24527-CAL3	6.56	11.48	0.571	PASS
AA24527-CAL4	6.57	11.48	0.572	PASS

Carbon disulfide **Minimum RRT: 0.710** **RRT Lower Limit: 0.650** **RRT Upper Limit: 0.770**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	8.16	11.48	0.711	PASS
AA24527-CAL1	8.16	11.48	0.711	PASS
AA24527-CAL7	8.15	11.48	0.710	PASS
AA24527-CAL5	8.15	11.48	0.710	PASS
AA24527-CAL4	8.15	11.48	0.710	PASS
AA24527-CAL6	8.15	11.48	0.710	PASS
AA24527-CAL3	8.15	11.48	0.710	PASS

Carbon Tetrachloride **Minimum RRT: 0.918** **RRT Lower Limit: 0.858** **RRT Upper Limit: 0.978**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	11.07	12.06	0.918	PASS
AA24527-CAL6	11.07	12.06	0.918	PASS
AA24527-CAL3	11.07	12.06	0.918	PASS
AA24527-CAL1	11.07	12.06	0.918	PASS
AA24527-CAL4	11.07	12.06	0.918	PASS
AA24527-CAL2	11.07	12.06	0.918	PASS

Chlorobenzene **Minimum RRT: 1.001** **RRT Lower Limit: 0.941** **RRT Upper Limit: 1.061**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	14.77	14.75	1.001	PASS
AA24527-CAL6	14.77	14.75	1.001	PASS
AA24527-CAL3	14.77	14.75	1.001	PASS
AA24527-CAL1	14.77	14.75	1.001	PASS
AA24527-CAL4	14.76	14.75	1.001	PASS
AA24527-CAL2	14.77	14.75	1.001	PASS

Chlorobenzene-d5 **Minimum RRT: 1.000** **RRT Lower Limit: 0.940** **RRT Upper Limit: 1.060**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	14.75	14.75	1.000	PASS
AA24527-CAL1	14.75	14.75	1.000	PASS
AA24527-CAL3	14.75	14.75	1.000	PASS
AA24527-CAL5	14.75	14.75	1.000	PASS
AA24527-CAL6	14.75	14.75	1.000	PASS
AA24527-CAL2	14.75	14.75	1.000	PASS
AA24527-CAL7	14.75	14.75	1.000	PASS

Chloroethane **Minimum RRT: 0.593** **RRT Lower Limit: 0.533** **RRT Upper Limit: 0.653**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	6.86	11.48	0.598	PASS
AA24527-CAL5	6.83	11.48	0.595	PASS
AA24527-CAL2	6.86	11.48	0.598	PASS
AA24527-CAL6	6.81	11.48	0.593	PASS
AA24527-CAL3	6.84	11.48	0.596	PASS
AA24527-CAL4	6.83	11.48	0.595	PASS

Chloroform **Minimum RRT: 0.948** **RRT Lower Limit: 0.888** **RRT Upper Limit: 1.008**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	10.88	11.48	0.948	PASS
AA24527-CAL4	10.88	11.48	0.948	PASS

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AA24527-CAL3	10.88	11.48	0.948	PASS
AA24527-CAL2	10.88	11.48	0.948	PASS
AA24527-CAL1	10.89	11.48	0.949	PASS
AA24527-CAL5	10.88	11.48	0.948	PASS

Chloromethane Minimum RRT: 0.482 RRT Lower Limit: 0.422 RRT Upper Limit: 0.542

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	5.53	11.48	0.482	PASS
AA24527-CAL2	5.53	11.48	0.482	PASS
AA24527-CAL4	5.53	11.48	0.482	PASS
AA24527-CAL6	5.53	11.48	0.482	PASS
AA24527-CAL5	5.53	11.48	0.482	PASS
AA24527-CAL3	5.53	11.48	0.482	PASS

Chloroprene Minimum RRT: 0.867 RRT Lower Limit: 0.807 RRT Upper Limit: 0.927

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	9.95	11.48	0.867	PASS
AA24527-CAL4	9.95	11.48	0.867	PASS
AA24527-CAL6	9.95	11.48	0.867	PASS
AA24527-CAL2	9.96	11.48	0.868	PASS
AA24527-CAL5	9.95	11.48	0.867	PASS
AA24527-CAL7	9.95	11.48	0.867	PASS
AA24527-CAL1	9.96	11.48	0.868	PASS

cis-1,2-Dichloroethene Minimum RRT: 0.924 RRT Lower Limit: 0.864 RRT Upper Limit: 0.984

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	10.61	11.48	0.924	PASS
AA24527-CAL5	10.61	11.48	0.924	PASS
AA24527-CAL6	10.61	11.48	0.924	PASS
AA24527-CAL1	10.62	11.48	0.925	PASS
AA24527-CAL2	10.62	11.48	0.925	PASS
AA24527-CAL4	10.61	11.48	0.924	PASS

cis-1,3-Dichloropropene Minimum RRT: 1.092 RRT Lower Limit: 1.032 RRT Upper Limit: 1.152

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	13.17	12.06	1.092	PASS
AA24527-CAL2	13.18	12.06	1.093	PASS
AA24527-CAL1	13.18	12.06	1.093	PASS
AA24527-CAL4	13.17	12.06	1.092	PASS
AA24527-CAL5	13.17	12.06	1.092	PASS
AA24527-CAL3	13.17	12.06	1.092	PASS

Cyclohexane Minimum RRT: 0.945 RRT Lower Limit: 0.885 RRT Upper Limit: 1.005

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	10.86	11.48	0.946	PASS
AA24527-CAL1	10.86	11.48	0.946	PASS
AA24527-CAL6	10.86	11.48	0.946	PASS
AA24527-CAL5	10.85	11.48	0.945	PASS
AA24527-CAL2	10.86	11.48	0.946	PASS
AA24527-CAL4	10.85	11.48	0.945	PASS

Dibromochloromethane Minimum RRT: 0.954 RRT Lower Limit: 0.894 RRT Upper Limit: 1.014

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	14.08	14.75	0.955	PASS
AA24527-CAL1	14.07	14.75	0.954	PASS
AA24527-CAL3	14.07	14.75	0.954	PASS
AA24527-CAL4	14.07	14.75	0.954	PASS

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AA24527-CAL6	14.08	14.75	0.955	PASS
AA24527-CAL2	14.08	14.75	0.955	PASS

Dibromofluoromethane Minimum RRT: 0.965 RRT Lower Limit: 0.905 RRT Upper Limit: 1.025

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	11.08	11.48	0.965	PASS
AA24527-CAL6	11.08	11.48	0.965	PASS
AA24527-CAL3	11.08	11.48	0.965	PASS
AA24527-CAL1	11.09	11.48	0.966	PASS
AA24527-CAL2	11.09	11.48	0.966	PASS
AA24527-CAL5	11.08	11.48	0.965	PASS

Dibromomethane Minimum RRT: 1.036 RRT Lower Limit: 0.976 RRT Upper Limit: 1.096

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	12.51	12.06	1.037	PASS
AA24527-CAL1	12.51	12.06	1.037	PASS
AA24527-CAL6	12.5	12.06	1.036	PASS
AA24527-CAL4	12.5	12.06	1.036	PASS
AA24527-CAL5	12.5	12.06	1.036	PASS
AA24527-CAL3	12.5	12.06	1.036	PASS

Dichlorodifluoromethane Minimum RRT: 0.433 RRT Lower Limit: 0.373 RRT Upper Limit: 0.493

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	4.98	11.48	0.434	PASS
AA24527-CAL4	4.98	11.48	0.434	PASS
AA24527-CAL2	4.98	11.48	0.434	PASS
AA24527-CAL5	4.97	11.48	0.433	PASS
AA24527-CAL1	4.98	11.48	0.434	PASS
AA24527-CAL6	4.97	11.48	0.433	PASS

Diethyl ether Minimum RRT: 0.670 RRT Lower Limit: 0.610 RRT Upper Limit: 0.730

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	7.7	11.48	0.671	PASS
AA24527-CAL1	7.71	11.48	0.672	PASS
AA24527-CAL2	7.7	11.48	0.671	PASS
AA24527-CAL4	7.7	11.48	0.671	PASS
AA24527-CAL3	7.69	11.48	0.670	PASS
AA24527-CAL5	7.69	11.48	0.670	PASS

Ethyl Methacrylate Minimum RRT: 0.933 RRT Lower Limit: 0.873 RRT Upper Limit: 0.993

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	13.76	14.75	0.933	PASS
AA24527-CAL2	13.77	14.75	0.934	PASS
AA24527-CAL6	13.76	14.75	0.933	PASS
AA24527-CAL3	13.76	14.75	0.933	PASS
AA24527-CAL7	13.76	14.75	0.933	PASS
AA24527-CAL1	13.77	14.75	0.934	PASS
AA24527-CAL5	13.76	14.75	0.933	PASS

Ethylbenzene Minimum RRT: 0.999 RRT Lower Limit: 0.939 RRT Upper Limit: 1.059

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	14.73	14.75	0.999	PASS
AA24527-CAL2	14.74	14.75	0.999	PASS
AA24527-CAL1	14.74	14.75	0.999	PASS
AA24527-CAL5	14.73	14.75	0.999	PASS
AA24527-CAL4	14.73	14.75	0.999	PASS
AA24527-CAL3	14.73	14.75	0.999	PASS

DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

8260B DOD Extended

Freon 113 Minimum RRT: 0.705 RRT Lower Limit: 0.645 RRT Upper Limit: 0.765

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	8.1	11.48	0.706	PASS
AA24527-CAL6	8.09	11.48	0.705	PASS
AA24527-CAL1	8.11	11.48	0.706	PASS
AA24527-CAL4	8.1	11.48	0.706	PASS
AA24527-CAL3	8.1	11.48	0.706	PASS
AA24527-CAL2	8.11	11.48	0.706	PASS

Hexachlorobutadiene Minimum RRT: 1.164 RRT Lower Limit: 1.104 RRT Upper Limit: 1.224

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	19.95	17.14	1.164	PASS
AA24527-CAL6	19.96	17.13	1.165	PASS
AA24527-CAL5	19.96	17.14	1.165	PASS
AA24527-CAL2	19.96	17.14	1.165	PASS
AA24527-CAL4	19.96	17.14	1.165	PASS
AA24527-CAL1	19.96	17.15	1.164	PASS

Iodomethane Minimum RRT: 0.726 RRT Lower Limit: 0.666 RRT Upper Limit: 0.786

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	8.35	11.48	0.727	PASS
AA24527-CAL6	8.33	11.48	0.726	PASS
AA24527-CAL1	8.34	11.48	0.726	PASS
AA24527-CAL3	8.33	11.48	0.726	PASS
AA24527-CAL7	8.33	11.48	0.726	PASS
AA24527-CAL5	8.33	11.48	0.726	PASS
AA24527-CAL4	8.33	11.48	0.726	PASS

Isobutyl alcohol Minimum RRT: 0.960 RRT Lower Limit: 0.900 RRT Upper Limit: 1.020

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	11.58	12.06	0.960	PASS
AA24527-CAL5	11.58	12.06	0.960	PASS
AA24527-CAL2	11.59	12.06	0.961	PASS
AA24527-CAL3	11.58	12.06	0.960	PASS
AA24527-CAL6	11.58	12.06	0.960	PASS
AA24527-CAL1	11.59	12.06	0.961	PASS

Isopropyl Ether Minimum RRT: 0.849 RRT Lower Limit: 0.789 RRT Upper Limit: 0.909

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	9.75	11.48	0.849	PASS
AA24527-CAL5	9.75	11.48	0.849	PASS
AA24527-CAL2	9.76	11.48	0.850	PASS
AA24527-CAL6	9.75	11.48	0.849	PASS
AA24527-CAL1	9.75	11.48	0.849	PASS
AA24527-CAL4	9.75	11.48	0.849	PASS

Isopropylbenzene Minimum RRT: 1.054 RRT Lower Limit: 0.994 RRT Upper Limit: 1.114

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	15.54	14.75	1.054	PASS
AA24527-CAL6	15.54	14.75	1.054	PASS
AA24527-CAL3	15.54	14.75	1.054	PASS
AA24527-CAL5	15.54	14.75	1.054	PASS
AA24527-CAL4	15.54	14.75	1.054	PASS
AA24527-CAL2	15.55	14.75	1.054	PASS

DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

8260B DOD Extended

m,p-Xylenes Minimum RRT: 1.006 RRT Lower Limit: 0.946 RRT Upper Limit: 1.066

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	14.84	14.75	1.006	PASS
AA24527-CAL2	14.85	14.75	1.007	PASS
AA24527-CAL3	14.84	14.75	1.006	PASS
AA24527-CAL1	14.85	14.75	1.007	PASS
AA24527-CAL6	14.85	14.75	1.007	PASS
AA24527-CAL5	14.85	14.75	1.007	PASS

Methacrylonitrile Minimum RRT: 1.006 RRT Lower Limit: 0.946 RRT Upper Limit: 1.066

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	11.55	11.48	1.006	PASS
AA24527-CAL6	11.56	11.48	1.007	PASS
AA24527-CAL4	11.55	11.48	1.006	PASS
AA24527-CAL7	11.56	11.48	1.007	PASS
AA24527-CAL5	11.55	11.48	1.006	PASS
AA24527-CAL1	11.55	11.48	1.006	PASS
AA24527-CAL2	11.55	11.48	1.006	PASS

Methyl acetate Minimum RRT: 0.799 RRT Lower Limit: 0.739 RRT Upper Limit: 0.859

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	9.18	11.48	0.800	PASS
AA24527-CAL4	9.17	11.48	0.799	PASS
AA24527-CAL2	9.18	11.48	0.800	PASS
AA24527-CAL1	9.19	11.48	0.801	PASS
AA24527-CAL3	9.17	11.48	0.799	PASS
AA24527-CAL5	9.17	11.48	0.799	PASS

Methyl cyclohexane Minimum RRT: 1.001 RRT Lower Limit: 0.941 RRT Upper Limit: 1.061

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	12.08	12.06	1.002	PASS
AA24527-CAL3	12.08	12.06	1.002	PASS
AA24527-CAL4	12.07	12.06	1.001	PASS
AA24527-CAL2	12.07	12.06	1.001	PASS
AA24527-CAL1	12.09	12.06	1.002	PASS
AA24527-CAL6	12.08	12.06	1.002	PASS

Methyl Methacrylate Minimum RRT: 1.049 RRT Lower Limit: 0.989 RRT Upper Limit: 1.109

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	12.66	12.06	1.050	PASS
AA24527-CAL1	12.65	12.06	1.049	PASS
AA24527-CAL5	12.65	12.06	1.049	PASS
AA24527-CAL3	12.66	12.06	1.050	PASS
AA24527-CAL7	12.65	12.06	1.049	PASS
AA24527-CAL6	12.66	12.06	1.050	PASS
AA24527-CAL4	12.65	12.06	1.049	PASS

Methylene Chloride Minimum RRT: 0.780 RRT Lower Limit: 0.720 RRT Upper Limit: 0.840

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	8.97	11.48	0.781	PASS
AA24527-CAL6	8.96	11.48	0.780	PASS
AA24527-CAL5	8.97	11.48	0.781	PASS
AA24527-CAL4	8.97	11.48	0.781	PASS
AA24527-CAL2	8.97	11.48	0.781	PASS
AA24527-CAL3	8.97	11.48	0.781	PASS

DOD Retention Time Report for Gas Chromatography/Mass Spectrophotometer

8260B DOD Extended

Methyl-tert-Butyl Ether Minimum RRT: 0.810 RRT Lower Limit: 0.750 RRT Upper Limit: 0.870

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	9.3	11.48	0.810	PASS
AA24527-CAL1	9.32	11.48	0.812	PASS
AA24527-CAL4	9.31	11.48	0.811	PASS
AA24527-CAL2	9.31	11.48	0.811	PASS
AA24527-CAL3	9.3	11.48	0.810	PASS
AA24527-CAL6	9.31	11.48	0.811	PASS

Naphthalene Minimum RRT: 1.218 RRT Lower Limit: 1.158 RRT Upper Limit: 1.278

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	20.89	17.14	1.219	PASS
AA24527-CAL3	20.89	17.14	1.219	PASS
AA24527-CAL6	20.88	17.13	1.219	PASS
AA24527-CAL2	20.89	17.14	1.219	PASS
AA24527-CAL4	20.88	17.14	1.218	PASS
AA24527-CAL1	20.92	17.15	1.220	PASS

n-Butyl Benzene Minimum RRT: 1.011 RRT Lower Limit: 0.951 RRT Upper Limit: 1.071

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	17.34	17.14	1.012	PASS
AA24527-CAL1	17.34	17.15	1.011	PASS
AA24527-CAL3	17.34	17.14	1.012	PASS
AA24527-CAL2	17.34	17.14	1.012	PASS
AA24527-CAL6	17.34	17.13	1.012	PASS
AA24527-CAL5	17.34	17.14	1.012	PASS

n-Propyl Benzene Minimum RRT: 1.081 RRT Lower Limit: 1.021 RRT Upper Limit: 1.141

Analyte	RT	ISTD RT	RRT	
AA24527-CAL2	15.96	14.75	1.082	PASS
AA24527-CAL5	15.95	14.75	1.081	PASS
AA24527-CAL6	15.96	14.75	1.082	PASS
AA24527-CAL3	15.95	14.75	1.081	PASS
AA24527-CAL1	15.95	14.75	1.081	PASS
AA24527-CAL4	15.95	14.75	1.081	PASS

o-Xylene Minimum RRT: 1.035 RRT Lower Limit: 0.975 RRT Upper Limit: 1.095

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	15.27	14.75	1.035	PASS
AA24527-CAL2	15.27	14.75	1.035	PASS
AA24527-CAL5	15.26	14.75	1.035	PASS
AA24527-CAL3	15.27	14.75	1.035	PASS
AA24527-CAL6	15.27	14.75	1.035	PASS
AA24527-CAL1	15.27	14.75	1.035	PASS

Pentafluorobenzene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	11.48	11.48	1.000	PASS
AA24527-CAL7	11.48	11.48	1.000	PASS
AA24527-CAL6	11.48	11.48	1.000	PASS
AA24527-CAL2	11.48	11.48	1.000	PASS
AA24527-CAL5	11.48	11.48	1.000	PASS
AA24527-CAL1	11.48	11.48	1.000	PASS
AA24527-CAL3	11.48	11.48	1.000	PASS

Propionitrile Minimum RRT: 1.004 RRT Lower Limit: 0.944 RRT Upper Limit: 1.064

Analyte	RT	ISTD RT	RRT	

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AA24527-CAL2	11.54	11.48	1.005	PASS
AA24527-CAL7	11.54	11.48	1.005	PASS
AA24527-CAL5	11.54	11.48	1.005	PASS
AA24527-CAL4	11.53	11.48	1.004	PASS
AA24527-CAL3	11.54	11.48	1.005	PASS
AA24527-CAL6	11.54	11.48	1.005	PASS
AA24527-CAL1	11.54	11.48	1.005	PASS

sec-Butylbenzene **Minimum RRT: 0.973** **RRT Lower Limit: 0.913** **RRT Upper Limit: 1.033**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	16.69	17.15	0.973	PASS
AA24527-CAL3	16.69	17.14	0.974	PASS
AA24527-CAL6	16.69	17.13	0.974	PASS
AA24527-CAL4	16.69	17.14	0.974	PASS
AA24527-CAL5	16.69	17.14	0.974	PASS
AA24527-CAL2	16.69	17.14	0.974	PASS

Styrene **Minimum RRT: 1.038** **RRT Lower Limit: 0.978** **RRT Upper Limit: 1.098**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL1	15.32	14.75	1.039	PASS
AA24527-CAL6	15.31	14.75	1.038	PASS
AA24527-CAL5	15.31	14.75	1.038	PASS
AA24527-CAL2	15.32	14.75	1.039	PASS
AA24527-CAL3	15.31	14.75	1.038	PASS
AA24527-CAL4	15.31	14.75	1.038	PASS

tert-Butylbenzene **Minimum RRT: 0.962** **RRT Lower Limit: 0.902** **RRT Upper Limit: 1.022**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	16.5	17.13	0.963	PASS
AA24527-CAL3	16.49	17.14	0.962	PASS
AA24527-CAL2	16.5	17.14	0.963	PASS
AA24527-CAL1	16.5	17.15	0.962	PASS
AA24527-CAL5	16.5	17.14	0.963	PASS
AA24527-CAL4	16.5	17.14	0.963	PASS

Tetrachloroethene **Minimum RRT: 0.932** **RRT Lower Limit: 0.872** **RRT Upper Limit: 0.992**

AA24527-CAL6	13.74	14.75	0.932	PASS
AA24527-CAL2	13.75	14.75	0.932	PASS
AA24527-CAL3	13.75	14.75	0.932	PASS
AA24527-CAL5	13.75	14.75	0.932	PASS
AA24527-CAL4	13.75	14.75	0.932	PASS
AA24527-CAL1	13.75	14.75	0.932	PASS

Toluene **Minimum RRT: 0.907** **RRT Lower Limit: 0.847** **RRT Upper Limit: 0.967**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	13.39	14.75	0.908	PASS
AA24527-CAL3	13.39	14.75	0.908	PASS
AA24527-CAL1	13.39	14.75	0.908	PASS
AA24527-CAL6	13.38	14.75	0.907	PASS
AA24527-CAL2	13.39	14.75	0.908	PASS
AA24527-CAL5	13.39	14.75	0.908	PASS

Toluene-d8 **Minimum RRT: 1.106** **RRT Lower Limit: 1.046** **RRT Upper Limit: 1.166**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL6	13.34	12.06	1.106	PASS
AA24527-CAL1	13.35	12.06	1.107	PASS

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AA24527-CAL5	13.34	12.06	1.106	PASS
AA24527-CAL3	13.34	12.06	1.106	PASS
AA24527-CAL2	13.35	12.06	1.107	PASS
AA24527-CAL4	13.34	12.06	1.106	PASS

trans-1,2-Dichloroethene Minimum RRT: 0.800 RRT Lower Limit: 0.740 RRT Upper Limit: 0.860

Analyte	RT	ISTD RT	RRT	
AA24527-CAL3	9.19	11.48	0.801	PASS
AA24527-CAL1	9.2	11.48	0.801	PASS
AA24527-CAL2	9.19	11.48	0.801	PASS
AA24527-CAL4	9.19	11.48	0.801	PASS
AA24527-CAL5	9.18	11.48	0.800	PASS
AA24527-CAL6	9.19	11.48	0.801	PASS

trans-1,3-Dichloropropene Minimum RRT: 0.930 RRT Lower Limit: 0.870 RRT Upper Limit: 0.990

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	13.73	14.75	0.931	PASS
AA24527-CAL4	13.73	14.75	0.931	PASS
AA24527-CAL3	13.73	14.75	0.931	PASS
AA24527-CAL6	13.72	14.75	0.930	PASS
AA24527-CAL2	13.73	14.75	0.931	PASS
AA24527-CAL1	13.73	14.75	0.931	PASS

trans-1,4-Dichloro-2-butene Minimum RRT: 1.099 RRT Lower Limit: 1.039 RRT Upper Limit: 1.159

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	16.21	14.75	1.099	PASS
AA24527-CAL1	16.21	14.75	1.099	PASS
AA24527-CAL4	16.21	14.75	1.099	PASS
AA24527-CAL2	16.21	14.75	1.099	PASS
AA24527-CAL7	16.21	14.75	1.099	PASS
AA24527-CAL6	16.21	14.75	1.099	PASS
AA24527-CAL3	16.21	14.75	1.099	PASS

Trichloroethene Minimum RRT: 1.000 RRT Lower Limit: 0.940 RRT Upper Limit: 1.060

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	12.07	12.06	1.001	PASS
AA24527-CAL5	12.07	12.06	1.001	PASS
AA24527-CAL3	12.07	12.06	1.001	PASS
AA24527-CAL1	12.07	12.06	1.001	PASS
AA24527-CAL2	12.07	12.06	1.001	PASS
AA24527-CAL6	12.06	12.06	1.000	PASS

Trichlorofluoromethane Minimum RRT: 0.618 RRT Lower Limit: 0.558 RRT Upper Limit: 0.678

Analyte	RT	ISTD RT	RRT	
AA24527-CAL5	7.12	11.48	0.620	PASS
AA24527-CAL4	7.12	11.48	0.620	PASS
AA24527-CAL1	7.14	11.48	0.622	PASS
AA24527-CAL3	7.13	11.48	0.621	PASS
AA24527-CAL6	7.09	11.48	0.618	PASS
AA24527-CAL2	7.14	11.48	0.622	PASS

Vinyl acetate Minimum RRT: 0.890 RRT Lower Limit: 0.830 RRT Upper Limit: 0.950

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	10.22	11.48	0.890	PASS
AA24527-CAL5	10.22	11.48	0.890	PASS
AA24527-CAL2	10.22	11.48	0.890	PASS
AA24527-CAL3	10.22	11.48	0.890	PASS

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AA24527-CAL6	10.22	11.48	0.890	**PASS**
AA24527-CAL1	10.22	11.48	0.890	**PASS**

Vinyl chloride **Minimum RRT: 0.503** **RRT Lower Limit: 0.443** **RRT Upper Limit: 0.563**

Analyte	RT	ISTD RT	RRT	
AA24527-CAL4	5.77	11.48	0.503	**PASS**
AA24527-CAL6	5.77	11.48	0.503	**PASS**
AA24527-CAL3	5.77	11.48	0.503	**PASS**
AA24527-CAL1	5.77	11.48	0.503	**PASS**
AA24527-CAL2	5.77	11.48	0.503	**PASS**
AA24527-CAL5	5.77	11.48	0.503	**PASS**

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\061313\3FH001.D
Tune Time : 13 Jun 2013 9:36

Daily Calibration File : C:\HPCHEM\1\DATA\061313\3FH007.D

						1787640	2856130	2602100
						1180730		

File	Sample	Surrogate Recovery %				Internal Standard Responses		
3FH002.D	aa24527-	87	83	88	77	1352258	2368139	1954761
				812529				
3FH003.D	aa24527-	3*	3*	2*	2*	1384906	2358800	1909801
				838131				
3FH004.D	aa24527-	11*	12*	9*	8*	1406529	2373296	2134018
				953441				
3FH005.D	aa24527-	50*	36*	46	38*	1551749	2551441	2362747
				1137228				
3FH006.D	aa24527-	91	62	86	73	1702809	2884700	2552443
				1233250				
3FH007.D	aa24527-	238*	181*	243*	204*	1787640	2856125	2602095
				1180728				
3FH008.D	aa24527-	449*	336*	389*	396*	1882302	3044894	2788423
				1289557				
3FH009.D	aa24527-	0*	0*	0*	0*	1991980	3349527	2817277
				1181833				
3FH012.D	aa24527-	3*	3*	2*	3*	1326277	2279610	1859081
				834015				
3FH013.D	aa24527-	11*	10*	10*	10*	1416061	2359540	2059069
				950749				
3FH014.D	aa24527-	83	83	87	90	1596955	2715736	2603388
				1241916				
3FH015.D	aa24527-	81	86	87	83	1753593	2941794	2694898
				1295633				

t - fails 12hr time check * - fails criteria

Created: Fri Jun 14 10:16:20 2013 OVGCMS3

KT 061413

ENCO Orlando

SDG: A303499-CTO0020

CLASS: 07_SVOA_MS

METHOD: EPA 8270D

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Client Sample Id:	Lab Sample Id:
TR-2ND-SB07-0.5-01-0613	A303499-06
TR-2ND-SB07-04-06-0613	A303499-07
TR-2ND-SB07-04-06-0613	A303499-07RE1
TR-2ND-SB07-GW-0613	A303499-08
TR-2ND-SB06-0.5-01-0613	A303499-09
TR-2ND-SB06-05-07-0613	A303499-10
TR-2ND-SB06D-0.5-01-0613	A303499-11
TR-2ND-SB06D-05-07-0613	A303499-12
TR-2ND-SB06-GW-0613	A303499-13
TR-2ND-SB04-0.5-01-0613	A303499-14
TR-2ND-SB04-0.5-01-0613	A303499-14RE1
TR-2ND-SB04-04-06-0613	A303499-15
TR-2ND-SB04-GW-0613	A303499-16
TR-2ND-SB05-0.5-01-0613	A303499-17
TR-2ND-SB05-0.5-01-0613	A303499-17RE1
TR-2ND-SB05-03-05-0613	A303499-18
TR-2ND-SB03-0.5-01-0613	A303499-19
TR-2ND-SB03-04-06-0613	A303499-20
TR-2ND-SB02-0.5-1-0613	A303499-21
TR-2ND-SB02-06-08-0613	A303499-22

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	1ga023.D
Sampled:	06/19/13 10:20	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 20:57
Solids:	84.46	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24827 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<120	U	120	120	390
108-95-2	Phenol	1	<120	U	90	120	390
111-44-4	Bis(2-chloroethyl)ether	1	<120	U	110	120	390
95-57-8	2-Chlorophenol	1	<120	U	97	120	390
95-48-7	2-Methylphenol	1	<120	U	83	120	390
108-60-1	Bis(2-chloroisopropyl)ether	1	<120	U	97	120	390
98-86-2	Acetophenone	1	<120	U	98	120	390
108-39-4/106-44-5	3 & 4-Methylphenol	1	<240	U	190	240	390
621-64-7	N-Nitroso-di-n-propylamine	1	<120	U	110	120	390
67-72-1	Hexachloroethane	1	<120	U	88	120	390
98-95-3	Nitrobenzene	1	<120	U	94	120	390
78-59-1	Isophorone	1	<120	U	85	120	390
88-75-5	2-Nitrophenol	1	<120	U	92	120	390
105-67-9	2,4-Dimethylphenol	1	<120	U	88	120	390
111-91-1	Bis(2-chloroethoxy)methane	1	<120	U	76	120	390
120-83-2	2,4-Dichlorophenol	1	<120	U	84	120	390
106-47-8	4-Chloroaniline	1	<120	U	110	120	390
87-68-3	Hexachlorobutadiene	1	<120	U	95	120	390
105-60-2	Caprolactam	1	<240	U	120	240	390
59-50-7	4-Chloro-3-methylphenol	1	<120	U	79	120	390
77-47-4	Hexachlorocyclopentadiene	1	<120	U	110	120	390
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<120	UQ	82	120	390
88-06-2	2,4,6-Trichlorophenol	1	<120	U	71	120	390
95-95-4	2,4,5-Trichlorophenol	1	<120	U	69	120	390
92-52-4	1,1'-Biphenyl	1	<120	U	110	120	390
91-58-7	2-Chloronaphthalene	1	<120	U	77	120	390
88-74-4	2-Nitroaniline	1	<120	U	79	120	390
131-11-3	Dimethylphthalate	1	<120	U	73	120	390
606-20-2	2,6-Dinitrotoluene	1	<120	U	82	120	390
99-09-2	3-Nitroaniline	1	<120	U	88	120	390
51-28-5	2,4-Dinitrophenol	1	<360	U	140	360	390
100-02-7	4-Nitrophenol	1	<120	U	97	120	390
132-64-9	Dibenzofuran	1	<120	U	78	120	390

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	1ga023.D
Sampled:	06/19/13 10:20	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 20:57
Solids:	84.46	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24827 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<120	U	85	120	390
58-90-2	2,3,4,6-Tetrachlorophenol	1	<240	U	88	240	390
84-66-2	Diethylphthalate	1	<120	U	89	120	390
7005-72-3	4-Chlorophenyl-phenylether	1	<120	U	79	120	390
100-01-6	4-Nitroaniline	1	<120	U	97	120	390
534-52-1	2-Methyl-4,6-dinitrophenol	1	<360	U	150	360	390
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<240	U	170	240	390
101-55-3	4-Bromophenyl-phenylether	1	<120	U	86	120	390
118-74-1	Hexachlorobenzene	1	<120	U	96	120	390
1912-24-9	Atrazine	1	<120	U	88	120	390
87-86-5	Pentachlorophenol	1	<360	U	170	360	390
86-74-8	Carbazole	1	<120	U	81	120	390
84-74-2	Di-n-butylphthalate	1	<120	U	94	120	390
85-68-7	Butylbenzylphthalate	1	<120	U	110	120	390
91-94-1	3,3'-Dichlorobenzidine	1	<120	U	110	120	390
117-81-7	Bis(2-ethylhexyl)phthalate	1	510		100	120	390
117-84-0	Di-n-octylphthalate	1	<120	U	79	120	390

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000301-02-0	9-Octadecenamide, (Z)- (01)	15.133	2600	J
000301-02-0	9-Octadecenamide, (Z)- (02)	15.183	790	J
000301-02-0	9-Octadecenamide, (Z)- (03)	16.273	350	J
000629-54-9	Hexadecanamide	14.259	170	J
000124-26-5	Octadecanamide	15.243	550	J
NA	Tentatively Identified Compounds		0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1970	1400	69	35 - 105	
Phenol-d5	1970	1600	79	40 - 100	
Nitrobenzene-d5	1970	1300	65	35 - 100	
2-Fluorobiphenyl	1970	1400	68	45 - 105	
2,4,6-Tribromophenol	1970	2100	105	35 - 125	
Terphenyl-d14	1970	2600	133	30 - 125	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	448871	6.886	482335	6.976	
Naphthalene-d8	1899992	8.462	1977928	8.555	
Acenaphthene-d10	1098019	10.669	1068606	10.762	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	1ga023.D
Sampled:	06/19/13 10:20	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 20:57
Solids:	84.46	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24827 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Phenanthrene-d10	1909470	12.54	1699960	12.644	
Chrysene-d12	1248520	16.118	971732	16.262	
Perylene-d12	542999	19.065	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	1ga024.D
Sampled:	06/19/13 10:40	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 21:25
Solids:	80.68	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24827 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<120	U	120	120	410
108-95-2	Phenol	1	<120	U	94	120	410
111-44-4	Bis(2-chloroethyl)ether	1	<120	U	110	120	410
95-57-8	2-Chlorophenol	1	<120	U	100	120	410
95-48-7	2-Methylphenol	1	<120	U	87	120	410
108-60-1	Bis(2-chloroisopropyl)ether	1	<120	U	100	120	410
98-86-2	Acetophenone	1	<120	U	100	120	410
108-39-4/106-44-5	3 & 4-Methylphenol	1	<250	U	200	250	410
621-64-7	N-Nitroso-di-n-propylamine	1	<120	U	110	120	410
67-72-1	Hexachloroethane	1	<120	U	92	120	410
98-95-3	Nitrobenzene	1	<120	U	98	120	410
78-59-1	Isophorone	1	<120	U	89	120	410
88-75-5	2-Nitrophenol	1	<120	U	97	120	410
105-67-9	2,4-Dimethylphenol	1	<120	U	92	120	410
111-91-1	Bis(2-chloroethoxy)methane	1	<120	U	79	120	410
120-83-2	2,4-Dichlorophenol	1	<120	U	88	120	410
106-47-8	4-Chloroaniline	1	<120	U	110	120	410
87-68-3	Hexachlorobutadiene	1	<120	U	99	120	410
105-60-2	Caprolactam	1	<250	U	120	250	410
59-50-7	4-Chloro-3-methylphenol	1	<120	U	83	120	410
77-47-4	Hexachlorocyclopentadiene	1	<120	U	120	120	410
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<120	UQ	86	120	410
88-06-2	2,4,6-Trichlorophenol	1	<120	U	74	120	410
95-95-4	2,4,5-Trichlorophenol	1	<120	U	72	120	410
92-52-4	1,1'-Biphenyl	1	<120	U	120	120	410
91-58-7	2-Chloronaphthalene	1	<120	U	81	120	410
88-74-4	2-Nitroaniline	1	<120	U	83	120	410
131-11-3	Dimethylphthalate	1	<120	U	77	120	410
606-20-2	2,6-Dinitrotoluene	1	<120	U	86	120	410
99-09-2	3-Nitroaniline	1	<120	U	92	120	410
51-28-5	2,4-Dinitrophenol	1	<370	U	150	370	410
100-02-7	4-Nitrophenol	1	<120	U	100	120	410
132-64-9	Dibenzofuran	1	<120	U	82	120	410

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	1ga024.D
Sampled:	06/19/13 10:40	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 21:25
Solids:	80.68	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24827 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<120	U	89	120	410
58-90-2	2,3,4,6-Tetrachlorophenol	1	<250	U	92	250	410
84-66-2	Diethylphthalate	1	<120	U	93	120	410
7005-72-3	4-Chlorophenyl-phenylether	1	<120	U	83	120	410
100-01-6	4-Nitroaniline	1	<120	U	100	120	410
534-52-1	2-Methyl-4,6-dinitrophenol	1	<370	U	160	370	410
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<250	U	170	250	410
101-55-3	4-Bromophenyl-phenylether	1	<120	U	90	120	410
118-74-1	Hexachlorobenzene	1	<120	U	100	120	410
1912-24-9	Atrazine	1	<120	U	92	120	410
87-86-5	Pentachlorophenol	1	<370	U	170	370	410
86-74-8	Carbazole	1	<120	U	84	120	410
84-74-2	Di-n-butylphthalate	1	<120	U	98	120	410
85-68-7	Butylbenzylphthalate	1	<120	U	120	120	410
91-94-1	3,3'-Dichlorobenzidine	1	<120	U	110	120	410
117-81-7	Bis(2-ethylhexyl)phthalate	1	<120	U	110	120	410
117-84-0	Di-n-octylphthalate	1	<120	U	83	120	410

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000122-69-0	Cinnamyl cinnamate	15.567	270	J
NA	Tentatively Identified Compounds		0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2070	1500	72	35 - 105	
Phenol-d5	2070	1700	83	40 - 100	
Nitrobenzene-d5	2070	1400	66	35 - 100	
2-Fluorobiphenyl	2070	900	44	45 - 105	*
2,4,6-Tribromophenol	2070	1500	72	35 - 125	
Terphenyl-d14	2070	1900	92	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	443799	6.886	482335	6.976	
Naphthalene-d8	1868216	8.462	1977928	8.555	
Acenaphthene-d10	1085005	10.659	1068606	10.762	
Phenanthrene-d10	1865271	12.541	1699960	12.644	
Chrysene-d12	1049721	16.118	971732	16.262	
Perylene-d12	518857	19.065	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07RE1	File ID:	1gc013.D
Sampled:	06/19/13 10:40	Prepared:	07/08/13 01:00	Analyzed:	07/08/13 12:42
Solids:	80.68	Preparation:	EPA 3550C_MS	Initial/Final:	30.2 g / 1 mL

Batch: 3G08001 Sequence: AA24841 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<120	UQ	120	120	410
108-95-2	Phenol	1	<120	UQ	94	120	410
111-44-4	Bis(2-chloroethyl)ether	1	<120	UQ	110	120	410
95-57-8	2-Chlorophenol	1	<120	UQ	100	120	410
95-48-7	2-Methylphenol	1	<120	UQ	87	120	410
108-60-1	Bis(2-chloroisopropyl)ether	1	<120	UQ	100	120	410
98-86-2	Acetophenone	1	<120	UQ	100	120	410
108-39-4/106-44-5	3 & 4-Methylphenol	1	<250	UQ	200	250	410
621-64-7	N-Nitroso-di-n-propylamine	1	<120	UQ	110	120	410
67-72-1	Hexachloroethane	1	<120	UQ	92	120	410
98-95-3	Nitrobenzene	1	<120	UQ	98	120	410
78-59-1	Isophorone	1	<120	UQ	89	120	410
88-75-5	2-Nitrophenol	1	<120	UQ	97	120	410
105-67-9	2,4-Dimethylphenol	1	<120	UQ	92	120	410
111-91-1	Bis(2-chloroethoxy)methane	1	<120	UQ	79	120	410
120-83-2	2,4-Dichlorophenol	1	<120	UQ	88	120	410
106-47-8	4-Chloroaniline	1	<120	UQ	110	120	410
87-68-3	Hexachlorobutadiene	1	<120	UQ	99	120	410
105-60-2	Caprolactam	1	<250	UQ	120	250	410
59-50-7	4-Chloro-3-methylphenol	1	<120	UQ	83	120	410
77-47-4	Hexachlorocyclopentadiene	1	<120	UQ	120	120	410
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<120	UQ	86	120	410
88-06-2	2,4,6-Trichlorophenol	1	<120	UQ	74	120	410
95-95-4	2,4,5-Trichlorophenol	1	<120	UQ	72	120	410
92-52-4	1,1'-Biphenyl	1	<120	UQ	120	120	410
91-58-7	2-Chloronaphthalene	1	<120	UQ	81	120	410
88-74-4	2-Nitroaniline	1	<120	UQ	83	120	410
131-11-3	Dimethylphthalate	1	<120	UQ	77	120	410
606-20-2	2,6-Dinitrotoluene	1	<120	UQ	86	120	410
99-09-2	3-Nitroaniline	1	<120	UQ	92	120	410
51-28-5	2,4-Dinitrophenol	1	<370	UQ	150	370	410
100-02-7	4-Nitrophenol	1	<120	UQ	100	120	410
132-64-9	Dibenzofuran	1	<120	UQ	82	120	410

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07RE1	File ID:	1gc013.D
Sampled:	06/19/13 10:40	Prepared:	07/08/13 01:00	Analyzed:	07/08/13 12:42
Solids:	80.68	Preparation:	EPA 3550C_MS	Initial/Final:	30.2 g / 1 mL

Batch: 3G08001 Sequence: AA24841 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<120	UQ	89	120	410
58-90-2	2,3,4,6-Tetrachlorophenol	1	<250	UQ	92	250	410
84-66-2	Diethylphthalate	1	<120	UQ	93	120	410
7005-72-3	4-Chlorophenyl-phenylether	1	<120	UQ	83	120	410
100-01-6	4-Nitroaniline	1	<120	UQ	100	120	410
534-52-1	2-Methyl-4,6-dinitrophenol	1	<370	UQ	160	370	410
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<250	UQ	170	250	410
101-55-3	4-Bromophenyl-phenylether	1	<120	UQ	90	120	410
118-74-1	Hexachlorobenzene	1	<120	UQ	100	120	410
1912-24-9	Atrazine	1	<120	UQ	92	120	410
87-86-5	Pentachlorophenol	1	<370	UQ	170	370	410
86-74-8	Carbazole	1	<120	UQ	84	120	410
84-74-2	Di-n-butylphthalate	1	<120	UQ	98	120	410
85-68-7	Butylbenzylphthalate	1	<120	UQ	120	120	410
91-94-1	3,3'-Dichlorobenzidine	1	<120	UQ	110	120	410
117-81-7	Bis(2-ethylhexyl)phthalate	1	<120	UQ	110	120	410
117-84-0	Di-n-octylphthalate	1	<120	UQ	83	120	410

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0	UQ
NA	unknown	15.253	210	JQ

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2050	780	38	35 - 105	
Phenol-d5	2050	860	42	40 - 100	
Nitrobenzene-d5	2050	760	37	35 - 100	
2-Fluorobiphenyl	2050	850	42	45 - 105	*
2,4,6-Tribromophenol	2050	1600	80	35 - 125	
Terphenyl-d14	2050	2200	109	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	513786	6.846	482335	6.976	
Naphthalene-d8	2115873	8.425	1977928	8.555	
Acenaphthene-d10	1205502	10.622	1068606	10.762	
Phenanthrene-d10	1933927	12.495	1699960	12.644	
Chrysene-d12	1117671	16.063	971732	16.262	
Perylene-d12	751351	18.998	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-08	File ID:	1gb008.D
Sampled:	06/19/13 10:45	Prepared:	06/24/13 11:05	Analyzed:	07/07/13 10:29
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 3F24010 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<6.0	U	5.4	6.0	10
108-95-2	Phenol	1	<3.0	U	1.4	3.0	10
111-44-4	Bis(2-chloroethyl)ether	1	<6.0	U	3.2	6.0	10
95-57-8	2-Chlorophenol	1	<6.0	U	2.8	6.0	10
95-48-7	2-Methylphenol	1	<3.0	U	2.3	3.0	10
108-60-1	Bis(2-chloroisopropyl)ether	1	<6.0	U	3.1	6.0	10
98-86-2	Acetophenone	1	<3.0	U	3.0	3.0	10
108-39-4/106-44-5	3 & 4-Methylphenol	1	<6.0	U	4.5	6.0	10
621-64-7	N-Nitroso-di-n-propylamine	1	<6.0	U	3.4	6.0	10
67-72-1	Hexachloroethane	1	<3.0	U	2.9	3.0	10
98-95-3	Nitrobenzene	1	<6.0	U	3.1	6.0	10
78-59-1	Isophorone	1	<3.0	U	2.9	3.0	10
88-75-5	2-Nitrophenol	1	<6.0	U	3.1	6.0	10
105-67-9	2,4-Dimethylphenol	1	<6.0	U	2.7	6.0	10
111-91-1	Bis(2-chloroethoxy)methane	1	<6.0	U	2.7	6.0	10
120-83-2	2,4-Dichlorophenol	1	<6.0	U	3.3	6.0	10
106-47-8	4-Chloroaniline	1	<6.0	U	2.7	6.0	10
87-68-3	Hexachlorobutadiene	1	<6.0	U	3.6	6.0	10
105-60-2	Caprolactam	1	<3.0	U	2.7	3.0	10
59-50-7	4-Chloro-3-methylphenol	1	<6.0	U	2.6	6.0	10
77-47-4	Hexachlorocyclopentadiene	1	<6.0	U	3.8	6.0	10
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<6.0	U	3.2	6.0	10
88-06-2	2,4,6-Trichlorophenol	1	<6.0	U	3.7	6.0	10
95-95-4	2,4,5-Trichlorophenol	1	<6.0	U	3.6	6.0	10
92-52-4	1,1'-Biphenyl	1	<9.0	U	7.0	9.0	10
91-58-7	2-Chloronaphthalene	1	<3.0	U	3.0	3.0	10
88-74-4	2-Nitroaniline	1	<3.0	U	2.8	3.0	10
131-11-3	Dimethylphthalate	1	<3.0	U	2.9	3.0	10
606-20-2	2,6-Dinitrotoluene	1	<3.0	U	2.7	3.0	10
99-09-2	3-Nitroaniline	1	<3.0	U	2.8	3.0	10
51-28-5	2,4-Dinitrophenol	1	<6.0	U	5.2	6.0	10
100-02-7	4-Nitrophenol	1	<3.0	U	2.3	3.0	10
132-64-9	Dibenzofuran	1	<3.0	U	2.8	3.0	10

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-08	File ID:	1gb008.D
Sampled:	06/19/13 10:45	Prepared:	06/24/13 11:05	Analyzed:	07/07/13 10:29
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 3F24010 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<6.0	U	2.8	6.0	10
58-90-2	2,3,4,6-Tetrachlorophenol	1	<6.0	U	4.7	6.0	10
84-66-2	Diethylphthalate	1	<3.0	U	3.0	3.0	10
7005-72-3	4-Chlorophenyl-phenylether	1	<6.0	U	3.2	6.0	10
100-01-6	4-Nitroaniline	1	<3.0	U	2.7	3.0	10
534-52-1	2-Methyl-4,6-dinitrophenol	1	<6.0	U	6.0	6.0	10
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<6.0	U	5.4	6.0	10
101-55-3	4-Bromophenyl-phenylether	1	<6.0	U	3.3	6.0	10
118-74-1	Hexachlorobenzene	1	<3.0	U	3.0	3.0	10
1912-24-9	Atrazine	1	<3.0	UQ	2.9	3.0	10
87-86-5	Pentachlorophenol	1	<9.0	U	6.3	9.0	10
86-74-8	Carbazole	1	<3.0	U	2.5	3.0	10
84-74-2	Di-n-butylphthalate	1	<3.0	U	2.7	3.0	10
85-68-7	Butylbenzylphthalate	1	<3.0	U	2.8	3.0	10
91-94-1	3,3'-Dichlorobenzidine	1	<6.0	U	3.2	6.0	10
117-81-7	Bis(2-ethylhexyl)phthalate	1	8.9	J	3.5	6.0	10
117-84-0	Di-n-octylphthalate	1	<6.0	U	3.4	6.0	10

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
NA	Tentatively Identified Compounds		0.0	U
NA	unknown (01)	5.837	5.4	J
NA	unknown (02)	8.704	9.5	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	50.0	8.7	17	20 - 110	*
Phenol-d5	50.0	8.2	16	10 - 115	
Nitrobenzene-d5	50.0	38	76	40 - 110	
2-Fluorobiphenyl	50.0	39	79	50 - 110	
2,4,6-Tribromophenol	50.0	19	37	40 - 125	*
Terphenyl-d14	50.0	63	127	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	330502	6.856	482335	6.976	
Naphthalene-d8	1374160	8.434	1977928	8.555	
Acenaphthene-d10	744900	10.631	1068606	10.762	
Phenanthrene-d10	1239804	12.506	1699960	12.644	
Chrysene-d12	838702	16.074	971732	16.262	
Perylene-d12	621690	19.014	611159	19.226	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020		
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC		
Matrix:	Ground Water	Laboratory ID:	A303499-08	File ID:	1gb008.D		
Sampled:	06/19/13 10:45	Prepared:	06/24/13 11:05	Analyzed:	07/07/13 10:29		
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL		
Batch:	3F24010	Sequence:	AA24837	Calibration:	1307010	Instrument:	OSVGCMS1

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	1ga025.D
Sampled:	06/19/13 11:20	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 21:54
Solids:	84.06	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24827	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<120	U	120	120	390
108-95-2	Phenol	1	<120	U	90	120	390
111-44-4	Bis(2-chloroethyl)ether	1	<120	U	110	120	390
95-57-8	2-Chlorophenol	1	<120	U	98	120	390
95-48-7	2-Methylphenol	1	<120	U	83	120	390
108-60-1	Bis(2-chloroisopropyl)ether	1	<120	U	98	120	390
98-86-2	Acetophenone	1	<120	U	99	120	390
108-39-4/106-44-5	3 & 4-Methylphenol	1	<240	U	190	240	390
621-64-7	N-Nitroso-di-n-propylamine	1	<120	U	110	120	390
67-72-1	Hexachloroethane	1	<120	U	88	120	390
98-95-3	Nitrobenzene	1	<120	U	94	120	390
78-59-1	Isophorone	1	<120	U	86	120	390
88-75-5	2-Nitrophenol	1	<120	U	93	120	390
105-67-9	2,4-Dimethylphenol	1	<120	U	88	120	390
111-91-1	Bis(2-chloroethoxy)methane	1	<120	U	76	120	390
120-83-2	2,4-Dichlorophenol	1	<120	U	84	120	390
106-47-8	4-Chloroaniline	1	<120	U	110	120	390
87-68-3	Hexachlorobutadiene	1	<120	U	95	120	390
105-60-2	Caprolactam	1	<240	U	120	240	390
59-50-7	4-Chloro-3-methylphenol	1	<120	U	80	120	390
77-47-4	Hexachlorocyclopentadiene	1	<120	U	110	120	390
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<120	UQ	82	120	390
88-06-2	2,4,6-Trichlorophenol	1	<120	U	71	120	390
95-95-4	2,4,5-Trichlorophenol	1	<120	U	69	120	390
92-52-4	1,1'-Biphenyl	1	<120	U	110	120	390
91-58-7	2-Chloronaphthalene	1	<120	U	77	120	390
88-74-4	2-Nitroaniline	1	<120	U	80	120	390
131-11-3	Dimethylphthalate	1	<120	U	74	120	390
606-20-2	2,6-Dinitrotoluene	1	<120	U	82	120	390
99-09-2	3-Nitroaniline	1	<120	U	88	120	390
51-28-5	2,4-Dinitrophenol	1	<360	U	140	360	390
100-02-7	4-Nitrophenol	1	<120	U	98	120	390
132-64-9	Dibenzofuran	1	<120	U	79	120	390

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	1ga025.D
Sampled:	06/19/13 11:20	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 21:54
Solids:	84.06	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch:	3F21017	Sequence:	AA24827	Calibration:	1307010	Instrument:	OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<120	U	86	120	390
58-90-2	2,3,4,6-Tetrachlorophenol	1	<240	U	88	240	390
84-66-2	Diethylphthalate	1	<120	U	89	120	390
7005-72-3	4-Chlorophenyl-phenylether	1	<120	U	80	120	390
100-01-6	4-Nitroaniline	1	<120	U	98	120	390
534-52-1	2-Methyl-4,6-dinitrophenol	1	<360	U	150	360	390
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<240	U	170	240	390
101-55-3	4-Bromophenyl-phenylether	1	<120	U	87	120	390
118-74-1	Hexachlorobenzene	1	<120	U	96	120	390
1912-24-9	Atrazine	1	<120	U	88	120	390
87-86-5	Pentachlorophenol	1	<360	U	170	360	390
86-74-8	Carbazole	1	<120	U	81	120	390
84-74-2	Di-n-butylphthalate	1	<120	U	94	120	390
85-68-7	Butylbenzylphthalate	1	<120	U	110	120	390
91-94-1	3,3'-Dichlorobenzidine	1	<120	U	110	120	390
117-81-7	Bis(2-ethylhexyl)phthalate	1	<120	U	100	120	390
117-84-0	Di-n-octylphthalate	1	<120	U	80	120	390

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0	U
NA	unknown (01)	14.068	370	J
NA	unknown (02)	14.771	240	J
NA	unknown (03)	15.283	530	J
NA	unknown (04)	16.184	360	J
NA	unknown (05)	16.802	250	J
NA	unknown (06)	18.057	960	J
NA	unknown (07)	19.404	160	J
NA	unknown (08)	19.786	510	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1980	1200	60	35 - 105	
Phenol-d5	1980	1300	68	40 - 100	
Nitrobenzene-d5	1980	1100	54	35 - 100	
2-Fluorobiphenyl	1980	990	50	45 - 105	
2,4,6-Tribromophenol	1980	1800	91	35 - 125	
Terphenyl-d14	1980	2000	102	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	1ga025.D
Sampled:	06/19/13 11:20	Prepared:	06/21/13 11:30	Analyzed:	07/06/13 21:54
Solids:	84.06	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24827 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	447520	6.886	482335	6.976	
Naphthalene-d8	1882590	8.462	1977928	8.555	
Acenaphthene-d10	1056964	10.659	1068606	10.762	
Phenanthrene-d10	1762821	12.541	1699960	12.644	
Chrysene-d12	987056	16.118	971732	16.262	
Perylene-d12	420124	19.065	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	1gb009.D
Sampled:	06/19/13 11:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 10:58
Solids:	79.06	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<130	U	130	130	420
108-95-2	Phenol	1	<130	U	96	130	420
111-44-4	Bis(2-chloroethyl)ether	1	<130	U	120	130	420
95-57-8	2-Chlorophenol	1	<130	U	100	130	420
95-48-7	2-Methylphenol	1	<130	U	89	130	420
108-60-1	Bis(2-chloroisopropyl)ether	1	<130	U	100	130	420
98-86-2	Acetophenone	1	<130	U	100	130	420
108-39-4/106-44-5	3 & 4-Methylphenol	1	<250	U	200	250	420
621-64-7	N-Nitroso-di-n-propylamine	1	<130	U	110	130	420
67-72-1	Hexachloroethane	1	<130	U	94	130	420
98-95-3	Nitrobenzene	1	<130	U	100	130	420
78-59-1	Isophorone	1	<130	U	91	130	420
88-75-5	2-Nitrophenol	1	<130	U	99	130	420
105-67-9	2,4-Dimethylphenol	1	<130	U	94	130	420
111-91-1	Bis(2-chloroethoxy)methane	1	<130	U	81	130	420
120-83-2	2,4-Dichlorophenol	1	<130	U	90	130	420
106-47-8	4-Chloroaniline	1	<130	U	120	130	420
87-68-3	Hexachlorobutadiene	1	<130	U	100	130	420
105-60-2	Caprolactam	1	<250	U	130	250	420
59-50-7	4-Chloro-3-methylphenol	1	<130	U	85	130	420
77-47-4	Hexachlorocyclopentadiene	1	<130	U	120	130	420
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<130	UQ	87	130	420
88-06-2	2,4,6-Trichlorophenol	1	<130	U	76	130	420
95-95-4	2,4,5-Trichlorophenol	1	<130	U	73	130	420
92-52-4	1,1'-Biphenyl	1	<130	U	120	130	420
91-58-7	2-Chloronaphthalene	1	<130	U	82	130	420
88-74-4	2-Nitroaniline	1	<130	U	85	130	420
131-11-3	Dimethylphthalate	1	<130	U	78	130	420
606-20-2	2,6-Dinitrotoluene	1	<130	U	87	130	420
99-09-2	3-Nitroaniline	1	<130	U	94	130	420
51-28-5	2,4-Dinitrophenol	1	<380	U	150	380	420
100-02-7	4-Nitrophenol	1	<130	U	100	130	420
132-64-9	Dibenzofuran	1	<130	U	83	130	420

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	1gb009.D
Sampled:	06/19/13 11:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 10:58
Solids:	79.06	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<130	U	91	130	420
58-90-2	2,3,4,6-Tetrachlorophenol	1	<250	U	94	250	420
84-66-2	Diethylphthalate	1	<130	U	95	130	420
7005-72-3	4-Chlorophenyl-phenylether	1	<130	U	85	130	420
100-01-6	4-Nitroaniline	1	<130	U	100	130	420
534-52-1	2-Methyl-4,6-dinitrophenol	1	<380	U	160	380	420
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<250	U	180	250	420
101-55-3	4-Bromophenyl-phenylether	1	<130	U	92	130	420
118-74-1	Hexachlorobenzene	1	<130	U	100	130	420
1912-24-9	Atrazine	1	<130	U	94	130	420
87-86-5	Pentachlorophenol	1	<380	U	180	380	420
86-74-8	Carbazole	1	<130	U	86	130	420
84-74-2	Di-n-butylphthalate	1	<130	U	100	130	420
85-68-7	Butylbenzylphthalate	1	<130	U	120	130	420
91-94-1	3,3'-Dichlorobenzidine	1	<130	U	120	130	420
117-81-7	Bis(2-ethylhexyl)phthalate	1	<130	U	110	130	420
117-84-0	Di-n-octylphthalate	1	<130	U	85	130	420

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
055956-25-7	2-Propanol, 1-[1-methyl-2-(...	14.741	230	J
000301-02-0	9-Octadecenamide, (Z)-	15.103	270	J
NA	Tentatively Identified Compounds		0	U
NA	unknown (01)	14.038	380	J
NA	unknown (02)	15.233	270	J
NA	unknown (03)	16.14	310	J
NA	unknown (04)	18.003	280	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2110	1900	92	35 - 105	
Phenol-d5	2110	2100	101	40 - 100	*
Nitrobenzene-d5	2110	1800	85	35 - 100	
2-Fluorobiphenyl	2110	1600	74	45 - 105	
2,4,6-Tribromophenol	2110	2100	99	35 - 125	
Terphenyl-d14	2110	2500	118	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	358211	6.856	482335	6.976	
Naphthalene-d8	1504021	8.434	1977928	8.555	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	1gb009.D
Sampled:	06/19/13 11:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 10:58
Solids:	79.06	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Acenaphthene-d10	801341	10.632	1068606	10.762	
Phenanthrene-d10	1299825	12.506	1699960	12.644	
Chrysene-d12	811469	16.074	971732	16.262	
Perylene-d12	552578	19.015	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06D-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	1gb024.D
Sampled:	06/19/13 11:25	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:02
Solids:	83.39	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	2	<240	UD	240	240	790
108-95-2	Phenol	2	<240	UD	180	240	790
111-44-4	Bis(2-chloroethyl)ether	2	<240	UD	220	240	790
95-57-8	2-Chlorophenol	2	<240	UD	200	240	790
95-48-7	2-Methylphenol	2	<240	UD	170	240	790
108-60-1	Bis(2-chloroisopropyl)ether	2	<240	UD	200	240	790
98-86-2	Acetophenone	2	<240	UD	200	240	790
108-39-4/106-44-5	3 & 4-Methylphenol	2	<480	UD	380	480	790
621-64-7	N-Nitroso-di-n-propylamine	2	<240	UD	220	240	790
67-72-1	Hexachloroethane	2	<240	UD	180	240	790
98-95-3	Nitrobenzene	2	<240	UD	190	240	790
78-59-1	Isophorone	2	<240	UD	170	240	790
88-75-5	2-Nitrophenol	2	<240	UD	190	240	790
105-67-9	2,4-Dimethylphenol	2	<240	UD	180	240	790
111-91-1	Bis(2-chloroethoxy)methane	2	<240	UD	150	240	790
120-83-2	2,4-Dichlorophenol	2	<240	UD	170	240	790
106-47-8	4-Chloroaniline	2	<240	UD	220	240	790
87-68-3	Hexachlorobutadiene	2	<240	UD	190	240	790
105-60-2	Caprolactam	2	<480	UD	240	480	790
59-50-7	4-Chloro-3-methylphenol	2	<240	UD	160	240	790
77-47-4	Hexachlorocyclopentadiene	2	<240	UD	220	240	790
95-94-3	1,2,4,5-Tetrachlorobenzene	2	<240	UDQ	170	240	790
88-06-2	2,4,6-Trichlorophenol	2	<240	UD	140	240	790
95-95-4	2,4,5-Trichlorophenol	2	<240	UD	140	240	790
92-52-4	1,1'-Biphenyl	2	<240	UD	230	240	790
91-58-7	2-Chloronaphthalene	2	<240	UD	160	240	790
88-74-4	2-Nitroaniline	2	<240	UD	160	240	790
131-11-3	Dimethylphthalate	2	<240	UD	150	240	790
606-20-2	2,6-Dinitrotoluene	2	<240	UD	170	240	790
99-09-2	3-Nitroaniline	2	<240	UD	180	240	790
51-28-5	2,4-Dinitrophenol	2	<720	UD	290	720	790
100-02-7	4-Nitrophenol	2	<240	UD	200	240	790
132-64-9	Dibenzofuran	2	<240	UD	160	240	790

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06D-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	1gb024.D
Sampled:	06/19/13 11:25	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:02
Solids:	83.39	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	2	<240	UD	170	240	790
58-90-2	2,3,4,6-Tetrachlorophenol	2	<480	UD	180	480	790
84-66-2	Diethylphthalate	2	<240	UD	180	240	790
7005-72-3	4-Chlorophenyl-phenylether	2	<240	UD	160	240	790
100-01-6	4-Nitroaniline	2	<240	UD	200	240	790
534-52-1	2-Methyl-4,6-dinitrophenol	2	<720	UD	310	720	790
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	2	<480	UD	340	480	790
101-55-3	4-Bromophenyl-phenylether	2	<240	UD	180	240	790
118-74-1	Hexachlorobenzene	2	<240	UD	190	240	790
1912-24-9	Atrazine	2	<240	UD	180	240	790
87-86-5	Pentachlorophenol	2	<720	UD	340	720	790
86-74-8	Carbazole	2	<240	UD	160	240	790
84-74-2	Di-n-butylphthalate	2	<240	UD	190	240	790
85-68-7	Butylbenzylphthalate	2	<240	UD	220	240	790
91-94-1	3,3'-Dichlorobenzidine	2	<240	UD	220	240	790
117-81-7	Bis(2-ethylhexyl)phthalate	2	270	JD	200	240	790
117-84-0	Di-n-octylphthalate	2	<240	UD	160	240	790

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0	UD

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2000	1400	68	35 - 105	
Phenol-d5	2000	1500	77	40 - 100	
Nitrobenzene-d5	2000	1200	63	35 - 100	
2-Fluorobiphenyl	2000	1200	62	45 - 105	
2,4,6-Tribromophenol	2000	1800	90	35 - 125	
Terphenyl-d14	2000	1800	91	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	351562	6.856	482335	6.976	
Naphthalene-d8	1502099	8.434	1977928	8.555	
Acenaphthene-d10	860079	10.632	1068606	10.762	
Phenanthrene-d10	1490222	12.506	1699960	12.644	
Chrysene-d12	563093	16.074	971732	16.262	
Perylene-d12	243818	19.015	611159	19.226	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	1gb017.D
Sampled:	06/19/13 11:35	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 14:44
Solids:	78.23	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<130	U	130	130	420
108-95-2	Phenol	1	<130	U	97	130	420
111-44-4	Bis(2-chloroethyl)ether	1	<130	U	120	130	420
95-57-8	2-Chlorophenol	1	<130	U	100	130	420
95-48-7	2-Methylphenol	1	<130	U	89	130	420
108-60-1	Bis(2-chloroisopropyl)ether	1	<130	U	100	130	420
98-86-2	Acetophenone	1	<130	U	110	130	420
108-39-4/106-44-5	3 & 4-Methylphenol	1	<260	U	200	260	420
621-64-7	N-Nitroso-di-n-propylamine	1	<130	U	120	130	420
67-72-1	Hexachloroethane	1	<130	U	95	130	420
98-95-3	Nitrobenzene	1	<130	U	100	130	420
78-59-1	Isophorone	1	<130	U	92	130	420
88-75-5	2-Nitrophenol	1	<130	U	100	130	420
105-67-9	2,4-Dimethylphenol	1	<130	U	95	130	420
111-91-1	Bis(2-chloroethoxy)methane	1	<130	U	82	130	420
120-83-2	2,4-Dichlorophenol	1	<130	U	91	130	420
106-47-8	4-Chloroaniline	1	<130	U	120	130	420
87-68-3	Hexachlorobutadiene	1	<130	U	100	130	420
105-60-2	Caprolactam	1	<260	U	130	260	420
59-50-7	4-Chloro-3-methylphenol	1	<130	U	86	130	420
77-47-4	Hexachlorocyclopentadiene	1	<130	U	120	130	420
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<130	UQ	88	130	420
88-06-2	2,4,6-Trichlorophenol	1	<130	U	77	130	420
95-95-4	2,4,5-Trichlorophenol	1	<130	U	74	130	420
92-52-4	1,1'-Biphenyl	1	<130	U	120	130	420
91-58-7	2-Chloronaphthalene	1	<130	U	83	130	420
88-74-4	2-Nitroaniline	1	<130	U	86	130	420
131-11-3	Dimethylphthalate	1	<130	U	79	130	420
606-20-2	2,6-Dinitrotoluene	1	<130	U	88	130	420
99-09-2	3-Nitroaniline	1	<130	U	95	130	420
51-28-5	2,4-Dinitrophenol	1	<380	U	150	380	420
100-02-7	4-Nitrophenol	1	<130	U	100	130	420
132-64-9	Dibenzofuran	1	<130	U	84	130	420

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	1gb017.D
Sampled:	06/19/13 11:35	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 14:44
Solids:	78.23	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<130	U	92	130	420
58-90-2	2,3,4,6-Tetrachlorophenol	1	<260	U	95	260	420
84-66-2	Diethylphthalate	1	<130	U	96	130	420
7005-72-3	4-Chlorophenyl-phenylether	1	<130	U	86	130	420
100-01-6	4-Nitroaniline	1	<130	U	100	130	420
534-52-1	2-Methyl-4,6-dinitrophenol	1	<380	U	170	380	420
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<260	U	180	260	420
101-55-3	4-Bromophenyl-phenylether	1	<130	U	93	130	420
118-74-1	Hexachlorobenzene	1	<130	U	100	130	420
1912-24-9	Atrazine	1	<130	U	95	130	420
87-86-5	Pentachlorophenol	1	<380	U	180	380	420
86-74-8	Carbazole	1	<130	U	87	130	420
84-74-2	Di-n-butylphthalate	1	<130	U	100	130	420
85-68-7	Butylbenzylphthalate	1	<130	U	120	130	420
91-94-1	3,3'-Dichlorobenzidine	1	<130	U	120	130	420
117-81-7	Bis(2-ethylhexyl)phthalate	1	<130	U	110	130	420
117-84-0	Di-n-octylphthalate	1	<130	U	86	130	420

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000301-02-0	9-Octadecenamide, (Z)-	15.103	260	J
NA	Tentatively Identified Compounds		0	U
NA	unknown (01)	14.038	180	J
NA	unknown (02)	16.14	230	J
NA	unknown (03)	16.769	220	J
NA	unknown (04)	19.744	250	J
NA	unknwon	18.003	340	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2130	1900	88	35 - 105	
Phenol-d5	2130	2200	104	40 - 100	*
Nitrobenzene-d5	2130	1700	80	35 - 100	
2-Fluorobiphenyl	2130	1400	68	45 - 105	
2,4,6-Tribromophenol	2130	2000	96	35 - 125	
Terphenyl-d14	2130	2500	117	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	383157	6.856	482335	6.976	
Naphthalene-d8	1626257	8.434	1977928	8.555	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	1gb017.D
Sampled:	06/19/13 11:35	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 14:44
Solids:	78.23	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Acenaphthene-d10	904955	10.641	1068606	10.762	
Phenanthrene-d10	1439896	12.506	1699960	12.644	
Chrysene-d12	916521	16.074	971732	16.262	
Perylene-d12	701177	19.023	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-13	File ID:	1gb010.D
Sampled:	06/19/13 12:00	Prepared:	06/24/13 11:05	Analyzed:	07/07/13 11:26
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 3F24010 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<6.0	U	5.4	6.0	10
108-95-2	Phenol	1	<3.0	U	1.4	3.0	10
111-44-4	Bis(2-chloroethyl)ether	1	<6.0	U	3.2	6.0	10
95-57-8	2-Chlorophenol	1	<6.0	U	2.8	6.0	10
95-48-7	2-Methylphenol	1	<3.0	U	2.3	3.0	10
108-60-1	Bis(2-chloroisopropyl)ether	1	<6.0	U	3.1	6.0	10
98-86-2	Acetophenone	1	<3.0	U	3.0	3.0	10
108-39-4/106-44-5	3 & 4-Methylphenol	1	<6.0	U	4.5	6.0	10
621-64-7	N-Nitroso-di-n-propylamine	1	<6.0	U	3.4	6.0	10
67-72-1	Hexachloroethane	1	<3.0	U	2.9	3.0	10
98-95-3	Nitrobenzene	1	<6.0	U	3.1	6.0	10
78-59-1	Isophorone	1	<3.0	U	2.9	3.0	10
88-75-5	2-Nitrophenol	1	<6.0	U	3.1	6.0	10
105-67-9	2,4-Dimethylphenol	1	<6.0	U	2.7	6.0	10
111-91-1	Bis(2-chloroethoxy)methane	1	<6.0	U	2.7	6.0	10
120-83-2	2,4-Dichlorophenol	1	<6.0	U	3.3	6.0	10
106-47-8	4-Chloroaniline	1	<6.0	U	2.7	6.0	10
87-68-3	Hexachlorobutadiene	1	<6.0	U	3.6	6.0	10
105-60-2	Caprolactam	1	<3.0	U	2.7	3.0	10
59-50-7	4-Chloro-3-methylphenol	1	<6.0	U	2.6	6.0	10
77-47-4	Hexachlorocyclopentadiene	1	<6.0	U	3.8	6.0	10
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<6.0	U	3.2	6.0	10
88-06-2	2,4,6-Trichlorophenol	1	<6.0	U	3.7	6.0	10
95-95-4	2,4,5-Trichlorophenol	1	<6.0	U	3.6	6.0	10
92-52-4	1,1'-Biphenyl	1	<9.0	U	7.0	9.0	10
91-58-7	2-Chloronaphthalene	1	<3.0	U	3.0	3.0	10
88-74-4	2-Nitroaniline	1	<3.0	U	2.8	3.0	10
131-11-3	Dimethylphthalate	1	<3.0	U	2.9	3.0	10
606-20-2	2,6-Dinitrotoluene	1	<3.0	U	2.7	3.0	10
99-09-2	3-Nitroaniline	1	<3.0	U	2.8	3.0	10
51-28-5	2,4-Dinitrophenol	1	<6.0	U	5.2	6.0	10
100-02-7	4-Nitrophenol	1	<3.0	U	2.3	3.0	10
132-64-9	Dibenzofuran	1	<3.0	U	2.8	3.0	10

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-13	File ID:	1gb010.D
Sampled:	06/19/13 12:00	Prepared:	06/24/13 11:05	Analyzed:	07/07/13 11:26
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 3F24010 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<6.0	U	2.8	6.0	10
58-90-2	2,3,4,6-Tetrachlorophenol	1	<6.0	U	4.7	6.0	10
84-66-2	Diethylphthalate	1	<3.0	U	3.0	3.0	10
7005-72-3	4-Chlorophenyl-phenylether	1	<6.0	U	3.2	6.0	10
100-01-6	4-Nitroaniline	1	<3.0	U	2.7	3.0	10
534-52-1	2-Methyl-4,6-dinitrophenol	1	<6.0	U	6.0	6.0	10
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<6.0	U	5.4	6.0	10
101-55-3	4-Bromophenyl-phenylether	1	<6.0	U	3.3	6.0	10
118-74-1	Hexachlorobenzene	1	<3.0	U	3.0	3.0	10
1912-24-9	Atrazine	1	<3.0	UQ	2.9	3.0	10
87-86-5	Pentachlorophenol	1	<9.0	U	6.3	9.0	10
86-74-8	Carbazole	1	<3.0	U	2.5	3.0	10
84-74-2	Di-n-butylphthalate	1	<3.0	U	2.7	3.0	10
85-68-7	Butylbenzylphthalate	1	<3.0	U	2.8	3.0	10
91-94-1	3,3'-Dichlorobenzidine	1	<6.0	U	3.2	6.0	10
117-81-7	Bis(2-ethylhexyl)phthalate	1	<6.0	U	3.5	6.0	10
117-84-0	Di-n-octylphthalate	1	<6.0	U	3.4	6.0	10

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	50.0	17	34	20 - 110	
Phenol-d5	50.0	14	29	10 - 115	
Nitrobenzene-d5	50.0	30	59	40 - 110	
2-Fluorobiphenyl	50.0	30	60	50 - 110	
2,4,6-Tribromophenol	50.0	28	56	40 - 125	
Terphenyl-d14	50.0	52	104	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	390070	6.856	482335	6.976	
Naphthalene-d8	1668138	8.434	1977928	8.555	
Acenaphthene-d10	898863	10.641	1068606	10.762	
Phenanthrene-d10	1424746	12.506	1699960	12.644	
Chrysene-d12	952230	16.074	971732	16.262	
Perylene-d12	703744	19.023	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	1gb025.D
Sampled:	06/19/13 12:50	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:31
Solids:	85.68	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	2	<230	UD	230	230	770
108-95-2	Phenol	2	<230	UD	180	230	770
111-44-4	Bis(2-chloroethyl)ether	2	<230	UD	210	230	770
95-57-8	2-Chlorophenol	2	<230	UD	190	230	770
95-48-7	2-Methylphenol	2	<230	UD	160	230	770
108-60-1	Bis(2-chloroisopropyl)ether	2	<230	UD	190	230	770
98-86-2	Acetophenone	2	<230	UD	190	230	770
108-39-4/106-44-5	3 & 4-Methylphenol	2	<470	UD	370	470	770
621-64-7	N-Nitroso-di-n-propylamine	2	<230	UD	210	230	770
67-72-1	Hexachloroethane	2	<230	UD	170	230	770
98-95-3	Nitrobenzene	2	<230	UD	180	230	770
78-59-1	Isophorone	2	<230	UD	170	230	770
88-75-5	2-Nitrophenol	2	<230	UD	180	230	770
105-67-9	2,4-Dimethylphenol	2	<230	UD	170	230	770
111-91-1	Bis(2-chloroethoxy)methane	2	<230	UD	150	230	770
120-83-2	2,4-Dichlorophenol	2	<230	UD	170	230	770
106-47-8	4-Chloroaniline	2	<230	UD	210	230	770
87-68-3	Hexachlorobutadiene	2	<230	UD	190	230	770
105-60-2	Caprolactam	2	<470	UD	230	470	770
59-50-7	4-Chloro-3-methylphenol	2	<230	UD	160	230	770
77-47-4	Hexachlorocyclopentadiene	2	<230	UD	220	230	770
95-94-3	1,2,4,5-Tetrachlorobenzene	2	<230	UDQ	160	230	770
88-06-2	2,4,6-Trichlorophenol	2	<230	UD	140	230	770
95-95-4	2,4,5-Trichlorophenol	2	<230	UD	140	230	770
92-52-4	1,1'-Biphenyl	2	<230	UD	220	230	770
91-58-7	2-Chloronaphthalene	2	<230	UD	150	230	770
88-74-4	2-Nitroaniline	2	<230	UD	160	230	770
131-11-3	Dimethylphthalate	2	<230	UD	140	230	770
606-20-2	2,6-Dinitrotoluene	2	<230	UD	160	230	770
99-09-2	3-Nitroaniline	2	<230	UD	170	230	770
51-28-5	2,4-Dinitrophenol	2	<700	UD	280	700	770
100-02-7	4-Nitrophenol	2	<230	UD	190	230	770
132-64-9	Dibenzofuran	2	<230	UD	150	230	770

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	1gb025.D
Sampled:	06/19/13 12:50	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:31
Solids:	85.68	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	2	<230	UD	170	230	770
58-90-2	2,3,4,6-Tetrachlorophenol	2	<470	UD	170	470	770
84-66-2	Diethylphthalate	2	<230	UD	180	230	770
7005-72-3	4-Chlorophenyl-phenylether	2	<230	UD	160	230	770
100-01-6	4-Nitroaniline	2	<230	UD	190	230	770
534-52-1	2-Methyl-4,6-dinitrophenol	2	<700	UD	300	700	770
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	2	<470	UD	330	470	770
101-55-3	4-Bromophenyl-phenylether	2	<230	UD	170	230	770
118-74-1	Hexachlorobenzene	2	<230	UD	190	230	770
1912-24-9	Atrazine	2	<230	UD	170	230	770
87-86-5	Pentachlorophenol	2	<700	UD	330	700	770
86-74-8	Carbazole	2	<230	UD	160	230	770
84-74-2	Di-n-butylphthalate	2	<230	UD	180	230	770
85-68-7	Butylbenzylphthalate	2	<230	UD	220	230	770
91-94-1	3,3'-Dichlorobenzidine	2	<230	UDQ	210	230	770
117-81-7	Bis(2-ethylhexyl)phthalate	2	250	JDQ	200	230	770
117-84-0	Di-n-octylphthalate	2	<230	UDQ	160	230	770

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000087-44-5	Caryophyllene	10.203	670	JD
002440-22-4	Drometrizole	13.937	500	JD
129-00-0	Pyrene	14.329	530	JD
NA	Tentatively Identified Compounds		0	UD
NA	unknown (01)	15.534	1900	JD
NA	unknown (02)	15.711	1300	JD
NA	unknown (03)	16.317	950	JD
NA	unknown (04)	16.383	1400	JD
NA	unknown (05)	16.438	410	JD
NA	unknown (06)	16.482	490	JD

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1950	1200	61	35 - 105	
Phenol-d5	1950	1400	71	40 - 100	
Nitrobenzene-d5	1950	1200	61	35 - 100	
2-Fluorobiphenyl	1950	1200	61	45 - 105	
2,4,6-Tribromophenol	1950	1600	83	35 - 125	
Terphenyl-d14	1950	1500	75	30 - 125	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	1gb025.D
Sampled:	06/19/13 12:50	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:31
Solids:	85.68	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	441572	6.856	482335	6.976	
Naphthalene-d8	1897053	8.434	1977928	8.555	
Acenaphthene-d10	1106859	10.641	1068606	10.762	
Phenanthrene-d10	1412311	12.506	1699960	12.644	
Chrysene-d12	470991	16.074	971732	16.262	*
Perylene-d12	156773	19.015	611159	19.226	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14RE1	File ID:	1gc014.D
Sampled:	06/19/13 12:50	Prepared:	06/21/13 11:30	Analyzed:	07/08/13 13:10
Solids:	85.68	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24841	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	5	<580	UD	580	580	1900
108-95-2	Phenol	5	<580	UD	440	580	1900
111-44-4	Bis(2-chloroethyl)ether	5	<580	UD	540	580	1900
95-57-8	2-Chlorophenol	5	<580	UD	480	580	1900
95-48-7	2-Methylphenol	5	<580	UD	410	580	1900
108-60-1	Bis(2-chloroisopropyl)ether	5	<580	UD	480	580	1900
98-86-2	Acetophenone	5	<580	UD	480	580	1900
108-39-4/106-44-5	3 & 4-Methylphenol	5	<1200	UD	930	1200	1900
621-64-7	N-Nitroso-di-n-propylamine	5	<580	UD	530	580	1900
67-72-1	Hexachloroethane	5	<580	UD	430	580	1900
98-95-3	Nitrobenzene	5	<580	UD	460	580	1900
78-59-1	Isophorone	5	<580	UD	420	580	1900
88-75-5	2-Nitrophenol	5	<580	UD	460	580	1900
105-67-9	2,4-Dimethylphenol	5	<580	UD	430	580	1900
111-91-1	Bis(2-chloroethoxy)methane	5	<580	UD	370	580	1900
120-83-2	2,4-Dichlorophenol	5	<580	UD	410	580	1900
106-47-8	4-Chloroaniline	5	<580	UD	540	580	1900
87-68-3	Hexachlorobutadiene	5	<580	UD	470	580	1900
105-60-2	Caprolactam	5	<1200	UD	580	1200	1900
59-50-7	4-Chloro-3-methylphenol	5	<580	UD	390	580	1900
77-47-4	Hexachlorocyclopentadiene	5	<580	UD	540	580	1900
95-94-3	1,2,4,5-Tetrachlorobenzene	5	<580	UDQ	400	580	1900
88-06-2	2,4,6-Trichlorophenol	5	<580	UD	350	580	1900
95-95-4	2,4,5-Trichlorophenol	5	<580	UD	340	580	1900
92-52-4	1,1'-Biphenyl	5	<580	UD	550	580	1900
91-58-7	2-Chloronaphthalene	5	<580	UD	380	580	1900
88-74-4	2-Nitroaniline	5	<580	UD	390	580	1900
131-11-3	Dimethylphthalate	5	<580	UD	360	580	1900
606-20-2	2,6-Dinitrotoluene	5	<580	UD	400	580	1900
99-09-2	3-Nitroaniline	5	<580	UD	430	580	1900
51-28-5	2,4-Dinitrophenol	5	<1800	UD	700	1800	1900
100-02-7	4-Nitrophenol	5	<580	UD	480	580	1900
132-64-9	Dibenzofuran	5	<580	UD	390	580	1900

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14RE1	File ID:	1gc014.D
Sampled:	06/19/13 12:50	Prepared:	06/21/13 11:30	Analyzed:	07/08/13 13:10
Solids:	85.68	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24841	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	5	<580	UD	420	580	1900
58-90-2	2,3,4,6-Tetrachlorophenol	5	<1200	UD	430	1200	1900
84-66-2	Diethylphthalate	5	<580	UD	440	580	1900
7005-72-3	4-Chlorophenyl-phenylether	5	<580	UD	390	580	1900
100-01-6	4-Nitroaniline	5	<580	UD	480	580	1900
534-52-1	2-Methyl-4,6-dinitrophenol	5	<1800	UD	760	1800	1900
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	5	<1200	UD	820	1200	1900
101-55-3	4-Bromophenyl-phenylether	5	<580	UD	430	580	1900
118-74-1	Hexachlorobenzene	5	<580	UD	470	580	1900
1912-24-9	Atrazine	5	<580	UD	430	580	1900
87-86-5	Pentachlorophenol	5	<1800	UD	820	1800	1900
86-74-8	Carbazole	5	<580	UD	400	580	1900
84-74-2	Di-n-butylphthalate	5	<580	UD	460	580	1900
85-68-7	Butylbenzylphthalate	5	<580	UD	540	580	1900
91-94-1	3,3'-Dichlorobenzidine	5	<580	UD	530	580	1900
117-81-7	Bis(2-ethylhexyl)phthalate	5	<580	UDQ	500	580	1900
117-84-0	Di-n-octylphthalate	5	<580	UD	390	580	1900

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1950	880	45	35 - 105	
Phenol-d5	1950	1100	55	40 - 100	
Nitrobenzene-d5	1950	870	45	35 - 100	
2-Fluorobiphenyl	1950	930	48	45 - 105	
2,4,6-Tribromophenol	1950	1200	62	35 - 125	
Terphenyl-d14	1950	1400	73	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	479390	6.846	482335	6.976	
Naphthalene-d8	1972377	8.425	1977928	8.555	
Acenaphthene-d10	1131185	10.622	1068606	10.762	
Phenanthrene-d10	1876276	12.495	1699960	12.644	
Chrysene-d12	1229951	16.063	971732	16.262	
Perylene-d12	529097	18.998	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	1gb018.D
Sampled:	06/19/13 13:00	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 15:13
Solids:	79.34	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<130	U	120	130	420
108-95-2	Phenol	1	<130	U	96	130	420
111-44-4	Bis(2-chloroethyl)ether	1	<130	U	120	130	420
95-57-8	2-Chlorophenol	1	<130	U	100	130	420
95-48-7	2-Methylphenol	1	<130	U	88	130	420
108-60-1	Bis(2-chloroisopropyl)ether	1	<130	U	100	130	420
98-86-2	Acetophenone	1	<130	U	100	130	420
108-39-4/106-44-5	3 & 4-Methylphenol	1	<250	U	200	250	420
621-64-7	N-Nitroso-di-n-propylamine	1	<130	U	110	130	420
67-72-1	Hexachloroethane	1	<130	U	93	130	420
98-95-3	Nitrobenzene	1	<130	U	100	130	420
78-59-1	Isophorone	1	<130	U	91	130	420
88-75-5	2-Nitrophenol	1	<130	U	98	130	420
105-67-9	2,4-Dimethylphenol	1	<130	U	93	130	420
111-91-1	Bis(2-chloroethoxy)methane	1	<130	U	81	130	420
120-83-2	2,4-Dichlorophenol	1	<130	U	89	130	420
106-47-8	4-Chloroaniline	1	<130	U	120	130	420
87-68-3	Hexachlorobutadiene	1	<130	U	100	130	420
105-60-2	Caprolactam	1	<250	U	130	250	420
59-50-7	4-Chloro-3-methylphenol	1	<130	U	84	130	420
77-47-4	Hexachlorocyclopentadiene	1	<130	U	120	130	420
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<130	UQ	87	130	420
88-06-2	2,4,6-Trichlorophenol	1	<130	U	76	130	420
95-95-4	2,4,5-Trichlorophenol	1	<130	U	73	130	420
92-52-4	1,1'-Biphenyl	1	<130	U	120	130	420
91-58-7	2-Chloronaphthalene	1	<130	U	82	130	420
88-74-4	2-Nitroaniline	1	<130	U	84	130	420
131-11-3	Dimethylphthalate	1	<130	U	78	130	420
606-20-2	2,6-Dinitrotoluene	1	<130	U	87	130	420
99-09-2	3-Nitroaniline	1	<130	U	93	130	420
51-28-5	2,4-Dinitrophenol	1	<380	U	150	380	420
100-02-7	4-Nitrophenol	1	<130	U	100	130	420
132-64-9	Dibenzofuran	1	<130	U	83	130	420

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	1gb018.D
Sampled:	06/19/13 13:00	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 15:13
Solids:	79.34	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<130	U	91	130	420
58-90-2	2,3,4,6-Tetrachlorophenol	1	<250	U	93	250	420
84-66-2	Diethylphthalate	1	<130	U	95	130	420
7005-72-3	4-Chlorophenyl-phenylether	1	<130	U	84	130	420
100-01-6	4-Nitroaniline	1	<130	U	100	130	420
534-52-1	2-Methyl-4,6-dinitrophenol	1	<380	U	160	380	420
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<250	U	180	250	420
101-55-3	4-Bromophenyl-phenylether	1	<130	U	92	130	420
118-74-1	Hexachlorobenzene	1	<130	U	100	130	420
1912-24-9	Atrazine	1	<130	U	93	130	420
87-86-5	Pentachlorophenol	1	<380	U	180	380	420
86-74-8	Carbazole	1	<130	U	86	130	420
84-74-2	Di-n-butylphthalate	1	<130	U	100	130	420
85-68-7	Butylbenzylphthalate	1	<130	U	120	130	420
91-94-1	3,3'-Dichlorobenzidine	1	<130	U	110	130	420
117-81-7	Bis(2-ethylhexyl)phthalate	1	270	J	110	130	420
117-84-0	Di-n-octylphthalate	1	<130	U	84	130	420

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000087-44-5	Caryophyllene	10.203	210	J
000122-69-0	Cinnamyl cinnamate	15.534	850	J
000079-34-5	Ethane, 1,1,2,2-tetrachloro-	5.827	410	J
NA	Tentatively Identified Compounds		0	U
000638-58-4	Tetradecanamide	15.203	230	J
NA	unknown (01)	14.038	260	J
NA	unknown (02)	15.102	820	J
NA	unknown (03)	16.14	240	J
NA	unknown (04)	18.003	220	J
NA	unknown (05)	19.752	270	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2100	1800	88	35 - 105	
Phenol-d5	2100	2000	94	40 - 100	
Nitrobenzene-d5	2100	1700	81	35 - 100	
2-Fluorobiphenyl	2100	1500	73	45 - 105	
2,4,6-Tribromophenol	2100	2200	107	35 - 125	
Terphenyl-d14	2100	2600	124	30 - 125	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	1gb018.D
Sampled:	06/19/13 13:00	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 15:13
Solids:	79.34	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	327166	6.856	482335	6.976	
Naphthalene-d8	1301621	8.434	1977928	8.555	
Acenaphthene-d10	686354	10.631	1068606	10.762	
Phenanthrene-d10	1166725	12.506	1699960	12.644	
Chrysene-d12	859825	16.074	971732	16.262	
Perylene-d12	635203	19.023	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-16	File ID:	1gb011.D
Sampled:	06/19/13 13:00	Prepared:	06/24/13 11:05	Analyzed:	07/07/13 11:54
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 3F24010 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<6.0	U	5.4	6.0	10
108-95-2	Phenol	1	<3.0	U	1.4	3.0	10
111-44-4	Bis(2-chloroethyl)ether	1	<6.0	U	3.2	6.0	10
95-57-8	2-Chlorophenol	1	<6.0	U	2.8	6.0	10
95-48-7	2-Methylphenol	1	<3.0	U	2.3	3.0	10
108-60-1	Bis(2-chloroisopropyl)ether	1	<6.0	U	3.1	6.0	10
98-86-2	Acetophenone	1	<3.0	U	3.0	3.0	10
108-39-4/106-44-5	3 & 4-Methylphenol	1	<6.0	U	4.5	6.0	10
621-64-7	N-Nitroso-di-n-propylamine	1	<6.0	U	3.4	6.0	10
67-72-1	Hexachloroethane	1	<3.0	U	2.9	3.0	10
98-95-3	Nitrobenzene	1	<6.0	U	3.1	6.0	10
78-59-1	Isophorone	1	<3.0	U	2.9	3.0	10
88-75-5	2-Nitrophenol	1	<6.0	U	3.1	6.0	10
105-67-9	2,4-Dimethylphenol	1	<6.0	U	2.7	6.0	10
111-91-1	Bis(2-chloroethoxy)methane	1	<6.0	U	2.7	6.0	10
120-83-2	2,4-Dichlorophenol	1	<6.0	U	3.3	6.0	10
106-47-8	4-Chloroaniline	1	<6.0	U	2.7	6.0	10
87-68-3	Hexachlorobutadiene	1	<6.0	U	3.6	6.0	10
105-60-2	Caprolactam	1	<3.0	U	2.7	3.0	10
59-50-7	4-Chloro-3-methylphenol	1	<6.0	U	2.6	6.0	10
77-47-4	Hexachlorocyclopentadiene	1	<6.0	U	3.8	6.0	10
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<6.0	U	3.2	6.0	10
88-06-2	2,4,6-Trichlorophenol	1	<6.0	U	3.7	6.0	10
95-95-4	2,4,5-Trichlorophenol	1	<6.0	U	3.6	6.0	10
92-52-4	1,1'-Biphenyl	1	<9.0	U	7.0	9.0	10
91-58-7	2-Chloronaphthalene	1	<3.0	U	3.0	3.0	10
88-74-4	2-Nitroaniline	1	<3.0	U	2.8	3.0	10
131-11-3	Dimethylphthalate	1	<3.0	U	2.9	3.0	10
606-20-2	2,6-Dinitrotoluene	1	<3.0	U	2.7	3.0	10
99-09-2	3-Nitroaniline	1	<3.0	U	2.8	3.0	10
51-28-5	2,4-Dinitrophenol	1	<6.0	U	5.2	6.0	10
100-02-7	4-Nitrophenol	1	<3.0	U	2.3	3.0	10
132-64-9	Dibenzofuran	1	<3.0	U	2.8	3.0	10

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-16	File ID:	1gb011.D
Sampled:	06/19/13 13:00	Prepared:	06/24/13 11:05	Analyzed:	07/07/13 11:54
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 3F24010 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<6.0	U	2.8	6.0	10
58-90-2	2,3,4,6-Tetrachlorophenol	1	<6.0	U	4.7	6.0	10
84-66-2	Diethylphthalate	1	<3.0	U	3.0	3.0	10
7005-72-3	4-Chlorophenyl-phenylether	1	<6.0	U	3.2	6.0	10
100-01-6	4-Nitroaniline	1	<3.0	U	2.7	3.0	10
534-52-1	2-Methyl-4,6-dinitrophenol	1	<6.0	U	6.0	6.0	10
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<6.0	U	5.4	6.0	10
101-55-3	4-Bromophenyl-phenylether	1	<6.0	U	3.3	6.0	10
118-74-1	Hexachlorobenzene	1	<3.0	U	3.0	3.0	10
1912-24-9	Atrazine	1	<3.0	UQ	2.9	3.0	10
87-86-5	Pentachlorophenol	1	<9.0	U	6.3	9.0	10
86-74-8	Carbazole	1	<3.0	U	2.5	3.0	10
84-74-2	Di-n-butylphthalate	1	<3.0	U	2.7	3.0	10
85-68-7	Butylbenzylphthalate	1	<3.0	U	2.8	3.0	10
91-94-1	3,3'-Dichlorobenzidine	1	<6.0	U	3.2	6.0	10
117-81-7	Bis(2-ethylhexyl)phthalate	1	22		3.5	6.0	10
117-84-0	Di-n-octylphthalate	1	<6.0	U	3.4	6.0	10

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
NA	Tentatively Identified Compounds		0.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	50.0	19	38	20 - 110	
Phenol-d5	50.0	17	34	10 - 115	
Nitrobenzene-d5	50.0	36	72	40 - 110	
2-Fluorobiphenyl	50.0	38	75	50 - 110	
2,4,6-Tribromophenol	50.0	31	61	40 - 125	
Terphenyl-d14	50.0	48	95	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	375751	6.856	482335	6.976	
Naphthalene-d8	1560774	8.434	1977928	8.555	
Acenaphthene-d10	837172	10.632	1068606	10.762	
Phenanthrene-d10	1307904	12.506	1699960	12.644	
Chrysene-d12	846702	16.074	971732	16.262	
Perylene-d12	628180	19.023	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	1gb026.D
Sampled:	06/19/13 13:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:58
Solids:	75.47	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	2	<260	UD	260	260	870
108-95-2	Phenol	2	<260	UD	200	260	870
111-44-4	Bis(2-chloroethyl)ether	2	<260	UD	240	260	870
95-57-8	2-Chlorophenol	2	<260	UD	220	260	870
95-48-7	2-Methylphenol	2	<260	UD	190	260	870
108-60-1	Bis(2-chloroisopropyl)ether	2	<260	UD	220	260	870
98-86-2	Acetophenone	2	<260	UD	220	260	870
108-39-4/106-44-5	3 & 4-Methylphenol	2	<530	UD	420	530	870
621-64-7	N-Nitroso-di-n-propylamine	2	<260	UD	240	260	870
67-72-1	Hexachloroethane	2	<260	UD	200	260	870
98-95-3	Nitrobenzene	2	<260	UD	210	260	870
78-59-1	Isophorone	2	<260	UD	190	260	870
88-75-5	2-Nitrophenol	2	<260	UD	210	260	870
105-67-9	2,4-Dimethylphenol	2	<260	UD	200	260	870
111-91-1	Bis(2-chloroethoxy)methane	2	<260	UD	170	260	870
120-83-2	2,4-Dichlorophenol	2	<260	UD	190	260	870
106-47-8	4-Chloroaniline	2	<260	UD	240	260	870
87-68-3	Hexachlorobutadiene	2	<260	UD	210	260	870
105-60-2	Caprolactam	2	<530	UD	260	530	870
59-50-7	4-Chloro-3-methylphenol	2	<260	UD	180	260	870
77-47-4	Hexachlorocyclopentadiene	2	<260	UD	250	260	870
95-94-3	1,2,4,5-Tetrachlorobenzene	2	<260	UDQ	180	260	870
88-06-2	2,4,6-Trichlorophenol	2	<260	UD	160	260	870
95-95-4	2,4,5-Trichlorophenol	2	<260	UD	150	260	870
92-52-4	1,1'-Biphenyl	2	<260	UD	250	260	870
91-58-7	2-Chloronaphthalene	2	<260	UD	170	260	870
88-74-4	2-Nitroaniline	2	<260	UD	180	260	870
131-11-3	Dimethylphthalate	2	<260	UD	160	260	870
606-20-2	2,6-Dinitrotoluene	2	<260	UD	180	260	870
99-09-2	3-Nitroaniline	2	<260	UD	200	260	870
51-28-5	2,4-Dinitrophenol	2	<790	UD	320	790	870
100-02-7	4-Nitrophenol	2	<260	UD	220	260	870
132-64-9	Dibenzofuran	2	<260	UD	170	260	870

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	1gb026.D
Sampled:	06/19/13 13:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:58
Solids:	75.47	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010	Instrument:	OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	2	<260	UD	190	260	870
58-90-2	2,3,4,6-Tetrachlorophenol	2	<530	UD	200	530	870
84-66-2	Diethylphthalate	2	<260	UD	200	260	870
7005-72-3	4-Chlorophenyl-phenylether	2	<260	UD	180	260	870
100-01-6	4-Nitroaniline	2	<260	UD	220	260	870
534-52-1	2-Methyl-4,6-dinitrophenol	2	<790	UD	340	790	870
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	2	<530	UD	370	530	870
101-55-3	4-Bromophenyl-phenylether	2	<260	UD	190	260	870
118-74-1	Hexachlorobenzene	2	<260	UD	210	260	870
1912-24-9	Atrazine	2	<260	UD	200	260	870
87-86-5	Pentachlorophenol	2	<790	UD	370	790	870
86-74-8	Carbazole	2	<260	UD	180	260	870
84-74-2	Di-n-butylphthalate	2	<260	UD	210	260	870
85-68-7	Butylbenzylphthalate	2	<260	UD	250	260	870
91-94-1	3,3'-Dichlorobenzidine	2	<260	UDQ	240	260	870
117-81-7	Bis(2-ethylhexyl)phthalate	2	<260	UDQ	230	260	870
117-84-0	Di-n-octylphthalate	2	<260	UDQ	180	260	870

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0	UD
NA	unknown (01)	15.243	640	JD
NA	unknown (02)	16.151	530	JD
NA	unknown (03)	16.769	410	JD
NA	unknown (04)	18.003	1300	JD

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2210	1600	72	35 - 105	
Phenol-d5	2210	1900	85	40 - 100	
Nitrobenzene-d5	2210	1400	65	35 - 100	
2-Fluorobiphenyl	2210	1100	52	45 - 105	
2,4,6-Tribromophenol	2210	1900	85	35 - 125	
Terphenyl-d14	2210	1500	66	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	449847	6.856	482335	6.976	
Naphthalene-d8	1942342	8.434	1977928	8.555	
Acenaphthene-d10	1116985	10.641	1068606	10.762	
Phenanthrene-d10	1436503	12.506	1699960	12.644	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	1gb026.D
Sampled:	06/19/13 13:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 18:58
Solids:	75.47	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chrysene-d12	482725	16.074	971732	16.262	
Perylene-d12	160089	19.014	611159	19.226	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17RE1	File ID:	1gc015.D
Sampled:	06/19/13 13:30	Prepared:	06/21/13 11:30	Analyzed:	07/08/13 13:39
Solids:	75.47	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24841	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	5	<660	UD	660	660	2200
108-95-2	Phenol	5	<660	UD	500	660	2200
111-44-4	Bis(2-chloroethyl)ether	5	<660	UD	610	660	2200
95-57-8	2-Chlorophenol	5	<660	UD	540	660	2200
95-48-7	2-Methylphenol	5	<660	UD	460	660	2200
108-60-1	Bis(2-chloroisopropyl)ether	5	<660	UD	540	660	2200
98-86-2	Acetophenone	5	<660	UD	550	660	2200
108-39-4/106-44-5	3 & 4-Methylphenol	5	<1300	UD	1100	1300	2200
621-64-7	N-Nitroso-di-n-propylamine	5	<660	UD	600	660	2200
67-72-1	Hexachloroethane	5	<660	UD	490	660	2200
98-95-3	Nitrobenzene	5	<660	UD	520	660	2200
78-59-1	Isophorone	5	<660	UD	480	660	2200
88-75-5	2-Nitrophenol	5	<660	UD	520	660	2200
105-67-9	2,4-Dimethylphenol	5	<660	UD	490	660	2200
111-91-1	Bis(2-chloroethoxy)methane	5	<660	UD	420	660	2200
120-83-2	2,4-Dichlorophenol	5	<660	UD	470	660	2200
106-47-8	4-Chloroaniline	5	<660	UD	610	660	2200
87-68-3	Hexachlorobutadiene	5	<660	UD	530	660	2200
105-60-2	Caprolactam	5	<1300	UD	660	1300	2200
59-50-7	4-Chloro-3-methylphenol	5	<660	UD	440	660	2200
77-47-4	Hexachlorocyclopentadiene	5	<660	UD	620	660	2200
95-94-3	1,2,4,5-Tetrachlorobenzene	5	<660	UDQ	460	660	2200
88-06-2	2,4,6-Trichlorophenol	5	<660	UD	400	660	2200
95-95-4	2,4,5-Trichlorophenol	5	<660	UD	380	660	2200
92-52-4	1,1'-Biphenyl	5	<660	UD	630	660	2200
91-58-7	2-Chloronaphthalene	5	<660	UD	430	660	2200
88-74-4	2-Nitroaniline	5	<660	UD	440	660	2200
131-11-3	Dimethylphthalate	5	<660	UD	410	660	2200
606-20-2	2,6-Dinitrotoluene	5	<660	UD	460	660	2200
99-09-2	3-Nitroaniline	5	<660	UD	490	660	2200
51-28-5	2,4-Dinitrophenol	5	<2000	UD	790	2000	2200
100-02-7	4-Nitrophenol	5	<660	UD	540	660	2200
132-64-9	Dibenzofuran	5	<660	UD	440	660	2200

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17RE1	File ID:	1gc015.D
Sampled:	06/19/13 13:30	Prepared:	06/21/13 11:30	Analyzed:	07/08/13 13:39
Solids:	75.47	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24841	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	5	<660	UD	480	660	2200
58-90-2	2,3,4,6-Tetrachlorophenol	5	<1300	UD	490	1300	2200
84-66-2	Diethylphthalate	5	<660	UD	500	660	2200
7005-72-3	4-Chlorophenyl-phenylether	5	<660	UD	440	660	2200
100-01-6	4-Nitroaniline	5	<660	UD	540	660	2200
534-52-1	2-Methyl-4,6-dinitrophenol	5	<2000	UD	860	2000	2200
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	5	<1300	UD	930	1300	2200
101-55-3	4-Bromophenyl-phenylether	5	<660	UD	480	660	2200
118-74-1	Hexachlorobenzene	5	<660	UD	540	660	2200
1912-24-9	Atrazine	5	<660	UD	490	660	2200
87-86-5	Pentachlorophenol	5	<2000	UD	930	2000	2200
86-74-8	Carbazole	5	<660	UD	450	660	2200
84-74-2	Di-n-butylphthalate	5	<660	UD	520	660	2200
85-68-7	Butylbenzylphthalate	5	<660	UD	620	660	2200
91-94-1	3,3'-Dichlorobenzidine	5	<660	UD	600	660	2200
117-81-7	Bis(2-ethylhexyl)phthalate	5	<660	UDQ	560	660	2200
117-84-0	Di-n-octylphthalate	5	<660	UD	440	660	2200

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2210	1200	54	35 - 105	
Phenol-d5	2210	1400	62	40 - 100	
Nitrobenzene-d5	2210	1000	46	35 - 100	
2-Fluorobiphenyl	2210	800	36	45 - 105	*
2,4,6-Tribromophenol	2210	1400	62	35 - 125	
Terphenyl-d14	2210	1400	61	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	394994	6.846	482335	6.976	
Naphthalene-d8	1604805	8.425	1977928	8.555	
Acenaphthene-d10	928527	10.622	1068606	10.762	
Phenanthrene-d10	1522489	12.494	1699960	12.644	
Chrysene-d12	916916	16.063	971732	16.262	
Perylene-d12	469792	18.997	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	1gb019.D
Sampled:	06/19/13 13:40	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 15:41
Solids:	75.96	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<130	U	130	130	430
108-95-2	Phenol	1	<130	U	100	130	430
111-44-4	Bis(2-chloroethyl)ether	1	<130	U	120	130	430
95-57-8	2-Chlorophenol	1	<130	U	110	130	430
95-48-7	2-Methylphenol	1	<130	U	92	130	430
108-60-1	Bis(2-chloroisopropyl)ether	1	<130	U	110	130	430
98-86-2	Acetophenone	1	<130	U	110	130	430
108-39-4/106-44-5	3 & 4-Methylphenol	1	<260	U	210	260	430
621-64-7	N-Nitroso-di-n-propylamine	1	<130	U	120	130	430
67-72-1	Hexachloroethane	1	<130	U	97	130	430
98-95-3	Nitrobenzene	1	<130	U	100	130	430
78-59-1	Isophorone	1	<130	U	95	130	430
88-75-5	2-Nitrophenol	1	<130	U	100	130	430
105-67-9	2,4-Dimethylphenol	1	<130	U	97	130	430
111-91-1	Bis(2-chloroethoxy)methane	1	<130	U	84	130	430
120-83-2	2,4-Dichlorophenol	1	<130	U	93	130	430
106-47-8	4-Chloroaniline	1	<130	U	120	130	430
87-68-3	Hexachlorobutadiene	1	<130	U	110	130	430
105-60-2	Caprolactam	1	<260	U	130	260	430
59-50-7	4-Chloro-3-methylphenol	1	<130	U	88	130	430
77-47-4	Hexachlorocyclopentadiene	1	<130	U	120	130	430
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<130	UQ	91	130	430
88-06-2	2,4,6-Trichlorophenol	1	<130	U	79	130	430
95-95-4	2,4,5-Trichlorophenol	1	<130	U	76	130	430
92-52-4	1,1'-Biphenyl	1	<130	U	130	130	430
91-58-7	2-Chloronaphthalene	1	<130	U	86	130	430
88-74-4	2-Nitroaniline	1	<130	U	88	130	430
131-11-3	Dimethylphthalate	1	<130	U	82	130	430
606-20-2	2,6-Dinitrotoluene	1	<130	U	91	130	430
99-09-2	3-Nitroaniline	1	<130	U	97	130	430
51-28-5	2,4-Dinitrophenol	1	<390	U	160	390	430
100-02-7	4-Nitrophenol	1	<130	U	110	130	430
132-64-9	Dibenzofuran	1	<130	U	87	130	430

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	1gb019.D
Sampled:	06/19/13 13:40	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 15:41
Solids:	75.96	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<130	U	95	130	430
58-90-2	2,3,4,6-Tetrachlorophenol	1	<260	U	97	260	430
84-66-2	Diethylphthalate	1	<130	U	99	130	430
7005-72-3	4-Chlorophenyl-phenylether	1	<130	U	88	130	430
100-01-6	4-Nitroaniline	1	<130	U	110	130	430
534-52-1	2-Methyl-4,6-dinitrophenol	1	<390	U	170	390	430
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<260	U	180	260	430
101-55-3	4-Bromophenyl-phenylether	1	<130	U	96	130	430
118-74-1	Hexachlorobenzene	1	<130	U	110	130	430
1912-24-9	Atrazine	1	<130	U	97	130	430
87-86-5	Pentachlorophenol	1	<390	U	180	390	430
86-74-8	Carbazole	1	<130	U	90	130	430
84-74-2	Di-n-butylphthalate	1	<130	U	100	130	430
85-68-7	Butylbenzylphthalate	1	<130	U	120	130	430
91-94-1	3,3'-Dichlorobenzidine	1	<130	U	120	130	430
117-81-7	Bis(2-ethylhexyl)phthalate	1	<130	U	110	130	430
117-84-0	Di-n-octylphthalate	1	<130	U	88	130	430

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
NA	Tentatively Identified Compounds		0	U
NA	unknown (01)	14.038	210	J
NA	unknown (02)	15.103	350	J
NA	unknown (03)	16.769	290	J
NA	unknown (04)	18.003	220	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2190	1500	68	35 - 105	
Phenol-d5	2190	1700	78	40 - 100	
Nitrobenzene-d5	2190	1300	59	35 - 100	
2-Fluorobiphenyl	2190	1100	49	45 - 105	
2,4,6-Tribromophenol	2190	2100	97	35 - 125	
Terphenyl-d14	2190	2600	118	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	352014	6.856	482335	6.976	
Naphthalene-d8	1442700	8.434	1977928	8.555	
Acenaphthene-d10	764152	10.632	1068606	10.762	
Phenanthrene-d10	1279386	12.506	1699960	12.644	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	1gb019.D
Sampled:	06/19/13 13:40	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 15:41
Solids:	75.96	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chrysene-d12	949487	16.074	971732	16.262	
Perylene-d12	682114	19.023	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	1gb020.D
Sampled:	06/19/13 14:00	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 16:09
Solids:	76.63	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<130	U	130	130	430
108-95-2	Phenol	1	<130	U	99	130	430
111-44-4	Bis(2-chloroethyl)ether	1	<130	U	120	130	430
95-57-8	2-Chlorophenol	1	<130	U	110	130	430
95-48-7	2-Methylphenol	1	<130	U	91	130	430
108-60-1	Bis(2-chloroisopropyl)ether	1	<130	U	110	130	430
98-86-2	Acetophenone	1	<130	U	110	130	430
108-39-4/106-44-5	3 & 4-Methylphenol	1	<260	U	210	260	430
621-64-7	N-Nitroso-di-n-propylamine	1	<130	U	120	130	430
67-72-1	Hexachloroethane	1	<130	U	97	130	430
98-95-3	Nitrobenzene	1	<130	U	100	130	430
78-59-1	Isophorone	1	<130	U	94	130	430
88-75-5	2-Nitrophenol	1	<130	U	100	130	430
105-67-9	2,4-Dimethylphenol	1	<130	U	97	130	430
111-91-1	Bis(2-chloroethoxy)methane	1	<130	U	84	130	430
120-83-2	2,4-Dichlorophenol	1	<130	U	93	130	430
106-47-8	4-Chloroaniline	1	<130	U	120	130	430
87-68-3	Hexachlorobutadiene	1	<130	U	100	130	430
105-60-2	Caprolactam	1	<260	U	130	260	430
59-50-7	4-Chloro-3-methylphenol	1	<130	U	87	130	430
77-47-4	Hexachlorocyclopentadiene	1	<130	U	120	130	430
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<130	UQ	90	130	430
88-06-2	2,4,6-Trichlorophenol	1	<130	U	78	130	430
95-95-4	2,4,5-Trichlorophenol	1	<130	U	76	130	430
92-52-4	1,1'-Biphenyl	1	<130	U	120	130	430
91-58-7	2-Chloronaphthalene	1	<130	U	85	130	430
88-74-4	2-Nitroaniline	1	<130	U	87	130	430
131-11-3	Dimethylphthalate	1	<130	U	81	130	430
606-20-2	2,6-Dinitrotoluene	1	<130	U	90	130	430
99-09-2	3-Nitroaniline	1	<130	U	97	130	430
51-28-5	2,4-Dinitrophenol	1	<390	U	160	390	430
100-02-7	4-Nitrophenol	1	<130	U	110	130	430
132-64-9	Dibenzofuran	1	<130	U	86	130	430

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	1gb020.D
Sampled:	06/19/13 14:00	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 16:09
Solids:	76.63	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010	Instrument:	OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<130	U	94	130	430
58-90-2	2,3,4,6-Tetrachlorophenol	1	<260	U	97	260	430
84-66-2	Diethylphthalate	1	<130	U	98	130	430
7005-72-3	4-Chlorophenyl-phenylether	1	<130	U	87	130	430
100-01-6	4-Nitroaniline	1	<130	U	110	130	430
534-52-1	2-Methyl-4,6-dinitrophenol	1	<390	U	170	390	430
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<260	U	180	260	430
101-55-3	4-Bromophenyl-phenylether	1	<130	U	95	130	430
118-74-1	Hexachlorobenzene	1	<130	U	110	130	430
1912-24-9	Atrazine	1	<130	U	97	130	430
87-86-5	Pentachlorophenol	1	<390	U	180	390	430
86-74-8	Carbazole	1	<130	U	89	130	430
84-74-2	Di-n-butylphthalate	1	<130	U	100	130	430
85-68-7	Butylbenzylphthalate	1	<130	U	120	130	430
91-94-1	3,3'-Dichlorobenzidine	1	<130	U	120	130	430
117-81-7	Bis(2-ethylhexyl)phthalate	1	<130	U	110	130	430
117-84-0	Di-n-octylphthalate	1	<130	U	87	130	430

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000122-69-0	Cinnamyl cinnamate	15.545	1700	J
NA	Tentatively Identified Compounds		0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2180	1800	83	35 - 105	
Phenol-d5	2180	2200	99	40 - 100	
Nitrobenzene-d5	2180	1600	72	35 - 100	
2-Fluorobiphenyl	2180	1300	62	45 - 105	
2,4,6-Tribromophenol	2180	2100	97	35 - 125	
Terphenyl-d14	2180	2700	125	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	390073	6.856	482335	6.976	
Naphthalene-d8	1649444	8.434	1977928	8.555	
Acenaphthene-d10	921355	10.631	1068606	10.762	
Phenanthrene-d10	1460163	12.506	1699960	12.644	
Chrysene-d12	978658	16.074	971732	16.262	
Perylene-d12	677673	19.023	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	1gb021.D
Sampled:	06/19/13 14:10	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 16:37
Solids:	80.94	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<120	U	120	120	410
108-95-2	Phenol	1	<120	U	94	120	410
111-44-4	Bis(2-chloroethyl)ether	1	<120	U	110	120	410
95-57-8	2-Chlorophenol	1	<120	U	100	120	410
95-48-7	2-Methylphenol	1	<120	U	86	120	410
108-60-1	Bis(2-chloroisopropyl)ether	1	<120	U	100	120	410
98-86-2	Acetophenone	1	<120	U	100	120	410
108-39-4/106-44-5	3 & 4-Methylphenol	1	<250	U	200	250	410
621-64-7	N-Nitroso-di-n-propylamine	1	<120	U	110	120	410
67-72-1	Hexachloroethane	1	<120	U	91	120	410
98-95-3	Nitrobenzene	1	<120	U	98	120	410
78-59-1	Isophorone	1	<120	U	89	120	410
88-75-5	2-Nitrophenol	1	<120	U	96	120	410
105-67-9	2,4-Dimethylphenol	1	<120	U	91	120	410
111-91-1	Bis(2-chloroethoxy)methane	1	<120	U	79	120	410
120-83-2	2,4-Dichlorophenol	1	<120	U	88	120	410
106-47-8	4-Chloroaniline	1	<120	U	110	120	410
87-68-3	Hexachlorobutadiene	1	<120	U	99	120	410
105-60-2	Caprolactam	1	<250	U	120	250	410
59-50-7	4-Chloro-3-methylphenol	1	<120	U	83	120	410
77-47-4	Hexachlorocyclopentadiene	1	<120	U	110	120	410
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<120	UQ	85	120	410
88-06-2	2,4,6-Trichlorophenol	1	<120	U	74	120	410
95-95-4	2,4,5-Trichlorophenol	1	<120	U	72	120	410
92-52-4	1,1'-Biphenyl	1	<120	U	120	120	410
91-58-7	2-Chloronaphthalene	1	<120	U	80	120	410
88-74-4	2-Nitroaniline	1	<120	U	83	120	410
131-11-3	Dimethylphthalate	1	<120	U	77	120	410
606-20-2	2,6-Dinitrotoluene	1	<120	U	85	120	410
99-09-2	3-Nitroaniline	1	<120	U	91	120	410
51-28-5	2,4-Dinitrophenol	1	<370	U	150	370	410
100-02-7	4-Nitrophenol	1	<120	U	100	120	410
132-64-9	Dibenzofuran	1	<120	U	82	120	410

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	1gb021.D
Sampled:	06/19/13 14:10	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 16:37
Solids:	80.94	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<120	U	89	120	410
58-90-2	2,3,4,6-Tetrachlorophenol	1	<250	U	91	250	410
84-66-2	Diethylphthalate	1	<120	U	93	120	410
7005-72-3	4-Chlorophenyl-phenylether	1	<120	U	83	120	410
100-01-6	4-Nitroaniline	1	<120	U	100	120	410
534-52-1	2-Methyl-4,6-dinitrophenol	1	<370	U	160	370	410
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<250	U	170	250	410
101-55-3	4-Bromophenyl-phenylether	1	<120	U	90	120	410
118-74-1	Hexachlorobenzene	1	<120	U	100	120	410
1912-24-9	Atrazine	1	<120	U	91	120	410
87-86-5	Pentachlorophenol	1	<370	U	170	370	410
86-74-8	Carbazole	1	<120	U	84	120	410
84-74-2	Di-n-butylphthalate	1	<120	U	98	120	410
85-68-7	Butylbenzylphthalate	1	<120	U	110	120	410
91-94-1	3,3'-Dichlorobenzidine	1	<120	U	110	120	410
117-81-7	Bis(2-ethylhexyl)phthalate	1	<120	U	110	120	410
117-84-0	Di-n-octylphthalate	1	<120	U	83	120	410

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000122-69-0	Cinnamyl cinnamate	15.534	450	J
000462-95-3	Methane, diethoxy-	16.14	280	J
NA	Tentatively Identified Compounds		0	U
NA	unknown (01)	15.233	270	J
NA	unknown (02)	15.273	470	J
NA	unknown (03)	16.758	410	J
NA	unknown (04)	18.003	490	J
NA	unknown (05)	19.743	260	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2060	1600	78	35 - 105	
Phenol-d5	2060	1800	90	40 - 100	
Nitrobenzene-d5	2060	1500	71	35 - 100	
2-Fluorobiphenyl	2060	1200	60	45 - 105	
2,4,6-Tribromophenol	2060	2000	96	35 - 125	
Terphenyl-d14	2060	2500	123	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	388747	6.856	482335	6.976	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	1gb021.D
Sampled:	06/19/13 14:10	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 16:37
Solids:	80.94	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	1630586	8.434	1977928	8.555	
Acenaphthene-d10	880249	10.631	1068606	10.762	
Phenanthrene-d10	1360656	12.506	1699960	12.644	
Chrysene-d12	842885	16.074	971732	16.262	
Perylene-d12	545032	19.015	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	1gb022.D
Sampled:	06/19/13 14:15	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 17:06
Solids:	86.11	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	1	<120	U	110	120	380
108-95-2	Phenol	1	<120	U	88	120	380
111-44-4	Bis(2-chloroethyl)ether	1	<120	U	110	120	380
95-57-8	2-Chlorophenol	1	<120	U	95	120	380
95-48-7	2-Methylphenol	1	<120	U	81	120	380
108-60-1	Bis(2-chloroisopropyl)ether	1	<120	U	95	120	380
98-86-2	Acetophenone	1	<120	U	96	120	380
108-39-4/106-44-5	3 & 4-Methylphenol	1	<230	U	190	230	380
621-64-7	N-Nitroso-di-n-propylamine	1	<120	U	100	120	380
67-72-1	Hexachloroethane	1	<120	U	86	120	380
98-95-3	Nitrobenzene	1	<120	U	92	120	380
78-59-1	Isophorone	1	<120	U	84	120	380
88-75-5	2-Nitrophenol	1	<120	U	91	120	380
105-67-9	2,4-Dimethylphenol	1	<120	U	86	120	380
111-91-1	Bis(2-chloroethoxy)methane	1	<120	U	74	120	380
120-83-2	2,4-Dichlorophenol	1	<120	U	82	120	380
106-47-8	4-Chloroaniline	1	<120	U	110	120	380
87-68-3	Hexachlorobutadiene	1	<120	U	93	120	380
105-60-2	Caprolactam	1	<230	U	120	230	380
59-50-7	4-Chloro-3-methylphenol	1	<120	U	78	120	380
77-47-4	Hexachlorocyclopentadiene	1	<120	U	110	120	380
95-94-3	1,2,4,5-Tetrachlorobenzene	1	<120	UQ	80	120	380
88-06-2	2,4,6-Trichlorophenol	1	<120	U	70	120	380
95-95-4	2,4,5-Trichlorophenol	1	<120	U	67	120	380
92-52-4	1,1'-Biphenyl	1	<120	U	110	120	380
91-58-7	2-Chloronaphthalene	1	<120	U	75	120	380
88-74-4	2-Nitroaniline	1	<120	U	78	120	380
131-11-3	Dimethylphthalate	1	<120	U	72	120	380
606-20-2	2,6-Dinitrotoluene	1	<120	U	80	120	380
99-09-2	3-Nitroaniline	1	<120	U	86	120	380
51-28-5	2,4-Dinitrophenol	1	<350	U	140	350	380
100-02-7	4-Nitrophenol	1	<120	U	95	120	380
132-64-9	Dibenzofuran	1	<120	U	77	120	380

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	1gb022.D
Sampled:	06/19/13 14:15	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 17:06
Solids:	86.11	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	1	<120	U	84	120	380
58-90-2	2,3,4,6-Tetrachlorophenol	1	<230	U	86	230	380
84-66-2	Diethylphthalate	1	<120	U	87	120	380
7005-72-3	4-Chlorophenyl-phenylether	1	<120	U	78	120	380
100-01-6	4-Nitroaniline	1	<120	U	95	120	380
534-52-1	2-Methyl-4,6-dinitrophenol	1	<350	U	150	350	380
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	1	<230	U	160	230	380
101-55-3	4-Bromophenyl-phenylether	1	<120	U	85	120	380
118-74-1	Hexachlorobenzene	1	<120	U	94	120	380
1912-24-9	Atrazine	1	<120	U	86	120	380
87-86-5	Pentachlorophenol	1	<350	U	160	350	380
86-74-8	Carbazole	1	<120	U	79	120	380
84-74-2	Di-n-butylphthalate	1	<120	U	92	120	380
85-68-7	Butylbenzylphthalate	1	<120	U	110	120	380
91-94-1	3,3'-Dichlorobenzidine	1	<120	U	110	120	380
117-81-7	Bis(2-ethylhexyl)phthalate	1	<120	U	99	120	380
117-84-0	Di-n-octylphthalate	1	<120	U	78	120	380

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
000112-84-5	Erucylamide	17.65	1100	J
NA	Tentatively Identified Compounds		0	U
NA	unknown (01)	14.028	210	J
NA	unknown (02)	14.751	160	J
NA	unknown (03)	15.243	400	J
NA	unknown (04)	16.14	280	J
NA	unknown (05)	16.769	320	J
NA	unknown (06)	18.003	550	J
NA	unknown (07)	19.752	380	J

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1940	1800	95	35 - 105	
Phenol-d5	1940	2000	104	40 - 100	*
Nitrobenzene-d5	1940	1800	92	35 - 100	
2-Fluorobiphenyl	1940	1700	89	45 - 105	
2,4,6-Tribromophenol	1940	2100	108	35 - 125	
Terphenyl-d14	1940	2500	128	30 - 125	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	1gb022.D
Sampled:	06/19/13 14:15	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 17:06
Solids:	86.11	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	320660	6.856	482335	6.976	
Naphthalene-d8	1362948	8.434	1977928	8.555	
Acenaphthene-d10	760823	10.631	1068606	10.762	
Phenanthrene-d10	1267824	12.506	1699960	12.644	
Chrysene-d12	790826	16.074	971732	16.262	
Perylene-d12	522481	19.014	611159	19.226	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	1gb023.D
Sampled:	06/19/13 14:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 17:34
Solids:	72.13	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
100-52-7	Benzaldehyde	2	<280	UD	270	280	910
108-95-2	Phenol	2	<280	UD	210	280	910
111-44-4	Bis(2-chloroethyl)ether	2	<280	UD	260	280	910
95-57-8	2-Chlorophenol	2	<280	UD	230	280	910
95-48-7	2-Methylphenol	2	<280	UD	190	280	910
108-60-1	Bis(2-chloroisopropyl)ether	2	<280	UD	230	280	910
98-86-2	Acetophenone	2	<280	UD	230	280	910
108-39-4/106-44-5	3 & 4-Methylphenol	2	<550	UD	440	550	910
621-64-7	N-Nitroso-di-n-propylamine	2	<280	UD	250	280	910
67-72-1	Hexachloroethane	2	<280	UD	210	280	910
98-95-3	Nitrobenzene	2	<280	UD	220	280	910
78-59-1	Isophorone	2	<280	UD	200	280	910
88-75-5	2-Nitrophenol	2	<280	UD	220	280	910
105-67-9	2,4-Dimethylphenol	2	<280	UD	210	280	910
111-91-1	Bis(2-chloroethoxy)methane	2	<280	UD	180	280	910
120-83-2	2,4-Dichlorophenol	2	<280	UD	200	280	910
106-47-8	4-Chloroaniline	2	<280	UD	260	280	910
87-68-3	Hexachlorobutadiene	2	<280	UD	220	280	910
105-60-2	Caprolactam	2	<550	UD	280	550	910
59-50-7	4-Chloro-3-methylphenol	2	<280	UD	190	280	910
77-47-4	Hexachlorocyclopentadiene	2	<280	UD	260	280	910
95-94-3	1,2,4,5-Tetrachlorobenzene	2	<280	UDQ	190	280	910
88-06-2	2,4,6-Trichlorophenol	2	<280	UD	170	280	910
95-95-4	2,4,5-Trichlorophenol	2	<280	UD	160	280	910
92-52-4	1,1'-Biphenyl	2	<280	UD	260	280	910
91-58-7	2-Chloronaphthalene	2	<280	UD	180	280	910
88-74-4	2-Nitroaniline	2	<280	UD	190	280	910
131-11-3	Dimethylphthalate	2	<280	UD	170	280	910
606-20-2	2,6-Dinitrotoluene	2	<280	UD	190	280	910
99-09-2	3-Nitroaniline	2	<280	UD	210	280	910
51-28-5	2,4-Dinitrophenol	2	<830	UD	330	830	910
100-02-7	4-Nitrophenol	2	<280	UD	230	280	910
132-64-9	Dibenzofuran	2	460	JD	180	280	910

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	1gb023.D
Sampled:	06/19/13 14:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 17:34
Solids:	72.13	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Batch:	3F21017	Sequence:	AA24837	Calibration:	1307010
Instrument:	OSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
121-14-2	2,4-Dinitrotoluene	2	<280	UD	200	280	910
58-90-2	2,3,4,6-Tetrachlorophenol	2	<550	UD	210	550	910
84-66-2	Diethylphthalate	2	<280	UD	210	280	910
7005-72-3	4-Chlorophenyl-phenylether	2	<280	UD	190	280	910
100-01-6	4-Nitroaniline	2	<280	UD	230	280	910
534-52-1	2-Methyl-4,6-dinitrophenol	2	<830	UD	360	830	910
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	2	<550	UD	390	550	910
101-55-3	4-Bromophenyl-phenylether	2	<280	UD	200	280	910
118-74-1	Hexachlorobenzene	2	<280	UD	220	280	910
1912-24-9	Atrazine	2	<280	UD	210	280	910
87-86-5	Pentachlorophenol	2	<830	UD	390	830	910
86-74-8	Carbazole	2	<280	UD	190	280	910
84-74-2	Di-n-butylphthalate	2	<280	UD	220	280	910
85-68-7	Butylbenzylphthalate	2	<280	UD	260	280	910
91-94-1	3,3'-Dichlorobenzidine	2	<280	UD	250	280	910
117-81-7	Bis(2-ethylhexyl)phthalate	2	<280	UD	240	280	910
117-84-0	Di-n-octylphthalate	2	<280	UD	190	280	910

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg dry)	Q
069009-90-1	1,1'-Biphenyl, bis(1-methyl...	14.078	2700	JD
004453-90-1	1,4-Methanonaphthalene, 1,4...	9.318	1100	JD
000243-17-4	11H-Benzo[b]fluorene	14.741	520	JD
1000202-15-0	1-Phenyl-4-(3,5-dimethylphe...	14.681	3000	JD
1000197-14-1	4b,8-Dimethyl-2-isopropylph...	13.476	670	JD
206-44-0	Fluoranthene	14.038	830	JD
86-73-7	Fluorene	11.322	430	JD
000496-11-7	Indane	7.086	380	JD
000090-12-0	Naphthalene, 1-methyl-	9.439	530	JD
003674-73-5	Phenanthrene, 2,3,5-trimethyl-	14.399	450	JD
129-00-0	Pyrene	14.329	950	JD
NA	Tentatively Identified Compounds		0	UD
NA	unknown (01)	13.291	430	JD
NA	unknown (02)	13.452	470	JD

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	2310	1300	57	35 - 105	
Phenol-d5	2310	1700	72	40 - 100	
Nitrobenzene-d5	2310	1400	60	35 - 100	

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	1gb023.D
Sampled:	06/19/13 14:30	Prepared:	06/21/13 11:30	Analyzed:	07/07/13 17:34
Solids:	72.13	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Batch: 3F21017 Sequence: AA24837 Calibration: 1307010 Instrument: OSVGCMS1

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	2310	1200	51	45 - 105	
2,4,6-Tribromophenol	2310	1900	81	35 - 125	
Terphenyl-d14	2310	1700	74	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	380027	6.856	482335	6.976	
Naphthalene-d8	1669608	8.434	1977928	8.555	
Acenaphthene-d10	1028879	10.641	1068606	10.762	
Phenanthrene-d10	1794626	12.506	1699960	12.644	
Chrysene-d12	802344	16.074	971732	16.262	
Perylene-d12	306328	19.014	611159	19.226	

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/06/13 20:57	15.00	40.00	
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/06/13 20:57	15.00	40.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/06/13 21:25	15.00	40.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/06/13 21:25	15.00	40.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	07/08/13 01:00	19.00	14.00	07/08/13 12:42	0.00	40.00	*
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	07/08/13 01:00	19.00	14.00	07/08/13 12:42	0.00	40.00	*
TR-2ND-SB07-GW-0613	06/19/13 10:45	06/20/13 09:20	06/24/13 11:05	5.00	7.00	07/07/13 10:29	12.00	40.00	
TR-2ND-SB07-GW-0613	06/19/13 10:45	06/20/13 09:20	06/24/13 11:05	5.00	7.00	07/07/13 10:29	12.00	40.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/06/13 21:54	15.00	40.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/06/13 21:54	15.00	40.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 10:58	15.00	40.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 10:58	15.00	40.00	
TR-2ND-SB06D-0.5-01-0613	06/19/13 11:25	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 18:02	16.00	40.00	
TR-2ND-SB06D-0.5-01-0613	06/19/13 11:25	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 18:02	16.00	40.00	
TR-2ND-SB06D-05-07-0613	06/19/13 11:35	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 14:44	16.00	40.00	
TR-2ND-SB06D-05-07-0613	06/19/13 11:35	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 14:44	16.00	40.00	
TR-2ND-SB06-GW-0613	06/19/13 12:00	06/20/13 09:20	06/24/13 11:05	5.00	7.00	07/07/13 11:26	13.00	40.00	
TR-2ND-SB06-GW-0613	06/19/13 12:00	06/20/13 09:20	06/24/13 11:05	5.00	7.00	07/07/13 11:26	13.00	40.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 18:31	16.00	40.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 18:31	16.00	40.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/08/13 13:10	17.00	40.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 15:13	16.00	40.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 15:13	16.00	40.00	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-2ND-SB04-GW-0613	06/19/13 13:00	06/20/13 09:20	06/24/13 11:05	5.00	7.00	07/07/13 11:54	13.00	40.00	
TR-2ND-SB04-GW-0613	06/19/13 13:00	06/20/13 09:20	06/24/13 11:05	5.00	7.00	07/07/13 11:54	13.00	40.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 18:58	16.00	40.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 18:58	16.00	40.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/08/13 13:39	17.00	40.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 15:41	16.00	40.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 15:41	16.00	40.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 16:09	16.00	40.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 16:09	16.00	40.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 16:37	16.00	40.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 16:37	16.00	40.00	
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 17:06	16.00	40.00	
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 17:06	16.00	40.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 17:34	16.00	40.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/21/13 11:30	2.00	14.00	07/07/13 17:34	16.00	40.00	

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Batch: 3F21017 Batch Matrix: Soil
Preparation: EPA 3550C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F21017-BLK1	1ga005.D	06/21/13 11:30	
Blank	3F21017-BLK1	1ga005.D	06/21/13 11:30	
LCS	3F21017-BS1	1ga006.D	06/21/13 11:30	
TR-5TH-SB05-0.5-01-0613	3F21017-MS1	1ga007.D	06/21/13 11:30	
TR-5TH-SB05-0.5-01-0613	3F21017-MSD1	1ga008.D	06/21/13 11:30	
TR-2ND-SB07-0.5-01-0613	A303499-06	1ga023.D	06/21/13 11:30	
TR-2ND-SB07-0.5-01-0613	A303499-06	1ga023.D	06/21/13 11:30	
TR-2ND-SB07-04-06-0613	A303499-07	1ga024.D	06/21/13 11:30	
TR-2ND-SB07-04-06-0613	A303499-07	1ga024.D	06/21/13 11:30	
TR-2ND-SB06-0.5-01-0613	A303499-09	1ga025.D	06/21/13 11:30	
TR-2ND-SB06-0.5-01-0613	A303499-09	1ga025.D	06/21/13 11:30	
TR-2ND-SB06-05-07-0613	A303499-10	1gb009.D	06/21/13 11:30	
TR-2ND-SB06-05-07-0613	A303499-10	1gb009.D	06/21/13 11:30	
TR-2ND-SB06D-0.5-01-0613	A303499-11	1gb024.D	06/21/13 11:30	
TR-2ND-SB06D-0.5-01-0613	A303499-11	1gb024.D	06/21/13 11:30	
TR-2ND-SB06D-05-07-0613	A303499-12	1gb017.D	06/21/13 11:30	
TR-2ND-SB06D-05-07-0613	A303499-12	1gb017.D	06/21/13 11:30	
TR-2ND-SB04-0.5-01-0613	A303499-14	1gb025.D	06/21/13 11:30	
TR-2ND-SB04-0.5-01-0613	A303499-14	1gb025.D	06/21/13 11:30	
TR-2ND-SB04-0.5-01-0613	A303499-14RE1	1gc014.D	06/21/13 11:30	
TR-2ND-SB04-04-06-0613	A303499-15	1gb018.D	06/21/13 11:30	
TR-2ND-SB04-04-06-0613	A303499-15	1gb018.D	06/21/13 11:30	
TR-2ND-SB05-0.5-01-0613	A303499-17	1gb026.D	06/21/13 11:30	
TR-2ND-SB05-0.5-01-0613	A303499-17	1gb026.D	06/21/13 11:30	
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	1gc015.D	06/21/13 11:30	
TR-2ND-SB05-03-05-0613	A303499-18	1gb019.D	06/21/13 11:30	
TR-2ND-SB05-03-05-0613	A303499-18	1gb019.D	06/21/13 11:30	
TR-2ND-SB03-0.5-01-0613	A303499-19	1gb020.D	06/21/13 11:30	
TR-2ND-SB03-0.5-01-0613	A303499-19	1gb020.D	06/21/13 11:30	
TR-2ND-SB03-04-06-0613	A303499-20	1gb021.D	06/21/13 11:30	
TR-2ND-SB03-04-06-0613	A303499-20	1gb021.D	06/21/13 11:30	
TR-2ND-SB02-0.5-1-0613	A303499-21	1gb022.D	06/21/13 11:30	
TR-2ND-SB02-0.5-1-0613	A303499-21	1gb022.D	06/21/13 11:30	

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F21017 Batch Matrix: Soil

Preparation: EPA 3550C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
TR-2ND-SB02-06-08-0613	A303499-22	1gb023.D	06/21/13 11:30	
TR-2ND-SB02-06-08-0613	A303499-22	1gb023.D	06/21/13 11:30	

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F24010 Batch Matrix: Water

Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F24010-BLK1	1gb005.D	06/24/13 11:05	
Blank	3F24010-BLK1	1gb005.D	06/24/13 11:05	
LCS	3F24010-BS1	1gb006.D	06/24/13 11:05	
LCS Dup	3F24010-BSD1	1gb007.D	06/24/13 11:05	
TR-2ND-SB07-GW-0613	A303499-08	1gb008.D	06/24/13 11:05	
TR-2ND-SB07-GW-0613	A303499-08	1gb008.D	06/24/13 11:05	
TR-2ND-SB06-GW-0613	A303499-13	1gb010.D	06/24/13 11:05	
TR-2ND-SB06-GW-0613	A303499-13	1gb010.D	06/24/13 11:05	
TR-2ND-SB04-GW-0613	A303499-16	1gb011.D	06/24/13 11:05	
TR-2ND-SB04-GW-0613	A303499-16	1gb011.D	06/24/13 11:05	

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3G08001 Batch Matrix: Soil

Preparation: EPA 3550C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3G08001-BLK1	1gc005.D	07/08/13 01:00	
Blank	3G08001-BLK1	1gc005.D	07/08/13 01:00	
LCS	3G08001-BS1	1gc006.D	07/08/13 01:00	
LCS Dup	3G08001-BSD1	1gc007.D	07/08/13 01:00	
TR-2ND-SB07-04-06-0613	A303499-07RE1	1gc013.D	07/08/13 01:00	
TR-2ND-SB07-04-06-0613	A303499-07RE1	1gc013.D	07/08/13 01:00	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F21017-BLK1	File ID:	1ga005.D
Prepared:	06/21/13 11:30	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Analyzed:	07/06/13 12:26	Instrument:	OSVGCMS1		
Batch:	3F21017	Sequence:	AA24827	Calibration:	1307010

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
100-52-7	Benzaldehyde	<100	U
108-95-2	Phenol	<100	U
111-44-4	Bis(2-chloroethyl)ether	<100	U
95-57-8	2-Chlorophenol	<100	U
95-48-7	2-Methylphenol	<100	U
108-60-1	Bis(2-chloroisopropyl)ether	<100	U
98-86-2	Acetophenone	<100	U
108-39-4/106-44-5	3 & 4-Methylphenol	<200	U
621-64-7	N-Nitroso-di-n-propylamine	<100	U
67-72-1	Hexachloroethane	<100	U
98-95-3	Nitrobenzene	<100	U
78-59-1	Isophorone	<100	U
88-75-5	2-Nitrophenol	<100	U
105-67-9	2,4-Dimethylphenol	<100	U
111-91-1	Bis(2-chloroethoxy)methane	<100	U
120-83-2	2,4-Dichlorophenol	<100	U
106-47-8	4-Chloroaniline	<100	U
87-68-3	Hexachlorobutadiene	<100	U
105-60-2	Caprolactam	<200	U
59-50-7	4-Chloro-3-methylphenol	<100	U
77-47-4	Hexachlorocyclopentadiene	<100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	<100	U
88-06-2	2,4,6-Trichlorophenol	<100	U
95-95-4	2,4,5-Trichlorophenol	<100	U
92-52-4	1,1'-Biphenyl	<100	U
91-58-7	2-Chloronaphthalene	<100	U
88-74-4	2-Nitroaniline	<100	U
131-11-3	Dimethylphthalate	<100	U
606-20-2	2,6-Dinitrotoluene	<100	U
99-09-2	3-Nitroaniline	<100	U

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F21017-BLK1	File ID:	1ga005.D
Prepared:	06/21/13 11:30	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Analyzed:	07/06/13 12:26	Instrument:	OSVGCMS1		
Batch:	3F21017	Sequence:	AA24827	Calibration:	1307010

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
51-28-5	2,4-Dinitrophenol	<300	U
100-02-7	4-Nitrophenol	<100	U
132-64-9	Dibenzofuran	<100	U
121-14-2	2,4-Dinitrotoluene	<100	U
58-90-2	2,3,4,6-Tetrachlorophenol	<200	U
84-66-2	Diethylphthalate	<100	U
7005-72-3	4-Chlorophenyl-phenylether	<100	U
100-01-6	4-Nitroaniline	<100	U
534-52-1	2-Methyl-4,6-dinitrophenol	<300	U
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	<200	U
101-55-3	4-Bromophenyl-phenylether	<100	U
118-74-1	Hexachlorobenzene	<100	U
1912-24-9	Atrazine	<100	U
87-86-5	Pentachlorophenol	<300	U
86-74-8	Carbazole	<100	U
84-74-2	Di-n-butylphthalate	<100	U
85-68-7	Butylbenzylphthalate	<100	U
91-94-1	3,3'-Dichlorobenzidine	<100	U
117-81-7	Bis(2-ethylhexyl)phthalate	<100	U
117-84-0	Di-n-octylphthalate	<100	U

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg wet)	Q
NA	Tentatively Identified Compounds		EST. CONC. (ug/kg wet)	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	1670	1100	66	35 - 105	
Phenol-d5	1670	1200	75	40 - 100	
Nitrobenzene-d5	1670	1000	61	35 - 100	
2-Fluorobiphenyl	1670	1200	69	45 - 105	
2,4,6-Tribromophenol	1670	1300	79	35 - 125	
Terphenyl-d14	1670	1800	111	30 - 125	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F21017-BLK1	File ID:	1ga005.D
Prepared:	06/21/13 11:30	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Analyzed:	07/06/13 12:26	Instrument:	OSVGCMS1		
Batch:	3F21017	Sequence:	AA24827	Calibration:	1307010

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	460905	6.886	482335	6.976	
Naphthalene-d8	1940795	8.462	1977928	8.555	
Acenaphthene-d10	1064232	10.669	1068606	10.762	
Phenanthrene-d10	1771186	12.541	1699960	12.644	
Chrysene-d12	1072054	16.118	971732	16.262	
Perylene-d12	810012	19.065	611159	19.226	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F24010-BLK1	File ID:	1gb005.D
Prepared:	06/24/13 11:05	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	07/07/13 09:04	Instrument:	OSVGCMS1		
Batch:	3F24010	Sequence:	AA24837	Calibration:	1307010

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-52-7	Benzaldehyde	<6.0	U
108-95-2	Phenol	<3.0	U
111-44-4	Bis(2-chloroethyl)ether	<6.0	U
95-57-8	2-Chlorophenol	<6.0	U
95-48-7	2-Methylphenol	<3.0	U
108-60-1	Bis(2-chloroisopropyl)ether	<6.0	U
98-86-2	Acetophenone	<3.0	U
108-39-4/106-44-5	3 & 4-Methylphenol	<6.0	U
621-64-7	N-Nitroso-di-n-propylamine	<6.0	U
67-72-1	Hexachloroethane	<3.0	U
98-95-3	Nitrobenzene	<6.0	U
78-59-1	Isophorone	<3.0	U
88-75-5	2-Nitrophenol	<6.0	U
105-67-9	2,4-Dimethylphenol	<6.0	U
111-91-1	Bis(2-chloroethoxy)methane	<6.0	U
120-83-2	2,4-Dichlorophenol	<6.0	U
106-47-8	4-Chloroaniline	<6.0	U
87-68-3	Hexachlorobutadiene	<6.0	U
105-60-2	Caprolactam	<3.0	U
59-50-7	4-Chloro-3-methylphenol	<6.0	U
77-47-4	Hexachlorocyclopentadiene	<6.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	<6.0	U
88-06-2	2,4,6-Trichlorophenol	<6.0	U
95-95-4	2,4,5-Trichlorophenol	<6.0	U
92-52-4	1,1'-Biphenyl	<9.0	U
91-58-7	2-Chloronaphthalene	<3.0	U
88-74-4	2-Nitroaniline	<3.0	U
131-11-3	Dimethylphthalate	<3.0	U
606-20-2	2,6-Dinitrotoluene	<3.0	U
99-09-2	3-Nitroaniline	<3.0	U

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F24010-BLK1	File ID:	1gb005.D
Prepared:	06/24/13 11:05	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	07/07/13 09:04	Instrument:	OSVGCMS1		
Batch:	3F24010	Sequence:	AA24837	Calibration:	1307010

CAS NO.	COMPOUND	CONC. (ug/L)	Q
51-28-5	2,4-Dinitrophenol	<6.0	U
100-02-7	4-Nitrophenol	<3.0	U
132-64-9	Dibenzofuran	<3.0	U
121-14-2	2,4-Dinitrotoluene	<6.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	<6.0	U
84-66-2	Diethylphthalate	<3.0	U
7005-72-3	4-Chlorophenyl-phenylether	<6.0	U
100-01-6	4-Nitroaniline	<3.0	U
534-52-1	2-Methyl-4,6-dinitrophenol	<6.0	U
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	<6.0	U
101-55-3	4-Bromophenyl-phenylether	<6.0	U
118-74-1	Hexachlorobenzene	<3.0	U
1912-24-9	Atrazine	<3.0	U
87-86-5	Pentachlorophenol	<9.0	U
86-74-8	Carbazole	<3.0	U
84-74-2	Di-n-butylphthalate	<3.0	U
85-68-7	Butylbenzylphthalate	<3.0	U
91-94-1	3,3'-Dichlorobenzidine	<6.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	<6.0	U
117-84-0	Di-n-octylphthalate	<6.0	U

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
NA	Tentatively Identified Compounds		EST. CONC. (ug/L)	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	50.0	30	60	20 - 110	
Phenol-d5	50.0	24	49	10 - 115	
Nitrobenzene-d5	50.0	40	81	40 - 110	
2-Fluorobiphenyl	50.0	36	73	50 - 110	
2,4,6-Tribromophenol	50.0	41	82	40 - 125	
Terphenyl-d14	50.0	58	115	50 - 135	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F24010-BLK1	File ID:	1gb005.D
Prepared:	06/24/13 11:05	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	07/07/13 09:04	Instrument:	OSVGCMS1		
Batch:	3F24010	Sequence:	AA24837	Calibration:	1307010

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	377912	6.856	482335	6.976	
Naphthalene-d8	1668128	8.434	1977928	8.555	
Acenaphthene-d10	949407	10.641	1068606	10.762	
Phenanthrene-d10	1554631	12.506	1699960	12.644	
Chrysene-d12	1114395	16.074	971732	16.262	
Perylene-d12	890269	19.023	611159	19.226	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3G08001-BLK1	File ID:	1gc005.D
Prepared:	07/08/13 01:00	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Analyzed:	07/08/13 08:54	Instrument:	OSVGCMS1		
Batch:	3G08001	Sequence:	AA24841	Calibration:	1307010

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
100-52-7	Benzaldehyde	<100	U
108-95-2	Phenol	<100	U
111-44-4	Bis(2-chloroethyl)ether	<100	U
95-57-8	2-Chlorophenol	<100	U
95-48-7	2-Methylphenol	<100	U
108-60-1	Bis(2-chloroisopropyl)ether	<100	U
98-86-2	Acetophenone	<100	U
108-39-4/106-44-5	3 & 4-Methylphenol	<200	U
621-64-7	N-Nitroso-di-n-propylamine	<100	U
67-72-1	Hexachloroethane	<100	U
98-95-3	Nitrobenzene	<100	U
78-59-1	Isophorone	<100	U
88-75-5	2-Nitrophenol	<100	U
105-67-9	2,4-Dimethylphenol	<100	U
111-91-1	Bis(2-chloroethoxy)methane	<100	U
120-83-2	2,4-Dichlorophenol	<100	U
106-47-8	4-Chloroaniline	<100	U
87-68-3	Hexachlorobutadiene	<100	U
105-60-2	Caprolactam	<200	U
59-50-7	4-Chloro-3-methylphenol	<100	U
77-47-4	Hexachlorocyclopentadiene	<100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	<100	U
88-06-2	2,4,6-Trichlorophenol	<100	U
95-95-4	2,4,5-Trichlorophenol	<100	U
92-52-4	1,1'-Biphenyl	<100	U
91-58-7	2-Chloronaphthalene	<100	U
88-74-4	2-Nitroaniline	<100	U
131-11-3	Dimethylphthalate	<100	U
606-20-2	2,6-Dinitrotoluene	<100	U
99-09-2	3-Nitroaniline	<100	U

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3G08001-BLK1	File ID:	1gc005.D
Prepared:	07/08/13 01:00	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Analyzed:	07/08/13 08:54	Instrument:	OSVGCMS1		
Batch:	3G08001	Sequence:	AA24841	Calibration:	1307010

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
51-28-5	2,4-Dinitrophenol	<300	U
100-02-7	4-Nitrophenol	<100	U
132-64-9	Dibenzofuran	<100	U
121-14-2	2,4-Dinitrotoluene	<100	U
58-90-2	2,3,4,6-Tetrachlorophenol	<200	U
84-66-2	Diethylphthalate	<100	U
7005-72-3	4-Chlorophenyl-phenylether	<100	U
100-01-6	4-Nitroaniline	<100	U
534-52-1	2-Methyl-4,6-dinitrophenol	<300	U
86-30-6/122-39-4	N-nitrosodiphenylamine/Diphenylamine	<200	U
101-55-3	4-Bromophenyl-phenylether	<100	U
118-74-1	Hexachlorobenzene	<100	U
1912-24-9	Atrazine	<100	U
87-86-5	Pentachlorophenol	<300	U
86-74-8	Carbazole	<100	U
84-74-2	Di-n-butylphthalate	<100	U
85-68-7	Butylbenzylphthalate	<100	U
91-94-1	3,3'-Dichlorobenzidine	<100	U
117-81-7	Bis(2-ethylhexyl)phthalate	<100	U
117-84-0	Di-n-octylphthalate	<100	U

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/kg wet)	Q
NA	Tentatively Identified Compounds		EST. CONC. (ug/kg wet)	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	1670	940	57	35 - 105	
Phenol-d5	1670	1000	62	40 - 100	
Nitrobenzene-d5	1670	930	56	35 - 100	
2-Fluorobiphenyl	1670	960	58	45 - 105	
2,4,6-Tribromophenol	1670	920	55	35 - 125	
Terphenyl-d14	1670	1700	103	30 - 125	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3G08001-BLK1	File ID:	1gc005.D
Prepared:	07/08/13 01:00	Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL
Analyzed:	07/08/13 08:54	Instrument:	OSVGCMS1		
Batch:	3G08001	Sequence:	AA24841	Calibration:	1307010

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	458108	6.846	482335	6.976	
Naphthalene-d8	1890508	8.415	1977928	8.555	
Acenaphthene-d10	780879	10.622	1068606	10.762	
Phenanthrene-d10	1112885	12.494	1699960	12.644	
Chrysene-d12	637910	16.052	971732	16.262	
Perylene-d12	493160	18.998	611159	19.226	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F21017	Laboratory ID:	3F21017-BS1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
Benzaldehyde	1670	1400	86	45 - 99
Phenol	1670	1400	84	40 - 100
Bis(2-chloroethyl)ether	1670	1400	86	40 - 105
2-Chlorophenol	1670	1500	88	45 - 105
2-Methylphenol	1670	1400	83	40 - 105
Bis(2-chloroisopropyl)ether	1670	1400	83	20 - 115
Acetophenone	1670	1400	81	52 - 86
3 & 4-Methylphenol	1670	1400	83	40 - 105
N-Nitroso-di-n-propylamine	1670	1600	94	40 - 115
Hexachloroethane	1670	1300	77	35 - 110
Nitrobenzene	1670	1400	82	40 - 115
Isophorone	1670	1600	97	45 - 110
2-Nitrophenol	1670	1400	85	40 - 110
2,4-Dimethylphenol	1670	1200	70	30 - 105
Bis(2-chloroethoxy)methane	1670	1400	87	45 - 110
2,4-Dichlorophenol	1670	1500	88	45 - 110
4-Chloroaniline	1670	610	37	10 - 100
Hexachlorobutadiene	1670	1300	79	40 - 115
Caprolactam	1670	2000	119	14 - 125
4-Chloro-3-methylphenol	1670	1500	90	45 - 115
Hexachlorocyclopentadiene	1670	1700	100	10 - 170
1,2,4,5-Tetrachlorobenzene	1670	1400	83 *	59 - 81
2,4,6-Trichlorophenol	1670	1500	90	45 - 110
2,4,5-Trichlorophenol	1670	1500	87	50 - 110
1,1'-Biphenyl	1670	1500	88	52 - 100
2-Chloronaphthalene	1670	1400	84	45 - 105
2-Nitroaniline	1670	1400	86	45 - 120
Dimethylphthalate	1670	1500	90	50 - 110
2,6-Dinitrotoluene	1670	1500	91	50 - 110
3-Nitroaniline	1670	1200	73	25 - 110

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F21017	Laboratory ID:	3F21017-BS1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
2,4-Dinitrophenol	1670	1300	80	15 - 130
4-Nitrophenol	1670	1600	97	15 - 140
Dibenzofuran	1670	1400	84	50 - 105
2,4-Dinitrotoluene	1670	1500	90	50 - 115
2,3,4,6-Tetrachlorophenol	1670	1500	90	18 - 98
Diethylphthalate	1670	1600	95	50 - 115
4-Chlorophenyl-phenylether	1670	1500	90	45 - 110
4-Nitroaniline	1670	1400	83	35 - 115
2-Methyl-4,6-dinitrophenol	1670	1600	96	30 - 135
N-nitrosodiphenylamine/Diphenylamine	1670	1300	76	50 - 115
4-Bromophenyl-phenylether	1670	1400	86	45 - 115
Hexachlorobenzene	1670	1500	90	45 - 120
Atrazine	1670	1700	101	45 - 120
Pentachlorophenol	1670	1400	87	25 - 120
Carbazole	1670	1500	93	45 - 115
Di-n-butylphthalate	1670	1800	109	55 - 110
Butylbenzylphthalate	1670	1800	107	50 - 125
3,3'-Dichlorobenzidine	1670	1000	61	10 - 130
Bis(2-ethylhexyl)phthalate	1670	1700	102	45 - 125
Di-n-octylphthalate	1670	1700	103	40 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F24010	Laboratory ID:	3F24010-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzaldehyde	50.0	37	75	43 - 87
Phenol	50.0	18	35	0 - 115
Bis(2-chloroethyl)ether	50.0	39	78	35 - 110
2-Chlorophenol	50.0	37	74	35 - 105
2-Methylphenol	50.0	33	65	40 - 110
Bis(2-chloroisopropyl)ether	50.0	35	71	25 - 130
Acetophenone	50.0	35	69	41 - 92
3 & 4-Methylphenol	50.0	30	61	30 - 110
N-Nitroso-di-n-propylamine	50.0	42	85	35 - 130
Hexachloroethane	50.0	26	52	30 - 100
Nitrobenzene	50.0	37	73	45 - 110
Isophorone	50.0	47	93	50 - 110
2-Nitrophenol	50.0	37	75	40 - 115
2,4-Dimethylphenol	50.0	38	77	30 - 110
Bis(2-chloroethoxy)methane	50.0	38	77	45 - 105
2,4-Dichlorophenol	50.0	38	76	50 - 105
4-Chloroaniline	50.0	32	64	15 - 110
Hexachlorobutadiene	50.0	24	48	25 - 105
Caprolactam	50.0	18	36	10 - 51
4-Chloro-3-methylphenol	50.0	44	88	45 - 110
Hexachlorocyclopentadiene	50.0	24	49	10 - 117
1,2,4,5-Tetrachlorobenzene	50.0	20	40	24 - 69
2,4,6-Trichlorophenol	50.0	43	86	50 - 115
2,4,5-Trichlorophenol	50.0	40	81	50 - 110
1,1'-Biphenyl	50.0	27	55	46 - 83
2-Chloronaphthalene	50.0	30	61	50 - 105
2-Nitroaniline	50.0	45	91	50 - 115
Dimethylphthalate	50.0	30	60	25 - 125
2,6-Dinitrotoluene	50.0	47	93	50 - 115
3-Nitroaniline	50.0	45	90	20 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F24010	Laboratory ID:	3F24010-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
2,4-Dinitrophenol	50.0	39	78	15 - 140
4-Nitrophenol	50.0	26	51	0 - 125
Dibenzofuran	50.0	36	73	55 - 105
2,4-Dinitrotoluene	50.0	47	95	50 - 120
2,3,4,6-Tetrachlorophenol	50.0	46	93	61 - 94
Diethylphthalate	50.0	45	90	40 - 120
4-Chlorophenyl-phenylether	50.0	39	78	50 - 110
4-Nitroaniline	50.0	47	95	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	48	95	40 - 130
N-nitrosodiphenylamine/Diphenylamine	50.0	39	78	50 - 110
4-Bromophenyl-phenylether	50.0	39	78	50 - 115
Hexachlorobenzene	50.0	49	99	50 - 110
Atrazine	50.0	57	113 *	47 - 101
Pentachlorophenol	50.0	47	94	40 - 115
Carbazole	50.0	53	106	50 - 115
Di-n-butylphthalate	50.0	52	105	55 - 115
Butylbenzylphthalate	50.0	50	100	45 - 115
3,3'-Dichlorobenzidine	50.0	48	96	20 - 110
Bis(2-ethylhexyl)phthalate	50.0	57	113	40 - 125
Di-n-octylphthalate	50.0	56	112	35 - 135

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzaldehyde	50.0	38	76	2	30	43 - 87
Phenol	50.0	18	36	2	30	0 - 115
Bis(2-chloroethyl)ether	50.0	40	81	3	30	35 - 110
2-Chlorophenol	50.0	38	76	3	30	35 - 105
2-Methylphenol	50.0	34	68	4	30	40 - 110
Bis(2-chloroisopropyl)ether	50.0	37	74	4	30	25 - 130
Acetophenone	50.0	36	72	4	30	41 - 92

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F24010	Laboratory ID:	3F24010-BSD1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
3 & 4-Methylphenol	50.0	31	62	3	30	30 - 110
N-Nitroso-di-n-propylamine	50.0	45	89	6	30	35 - 130
Hexachloroethane	50.0	26	52	0.9	30	30 - 100
Nitrobenzene	50.0	36	73	0.7	30	45 - 110
Isophorone	50.0	46	93	0.7	30	50 - 110
2-Nitrophenol	50.0	38	77	3	30	40 - 115
2,4-Dimethylphenol	50.0	40	79	3	30	30 - 110
Bis(2-chloroethoxy)methane	50.0	40	81	5	30	45 - 105
2,4-Dichlorophenol	50.0	39	79	4	30	50 - 105
4-Chloroaniline	50.0	33	65	2	30	15 - 110
Hexachlorobutadiene	50.0	25	50	3	30	25 - 105
Caprolactam	50.0	17	34	5	30	10 - 51
4-Chloro-3-methylphenol	50.0	43	85	3	30	45 - 110
Hexachlorocyclopentadiene	50.0	25	51	4	30	10 - 117
1,2,4,5-Tetrachlorobenzene	50.0	20	41	2	30	24 - 69
2,4,6-Trichlorophenol	50.0	41	82	4	30	50 - 115
2,4,5-Trichlorophenol	50.0	41	81	0.6	30	50 - 110
1,1'-Biphenyl	50.0	27	54	0.6	30	46 - 83
2-Chloronaphthalene	50.0	30	59	2	30	50 - 105
2-Nitroaniline	50.0	43	86	6	30	50 - 115
Dimethylphthalate	50.0	28	57	6	30	25 - 125
2,6-Dinitrotoluene	50.0	44	89	5	30	50 - 115
3-Nitroaniline	50.0	41	83	8	30	20 - 125
2,4-Dinitrophenol	50.0	40	81	4	30	15 - 140
4-Nitrophenol	50.0	25	50	3	30	0 - 125
Dibenzofuran	50.0	35	70	4	30	55 - 105
2,4-Dinitrotoluene	50.0	45	90	5	30	50 - 120
2,3,4,6-Tetrachlorophenol	50.0	44	88	5	30	61 - 94
Diethylphthalate	50.0	42	84	8	30	40 - 120
4-Chlorophenyl-phenylether	50.0	38	77	2	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F24010	Laboratory ID:	3F24010-BSD1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Nitroaniline	50.0	45	91	5	30	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	48	96	0.4	30	40 - 130
N-nitrosodiphenylamine/Diphenylam	50.0	38	75	4	30	50 - 110
4-Bromophenyl-phenylether	50.0	37	74	5	30	50 - 115
Hexachlorobenzene	50.0	45	89	10	30	50 - 110
Atrazine	50.0	56	112 *	1	30	47 - 101
Pentachlorophenol	50.0	47	94	0.3	30	40 - 115
Carbazole	50.0	50	101	5	30	50 - 115
Di-n-butylphthalate	50.0	50	100	4	30	55 - 115
Butylbenzylphthalate	50.0	49	97	3	30	45 - 115
3,3'-Dichlorobenzidine	50.0	45	90	5	30	20 - 110
Bis(2-ethylhexyl)phthalate	50.0	53	106	6	30	40 - 125
Di-n-octylphthalate	50.0	53	107	5	30	35 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3G08001	Laboratory ID:	3G08001-BS1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
Benzaldehyde	1670	1500	90	45 - 99
Phenol	1670	1300	81	40 - 100
Bis(2-chloroethyl)ether	1670	1400	82	40 - 105
2-Chlorophenol	1670	1400	84	45 - 105
2-Methylphenol	1670	1300	79	40 - 105
Bis(2-chloroisopropyl)ether	1670	1300	79	20 - 115
Acetophenone	1670	1400	81	52 - 86
3 & 4-Methylphenol	1670	1300	81	40 - 105
N-Nitroso-di-n-propylamine	1670	1400	87	40 - 115
Hexachloroethane	1670	1200	74	35 - 110
Nitrobenzene	1670	1300	79	40 - 115
Isophorone	1670	1500	91	45 - 110
2-Nitrophenol	1670	1400	84	40 - 110
2,4-Dimethylphenol	1670	1200	72	30 - 105
Bis(2-chloroethoxy)methane	1670	1400	83	45 - 110
2,4-Dichlorophenol	1670	1400	83	45 - 110
4-Chloroaniline	1670	960	58	10 - 100
Hexachlorobutadiene	1670	1300	75	40 - 115
Caprolactam	1670	1900	114	14 - 125
4-Chloro-3-methylphenol	1670	1400	84	45 - 115
Hexachlorocyclopentadiene	1670	1600	96	10 - 170
1,2,4,5-Tetrachlorobenzene	1670	1400	87 *	59 - 81
2,4,6-Trichlorophenol	1670	1400	84	45 - 110
2,4,5-Trichlorophenol	1670	1400	82	50 - 110
1,1'-Biphenyl	1670	1400	87	52 - 100
2-Chloronaphthalene	1670	1300	77	45 - 105
2-Nitroaniline	1670	1400	82	45 - 120
Dimethylphthalate	1670	1400	84	50 - 110
2,6-Dinitrotoluene	1670	1400	83	50 - 110
3-Nitroaniline	1670	1200	72	25 - 110

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3G08001	Laboratory ID:	3G08001-BS1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
2,4-Dinitrophenol	1670	910	55	15 - 130
4-Nitrophenol	1670	1500	87	15 - 140
Dibenzofuran	1670	1300	79	50 - 105
2,4-Dinitrotoluene	1670	1300	79	50 - 115
2,3,4,6-Tetrachlorophenol	1670	1500	92	18 - 98
Diethylphthalate	1670	1500	87	50 - 115
4-Chlorophenyl-phenylether	1670	1400	85	45 - 110
4-Nitroaniline	1670	1300	75	35 - 115
2-Methyl-4,6-dinitrophenol	1670	1400	85	30 - 135
N-nitrosodiphenylamine/Diphenylamine	1670	1200	72	50 - 115
4-Bromophenyl-phenylether	1670	1300	76	45 - 115
Hexachlorobenzene	1670	1400	87	45 - 120
Atrazine	1670	1700	103	45 - 120
Pentachlorophenol	1670	1300	79	25 - 120
Carbazole	1670	1400	87	45 - 115
Di-n-butylphthalate	1670	1600	94	55 - 110
Butylbenzylphthalate	1670	1600	98	50 - 125
3,3'-Dichlorobenzidine	1670	1300	75	10 - 130
Bis(2-ethylhexyl)phthalate	1670	1600	95	45 - 125
Di-n-octylphthalate	1670	1600	98	40 - 130

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzaldehyde	1670	1700	101 *	11	30	45 - 99
Phenol	1670	1500	89	10	30	40 - 100
Bis(2-chloroethyl)ether	1670	1500	91	11	30	40 - 105
2-Chlorophenol	1670	1600	95	12	30	45 - 105
2-Methylphenol	1670	1400	87	10	30	40 - 105
Bis(2-chloroisopropyl)ether	1670	1400	87	10	30	20 - 115
Acetophenone	1670	1500	90 *	10	30	52 - 86

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3G08001	Laboratory ID:	3G08001-BSD1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
3 & 4-Methylphenol	1670	1500	90		12	30	40 - 105
N-Nitroso-di-n-propylamine	1670	1600	96		10	30	40 - 115
Hexachloroethane	1670	1400	81		10	30	35 - 110
Nitrobenzene	1670	1400	85		7	30	40 - 115
Isophorone	1670	1700	99		8	30	45 - 110
2-Nitrophenol	1670	1500	93		10	30	40 - 110
2,4-Dimethylphenol	1670	1400	82		13	30	30 - 105
Bis(2-chloroethoxy)methane	1670	1500	90		9	30	45 - 110
2,4-Dichlorophenol	1670	1500	91		9	30	45 - 110
4-Chloroaniline	1670	1100	67		16	30	10 - 100
Hexachlorobutadiene	1670	1400	82		9	30	40 - 115
Caprolactam	1670	2000	117		2	30	14 - 125
4-Chloro-3-methylphenol	1670	1500	92		9	30	45 - 115
Hexachlorocyclopentadiene	1670	1800	106		10	30	10 - 170
1,2,4,5-Tetrachlorobenzene	1670	1600	94	*	8	30	59 - 81
2,4,6-Trichlorophenol	1670	1600	94		10	30	45 - 110
2,4,5-Trichlorophenol	1670	1500	87		6	30	50 - 110
1,1'-Biphenyl	1670	1600	95		9	30	52 - 100
2-Chloronaphthalene	1670	1400	84		9	30	45 - 105
2-Nitroaniline	1670	1500	89		8	30	45 - 120
Dimethylphthalate	1670	1500	91		8	30	50 - 110
2,6-Dinitrotoluene	1670	1400	86		4	30	50 - 110
3-Nitroaniline	1670	1300	75		5	30	25 - 110
2,4-Dinitrophenol	1670	890	54		2	30	15 - 130
4-Nitrophenol	1670	1500	89		2	30	15 - 140
Dibenzofuran	1670	1400	86		8	30	50 - 105
2,4-Dinitrotoluene	1670	1300	81		2	30	50 - 115
2,3,4,6-Tetrachlorophenol	1670	1600	97		5	30	18 - 98
Diethylphthalate	1670	1500	90		4	30	50 - 115
4-Chlorophenyl-phenylether	1670	1500	90		5	30	45 - 110

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3G08001	Laboratory ID:	3G08001-BSD1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Nitroaniline	1670	1300	75	0.5	30	35 - 115
2-Methyl-4,6-dinitrophenol	1670	1400	83	2	30	30 - 135
N-nitrosodiphenylamine/Diphenylam	1670	1200	74	3	30	50 - 115
4-Bromophenyl-phenylether	1670	1400	82	8	30	45 - 115
Hexachlorobenzene	1670	1600	94	8	30	45 - 120
Atrazine	1670	1800	107	3	30	45 - 120
Pentachlorophenol	1670	1400	83	6	30	25 - 120
Carbazole	1670	1400	86	0.4	30	45 - 115
Di-n-butylphthalate	1670	1700	99	6	30	55 - 110
Butylbenzylphthalate	1670	1600	97	0.6	30	50 - 125
3,3'-Dichlorobenzidine	1670	1400	84	11	30	10 - 130
Bis(2-ethylhexyl)phthalate	1670	1700	101	7	30	45 - 125
Di-n-octylphthalate	1670	1700	104	6	30	40 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

TR-5TH-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F21017	Laboratory ID:	3F21017-MS1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Source Sample Name: TR-5TH-SB05-0.5-01-0613

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
Benzaldehyde	1900	ND	1200	62	45 - 99
Phenol	1900	ND	1200	65	40 - 100
Bis(2-chloroethyl)ether	1900	ND	1100	60	40 - 105
2-Chlorophenol	1900	ND	1100	60	45 - 105
2-Methylphenol	1900	ND	1200	65	40 - 105
Bis(2-chloroisopropyl)ether	1900	ND	1100	58	20 - 115
Acetophenone	1900	ND	1100	58	52 - 86
3 & 4-Methylphenol	1900	ND	1300	66	40 - 105
N-Nitroso-di-n-propylamine	1900	ND	1300	69	40 - 115
Hexachloroethane	1900	ND	930	49	35 - 110
Nitrobenzene	1900	ND	1100	59	40 - 115
Isophorone	1900	ND	1500	79	45 - 110
2-Nitrophenol	1900	ND	1200	62	40 - 110
2,4-Dimethylphenol	1900	ND	1300	71	30 - 105
Bis(2-chloroethoxy)methane	1900	ND	1200	64	45 - 110
2,4-Dichlorophenol	1900	ND	1400	74	45 - 110
4-Chloroaniline	1900	ND	1000	53	10 - 100
Hexachlorobutadiene	1900	ND	980	52	40 - 115
Caprolactam	1900	ND	2600	135 *	14 - 125
4-Chloro-3-methylphenol	1900	ND	1800	97	45 - 115
Hexachlorocyclopentadiene	1900	ND	1200	65	10 - 170
1,2,4,5-Tetrachlorobenzene	1900	ND	1300	68	59 - 81
2,4,6-Trichlorophenol	1900	ND	1700	89	45 - 110
2,4,5-Trichlorophenol	1900	ND	1700	91	50 - 110
1,1'-Biphenyl	1900	ND	1400	75	52 - 100
2-Chloronaphthalene	1900	ND	1300	68	45 - 105
2-Nitroaniline	1900	ND	1700	89	45 - 120
Dimethylphthalate	1900	ND	1800	96	50 - 110
2,6-Dinitrotoluene	1900	ND	1800	94	50 - 110
3-Nitroaniline	1900	ND	1600	86	25 - 110
2,4-Dinitrophenol	1900	ND	1600	84	15 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

TR-5TH-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F21017	Laboratory ID:	3F21017-MS1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Source Sample Name: TR-5TH-SB05-0.5-01-0613

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
4-Nitrophenol	1900	ND	2100	112	15 - 140
Dibenzofuran	1900	ND	1500	81	50 - 105
2,4-Dinitrotoluene	1900	ND	1900	98	50 - 115
2,3,4,6-Tetrachlorophenol	1900	ND	2100	111 *	18 - 98
Diethylphthalate	1900	ND	2000	104	50 - 115
4-Chlorophenyl-phenylether	1900	ND	1700	89	45 - 110
4-Nitroaniline	1900	ND	1800	97	35 - 115
2-Methyl-4,6-dinitrophenol	1900	ND	2100	109	30 - 135
N-nitrosodiphenylamine/Diphenylam	1900	ND	1500	81	50 - 115
4-Bromophenyl-phenylether	1900	ND	1600	83	45 - 115
Hexachlorobenzene	1900	ND	1700	90	45 - 120
Atrazine	1900	ND	2300	123 *	45 - 120
Pentachlorophenol	1900	ND	2000	104	25 - 120
Carbazole	1900	ND	1900	102	45 - 115
Di-n-butylphthalate	1900	ND	2200	117 *	55 - 110
Butylbenzylphthalate	1900	ND	2300	123	50 - 125
3,3'-Dichlorobenzidine	1900	ND	1600	86	10 - 130
Bis(2-ethylhexyl)phthalate	1900	ND	2200	114	45 - 125
Di-n-octylphthalate	1900	ND	2200	114	40 - 130

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzaldehyde	1900	1200	65	5	30	45 - 99
Phenol	1900	1300	70	8	30	40 - 100
Bis(2-chloroethyl)ether	1900	1100	60	0.2	30	40 - 105
2-Chlorophenol	1900	1300	66	9	30	45 - 105
2-Methylphenol	1900	1300	71	10	30	40 - 105
Bis(2-chloroisopropyl)ether	1900	1000	54	7	30	20 - 115
Acetophenone	1900	1200	64	9	30	52 - 86
3 & 4-Methylphenol	1900	1400	75	12	30	40 - 105
N-Nitroso-di-n-propylamine	1900	1300	70	1	30	40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

TR-5TH-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F21017	Laboratory ID:	3F21017-MSD1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Source Sample Name: TR-5TH-SB05-0.5-01-0613

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachloroethane	1900	810	43	13	30	35 - 110
Nitrobenzene	1900	1100	59	1	30	40 - 115
Isophorone	1900	1500	81	3	30	45 - 110
2-Nitrophenol	1900	1200	65	5	30	40 - 110
2,4-Dimethylphenol	1900	1400	75	5	30	30 - 105
Bis(2-chloroethoxy)methane	1900	1300	67	5	30	45 - 110
2,4-Dichlorophenol	1900	1500	80	7	30	45 - 110
4-Chloroaniline	1900	1000	55	4	30	10 - 100
Hexachlorobutadiene	1900	900	47	9	30	40 - 115
Caprolactam	1900	2700	140 *	3	30	14 - 125
4-Chloro-3-methylphenol	1900	1900	101	5	30	45 - 115
Hexachlorocyclopentadiene	1900	1100	60	7	30	10 - 170
1,2,4,5-Tetrachlorobenzene	1900	1400	72	6	30	59 - 81
2,4,6-Trichlorophenol	1900	1900	100	11	30	45 - 110
2,4,5-Trichlorophenol	1900	1800	96	5	30	50 - 110
1,1'-Biphenyl	1900	1500	80	7	30	52 - 100
2-Chloronaphthalene	1900	1300	70	3	30	45 - 105
2-Nitroaniline	1900	1700	92	3	30	45 - 120
Dimethylphthalate	1900	1900	102	6	30	50 - 110
2,6-Dinitrotoluene	1900	1900	101	8	30	50 - 110
3-Nitroaniline	1900	1700	88	2	30	25 - 110
2,4-Dinitrophenol	1900	1600	85	2	30	15 - 130
4-Nitrophenol	1900	2000	107	5	30	15 - 140
Dibenzofuran	1900	1600	85	5	30	50 - 105
2,4-Dinitrotoluene	1900	1900	101	2	30	50 - 115
2,3,4,6-Tetrachlorophenol	1900	2100	112 *	0.7	30	18 - 98
Diethylphthalate	1900	2000	104	0.9	30	50 - 115
4-Chlorophenyl-phenylether	1900	1800	93	4	30	45 - 110
4-Nitroaniline	1900	1800	96	2	30	35 - 115
2-Methyl-4,6-dinitrophenol	1900	2100	108	0.6	30	30 - 135
N-nitrosodiphenylamine/Diphenylam	1900	1600	84	4	30	50 - 115
4-Bromophenyl-phenylether	1900	1800	92	10	30	45 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

TR-5TH-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F21017	Laboratory ID:	3F21017-MSD1
Preparation:	EPA 3550C_MS	Initial/Final:	30 g / 1 mL

Source Sample Name: TR-5TH-SB05-0.5-01-0613

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene	1900	1700	91	2	30	45 - 120
Atrazine	1900	2200	114	7	30	45 - 120
Pentachlorophenol	1900	2000	106	2	30	25 - 120
Carbazole	1900	1900	98	3	30	45 - 115
Di-n-butylphthalate	1900	2100	109	7	30	55 - 110
Butylbenzylphthalate	1900	2300	120	3	30	50 - 125
3,3'-Dichlorobenzidine	1900	1600	86	0.4	30	10 - 130
Bis(2-ethylhexyl)phthalate	1900	2100	109	4	30	45 - 125
Di-n-octylphthalate	1900	2200	117	2	30	40 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24784	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Secondary Cal Check (AA24784-SCV1)			Lab File ID: 1g2010.D		Analyzed: 07/02/13 12:57			
2-Fluorophenol	50.0	97	70 - 130	5.397	5.39075	0.0063	+/-0.5	
Phenol-d5	50.0	100	70 - 130	6.486	6.48475	0.0012	+/-0.5	
Nitrobenzene-d5	50.0	98	70 - 130	7.656	7.64725	0.0088	+/-0.5	
2-Fluorobiphenyl	50.0	100	70 - 130	9.886	9.884	0.0020	+/-0.5	
2,4,6-Tribromophenol	50.0	98	70 - 130	11.754	11.7515	0.0025	+/-0.5	
Terphenyl-d14	50.0	92	70 - 130	14.61	14.6125	-0.0025	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24827	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24827-CCV1)			Lab File ID: 1ga002.D		Analyzed: 07/06/13 11:01			
2-Fluorophenol	50.0	102	80 - 120	5.317	5.39075	-0.0737	+/-0.5	
Phenol-d5	50.0	106	80 - 120	6.416	6.48475	-0.0687	+/-0.5	
Nitrobenzene-d5	50.0	100	80 - 120	7.566	7.64725	-0.0812	+/-0.5	
2-Fluorobiphenyl	50.0	98	80 - 120	9.803	9.884	-0.0810	+/-0.5	
2,4,6-Tribromophenol	50.0	105	80 - 120	11.664	11.7515	-0.0875	+/-0.5	
Terphenyl-d14	50.0	104	80 - 120	14.52	14.6125	-0.0925	+/-0.5	
Instrument RL Check (AA24827-CRL1)			Lab File ID: 1ga004.D		Analyzed: 07/06/13 11:58			
2-Fluorophenol	10.0	96	0 - 200	5.307	5.39075	-0.0837	+/-0.5	
Phenol-d5	10.0	93	0 - 200	6.396	6.48475	-0.0888	+/-0.5	
Nitrobenzene-d5	10.0	95	0 - 200	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	10.0	88	0 - 200	9.793	9.884	-0.0910	+/-0.5	
2,4,6-Tribromophenol	10.0	91	0 - 200	11.654	11.7515	-0.0975	+/-0.5	
Terphenyl-d14	10.0	98	0 - 200	14.51	14.6125	-0.1025	+/-0.5	
Blank (3F21017-BLK1)			Lab File ID: 1ga005.D		Analyzed: 07/06/13 12:26			
2-Fluorophenol	1670	66	35 - 105	5.307	5.39075	-0.0837	+/-0.5	
Phenol-d5	1670	75	40 - 100	6.396	6.48475	-0.0888	+/-0.5	
Nitrobenzene-d5	1670	61	35 - 100	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	1670	69	45 - 105	9.793	9.884	-0.0910	+/-0.5	
2,4,6-Tribromophenol	1670	79	35 - 125	11.654	11.7515	-0.0975	+/-0.5	
Terphenyl-d14	1670	111	30 - 125	14.52	14.6125	-0.0925	+/-0.5	
LCS (3F21017-BS1)			Lab File ID: 1ga006.D		Analyzed: 07/06/13 12:55			
2-Fluorophenol	1670	84	35 - 105	5.317	5.39075	-0.0737	+/-0.5	
Phenol-d5	1670	90	40 - 100	6.406	6.48475	-0.0788	+/-0.5	
Nitrobenzene-d5	1670	82	35 - 100	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	1670	87	45 - 105	9.793	9.884	-0.0910	+/-0.5	
2,4,6-Tribromophenol	1670	101	35 - 125	11.664	11.7515	-0.0875	+/-0.5	
Terphenyl-d14	1670	117	30 - 125	14.52	14.6125	-0.0925	+/-0.5	
Matrix Spike (3F21017-MS1)			Lab File ID: 1ga007.D		Analyzed: 07/06/13 13:23			
2-Fluorophenol	1900	51	35 - 105	5.317	5.39075	-0.0737	+/-0.5	
Phenol-d5	1900	59	40 - 100	6.406	6.48475	-0.0788	+/-0.5	
Nitrobenzene-d5	1900	54	35 - 100	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	1900	58	45 - 105	9.793	9.884	-0.0910	+/-0.5	
2,4,6-Tribromophenol	1900	96	35 - 125	11.654	11.7515	-0.0975	+/-0.5	
Terphenyl-d14	1900	108	30 - 125	14.52	14.6125	-0.0925	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24827	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (3F21017-MSD1)			Lab File ID: 1ga008.D		Analyzed: 07/06/13 13:51			
2-Fluorophenol	1900	57	35 - 105	5.317	5.39075	-0.0737	+/-0.5	
Phenol-d5	1900	66	40 - 100	6.406	6.48475	-0.0788	+/-0.5	
Nitrobenzene-d5	1900	54	35 - 100	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	1900	65	45 - 105	9.793	9.884	-0.0910	+/-0.5	
2,4,6-Tribromophenol	1900	105	35 - 125	11.664	11.7515	-0.0875	+/-0.5	
Terphenyl-d14	1900	110	30 - 125	14.52	14.6125	-0.0925	+/-0.5	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 1ga023.D		Analyzed: 07/06/13 20:57			
2-Fluorophenol	1970	69	35 - 105	5.307	5.39075	-0.0837	+/-0.5	
Phenol-d5	1970	79	40 - 100	6.396	6.48475	-0.0888	+/-0.5	
Nitrobenzene-d5	1970	65	35 - 100	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	1970	68	45 - 105	9.793	9.884	-0.0910	+/-0.5	
2,4,6-Tribromophenol	1970	105	35 - 125	11.654	11.7515	-0.0975	+/-0.5	
Terphenyl-d14	1970	133	30 - 125	14.52	14.6125	-0.0925	+/-0.5	*
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 1ga024.D		Analyzed: 07/06/13 21:25			
2-Fluorophenol	2070	72	35 - 105	5.307	5.39075	-0.0837	+/-0.5	
Phenol-d5	2070	83	40 - 100	6.396	6.48475	-0.0888	+/-0.5	
Nitrobenzene-d5	2070	66	35 - 100	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	2070	44	45 - 105	9.793	9.884	-0.0910	+/-0.5	*
2,4,6-Tribromophenol	2070	72	35 - 125	11.654	11.7515	-0.0975	+/-0.5	
Terphenyl-d14	2070	92	30 - 125	14.52	14.6125	-0.0925	+/-0.5	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 1ga025.D		Analyzed: 07/06/13 21:54			
2-Fluorophenol	1980	60	35 - 105	5.307	5.39075	-0.0837	+/-0.5	
Phenol-d5	1980	68	40 - 100	6.396	6.48475	-0.0888	+/-0.5	
Nitrobenzene-d5	1980	54	35 - 100	7.556	7.64725	-0.0912	+/-0.5	
2-Fluorobiphenyl	1980	50	45 - 105	9.793	9.884	-0.0910	+/-0.5	
2,4,6-Tribromophenol	1980	91	35 - 125	11.654	11.7515	-0.0975	+/-0.5	
Terphenyl-d14	1980	102	30 - 125	14.52	14.6125	-0.0925	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24837-CCV1)			Lab File ID: 1gb002.D		Analyzed: 07/07/13 07:39			
2-Fluorophenol	50.0	100	80 - 120	5.287	5.39075	-0.1038	+/-0.5	
2-Fluorophenol	50.0	100	80 - 120	5.287	5.39075	-0.1038	+/-0.5	
Phenol-d5	50.0	104	80 - 120	6.386	6.48475	-0.0987	+/-0.5	
Phenol-d5	50.0	104	80 - 120	6.386	6.48475	-0.0987	+/-0.5	
Nitrobenzene-d5	50.0	87	80 - 120	7.546	7.64725	-0.1012	+/-0.5	
Nitrobenzene-d5	50.0	87	80 - 120	7.546	7.64725	-0.1012	+/-0.5	
2-Fluorobiphenyl	50.0	98	80 - 120	9.775	9.884	-0.1090	+/-0.5	
2-Fluorobiphenyl	50.0	98	80 - 120	9.775	9.884	-0.1090	+/-0.5	
2,4,6-Tribromophenol	50.0	114	80 - 120	11.634	11.7515	-0.1175	+/-0.5	
2,4,6-Tribromophenol	50.0	114	80 - 120	11.634	11.7515	-0.1175	+/-0.5	
Terphenyl-d14	50.0	119	80 - 120	14.5	14.6125	-0.1125	+/-0.5	
Terphenyl-d14	50.0	119	80 - 120	14.5	14.6125	-0.1125	+/-0.5	
Instrument RL Check (AA24837-CRL1)			Lab File ID: 1gb004.D		Analyzed: 07/07/13 08:36			
2-Fluorophenol	10.0	95	50 - 150	5.277	5.39075	-0.1138	+/-0.5	
2-Fluorophenol	10.0	95	50 - 150	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	10.0	94	50 - 150	6.376	6.48475	-0.1088	+/-0.5	
Phenol-d5	10.0	94	50 - 150	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	10.0	98	50 - 150	7.526	7.64725	-0.1213	+/-0.5	
Nitrobenzene-d5	10.0	98	50 - 150	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	10.0	88	50 - 150	9.765	9.884	-0.1190	+/-0.5	
2-Fluorobiphenyl	10.0	88	50 - 150	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	10.0	91	50 - 150	11.624	11.7515	-0.1275	+/-0.5	
2,4,6-Tribromophenol	10.0	91	50 - 150	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	10.0	102	50 - 150	14.49	14.6125	-0.1225	+/-0.5	
Terphenyl-d14	10.0	102	50 - 150	14.49	14.6125	-0.1225	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Blank (3F24010-BLK1)			Lab File ID: 1gb005.D		Analyzed: 07/07/13 09:04			
2-Fluorophenol	50.0	60	20 - 110	5.277	5.39075	-0.1138	+/-0.5	
2-Fluorophenol	50.0	60	20 - 110	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	50.0	49	10 - 115	6.376	6.48475	-0.1088	+/-0.5	
Phenol-d5	50.0	49	10 - 115	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	50.0	81	40 - 110	7.526	7.64725	-0.1213	+/-0.5	
Nitrobenzene-d5	50.0	81	40 - 110	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	50.0	73	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2-Fluorobiphenyl	50.0	73	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	50.0	82	40 - 125	11.624	11.7515	-0.1275	+/-0.5	
2,4,6-Tribromophenol	50.0	82	40 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	50.0	115	50 - 135	14.49	14.6125	-0.1225	+/-0.5	
Terphenyl-d14	50.0	115	50 - 135	14.49	14.6125	-0.1225	+/-0.5	
LCS (3F24010-BS1)			Lab File ID: 1gb006.D		Analyzed: 07/07/13 09:32			
2-Fluorophenol	50.0	48	20 - 110	5.287	5.39075	-0.1038	+/-0.5	
2-Fluorophenol	50.0	48	20 - 110	5.287	5.39075	-0.1038	+/-0.5	
Phenol-d5	50.0	33	10 - 115	6.376	6.48475	-0.1088	+/-0.5	
Phenol-d5	50.0	33	10 - 115	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	50.0	74	40 - 110	7.526	7.64725	-0.1213	+/-0.5	
Nitrobenzene-d5	50.0	74	40 - 110	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	50.0	72	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2-Fluorobiphenyl	50.0	72	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	50.0	95	40 - 125	11.624	11.7515	-0.1275	+/-0.5	
2,4,6-Tribromophenol	50.0	95	40 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	50.0	114	50 - 135	14.49	14.6125	-0.1225	+/-0.5	
Terphenyl-d14	50.0	114	50 - 135	14.49	14.6125	-0.1225	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
LCS Dup (3F24010-BSD1)			Lab File ID: 1gb007.D		Analyzed: 07/07/13 10:01			
2-Fluorophenol	50.0	49	20 - 110	5.287	5.39075	-0.1038	+/-0.5	
2-Fluorophenol	50.0	49	20 - 110	5.287	5.39075	-0.1038	+/-0.5	
Phenol-d5	50.0	34	10 - 115	6.376	6.48475	-0.1088	+/-0.5	
Phenol-d5	50.0	34	10 - 115	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	50.0	74	40 - 110	7.536	7.64725	-0.1113	+/-0.5	
Nitrobenzene-d5	50.0	74	40 - 110	7.536	7.64725	-0.1113	+/-0.5	
2-Fluorobiphenyl	50.0	69	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2-Fluorobiphenyl	50.0	69	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	50.0	93	40 - 125	11.634	11.7515	-0.1175	+/-0.5	
2,4,6-Tribromophenol	50.0	93	40 - 125	11.634	11.7515	-0.1175	+/-0.5	
Terphenyl-d14	50.0	111	50 - 135	14.49	14.6125	-0.1225	+/-0.5	
Terphenyl-d14	50.0	111	50 - 135	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB07-GW-0613 (A303499-08)			Lab File ID: 1gb008.D		Analyzed: 07/07/13 10:29			
2-Fluorophenol	50.0	17	20 - 110	5.277	5.39075	-0.1138	+/-0.5	*
Phenol-d5	50.0	16	10 - 115	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	50.0	76	40 - 110	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	50.0	79	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	50.0	37	40 - 125	11.624	11.7515	-0.1275	+/-0.5	*
Terphenyl-d14	50.0	127	50 - 135	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 1gb009.D		Analyzed: 07/07/13 10:58			
2-Fluorophenol	2110	92	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2110	101	40 - 100	6.377	6.48475	-0.1078	+/-0.5	*
Nitrobenzene-d5	2110	85	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2110	74	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2110	99	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2110	118	30 - 125	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB06-GW-0613 (A303499-13)			Lab File ID: 1gb010.D		Analyzed: 07/07/13 11:26			
2-Fluorophenol	50.0	34	20 - 110	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	50.0	29	10 - 115	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	50.0	59	40 - 110	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	50.0	60	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	50.0	56	40 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	50.0	104	50 - 135	14.49	14.6125	-0.1225	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB04-GW-0613 (A303499-16)			Lab File ID: 1gb011.D		Analyzed: 07/07/13 11:54			
2-Fluorophenol	50.0	38	20 - 110	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	50.0	34	10 - 115	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	50.0	72	40 - 110	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	50.0	75	50 - 110	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	50.0	61	40 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	50.0	95	50 - 135	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 1gb017.D		Analyzed: 07/07/13 14:44			
2-Fluorophenol	2130	88	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2130	104	40 - 100	6.376	6.48475	-0.1088	+/-0.5	*
Nitrobenzene-d5	2130	80	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2130	68	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2130	96	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2130	117	30 - 125	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 1gb018.D		Analyzed: 07/07/13 15:13			
2-Fluorophenol	2100	88	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2100	94	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	2100	81	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2100	73	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2100	107	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2100	124	30 - 125	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 1gb019.D		Analyzed: 07/07/13 15:41			
2-Fluorophenol	2190	68	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2190	78	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	2190	59	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2190	49	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2190	97	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2190	118	30 - 125	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 1gb020.D		Analyzed: 07/07/13 16:09			
2-Fluorophenol	2180	83	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2180	99	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	2180	72	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2180	62	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2180	97	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2180	125	30 - 125	14.49	14.6125	-0.1225	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 1gb021.D		Analyzed: 07/07/13 16:37			
2-Fluorophenol	2060	78	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2060	90	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	2060	71	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2060	60	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2060	96	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2060	123	30 - 125	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 1gb022.D		Analyzed: 07/07/13 17:06			
2-Fluorophenol	1940	95	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	1940	104	40 - 100	6.376	6.48475	-0.1088	+/-0.5	*
Nitrobenzene-d5	1940	92	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	1940	89	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	1940	108	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	1940	128	30 - 125	14.49	14.6125	-0.1225	+/-0.5	*
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 1gb023.D		Analyzed: 07/07/13 17:34			
2-Fluorophenol	2310	57	35 - 105	5.267	5.39075	-0.1237	+/-0.5	
Phenol-d5	2310	72	40 - 100	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	2310	60	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2310	51	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2310	81	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2310	74	30 - 125	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 1gb024.D		Analyzed: 07/07/13 18:02			
2-Fluorophenol	2000	68	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2000	77	40 - 100	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	2000	63	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2000	62	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2000	90	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2000	91	30 - 125	14.49	14.6125	-0.1225	+/-0.5	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 1gb025.D		Analyzed: 07/07/13 18:31			
2-Fluorophenol	1950	61	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	1950	71	40 - 100	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	1950	61	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	1950	61	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	1950	83	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	1950	75	30 - 125	14.49	14.6125	-0.1225	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 1gb026.D		Analyzed: 07/07/13 18:58			
2-Fluorophenol	2210	72	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2210	85	40 - 100	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	2210	65	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	2210	52	45 - 105	9.765	9.884	-0.1190	+/-0.5	
2,4,6-Tribromophenol	2210	85	35 - 125	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	2210	66	30 - 125	14.49	14.6125	-0.1225	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24841	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24841-CCV1)			Lab File ID: 1gc002.D		Analyzed: 07/08/13 07:29			
2-Fluorophenol	50.0	102	80 - 120	5.287	5.39075	-0.1038	+/-0.5	
2-Fluorophenol	50.0	102	80 - 120	5.287	5.39075	-0.1038	+/-0.5	
Phenol-d5	50.0	103	80 - 120	6.386	6.48475	-0.0987	+/-0.5	
Phenol-d5	50.0	103	80 - 120	6.386	6.48475	-0.0987	+/-0.5	
Nitrobenzene-d5	50.0	100	80 - 120	7.536	7.64725	-0.1113	+/-0.5	
Nitrobenzene-d5	50.0	100	80 - 120	7.536	7.64725	-0.1113	+/-0.5	
2-Fluorobiphenyl	50.0	101	80 - 120	9.756	9.884	-0.1280	+/-0.5	
2-Fluorobiphenyl	50.0	101	80 - 120	9.756	9.884	-0.1280	+/-0.5	
2,4,6-Tribromophenol	50.0	106	80 - 120	11.624	11.7515	-0.1275	+/-0.5	
2,4,6-Tribromophenol	50.0	106	80 - 120	11.624	11.7515	-0.1275	+/-0.5	
Terphenyl-d14	50.0	84	80 - 120	14.48	14.6125	-0.1325	+/-0.5	
Terphenyl-d14	50.0	84	80 - 120	14.48	14.6125	-0.1325	+/-0.5	
Instrument RL Check (AA24841-CRL1)			Lab File ID: 1gc004.D		Analyzed: 07/08/13 08:26			
2-Fluorophenol	10.0	95	50 - 150	5.277	5.39075	-0.1138	+/-0.5	
2-Fluorophenol	10.0	95	50 - 150	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	10.0	95	50 - 150	6.366	6.48475	-0.1188	+/-0.5	
Phenol-d5	10.0	95	50 - 150	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	10.0	97	50 - 150	7.516	7.64725	-0.1313	+/-0.5	
Nitrobenzene-d5	10.0	97	50 - 150	7.516	7.64725	-0.1313	+/-0.5	
2-Fluorobiphenyl	10.0	76	50 - 150	9.756	9.884	-0.1280	+/-0.5	
2-Fluorobiphenyl	10.0	76	50 - 150	9.756	9.884	-0.1280	+/-0.5	
2,4,6-Tribromophenol	10.0	75	50 - 150	11.614	11.7515	-0.1375	+/-0.5	
2,4,6-Tribromophenol	10.0	75	50 - 150	11.614	11.7515	-0.1375	+/-0.5	
Terphenyl-d14	10.0	81	50 - 150	14.469	14.6125	-0.1435	+/-0.5	
Terphenyl-d14	10.0	81	50 - 150	14.469	14.6125	-0.1435	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24841	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Blank (3G08001-BLK1)			Lab File ID: 1gc005.D		Analyzed: 07/08/13 08:54			
2-Fluorophenol	1670	57	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
2-Fluorophenol	1670	57	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	1670	62	40 - 100	6.366	6.48475	-0.1188	+/-0.5	
Phenol-d5	1670	62	40 - 100	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	1670	56	35 - 100	7.516	7.64725	-0.1313	+/-0.5	
Nitrobenzene-d5	1670	56	35 - 100	7.516	7.64725	-0.1313	+/-0.5	
2-Fluorobiphenyl	1670	58	45 - 105	9.756	9.884	-0.1280	+/-0.5	
2-Fluorobiphenyl	1670	58	45 - 105	9.756	9.884	-0.1280	+/-0.5	
2,4,6-Tribromophenol	1670	55	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
2,4,6-Tribromophenol	1670	55	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
Terphenyl-d14	1670	103	30 - 125	14.47	14.6125	-0.1425	+/-0.5	
Terphenyl-d14	1670	103	30 - 125	14.47	14.6125	-0.1425	+/-0.5	
LCS (3G08001-BS1)			Lab File ID: 1gc006.D		Analyzed: 07/08/13 09:23			
2-Fluorophenol	1670	79	35 - 105	5.287	5.39075	-0.1038	+/-0.5	
2-Fluorophenol	1670	79	35 - 105	5.287	5.39075	-0.1038	+/-0.5	
Phenol-d5	1670	85	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Phenol-d5	1670	85	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	1670	82	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
Nitrobenzene-d5	1670	82	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	1670	86	45 - 105	9.756	9.884	-0.1280	+/-0.5	
2-Fluorobiphenyl	1670	86	45 - 105	9.756	9.884	-0.1280	+/-0.5	
2,4,6-Tribromophenol	1670	90	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
2,4,6-Tribromophenol	1670	90	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
Terphenyl-d14	1670	109	30 - 125	14.48	14.6125	-0.1325	+/-0.5	
Terphenyl-d14	1670	109	30 - 125	14.48	14.6125	-0.1325	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24841	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
LCS Dup (3G08001-BSD1)			Lab File ID: 1gc007.D		Analyzed: 07/08/13 09:51			
2-Fluorophenol	1670	92	35 - 105	5.287	5.39075	-0.1038	+/-0.5	
2-Fluorophenol	1670	92	35 - 105	5.287	5.39075	-0.1038	+/-0.5	
Phenol-d5	1670	98	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Phenol-d5	1670	98	40 - 100	6.376	6.48475	-0.1088	+/-0.5	
Nitrobenzene-d5	1670	94	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
Nitrobenzene-d5	1670	94	35 - 100	7.526	7.64725	-0.1213	+/-0.5	
2-Fluorobiphenyl	1670	97	45 - 105	9.756	9.884	-0.1280	+/-0.5	
2-Fluorobiphenyl	1670	97	45 - 105	9.756	9.884	-0.1280	+/-0.5	
2,4,6-Tribromophenol	1670	95	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
2,4,6-Tribromophenol	1670	95	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
Terphenyl-d14	1670	109	30 - 125	14.47	14.6125	-0.1425	+/-0.5	
Terphenyl-d14	1670	109	30 - 125	14.47	14.6125	-0.1425	+/-0.5	
TR-2ND-SB07-04-06-0613 (A303499-07RE1)			Lab File ID: 1gc013.D		Analyzed: 07/08/13 12:42			
2-Fluorophenol	2050	38	35 - 105	5.277	5.39075	-0.1138	+/-0.5	
Phenol-d5	2050	42	40 - 100	6.366	6.48475	-0.1188	+/-0.5	
Nitrobenzene-d5	2050	37	35 - 100	7.516	7.64725	-0.1313	+/-0.5	
2-Fluorobiphenyl	2050	42	45 - 105	9.756	9.884	-0.1280	+/-0.5	*
2,4,6-Tribromophenol	2050	80	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
Terphenyl-d14	2050	109	30 - 125	14.48	14.6125	-0.1325	+/-0.5	
TR-2ND-SB04-0.5-01-0613 (A303499-14RE1)			Lab File ID: 1gc014.D		Analyzed: 07/08/13 13:10			
2-Fluorophenol	1950	45	35 - 105	5.267	5.39075	-0.1237	+/-0.5	
Phenol-d5	1950	55	40 - 100	6.356	6.48475	-0.1288	+/-0.5	
Nitrobenzene-d5	1950	45	35 - 100	7.516	7.64725	-0.1313	+/-0.5	
2-Fluorobiphenyl	1950	48	45 - 105	9.747	9.884	-0.1370	+/-0.5	
2,4,6-Tribromophenol	1950	62	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
Terphenyl-d14	1950	73	30 - 125	14.47	14.6125	-0.1425	+/-0.5	
TR-2ND-SB05-0.5-01-0613 (A303499-17RE1)			Lab File ID: 1gc015.D		Analyzed: 07/08/13 13:39			
2-Fluorophenol	2210	54	35 - 105	5.267	5.39075	-0.1237	+/-0.5	
Phenol-d5	2210	62	40 - 100	6.356	6.48475	-0.1288	+/-0.5	
Nitrobenzene-d5	2210	46	35 - 100	7.516	7.64725	-0.1313	+/-0.5	
2-Fluorobiphenyl	2210	36	45 - 105	9.747	9.884	-0.1370	+/-0.5	*
2,4,6-Tribromophenol	2210	62	35 - 125	11.614	11.7515	-0.1375	+/-0.5	
Terphenyl-d14	2210	61	30 - 125	14.469	14.6125	-0.1435	+/-0.5	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24782
Instrument: OSVGCMS1
Matrix: Soil
Calibration: 1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA24782-CAL1)			Lab File ID: 1g1008.D			Analyzed: 07/01/13 15:32			
1,4-Dichlorobenzene-d4	388422	6.976	482335	6.976	81	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1541196	8.546	1977928	8.555	78	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	775134	10.762	1068606	10.762	73	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1276626	12.633	1699960	12.644	75	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	794745	16.262	971732	16.262	82	50 - 200	0.0000	+/-0.50	
Perylene-d12	566501	19.227	611159	19.226	93	50 - 200	0.0010	+/-0.50	
Cal Standard (AA24782-CAL2)			Lab File ID: 1g1009.D			Analyzed: 07/01/13 16:00			
1,4-Dichlorobenzene-d4	392190	6.976	482335	6.976	81	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1618910	8.546	1977928	8.555	82	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	852186	10.762	1068606	10.762	80	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1332617	12.633	1699960	12.644	78	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	804932	16.262	971732	16.262	83	50 - 200	0.0000	+/-0.50	
Perylene-d12	637959	19.226	611159	19.226	104	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24782-CAL3)			Lab File ID: 1g1010.D			Analyzed: 07/01/13 16:29			
1,4-Dichlorobenzene-d4	400927	6.976	482335	6.976	83	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1662935	8.546	1977928	8.555	84	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	875772	10.762	1068606	10.762	82	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1415025	12.633	1699960	12.644	83	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	919792	16.262	971732	16.262	95	50 - 200	0.0000	+/-0.50	
Perylene-d12	702032	19.227	611159	19.226	115	50 - 200	0.0010	+/-0.50	
Cal Standard (AA24782-CAL4)			Lab File ID: 1g1012.D			Analyzed: 07/01/13 17:25			
1,4-Dichlorobenzene-d4	407647	6.976	482335	6.976	85	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1645045	8.546	1977928	8.555	83	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	815732	10.753	1068606	10.762	76	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1269563	12.633	1699960	12.644	75	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	825929	16.261	971732	16.262	85	50 - 200	-0.0010	+/-0.50	
Perylene-d12	633245	19.226	611159	19.226	104	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24782-CAL5)			Lab File ID: 1g1013.D			Analyzed: 07/01/13 17:53			
1,4-Dichlorobenzene-d4	488118	6.976	482335	6.976	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2032518	8.546	1977928	8.555	103	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1079886	10.762	1068606	10.762	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1734782	12.633	1699960	12.644	102	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	1070067	16.261	971732	16.262	110	50 - 200	-0.0010	+/-0.50	
Perylene-d12	791634	19.226	611159	19.226	130	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24782	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (AA24782-SCV1)			Lab File ID: 1g1014.D			Analyzed: 07/01/13 18:22			
1,4-Dichlorobenzene-d4	463614	6.976	482335	6.976	96	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1935140	8.546	1977928	8.555	98	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1071269	10.753	1068606	10.762	100	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1824286	12.633	1699960	12.644	107	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	1124585	16.262	971732	16.262	116	50 - 200	0.0000	+/-0.50	
Perylene-d12	849747	19.226	611159	19.226	139	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24784	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA24784-CAL1)			Lab File ID: 1g2002.D			Analyzed: 07/02/13 09:09			
1,4-Dichlorobenzene-d4	429936	6.976	482335	6.976	89	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1607988	8.546	1977928	8.555	81	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	794123	10.762	1068606	10.762	74	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1378654	12.633	1699960	12.644	81	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	904132	16.261	971732	16.262	93	50 - 200	-0.0010	+/-0.50	
Perylene-d12	709460	19.226	611159	19.226	116	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24784-CAL2)			Lab File ID: 1g2003.D			Analyzed: 07/02/13 09:38			
1,4-Dichlorobenzene-d4	401822	6.976	482335	6.976	83	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1562722	8.546	1977928	8.555	79	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	822387	10.753	1068606	10.762	77	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1405061	12.633	1699960	12.644	83	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	789763	16.262	971732	16.262	81	50 - 200	0.0000	+/-0.50	
Perylene-d12	596815	19.218	611159	19.226	98	50 - 200	-0.0080	+/-0.50	
Cal Standard (AA24784-CAL3)			Lab File ID: 1g2004.D			Analyzed: 07/02/13 10:06			
1,4-Dichlorobenzene-d4	460653	6.976	482335	6.976	96	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1853394	8.546	1977928	8.555	94	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	936904	10.762	1068606	10.762	88	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1530249	12.633	1699960	12.644	90	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	933222	16.262	971732	16.262	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	707651	19.226	611159	19.226	116	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24784-CAL4)			Lab File ID: 1g2005.D			Analyzed: 07/02/13 10:35			
1,4-Dichlorobenzene-d4	423163	6.976	482335	6.976	88	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1737185	8.555	1977928	8.555	88	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	911540	10.762	1068606	10.762	85	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1436295	12.633	1699960	12.644	84	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	844717	16.261	971732	16.262	87	50 - 200	-0.0010	+/-0.50	
Perylene-d12	573637	19.226	611159	19.226	94	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24784-CAL5)			Lab File ID: 1g2006.D			Analyzed: 07/02/13 11:03			
1,4-Dichlorobenzene-d4	482335	6.976	482335	6.976	100	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1977928	8.555	1977928	8.555	100	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1068606	10.762	1068606	10.762	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1699960	12.644	1699960	12.644	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12	971732	16.262	971732	16.262	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	611159	19.226	611159	19.226	100	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24784	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA24784-CAL6)			Lab File ID: 1g2007.D			Analyzed: 07/02/13 11:32			
1,4-Dichlorobenzene-d4	489297	6.976	482335	6.976	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2059517	8.555	1977928	8.555	104	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1102041	10.762	1068606	10.762	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1735814	12.645	1699960	12.644	102	50 - 200	0.0010	+/-0.50	
Chrysene-d12	978636	16.273	971732	16.262	101	50 - 200	0.0110	+/-0.50	
Perylene-d12	588232	19.226	611159	19.226	96	50 - 200	0.0000	+/-0.50	
Cal Standard (AA24784-CAL7)			Lab File ID: 1g2008.D			Analyzed: 07/02/13 12:00			
1,4-Dichlorobenzene-d4	181925	6.976	482335	6.976	38	50 - 200	0.0000	+/-0.50	*
Naphthalene-d8	760531	8.546	1977928	8.555	38	50 - 200	-0.0090	+/-0.50	*
Acenaphthene-d10	413775	10.762	1068606	10.762	39	50 - 200	0.0000	+/-0.50	*
Phenanthrene-d10	674949	12.633	1699960	12.644	40	50 - 200	-0.0110	+/-0.50	*
Chrysene-d12	388418	16.262	971732	16.262	40	50 - 200	0.0000	+/-0.50	*
Perylene-d12	247482	19.218	611159	19.226	40	50 - 200	-0.0080	+/-0.50	*
Cal Standard (AA24784-CAL8)			Lab File ID: 1g2009.D			Analyzed: 07/02/13 12:28			
1,4-Dichlorobenzene-d4	450047	6.976	482335	6.976	93	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1934743	8.555	1977928	8.555	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1073287	10.762	1068606	10.762	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1660698	12.644	1699960	12.644	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1026132	16.273	971732	16.262	106	50 - 200	0.0110	+/-0.50	
Perylene-d12	524588	19.226	611159	19.226	86	50 - 200	0.0000	+/-0.50	
Secondary Cal Check (AA24784-SCV1)			Lab File ID: 1g2010.D			Analyzed: 07/02/13 12:57			
1,4-Dichlorobenzene-d4	459693	6.976	482335	6.976	95	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1947067	8.555	1977928	8.555	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1033552	10.762	1068606	10.762	97	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1613310	12.645	1699960	12.644	95	50 - 200	0.0010	+/-0.50	
Chrysene-d12	940267	16.262	971732	16.262	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	608405	19.226	611159	19.226	100	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24827
Instrument: OSVGCMS1
Matrix: Soil
Calibration: 1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24827-CCV1)			Lab File ID: 1ga002.D			Analyzed: 07/06/13 11:01			
1,4-Dichlorobenzene-d4	492445	6.886	482335	6.976	102	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	2145065	8.462	1977928	8.555	108	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1225054	10.669	1068606	10.762	115	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	2030583	12.552	1699960	12.644	119	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	1359687	16.14	971732	16.262	140	50 - 200	-0.1220	+/-0.50	
Perylene-d12	999423	19.082	611159	19.226	164	50 - 200	-0.1440	+/-0.50	
Calibration Check (AA24827-CCV2)			Lab File ID: 1ga003.D			Analyzed: 07/06/13 11:30			
1,4-Dichlorobenzene-d4	603539	6.886	482335	6.976	125	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	2614048	8.462	1977928	8.555	132	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1453039	10.669	1068606	10.762	136	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	2401616	12.541	1699960	12.644	141	50 - 200	-0.1030	+/-0.50	
Chrysene-d12	1739377	16.129	971732	16.262	179	50 - 200	-0.1330	+/-0.50	
Perylene-d12	1294647	19.074	611159	19.226	212	50 - 200	-0.1520	+/-0.50	*
Instrument RL Check (AA24827-CRL1)			Lab File ID: 1ga004.D			Analyzed: 07/06/13 11:58			
1,4-Dichlorobenzene-d4	519660	6.886	482335	6.976	108	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	2050856	8.462	1977928	8.555	104	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1133978	10.669	1068606	10.762	106	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	1772983	12.541	1699960	12.644	104	50 - 200	-0.1030	+/-0.50	
Chrysene-d12	1196700	16.129	971732	16.262	123	50 - 200	-0.1330	+/-0.50	
Perylene-d12	930204	19.074	611159	19.226	152	50 - 200	-0.1520	+/-0.50	
Blank (3F21017-BLK1)			Lab File ID: 1ga005.D			Analyzed: 07/06/13 12:26			
1,4-Dichlorobenzene-d4	460905	6.886	482335	6.976	96	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	1940795	8.462	1977928	8.555	98	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1064232	10.669	1068606	10.762	100	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	1771186	12.541	1699960	12.644	104	50 - 200	-0.1030	+/-0.50	
Chrysene-d12	1072054	16.118	971732	16.262	110	50 - 200	-0.1440	+/-0.50	
Perylene-d12	810012	19.065	611159	19.226	133	50 - 200	-0.1610	+/-0.50	
LCS (3F21017-BS1)			Lab File ID: 1ga006.D			Analyzed: 07/06/13 12:55			
1,4-Dichlorobenzene-d4	500665	6.886	482335	6.976	104	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	2083283	8.462	1977928	8.555	105	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1130623	10.669	1068606	10.762	106	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	1836452	12.54	1699960	12.644	108	50 - 200	-0.1040	+/-0.50	
Chrysene-d12	1210170	16.129	971732	16.262	125	50 - 200	-0.1330	+/-0.50	
Perylene-d12	938496	19.074	611159	19.226	154	50 - 200	-0.1520	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24827	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (3F21017-MS1)			Lab File ID: 1ga007.D			Analyzed: 07/06/13 13:23			
1,4-Dichlorobenzene-d4	391884	6.886	482335	6.976	81	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	1619683	8.462	1977928	8.555	82	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	914488	10.669	1068606	10.762	86	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	1571149	12.541	1699960	12.644	92	50 - 200	-0.1030	+/-0.50	
Chrysene-d12	1078103	16.129	971732	16.262	111	50 - 200	-0.1330	+/-0.50	
Perylene-d12	745326	19.074	611159	19.226	122	50 - 200	-0.1520	+/-0.50	
Matrix Spike Dup (3F21017-MSD1)			Lab File ID: 1ga008.D			Analyzed: 07/06/13 13:51			
1,4-Dichlorobenzene-d4	439429	6.886	482335	6.976	91	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	1869113	8.462	1977928	8.555	94	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1043521	10.669	1068606	10.762	98	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	1721983	12.54	1699960	12.644	101	50 - 200	-0.1040	+/-0.50	
Chrysene-d12	1221763	16.129	971732	16.262	126	50 - 200	-0.1330	+/-0.50	
Perylene-d12	744551	19.074	611159	19.226	122	50 - 200	-0.1520	+/-0.50	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 1ga023.D			Analyzed: 07/06/13 20:57			
1,4-Dichlorobenzene-d4	448871	6.886	482335	6.976	93	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	1899992	8.462	1977928	8.555	96	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1098019	10.669	1068606	10.762	103	50 - 200	-0.0930	+/-0.50	
Phenanthrene-d10	1909470	12.54	1699960	12.644	112	50 - 200	-0.1040	+/-0.50	
Chrysene-d12	1248520	16.118	971732	16.262	128	50 - 200	-0.1440	+/-0.50	
Perylene-d12	542999	19.065	611159	19.226	89	50 - 200	-0.1610	+/-0.50	
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 1ga024.D			Analyzed: 07/06/13 21:25			
1,4-Dichlorobenzene-d4	443799	6.886	482335	6.976	92	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	1868216	8.462	1977928	8.555	94	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1085005	10.659	1068606	10.762	102	50 - 200	-0.1030	+/-0.50	
Phenanthrene-d10	1865271	12.541	1699960	12.644	110	50 - 200	-0.1030	+/-0.50	
Chrysene-d12	1049721	16.118	971732	16.262	108	50 - 200	-0.1440	+/-0.50	
Perylene-d12	518857	19.065	611159	19.226	85	50 - 200	-0.1610	+/-0.50	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 1ga025.D			Analyzed: 07/06/13 21:54			
1,4-Dichlorobenzene-d4	447520	6.886	482335	6.976	93	50 - 200	-0.0900	+/-0.50	
Naphthalene-d8	1882590	8.462	1977928	8.555	95	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10	1056964	10.659	1068606	10.762	99	50 - 200	-0.1030	+/-0.50	
Phenanthrene-d10	1762821	12.541	1699960	12.644	104	50 - 200	-0.1030	+/-0.50	
Chrysene-d12	987056	16.118	971732	16.262	102	50 - 200	-0.1440	+/-0.50	
Perylene-d12	420124	19.065	611159	19.226	69	50 - 200	-0.1610	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24837
Instrument: OSVGCMS1
Matrix: Water
Calibration: 1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24837-CCV1)			Lab File ID: 1gb002.D			Analyzed: 07/07/13 07:39			
1,4-Dichlorobenzene-d4	457055	6.866	482335	6.976	95	50 - 200	-0.1100	+/-0.50	
1,4-Dichlorobenzene-d4	457055	6.866	482335	6.976	95	50 - 200	-0.1100	+/-0.50	
Naphthalene-d8	1994317	8.443	1977928	8.555	101	50 - 200	-0.1120	+/-0.50	
Naphthalene-d8	1994317	8.443	1977928	8.555	101	50 - 200	-0.1120	+/-0.50	
Acenaphthene-d10	1192722	10.65	1068606	10.762	112	50 - 200	-0.1120	+/-0.50	
Acenaphthene-d10	1192722	10.65	1068606	10.762	112	50 - 200	-0.1120	+/-0.50	
Phenanthrene-d10	2078379	12.518	1699960	12.644	122	50 - 200	-0.1260	+/-0.50	
Phenanthrene-d10	2078379	12.518	1699960	12.644	122	50 - 200	-0.1260	+/-0.50	
Chrysene-d12	1455796	16.096	971732	16.262	150	50 - 200	-0.1660	+/-0.50	
Chrysene-d12	1455796	16.096	971732	16.262	150	50 - 200	-0.1660	+/-0.50	
Perylene-d12	999733	19.04	611159	19.226	164	50 - 200	-0.1860	+/-0.50	
Perylene-d12	999733	19.04	611159	19.226	164	50 - 200	-0.1860	+/-0.50	
Calibration Check (AA24837-CCV2)			Lab File ID: 1gb003.D			Analyzed: 07/07/13 08:08			
1,4-Dichlorobenzene-d4	448698	6.856	482335	6.976	93	50 - 200	-0.1200	+/-0.50	
1,4-Dichlorobenzene-d4	448698	6.856	482335	6.976	93	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1909671	8.434	1977928	8.555	97	50 - 200	-0.1210	+/-0.50	
Naphthalene-d8	1909671	8.434	1977928	8.555	97	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1063088	10.641	1068606	10.762	99	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1063088	10.641	1068606	10.762	99	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1748449	12.506	1699960	12.644	103	50 - 200	-0.1380	+/-0.50	
Phenanthrene-d10	1748449	12.506	1699960	12.644	103	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	1293829	16.085	971732	16.262	133	50 - 200	-0.1770	+/-0.50	
Chrysene-d12	1293829	16.085	971732	16.262	133	50 - 200	-0.1770	+/-0.50	
Perylene-d12	1062178	19.031	611159	19.226	174	50 - 200	-0.1950	+/-0.50	
Perylene-d12	1062178	19.031	611159	19.226	174	50 - 200	-0.1950	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Instrument RL Check (AA24837-CRL1)			Lab File ID: 1gb004.D			Analyzed: 07/07/13 08:36			
1,4-Dichlorobenzene-d4	597642	6.856	482335	6.976	124	50 - 200	-0.1200	+/-0.50	
1,4-Dichlorobenzene-d4	597642	6.856	482335	6.976	124	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	2463411	8.434	1977928	8.555	125	50 - 200	-0.1210	+/-0.50	
Naphthalene-d8	2463411	8.434	1977928	8.555	125	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1366473	10.641	1068606	10.762	128	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1366473	10.641	1068606	10.762	128	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	2319440	12.517	1699960	12.644	136	50 - 200	-0.1270	+/-0.50	
Phenanthrene-d10	2319440	12.517	1699960	12.644	136	50 - 200	-0.1270	+/-0.50	
Chrysene-d12	1764162	16.085	971732	16.262	182	50 - 200	-0.1770	+/-0.50	
Chrysene-d12	1764162	16.085	971732	16.262	182	50 - 200	-0.1770	+/-0.50	
Perylene-d12	1345778	19.031	611159	19.226	220	50 - 200	-0.1950	+/-0.50	*
Perylene-d12	1345778	19.031	611159	19.226	220	50 - 200	-0.1950	+/-0.50	*
Blank (3F24010-BLK1)			Lab File ID: 1gb005.D			Analyzed: 07/07/13 09:04			
1,4-Dichlorobenzene-d4	377912	6.856	482335	6.976	78	50 - 200	-0.1200	+/-0.50	
1,4-Dichlorobenzene-d4	377912	6.856	482335	6.976	78	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1668128	8.434	1977928	8.555	84	50 - 200	-0.1210	+/-0.50	
Naphthalene-d8	1668128	8.434	1977928	8.555	84	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	949407	10.641	1068606	10.762	89	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	949407	10.641	1068606	10.762	89	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1554631	12.506	1699960	12.644	91	50 - 200	-0.1380	+/-0.50	
Phenanthrene-d10	1554631	12.506	1699960	12.644	91	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	1114395	16.074	971732	16.262	115	50 - 200	-0.1880	+/-0.50	
Chrysene-d12	1114395	16.074	971732	16.262	115	50 - 200	-0.1880	+/-0.50	
Perylene-d12	890269	19.023	611159	19.226	146	50 - 200	-0.2030	+/-0.50	
Perylene-d12	890269	19.023	611159	19.226	146	50 - 200	-0.2030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (3F24010-BS1)			Lab File ID: 1gb006.D			Analyzed: 07/07/13 09:32			
1,4-Dichlorobenzene-d4	299045	6.856	482335	6.976	62	50 - 200	-0.1200	+/-0.50	
1,4-Dichlorobenzene-d4	299045	6.856	482335	6.976	62	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1239631	8.434	1977928	8.555	63	50 - 200	-0.1210	+/-0.50	
Naphthalene-d8	1239631	8.434	1977928	8.555	63	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	684739	10.641	1068606	10.762	64	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	684739	10.641	1068606	10.762	64	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1079677	12.506	1699960	12.644	64	50 - 200	-0.1380	+/-0.50	
Phenanthrene-d10	1079677	12.506	1699960	12.644	64	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	708271	16.085	971732	16.262	73	50 - 200	-0.1770	+/-0.50	
Chrysene-d12	708271	16.085	971732	16.262	73	50 - 200	-0.1770	+/-0.50	
Perylene-d12	518617	19.023	611159	19.226	85	50 - 200	-0.2030	+/-0.50	
Perylene-d12	518617	19.023	611159	19.226	85	50 - 200	-0.2030	+/-0.50	
LCS Dup (3F24010-BSD1)			Lab File ID: 1gb007.D			Analyzed: 07/07/13 10:01			
1,4-Dichlorobenzene-d4	393817	6.856	482335	6.976	82	50 - 200	-0.1200	+/-0.50	
1,4-Dichlorobenzene-d4	393817	6.856	482335	6.976	82	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1654576	8.434	1977928	8.555	84	50 - 200	-0.1210	+/-0.50	
Naphthalene-d8	1654576	8.434	1977928	8.555	84	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	918968	10.641	1068606	10.762	86	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	918968	10.641	1068606	10.762	86	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1518041	12.517	1699960	12.644	89	50 - 200	-0.1270	+/-0.50	
Phenanthrene-d10	1518041	12.517	1699960	12.644	89	50 - 200	-0.1270	+/-0.50	
Chrysene-d12	1043420	16.085	971732	16.262	107	50 - 200	-0.1770	+/-0.50	
Chrysene-d12	1043420	16.085	971732	16.262	107	50 - 200	-0.1770	+/-0.50	
Perylene-d12	789239	19.023	611159	19.226	129	50 - 200	-0.2030	+/-0.50	
Perylene-d12	789239	19.023	611159	19.226	129	50 - 200	-0.2030	+/-0.50	
TR-2ND-SB07-GW-0613 (A303499-08)			Lab File ID: 1gb008.D			Analyzed: 07/07/13 10:29			
1,4-Dichlorobenzene-d4	330502	6.856	482335	6.976	69	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1374160	8.434	1977928	8.555	69	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	744900	10.631	1068606	10.762	70	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1239804	12.506	1699960	12.644	73	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	838702	16.074	971732	16.262	86	50 - 200	-0.1880	+/-0.50	
Perylene-d12	621690	19.014	611159	19.226	102	50 - 200	-0.2120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24837
Instrument: OSVGCMS1
Matrix: Water
Calibration: 1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 1gb009.D			Analyzed: 07/07/13 10:58			
1,4-Dichlorobenzene-d4	358211	6.856	482335	6.976	74	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1504021	8.434	1977928	8.555	76	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	801341	10.632	1068606	10.762	75	50 - 200	-0.1300	+/-0.50	
Phenanthrene-d10	1299825	12.506	1699960	12.644	76	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	811469	16.074	971732	16.262	84	50 - 200	-0.1880	+/-0.50	
Perylene-d12	552578	19.015	611159	19.226	90	50 - 200	-0.2110	+/-0.50	
TR-2ND-SB06-GW-0613 (A303499-13)			Lab File ID: 1gb010.D			Analyzed: 07/07/13 11:26			
1,4-Dichlorobenzene-d4	390070	6.856	482335	6.976	81	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1668138	8.434	1977928	8.555	84	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	898863	10.641	1068606	10.762	84	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1424746	12.506	1699960	12.644	84	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	952230	16.074	971732	16.262	98	50 - 200	-0.1880	+/-0.50	
Perylene-d12	703744	19.023	611159	19.226	115	50 - 200	-0.2030	+/-0.50	
TR-2ND-SB04-GW-0613 (A303499-16)			Lab File ID: 1gb011.D			Analyzed: 07/07/13 11:54			
1,4-Dichlorobenzene-d4	375751	6.856	482335	6.976	78	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1560774	8.434	1977928	8.555	79	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	837172	10.632	1068606	10.762	78	50 - 200	-0.1300	+/-0.50	
Phenanthrene-d10	1307904	12.506	1699960	12.644	77	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	846702	16.074	971732	16.262	87	50 - 200	-0.1880	+/-0.50	
Perylene-d12	628180	19.023	611159	19.226	103	50 - 200	-0.2030	+/-0.50	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 1gb017.D			Analyzed: 07/07/13 14:44			
1,4-Dichlorobenzene-d4	383157	6.856	482335	6.976	79	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1626257	8.434	1977928	8.555	82	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	904955	10.641	1068606	10.762	85	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1439896	12.506	1699960	12.644	85	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	916521	16.074	971732	16.262	94	50 - 200	-0.1880	+/-0.50	
Perylene-d12	701177	19.023	611159	19.226	115	50 - 200	-0.2030	+/-0.50	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 1gb018.D			Analyzed: 07/07/13 15:13			
1,4-Dichlorobenzene-d4	327166	6.856	482335	6.976	68	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1301621	8.434	1977928	8.555	66	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	686354	10.631	1068606	10.762	64	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1166725	12.506	1699960	12.644	69	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	859825	16.074	971732	16.262	88	50 - 200	-0.1880	+/-0.50	
Perylene-d12	635203	19.023	611159	19.226	104	50 - 200	-0.2030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24837
Instrument: OSVGCMS1
Matrix: Water
Calibration: 1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 1gb019.D			Analyzed: 07/07/13 15:41			
1,4-Dichlorobenzene-d4	352014	6.856	482335	6.976	73	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1442700	8.434	1977928	8.555	73	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	764152	10.632	1068606	10.762	72	50 - 200	-0.1300	+/-0.50	
Phenanthrene-d10	1279386	12.506	1699960	12.644	75	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	949487	16.074	971732	16.262	98	50 - 200	-0.1880	+/-0.50	
Perylene-d12	682114	19.023	611159	19.226	112	50 - 200	-0.2030	+/-0.50	
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 1gb020.D			Analyzed: 07/07/13 16:09			
1,4-Dichlorobenzene-d4	390073	6.856	482335	6.976	81	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1649444	8.434	1977928	8.555	83	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	921355	10.631	1068606	10.762	86	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1460163	12.506	1699960	12.644	86	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	978658	16.074	971732	16.262	101	50 - 200	-0.1880	+/-0.50	
Perylene-d12	677673	19.023	611159	19.226	111	50 - 200	-0.2030	+/-0.50	
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 1gb021.D			Analyzed: 07/07/13 16:37			
1,4-Dichlorobenzene-d4	388747	6.856	482335	6.976	81	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1630586	8.434	1977928	8.555	82	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	880249	10.631	1068606	10.762	82	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1360656	12.506	1699960	12.644	80	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	842885	16.074	971732	16.262	87	50 - 200	-0.1880	+/-0.50	
Perylene-d12	545032	19.015	611159	19.226	89	50 - 200	-0.2110	+/-0.50	
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 1gb022.D			Analyzed: 07/07/13 17:06			
1,4-Dichlorobenzene-d4	320660	6.856	482335	6.976	66	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1362948	8.434	1977928	8.555	69	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	760823	10.631	1068606	10.762	71	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1267824	12.506	1699960	12.644	75	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	790826	16.074	971732	16.262	81	50 - 200	-0.1880	+/-0.50	
Perylene-d12	522481	19.014	611159	19.226	85	50 - 200	-0.2120	+/-0.50	
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 1gb023.D			Analyzed: 07/07/13 17:34			
1,4-Dichlorobenzene-d4	380027	6.856	482335	6.976	79	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1669608	8.434	1977928	8.555	84	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1028879	10.641	1068606	10.762	96	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1794626	12.506	1699960	12.644	106	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	802344	16.074	971732	16.262	83	50 - 200	-0.1880	+/-0.50	
Perylene-d12	306328	19.014	611159	19.226	50	50 - 200	-0.2120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24837	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 1gb024.D			Analyzed: 07/07/13 18:02			
1,4-Dichlorobenzene-d4	351562	6.856	482335	6.976	73	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1502099	8.434	1977928	8.555	76	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	860079	10.632	1068606	10.762	80	50 - 200	-0.1300	+/-0.50	
Phenanthrene-d10	1490222	12.506	1699960	12.644	88	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	563093	16.074	971732	16.262	58	50 - 200	-0.1880	+/-0.50	
Perylene-d12	243818	19.015	611159	19.226	40	50 - 200	-0.2110	+/-0.50	*
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 1gb025.D			Analyzed: 07/07/13 18:31			
1,4-Dichlorobenzene-d4	441572	6.856	482335	6.976	92	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1897053	8.434	1977928	8.555	96	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1106859	10.641	1068606	10.762	104	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1412311	12.506	1699960	12.644	83	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	470991	16.074	971732	16.262	48	50 - 200	-0.1880	+/-0.50	*
Perylene-d12	156773	19.015	611159	19.226	26	50 - 200	-0.2110	+/-0.50	*
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 1gb026.D			Analyzed: 07/07/13 18:58			
1,4-Dichlorobenzene-d4	449847	6.856	482335	6.976	93	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	1942342	8.434	1977928	8.555	98	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1116985	10.641	1068606	10.762	105	50 - 200	-0.1210	+/-0.50	
Phenanthrene-d10	1436503	12.506	1699960	12.644	85	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	482725	16.074	971732	16.262	50	50 - 200	-0.1880	+/-0.50	
Perylene-d12	160089	19.014	611159	19.226	26	50 - 200	-0.2120	+/-0.50	*

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24841	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24841-CCV1)			Lab File ID: 1gc002.D			Analyzed: 07/08/13 07:29			
1,4-Dichlorobenzene-d4	569125	6.856	482335	6.976	118	50 - 200	-0.1200	+/-0.50	
1,4-Dichlorobenzene-d4	569125	6.856	482335	6.976	118	50 - 200	-0.1200	+/-0.50	
Naphthalene-d8	2360547	8.425	1977928	8.555	119	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	2360547	8.425	1977928	8.555	119	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	1261840	10.631	1068606	10.762	118	50 - 200	-0.1310	+/-0.50	
Acenaphthene-d10	1261840	10.631	1068606	10.762	118	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1942029	12.506	1699960	12.644	114	50 - 200	-0.1380	+/-0.50	
Phenanthrene-d10	1942029	12.506	1699960	12.644	114	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	903755	16.074	971732	16.262	93	50 - 200	-0.1880	+/-0.50	
Chrysene-d12	903755	16.074	971732	16.262	93	50 - 200	-0.1880	+/-0.50	
Perylene-d12	656534	19.014	611159	19.226	107	50 - 200	-0.2120	+/-0.50	
Perylene-d12	656534	19.014	611159	19.226	107	50 - 200	-0.2120	+/-0.50	
Calibration Check (AA24841-CCV2)			Lab File ID: 1gc003.D			Analyzed: 07/08/13 07:58			
1,4-Dichlorobenzene-d4	591262	6.846	482335	6.976	123	50 - 200	-0.1300	+/-0.50	
1,4-Dichlorobenzene-d4	591262	6.846	482335	6.976	123	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	2523875	8.425	1977928	8.555	128	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	2523875	8.425	1977928	8.555	128	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	1113479	10.631	1068606	10.762	104	50 - 200	-0.1310	+/-0.50	
Acenaphthene-d10	1113479	10.631	1068606	10.762	104	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1722253	12.494	1699960	12.644	101	50 - 200	-0.1500	+/-0.50	
Phenanthrene-d10	1722253	12.494	1699960	12.644	101	50 - 200	-0.1500	+/-0.50	
Chrysene-d12	1047181	16.063	971732	16.262	108	50 - 200	-0.1990	+/-0.50	
Chrysene-d12	1047181	16.063	971732	16.262	108	50 - 200	-0.1990	+/-0.50	
Perylene-d12	810835	19.006	611159	19.226	133	50 - 200	-0.2200	+/-0.50	
Perylene-d12	810835	19.006	611159	19.226	133	50 - 200	-0.2200	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24841	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Instrument RL Check (AA24841-CRL1)			Lab File ID: 1gc004.D			Analyzed: 07/08/13 08:26			
1,4-Dichlorobenzene-d4	719643	6.846	482335	6.976	149	50 - 200	-0.1300	+/-0.50	
1,4-Dichlorobenzene-d4	719643	6.846	482335	6.976	149	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	3022495	8.425	1977928	8.555	153	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	3022495	8.425	1977928	8.555	153	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	1286829	10.631	1068606	10.762	120	50 - 200	-0.1310	+/-0.50	
Acenaphthene-d10	1286829	10.631	1068606	10.762	120	50 - 200	-0.1310	+/-0.50	
Phenanthrene-d10	1874629	12.506	1699960	12.644	110	50 - 200	-0.1380	+/-0.50	
Phenanthrene-d10	1874629	12.506	1699960	12.644	110	50 - 200	-0.1380	+/-0.50	
Chrysene-d12	1053971	16.063	971732	16.262	108	50 - 200	-0.1990	+/-0.50	
Chrysene-d12	1053971	16.063	971732	16.262	108	50 - 200	-0.1990	+/-0.50	
Perylene-d12	785919	19.006	611159	19.226	129	50 - 200	-0.2200	+/-0.50	
Perylene-d12	785919	19.006	611159	19.226	129	50 - 200	-0.2200	+/-0.50	
Blank (3G08001-BLK1)			Lab File ID: 1gc005.D			Analyzed: 07/08/13 08:54			
1,4-Dichlorobenzene-d4	458108	6.846	482335	6.976	95	50 - 200	-0.1300	+/-0.50	
1,4-Dichlorobenzene-d4	458108	6.846	482335	6.976	95	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	1890508	8.415	1977928	8.555	96	50 - 200	-0.1400	+/-0.50	
Naphthalene-d8	1890508	8.415	1977928	8.555	96	50 - 200	-0.1400	+/-0.50	
Acenaphthene-d10	780879	10.622	1068606	10.762	73	50 - 200	-0.1400	+/-0.50	
Acenaphthene-d10	780879	10.622	1068606	10.762	73	50 - 200	-0.1400	+/-0.50	
Phenanthrene-d10	1112885	12.494	1699960	12.644	65	50 - 200	-0.1500	+/-0.50	
Phenanthrene-d10	1112885	12.494	1699960	12.644	65	50 - 200	-0.1500	+/-0.50	
Chrysene-d12	637910	16.052	971732	16.262	66	50 - 200	-0.2100	+/-0.50	
Chrysene-d12	637910	16.052	971732	16.262	66	50 - 200	-0.2100	+/-0.50	
Perylene-d12	493160	18.998	611159	19.226	81	50 - 200	-0.2280	+/-0.50	
Perylene-d12	493160	18.998	611159	19.226	81	50 - 200	-0.2280	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24841	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (3G08001-BS1)			Lab File ID: 1gc006.D			Analyzed: 07/08/13 09:23			
1,4-Dichlorobenzene-d4	494177	6.846	482335	6.976	102	50 - 200	-0.1300	+/-0.50	
1,4-Dichlorobenzene-d4	494177	6.846	482335	6.976	102	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	2037671	8.425	1977928	8.555	103	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	2037671	8.425	1977928	8.555	103	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	1097502	10.632	1068606	10.762	103	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	1097502	10.632	1068606	10.762	103	50 - 200	-0.1300	+/-0.50	
Phenanthrene-d10	1768918	12.494	1699960	12.644	104	50 - 200	-0.1500	+/-0.50	
Phenanthrene-d10	1768918	12.494	1699960	12.644	104	50 - 200	-0.1500	+/-0.50	
Chrysene-d12	1154613	16.063	971732	16.262	119	50 - 200	-0.1990	+/-0.50	
Chrysene-d12	1154613	16.063	971732	16.262	119	50 - 200	-0.1990	+/-0.50	
Perylene-d12	957392	19.006	611159	19.226	157	50 - 200	-0.2200	+/-0.50	
Perylene-d12	957392	19.006	611159	19.226	157	50 - 200	-0.2200	+/-0.50	
LCS Dup (3G08001-BSD1)			Lab File ID: 1gc007.D			Analyzed: 07/08/13 09:51			
1,4-Dichlorobenzene-d4	452409	6.846	482335	6.976	94	50 - 200	-0.1300	+/-0.50	
1,4-Dichlorobenzene-d4	452409	6.846	482335	6.976	94	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	1860042	8.425	1977928	8.555	94	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	1860042	8.425	1977928	8.555	94	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	985942	10.632	1068606	10.762	92	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	985942	10.632	1068606	10.762	92	50 - 200	-0.1300	+/-0.50	
Phenanthrene-d10	1488239	12.494	1699960	12.644	88	50 - 200	-0.1500	+/-0.50	
Phenanthrene-d10	1488239	12.494	1699960	12.644	88	50 - 200	-0.1500	+/-0.50	
Chrysene-d12	884538	16.063	971732	16.262	91	50 - 200	-0.1990	+/-0.50	
Chrysene-d12	884538	16.063	971732	16.262	91	50 - 200	-0.1990	+/-0.50	
Perylene-d12	746976	18.998	611159	19.226	122	50 - 200	-0.2280	+/-0.50	
Perylene-d12	746976	18.998	611159	19.226	122	50 - 200	-0.2280	+/-0.50	
TR-2ND-SB07-04-06-0613 (A303499-07RE1)			Lab File ID: 1gc013.D			Analyzed: 07/08/13 12:42			
1,4-Dichlorobenzene-d4	513786	6.846	482335	6.976	107	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	2115873	8.425	1977928	8.555	107	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	1205502	10.622	1068606	10.762	113	50 - 200	-0.1400	+/-0.50	
Phenanthrene-d10	1933927	12.495	1699960	12.644	114	50 - 200	-0.1490	+/-0.50	
Chrysene-d12	1117671	16.063	971732	16.262	115	50 - 200	-0.1990	+/-0.50	
Perylene-d12	751351	18.998	611159	19.226	123	50 - 200	-0.2280	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24841	Instrument:	OSVGCMS1
Matrix:	Water	Calibration:	1307010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB04-0.5-01-0613 (A303499-14RE1)			Lab File ID: 1gc014.D			Analyzed: 07/08/13 13:10			
1,4-Dichlorobenzene-d4	479390	6.846	482335	6.976	99	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	1972377	8.425	1977928	8.555	100	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	1131185	10.622	1068606	10.762	106	50 - 200	-0.1400	+/-0.50	
Phenanthrene-d10	1876276	12.495	1699960	12.644	110	50 - 200	-0.1490	+/-0.50	
Chrysene-d12	1229951	16.063	971732	16.262	127	50 - 200	-0.1990	+/-0.50	
Perylene-d12	529097	18.998	611159	19.226	87	50 - 200	-0.2280	+/-0.50	
TR-2ND-SB05-0.5-01-0613 (A303499-17RE1)			Lab File ID: 1gc015.D			Analyzed: 07/08/13 13:39			
1,4-Dichlorobenzene-d4	394994	6.846	482335	6.976	82	50 - 200	-0.1300	+/-0.50	
Naphthalene-d8	1604805	8.425	1977928	8.555	81	50 - 200	-0.1300	+/-0.50	
Acenaphthene-d10	928527	10.622	1068606	10.762	87	50 - 200	-0.1400	+/-0.50	
Phenanthrene-d10	1522489	12.494	1699960	12.644	90	50 - 200	-0.1500	+/-0.50	
Chrysene-d12	916916	16.063	971732	16.262	94	50 - 200	-0.1990	+/-0.50	
Perylene-d12	469792	18.997	611159	19.226	77	50 - 200	-0.2290	+/-0.50	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24782	Instrument:	OSVGCMS1
		Calibration:	1307010

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24782-TUN1	1g1001.D	07/01/13 12:26
Cal Standard	AA24782-CAL1	1g1008.D	07/01/13 15:32
Cal Standard	AA24782-CAL2	1g1009.D	07/01/13 16:00
Cal Standard	AA24782-CAL3	1g1010.D	07/01/13 16:29
Cal Standard	AA24782-CAL4	1g1012.D	07/01/13 17:25
Cal Standard	AA24782-CAL5	1g1013.D	07/01/13 17:53
Secondary Cal Check	AA24782-SCV1	1g1014.D	07/01/13 18:22

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24784	Instrument:	OSVGCMS1
		Calibration:	1307010

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24784-TUN1	1g2001.D	07/02/13 08:56
Cal Standard	AA24784-CAL1	1g2002.D	07/02/13 09:09
Cal Standard	AA24784-CAL2	1g2003.D	07/02/13 09:38
Cal Standard	AA24784-CAL3	1g2004.D	07/02/13 10:06
Cal Standard	AA24784-CAL4	1g2005.D	07/02/13 10:35
Cal Standard	AA24784-CAL5	1g2006.D	07/02/13 11:03
Cal Standard	AA24784-CAL6	1g2007.D	07/02/13 11:32
Cal Standard	AA24784-CAL7	1g2008.D	07/02/13 12:00
Cal Standard	AA24784-CAL8	1g2009.D	07/02/13 12:28
Secondary Cal Check	AA24784-SCV1	1g2010.D	07/02/13 12:57

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24827

Instrument: OSVGCMS1

Calibration: 1307010

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24827-TUN1	1ga001.D	07/06/13 10:19
Calibration Check	AA24827-CCV1	1ga002.D	07/06/13 11:01
Calibration Check	AA24827-CCV2	1ga003.D	07/06/13 11:30
Instrument RL Check	AA24827-CRL1	1ga004.D	07/06/13 11:58
Blank	3F21017-BLK1	1ga005.D	07/06/13 12:26
Blank	3F21017-BLK1	1ga005.D	07/06/13 12:26
LCS	3F21017-BS1	1ga006.D	07/06/13 12:55
TR-5TH-SB05-0.5-01-0613	3F21017-MS1	1ga007.D	07/06/13 13:23
TR-5TH-SB05-0.5-01-0613	3F21017-MSD1	1ga008.D	07/06/13 13:51
TR-2ND-SB07-0.5-01-0613	A303499-06	1ga023.D	07/06/13 20:57
TR-2ND-SB07-04-06-0613	A303499-07	1ga024.D	07/06/13 21:25
TR-2ND-SB06-0.5-01-0613	A303499-09	1ga025.D	07/06/13 21:54

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24837

Instrument: OSVGCMS1

Calibration: 1307010

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24837-TUN1	1gb001.D	07/07/13 07:26
Calibration Check	AA24837-CCV1	1gb002.D	07/07/13 07:39
Calibration Check	AA24837-CCV2	1gb003.D	07/07/13 08:08
Instrument RL Check	AA24837-CRL1	1gb004.D	07/07/13 08:36
Blank	3F24010-BLK1	1gb005.D	07/07/13 09:04
Blank	3F24010-BLK1	1gb005.D	07/07/13 09:04
LCS	3F24010-BS1	1gb006.D	07/07/13 09:32
LCS Dup	3F24010-BSD1	1gb007.D	07/07/13 10:01
TR-2ND-SB07-GW-0613	A303499-08	1gb008.D	07/07/13 10:29
TR-2ND-SB06-05-07-0613	A303499-10	1gb009.D	07/07/13 10:58
TR-2ND-SB06-GW-0613	A303499-13	1gb010.D	07/07/13 11:26
TR-2ND-SB04-GW-0613	A303499-16	1gb011.D	07/07/13 11:54
TR-2ND-SB06D-05-07-0613	A303499-12	1gb017.D	07/07/13 14:44
TR-2ND-SB04-04-06-0613	A303499-15	1gb018.D	07/07/13 15:13
TR-2ND-SB05-03-05-0613	A303499-18	1gb019.D	07/07/13 15:41
TR-2ND-SB03-0.5-01-0613	A303499-19	1gb020.D	07/07/13 16:09
TR-2ND-SB03-04-06-0613	A303499-20	1gb021.D	07/07/13 16:37
TR-2ND-SB02-0.5-1-0613	A303499-21	1gb022.D	07/07/13 17:06
TR-2ND-SB02-06-08-0613	A303499-22	1gb023.D	07/07/13 17:34
TR-2ND-SB06D-0.5-01-0613	A303499-11	1gb024.D	07/07/13 18:02
TR-2ND-SB04-0.5-01-0613	A303499-14	1gb025.D	07/07/13 18:31
TR-2ND-SB05-0.5-01-0613	A303499-17	1gb026.D	07/07/13 18:58

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24841

Instrument: OSVGCMS1

Calibration: 1307010

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24841-TUN1	1gc001.D	07/08/13 07:16
Calibration Check	AA24841-CCV1	1gc002.D	07/08/13 07:29
Calibration Check	AA24841-CCV2	1gc003.D	07/08/13 07:58
Instrument RL Check	AA24841-CRL1	1gc004.D	07/08/13 08:26
Blank	3G08001-BLK1	1gc005.D	07/08/13 08:54
Blank	3G08001-BLK1	1gc005.D	07/08/13 08:54
LCS	3G08001-BS1	1gc006.D	07/08/13 09:23
LCS Dup	3G08001-BSD1	1gc007.D	07/08/13 09:51
TR-2ND-SB07-04-06-0613	A303499-07RE1	1gc013.D	07/08/13 12:42
TR-2ND-SB04-0.5-01-0613	A303499-14RE1	1gc014.D	07/08/13 13:10
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	1gc015.D	07/08/13 13:39

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	1g1001.D	Injection Date:	07/01/13
Instrument ID:	OSVGCMS1	Injection Time:	12:26
Sequence:	AA24782	Lab Sample ID:	AA24782-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	45.6	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.343	PASS
127	10 - 80% of 198	49.4	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.95	PASS
275	10 - 60% of 198	25.4	PASS
365	1 - 200% of 198	2.14	PASS
441	0.1 - 24% of 442	15.8	PASS
442	50 - 200% of 198	57.9	PASS
443	15 - 24% of 442	19.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	1g2001.D	Injection Date:	07/02/13
Instrument ID:	OSVGCMS1	Injection Time:	08:56
Sequence:	AA24784	Lab Sample ID:	AA24784-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	45.1	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.352	PASS
127	10 - 80% of 198	50.1	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.82	PASS
275	10 - 60% of 198	25	PASS
365	1 - 200% of 198	2.55	PASS
441	0.1 - 24% of 442	14.9	PASS
442	50 - 200% of 198	61.6	PASS
443	15 - 24% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	1ga001.D	Injection Date:	07/06/13
Instrument ID:	OSVGCMS1	Injection Time:	10:19
Sequence:	AA24827	Lab Sample ID:	AA24827-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	42	PASS
68	Less than 2% of 69	0.499	PASS
70	Less than 2% of 69	0.491	PASS
127	10 - 80% of 198	49.3	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.7	PASS
275	10 - 60% of 198	25.2	PASS
365	1 - 200% of 198	2.48	PASS
441	0.1 - 24% of 442	15.2	PASS
442	50 - 200% of 198	61.5	PASS
443	15 - 24% of 442	19.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	1gb001.D	Injection Date:	07/07/13
Instrument ID:	OSVGCMS1	Injection Time:	07:26
Sequence:	AA24837	Lab Sample ID:	AA24837-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	43.7	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.21	PASS
127	10 - 80% of 198	50.8	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.92	PASS
275	10 - 60% of 198	24.8	PASS
365	1 - 200% of 198	2.3	PASS
441	0.1 - 24% of 442	15	PASS
442	50 - 200% of 198	58.7	PASS
443	15 - 24% of 442	20.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	1gc001.D	Injection Date:	07/08/13
Instrument ID:	OSVGCMS1	Injection Time:	07:16
Sequence:	AA24841	Lab Sample ID:	AA24841-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	42.4	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.748	PASS
127	10 - 80% of 198	48.5	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.01	PASS
275	10 - 60% of 198	24.9	PASS
365	1 - 200% of 198	2.54	PASS
441	0.1 - 24% of 442	15.1	PASS
442	50 - 200% of 198	60.5	PASS
443	15 - 24% of 442	19.6	PASS

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1ga002.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24827	Injection Date:	07/06/13
Lab Sample ID:	AA24827-CCV1	Injection Time:	11:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.0	52	1.875929	1.93278		3.0	20
Bis(2-chloroethyl)ether	A	50.0	51	1.457438	1.482919		1.7	20
2-Chlorophenol	A	50.0	52	1.515642	1.569844		3.6	20
2-Methylphenol	A	50.0	53	1.278159	1.356227		6.1	20
Bis(2-chloroisopropyl)ether	A	50.0	53	1.818803	1.930329		6.1	20
Acetophenone	A	50.0	53	2.277212	2.432161		6.8	20
3 & 4-Methylphenol	A	100	110	1.585285	1.820194		14.8	20
N-Nitroso-di-n-propylamine	A	50.0	57	1.166794	1.320723	0.05	13.2	20
Hexachloroethane	A	50.0	51	0.7184228	0.7346461		2.3	20
Nitrobenzene	A	50.0	49	0.4218952	0.4138381		-1.9	20
Isophorone	A	50.0	54	0.691779	0.7471199		8.0	20
2-Nitrophenol	A	50.0	49	0.1907451	0.188409		-1.2	20
2,4-Dimethylphenol	A	50.0	52	0.3435513	0.3555648		3.5	20
Bis(2-chloroethoxy)methane	A	50.0	48	0.4174802	0.4038941		-3.3	20
2,4-Dichlorophenol	A	50.0	51	0.2878	0.2921851		1.5	20
4-Chloroaniline	A	50.0	51	0.4452145	0.4502439		1.1	20
Hexachlorobutadiene	A	50.0	49	0.1398096	0.1357796		-2.9	20
4-Chloro-3-methylphenol	A	50.0	54	0.3271708	0.3533748		8.0	20
Hexachlorocyclopentadiene	A	50.0	47	0.1842226	0.1733299	0.05	-5.9	20
1,2,4,5-Tetrachlorobenzene	A	50.0	49	0.6744	0.6672927		-1.1	20
2,4,6-Trichlorophenol	A	50.0	50	0.3904941	0.3920722		0.4	20
2,4,5-Trichlorophenol	A	50.0	49	0.4235612	0.4154847		-1.9	20
2-Chloronaphthalene	A	50.0	48	1.221657	1.180311		-3.4	20
2-Nitroaniline	A	50.0	51	0.4055269	0.4115939		1.5	20
Dimethylphthalate	A	50.0	51	1.391808	1.421029		2.1	20
2,6-Dinitrotoluene	A	50.0	49	0.308243	0.2992854		-2.9	20
3-Nitroaniline	A	50.0	49	0.300334	0.2923202		-2.7	20
2,4-Dinitrophenol	Q	50.0	47	0.1845803	0.1956923	0.05	-5.8	20
4-Nitrophenol	A	50.0	52	0.1954987	0.2015252	0.05	3.1	20

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1ga002.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24827	Injection Date:	07/06/13
Lab Sample ID:	AA24827-CCV1	Injection Time:	11:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.0	49	1.674154	1.654386		-1.2	20
2,4-Dinitrotoluene	A	50.0	52	0.40723	0.4203988		3.2	20
2,3,4,6-Tetrachlorophenol	A	50.0	50	0.3306237	0.3336421		0.9	20
Diethylphthalate	A	50.0	49	1.378758	1.344276		-2.5	20
4-Chlorophenyl-phenylether	A	50.0	48	0.6822569	0.6597221		-3.3	20
4-Nitroaniline	A	50.0	50	0.3012284	0.3031298		0.6	20
2-Methyl-4,6-dinitrophenol	A	50.0	51	0.2339568	0.2366361		1.1	20
N-nitrosodiphenylamine/Diphenylam	A	100	100	1.129533	1.146963		1.5	20
4-Bromophenyl-phenylether	A	50.0	45	0.2542678	0.2313089		-9.0	20
Hexachlorobenzene	A	50.0	47	0.2483079	0.2324869		-6.4	20
Pentachlorophenol	A	50.0	50	0.143981	0.1489945		3.5	20
Carbazole	A	50.0	52	0.9408388	0.9694028		3.0	20
Di-n-butylphthalate	A	50.0	51	1.268123	1.287009		1.5	20
Butylbenzylphthalate	A	50.0	54	0.3508956	0.3788855		8.0	20
3,3'-Dichlorobenzidine	A	50.0	52	0.3554215	0.3669362		3.2	20
Bis(2-ethylhexyl)phthalate	A	50.0	50	0.7653807	0.7585493		-0.9	20
Di-n-octylphthalate	A	50.0	50	1.174516	1.183287		0.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1ga003.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24827	Injection Date:	07/06/13
Lab Sample ID:	AA24827-CCV2	Injection Time:	11:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.0	51	1.13094	1.144922		1.2	20
Caprolactam	A	50.0	58	8.620948E-02	0.1004603		16.5	20
1,1'-Biphenyl	A	50.0	46	1.590092	1.457867		-8.3	20
Atrazine	A	50.0	57	0.3411038	0.390204		14.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1gb002.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24837	Injection Date:	07/07/13
Lab Sample ID:	AA24837-CCV1	Injection Time:	07:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.0	52	1.875929	1.932711		3.0	20
Bis(2-chloroethyl)ether	A	50.0	51	1.457438	1.492769		2.4	20
2-Chlorophenol	A	50.0	52	1.515642	1.56213		3.1	20
2-Methylphenol	A	50.0	52	1.278159	1.340906		4.9	20
Bis(2-chloroisopropyl)ether	A	50.0	51	1.818803	1.871607		2.9	20
Acetophenone	A	50.0	54	2.277212	2.439829		7.1	20
3 & 4-Methylphenol	A	100	110	1.585285	1.737619		9.6	20
N-Nitroso-di-n-propylamine	A	50.0	54	1.166794	1.248492	0.05	7.0	20
Hexachloroethane	A	50.0	50	0.7184228	0.7114295		-1.0	20
Nitrobenzene	A	50.0	47	0.4218952	0.3971814		-5.9	20
Isophorone	A	50.0	54	0.691779	0.7433627		7.5	20
2-Nitrophenol	A	50.0	50	0.1907451	0.1902638		-0.3	20
2,4-Dimethylphenol	A	50.0	51	0.3435513	0.3523175		2.6	20
Bis(2-chloroethoxy)methane	A	50.0	51	0.4174802	0.4281819		2.6	20
2,4-Dichlorophenol	A	50.0	52	0.2878	0.3015854		4.8	20
4-Chloroaniline	A	50.0	51	0.4452145	0.4561726		2.5	20
Hexachlorobutadiene	A	50.0	51	0.1398096	0.1418563		1.5	20
4-Chloro-3-methylphenol	A	50.0	54	0.3271708	0.3549606		8.5	20
Hexachlorocyclopentadiene	A	50.0	44	0.1842226	0.1607038	0.05	-12.8	20
1,2,4,5-Tetrachlorobenzene	A	50.0	48	0.6744	0.647318		-4.0	20
2,4,6-Trichlorophenol	A	50.0	49	0.3904941	0.3853377		-1.3	20
2,4,5-Trichlorophenol	A	50.0	51	0.4235612	0.4289013		1.3	20
2-Chloronaphthalene	A	50.0	48	1.221657	1.176853		-3.7	20
2-Nitroaniline	A	50.0	50	0.4055269	0.4028318		-0.7	20
Dimethylphthalate	A	50.0	51	1.391808	1.418143		1.9	20
2,6-Dinitrotoluene	A	50.0	52	0.308243	0.3222001		4.5	20
3-Nitroaniline	A	50.0	51	0.300334	0.3075728		2.4	20
2,4-Dinitrophenol	Q	50.0	47	0.1845803	0.1967976	0.05	-5.4	20
4-Nitrophenol	A	50.0	56	0.1954987	0.2191713	0.05	12.1	20

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1gb002.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24837	Injection Date:	07/07/13
Lab Sample ID:	AA24837-CCV1	Injection Time:	07:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.0	49	1.674154	1.638601		-2.1	20
2,4-Dinitrotoluene	A	50.0	54	0.40723	0.4430129		8.8	20
2,3,4,6-Tetrachlorophenol	A	50.0	52	0.3306237	0.3414576		3.3	20
Diethylphthalate	A	50.0	51	1.378758	1.402519		1.7	20
4-Chlorophenyl-phenylether	A	50.0	53	0.6822569	0.7199163		5.5	20
4-Nitroaniline	A	50.0	52	0.3012284	0.3112913		3.3	20
2-Methyl-4,6-dinitrophenol	A	50.0	49	0.2339568	0.2301183		-1.6	20
N-nitrosodiphenylamine/Diphenylam	A	100	100	1.129533	1.162866		3.0	20
4-Bromophenyl-phenylether	A	50.0	47	0.2542678	0.2411229		-5.2	20
Hexachlorobenzene	A	50.0	55	0.2483079	0.273447		10.1	20
Pentachlorophenol	A	50.0	50	0.143981	0.1486705		3.3	20
Carbazole	A	50.0	55	0.9408388	1.037394		10.3	20
Di-n-butylphthalate	A	50.0	53	1.268123	1.352181		6.6	20
Butylbenzylphthalate	A	50.0	59	0.3508956	0.4160827		18.6	20
3,3'-Dichlorobenzidine	A	50.0	51	0.3554215	0.3617672		1.8	20
Bis(2-ethylhexyl)phthalate	A	50.0	51	0.7653807	0.782852		2.3	20
Di-n-octylphthalate	A	50.0	51	1.174516	1.198805		2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1gb003.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24837	Injection Date:	07/07/13
Lab Sample ID:	AA24837-CCV2	Injection Time:	08:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.0	50	1.13094	1.121517		-0.8	20
Caprolactam	A	50.0	59	8.620948E-02	0.101739		18.0	20
1,1'-Biphenyl	A	50.0	46	1.590092	1.45065		-8.8	20
Atrazine	A	50.0	58	0.3411038	0.3941837		15.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1gc002.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24841	Injection Date:	07/08/13
Lab Sample ID:	AA24841-CCV1	Injection Time:	07:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.0	50	1.875929	1.865328		-0.6	20
Bis(2-chloroethyl)ether	A	50.0	51	1.457438	1.495486		2.6	20
2-Chlorophenol	A	50.0	51	1.515642	1.542473		1.8	20
2-Methylphenol	A	50.0	50	1.278159	1.285856		0.6	20
Bis(2-chloroisopropyl)ether	A	50.0	52	1.818803	1.873962		3.0	20
Acetophenone	A	50.0	52	2.277212	2.387868		4.9	20
3 & 4-Methylphenol	A	100	110	1.585285	1.768905		11.6	20
N-Nitroso-di-n-propylamine	A	50.0	52	1.166794	1.214787	0.05	4.1	20
Hexachloroethane	A	50.0	50	0.7184228	0.7191995		0.1	20
Nitrobenzene	A	50.0	48	0.4218952	0.4072124		-3.5	20
Isophorone	A	50.0	53	0.691779	0.7336994		6.1	20
2-Nitrophenol	A	50.0	51	0.1907451	0.1931027		1.2	20
2,4-Dimethylphenol	A	50.0	50	0.3435513	0.344797		0.4	20
Bis(2-chloroethoxy)methane	A	50.0	48	0.4174802	0.3972649		-4.8	20
2,4-Dichlorophenol	A	50.0	50	0.2878	0.2881051		0.1	20
4-Chloroaniline	A	50.0	48	0.4452145	0.4296746		-3.5	20
Hexachlorobutadiene	A	50.0	50	0.1398096	0.1402607		0.3	20
4-Chloro-3-methylphenol	A	50.0	50	0.3271708	0.3290861		0.6	20
Hexachlorocyclopentadiene	A	50.0	44	0.1842226	0.1602751	0.05	-13.0	20
1,2,4,5-Tetrachlorobenzene	A	50.0	51	0.6744	0.6908052		2.4	20
2,4,6-Trichlorophenol	A	50.0	51	0.3904941	0.3971787		1.7	20
2,4,5-Trichlorophenol	A	50.0	49	0.4235612	0.4140202		-2.3	20
2-Chloronaphthalene	A	50.0	50	1.221657	1.219697		-0.2	20
2-Nitroaniline	A	50.0	50	0.4055269	0.4026786		-0.7	20
Dimethylphthalate	A	50.0	52	1.391808	1.435741		3.2	20
2,6-Dinitrotoluene	A	50.0	49	0.308243	0.3011241		-2.3	20
3-Nitroaniline	A	50.0	46	0.300334	0.2760876		-8.1	20
2,4-Dinitrophenol	Q	50.0	46	0.1845803	0.1891955	0.05	-8.5	20
4-Nitrophenol	A	50.0	49	0.1954987	0.1919838	0.05	-1.8	20

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1gc002.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24841	Injection Date:	07/08/13
Lab Sample ID:	AA24841-CCV1	Injection Time:	07:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.0	48	1.674154	1.618953		-3.3	20
2,4-Dinitrotoluene	A	50.0	51	0.40723	0.4146345		1.8	20
2,3,4,6-Tetrachlorophenol	A	50.0	51	0.3306237	0.3401116		2.9	20
Diethylphthalate	A	50.0	51	1.378758	1.409566		2.2	20
4-Chlorophenyl-phenylether	A	50.0	50	0.6822569	0.6834109		0.2	20
4-Nitroaniline	A	50.0	46	0.3012284	0.2794123		-7.2	20
2-Methyl-4,6-dinitrophenol	A	50.0	47	0.2339568	0.21934		-6.2	20
N-nitrosodiphenylamine/Diphenylam	A	100	100	1.129533	1.131253		0.2	20
4-Bromophenyl-phenylether	A	50.0	48	0.2542678	0.2444932		-3.8	20
Hexachlorobenzene	A	50.0	59	0.2483079	0.2914861		17.4	20
Pentachlorophenol	A	50.0	54	0.143981	0.1597558		11.0	20
Carbazole	A	50.0	46	0.9408388	0.8600292		-8.6	20
Di-n-butylphthalate	A	50.0	51	1.268123	1.302515		2.7	20
Butylbenzylphthalate	A	50.0	46	0.3508956	0.3251049		-7.3	20
3,3'-Dichlorobenzidine	A	50.0	51	0.3554215	0.3651804		2.7	20
Bis(2-ethylhexyl)phthalate	A	50.0	63	0.7653807	0.9597327		25.4	20 *
Di-n-octylphthalate	A	50.0	56	1.174516	1.311732		11.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS1	Calibration:	1307010
Lab File ID:	1gc003.D	Calibration Date:	07/03/13 12:33
Sequence:	AA24841	Injection Date:	07/08/13
Lab Sample ID:	AA24841-CCV2	Injection Time:	07:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.0	52	1.13094	1.176545		4.0	20
Caprolactam	A	50.0	47	8.620948E-02	8.052285E-02		-6.6	20
1,1'-Biphenyl	A	50.0	48	1.590092	1.541423		-3.1	20
Atrazine	A	50.0	56	0.3411038	0.381249		11.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24782		
Calibration:	1307010	Instrument:	OSVGCMS1

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3G0014	bna 10ug/ml tcl	AA24782-CAL1	1g1008.D	07/01/13 15:32
A3G0015	bna 20ug/ml tcl	AA24782-CAL2	1g1009.D	07/01/13 16:00
A3G0016	bna 50ug/ml tcl	AA24782-CAL3	1g1010.D	07/01/13 16:29
A3G0018	bna 80ug/ml tcl	AA24782-CAL4	1g1012.D	07/01/13 17:25
A3D0410	bn tcl 100ug/ml	AA24782-CAL5	1g1013.D	07/01/13 17:53
A3G0019	bna (icv) 50ug/ml tcl	AA24782-SCV1	1g1014.D	07/01/13 18:22

INITIAL CALIBRATION STANDARDS

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24784		
Calibration:	1307010	Instrument:	OSVGCMS1

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3G0028	bna 5ug/ml	AA24784-CAL1	1g2002.D	07/02/13 09:09
A3G0029	bna 10ug/ml	AA24784-CAL2	1g2003.D	07/02/13 09:38
A3G0030	bna 20ug/ml	AA24784-CAL3	1g2004.D	07/02/13 10:06
A3G0031	bna 40ug/ml	AA24784-CAL4	1g2005.D	07/02/13 10:35
A3G0032	bna 50ug/ml	AA24784-CAL5	1g2006.D	07/02/13 11:03
A3G0033	bna 60ug/ml	AA24784-CAL6	1g2007.D	07/02/13 11:32
A3G0034	bna 80ug/ml	AA24784-CAL7	1g2008.D	07/02/13 12:00
A3F0122	BNA 100ug/ml Parent working standard	AA24784-CAL8	1g2009.D	07/02/13 12:28
A3G0059	BNA (ICV) 50ug/ml	AA24784-SCV1	1g2010.D	07/02/13 12:57

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Soil

Calibration Date: 07/03/13 12:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde												
Benzaldehyde												
Phenol	5	1.756336	10	1.848182	20	1.763384	40	1.9118	50	1.790274	60	1.909503
Phenol	5	1.756336	10	1.848182	20	1.763384	40	1.9118	50	1.790274	60	1.909503
Bis(2-chloroethyl)ether	5	1.412006	10	1.449069	20	1.37223	40	1.46259	50	1.417844	60	1.42329
Bis(2-chloroethyl)ether	5	1.412006	10	1.449069	20	1.37223	40	1.46259	50	1.417844	60	1.42329
2-Chlorophenol	5	1.410405	10	1.47317	20	1.436309	40	1.559321	50	1.48839	60	1.501734
2-Chlorophenol	5	1.410405	10	1.47317	20	1.436309	40	1.559321	50	1.48839	60	1.501734
2-Methylphenol	5	1.129917	10	1.281075	20	1.194018	40	1.311946	50	1.237678	60	1.273852
2-Methylphenol	5	1.129917	10	1.281075	20	1.194018	40	1.311946	50	1.237678	60	1.273852
Bis(2-chloroisopropyl)ether	5	1.734305	10	1.861053	20	1.672534	40	1.88926	50	1.753994	60	1.767022
Bis(2-chloroisopropyl)ether	5	1.734305	10	1.861053	20	1.672534	40	1.88926	50	1.753994	60	1.767022
Acetophenone	5	2.004763	10	2.19316	20	2.068776	40	2.344458	50	2.203239	60	2.311921
Acetophenone	5	2.004763	10	2.19316	20	2.068776	40	2.344458	50	2.203239	60	2.311921
3 & 4-Methylphenol	10	1.300603	20	1.423232	40	1.413821	80	1.688401	100	1.60248	120	1.656998
3 & 4-Methylphenol	10	1.300603	20	1.423232	40	1.413821	80	1.688401	100	1.60248	120	1.656998
N-Nitroso-di-n-propylamine	5	1.033251	10	1.117669	20	1.079741	40	1.250596	50	1.142633	60	1.158124
N-Nitroso-di-n-propylamine	5	1.033251	10	1.117669	20	1.079741	40	1.250596	50	1.142633	60	1.158124
Hexachloroethane	5	0.686465	10	0.7267994	20	0.6810723	40	0.7242032	50	0.7044034	60	0.6919942
Hexachloroethane	5	0.686465	10	0.7267994	20	0.6810723	40	0.7242032	50	0.7044034	60	0.6919942
Nitrobenzene	5	0.4162817	10	0.4468357	20	0.4007189	40	0.4355892	50	0.4067841	60	0.4044363
Nitrobenzene	5	0.4162817	10	0.4468357	20	0.4007189	40	0.4355892	50	0.4067841	60	0.4044363
Isophorone	5	0.5881984	10	0.6757542	20	0.6446962	40	0.7330624	50	0.691537	60	0.6897925
Isophorone	5	0.5881984	10	0.6757542	20	0.6446962	40	0.7330624	50	0.691537	60	0.6897925
2-Nitrophenol	5	0.1571007	10	0.1774058	20	0.1811498	40	0.2003834	50	0.1886366	60	0.1939267
2-Nitrophenol	5	0.1571007	10	0.1774058	20	0.1811498	40	0.2003834	50	0.1886366	60	0.1939267
2,4-Dimethylphenol	5	0.3191417	10	0.3315241	20	0.3277134	40	0.3517311	50	0.3399841	60	0.3397871
2,4-Dimethylphenol	5	0.3191417	10	0.3315241	20	0.3277134	40	0.3517311	50	0.3399841	60	0.3397871
Bis(2-chloroethoxy)methane	5	0.4013712	10	0.4120989	20	0.3861931	40	0.4503326	50	0.3976323	60	0.4092901
Bis(2-chloroethoxy)methane	5	0.4013712	10	0.4120989	20	0.3861931	40	0.4503326	50	0.3976323	60	0.4092901
2,4-Dichlorophenol	5	0.2591512	10	0.2715774	20	0.2672783	40	0.2943037	50	0.2823739	60	0.2886282

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Soil

Calibration Date: 07/03/13 12:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2,4-Dichlorophenol	5	0.2591512	10	0.2715774	20	0.2672783	40	0.2943037	50	0.2823739	60	0.2886282
4-Chloroaniline	5	0.3891372	10	0.417103	20	0.4190097	40	0.4603977	50	0.4353226	60	0.4482621
4-Chloroaniline	5	0.3891372	10	0.417103	20	0.4190097	40	0.4603977	50	0.4353226	60	0.4482621
Hexachlorobutadiene	5	0.1397075	10	0.140524	20	0.1330251	40	0.1425202	50	0.1334131	60	0.13436
Hexachlorobutadiene	5	0.1397075	10	0.140524	20	0.1330251	40	0.1425202	50	0.1334131	60	0.13436
Caprolactam												
Caprolactam												
4-Chloro-3-methylphenol	5	0.2760568	10	0.3110291	20	0.2933041	40	0.3340162	50	0.3287922	60	0.3296945
4-Chloro-3-methylphenol	5	0.2760568	10	0.3110291	20	0.2933041	40	0.3340162	50	0.3287922	60	0.3296945
Hexachlorocyclopentadiene	5	0.1447125	10	0.1602998	20	0.1666154	40	0.1921344	50	0.1870398	60	0.1926811
Hexachlorocyclopentadiene	5	0.1447125	10	0.1602998	20	0.1666154	40	0.1921344	50	0.1870398	60	0.1926811
1,2,4,5-Tetrachlorobenzene	5	0.6121571	10	0.6243776	20	0.643067	40	0.7082695	50	0.6547049	60	0.6821204
1,2,4,5-Tetrachlorobenzene	5	0.6121571	10	0.6243776	20	0.643067	40	0.7082695	50	0.6547049	60	0.6821204
2,4,6-Trichlorophenol	5	0.323023	10	0.3681284	20	0.3668743	40	0.4080095	50	0.3923055	60	0.3916497
2,4,6-Trichlorophenol	5	0.323023	10	0.3681284	20	0.3668743	40	0.4080095	50	0.3923055	60	0.3916497
2,4,5-Trichlorophenol	5	0.3638731	10	0.3924381	20	0.3911094	40	0.4323321	50	0.4270491	60	0.4312187
2,4,5-Trichlorophenol	5	0.3638731	10	0.3924381	20	0.3911094	40	0.4323321	50	0.4270491	60	0.4312187
1,1'-Biphenyl												
1,1'-Biphenyl												
2-Chloronaphthalene	5	1.140347	10	1.135655	20	1.147264	40	1.266269	50	1.188857	60	1.229522
2-Chloronaphthalene	5	1.140347	10	1.135655	20	1.147264	40	1.266269	50	1.188857	60	1.229522
2-Nitroaniline	5	0.318258	10	0.3931774	20	0.3774773	40	0.4320359	50	0.4161092	60	0.4117965
2-Nitroaniline	5	0.318258	10	0.3931774	20	0.3774773	40	0.4320359	50	0.4161092	60	0.4117965
Dimethylphthalate	5	1.250224	10	1.354438	20	1.258266	40	1.450369	50	1.404548	60	1.372527
Dimethylphthalate	5	1.250224	10	1.354438	20	1.258266	40	1.450369	50	1.404548	60	1.372527
2,6-Dinitrotoluene	5	0.2786873	10	0.2952527	20	0.2796829	40	0.3166871	50	0.3033672	60	0.3093146
2,6-Dinitrotoluene	5	0.2786873	10	0.2952527	20	0.2796829	40	0.3166871	50	0.3033672	60	0.3093146
3-Nitroaniline	5	0.2364873	10	0.2763906	20	0.28417	40	0.3155287	50	0.3015862	60	0.3042325
3-Nitroaniline	5	0.2364873	10	0.2763906	20	0.28417	40	0.3155287	50	0.3015862	60	0.3042325
2,4-Dinitrophenol	5	8.878222E-02	10	0.1321859	20	0.1575337	40	0.2033295	50	0.2095268	60	0.213712
2,4-Dinitrophenol	5	8.878222E-02	10	0.1321859	20	0.1575337	40	0.2033295	50	0.2095268	60	0.213712

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Water

Calibration Date: 07/03/13 12:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
4-Nitrophenol	5	0.158857	10	0.1809708	20	0.1842793	40	0.2093084	50	0.2003724	60	0.1934725
4-Nitrophenol	5	0.158857	10	0.1809708	20	0.1842793	40	0.2093084	50	0.2003724	60	0.1934725
Dibenzofuran	5	1.529808	10	1.609476	20	1.537931	40	1.710861	50	1.646627	60	1.691017
Dibenzofuran	5	1.529808	10	1.609476	20	1.537931	40	1.710861	50	1.646627	60	1.691017
2,4-Dinitrotoluene	5	0.3254408	10	0.3816451	20	0.366806	40	0.424	50	0.4205501	60	0.4230883
2,4-Dinitrotoluene	5	0.3254408	10	0.3816451	20	0.366806	40	0.424	50	0.4205501	60	0.4230883
2,3,4,6-Tetrachlorophenol	5	0.2696811	10	0.3018336	20	0.2980327	40	0.3466496	50	0.3351462	60	0.3374285
2,3,4,6-Tetrachlorophenol	5	0.2696811	10	0.3018336	20	0.2980327	40	0.3466496	50	0.3351462	60	0.3374285
Diethylphthalate	5	1.285161	10	1.390985	20	1.269084	40	1.418202	50	1.342308	60	1.346979
Diethylphthalate	5	1.285161	10	1.390985	20	1.269084	40	1.418202	50	1.342308	60	1.346979
4-Chlorophenyl-phenylether	5	0.6345919	10	0.6604676	20	0.6246851	40	0.6727308	50	0.6724402	60	0.6728026
4-Chlorophenyl-phenylether	5	0.6345919	10	0.6604676	20	0.6246851	40	0.6727308	50	0.6724402	60	0.6728026
4-Nitroaniline	5	0.2416452	10	0.2839442	20	0.2963057	40	0.3208318	50	0.3079054	60	0.2963193
4-Nitroaniline	5	0.2416452	10	0.2839442	20	0.2963057	40	0.3208318	50	0.3079054	60	0.2963193
2-Methyl-4,6-dinitrophenol	5	~~0.1647604~~	10	0.1914914	20	0.2129781	40	0.24116	50	0.2284711	60	0.2339731
2-Methyl-4,6-dinitrophenol	5	~~0.1647604~~	10	0.1914914	20	0.2129781	40	0.24116	50	0.2284711	60	0.2339731
N-nitrosodiphenylamine/Diphenyla	10	0.9835403	20	1.049195	40	0.9879732	80	1.158572	100	1.121942	120	1.164961
N-nitrosodiphenylamine/Diphenyla	10	0.9835403	20	1.049195	40	0.9879732	80	1.158572	100	1.121942	120	1.164961
4-Bromophenyl-phenylether	5	0.2174701	10	0.2309537	20	0.2325687	40	0.2595449	50	0.2582447	60	0.25964
4-Bromophenyl-phenylether	5	0.2174701	10	0.2309537	20	0.2325687	40	0.2595449	50	0.2582447	60	0.25964
Hexachlorobenzene	5	0.2221007	10	0.222137	20	0.2214633	40	0.2643315	50	0.2462665	60	0.2458478
Hexachlorobenzene	5	0.2221007	10	0.222137	20	0.2214633	40	0.2643315	50	0.2462665	60	0.2458478
Atrazine												
Atrazine												
Pentachlorophenol	5	0.1141345	10	0.1171736	20	0.13187	40	0.1571745	50	0.1462933	60	0.1480274
Pentachlorophenol	5	0.1141345	10	0.1171736	20	0.13187	40	0.1571745	50	0.1462933	60	0.1480274
Carbazole	5	0.8552574	10	0.8378312	20	0.8759333	40	0.9612169	50	0.9185011	60	0.9526032
Carbazole	5	0.8552574	10	0.8378312	20	0.8759333	40	0.9612169	50	0.9185011	60	0.9526032
Di-n-butylphthalate	5	1.095474	10	1.153624	20	1.172077	40	1.401917	50	1.260708	60	1.246843
Di-n-butylphthalate	5	1.095474	10	1.153624	20	1.172077	40	1.401917	50	1.260708	60	1.246843
Butylbenzylphthalate	5	0.2981923	10	0.2932599	20	0.3207975	40	0.3775004	50	0.3494407	60	0.3545

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1307010	Instrument:	OSVGCMS1
Matrix:	Water	Calibration Date:	07/03/13 12:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Butylbenzylphthalate	5	0.2981923	10	0.2932599	20	0.3207975	40	0.3775004	50	0.3494407	60	0.3545
3,3'-Dichlorobenzidine	5	0.2750483	10	0.3232109	20	0.3436396	40	0.3835498	50	0.3632162	60	0.368735
3,3'-Dichlorobenzidine	5	0.2750483	10	0.3232109	20	0.3436396	40	0.3835498	50	0.3632162	60	0.368735
Bis(2-ethylhexyl)phthalate	5	0.5266045	10	0.6540798	20	0.664755	40	0.8510637	50	0.8039896	60	0.8157994
Bis(2-ethylhexyl)phthalate	5	0.5266045	10	0.6540798	20	0.664755	40	0.8510637	50	0.8039896	60	0.8157994
Di-n-octylphthalate	5	~~0.6288374~~	10	0.8470085	20	0.9893723	40	1.28557	50	1.211232	60	1.24325
Di-n-octylphthalate	5	~~0.6288374~~	10	0.8470085	20	0.9893723	40	1.28557	50	1.211232	60	1.24325
2-Fluorophenol	5	1.51563	10	1.628572	20	1.475175	40	1.603037	50	1.529923	60	1.532179
2-Fluorophenol	5	1.51563	10	1.628572	20	1.475175	40	1.603037	50	1.529923	60	1.532179
Phenol-d5	5	1.749023	10	1.872829	20	1.826099	40	2.016495	50	1.90735	60	1.94794
Phenol-d5	5	1.749023	10	1.872829	20	1.826099	40	2.016495	50	1.90735	60	1.94794
Nitrobenzene-d5	5	0.4615209	10	0.488481	20	0.446516	40	0.486011	50	0.4565258	60	0.4602934
Nitrobenzene-d5	5	0.4615209	10	0.488481	20	0.446516	40	0.486011	50	0.4565258	60	0.4602934
2-Fluorobiphenyl	5	1.372745	10	1.385002	20	1.387536	40	1.556769	50	1.468862	60	1.517172
2-Fluorobiphenyl	5	1.372745	10	1.385002	20	1.387536	40	1.556769	50	1.468862	60	1.517172
2,4,6-Tribromophenol	5	0.1353644	10	0.1617146	20	0.1573694	40	0.1793602	50	0.170918	60	0.1721352
2,4,6-Tribromophenol	5	0.1353644	10	0.1617146	20	0.1573694	40	0.1793602	50	0.170918	60	0.1721352
Terphenyl-d14	5	0.6138103	10	0.5232428	20	0.56372	40	0.6175632	50	0.5972437	60	0.589658
Terphenyl-d14	5	0.6138103	10	0.5232428	20	0.56372	40	0.6175632	50	0.5972437	60	0.589658

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Soil

Calibration Date: 07/03/13 12:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde					10	1.069723	20	1.142186	50	1.123305	80	1.171223
Benzaldehyde					10	1.069723	20	1.142186	50	1.123305	80	1.171223
Phenol	80	2.041429	100	1.986526								
Phenol	80	2.041429	100	1.986526								
Bis(2-chloroethyl)ether	80	1.587379	100	1.535093								
Bis(2-chloroethyl)ether	80	1.587379	100	1.535093								
2-Chlorophenol	80	1.641253	100	1.61455								
2-Chlorophenol	80	1.641253	100	1.61455								
2-Methylphenol	80	1.423216	100	1.373571								
2-Methylphenol	80	1.423216	100	1.373571								
Bis(2-chloroisopropyl)ether	80	2.007591	100	1.864666								
Bis(2-chloroisopropyl)ether	80	2.007591	100	1.864666								
Acetophenone	80	2.522479	100	2.5689	10		20		50		80	
Acetophenone	80	2.522479	100	2.5689	10		20		50		80	
3 & 4-Methylphenol	160	1.785028	200	1.811721								
3 & 4-Methylphenol	160	1.785028	200	1.811721								
N-Nitroso-di-n-propylamine	80	1.330526	100	1.221816								
N-Nitroso-di-n-propylamine	80	1.330526	100	1.221816								
Hexachloroethane	80	0.7897678	100	0.7426771								
Hexachloroethane	80	0.7897678	100	0.7426771								
Nitrobenzene	80	0.4543668	100	0.4101487								
Nitrobenzene	80	0.4543668	100	0.4101487								
Isophorone	80	0.8062755	100	0.7049157								
Isophorone	80	0.8062755	100	0.7049157								
2-Nitrophenol	80	0.2178951	100	0.2094629								
2-Nitrophenol	80	0.2178951	100	0.2094629								
2,4-Dimethylphenol	80	0.3786828	100	0.3598458								
2,4-Dimethylphenol	80	0.3786828	100	0.3598458								
Bis(2-chloroethoxy)methane	80	0.4722733	100	0.4106503								
Bis(2-chloroethoxy)methane	80	0.4722733	100	0.4106503								
2,4-Dichlorophenol	80	0.3171482	100	0.3219388								

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Soil

Calibration Date: 07/03/13 12:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2,4-Dichlorophenol	80	0.3171482	100	0.3219388								
4-Chloroaniline	80	0.5023871	100	0.4900963								
4-Chloroaniline	80	0.5023871	100	0.4900963								
Hexachlorobutadiene	80	0.1479834	100	0.1469433								
Hexachlorobutadiene	80	0.1479834	100	0.1469433								
Caprolactam					10	6.743334E-02	20	0.0887659	50	9.080571E-02	80	9.015559E-02
Caprolactam					10	6.743334E-02	20	0.0887659	50	9.080571E-02	80	9.015559E-02
4-Chloro-3-methylphenol	80	0.3790937	100	0.3653794								
4-Chloro-3-methylphenol	80	0.3790937	100	0.3653794								
Hexachlorocyclopentadiene	80	0.2145153	100	0.2157825								
Hexachlorocyclopentadiene	80	0.2145153	100	0.2157825								
1,2,4,5-Tetrachlorobenzene	80	0.7247925	100	0.7457114								
1,2,4,5-Tetrachlorobenzene	80	0.7247925	100	0.7457114								
2,4,6-Trichlorophenol	80	0.4385282	100	0.4354343								
2,4,6-Trichlorophenol	80	0.4385282	100	0.4354343								
2,4,5-Trichlorophenol	80	0.4792689	100	0.4712								
2,4,5-Trichlorophenol	80	0.4792689	100	0.4712								
1,1'-Biphenyl					10	1.513421	20	1.542203	50	1.523492	80	1.712163
1,1'-Biphenyl					10	1.513421	20	1.542203	50	1.523492	80	1.712163
2-Chloronaphthalene	80	1.361385	100	1.303954								
2-Chloronaphthalene	80	1.361385	100	1.303954								
2-Nitroaniline	80	0.4789765	100	0.4163844								
2-Nitroaniline	80	0.4789765	100	0.4163844								
Dimethylphthalate	80	1.565945	100	1.478147								
Dimethylphthalate	80	1.565945	100	1.478147								
2,6-Dinitrotoluene	80	0.3547206	100	0.3282313								
2,6-Dinitrotoluene	80	0.3547206	100	0.3282313								
3-Nitroaniline	80	0.3526204	100	0.3316563								
3-Nitroaniline	80	0.3526204	100	0.3316563								
2,4-Dinitrophenol	80	0.2346734	100	0.2368988								
2,4-Dinitrophenol	80	0.2346734	100	0.2368988								

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Water

Calibration Date: 07/03/13 12:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
4-Nitrophenol	80	0.2291028	100	0.2076265								
4-Nitrophenol	80	0.2291028	100	0.2076265								
Dibenzofuran	80	1.840776	100	1.826734								
Dibenzofuran	80	1.840776	100	1.826734								
2,4-Dinitrotoluene	80	0.4674811	100	0.4488287								
2,4-Dinitrotoluene	80	0.4674811	100	0.4488287								
2,3,4,6-Tetrachlorophenol	80	0.3711788	100	0.3850389								
2,3,4,6-Tetrachlorophenol	80	0.3711788	100	0.3850389								
Diethylphthalate	80	1.569466	100	1.407882								
Diethylphthalate	80	1.569466	100	1.407882								
4-Chlorophenyl-phenylether	80	0.7498592	100	0.7704776								
4-Chlorophenyl-phenylether	80	0.7498592	100	0.7704776								
4-Nitroaniline	80	0.3545913	100	0.3082844								
4-Nitroaniline	80	0.3545913	100	0.3082844								
2-Methyl-4,6-dinitrophenol	80	0.2726421	100	0.2569821								
2-Methyl-4,6-dinitrophenol	80	0.2726421	100	0.2569821								
N-nitrosodiphenylamine/Diphenyla	160	1.266828	200	1.303251								
N-nitrosodiphenylamine/Diphenyla	160	1.266828	200	1.303251								
4-Bromophenyl-phenylether	80	0.2883084	100	0.2874119								
4-Bromophenyl-phenylether	80	0.2883084	100	0.2874119								
Hexachlorobenzene	80	0.2767246	100	0.2875921								
Hexachlorobenzene	80	0.2767246	100	0.2875921								
Atrazine					10	0.3071469	20	0.3217795	50	0.3611378	80	0.3611891
Atrazine					10	0.3071469	20	0.3217795	50	0.3611378	80	0.3611891
Pentachlorophenol	80	0.1576475	100	0.1795269								
Pentachlorophenol	80	0.1576475	100	0.1795269								
Carbazole	80	1.034914	100	1.090453								
Carbazole	80	1.034914	100	1.090453								
Di-n-butylphthalate	80	1.480719	100	1.333625								
Di-n-butylphthalate	80	1.480719	100	1.333625								
Butylbenzylphthalate	80	0.4039179	100	0.4095562								

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Water

Calibration Date: 07/03/13 12:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Butylbenzylphthalate	80	0.4039179	100	0.4095562								
3,3'-Dichlorobenzidine	80	0.3969512	100	0.3890209								
3,3'-Dichlorobenzidine	80	0.3969512	100	0.3890209								
Bis(2-ethylhexyl)phthalate	80	0.9098677	100	0.8968862								
Bis(2-ethylhexyl)phthalate	80	0.9098677	100	0.8968862								
Di-n-octylphthalate	80	1.346548	100	1.298633								
Di-n-octylphthalate	80	1.346548	100	1.298633								
2-Fluorophenol	80	1.675177	100	1.65475								
2-Fluorophenol	80	1.675177	100	1.65475								
Phenol-d5	80	2.088443	100	2.116662								
Phenol-d5	80	2.088443	100	2.116662								
Nitrobenzene-d5	80	0.5265394	100	0.4184151								
Nitrobenzene-d5	80	0.5265394	100	0.4184151								
2-Fluorobiphenyl	80	1.628572	100	1.624955								
2-Fluorobiphenyl	80	1.628572	100	1.624955								
2,4,6-Tribromophenol	80	0.1953888	100	0.1996998								
2,4,6-Tribromophenol	80	0.1953888	100	0.1996998								
Terphenyl-d14	80	0.6788631	100	0.7253206								
Terphenyl-d14	80	0.6788631	100	0.7253206								

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Soil

Calibration Date: 07/03/13 12:33

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde	100	1.148263										
Benzaldehyde	100	1.148263										
Phenol												
Phenol												
Bis(2-chloroethyl)ether												
Bis(2-chloroethyl)ether												
2-Chlorophenol												
2-Chlorophenol												
2-Methylphenol												
2-Methylphenol												
Bis(2-chloroisopropyl)ether												
Bis(2-chloroisopropyl)ether												
Acetophenone	100											
Acetophenone	100											
3 & 4-Methylphenol												
3 & 4-Methylphenol												
N-Nitroso-di-n-propylamine												
N-Nitroso-di-n-propylamine												
Hexachloroethane												
Hexachloroethane												
Nitrobenzene												
Nitrobenzene												
Isophorone												
Isophorone												
2-Nitrophenol												
2-Nitrophenol												

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Water

Calibration Date: 07/03/13 12:33

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2,4-Dimethylphenol												
2,4-Dimethylphenol												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethoxy)methane												
2,4-Dichlorophenol												
2,4-Dichlorophenol												
4-Chloroaniline												
4-Chloroaniline												
Hexachlorobutadiene												
Hexachlorobutadiene												
Caprolactam	100	9.388689E-02										
Caprolactam	100	9.388689E-02										
4-Chloro-3-methylphenol												
4-Chloro-3-methylphenol												
Hexachlorocyclopentadiene												
Hexachlorocyclopentadiene												
1,2,4,5-Tetrachlorobenzene												
1,2,4,5-Tetrachlorobenzene												
2,4,6-Trichlorophenol												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												
2,4,5-Trichlorophenol												
1,1'-Biphenyl	100	1.65918										
1,1'-Biphenyl	100	1.65918										
2-Chloronaphthalene												
2-Chloronaphthalene												

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1307010	Instrument:	OSVGCMS1
Matrix:	Water	Calibration Date:	07/03/13 12:33

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Nitroaniline												
2-Nitroaniline												
Dimethylphthalate												
Dimethylphthalate												
2,6-Dinitrotoluene												
2,6-Dinitrotoluene												
3-Nitroaniline												
3-Nitroaniline												
2,4-Dinitrophenol												
2,4-Dinitrophenol												
4-Nitrophenol												
4-Nitrophenol												
Dibenzofuran												
Dibenzofuran												
2,4-Dinitrotoluene												
2,4-Dinitrotoluene												
2,3,4,6-Tetrachlorophenol												
2,3,4,6-Tetrachlorophenol												
Diethylphthalate												
Diethylphthalate												
4-Chlorophenyl-phenylether												
4-Chlorophenyl-phenylether												
4-Nitroaniline												
4-Nitroaniline												
2-Methyl-4,6-dinitrophenol												
2-Methyl-4,6-dinitrophenol												

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Instrument: OSVGCMS1

Matrix: Water

Calibration Date: 07/03/13 12:33

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-nitrosodiphenylamine/Diphenyla												
N-nitrosodiphenylamine/Diphenyla												
4-Bromophenyl-phenylether												
4-Bromophenyl-phenylether												
Hexachlorobenzene												
Hexachlorobenzene												
Atrazine	100	0.3542659										
Atrazine	100	0.3542659										
Pentachlorophenol												
Pentachlorophenol												
Carbazole												
Carbazole												
Di-n-butylphthalate												
Di-n-butylphthalate												
Butylbenzylphthalate												
Butylbenzylphthalate												
3,3'-Dichlorobenzidine												
3,3'-Dichlorobenzidine												
Bis(2-ethylhexyl)phthalate												
Bis(2-ethylhexyl)phthalate												
Di-n-octylphthalate												
Di-n-octylphthalate												
2-Fluorophenol												
2-Fluorophenol												
Phenol-d5												
Phenol-d5												

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1307010	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration Date:	07/03/13 12:33

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Nitrobenzene-d5												
Nitrobenzene-d5												
2-Fluorobiphenyl												
2-Fluorobiphenyl												
2,4,6-Tribromophenol												
2,4,6-Tribromophenol												
Terphenyl-d14												
Terphenyl-d14												

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration: 1307010
Instrument: OSVGCMS1
Matrix: Soil
Calibration Date: 07/03/13 12:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzaldehyde	1.13094	3.382982	6.446	1.977929E-02			15	
Benzaldehyde	1.13094	3.382982	6.446	1.977929E-02			15	
Phenol	1.875929	5.594898	6.50225	0.2162724			CCC (30)	
Phenol	1.875929	5.594898	6.50225	0.2162724			CCC (30)	
Bis(2-chloroethyl)ether	1.457438	4.856545	6.62225	0.1114138			15	
Bis(2-chloroethyl)ether	1.457438	4.856545	6.62225	0.1114138			15	
2-Chlorophenol	1.515642	5.439434	6.721	0.1119362			15	
2-Chlorophenol	1.515642	5.439434	6.721	0.1119362			15	
2-Methylphenol	1.278159	7.363582	7.23975	0.101478			15	
2-Methylphenol	1.278159	7.363582	7.23975	0.101478			15	
Bis(2-chloroisopropyl)ether	1.818803	5.874422	7.2785	6.550895E-02			15	
Bis(2-chloroisopropyl)ether	1.818803	5.874422	7.2785	6.550895E-02			15	
Acetophenone	2.277212	8.801094	7.456	0.14319			15	
Acetophenone	2.277212	8.801094	7.456	0.14319			15	
3 & 4-Methylphenol	1.585285	11.77582	7.43475	0.2209073			15	
3 & 4-Methylphenol	1.585285	11.77582	7.43475	0.2209073			15	
N-Nitroso-di-n-propylamine	1.166794	8.28047	7.4535	0.223845			SPCC (0.05)	
N-Nitroso-di-n-propylamine	1.166794	8.28047	7.4535	0.223845			SPCC (0.05)	
Hexachloroethane	0.7184228	5.016867	7.60975	6.801559E-02			15	
Hexachloroethane	0.7184228	5.016867	7.60975	6.801559E-02			15	
Nitrobenzene	0.4218952	4.919195	7.67225	9.753898E-02			15	
Nitrobenzene	0.4218952	4.919195	7.67225	9.753898E-02			15	
Isophorone	0.691779	9.173885	7.9585	0.1302492			15	
Isophorone	0.691779	9.173885	7.9585	0.1302492			15	
2-Nitrophenol	0.1907451	10.09776	8.064	0.0564543			CCC (30)	
2-Nitrophenol	0.1907451	10.09776	8.064	0.0564543			CCC (30)	
2,4-Dimethylphenol	0.3435513	5.593418	8.08375	0.1089899			15	
2,4-Dimethylphenol	0.3435513	5.593418	8.08375	0.1089899			15	
Bis(2-chloroethoxy)methane	0.4174802	6.928462	8.19875	7.587112E-02			15	
Bis(2-chloroethoxy)methane	0.4174802	6.928462	8.19875	7.587112E-02			15	
2,4-Dichlorophenol	0.2878	7.884411	8.3595	0.1195574			CCC (30)	
2,4-Dichlorophenol	0.2878	7.884411	8.3595	0.1195574			CCC (30)	

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1307010	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration Date:	07/03/13 12:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Chloroaniline	0.4452145	8.591744	8.62025	0.1157074			15	
4-Chloroaniline	0.4452145	8.591744	8.62025	0.1157074			15	
Hexachlorobutadiene	0.1398096	4.207395	8.725125	4.993806E-02			CCC (30)	
Hexachlorobutadiene	0.1398096	4.207395	8.725125	4.993806E-02			CCC (30)	
Caprolactam	8.620948E-02	12.36763	9.0278	0.183428			15	
Caprolactam	8.620948E-02	12.36763	9.0278	0.183428			15	
4-Chloro-3-methylphenol	0.3271708	10.48157	9.198375	0.1016226			CCC (30)	
4-Chloro-3-methylphenol	0.3271708	10.48157	9.198375	0.1016226			CCC (30)	
Hexachlorocyclopentadiene	0.1842226	13.76169	9.64525	3.642891E-02			SPCC (0.05)	
Hexachlorocyclopentadiene	0.1842226	13.76169	9.64525	3.642891E-02			SPCC (0.05)	
1,2,4,5-Tetrachlorobenzene	0.6744	7.215947	9.655125	3.479168E-02			15	
1,2,4,5-Tetrachlorobenzene	0.6744	7.215947	9.655125	3.479168E-02			15	
2,4,6-Trichlorophenol	0.3904941	9.798791	9.7795	7.114989E-02			CCC (30)	
2,4,6-Trichlorophenol	0.3904941	9.798791	9.7795	7.114989E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4235612	9.40359	9.825875	7.302879E-02			15	
2,4,5-Trichlorophenol	0.4235612	9.40359	9.825875	7.302879E-02			15	
1,1'-Biphenyl	1.590092	5.649702	10.0152	4.155484E-02			15	
1,1'-Biphenyl	1.590092	5.649702	10.0152	4.155484E-02			15	
2-Chloronaphthalene	1.221657	6.846238	10.05512	3.464963E-02			15	
2-Chloronaphthalene	1.221657	6.846238	10.05512	3.464963E-02			15	
2-Nitroaniline	0.4055269	11.38527	10.16088	0.073002			15	
2-Nitroaniline	0.4055269	11.38527	10.16088	0.073002			15	
Dimethylphthalate	1.391808	7.72967	10.37288	9.271417E-02			15	
Dimethylphthalate	1.391808	7.72967	10.37288	9.271417E-02			15	
2,6-Dinitrotoluene	0.308243	8.238222	10.45425	0.095335			15	
2,6-Dinitrotoluene	0.308243	8.238222	10.45425	0.095335			15	
3-Nitroaniline	0.300334	11.85483	10.677	8.532355E-02			15	
3-Nitroaniline	0.300334	11.85483	10.677	8.532355E-02			15	
2,4-Dinitrophenol	0.1845803	28.75759	10.80162	9.013543E-02		0.9989258	SPCC (0.05)	
2,4-Dinitrophenol	0.1845803	28.75759	10.80162	9.013543E-02		0.9989258	SPCC (0.05)	
4-Nitrophenol	0.1954987	10.89281	10.85537	0.1441043			SPCC (0.05)	
4-Nitrophenol	0.1954987	10.89281	10.85537	0.1441043			SPCC (0.05)	

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration: 1307010
Instrument: OSVGCMS1
Matrix: Water
Calibration Date: 07/03/13 12:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dibenzofuran	1.674154	7.031715	11.01625	3.977324E-02			15	
Dibenzofuran	1.674154	7.031715	11.01625	3.977324E-02			15	
2,4-Dinitrotoluene	0.40723	11.38582	10.9685	9.639107E-02			15	
2,4-Dinitrotoluene	0.40723	11.38582	10.9685	9.639107E-02			15	
2,3,4,6-Tetrachlorophenol	0.3306237	11.73333	11.16075	5.663337E-02			15	
2,3,4,6-Tetrachlorophenol	0.3306237	11.73333	11.16075	5.663337E-02			15	
Diethylphthalate	1.378758	6.828642	11.254	5.883535E-02			15	
Diethylphthalate	1.378758	6.828642	11.254	5.883535E-02			15	
4-Chlorophenyl-phenylether	0.6822569	7.57384	11.42425	0.0352382			15	
4-Chlorophenyl-phenylether	0.6822569	7.57384	11.42425	0.0352382			15	
4-Nitroaniline	0.3012284	10.66422	11.453	0.1474236			15	
4-Nitroaniline	0.3012284	10.66422	11.453	0.1474236			15	
2-Methyl-4,6-dinitrophenol	0.2339568	11.51169	11.493	0.112476			15	
2-Methyl-4,6-dinitrophenol	0.2339568	11.51169	11.493	0.112476			15	
N-nitrosodiphenylamine/Diphenylamine	1.129533	10.5281	11.57362	9.479007E-02			15	
N-nitrosodiphenylamine/Diphenylamine	1.129533	10.5281	11.57362	9.479007E-02			15	
4-Bromophenyl-phenylether	0.2542678	10.18895	12.04475	5.494575E-02			15	
4-Bromophenyl-phenylether	0.2542678	10.18895	12.04475	5.494575E-02			15	
Hexachlorobenzene	0.2483079	10.44661	12.15975	0.0524496			15	
Hexachlorobenzene	0.2483079	10.44661	12.15975	0.0524496			15	
Atrazine	0.3411038	7.33578	12.2126	0.0548235			15	
Atrazine	0.3411038	7.33578	12.2126	0.0548235			15	
Pentachlorophenol	0.143981	15.31179	12.39325	4.779189E-02			CCC (30)	
Pentachlorophenol	0.143981	15.31179	12.39325	4.779189E-02			CCC (30)	
Carbazole	0.9408388	9.37289	12.91587	6.735267E-02			15	
Carbazole	0.9408388	9.37289	12.91587	6.735267E-02			15	
Di-n-butylphthalate	1.268123	10.32644	13.29963	4.080197E-02			15	
Di-n-butylphthalate	1.268123	10.32644	13.29963	4.080197E-02			15	
Butylbenzylphthalate	0.3508956	12.73617	15.24675	3.305207E-02			15	
Butylbenzylphthalate	0.3508956	12.73617	15.24675	3.305207E-02			15	
3,3'-Dichlorobenzidine	0.3554215	11.41341	16.1565	5.093621E-02			15	
3,3'-Dichlorobenzidine	0.3554215	11.41341	16.1565	5.093621E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1307010	Instrument:	OSVGCMS1
Matrix:	Soil	Calibration Date:	07/03/13 12:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Bis(2-ethylhexyl)phthalate	0.7653807	17.74146	16.16338	2.570422E-02			15	*
Bis(2-ethylhexyl)phthalate	0.7653807	17.74146	16.16338	2.570422E-02			15	*
Di-n-octylphthalate	1.174516	15.73562	17.48343	4.244705E-02			CCC (30)	
Di-n-octylphthalate	1.174516	15.73562	17.48343	4.244705E-02			CCC (30)	
2-Fluorophenol	1.576805	4.634459	5.39075	0.169625			15	
2-Fluorophenol	1.576805	4.634459	5.39075	0.169625			15	
Phenol-d5	1.940605	6.581255	6.48475	0.1726537			15	
Phenol-d5	1.940605	6.581255	6.48475	0.1726537			15	
Nitrobenzene-d5	0.4680378	6.911044	7.64725	0.129871			15	
Nitrobenzene-d5	0.4680378	6.911044	7.64725	0.129871			15	
2-Fluorobiphenyl	1.492702	7.084043	9.884	6.538354E-02			15	
2-Fluorobiphenyl	1.492702	7.084043	9.884	6.538354E-02			15	
2,4,6-Tribromophenol	0.1714938	12.13104	11.7515	5.830843E-02			15	
2,4,6-Tribromophenol	0.1714938	12.13104	11.7515	5.830843E-02			15	
Terphenyl-d14	0.6136777	10.35183	14.6125	3.075246E-02			15	
Terphenyl-d14	0.6136777	10.35183	14.6125	3.075246E-02			15	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Laboratory ID: AA24782-SCV1

Sequence: AA24782

Standard ID: A3G0019

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Caprolactam	50.0	55	10.7	25.00
Atrazine	50.0	54	8.0	25.00
1,1'-Biphenyl	50.0	47	-5.3	25.00
Benzaldehyde	50.0	49	-1.8	25.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Laboratory ID: AA24784-SCV1

Sequence: AA24784

Standard ID: A3G0059

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Bis(2-chloroethyl)ether	50.0	49	-1.9	20.00
Phenol-d5	50.0	50	0.2	20.00
Nitrobenzene-d5	50.0	49	-2.1	20.00
2-Fluorophenol	50.0	48	-3.3	20.00
2-Fluorobiphenyl	50.0	50	-0.2	20.00
Dibenzofuran	50.0	49	-2.9	20.00
2,4-Dinitrotoluene	50.0	49	-1.3	20.00
2,4-Dichlorophenol	50.0	50	-0.7	20.00
2,4,6-Tribromophenol	50.0	49	-1.6	20.00
Hexachlorobenzene	50.0	50	-0.4	20.00
Di-n-octylphthalate	50.0	52	4.9	20.00
2-Methyl-4,6-dinitrophenol	50.0	48	-4.5	20.00
Bis(2-chloroethoxy)methane	50.0	49	-2.8	20.00
2,3,4,6-Tetrachlorophenol	50.0	48	-3.2	20.00
Phenol	50.0	50	-0.3	20.00
Bis(2-chloroisopropyl)ether	50.0	49	-2.1	20.00
3 & 4-Methylphenol	100	110	5.9	20.00
4-Chloroaniline	50.0	50	-0.4	20.00
2,4-Dimethylphenol	50.0	50	0.9	20.00
4-Bromophenyl-phenylether	50.0	50	-0.4	20.00
4-Nitrophenol	50.0	48	-4.8	20.00
4-Nitroaniline	50.0	49	-2.5	20.00
Bis(2-ethylhexyl)phthalate	50.0	51	2.5	20.00
Hexachlorobutadiene	50.0	47	-5.7	20.00
3-Nitroaniline	50.0	48	-3.6	20.00
Nitrobenzene	50.0	48	-4.4	20.00
Acetophenone	50.0	50	-0.2	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1307010

Laboratory ID: AA24784-SCV1

Sequence: AA24784

Standard ID: A3G0059

2,4,5-Trichlorophenol	50.0	49	-1.5	20.00
1,2,4,5-Tetrachlorobenzene	50.0	49	-2.3	20.00
2-Chlorophenol	50.0	50	-0.07	20.00
2-Methylphenol	50.0	50	-0.6	20.00
3,3'-Dichlorobenzidine	50.0	51	2.6	20.00
2-Chloronaphthalene	50.0	49	-1.5	20.00
2-Nitrophenol	50.0	50	0.6	20.00
2-Nitroaniline	50.0	51	1.2	20.00
2,4-Dinitrophenol	50.0	50	-0.7	20.00
Pentachlorophenol	50.0	48	-3.4	20.00
Terphenyl-d14	50.0	46	-7.7	20.00
Carbazole	50.0	47	-5.5	20.00
N-nitrosodiphenylamine/Diphenylamine	100	94	-5.8	20.00
Butylbenzylphthalate	50.0	50	-0.4	20.00
Diethylphthalate	50.0	47	-6.9	20.00
Isophorone	50.0	48	-3.2	20.00
Hexachlorocyclopentadiene	50.0	51	1.3	20.00
4-Chlorophenyl-phenylether	50.0	48	-4.4	20.00
Hexachloroethane	50.0	48	-3.1	20.00
N-Nitroso-di-n-propylamine	50.0	51	2.1	20.00
2,6-Dinitrotoluene	50.0	48	-4.2	20.00
4-Chloro-3-methylphenol	50.0	49	-1.1	20.00
2,4,6-Trichlorophenol	50.0	51	1.2	20.00

* Values outside of QC limits

ANALYSIS SEQUENCE

AA24827

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/6/2013 10:46:04PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24827-TUN1	QC		1		A3C0367			
AA24827-CCV1	QC		2		A3G0032	A3B0304		
AA24827-CCV2	QC		3		A3G0016	A3B0304		
AA24827-CRL1	QC		4		A3G0061	A3B0304		
3F21017-BLK1	QC		5			A3B0304		
3F21017-BS1	QC		6			A3B0304		
3F21017-MS1	QC		7			A3B0304		
3F21017-MSD1	QC		8			A3B0304		
A303479-03	8270D TCL SOM01.2 DOD	A	9			A3B0304	CH2M Hill, Inc. (CH025)	
A303479-03	8270D TICs	A	10			A3B0304	CH2M Hill, Inc. (CH025)	
A303380-10	8270D TCL SOM01.2 DOD	H	11			A3B0304	CH2M Hill, Inc. (CH025)	
A303380-10	8270D TICs	H	12			A3B0304	CH2M Hill, Inc. (CH025)	
A303380-11	8270D TCL SOM01.2 DOD	H	13			A3B0304	CH2M Hill, Inc. (CH025)	
A303380-11	8270D TICs	H	14			A3B0304	CH2M Hill, Inc. (CH025)	
A303412-04	8270D TCL SOM01.2 DOD	F	15			A3B0304	CH2M Hill, Inc. (CH025)	
A303412-04	8270D TICs	F	16			A3B0304	CH2M Hill, Inc. (CH025)	
A303412-05	8270D TICs	F	17			A3B0304	CH2M Hill, Inc. (CH025)	
A303412-05	8270D TCL SOM01.2 DOD	F	18			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-02	8270D TCL SOM01.2 DOD	A	19			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-02	8270D TICs	A	20			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-03	8270D TICs	A	21			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-03	8270D TCL SOM01.2 DOD	A	22			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-04	8270D TICs	A	23			A3B0304	CH2M Hill, Inc. (CH025)	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

AA24827

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/6/2013 10:46:04PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
A303448-04	8270D TCL SOM01.2 DOD	A	24			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-06	8270D TCL SOM01.2 DOD	A	25			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-06	8270D TICs	A	26			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-07	8270D TCL SOM01.2 DOD	A	27			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-07	8270D TICs	A	28			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-09	8270D TCL SOM01.2 DOD	A	29			A3B0304	CH2M Hill, Inc. (CH025)	
A303448-09	8270D TICs	A	30			A3B0304	CH2M Hill, Inc. (CH025)	
A303479-06	8270D TCL SOM01.2 DOD	A	31			A3B0304	CH2M Hill, Inc. (CH025)	
A303479-06	8270D TICs	A	32			A3B0304	CH2M Hill, Inc. (CH025)	
A303479-07	8270D TCL SOM01.2 DOD	A	33			A3B0304	CH2M Hill, Inc. (CH025)	
A303479-07	8270D TICs	A	34			A3B0304	CH2M Hill, Inc. (CH025)	
A303479-08	8270D TCL SOM01.2 DOD	A	35			A3B0304	CH2M Hill, Inc. (CH025)	
A303479-08	8270D TICs	A	36			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-06	8270D TCL SOM01.2 DOD	D	37			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-06	8270D TICs	D	38			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-07	8270D TCL SOM01.2 DOD	D	39			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-07	8270D TICs	D	40			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-09	8270D TCL SOM01.2 DOD	D	41			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-09	8270D TICs	D	42			A3B0304	CH2M Hill, Inc. (CH025)	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

PREPARATION BENCH SHEET

Printed: 6/21/2013 11:06:12AM

Analysis
8270D TCL SOM01.2 DOD [EPA 8270D]
8270D TICs [EPA 8270D]

3F21017

ENCO Orlando

Prepared using: EPA 3550C_MS

D

Surrogate Solution
___ A3E0420 BNA Surrogate Working

Spiking Solution
A3E0430 BNA Spike Mix Working
A3F0184 BNA DOD additional SPIKE MIX

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F21017-BLK1		Blank		QC	—	—	30.0	1			1000		
3F21017-BS1		LCS		QC	—	—	30.0	1	A3E0430 A3F0184	1000 1000	1000		
3F21017-MS1		Matrix Spike [A303479-03]		QC	—	—	30.0	1	A3E0430 A3F0184	1000 1000	1000		
3F21017-MSD1		Matrix Spike Dup [A303479-03]		QC	—	—	30.0	1	A3E0430 A3F0184	1000 1000	1000		
A303479-03 1	D	TR-5TH-SB05-0.5-01-0613 A[C11]	10-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303479-03 1	D	TR-5TH-SB05-0.5-01-0613 A[C11]	10-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303479-06 2	D	TR-5TH-SB05-02-04-0613 A[C11]	10-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303479-06 2	D	TR-5TH-SB05-02-04-0613 A[C11]	10-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303479-07 3	D	TR-5TH-SB06-0.5-01-0613 A[C11]	10-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303479-07 3	D	TR-5TH-SB06-0.5-01-0613 A[C11]	10-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303479-08 4	D	TR-5TH-SB06-04-06-0613 A[C11]	10-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303479-08 4	D	TR-5TH-SB06-04-06-0613 A[C11]	10-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303479-10 5	D	HPDTA-BG-SB05-0.5-01-0613A[C11]	10-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303479-10 5	D	HPDTA-BG-SB05-0.5-01-0613A[C11]	10-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303479-11 6	D	HPDTA-BG-SB05-06-08-0613 A[C11]	10-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303479-11 6	D	HPDTA-BG-SB05-06-08-0613 A[C11]	10-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-06 7	D	TR-2ND-SB07-0.5-01-0613 D[ENC	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-06 7	D	TR-2ND-SB07-0.5-01-0613 D[ENC	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-07 8	D	TR-2ND-SB07-04-06-0613 D[ENC	11-Jul-13	8270D TICs	—	—	30.0	1			1000		

PREPARATION BENCH SHEET

Printed: 6/21/2013 11:06:12AM

3F21017

ENCO Orlando

Prepared using: EPA 3550C_MS

Surrogate Solution

___ A3E0420 BNA Surrogate Working

Spiking Solution

A3E0430 BNA Spike Mix Working

A3F0184 BNA DOD additional SPIKE MIX

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303499-07 8	D	TR-2ND-SB07-04-06-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-09 9	D	TR-2ND-SB06-0.5-01-0613 D[ALS E	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-09 9	D	TR-2ND-SB06-0.5-01-0613 D[ALS E	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-10 10	D	TR-2ND-SB06-05-07-0613 D[ALS E	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-10 10	D	TR-2ND-SB06-05-07-0613 D[ALS E	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-11 11	D	TR-2ND-SB06D-0.5-01-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-11 11	D	TR-2ND-SB06D-0.5-01-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-12 12	D	TR-2ND-SB06D-05-07-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-12 12	D	TR-2ND-SB06D-05-07-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-14 13	D	TR-2ND-SB04-0.5-01-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-14 13	D	TR-2ND-SB04-0.5-01-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-15 14	D	TR-2ND-SB04-04-06-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-15 14	D	TR-2ND-SB04-04-06-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-17 15	D	TR-2ND-SB05-0.5-01-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-17 15	D	TR-2ND-SB05-0.5-01-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-18 16	D	TR-2ND-SB05-03-05-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-18 16	D	TR-2ND-SB05-03-05-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-19 17	D	TR-2ND-SB03-0.5-01-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		

PREPARATION BENCH SHEET

Printed: 6/21/2013 11:06:12AM

3F21017

ENCO Orlando

Prepared using: EPA 3550C_MS

Surrogate Solution

___ A3E0420 BNA Surrogate Working

Spiking Solution

A3E0430 BNA Spike Mix Working

A3F0184 BNA DOD additional SPIKE MIX

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303499-19	17 D	TR-2ND-SB03-0.5-01-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-20	18 D	TR-2ND-SB03-04-06-0613 D[ENCO	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-20	18 D	TR-2ND-SB03-04-06-0613 D[ENCO	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-21	19 D	TR-2ND-SB02-0.5-1-0613 D[ALS E	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-21	19 D	TR-2ND-SB02-0.5-1-0613 D[ALS E	11-Jul-13	8270D TICs	—	—	30.0	1			1000		
A303499-22	20 D	TR-2ND-SB02-06-08-0613 D[ALS E	11-Jul-13	8270D TCL SOM01.2 DOD	—	—	30.0	1			1000		
A303499-22	20 D	TR-2ND-SB02-06-08-0613 D[ALS E	11-Jul-13	8270D TICs	—	—	30.0	1			1000		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

8270 Soil

Start Date/Time 06-21-13 11:30

StopDate/Time 06-21-13 15:30

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3F0037	Solvent Dichloromethane	Solvent Lot # DI492

PREPARATION BENCH SHEET

Printed: 6/21/2013 11:06:12AM

3F21017

ENCO Orlando

Prepared using: EPA 3550C_MS

Surrogate Solution

__ A3E0420 BNA Surrogate Working

Spiking Solution

A3E0430 BNA Spike Mix Working

A3F0184 BNA DOD additional SPIKE MIX

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

Equipment Used

Sonicator USON 23 — Tuned per manufacturer instructions? [X] Yes [ ] No [ ] NA

Turbovap 10TVAP1 — Temperature: 40 C — N2 pressure (initial): 3 psi (final): 12 psi

Turbovap 10TVAP2 — Temperature: 40 C — N2 pressure (initial): 3 psi (final): 12 psi

Turbovap 10TVAP3 — Temperature: 40 C — N2 pressure (initial): 3 psi (final): 12 psi

Balance DGXTBAL 7 — Daily calibration complete? [X] Yes [ ] No [ ] NA

Other

CKP 06-21-13

Samples Prepared By — Date

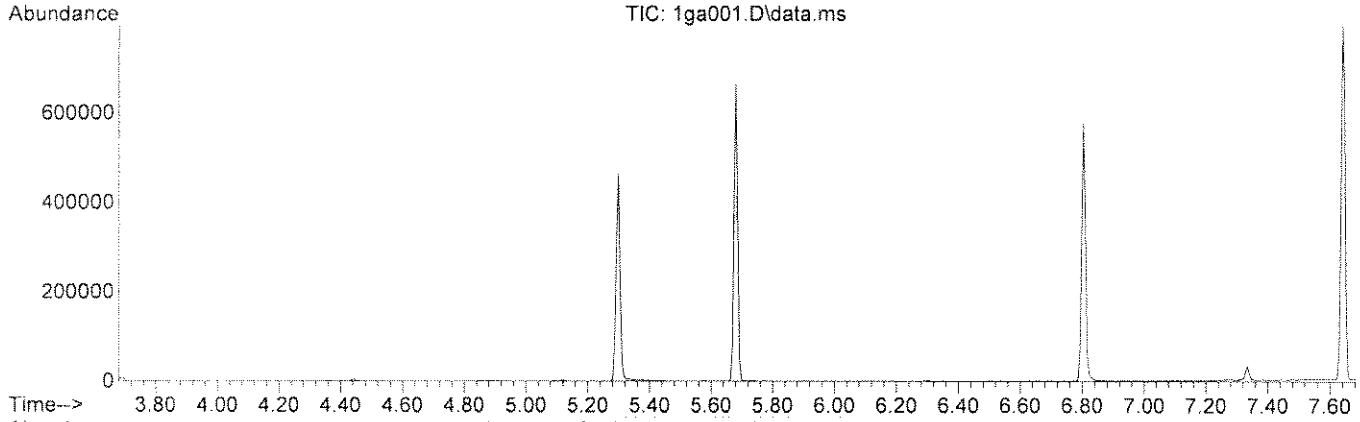
Samples Prepared By — Date

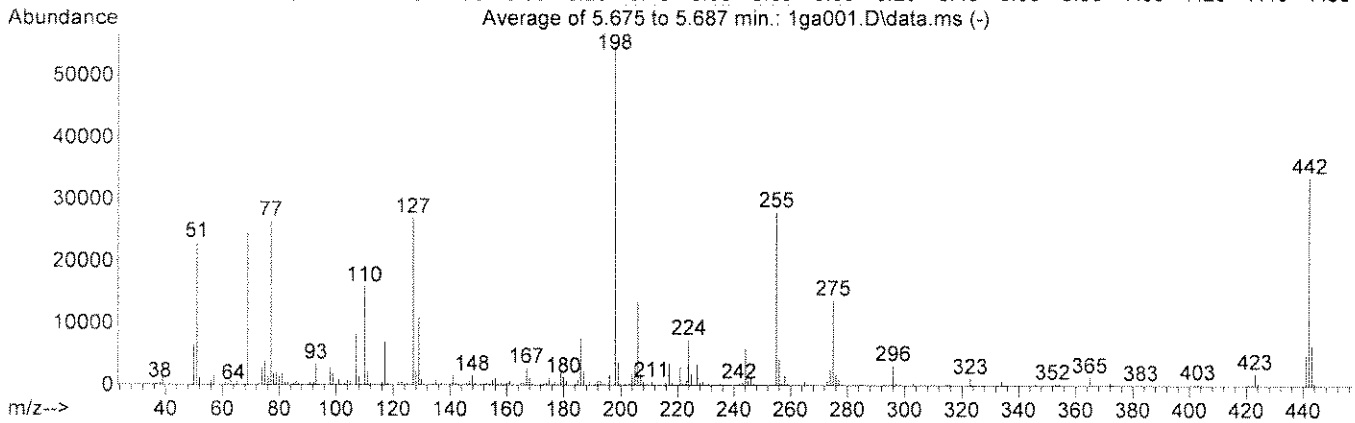
Samples Prepared By — Date

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga001.D
Acq On : 6 Jul 2013 10:19
Operator : jfi
Sample : aa24827-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Sat Jul 06 10:29:36 2013





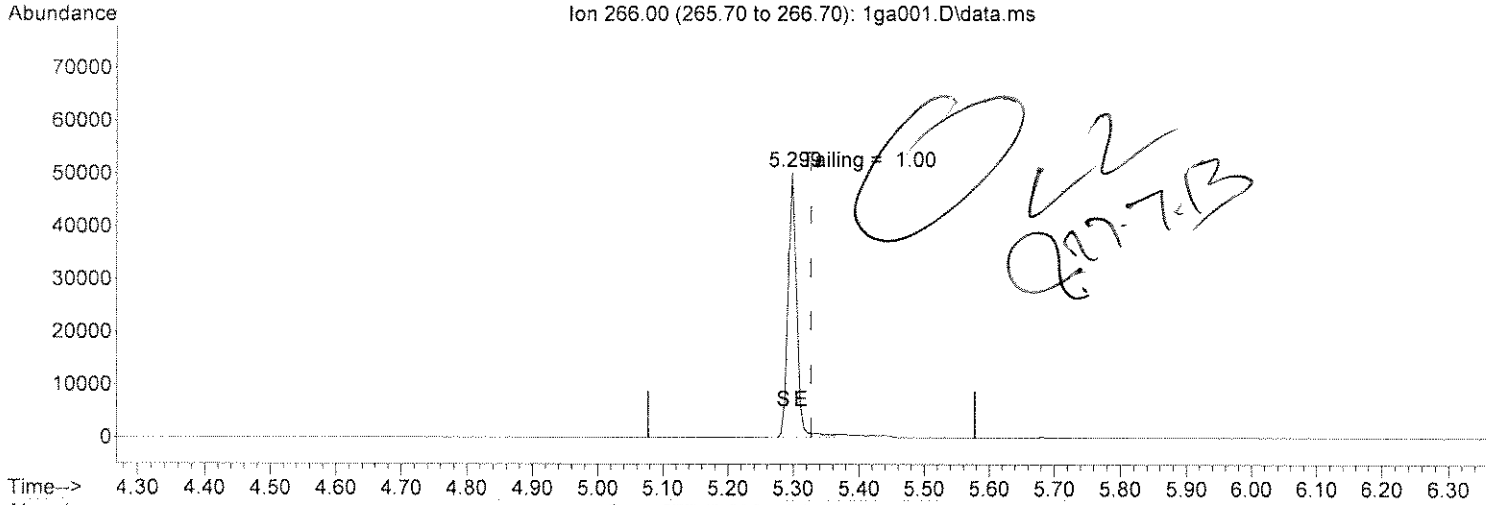
AutoFind: Scans 441, 442, 443; Background Corrected with Scan 436

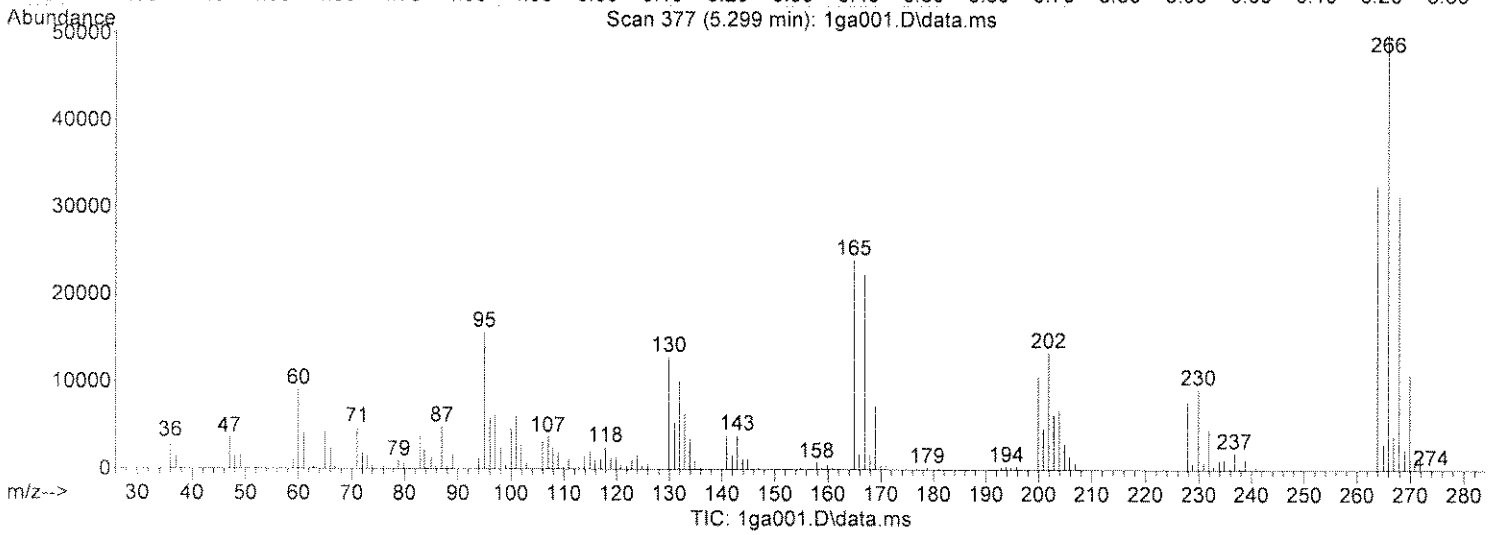
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.0	22937	PASS
68	69	0.00	2	0.5	122	PASS
69	198	0.00	100	44.8	24458	PASS
70	69	0.00	2	0.5	120	PASS
127	198	10	80	49.3	26912	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	54568	PASS
199	198	5	9	6.7	3654	PASS
275	198	10	60	25.2	13726	PASS
365	198	1	100	2.5	1352	PASS
441	442	0.01	24	15.2	5113	PASS
442	198	50	100	61.5	33536	PASS
443	442	15	24	19.3	6463	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga001.D
Acq On : 6 Jul 2013 10:19
Operator : jfi
Sample : aa24827-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 10:29:14 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPPD FOR 625/8270/8270PAH/SIM
QLast Update : Fri Jul 05 09:20:22 2013
Response via : Initial Calibration





(1) Pentachlorophenol

5.299min (-0.029) 64.14 ug/ml

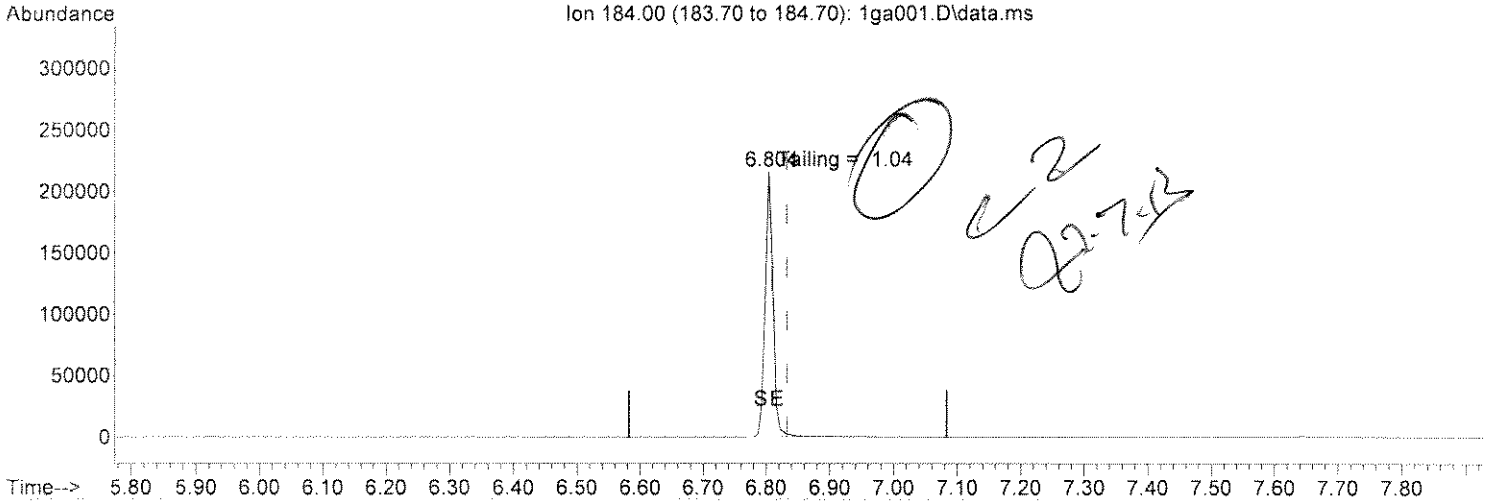
response 45536

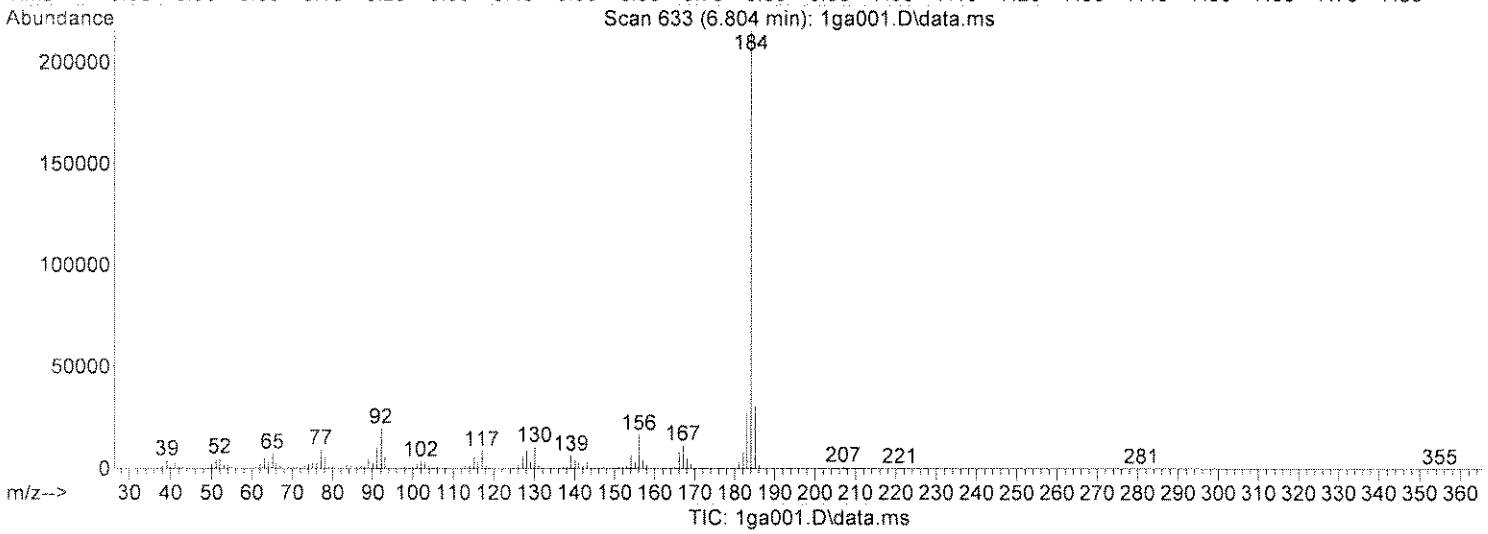
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga001.D
Acq On : 6 Jul 2013 10:19
Operator : jfi
Sample : aa24827-tunl
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 10:29:14 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Fri Jul 05 09:20:22 2013
Response via : Initial Calibration





(3) Benzidine

6.804min (-0.029) 73.49 ug/ml

response 189732

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga001.D
Acq On : 6 Jul 2013 10:19
Operator : jfi
Sample : aa24827-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 10:29:14 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Fri Jul 05 09:20:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Pentachlorophenol	5.299	266	45536	64.139 ug/ml	100
2) DFTPP	5.681	198	63869	65.601 ug/ml	100
3) Benzidine	6.804	184	189732	73.488 ug/ml	100
4) DDE	0.000		0	N.D.	
5) DDD	7.334	TIC	30281	14.459 #	82
6) DDT	7.640	TIC	703739	1359.882 ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

30281 / 30281 + 703739 x100 = 4.1%

~~(764301)~~ 7.7.13

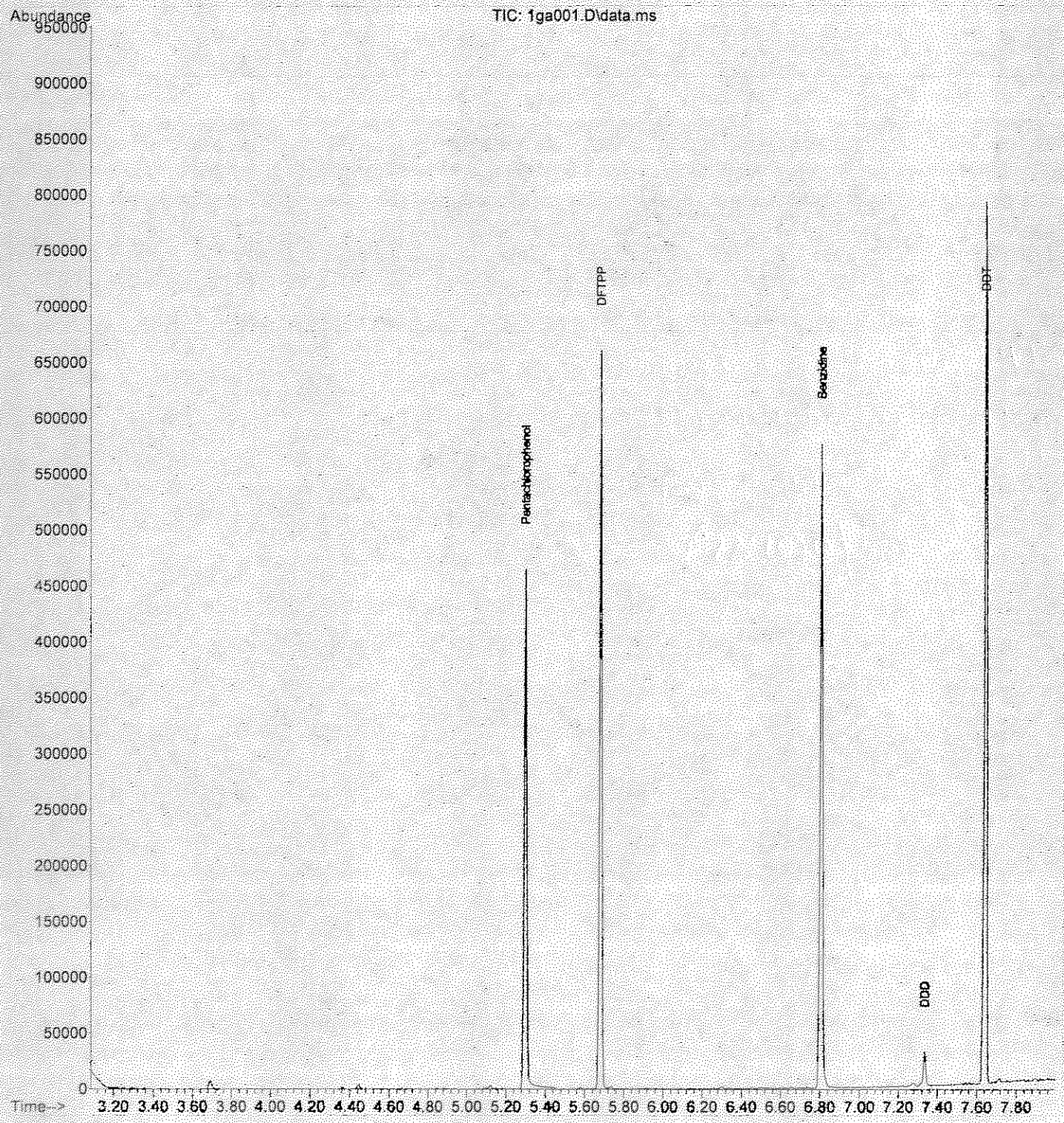
(734020)

~~220/DDT~~ DDE 7.7.13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga001.D
Acq On : 6 Jul 2013 10:19
Operator : jfi
Sample : aa24827-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 10:29:14 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Fri Jul 05 09:20:22 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga002.D
Acq On : 6 Jul 2013 11:01
Operator : jfi
Sample : aa24827-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 11:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	492445	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	2145065	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.669	164	1225054	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.552	188	2030583	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.140	240	1359687	40.00	ug/mL	0.00
137) PERYLENE-d12	19.082	264	999423	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.317	112	985374	50.76	ug/mL	0.00
Spiked Amount 100.000			Recovery = 50.76%			
11) Phenol -D5 (acid surr)	6.416	99	1268215	53.08	ug/mL	0.00
Spiked Amount 100.000			Recovery = 53.08%			
33) Nitrobenzene -D5 (b/n ...	7.566	82	1250092	49.81	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.81%			
61) 2-Fluorobiphenyl (b/n ...	9.803	172	2250567	49.23	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.23%			
91) 2,4,6-Tribromophenol (...	11.664	330	276520	52.65	ug/mL	0.00
Spiked Amount 100.000			Recovery = 52.65%			
120) Terphenyl -D14 (b/n surr)	14.520	244	1619679	51.99	ug/mL	0.00
Spiked Amount 100.000			Recovery = 51.99%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.657	74	660426	50.661	ug/mL#	72
3) Pyridine	3.697	79	1035635	49.033	ug/mL	96
4) 2-Picoline	4.627	93	1029152	49.864	ug/mL	94
5) N-Nitrosomethylethylamine	4.747	88	476501	51.460	ug/mL#	58
6) Methyl methanesulfonate	5.107	80	636545	51.132	ug/mL	93
8) 2-Fluorophenol	5.317	112	985374	50.760	ug/mL	93
9) N-Nitrosodiethylamine	5.597	102	506949	54.426	ug/mL#	71
10) Ethyl methanesulfonate	5.937	79	767321	52.800	ug/mL	96
12) Phenol -D5	6.416	99	1268215	53.083	ug/mL	86
13) Pentachloroethane	6.556	167	406134	51.919	ug/mL	98
14) aniline	6.486	93	1630461	51.849	ug/mL	90
15) Phenol	6.426	94	1189735	51.515	ug/mL	90
16) Bis(2-chloroethyl)ether	6.546	93	912820	50.874	ug/mL	93
17) 2-Chlorophenol	6.636	128	966327	51.788	ug/mL	97
18) 1,3-Dichlorobenzene	6.826	146	1112555	50.456	ug/mL	99
19) 1,4-Dichlorobenzene	6.906	146	1120509	50.063	ug/mL	99
20) Benzyl Alcohol	7.036	108	658919	54.128	ug/mL	90
21) 1,2-Dichlorobenzene	7.106	146	1057219	50.961	ug/mL	99
22) 2-Methylphenol	7.166	107	834834	53.054	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.196	45	1188226	53.066	ug/mL	95
24) Acetophenone	7.376	105	1497132	53.402	ug/mL	94
25) 3 & 4-Methylphenol	7.366	108	2240864	114.818	ug/mL	98
26) N-Nitrosodi-n-propylamine	7.386	70	812979	56.596	ug/mL	96
27) N-Nitrosopyrrolidine	7.356	100	561730	59.848	ug/mL	93
28) N-Nitrosomorpholine	7.396	56	719847	54.636	ug/mL	94
29) Hexachloroethane	7.526	117	452216	51.129	ug/mL	98
30) o-Toluidine	7.426	106	1659583	53.337	ug/mL	98
31) a,a-Dimethylphenethyla...	8.443	58	2142760	54.668	ug/mL	82
34) Nitrobenzene -D5	7.566	82	1250092	49.806	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga002.D
Acq On : 6 Jul 2013 11:01
Operator : jfi
Sample : aa24827-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 11:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Nitrobenzene	7.596	77	1109637	49.045	ug/mL	94
36)	N-Nitrosopiperidine	7.776	114	532454	53.710	ug/mL#	65
37)	Isophorone	7.876	82	2003276	54.000	ug/mL	100
38)	2-Nitrophenol	7.976	139	505187	49.388	ug/mL	92
39)	2,4-Dimethylphenol	8.006	122	953387	51.748	ug/mL	96
40)	Bis(2-chloroethoxy)met...	8.117	93	1082974	48.373	ug/mL	95
41)	o,o,o-Triethyl Phospho...	8.080	198	606808	51.452	ug/mL	93
42)	Benzoic Acid	8.164	105	918743	69.848	ug/mL#	68
43)	2,4-Dichlorophenol	8.276	162	783445	50.762	ug/mL	98
44)	1,2,4-Trichlorobenzene	8.387	180	941789	48.804	ug/mL	96
45)	Naphthalene	8.490	128	3067019	50.045	ug/mL	99
46)	4-Chloroaniline	8.536	127	1207253	50.565	ug/mL	99
47)	2,6-Dichlorophenol	8.555	162	809823	51.305	ug/mL	100
48)	Hexachloropropene	8.602	213	609781	45.765	ug/mL	99
49)	Hexachlorobutadiene	8.639	223	364070	48.559	ug/mL	98
50)	N-Nitrosodi-n-Butylamine	8.946	84	828364	55.397	ug/mL	90
51)	p-Phenylenediamine	8.983	108	451837	52.247	ug/mL	92
52)	4-Chloro-3-methylphenol	9.123	107	947515	54.005	ug/mL	91
53)	Safrole	9.225	162	737351	52.735	ug/mL	94
54)	2-Methylnaphthalene	9.356	142	2150064	52.773	ug/mL	97
55)	1-Methylnaphthalene	9.486	142	2454975	53.353	ug/mL	97
56)	Hexachlorocyclopentadiene	9.561	237	464755	47.044	ug/mL	98
58)	1,2,4,5-Tetrachloroben...	9.570	216	1021837	49.473	ug/mL	98
59)	2,4,6-Trichlorophenol	9.691	196	600387	50.202	ug/mL	99
60)	2,4,5-Trichlorophenol	9.747	196	636239	49.047	ug/mL	99
62)	2-Fluorobiphenyl	9.803	172	2250567	49.229	ug/mL	100
63)	Isosafrole	9.868	162	719753	48.629	ug/mL	97
64)	2-Chloronaphthalene	9.970	162	1807431	48.308	ug/mL	97
65)	2-Nitroaniline	10.082	65	630281	50.748	ug/mL	92
66)	1,4-Naphthoquinone	10.175	158	438414	45.613	ug/mL	95
67)	Dimethyl phthalate	10.296	163	2176046	51.050	ug/mL	100
68)	m-Dinitrobenzene	10.343	168	314082	49.521	ug/mL#	64
69)	2,6-Dinitrotoluene	10.371	165	458301	48.547	ug/mL	89
70)	Acenaphthylene	10.501	152	3167737	50.930	ug/mL	100
71)	3-Nitroaniline	10.594	138	447635	48.666	ug/mL	98
72)	Acenaphthene	10.715	154	2067038	50.743	ug/mL	99
73)	2,4-Dinitrophenol	10.725	184	299667	47.090	ug/mL#	72
74)	Pentachlorobenzene	10.883	250	818656	51.034	ug/mL	98
75)	4-Nitrophenol	10.781	109	308599	51.541	ug/mL	94
76)	Dibenzofuran	10.930	168	2533390	49.410	ug/mL	94
77)	2,4-Dinitrotoluene	10.883	165	643764	51.617	ug/mL	97
78)	2-Naphthylamine	11.023	143	1448312	48.894	ug/mL	98
79)	1-Naphthylamine	11.117	143	1661583	47.452	ug/mL	98
80)	2,3,4,6-Tetrachlorophenol	11.079	232	510912	50.456	ug/mL	98
81)	Diethyl phthalate	11.172	149	2058513	48.750	ug/mL	98
82)	4-Chlorophenyl phenyl ...	11.332	204	1010244	48.349	ug/mL	97
83)	Fluorene	11.363	166	2180122	49.668	ug/mL	99
84)	Thionazin	11.284	107	396011	51.321	ug/mL	96
85)	5-Nitro-o-toluidine	11.363	152	577100	50.452	ug/mL	95
86)	4-Nitroaniline	11.373	138	464188	50.316	ug/mL	91
87)	2-Methyl-4,6-dinitroph...	11.413	198	362365	50.573	ug/mL	99
88)	Diphenylamine/N-Nitros...	11.493	169	3512728	101.543	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga002.D
Acq On : 6 Jul 2013 11:01
Operator : jfi
Sample : aa24827-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 11:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.493	169	3512728	50.772 ug/mL	98
90)	DPH (as Azobenzene)	11.543	182	548805	49.128 ug/mL	91
92)	2,4,6-Tribromophenol	11.664	330	276520	52.648 ug/mL	97
94)	Sulfotepp	11.644	97	404065	48.200 ug/mL	91
95)	Diallate	11.835	86	744682	48.968 ug/mL#	80
96)	Phorate	11.845	75	1204249	49.084 ug/mL	98
97)	4-Bromophenylphenyl ether	11.955	248	587115	45.485 ug/mL	96
98)	Phenacetin	11.865	108	942292	50.875 ug/mL	99
99)	1,3,5-Trinitrobenzene	11.795	213	216043	53.728 ug/mL	96
100)	Hexachlorobenzene	12.067	284	590105	46.814 ug/mL	97
101)	Dimethoate	12.067	87	661244	47.941 ug/mL	92
102)	4-Aminobiphenyl	12.287	169	2061895	48.923 ug/mL	99
103)	Pentachlorophenol	12.310	266	378182	50.253 ug/mL	98
104)	Pronamide	12.333	173	578160	50.419 ug/mL	97
105)	Pentachloronitrobenzene	12.333	237	264697	50.183 ug/mL	94
106)	Phenanthrene	12.587	178	2845897	48.805 ug/mL	99
107)	Disulfoton	12.506	88	1150089	52.520 ug/mL	94
108)	Anthracene	12.644	178	2864270	48.079 ug/mL	98
109)	Dinoseb	12.517	211	595534	52.380 ug/mL	98
110)	Carbazole	12.829	167	2460566	51.518 ug/mL	98
111)	Methyl Parathion	12.979	109	706950	54.955 ug/mL	89
112)	Di-n-butyl phthalate	13.210	149	3266724	50.745 ug/mL	98
113)	Parathion	13.464	109	444867	56.518 ug/mL	96
114)	4-Nitroquinoline-1-oxide	13.533	190	236901	70.069 ug/mL	91
115)	Methapyrilene	13.603	97	541732	51.742 ug/mL	96
116)	Isodrin	13.897	193	258246	50.491 ug/mL	89
117)	Fluoranthene	14.078	202	2201609	52.185 ug/mL	95
118)	Benzidine	13.887	184	15979	46.112 ug/mL	90
119)	Pyrene	14.369	202	2300173	52.265 ug/mL	93
121)	Terphenyl -D14	14.520	244	1619679	51.991 ug/mL	99
122)	Aramite	14.460	185	43423	57.480 ug/mL	90
123)	Benzylbutyl phthalate	15.143	149	961698	53.988 ug/mL	97
125)	p-(dimethylamino)azobe...	14.701	225	450238	49.716 ug/mL#	100
126)	Chlorobenzilate	14.741	251	593907	48.147 ug/mL	94
127)	Famphur	15.810	218	52234	No Calib	
128)	3,3'-Dimethylbenzidine	15.153	212	752196	41.742 ug/mL	96
129)	Kepone	19.803	272	534	No Calib #	
130)	2-Acetylaminofluorene	15.545	181	761153	55.509 ug/mL	99
131)	3,3'-Dichlorobenzidine	16.030	252	623648	51.620 ug/mL	98
132)	Benzo(a)anthracene	16.118	228	1835000	47.646 ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	16.041	149	1289237	49.554 ug/mL	98
134)	Chrysene	16.184	228	1627280	46.706 ug/mL	97
135)	Di-n-octyl phthalate	17.331	149	2011125	50.373 ug/mL	99
136)	Hexachlorophene	19.082	196	1075	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.311	256	796673	47.802 ug/mL	97
139)	Benzo(b)fluoranthene	18.328	252	1690562	47.481 ug/mL	95
140)	Benzo(k)fluoranthene	18.387	252	1403849	47.021 ug/mL	96
141)	Benzo(a)pyrene	18.981	252	1409793	48.850 ug/mL	96
142)	3-Methylcholanthrene	19.591	268	753929	51.077 ug/mL	97
143)	Indeno(1,2,3-cd)pyrene	20.842	276	1371318	51.728 ug/mL	83
144)	Dibenzo(a,h)anthracene	20.861	278	1202559	52.522 ug/mL	86
145)	Benzo(g,h,i)perylene	21.299	276	972576	49.244 ug/mL	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga002.D
Acq On : 6 Jul 2013 11:01
Operator : jfi
Sample : aa24827-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 11:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

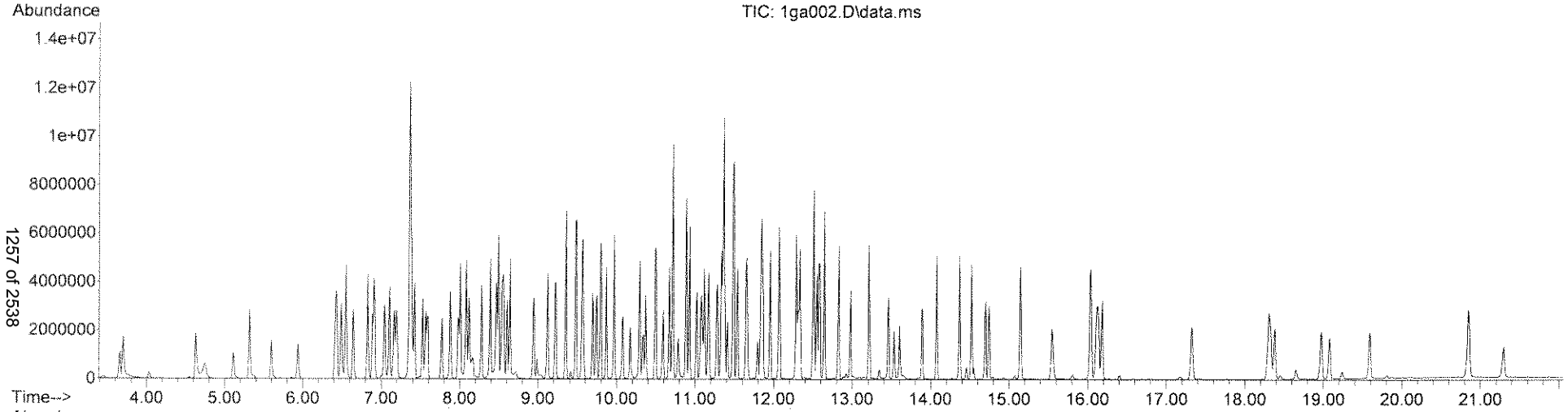
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

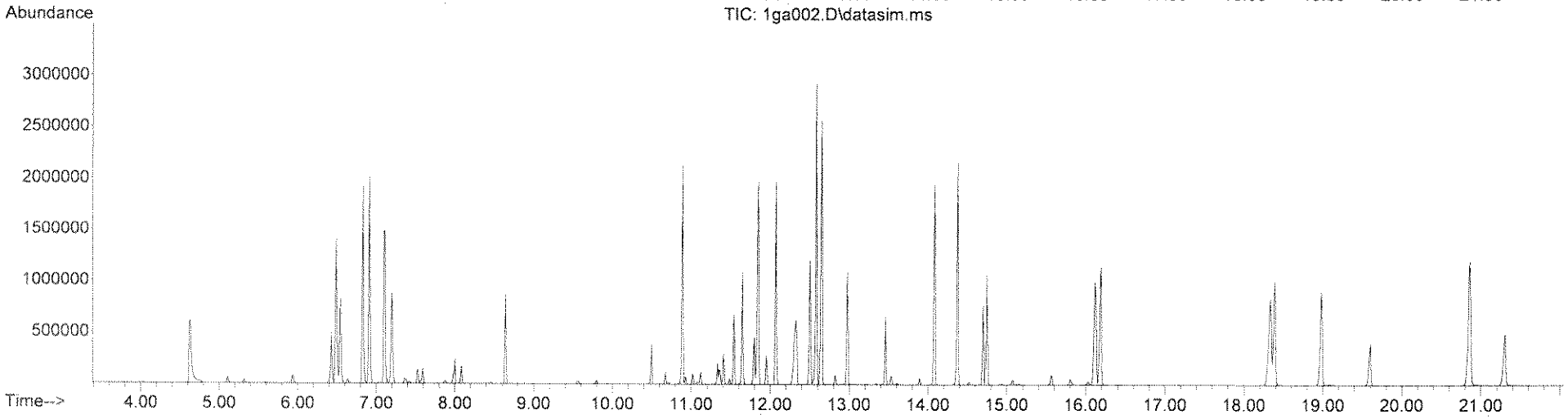
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga002.D
Acq On : 6 Jul 2013 11:01
Operator : jfi
Sample : aa24827-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 11:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga003.D
Acq On : 6 Jul 2013 11:30
Operator : jfi
Sample : aa24827-ccv2
Misc : a3g0006 tcl
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 11:54:24 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

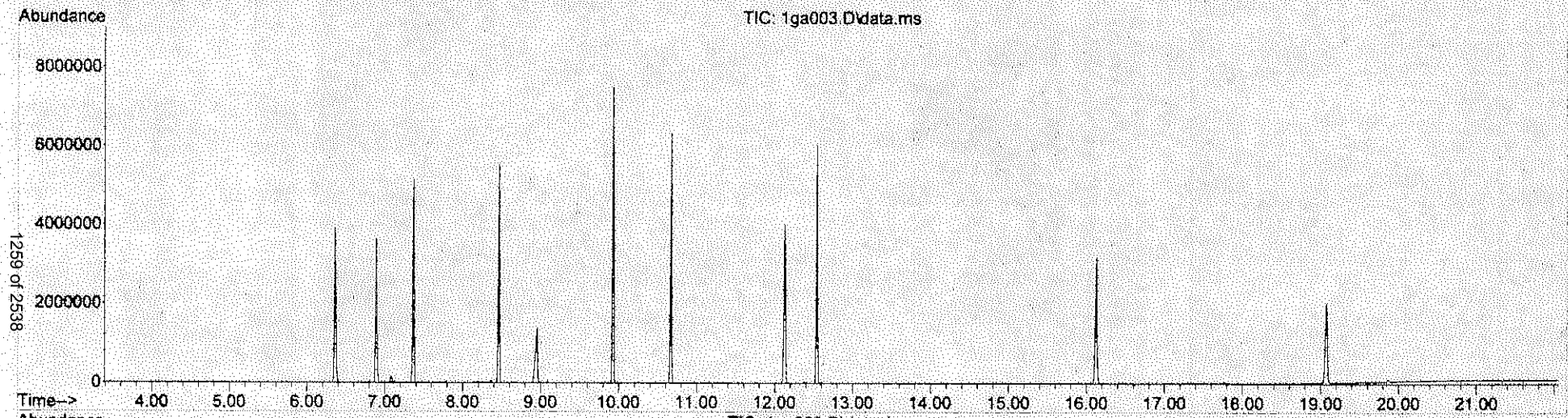
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	603539	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	2614048	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.669	164	1453039	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.541	188	2401616	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.129	240	1739377	40.00	ug/mL	0.00
10) PERYLENE-d12	19.074	264	1294647	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.356	106	863756	50.618	ug/mL	98
4) Caprolactam	8.955	113	328260	58.265	ug/mL	98
6) 1,1'-Biphenyl	9.924	154	2647922	45.842	ug/mL	97
7) Atrazine	12.125	200	708727	57.197	ug/mL	99

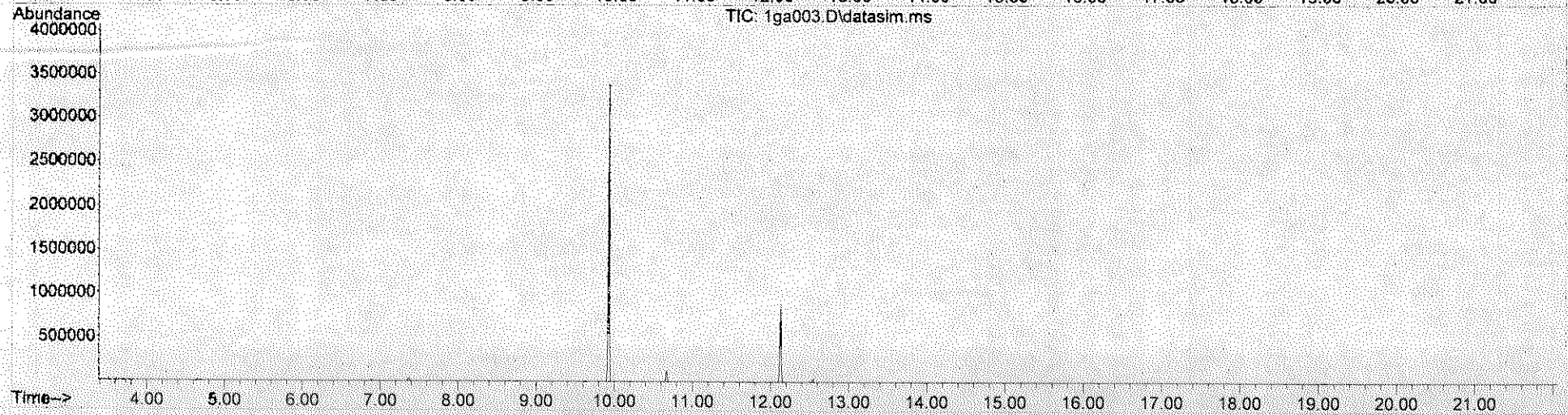
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga003.D
Acq On : 6 Jul 2013 11:30
Operator : jfi
Sample : aa24827-ccv2
Misc : a3g0006 tcl
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 11:54:24 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga004.D
Acq On : 6 Jul 2013 11:58
Operator : jfi
Sample : aa24827-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 12:23:04 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	519660	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	2050856	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.669	164	1133978	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.541	188	1772983	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.129	240	1196700	40.00	ug/mL	-0.01
137) PERYLENE-d12	19.074	264	930204	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.307	112	197440	9.64	ug/mL	0.00
Spiked Amount 100.000			Recovery	=	9.64%	
11) Phenol -D5 (acid surr)	6.396	99	234602	9.31	ug/mL	-0.02
Spiked Amount 100.000			Recovery	=	9.31%	
33) Nitrobenzene -D5 (b/n ...	7.556	82	228528	9.52	ug/mL	0.00
Spiked Amount 100.000			Recovery	=	9.52%	
61) 2-Fluorobiphenyl (b/n ...	9.793	172	373625	8.83	ug/mL	0.00
Spiked Amount 100.000			Recovery	=	8.83%	
91) 2,4,6-Tribromophenol (...	11.654	330	44291	9.11	ug/mL	0.00
Spiked Amount 100.000			Recovery	=	9.11%	
120) Terphenyl -D14 (b/n surr)	14.510	244	267326	9.83	ug/mL	0.00
Spiked Amount 100.000			Recovery	=	9.83%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.638	74	133998	9.741	ug/mL	80
3) Pyridine	3.688	79	218044	9.783	ug/mL	97
4) 2-Picoline	4.627	93	209349	9.612	ug/mL	92
5) N-Nitrosomethylethylamine	4.737	88	95653	9.789	ug/mL#	56
6) Methyl methanesulfonate	5.097	80	122305	9.310	ug/mL	92
8) 2-Fluorophenol	5.307	112	197440	9.638	ug/mL	93
9) N-Nitrosodiethylamine	5.587	102	94696	9.634	ug/mL#	70
10) Ethyl methanesulfonate	5.927	79	144977	9.453	ug/mL	95
12) Phenol -D5	6.396	99	234602	9.305	ug/mL	86
13) Pentachloroethane	6.546	167	80490	9.751	ug/mL	98
14) aniline	6.476	93	305941	9.220	ug/mL	91
15) Phenol	6.416	94	223251	9.160	ug/mL	91
16) Bis(2-chloroethyl)ether	6.536	93	176085	9.300	ug/mL	92
17) 2-Chlorophenol	6.636	128	189476	9.623	ug/mL	97
18) 1,3-Dichlorobenzene	6.826	146	217732	9.357	ug/mL	99
19) 1,4-Dichlorobenzene	6.906	146	216758	9.177	ug/mL	96
20) Benzyl Alcohol	7.026	108	117042	9.111	ug/mL	93
21) 1,2-Dichlorobenzene	7.096	146	207700	9.487	ug/mL	98
22) 2-Methylphenol	7.156	107	154003	9.274	ug/mL	88
23) Bis(2-chloroisopropyl)...	7.196	45	228515	9.671	ug/mL	95
24) Acetophenone	7.366	105	271015	9.161	ug/mL	92
25) 3 & 4-Methylphenol	7.336	108	353509	17.165	ug/mL	99
26) N-Nitrosodi-n-propylamine	7.356	70	146873	9.689	ug/mL	98
27) N-Nitrosopyrrolidine	7.326	100	92204	9.309	ug/mL	96
28) N-Nitrosomorpholine	7.366	56	130870	9.413	ug/mL	91
29) Hexachloroethane	7.516	117	86878	9.308	ug/mL	98
30) o-Toluidine	7.406	106	300566	9.154	ug/mL	100
31) a,a-Dimethylphenethyla...	8.360	58	324712	7.851	ug/mL	93
34) Nitrobenzene -D5	7.556	82	228528	9.523	ug/mL	95

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga004.D
Acq On : 6 Jul 2013 11:58
Operator : jfi
Sample : aa24827-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 12:23:04 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.576	77	202546	9.364	ug/mL	93
36) N-Nitrosopiperidine	7.756	114	93776	9.894	ug/mL#	64
37) Isophorone	7.866	82	358907	10.119	ug/mL	99
38) 2-Nitrophenol	7.976	139	86684	8.864	ug/mL	92
39) 2,4-Dimethylphenol	7.996	122	172048	9.767	ug/mL	92
40) Bis(2-chloroethoxy)met...	8.108	93	206371	9.641	ug/mL	98
41) o,o,o-Triethyl Phospho...	8.071	198	107069	9.496	ug/mL	94
42) Benzoic Acid	8.090	105	263483	20.952	ug/mL#	67
43) 2,4-Dichlorophenol	8.266	162	133655	9.058	ug/mL	96
44) 1,2,4-Trichlorobenzene	8.388	180	173545	9.406	ug/mL	96
45) Naphthalene	8.490	128	534827	9.128	ug/mL	100
46) 4-Chloroaniline	8.527	127	201086	8.809	ug/mL	100
47) 2,6-Dichlorophenol	8.546	162	136416	9.039	ug/mL	99
48) Hexachloropropene	8.602	213	98493	7.732	ug/mL	96
49) Hexachlorobutadiene	8.639	223	68380	9.539	ug/mL	96
50) N-Nitrosodi-n-Butylamine	8.928	84	141618	9.906	ug/mL	89
51) p-Phenylenediamine	8.965	108	72794	8.804	ug/mL	93
52) 4-Chloro-3-methylphenol	9.114	107	157288	9.377	ug/mL	91
53) Safrole	9.216	162	127485	9.536	ug/mL	95
54) 2-Methylnaphthalene	9.346	142	355589	9.129	ug/mL	97
55) 1-Methylnaphthalene	9.477	142	399087	9.072	ug/mL	96
56) Hexachlorocyclopentadiene	9.551	237	62136	6.578	ug/mL	98
58) 1,2,4,5-Tetrachloroben...	9.561	216	165301	8.646	ug/mL	98
59) 2,4,6-Trichlorophenol	9.691	196	95057	8.587	ug/mL	98
60) 2,4,5-Trichlorophenol	9.738	196	102319	8.521	ug/mL	100
62) 2-Fluorobiphenyl	9.793	172	373625	8.829	ug/mL	100
63) Isosafrole	9.868	162	119961	8.756	ug/mL	96
64) 2-Chloronaphthalene	9.961	162	297818	8.599	ug/mL	98
65) 2-Nitroaniline	10.063	65	97081	8.444	ug/mL	91
66) 1,4-Naphthoquinone	10.166	158	93099	10.464	ug/mL	96
67) Dimethyl phthalate	10.278	163	371796	9.423	ug/mL	100
68) m-Dinitrobenzene	10.324	168	49010	8.348	ug/mL#	81
69) 2,6-Dinitrotoluene	10.361	165	80825	9.249	ug/mL	89
70) Acenaphthylene	10.492	152	517801	8.994	ug/mL	99
71) 3-Nitroaniline	10.576	138	67689	7.950	ug/mL	99
72) Acenaphthene	10.706	154	332376	8.815	ug/mL	99
73) 2,4-Dinitrophenol	10.706	184	35426	9.773	ug/mL#	1
74) Pentachlorobenzene	10.874	250	127557	8.590	ug/mL	97
75) 4-Nitrophenol	10.762	109	46277	8.350	ug/mL	97
76) Dibenzofuran	10.921	168	408004	8.597	ug/mL	97
77) 2,4-Dinitrotoluene	10.874	165	101231	8.769	ug/mL	97
78) 2-Naphthylamine	11.005	143	219131	7.992	ug/mL	98
79) 1-Naphthylamine	11.107	143	217163	6.700	ug/mL	99
80) 2,3,4,6-Tetrachlorophenol	11.070	232	78797	8.407	ug/mL	99
81) Diethyl phthalate	11.154	149	381728	9.766	ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.333	204	164271	8.493	ug/mL	99
83) Fluorene	11.353	166	347318	8.548	ug/mL	99
84) Thionazin	11.266	107	71957	10.074	ug/mL	97
85) 5-Nitro-o-toluidine	11.343	152	86043	8.126	ug/mL	89
86) 4-Nitroaniline	11.343	138	68811	8.058	ug/mL	94
87) 2-Methyl-4,6-dinitroph...	11.383	198	53149	8.013	ug/mL	98
88) Diphenylamine/N-Nitros...	11.473	169	523780	16.357	ug/mL	98

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga004.D
Acq On : 6 Jul 2013 11:58
Operator : jfi
Sample : aa24827-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 12:23:04 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.473	169	523780	8.179	ug/mL	98
90)	DPH (as Azobenzene)	11.533	182	91176	8.817	ug/mL	91
92)	2,4,6-Tribromophenol	11.654	330	44291	9.110	ug/mL	97
94)	Sulfotepp	11.634	97	77399	10.574	ug/mL#	83
95)	Diallate	11.825	86	140162	10.556	ug/mL#	78
96)	Phorate	11.835	75	222243	10.375	ug/mL	99
97)	4-Bromophenylphenyl ether	11.945	248	97435	8.645	ug/mL	95
98)	Phenacetin	11.835	108	172042	10.638	ug/mL	99
99)	1,3,5-Trinitrobenzene	11.775	213	35776	10.190	ug/mL	90
100)	Hexachlorobenzene	12.056	284	100919	9.169	ug/mL	95
101)	Dimethoate	12.046	87	155793	12.936	ug/mL	89
102)	4-Aminobiphenyl	12.275	169	306009	8.316	ug/mL	100
103)	Pentachlorophenol	12.298	266	52072	7.925	ug/mL	95
104)	Pronamide	12.321	173	102360	10.223	ug/mL	96
105)	Pentachloronitrobenzene	12.321	237	47098	10.227	ug/mL	92
106)	Phenanthrene	12.575	178	466748	9.167	ug/mL	99
107)	Disulfoton	12.494	88	205291	10.737	ug/mL	94
108)	Anthracene	12.633	178	472693	9.087	ug/mL	99
109)	Dinoseb	12.494	211	80120	8.071	ug/mL	99
110)	Carbazole	12.818	167	382626	9.175	ug/mL	98
111)	Methyl Parathion	12.968	109	136952	12.193	ug/mL	89
112)	Di-n-butyl phthalate	13.210	149	593536	10.559	ug/mL	98
113)	Parathion	13.453	109	79271	11.534	ug/mL	93
114)	4-Nitroquinoline-1-oxide	13.522	190	33193	11.244	ug/mL	65
115)	Methapyrilene	13.591	97	154448	16.895	ug/mL	95
116)	Isodrin	13.887	193	48753	10.917	ug/mL	89
117)	Fluoranthene	14.068	202	367492	9.976	ug/mL	95
118)	Benzidine	13.887	184	3117	10.302	ug/mL#	85
119)	Pyrene	14.359	202	381203	9.920	ug/mL	96
121)	Terphenyl -D14	14.510	244	267326	9.828	ug/mL	100
122)	Aramite	14.450	185	8669	13.143	ug/mL	85
123)	Benzylbutyl phthalate	15.133	149	168662	10.844	ug/mL	100
125)	p-(dimethylamino)azobe...	14.691	225	77078	9.670	ug/mL#	100
126)	Chlorobenzilate	14.741	251	104113	9.590	ug/mL	89
127)	Famphur	15.799	218	6060	No Calib	#	
128)	3,3'-Dimethylbenzidine	15.143	212	171220	10.796	ug/mL	96
129)	Kepone	20.006	272	65	No Calib	#	
130)	2-Acetylaminofluorene	15.534	181	129752	10.751	ug/mL	95
131)	3,3'-Dichlorobenzidine	16.019	252	107668	10.126	ug/mL	98
132)	Benzo(a)anthracene	16.096	228	327555	9.663	ug/mL	99
133)	Bis(2-ethylhexyl)phtha...	16.030	149	221149	9.658	ug/mL	98
134)	Chrysene	16.162	228	286335	9.338	ug/mL	98
135)	Di-n-octyl phthalate	17.320	149	343799	9.784	ug/mL	99
136)	Hexachlorophene	19.057	196	599	No Calib	#	
138)	7,12-Dimethylbenz(a)an...	18.277	256	132797	8.561	ug/mL	96
139)	Benzo(b)fluoranthene	18.303	252	296606	8.950	ug/mL	94
140)	Benzo(k)fluoranthene	18.353	252	249336	8.973	ug/mL	96
141)	Benzo(a)pyrene	18.955	252	252180	9.388	ug/mL	95
142)	3-Methylcholanthrene	19.574	268	140533	10.229	ug/mL	97
143)	Indeno(1,2,3-cd)pyrene	20.823	276	266473	10.800	ug/mL	84
144)	Dibenzo(a,h)anthracene	20.842	278	227109	10.657	ug/mL	87
145)	Benzo(g,h,i)perylene	21.271	276	210662	11.437	ug/mL	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga004.D
Acq On : 6 Jul 2013 11:58
Operator : jfi
Sample : aa24827-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 12:23:04 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

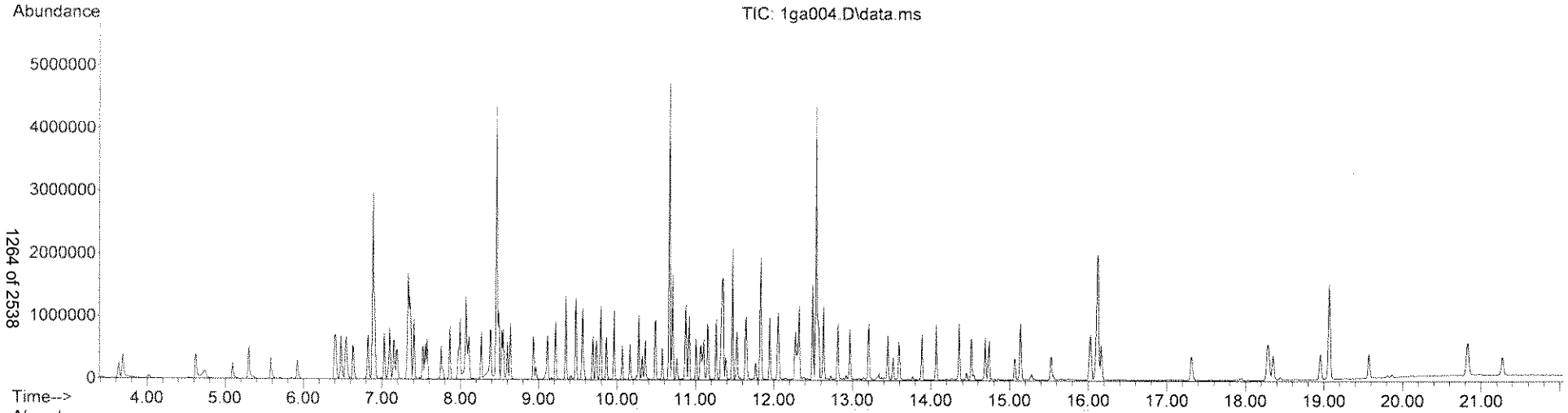
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

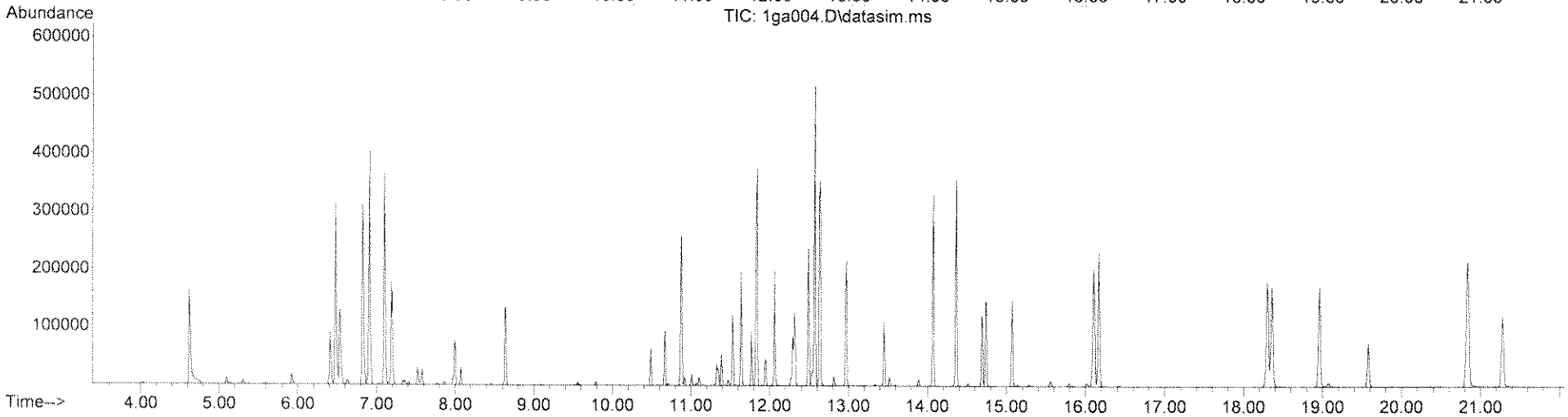
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga004.D
Acq On : 6 Jul 2013 11:58
Operator : jfi
Sample : aa24827-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 12:23:04 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 12:50:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.886	152	460905	40.00 ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	1940795	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.669	164	1064232	40.00 ug/mL	0.00
93) PHENANTHRENE-d10	12.541	188	1771186	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.118	240	1072054	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.065	264	810012	40.00 ug/mL	-0.02
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.307	112	600086	33.03 ug/mL	0.00
Spiked Amount 100.000			Recovery = 33.03%		
11) Phenol -D5 (acid surr)	6.396	99	838445	37.50 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 37.50%		
33) Nitrobenzene -D5 (b/n ...	7.556	82	691582	30.45 ug/mL	0.00
Spiked Amount 100.000			Recovery = 30.45%		
61) 2-Fluorobiphenyl (b/n ...	9.793	172	1374423	34.61 ug/mL	0.00
Spiked Amount 100.000			Recovery = 34.61%		
91) 2,4,6-Tribromophenol (...	11.654	330	180599	39.58 ug/mL	0.00
Spiked Amount 100.000			Recovery = 39.58%		
120) Terphenyl -D14 (b/n surr)	14.520	244	1502560	55.30 ug/mL	0.00
Spiked Amount 100.000			Recovery = 55.30%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.648	74	230	N.D.	
3) Pyridine	3.648	79	166	N.D.	
4) 2-Picoline	4.607	93	158	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.187	80	3225	N.D.	
8) 2-Fluorophenol	5.307	112	600086	33.028 ug/mL	93
9) N-Nitrosodiethylamine	5.587	102	109	N.D.	
10) Ethyl methanesulfonate	5.927	79	197	N.D.	
12) Phenol -D5	6.396	99	838445	37.496 ug/mL	86
13) Pentachloroethane	6.546	167	6518	N.D.	
14) aniline	6.556	93	836	N.D.	
15) Phenol	6.546	94	1186	N.D.	
16) Bis(2-chloroethyl)ether	6.556	93	982	N.D.	
17) 2-Chlorophenol	6.626	128	968	N.D.	
18) 1,3-Dichlorobenzene	6.826	146	766	N.D.	
19) 1,4-Dichlorobenzene	6.826	146	766	N.D.	
20) Benzyl Alcohol	7.046	108	570	N.D.	
21) 1,2-Dichlorobenzene	7.106	146	786	N.D.	
22) 2-Methylphenol	7.156	107	274	N.D.	
23) Bis(2-chloroisopropyl)...	7.186	45	388	N.D.	
24) Acetophenone	7.356	105	465	N.D.	
25) 3 & 4-Methylphenol	7.326	108	92	N.D.	
26) N-Nitrosodi-n-propylamine	7.326	70	989	N.D.	
27) N-Nitrosopyrrolidine	7.456	100	112	N.D.	
28) N-Nitrosomorpholine	7.486	56	79	N.D.	
29) Hexachloroethane	7.526	117	356	N.D.	
30) o-Toluidine	7.406	106	113	N.D.	
31) a,a-Dimethylphenethyla...	8.294	58	15388	N.D.	
34) Nitrobenzene -D5	7.556	82	691582	30.454 ug/mL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 12:50:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.556	77	3685	N.D.	
36) N-Nitrosopiperidine	7.836	114	275	N.D.	
37) Isophorone	7.836	82	1137	N.D.	
38) 2-Nitrophenol	7.976	139	210	N.D.	
39) 2,4-Dimethylphenol	8.015	122	436	N.D.	
40) Bis(2-chloroethoxy)met...	8.108	93	243	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	8.266	162	178	N.D.	
44) 1,2,4-Trichlorobenzene	8.378	180	1134	N.D.	
45) Naphthalene	8.490	128	1237	N.D.	
46) 4-Chloroaniline	8.527	127	112	N.D.	
47) 2,6-Dichlorophenol	8.546	162	97	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	8.639	223	71	N.D.	
50) N-Nitrosodi-n-Butylamine	8.918	84	528	N.D.	
51) p-Phenylenediamine	9.058	108	80	N.D.	
52) 4-Chloro-3-methylphenol	9.114	107	314	N.D.	
53) Safrole	9.216	162	75	N.D.	
54) 2-Methylnaphthalene	9.346	142	862	N.D.	
55) 1-Methylnaphthalene	9.467	142	516	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.561	216	744	N.D.	
59) 2,4,6-Trichlorophenol	9.682	196	178	N.D.	
60) 2,4,5-Trichlorophenol	9.737	196	84	N.D.	
62) 2-Fluorobiphenyl	9.793	172	1374423	34.608 ug/mL	100
63) Isosafrole	9.961	162	327	N.D.	
64) 2-Chloronaphthalene	9.961	162	327	N.D.	
65) 2-Nitroaniline	9.924	65	253	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.268	163	594	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	10.324	165	73	N.D.	
70) Acenaphthylene	10.492	152	586	N.D.	
71) 3-Nitroaniline	0.000		0	N.D.	
72) Acenaphthene	10.706	154	332	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	10.883	250	290	N.D.	
75) 4-Nitrophenol	10.753	109	89	N.D.	
76) Dibenzofuran	10.911	168	548	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.070	232	79	N.D.	
81) Diethyl phthalate	11.154	149	1708	N.D.	
82) 4-Chlorophenyl phenyl ...	11.322	204	231	N.D.	
83) Fluorene	11.353	166	430	N.D.	
84) Thionazin	0.000		0	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	11.333	138	78	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.473	169	599	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 12:50:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.473	169	599	N.D.	
90)	DPH (as Azobenzene)	0.000		0	N.D.	
92)	2,4,6-Tribromophenol	11.654	330	180599	39.581 ug/mL	96
94)	Sulfotepp	11.654	97	122	N.D.	
95)	Diallate	11.754	86	702	N.D.	
96)	Phorate	11.754	75	397	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	12.264	169	159	N.D.	
103)	Pentachlorophenol	12.287	266	91	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.564	178	1477	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.633	178	734	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.806	167	781	N.D.	
111)	Methyl Parathion	13.049	109	100	N.D.	
112)	Di-n-butyl phthalate	13.199	149	2490	N.D.	
113)	Parathion	0.000		0	N.D.	
114)	4-Nitroquinoline-1-oxide	13.476	190	93	N.D.	
115)	Methapyrilene	13.603	97	928	N.D.	
116)	Isodrin	13.887	193	200	N.D.	
117)	Fluoranthene	14.068	202	982	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.359	202	946	N.D.	
121)	Terphenyl -D14	14.520	244	1502560	55.295 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.133	149	459	N.D.	
125)	p-(dimethylamino)azobe...	14.821	225	80	N.D.	
126)	Chlorobenzilate	14.630	251	78	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.534	181	290	N.D.	
131)	3,3'-Dichlorobenzidine	16.008	252	364	N.D.	
132)	Benzo(a)anthracene	16.118	228	4414	N.D.	
133)	Bis(2-ethylhexyl)phtha...	16.030	149	2872	N.D.	
134)	Chrysene	16.162	228	1591	N.D.	
135)	Di-n-octyl phthalate	17.320	149	1626	N.D.	
136)	Hexachlorophene	19.065	196	466	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.269	256	551	N.D.	
139)	Benzo(b)fluoranthene	18.294	252	1655	N.D.	
140)	Benzo(k)fluoranthene	18.353	252	1727	N.D.	
141)	Benzo(a)pyrene	18.947	252	1487	N.D.	
142)	3-Methylcholanthrene	19.574	268	730	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.823	276	1554	N.D.	
144)	Dibenzo(a,h)anthracene	20.823	278	1575	N.D.	
145)	Benzo(g,h,i)perylene	21.271	276	1438	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 12:50:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

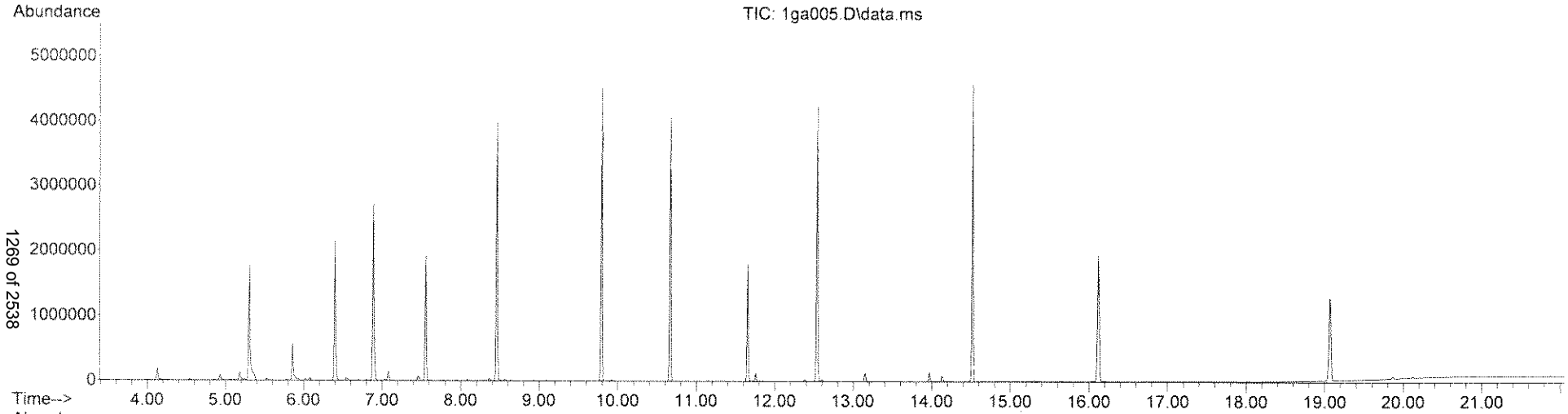
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

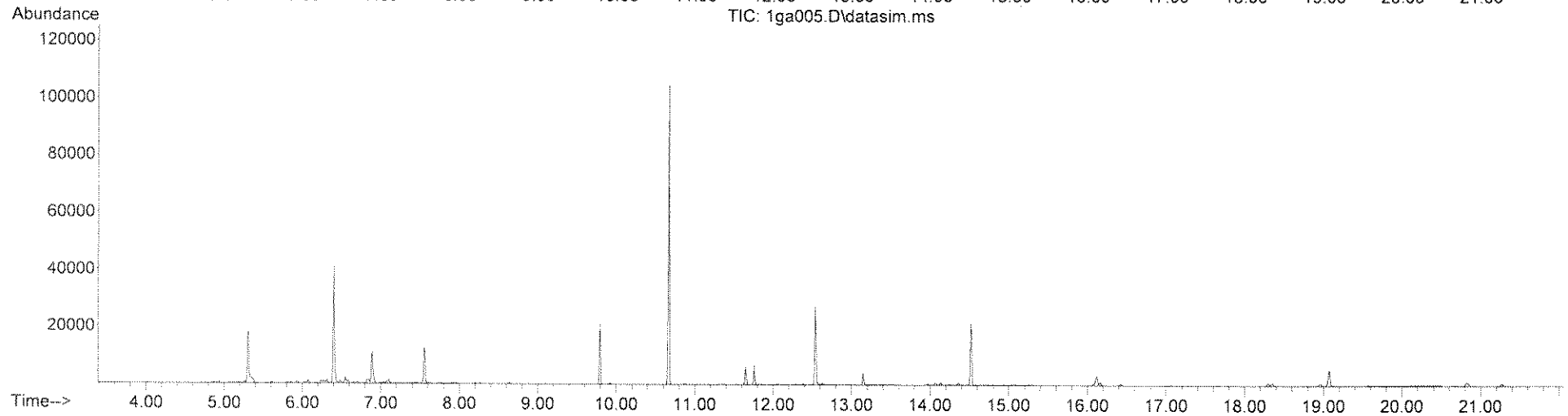
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 12:50:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 22:46:35 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

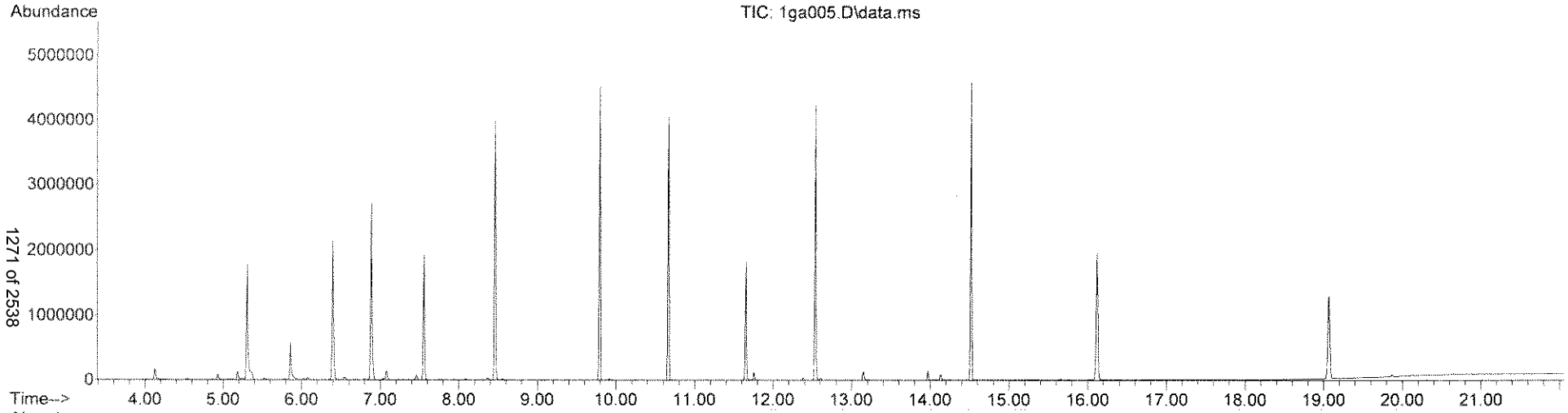
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	460905	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	1940795	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.669	164	1064232	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.541	188	1771186	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.118	240	1072054	40.00	ug/mL	-0.01
10) PERYLENE-d12	19.065	264	810012	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.356	106	594	N.D.		
4) Caprolactam	8.918	113	186	N.D.		
6) 1,1'-Biphenyl	9.924	154	345	N.D.		
7) Atrazine	12.113	200	193	N.D.		

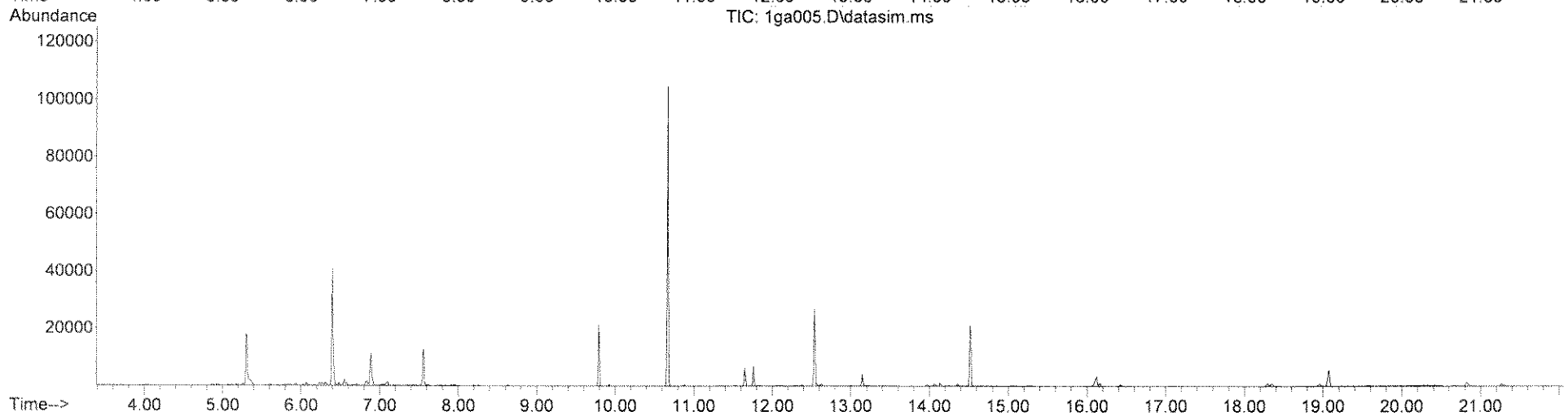
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 22:46:35 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1ga005.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.127	72	75	78	rBV	185804	247020	5.45%	0.599%
2	4.927	153	155	159	rBV	81484	108408	2.39%	0.263%
3	5.187	177	181	184	rBV	127321	193444	4.27%	0.469%
4	5.307	190	193	208	rVB	1785925	2392740	52.83%	5.801%
5	5.857	245	248	254	rBV	576136	733018	16.18%	1.777%
6	6.087	268	271	275	rVB	37467	58378	1.29%	0.142%
7	6.396	299	302	308	rBV	2137689	2486968	54.91%	6.030%
8	6.546	315	317	322	rVB	47320	65778	1.45%	0.159%
9	6.886	348	351	357	rVB	2712390	3049781	67.34%	7.395%
10	7.076	368	370	375	rVB2	138431	198533	4.38%	0.481%
11	7.456	403	408	413	rVB	76265	111740	2.47%	0.271%
12	7.556	415	418	421	rBV	1928257	2081731	45.96%	5.047%
13	8.462	509	512	515	rVV	3990715	4169192	92.06%	10.109%
14	9.793	652	655	658	rVB	4524296	4254573	93.94%	10.316%
15	10.669	745	749	751	rBV	4064286	4469585	98.69%	10.837%
16	11.654	849	852	855	rBV	1818029	1886826	41.66%	4.575%
17	11.754	859	862	865	rVB	119878	125085	2.76%	0.303%
18	12.541	931	934	936	rBV	4240733	4529014	100.00%	10.981%
19	13.152	984	987	989	rBV	130764	180834	3.99%	0.438%
20	13.967	1059	1062	1065	rBV	140961	144458	3.19%	0.350%
21	14.138	1076	1079	1081	rBV	82233	110265	2.43%	0.267%
22	14.520	1114	1117	1120	rVB	4585654	4437050	97.97%	10.758%
23	16.118	1265	1269	1272	rBV	1953675	2912429	64.31%	7.062%
24	19.065	1559	1565	1570	rBV	1266312	2296892	50.72%	5.569%

Sum of corrected areas: 41243742

Signal : TIC: 1ga005.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

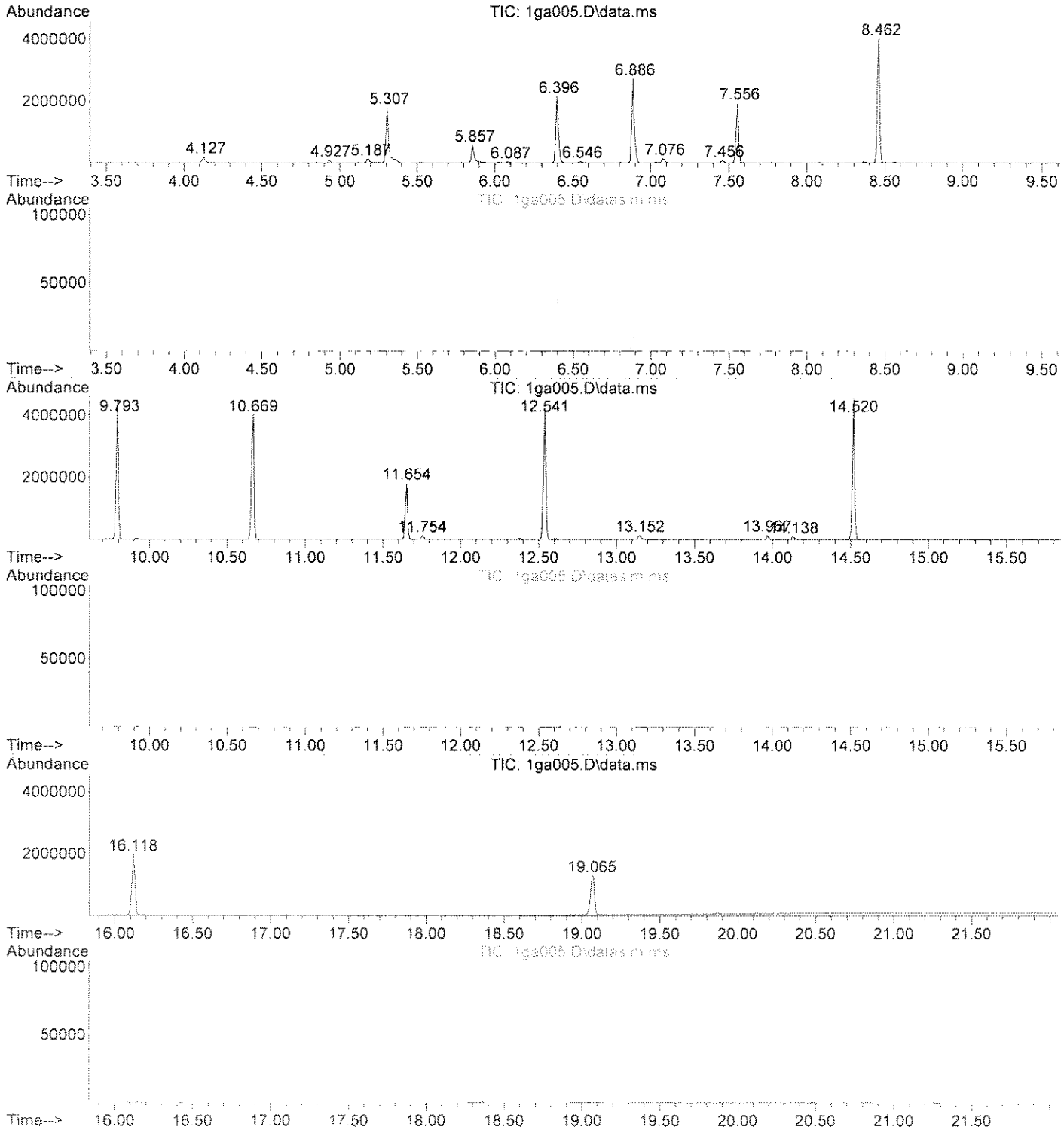
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On : 6 Jul 2013 12:26
Operator : jfi
Sample : 3f21017-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga005.D
Acq On    :  6 Jul 2013  12:26
Operator  : jfi
Sample    : 3f21017-blk1
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title  : TIC SEARCH

TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga006.D
Acq On : 6 Jul 2013 12:55
Operator : jfi
Sample : 3f21017-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 13:17:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	500665	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	2083283	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.669	164	1130623	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.540	188	1836452	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.129	240	1210170	40.00	ug/mL	-0.01
137) PERYLENE-d12	19.074	264	938496	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.317	112	828276	41.97	ug/mL	0.00
Spiked Amount 100.000			Recovery = 41.97%			
11) Phenol -D5 (acid surr)	6.406	99	1091897	44.95	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 44.95%			
33) Nitrobenzene -D5 (b/n ...	7.556	82	995757	40.85	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 40.85%			
61) 2-Fluorobiphenyl (b/n ...	9.793	172	1827447	43.31	ug/mL	0.00
Spiked Amount 100.000			Recovery = 43.31%			
91) 2,4,6-Tribromophenol (...	11.664	330	244736	50.49	ug/mL	0.00
Spiked Amount 100.000			Recovery = 50.49%			
120) Terphenyl -D14 (b/n surr)	14.520	244	1651883	58.63	ug/mL	0.00
Spiked Amount 100.000			Recovery = 58.63%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.647	74	522817	39.447	ug/mL	80
3) Pyridine	3.697	79	571100	26.595	ug/mL	99
4) 2-Picoline	4.657	93	216	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	5.187	80	687	N.D.		
8) 2-Fluorophenol	5.317	112	828276	41.967	ug/mL	91
9) N-Nitrosodiethylamine	5.587	102	190	N.D.		
10) Ethyl methanesulfonate	5.936	79	314	N.D.		
12) Phenol -D5	6.406	99	1091897	44.953	ug/mL	85
13) Pentachloroethane	6.546	167	7997	1.006	ug/mL	99
14) aniline	6.536	93	780733	24.420	ug/mL#	30
15) Phenol	6.426	94	988460	42.097	ug/mL	89
16) Bis(2-chloroethyl)ether	6.536	93	780360	42.778	ug/mL	85
17) 2-Chlorophenol	6.636	128	832458	43.881	ug/mL	95
18) 1,3-Dichlorobenzene	6.826	146	874965	39.029	ug/mL	98
19) 1,4-Dichlorobenzene	6.906	146	883140	38.810	ug/mL	99
20) Benzyl Alcohol	7.036	108	518913	41.927	ug/mL	90
21) 1,2-Dichlorobenzene	7.096	146	840364	39.843	ug/mL	99
22) 2-Methylphenol	7.166	107	660673	41.297	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.196	45	939260	41.258	ug/mL	93
24) Acetophenone	7.366	105	1155488	40.539	ug/mL#	71
25) 3 & 4-Methylphenol	7.346	108	827319	41.694	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.366	70	686221	46.987	ug/mL	96
27) N-Nitrosopyrrolidine	7.346	100	422879	44.315	ug/mL	90
28) N-Nitrosomorpholine	7.366	56	51035	3.810	ug/mL#	49
29) Hexachloroethane	7.526	117	347704	38.667	ug/mL	99
30) o-Toluidine	7.446	106	645	N.D.		
31) a,a-Dimethylphenethyla...	8.425	58	16001	N.D.		
34) Nitrobenzene -D5	7.556	82	995757	40.849	ug/mL	94

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga006.D
Acq On : 6 Jul 2013 12:55
Operator : jfi
Sample : 3f21017-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 13:17:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.586	77	904800	41.177 ug/mL	93
36) N-Nitrosopiperidine	7.686	114	86	N.D.	
37) Isophorone	7.876	82	1740813	48.317 ug/mL	99
38) 2-Nitrophenol	7.976	139	421015	42.380 ug/mL	90
39) 2,4-Dimethylphenol	8.006	122	623950	34.871 ug/mL	94
40) Bis(2-chloroethoxy)met...	8.117	93	941381	43.295 ug/mL	96
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	8.127	105	622699	48.745 ug/mL#	1
43) 2,4-Dichlorophenol	8.276	162	657523	43.866 ug/mL	99
44) 1,2,4-Trichlorobenzene	8.387	180	760739	40.591 ug/mL	96
45) Naphthalene	8.490	128	2414305	40.563 ug/mL	99
46) 4-Chloroaniline	8.536	127	423879	18.280 ug/mL	99
47) 2,6-Dichlorophenol	8.555	162	587546	38.327 ug/mL	100
48) Hexachloropropene	8.611	213	102	N.D.	
49) Hexachlorobutadiene	8.639	223	287693	39.510 ug/mL	99
50) N-Nitrosodi-n-Butylamine	8.983	84	159628	10.992 ug/mL#	34
51) p-Phenylenediamine	9.011	108	113	N.D.	
52) 4-Chloro-3-methylphenol	9.123	107	769813	45.178 ug/mL	89
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.346	142	1646105	41.602 ug/mL	96
55) 1-Methylnaphthalene	9.477	142	1396268	31.244 ug/mL	97
56) Hexachlorocyclopentadiene	9.551	237	481331	50.166 ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.570	216	790617	41.475 ug/mL	97
59) 2,4,6-Trichlorophenol	9.691	196	495457	44.888 ug/mL	98
60) 2,4,5-Trichlorophenol	9.747	196	521320	43.544 ug/mL	99
62) 2-Fluorobiphenyl	9.793	172	1827447	43.313 ug/mL	100
63) Isosafrole	9.747	162	18439	1.350 ug/mL	79
64) 2-Chloronaphthalene	9.970	162	1447866	41.930 ug/mL	99
65) 2-Nitroaniline	10.073	65	490031	42.751 ug/mL	88
66) 1,4-Naphthoquinone	10.277	158	241	N.D.	
67) Dimethyl phthalate	10.287	163	1762051	44.790 ug/mL	99
68) m-Dinitrobenzene	10.370	168	318	N.D.	
69) 2,6-Dinitrotoluene	10.370	165	396303	45.486 ug/mL	86
70) Acenaphthylene	10.491	152	2410785	41.997 ug/mL	99
71) 3-Nitroaniline	10.585	138	309488	36.457 ug/mL	94
72) Acenaphthene	10.715	154	1597792	42.499 ug/mL	98
73) 2,4-Dinitrophenol	10.715	184	228679	40.078 ug/mL#	69
74) Pentachlorobenzene	10.874	250	761	N.D.	
75) 4-Nitrophenol	10.771	109	267456	48.401 ug/mL	95
76) Dibenzofuran	10.921	168	1991249	42.080 ug/mL	95
77) 2,4-Dinitrotoluene	10.874	165	515633	44.796 ug/mL	96
78) 2-Naphthylamine	11.004	143	135	N.D.	
79) 1-Naphthylamine	11.163	143	340	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.070	232	422304	45.189 ug/mL	98
81) Diethyl phthalate	11.163	149	1844703	47.335 ug/mL	97
82) 4-Chlorophenyl phenyl ...	11.332	204	864660	44.837 ug/mL	95
83) Fluorene	11.363	166	1729725	42.698 ug/mL	100
84) Thionazin	11.303	107	83	N.D.	
85) 5-Nitro-o-toluidine	11.332	152	2384	N.D.	
86) 4-Nitroaniline	11.363	138	351912	41.331 ug/mL	83
87) 2-Methyl-4,6-dinitroph...	11.403	198	318400	48.148 ug/mL	98
88) Diphenylamine/N-Nitros...	11.483	169	1212127	37.966 ug/mL	98

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga006.D
Acq On : 6 Jul 2013 12:55
Operator : jfi
Sample : 3f21017-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 13:17:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.483	169	1212127	18.983 ug/mL	98
90)	DPH (as Azobenzene)	11.533	182	483225	46.871 ug/mL	93
92)	2,4,6-Tribromophenol	11.664	330	244736	50.488 ug/mL	97
94)	Sulfotepp	11.624	97	447	N.D.	
95)	Diallate	11.815	86	1183	N.D.	
96)	Phorate	11.815	75	1793	N.D.	
97)	4-Bromophenylphenyl ether	11.955	248	502634	43.057 ug/mL	97
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.935	213	1407	N.D.	
100)	Hexachlorobenzene	12.067	284	510976	44.822 ug/mL	99
101)	Dimethoate	12.125	87	28016	2.246 ug/mL#	20
102)	4-Aminobiphenyl	12.298	169	47502	1.246 ug/mL	66
103)	Pentachlorophenol	12.298	266	294743	43.306 ug/mL	98
104)	Pronamide	12.194	173	98	N.D.	
105)	Pentachloronitrobenzene	12.298	237	11393	2.388 ug/mL#	25
106)	Phenanthrene	12.575	178	2511486	47.623 ug/mL	99
107)	Disulfoton	12.575	88	195348	9.864 ug/mL#	31
108)	Anthracene	12.633	178	2423172	44.975 ug/mL	98
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.818	167	2003738	46.388 ug/mL	98
111)	Methyl Parathion	12.979	109	1452	N.D.	
112)	Di-n-butyl phthalate	13.210	149	3183721	54.683 ug/mL	97
113)	Parathion	13.452	109	325	N.D.	
114)	4-Nitroquinoline-1-oxide	13.568	190	643	N.D.	
115)	Methapyrilene	13.591	97	981	N.D.	
116)	Isodrin	13.887	193	212545	45.949 ug/mL	90
117)	Fluoranthene	14.078	202	2074053	54.358 ug/mL	95
118)	Benzidine	13.887	184	13665	43.603 ug/mL	88
119)	Pyrene	14.369	202	2059848	51.752 ug/mL	94
121)	Terphenyl -D14	14.520	244	1651883	58.630 ug/mL	99
122)	Aramite	14.520	185	3755	5.496 ug/mL#	46
123)	Benzylbutyl phthalate	15.143	149	861058	53.448 ug/mL	96
125)	p-(dimethylamino)azobe...	14.520	225	7478	N.D.	
126)	Chlorobenzilate	14.691	251	101	N.D.	
127)	Famphur	15.920	218	384	No Calib #	
128)	3,3'-Dimethylbenzidine	15.143	212	1009	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.534	181	505	N.D.	
131)	3,3'-Dichlorobenzidine	16.030	252	328958	30.592 ug/mL	97
132)	Benzo(a)anthracene	16.107	228	1702028	49.654 ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	16.041	149	1175681	50.772 ug/mL	98
134)	Chrysene	16.184	228	1629686	52.554 ug/mL	97
135)	Di-n-octyl phthalate	17.320	149	1828003	51.444 ug/mL	100
136)	Hexachlorophene	19.074	196	613	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.302	256	655	N.D.	
139)	Benzo(b)fluoranthene	18.311	252	1307730	39.113 ug/mL	96
140)	Benzo(k)fluoranthene	18.370	252	1356650	48.390 ug/mL	96
141)	Benzo(a)pyrene	18.972	252	1115499	41.162 ug/mL	95
142)	3-Methylcholanthrene	19.574	268	1233	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.842	276	1180647	47.427 ug/mL	82
144)	Dibenzo(a,h)anthracene	20.851	278	1074877	49.993 ug/mL	89
145)	Benzo(g,h,i)perylene	21.290	276	938103	50.480 ug/mL	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga006.D
Acq On : 6 Jul 2013 12:55
Operator : jfi
Sample : 3f21017-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 13:17:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

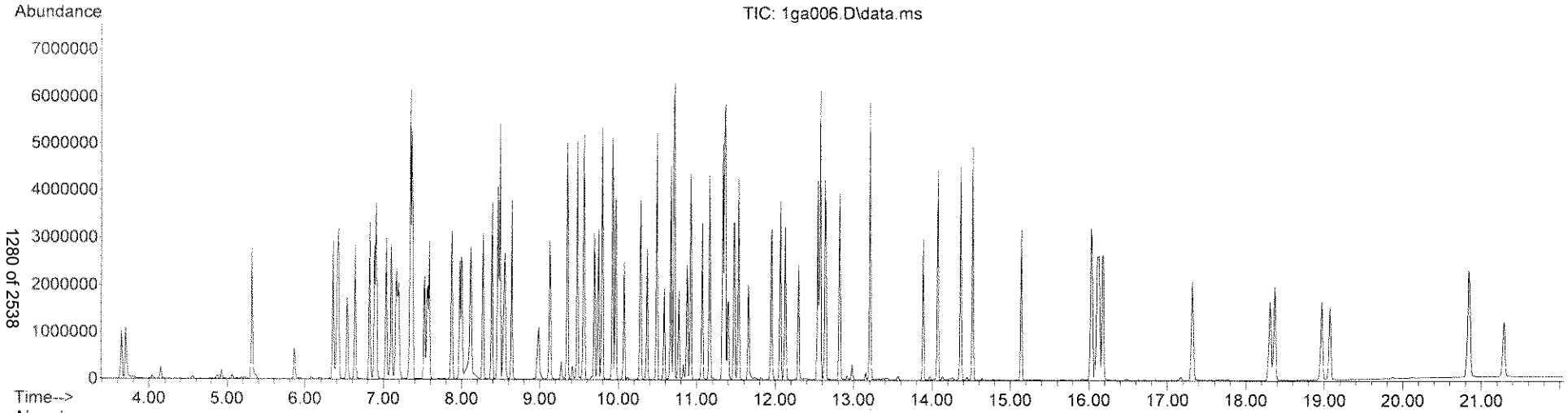
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

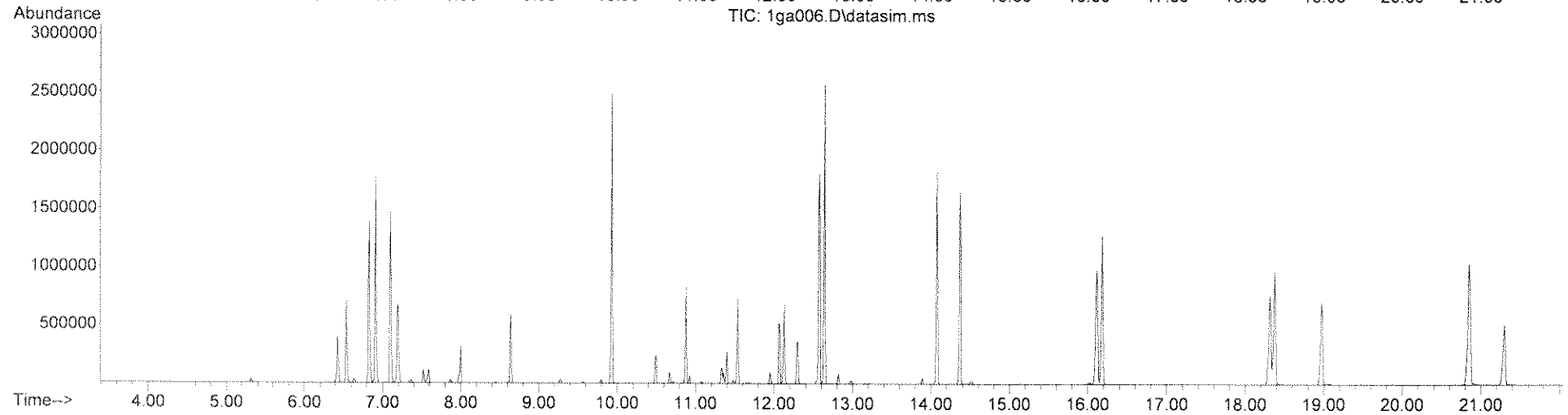
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga006.D
Acq On : 6 Jul 2013 12:55
Operator : jfi
Sample : 3f21017-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 13:17:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga006.D
Acq On : 6 Jul 2013 12:55
Operator : jfi
Sample : 3f21017-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 22:46:37 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

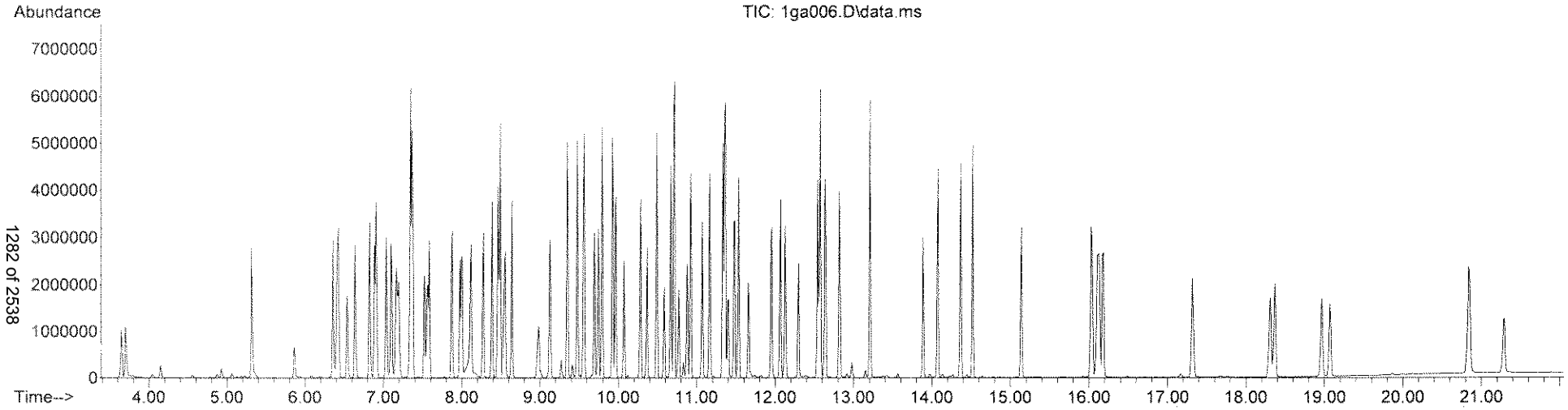
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	500665	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	2083283	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.669	164	1130623	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.540	188	1836452	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.129	240	1210170	40.00	ug/mL	0.00
10) PERYLENE-d12	19.074	264	938496	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.356	106	611286	43.183	ug/mL	97
4) Caprolactam	8.983	113	267301	59.533	ug/mL	96
6) 1,1'-Biphenyl	9.924	154	1982685	44.114	ug/mL	97
7) Atrazine	12.125	200	484977	50.301	ug/mL	98

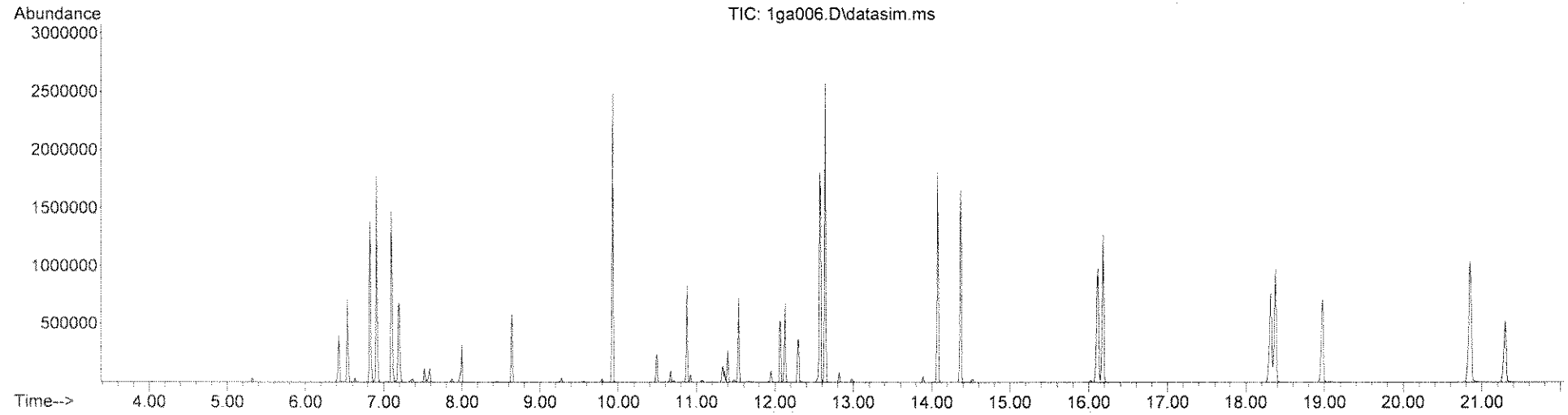
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga006.D
Acq On : 6 Jul 2013 12:55
Operator : jfi
Sample : 3f21017-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 22:46:37 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga007.D
Acq On : 6 Jul 2013 13:23
Operator : jfi
Sample : 3f21017-ms1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 14:16:16 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	391884	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	1619683	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.669	164	914488	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.541	188	1571149	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.129	240	1078103	40.00	ug/mL	-0.01
137) PERYLENE-d12	19.074	264	745326	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.317	112	397169	25.71	ug/mL	0.00
Spiked Amount 100.000			Recovery = 25.71%			
11) Phenol -D5 (acid surr)	6.406	99	556489	29.27	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 29.27%			
33) Nitrobenzene -D5 (b/n ...	7.556	82	508025	26.81	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 26.81%			
61) 2-Fluorobiphenyl (b/n ...	9.793	172	988669	28.97	ug/mL	0.00
Spiked Amount 100.000			Recovery = 28.97%			
91) 2,4,6-Tribromophenol (...	11.654	330	188243	48.01	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 48.01%			
120) Terphenyl -D14 (b/n surr)	14.520	244	1301225	53.98	ug/mL	0.00
Spiked Amount 100.000			Recovery = 53.98%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.647	74	314493	30.315	ug/mL	81
3) Pyridine	3.697	79	366893	21.828	ug/mL	100
4) 2-Picoline	4.677	93	193	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	5.177	80	77	N.D.		
8) 2-Fluorophenol	5.317	112	397169	25.710	ug/mL	94
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.936	79	91	N.D.		
12) Phenol -D5	6.406	99	556489	29.270	ug/mL	86
13) Pentachloroethane	6.556	167	2055	N.D.		
14) aniline	6.536	93	427232	17.072	ug/mL#	30
15) Phenol	6.426	94	599324	32.610	ug/mL	89
16) Bis(2-chloroethyl)ether	6.536	93	426801	29.891	ug/mL	87
17) 2-Chlorophenol	6.636	128	449135	30.247	ug/mL	97
18) 1,3-Dichlorobenzene	6.826	146	445968	25.415	ug/mL	100
19) 1,4-Dichlorobenzene	6.906	146	453833	25.480	ug/mL	99
20) Benzyl Alcohol	7.036	108	312073	32.214	ug/mL	90
21) 1,2-Dichlorobenzene	7.096	146	442322	26.792	ug/mL	99
22) 2-Methylphenol	7.156	107	404094	32.270	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.196	45	513235	28.803	ug/mL	95
24) Acetophenone	7.366	105	651758	29.214	ug/mL#	75
25) 3 & 4-Methylphenol	7.336	108	516040	33.226	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.356	70	395854	34.629	ug/mL	99
27) N-Nitrosopyrrolidine	7.336	100	260112	34.824	ug/mL	90
28) N-Nitrosomorpholine	7.356	56	28338	2.703	ug/mL#	49
29) Hexachloroethane	7.526	117	171672	24.391	ug/mL	99
30) o-Toluidine	7.286	106	411	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.556	82	508025	26.806	ug/mL	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga007.D
Acq On : 6 Jul 2013 13:23
Operator : jfi
Sample : 3f21017-ms1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 14:16:16 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.586	77	508124	29.744 ug/mL	93
36) N-Nitrosopiperidine	7.726	114	80	N.D.	
37) Isophorone	7.866	82	1104223	39.420 ug/mL	98
38) 2-Nitrophenol	7.976	139	238375	30.863 ug/mL	90
39) 2,4-Dimethylphenol	7.996	122	494411	35.541 ug/mL	96
40) Bis(2-chloroethoxy)met...	8.108	93	541751	32.047 ug/mL	97
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	8.155	105	50584	5.093 ug/mL#	76
43) 2,4-Dichlorophenol	8.266	162	432386	37.103 ug/mL	98
44) 1,2,4-Trichlorobenzene	8.387	180	405525	27.831 ug/mL	97
45) Naphthalene	8.490	128	1346620	29.100 ug/mL	100
46) 4-Chloroaniline	8.536	127	479087	26.575 ug/mL	100
47) 2,6-Dichlorophenol	8.555	162	409800	34.384 ug/mL	99
48) Hexachloropropene	8.639	213	74	N.D.	
49) Hexachlorobutadiene	8.639	223	146032	25.795 ug/mL	98
50) N-Nitrosodi-n-Butylamine	8.974	84	141380	12.522 ug/mL#	36
51) p-Phenylenediamine	9.011	108	164	N.D.	
52) 4-Chloro-3-methylphenol	9.123	107	639619	48.281 ug/mL	89
53) Safrole	9.225	162	77	N.D.	
54) 2-Methylnaphthalene	9.346	142	988207	32.123 ug/mL	96
55) 1-Methylnaphthalene	9.477	142	875746	25.206 ug/mL	97
56) Hexachlorocyclopentadiene	9.551	237	241345	32.354 ug/mL	98
58) 1,2,4,5-Tetrachloroben...	9.560	216	520737	33.774 ug/mL	98
59) 2,4,6-Trichlorophenol	9.691	196	397354	44.509 ug/mL	97
60) 2,4,5-Trichlorophenol	9.747	196	442003	45.645 ug/mL	100
62) 2-Fluorobiphenyl	9.793	172	988669	28.971 ug/mL	100
63) Isosafrole	9.747	162	16400	1.484 ug/mL	84
64) 2-Chloronaphthalene	9.961	162	954587	34.178 ug/mL	97
65) 2-Nitroaniline	10.073	65	413449	44.595 ug/mL	90
66) 1,4-Naphthoquinone	10.268	158	75	N.D.	
67) Dimethyl phthalate	10.287	163	1524024	47.895 ug/mL	100
68) m-Dinitrobenzene	10.361	168	345	N.D.	
69) 2,6-Dinitrotoluene	10.370	165	330504	46.899 ug/mL	87
70) Acenaphthylene	10.492	152	1771495	38.154 ug/mL	99
71) 3-Nitroaniline	10.585	138	296123	43.127 ug/mL	94
72) Acenaphthene	10.706	154	1224902	40.281 ug/mL	100
73) 2,4-Dinitrophenol	10.715	184	194267	41.778 ug/mL	91
74) Pentachlorobenzene	10.874	250	780	N.D.	
75) 4-Nitrophenol	10.771	109	251041	56.167 ug/mL	95
76) Dibenzofuran	10.921	168	1543739	40.333 ug/mL	94
77) 2,4-Dinitrotoluene	10.874	165	457378	49.127 ug/mL	96
78) 2-Naphthylamine	11.070	143	11946	N.D.	
79) 1-Naphthylamine	11.070	143	11946	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.070	232	418696	55.392 ug/mL	97
81) Diethyl phthalate	11.163	149	1646956	52.249 ug/mL	97
82) 4-Chlorophenyl phenyl ...	11.332	204	697814	44.738 ug/mL	97
83) Fluorene	11.352	166	1401097	42.760 ug/mL	98
84) Thionazin	11.284	107	154	N.D.	
85) 5-Nitro-o-toluidine	11.393	152	14750	1.727 ug/mL#	1
86) 4-Nitroaniline	11.363	138	335232	48.678 ug/mL	86
87) 2-Methyl-4,6-dinitroph...	11.403	198	291100	54.424 ug/mL	99
88) Diphenylamine/N-Nitros...	11.473	169	1039418	40.251 ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga007.D
Acq On : 6 Jul 2013 13:23
Operator : jfi
Sample : 3f21017-ms1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 14:16:16 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.473	169	1039418	20.125 ug/mL	97
90)	DPH (as Azobenzene)	11.533	182	408736	49.016 ug/mL	93
92)	2,4,6-Tribromophenol	11.654	330	188243	48.012 ug/mL	100
94)	Sulfotepp	11.654	97	2494	N.D.	
95)	Diallate	11.815	86	918	N.D.	
96)	Phorate	11.815	75	1156	N.D.	
97)	4-Bromophenylphenyl ether	11.955	248	415199	41.573 ug/mL	96
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.825	213	78	N.D.	
100)	Hexachlorobenzene	12.067	284	436809	44.786 ug/mL	99
101)	Dimethoate	12.067	87	657	N.D.	
102)	4-Aminobiphenyl	12.298	169	54000	1.656 ug/mL	57
103)	Pentachlorophenol	12.298	266	304086	52.223 ug/mL	99
104)	Pronamide	12.298	173	111	N.D.	
105)	Pentachloronitrobenzene	12.298	237	11336	2.778 ug/mL#	25
106)	Phenanthrene	12.575	178	2308783	51.172 ug/mL	99
107)	Disulfoton	12.575	88	180364	10.645 ug/mL#	32
108)	Anthracene	12.633	178	2167835	47.030 ug/mL	99
109)	Dinoseb	12.610	211	92	N.D.	
110)	Carbazole	12.818	167	1875672	50.756 ug/mL	98
111)	Methyl Parathion	12.945	109	679	N.D.	
112)	Di-n-butyl phthalate	13.210	149	2914917	58.520 ug/mL	97
113)	Parathion	13.441	109	283	N.D.	
114)	4-Nitroquinoline-1-oxide	13.499	190	143	N.D.	
115)	Methapyrilene	13.568	97	574	N.D.	
116)	Isodrin	13.887	193	187919	47.485 ug/mL	90
117)	Fluoranthene	14.078	202	1947707	59.667 ug/mL	94
118)	Benzidine	13.887	184	12772	47.635 ug/mL	95
119)	Pyrene	14.369	202	1953327	57.362 ug/mL	94
121)	Terphenyl -D14	14.520	244	1301225	53.983 ug/mL	99
122)	Aramite	14.459	185	477	N.D.	
123)	Benzylbutyl phthalate	15.143	149	850674	61.720 ug/mL	94
125)	p-(dimethylamino)azobe...	14.660	225	258	N.D.	
126)	Chlorobenzilate	14.741	251	491	N.D.	
127)	Famphur	15.810	218	663	No Calib #	
128)	3,3'-Dimethylbenzidine	15.133	212	1309	N.D.	
129)	Kepone	19.820	272	331	No Calib #	
130)	2-Acetylaminofluorene	15.534	181	1661	N.D.	
131)	3,3'-Dichlorobenzidine	16.030	252	412473	43.058 ug/mL	99
132)	Benzo(a)anthracene	16.107	228	1675683	54.874 ug/mL	97
133)	Bis(2-ethylhexyl)phtha...	16.041	149	1171378	56.783 ug/mL	98
134)	Chrysene	16.173	228	1595083	57.739 ug/mL	98
135)	Di-n-octyl phthalate	17.320	149	1802093	56.927 ug/mL	100
136)	Hexachlorophene	19.074	196	789	No Calib	
138)	7,12-Dimethylbenz(a)an...	18.285	256	990	N.D.	
139)	Benzo(b)fluoranthene	18.311	252	1245588	46.910 ug/mL	96
140)	Benzo(k)fluoranthene	18.370	252	1245612	55.944 ug/mL	96
141)	Benzo(a)pyrene	18.972	252	1037806	48.220 ug/mL	95
142)	3-Methylcholanthrene	19.659	268	443	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.833	276	774381	39.169 ug/mL	81
144)	Dibenzo(a,h)anthracene	20.842	278	691325	40.488 ug/mL	85
145)	Benzo(g,h,i)perylene	21.280	276	563841	38.204 ug/mL	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga007.D
Acq On : 6 Jul 2013 13:23
Operator : jfi
Sample : 3f21017-ms1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 14:16:16 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

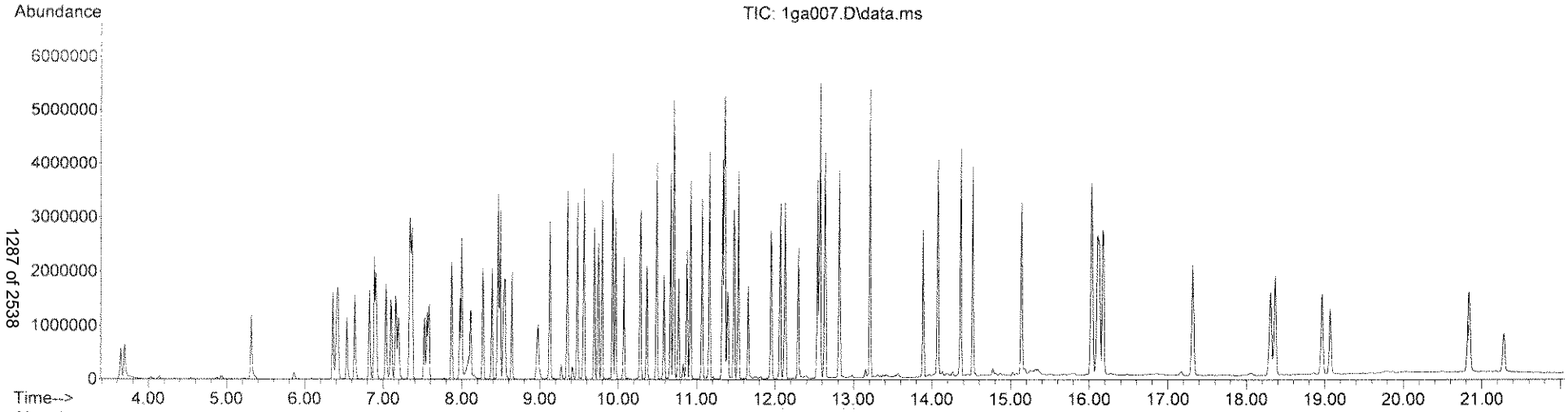
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

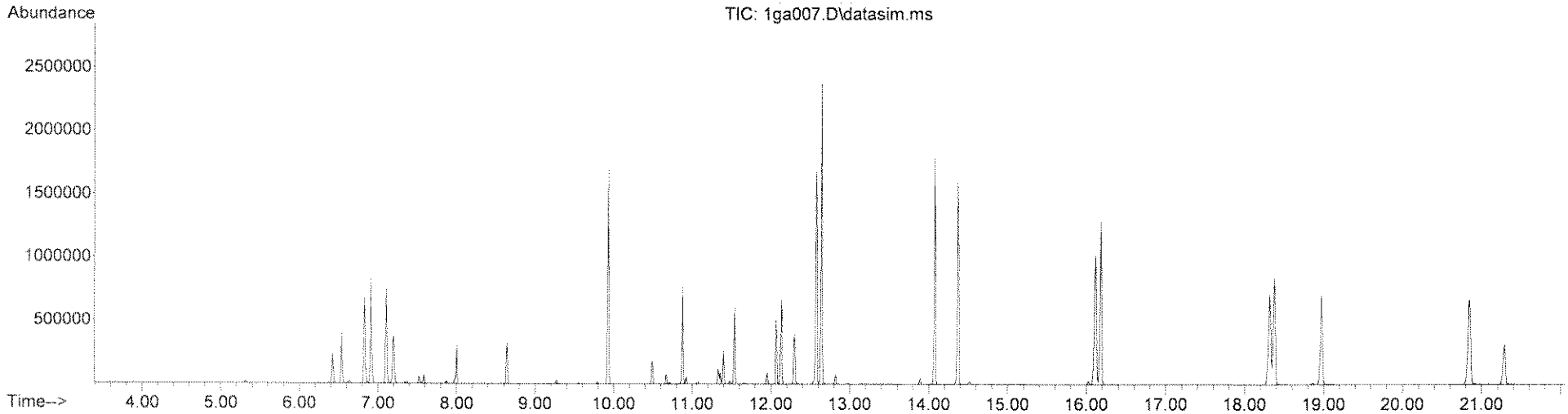
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga007.D
Acq On : 6 Jul 2013 13:23
Operator : jfi
Sample : 3f21017-ms1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 14:16:16 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga007.D
Acq On : 6 Jul 2013 13:23
Operator : jfi
Sample : 3f21017-ms1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 22:46:39 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

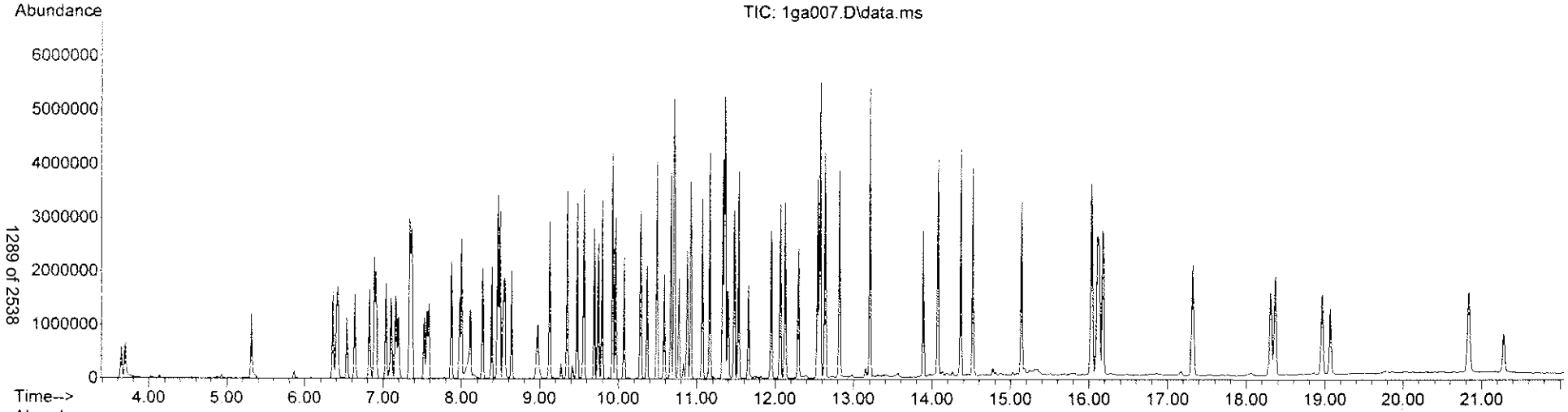
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.886	152	391884	40.00 ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	1619683	40.00 ug/mL	0.00
5) ACENAPHTHENE-d10	10.669	164	914488	40.00 ug/mL	0.00
8) PHENANTHRENE-d10	12.541	188	1571149	40.00 ug/mL	0.00
9) CHRYSENE-d12	16.129	240	1078103	40.00 ug/mL	0.00
10) PERYLENE-d12	19.074	264	745860	40.00 ug/mL	0.00
Target Compounds					Qvalue
2) Benzaldehyde	6.356	106	344258	31.070 ug/mL	97
4) Caprolactam	8.974	113	235974	67.599 ug/mL	97
6) 1,1'-Biphenyl	9.924	154	1355589	37.290 ug/mL	98
7) Atrazine	12.125	200	477991	61.294 ug/mL	98

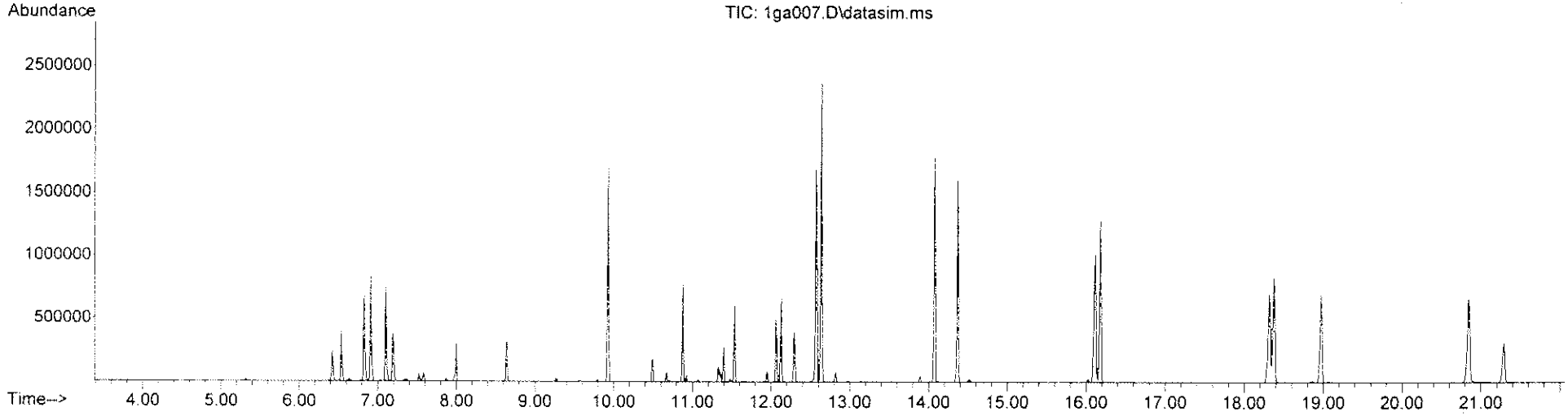
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga007.D
Acq On : 6 Jul 2013 13:23
Operator : jfi
Sample : 3f21017-ms1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 22:46:39 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga008.D
Acq On : 6 Jul 2013 13:51
Operator : jfi
Sample : 3f21017-msd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 14:16:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	439429	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	1869113	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.669	164	1043521	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.540	188	1721983	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.129	240	1221763	40.00	ug/mL	-0.01
137) PERYLENE-d12	19.074	264	744551	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.317	112	491273	28.36	ug/mL	0.00
Spiked Amount 100.000			Recovery = 28.36%			
11) Phenol -D5 (acid surr)	6.406	99	707685	33.20	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 33.20%			
33) Nitrobenzene -D5 (b/n ...	7.556	82	590795	27.01	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 27.01%			
61) 2-Fluorobiphenyl (b/n ...	9.793	172	1260843	32.38	ug/mL	0.00
Spiked Amount 100.000			Recovery = 32.38%			
91) 2,4,6-Tribromophenol (...	11.664	330	235848	52.72	ug/mL	0.00
Spiked Amount 100.000			Recovery = 52.72%			
120) Terphenyl -D14 (b/n surr)	14.520	244	1456220	55.12	ug/mL	0.00
Spiked Amount 100.000			Recovery = 55.12%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.647	74	357615	30.742	ug/mL	81
3) Pyridine	3.697	79	406868	21.588	ug/mL	99
4) 2-Picoline	4.567	93	237	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	5.187	80	199	N.D.		
8) 2-Fluorophenol	5.317	112	491273	28.361	ug/mL	90
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.926	79	92	N.D.		
12) Phenol -D5	6.406	99	707685	33.195	ug/mL	84
13) Pentachloroethane	6.546	167	2595	N.D.		
14) aniline	6.536	93	477463	17.015	ug/mL#	30
15) Phenol	6.426	94	725307	35.195	ug/mL	88
16) Bis(2-chloroethyl)ether	6.536	93	477463	29.821	ug/mL	85
17) 2-Chlorophenol	6.636	128	551939	33.149	ug/mL	95
18) 1,3-Dichlorobenzene	6.826	146	448588	22.798	ug/mL	99
19) 1,4-Dichlorobenzene	6.906	146	454314	22.747	ug/mL	99
20) Benzyl Alcohol	7.036	108	392319	36.116	ug/mL	87
21) 1,2-Dichlorobenzene	7.096	146	445669	24.074	ug/mL	98
22) 2-Methylphenol	7.156	107	498766	35.521	ug/mL	92
23) Bis(2-chloroisopropyl)...	7.196	45	536117	26.832	ug/mL	92
24) Acetophenone	7.366	105	796738	31.848	ug/mL#	73
25) 3 & 4-Methylphenol	7.346	108	652933	37.491	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.356	70	449451	35.064	ug/mL	94
27) N-Nitrosopyrrolidine	7.336	100	328266	39.194	ug/mL	88
28) N-Nitrosomorpholine	7.266	56	198	N.D.		
29) Hexachloroethane	7.526	117	169361	21.459	ug/mL	99
30) o-Toluidine	7.426	106	91	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.556	82	590795	27.013	ug/mL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga008.D
Acq On : 6 Jul 2013 13:51
Operator : jfi
Sample : 3f21017-msd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 14:16:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.586	77	578920	29.366 ug/mL	91
36) N-Nitrosopiperidine	7.726	114	128	N.D.	
37) Isophorone	7.866	82	1310611	40.544 ug/mL	98
38) 2-Nitrophenol	7.976	139	290045	32.541 ug/mL	88
39) 2,4-Dimethylphenol	7.996	122	600472	37.405 ug/mL	95
40) Bis(2-chloroethoxy)met...	8.117	93	654300	33.540 ug/mL	96
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	8.173	105	37611	3.282 ug/mL#	60
43) 2,4-Dichlorophenol	8.276	162	536730	39.911 ug/mL	99
44) 1,2,4-Trichlorobenzene	8.387	180	440556	26.201 ug/mL	96
45) Naphthalene	8.490	128	1485035	27.809 ug/mL	99
46) 4-Chloroaniline	8.536	127	573578	27.571 ug/mL	99
47) 2,6-Dichlorophenol	8.555	162	516412	37.547 ug/mL	100
48) Hexachloropropene	8.611	213	162	N.D.	
49) Hexachlorobutadiene	8.639	223	154454	23.642 ug/mL	97
50) N-Nitrosodi-n-Butylamine	8.983	84	172442	13.235 ug/mL#	35
51) p-Phenylenediamine	8.993	108	366	N.D.	
52) 4-Chloro-3-methylphenol	9.123	107	774268	50.646 ug/mL	88
53) Safrole	9.076	162	165	N.D.	
54) 2-Methylnaphthalene	9.346	142	1141091	32.143 ug/mL	96
55) 1-Methylnaphthalene	9.477	142	1004991	25.065 ug/mL	96
56) Hexachlorocyclopentadiene	9.551	237	259961	30.199 ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.560	216	629010	35.752 ug/mL	97
59) 2,4,6-Trichlorophenol	9.691	196	507651	49.832 ug/mL	98
60) 2,4,5-Trichlorophenol	9.747	196	530543	48.013 ug/mL	98
62) 2-Fluorobiphenyl	9.793	172	1260843	32.378 ug/mL	99
63) Isosafrole	9.747	162	18503	1.468 ug/mL	79
64) 2-Chloronaphthalene	9.961	162	1119066	35.113 ug/mL	97
65) 2-Nitroaniline	10.073	65	486308	45.967 ug/mL	86
66) 1,4-Naphthoquinone	10.249	158	84	N.D.	
67) Dimethyl phthalate	10.287	163	1852069	51.008 ug/mL	100
68) m-Dinitrobenzene	10.324	168	85	N.D.	
69) 2,6-Dinitrotoluene	10.370	165	406919	50.603 ug/mL	82
70) Acenaphthylene	10.491	152	2131912	40.239 ug/mL	99
71) 3-Nitroaniline	10.585	138	344265	43.939 ug/mL	94
72) Acenaphthene	10.715	154	1464418	42.203 ug/mL	97
73) 2,4-Dinitrophenol	10.715	184	227516	42.709 ug/mL#	87
74) Pentachlorobenzene	10.883	250	795	N.D.	
75) 4-Nitrophenol	10.771	109	273492	53.624 ug/mL	95
76) Dibenzofuran	10.921	168	1859915	42.585 ug/mL	94
77) 2,4-Dinitrotoluene	10.883	165	534940	50.353 ug/mL	91
78) 2-Naphthylamine	11.004	143	367	N.D.	
79) 1-Naphthylamine	11.070	143	14030	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.070	232	481208	55.790 ug/mL	96
81) Diethyl phthalate	11.163	149	1861850	51.763 ug/mL	97
82) 4-Chlorophenyl phenyl ...	11.332	204	828335	46.539 ug/mL	95
83) Fluorene	11.352	166	1676584	44.841 ug/mL	100
84) Thionazin	11.256	107	898	N.D.	
85) 5-Nitro-o-toluidine	11.332	152	3024	N.D.	
86) 4-Nitroaniline	11.363	138	375351	47.764 ug/mL	83
87) 2-Methyl-4,6-dinitroph...	11.403	198	330253	54.109 ug/mL	98
88) Diphenylamine/N-Nitros...	11.483	169	1235573	41.930 ug/mL	98

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga008.D
Acq On : 6 Jul 2013 13:51
Operator : jfi
Sample : 3f21017-msd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 14:16:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.483	169	1235573	20.965 ug/mL	98
90)	DPH (as Azobenzene)	11.533	182	484371	50.903 ug/mL	94
92)	2,4,6-Tribromophenol	11.664	330	235848	52.716 ug/mL	96
94)	Sulfotepp	11.594	97	477	N.D.	
95)	Diallate	11.825	86	768	N.D.	
96)	Phorate	11.825	75	1560	N.D.	
97)	4-Bromophenylphenyl ether	11.955	248	505464	46.177 ug/mL	95
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.734	213	157	N.D.	
100)	Hexachlorobenzene	12.067	284	487239	45.581 ug/mL	99
101)	Dimethoate	12.067	87	933	N.D.	
102)	4-Aminobiphenyl	12.113	169	1448	N.D.	
103)	Pentachlorophenol	12.298	266	338464	53.035 ug/mL	98
104)	Pronamide	12.252	173	216	N.D.	
105)	Pentachloronitrobenzene	12.298	237	12185	2.724 ug/mL#	25
106)	Phenanthrene	12.575	178	2713227	54.869 ug/mL	98
107)	Disulfoton	12.575	88	204579	11.017 ug/mL#	31
108)	Anthracene	12.633	178	2459449	48.682 ug/mL	99
109)	Dinoseb	12.529	211	98	N.D.	
110)	Carbazole	12.818	167	1991211	49.162 ug/mL	97
111)	Methyl Parathion	12.991	109	728	N.D.	
112)	Di-n-butyl phthalate	13.210	149	2975442	54.503 ug/mL	96
113)	Parathion	13.452	109	1785	N.D.	
114)	4-Nitroquinoline-1-oxide	13.487	190	570	N.D.	
115)	Methapyrilene	13.602	97	3781	N.D.	
116)	Isodrin	13.887	193	196899	45.396 ug/mL	90
117)	Fluoranthene	14.078	202	2220051	62.052 ug/mL	95
118)	Benzidine	13.887	184	11526	39.222 ug/mL#	85
119)	Pyrene	14.369	202	2153659	57.706 ug/mL	93
121)	Terphenyl -D14	14.520	244	1456220	55.121 ug/mL	100
122)	Aramite	14.459	185	429	N.D.	
123)	Benzylbutyl phthalate	15.143	149	907518	60.077 ug/mL	93
125)	p-(dimethylamino)azobe...	14.660	225	941	N.D.	
126)	Chlorobenzilate	14.701	251	459	N.D.	
127)	Famphur	15.820	218	224	No Calib #	
128)	3,3'-Dimethylbenzidine	15.143	212	2005	N.D.	
129)	Kepone	19.803	272	257	No Calib #	
130)	2-Acetylaminofluorene	15.677	181	612	N.D.	
131)	3,3'-Dichlorobenzidine	16.030	252	465632	42.892 ug/mL	98
132)	Benzo(a)anthracene	16.107	228	1950566	56.365 ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	16.041	149	1276165	54.589 ug/mL	97
134)	Chrysene	16.184	228	1877900	59.984 ug/mL	97
135)	Di-n-octyl phthalate	17.320	149	2091997	58.314 ug/mL	99
136)	Hexachlorophene	19.065	196	1475	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.413	256	843	N.D.	
139)	Benzo(b)fluoranthene	18.319	252	1447821	54.583 ug/mL	97
140)	Benzo(k)fluoranthene	18.379	252	1342414	60.355 ug/mL	95
141)	Benzo(a)pyrene	18.972	252	1091394	50.763 ug/mL	95
142)	3-Methylcholanthrene	19.565	268	814	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.833	276	616464	31.214 ug/mL	82
144)	Dibenzo(a,h)anthracene	20.842	278	564182	33.076 ug/mL	89
145)	Benzo(g,h,i)perylene	21.280	276	425913	28.888 ug/mL	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga008.D
Acq On : 6 Jul 2013 13:51
Operator : jfi
Sample : 3f21017-msd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 14:16:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

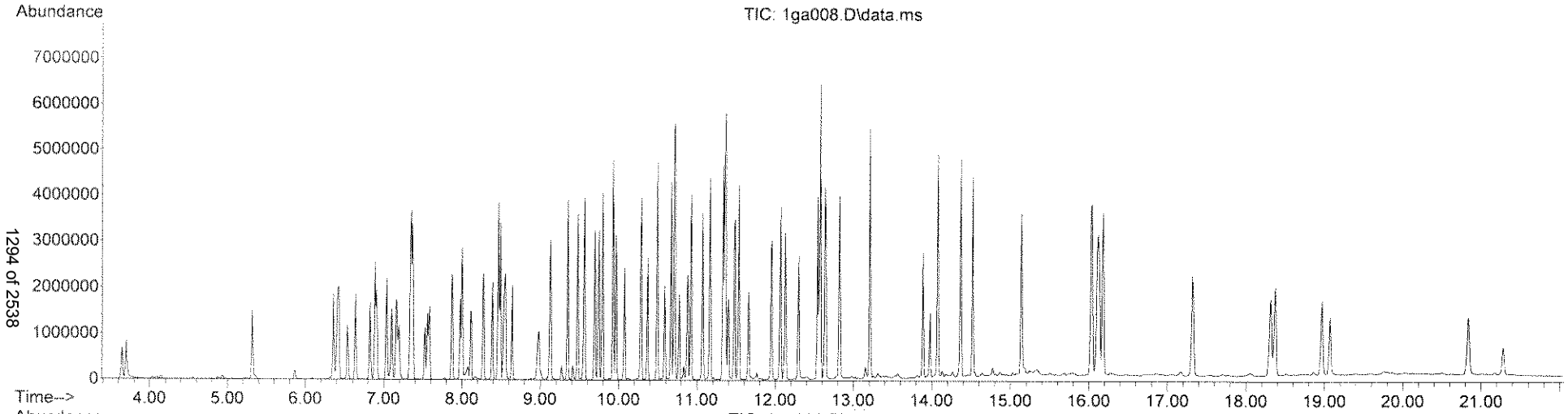
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

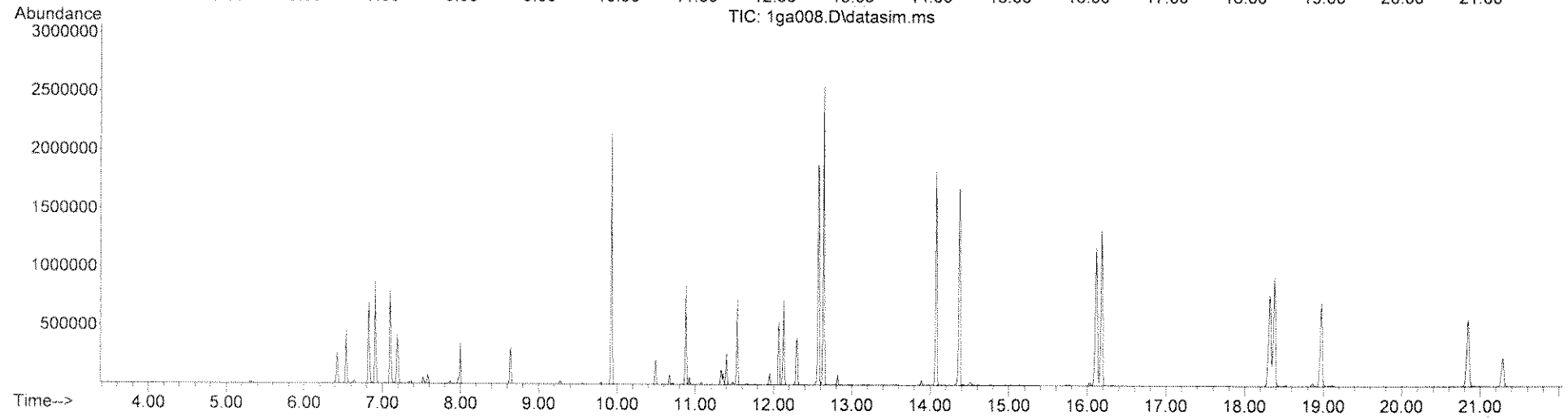
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga008.D
Acq On : 6 Jul 2013 13:51
Operator : jfi
Sample : 3f21017-msd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 14:16:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga008.D
Acq On : 6 Jul 2013 13:51
Operator : jfi
Sample : 3f21017-msd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 22:46:41 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

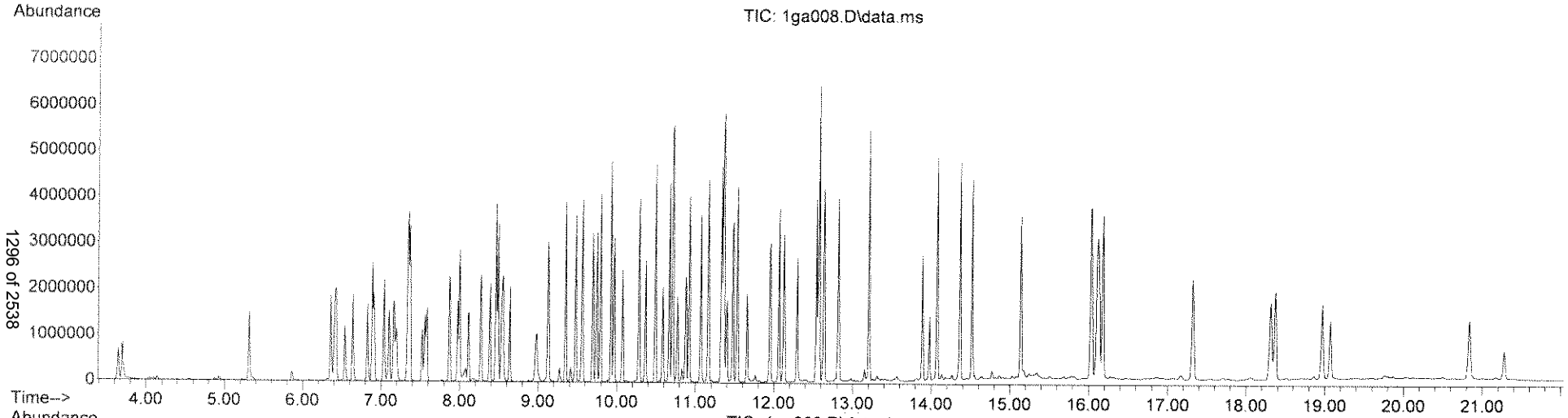
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	439429	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	1869113	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.669	164	1043521	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.540	188	1721983	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.129	240	1221763	40.00	ug/mL	0.00
10) PERYLENE-d12	19.074	264	744715	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.356	106	405923	32.672	ug/mL	96
4) Caprolactam	8.983	113	281500	69.879	ug/mL	98
6) 1,1'-Biphenyl	9.924	154	1662680	40.082	ug/mL	97
7) Atrazine	12.125	200	507045	56.980	ug/mL	97

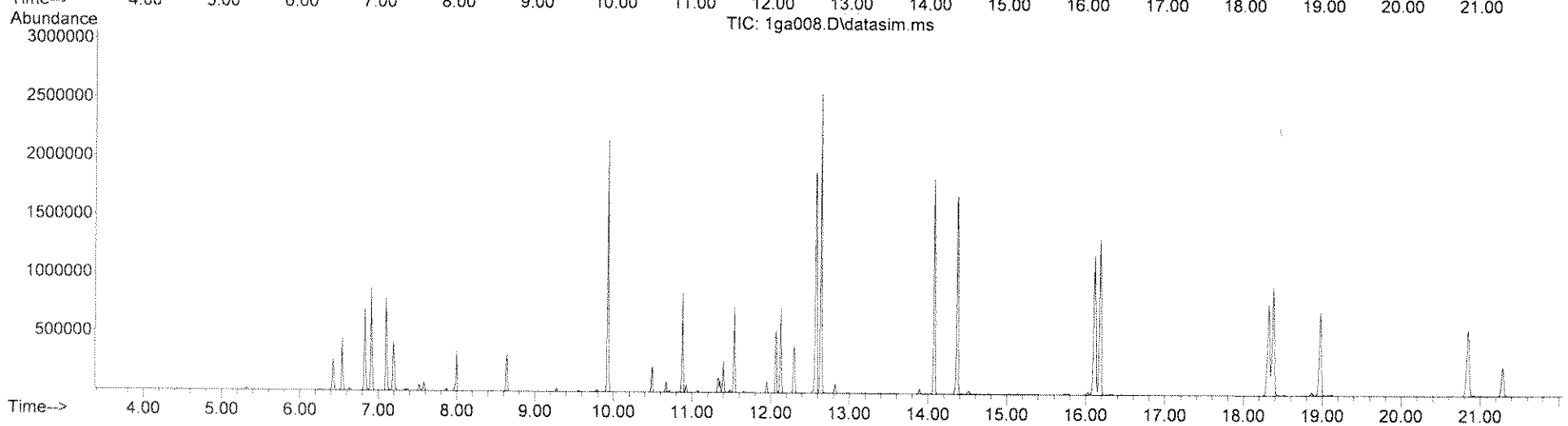
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga008.D
Acq On : 6 Jul 2013 13:51
Operator : jfi
Sample : 3f21017-msd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 22:46:41 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 06 21:24:13 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	448871	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	1899992	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.669	164	1098019	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.540	188	1909470	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.118	240	1248520	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.065	264	542999	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.307	112	614665	34.74	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 34.74%			
11) Phenol -D5 (acid surr)	6.396	99	859595	39.47	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 39.47%			
33) Nitrobenzene -D5 (b/n ...	7.556	82	723569	32.55	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 32.55%			
61) 2-Fluorobiphenyl (b/n ...	9.793	172	1402370	34.22	ug/mL	0.00
Spiked Amount 100.000			Recovery = 34.22%			
91) 2,4,6-Tribromophenol (...	11.654	330	248216	52.73	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 52.73%			
120) Terphenyl -D14 (b/n surr)	14.520	244	1945190	66.40	ug/mL	0.00
Spiked Amount 100.000			Recovery = 66.40%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.667	74	109	N.D.		
3) Pyridine	3.677	79	129	N.D.		
4) 2-Picoline	4.557	93	282	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	5.087	80	84	N.D.		
8) 2-Fluorophenol	5.307	112	614665	34.738	ug/mL	94
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	6.076	79	143	N.D.		
12) Phenol -D5	6.396	99	859595	39.473	ug/mL	87
13) Pentachloroethane	6.546	167	4536	N.D.		
14) aniline	6.536	93	112	N.D.		
15) Phenol	0.000		0	N.D.		
16) Bis(2-chloroethyl)ether	6.536	93	112	N.D.		
17) 2-Chlorophenol	6.626	128	789	N.D.		
18) 1,3-Dichlorobenzene	6.826	146	625	N.D.		
19) 1,4-Dichlorobenzene	6.826	146	625	N.D.		
20) Benzyl Alcohol	7.016	108	95	N.D.		
21) 1,2-Dichlorobenzene	7.096	146	366	N.D.		
22) 2-Methylphenol	7.036	107	424	N.D.		
23) Bis(2-chloroisopropyl)...	7.326	45	93	N.D.		
24) Acetophenone	7.426	105	76	N.D.		
25) 3 & 4-Methylphenol	0.000		0	N.D.		
26) N-Nitrosodi-n-propylamine	7.386	70	455	N.D.		
27) N-Nitrosopyrrolidine	7.186	100	75	N.D.		
28) N-Nitrosomorpholine	7.296	56	226	N.D.		
29) Hexachloroethane	7.526	117	131	N.D.		
30) o-Toluidine	7.476	106	305	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.556	82	723569	32.547	ug/mL	90

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 06 21:24:13 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.556	77	3240	N.D.	
36) N-Nitrosopiperidine	7.836	114	302	N.D.	
37) Isophorone	7.886	82	85	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	0.000		0	N.D.	
40) Bis(2-chloroethoxy)met...	8.210	93	85	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.387	180	498	N.D.	
45) Naphthalene	8.480	128	446	N.D.	
46) 4-Chloroaniline	8.527	127	82	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.974	84	213	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	9.244	107	73	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.346	142	72	N.D.	
55) 1-Methylnaphthalene	9.346	142	72	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.533	216	524	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.793	172	1402370	34.225 ug/mL	99
63) Isosafrole	9.961	162	94	N.D.	
64) 2-Chloronaphthalene	9.961	162	94	N.D.	
65) 2-Nitroaniline	10.073	65	88	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	0.000		0	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	0.000		0	N.D.	
71) 3-Nitroaniline	10.566	138	97	N.D.	
72) Acenaphthene	10.669	154	3572	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.762	109	101	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.144	149	778	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	11.247	107	71	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 06 21:24:13 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	11.644	182	103	N.D.	
92)	2,4,6-Tribromophenol	11.654	330	248216	52.727 ug/mL	95
94)	Sulfotepp	11.624	97	368	N.D.	
95)	Diallate	11.855	86	107	N.D.	
96)	Phorate	11.865	75	80	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.113	87	119	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	12.148	266	94	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.540	178	780	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.540	178	780	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	0.000		0	N.D.	
111)	Methyl Parathion	12.956	109	102	N.D.	
112)	Di-n-butyl phthalate	13.198	149	7208	N.D.	
113)	Parathion	13.499	109	124	N.D.	
114)	4-Nitroquinoline-1-oxide	13.360	190	204	N.D.	
115)	Methapyrilene	13.579	97	412	N.D.	
116)	Isodrin	13.887	193	574	N.D.	
117)	Fluoranthene	14.068	202	330	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.359	202	75	N.D.	
121)	Terphenyl -D14	14.520	244	1945190	66.400 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.133	149	4870	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	14.691	251	87	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.133	212	2960	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.118	228	2972	N.D.	
133)	Bis(2-ethylhexyl)phtha...	16.030	149	309050	12.936 ug/mL	98
134)	Chrysene	16.118	228	2972	N.D.	
135)	Di-n-octyl phthalate	17.254	149	2570	N.D.	
136)	Hexachlorophene	19.048	196	342	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.955	252	280	N.D.	
142)	3-Methylcholanthrene	19.531	268	170	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.823	276	410	N.D.	
144)	Dibenzo(a,h)anthracene	20.842	278	378	N.D.	
145)	Benzo(g,h,i)perylene	21.271	276	397	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 06 21:24:13 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

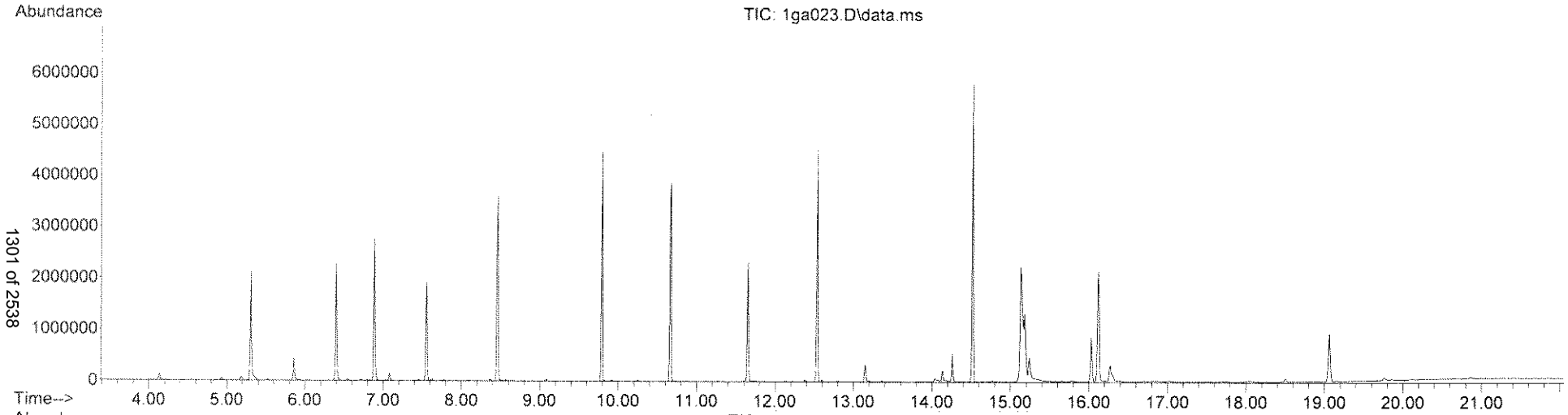
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

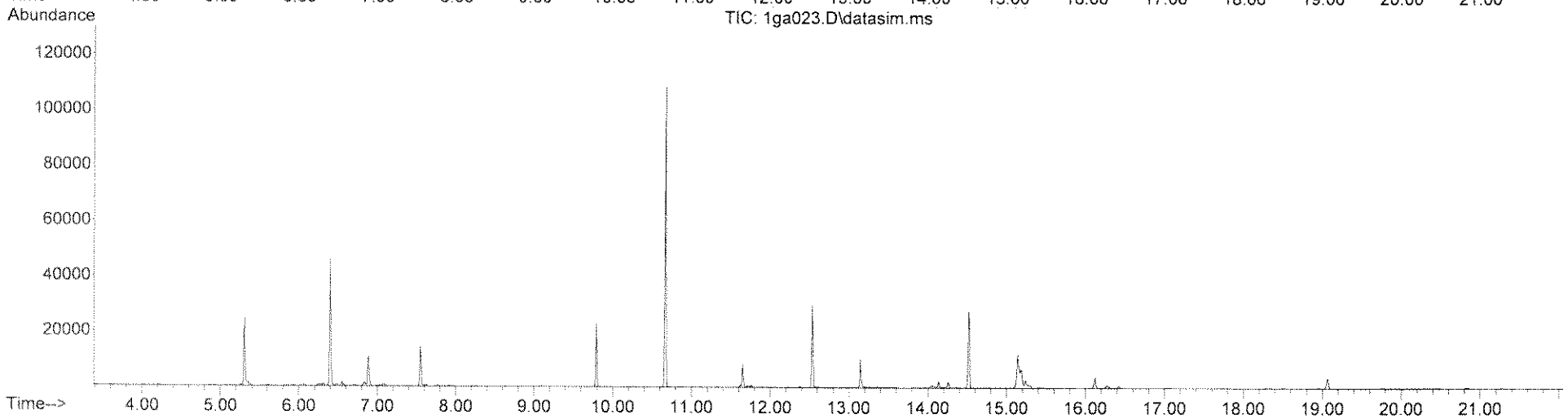
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 06 21:24:13 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 06 22:47:11 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

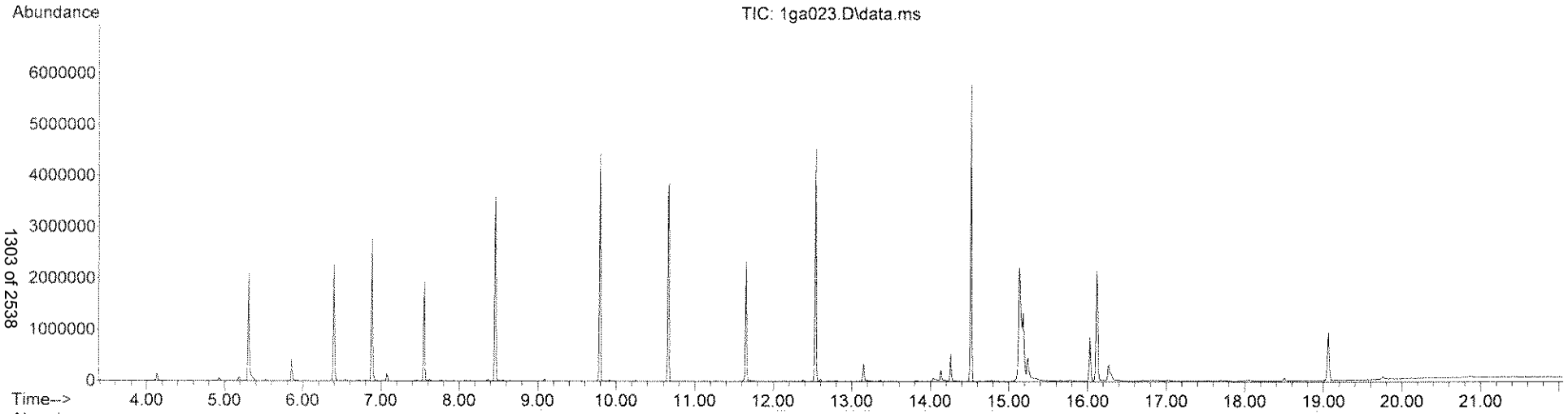
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.886	152	448871	40.00 ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	1899992	40.00 ug/mL	0.00
5) ACENAPHTHENE-d10	10.669	164	1098019	40.00 ug/mL	0.00
8) PHENANTHRENE-d10	12.540	188	1909470	40.00 ug/mL	0.00
9) CHRYSENE-d12	16.118	240	1248520	40.00 ug/mL	-0.01
10) PERYLENE-d12	19.065	264	542999	40.00 ug/mL	0.00
Target Compounds					Qvalue
2) Benzaldehyde	0.000		0	N.D.	
4) Caprolactam	8.909	113	399	N.D.	
6) 1,1'-Biphenyl	9.793	154	2981	N.D.	
7) Atrazine	0.000		0	N.D.	

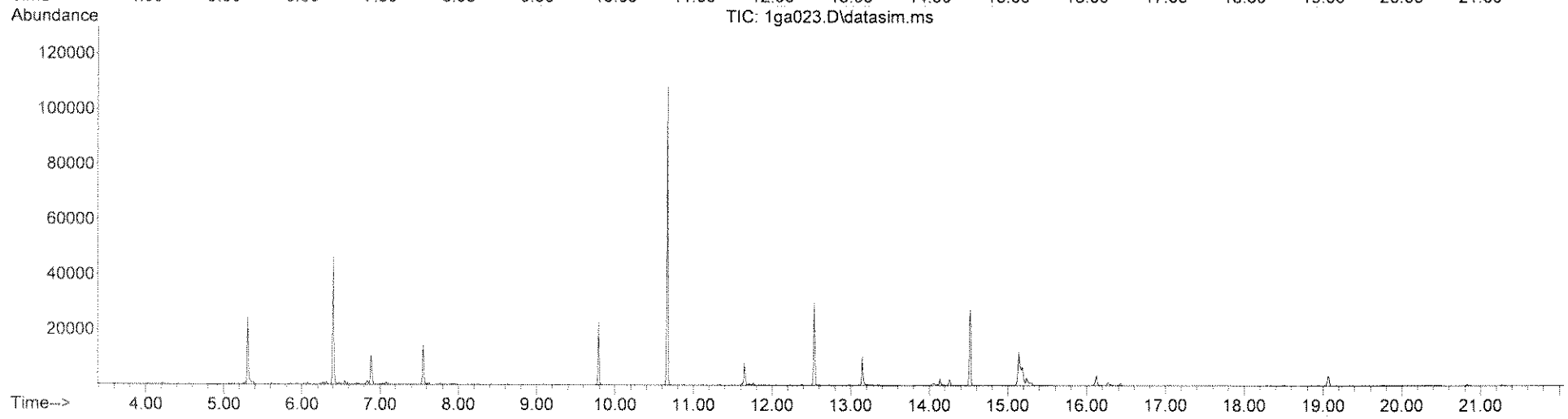
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 06 22:47:11 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1ga023.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.127	72	75	81	rBV	133682	203567	3.57%	0.377%
2	4.927	153	155	159	rVB	56438	66078	1.16%	0.122%
3	5.187	178	181	185	rBV	78718	108668	1.91%	0.201%
4	5.307	190	193	196	rBV	2106226	2293579	40.27%	4.243%
5	5.856	245	248	254	rBV	441168	518852	9.11%	0.960%
6	6.396	299	302	305	rBV	2275871	2552149	44.81%	4.721%
7	6.886	348	351	359	rVB	2768871	2988127	52.46%	5.528%
8	7.076	368	370	377	rVB	147503	181056	3.18%	0.335%
9	7.556	415	418	420	rBV	1933412	2176465	38.21%	4.026%
10	8.462	508	512	514	rBV	3595459	4088308	71.78%	7.563%
11	9.793	652	655	658	rBV	4477797	4320904	75.86%	7.994%
12	10.669	745	749	751	rBV	3872051	4665347	81.91%	8.631%
13	11.654	849	852	854	rVB	2314632	2419800	42.48%	4.477%
14	12.540	931	934	936	rBV	4543069	4803823	84.34%	8.887%
15	13.152	984	987	989	rBV	347661	442741	7.77%	0.819%
16	14.038	1063	1069	1076	rBV4	70957	191918	3.37%	0.355%
17	14.138	1076	1079	1082	rVV	208059	245049	4.30%	0.453%
18	14.259	1088	1091	1094	rBV	532797	523343	9.19%	0.968%
19	14.520	1114	1117	1120	rVB	5806243	5695927	100.00%	10.537%
20	15.133	1171	1178	1182	rBV	2223943	5502795	96.61%	10.180%
21	15.183	1182	1183	1187	rVV	1321980	1675675	29.42%	3.100%
22	15.243	1187	1189	1211	rVB	455035	1173140	20.60%	2.170%
23	15.776	1234	1238	1245	rVB4	22307	62258	1.09%	0.115%
24	16.030	1258	1261	1265	rBV	860332	1169314	20.53%	2.163%
25	16.118	1265	1269	1272	rBV	2150492	3356119	58.92%	6.209%
26	16.272	1279	1283	1290	rBV	304950	741581	13.02%	1.372%
27	18.048	1437	1445	1456	rVB5	23353	105738	1.86%	0.196%
28	18.506	1494	1499	1504	rBV	59481	115767	2.03%	0.214%
29	19.065	1559	1565	1572	rBV	927770	1538598	27.01%	2.846%
30	19.760	1643	1647	1654	rBV3	50838	128344	2.25%	0.237%

Sum of corrected areas: 54055030

Signal : TIC: 1ga023.D\datasim.ms

peak	R.T.	first	max	last	PK	peak	corr.	corr.	% of

LSC Area Percent Report

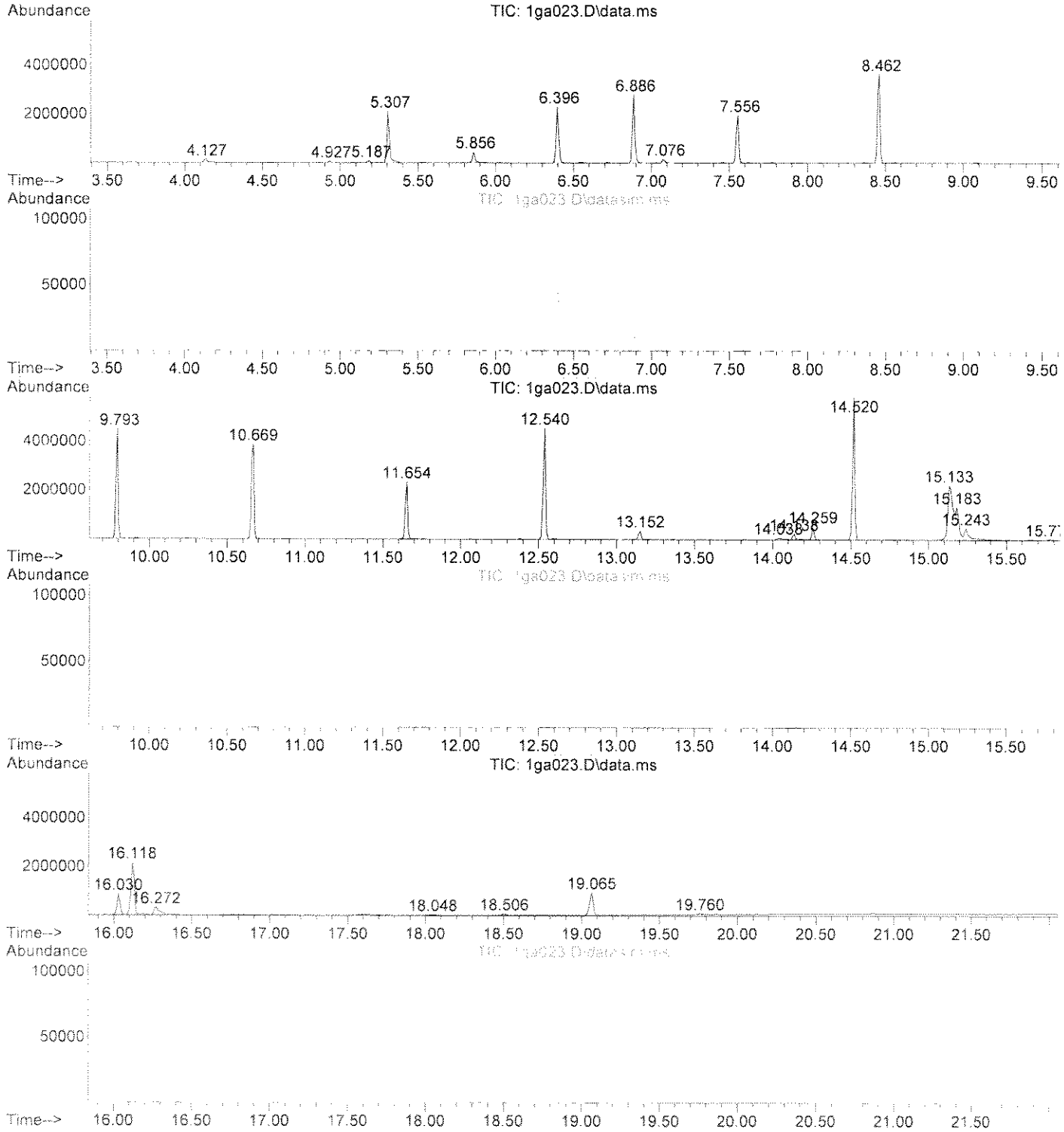
```
Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On    :  6 Jul 2013  20:57
Operator  : jfi
Sample    : a303499-06
Misc      :
ALS Vial  : 23   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF                          Filtering: 5
Sampling  : 1                             Min Area: 1 % of largest Peak
Start Thrs: 0.2                          Max Peaks: 100
Stop Thrs : 0                        Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\TICS.M
Title     : TIC SEARCH

 #   min   scan scan scan  TY  height     area    % max.   total
---  ----- ----- ---- ---- --- -------   -------  ------  -------

   No peaks were detected using the above RTE integration parameters!
```

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.856	6.95	518852	1,4-DICHLOROBENZENE-D4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	98
2	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	91
4	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	91
5	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	90

****
Peak Number 2 Hexadecanamide Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.259	4.36	523343	PHENANTHRENE-D10	12.541

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	97
2	Tetradecanamide	227	C14H29NO	000638-58-4	86
3	Tetradecanamide	227	C14H29NO	000638-58-4	86
4	Dodecanamide	199	C12H25NO	001120-16-7	72
5	Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	72

****
Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.133	65.59	5502800	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	98
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	90
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	68
4	7-Nonenamide	155	C9H17NO	090949-53-4	56
5	Dodecanamide	199	C12H25NO	001120-16-7	53

****
Peak Number 4 9-Octadecenamide, (Z)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.183	19.97	1675680	CHRYSENE-D12	16.118

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	83
2	7-Nonenamide	155	C9H17NO	090949-53-4	72
3	Hexadecanamide	255	C16H33NO	000629-54-9	64
4	Dodecanamide	199	C12H25NO	001120-16-7	64
5	Nonanamide	157	C9H19NO	001120-07-6	64

****
Peak Number 5 Octadecanamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.243	13.98	1173140	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanamide	283	C18H37NO	000124-26-5	87
2	Hexadecanamide	255	C16H33NO	000629-54-9	86
3	Tetradecanamide	227	C14H29NO	000638-58-4	80
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	78
5	Dodecanamide	199	C12H25NO	001120-16-7	72

****
Peak Number 6 Bis(2-ethylhexyl) phthalate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.030	13.94	1169310	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bis(2-ethylhexyl) phthalate	390	C24H38O4	000117-81-7	91
2	Bis(2-ethylhexyl) phthalate	390	C24H38O4	000117-81-7	91
3	Bis(2-ethylhexyl) phthalate	390	C24H38O4	000117-81-7	90
4	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	76
5	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	60

****
Peak Number 7 9-Octadecenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.273	8.84	741581	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	87
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	78
3	7-Nonenamide	155	C9H17NO	090949-53-4	72

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

4	Naphthalene, 2-[(N-dimethyl)amin...	213	C14H15NO	1000128-37-5 38
5	Butanamide, 3-methyl-	101	C5H11NO	000541-46-8 30

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga023.D
Acq On : 6 Jul 2013 20:57
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethane, 1,1,2,2...	5.856	6.9		518852	1	6.886	2988130	40.0
Hexadecanamide	14.259	4.4		523343	4	12.541	4803820	40.0
9-Octadecenamid...	15.133	65.6		5502800	5	16.118	3356120	40.0
9-Octadecenamid...	15.183	20.0		1675680	5	16.118	3356120	40.0
Octadecanamide	15.243	14.0		1173140	5	16.118	3356120	40.0
Bis(2-ethylhexy...	16.030	13.9		1169310	5	16.118	3356120	40.0
9-Octadecenamid...	16.273	8.8		741581	5	16.118	3356120	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 06 22:34:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.886	152	443799	40.00 ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	1868216	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.659	164	1085005	40.00 ug/mL	0.00
93) PHENANTHRENE-d10	12.541	188	1865271	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.118	240	1049721	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.065	264	518857	40.00 ug/mL	-0.02
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.307	112	632406	36.15 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 36.15%		
11) Phenol -D5 (acid surr)	6.396	99	895134	41.57 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 41.57%		
33) Nitrobenzene -D5 (b/n ...	7.556	82	718568	32.87 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 32.87%		
61) 2-Fluorobiphenyl (b/n ...	9.793	172	885444	21.87 ug/mL	0.00
Spiked Amount 100.000			Recovery = 21.87%		
91) 2,4,6-Tribromophenol (...	11.654	330	166911	35.88 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 35.88%		
120) Terphenyl -D14 (b/n surr)	14.520	244	1313472	45.90 ug/mL	0.00
Spiked Amount 100.000			Recovery = 45.90%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.637	74	2441	N.D.	
3) Pyridine	3.727	79	1986	N.D.	
4) 2-Picoline	4.537	93	897	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.177	80	2167	N.D.	
8) 2-Fluorophenol	5.307	112	632406	36.149 ug/mL	91
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.947	79	96	N.D.	
12) Phenol -D5	6.396	99	895134	41.574 ug/mL	86
13) Pentachloroethane	6.546	167	6935	N.D.	
14) aniline	6.536	93	2365	N.D.	
15) Phenol	6.546	94	1069	N.D.	
16) Bis(2-chloroethyl)ether	6.536	93	2365	N.D.	
17) 2-Chlorophenol	6.626	128	2916	N.D.	
18) 1,3-Dichlorobenzene	6.816	146	2566	N.D.	
19) 1,4-Dichlorobenzene	6.816	146	2566	N.D.	
20) Benzyl Alcohol	7.036	108	1299	N.D.	
21) 1,2-Dichlorobenzene	7.096	146	2311	N.D.	
22) 2-Methylphenol	7.146	107	1552	N.D.	
23) Bis(2-chloroisopropyl)...	7.186	45	2556	N.D.	
24) Acetophenone	7.356	105	3205	N.D.	
25) 3 & 4-Methylphenol	7.376	108	84	N.D.	
26) N-Nitrosodi-n-propylamine	7.346	70	2873	N.D.	
27) N-Nitrosopyrrolidine	7.316	100	1529	N.D.	
28) N-Nitrosomorpholine	7.396	56	77	N.D.	
29) Hexachloroethane	7.516	117	1000	N.D.	
30) o-Toluidine	7.356	106	375	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.556	82	718568	32.872 ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 06 22:34:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35)	Nitrobenzene	7.546	77	5314	N.D.	
36)	N-Nitrosopiperidine	7.716	114	81	N.D.	
37)	Isophorone	7.856	82	3855	N.D.	
38)	2-Nitrophenol	7.966	139	749	N.D.	
39)	2,4-Dimethylphenol	8.015	122	348	N.D.	
40)	Bis(2-chloroethoxy)met...	8.108	93	1798	N.D.	
41)	o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42)	Benzoic Acid	0.000		0	N.D.	
43)	2,4-Dichlorophenol	8.266	162	720	N.D.	
44)	1,2,4-Trichlorobenzene	8.378	180	2547	N.D.	
45)	Naphthalene	8.481	128	5474	N.D.	
46)	4-Chloroaniline	8.574	127	97	N.D.	
47)	2,6-Dichlorophenol	8.546	162	970	N.D.	
48)	Hexachloropropene	0.000		0	N.D.	
49)	Hexachlorobutadiene	8.639	223	544	N.D.	
50)	N-Nitrosodi-n-Butylamine	8.834	84	276	N.D.	
51)	p-Phenylenediamine	9.058	108	73	N.D.	
52)	4-Chloro-3-methylphenol	9.114	107	638	N.D.	
53)	Safrole	0.000		0	N.D.	
54)	2-Methylnaphthalene	9.337	142	2380	N.D.	
55)	1-Methylnaphthalene	9.477	142	2431	N.D.	
56)	Hexachlorocyclopentadiene	9.561	237	217	N.D.	
58)	1,2,4,5-Tetrachloroben...	9.561	216	1701	N.D.	
59)	2,4,6-Trichlorophenol	9.691	196	366	N.D.	
60)	2,4,5-Trichlorophenol	9.737	196	148	N.D.	
62)	2-Fluorobiphenyl	9.793	172	885444	21.868 ug/mL	100
63)	Isosafrole	9.961	162	1502	N.D.	
64)	2-Chloronaphthalene	9.961	162	1502	N.D.	
65)	2-Nitroaniline	10.054	65	245	N.D.	
66)	1,4-Naphthoquinone	0.000		0	N.D.	
67)	Dimethyl phthalate	10.268	163	843	N.D.	
68)	m-Dinitrobenzene	0.000		0	N.D.	
69)	2,6-Dinitrotoluene	10.352	165	82	N.D.	
70)	Acenaphthylene	10.482	152	1679	N.D.	
71)	3-Nitroaniline	10.669	138	297	N.D.	
72)	Acenaphthene	10.706	154	1029	N.D.	
73)	2,4-Dinitrophenol	0.000		0	N.D.	
74)	Pentachlorobenzene	10.874	250	91	N.D.	
75)	4-Nitrophenol	10.753	109	72	N.D.	
76)	Dibenzofuran	10.921	168	1342	N.D.	
77)	2,4-Dinitrotoluene	10.865	165	88	N.D.	
78)	2-Naphthylamine	10.846	143	96	N.D.	
79)	1-Naphthylamine	0.000		0	N.D.	
80)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81)	Diethyl phthalate	11.154	149	1202	N.D.	
82)	4-Chlorophenyl phenyl ...	11.322	204	270	N.D.	
83)	Fluorene	11.353	166	774	N.D.	
84)	Thionazin	11.353	107	119	N.D.	
85)	5-Nitro-o-toluidine	0.000		0	N.D.	
86)	4-Nitroaniline	11.473	138	84	N.D.	
87)	2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88)	Diphenylamine/N-Nitros...	11.533	169	144	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 06 22:34:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.533	169	144	N.D.	
90)	DPH (as Azobenzene)	11.533	182	958	N.D.	
92)	2,4,6-Tribromophenol	11.654	330	166911	35.881 ug/mL	100
94)	Sulfotepp	11.654	97	174	N.D.	
95)	Diallate	11.855	86	77	N.D.	
96)	Phorate	11.774	75	205	N.D.	
97)	4-Bromophenylphenyl ether	11.945	248	200	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.171	87	91	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	12.240	266	150	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.541	178	728	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.633	178	168	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.818	167	386	N.D.	
111)	Methyl Parathion	12.933	109	844	N.D.	
112)	Di-n-butyl phthalate	13.199	149	5126	N.D.	
113)	Parathion	13.464	109	426	N.D.	
114)	4-Nitroquinoline-1-oxide	13.464	190	121	N.D.	
115)	Methapyrilene	13.591	97	252	N.D.	
116)	Isodrin	13.857	193	92	N.D.	
117)	Fluoranthene	14.068	202	685	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.359	202	793	N.D.	
121)	Terphenyl -D14	14.520	244	1313472	45.899 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.133	149	948	N.D.	
125)	p-(dimethylamino)azobe...	14.520	225	6980	N.D.	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.072	212	79	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.578	181	130	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.118	228	3237	N.D.	
133)	Bis(2-ethylhexyl)phtha...	16.030	149	4457	N.D.	
134)	Chrysene	16.118	228	3237	N.D.	
135)	Di-n-octyl phthalate	17.309	149	496	N.D.	
136)	Hexachlorophene	19.065	196	280	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.955	252	349	N.D.	
142)	3-Methylcholanthrene	19.565	268	98	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.823	276	501	N.D.	
144)	Dibenzo(a,h)anthracene	20.833	278	541	N.D.	
145)	Benzo(g,h,i)perylene	21.271	276	594	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 06 22:34:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

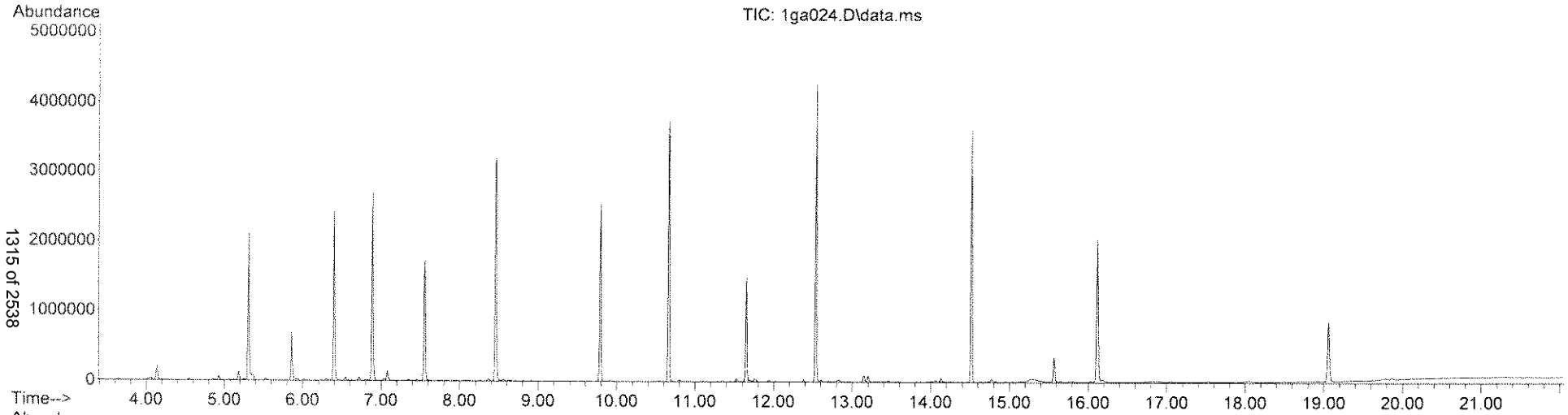
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

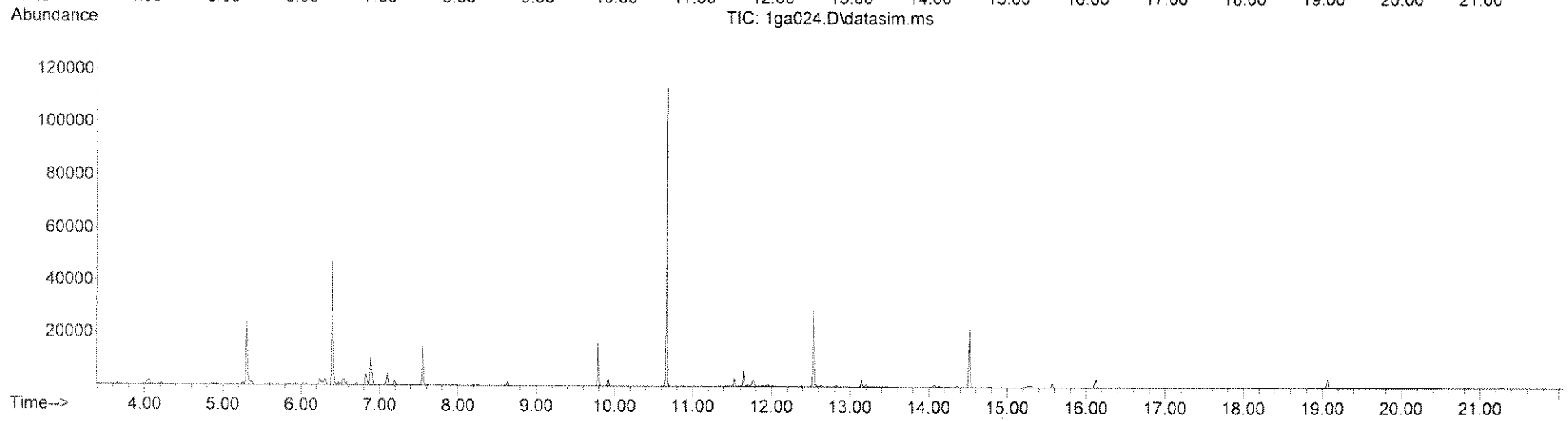
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 06 22:34:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 06 22:47:13 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

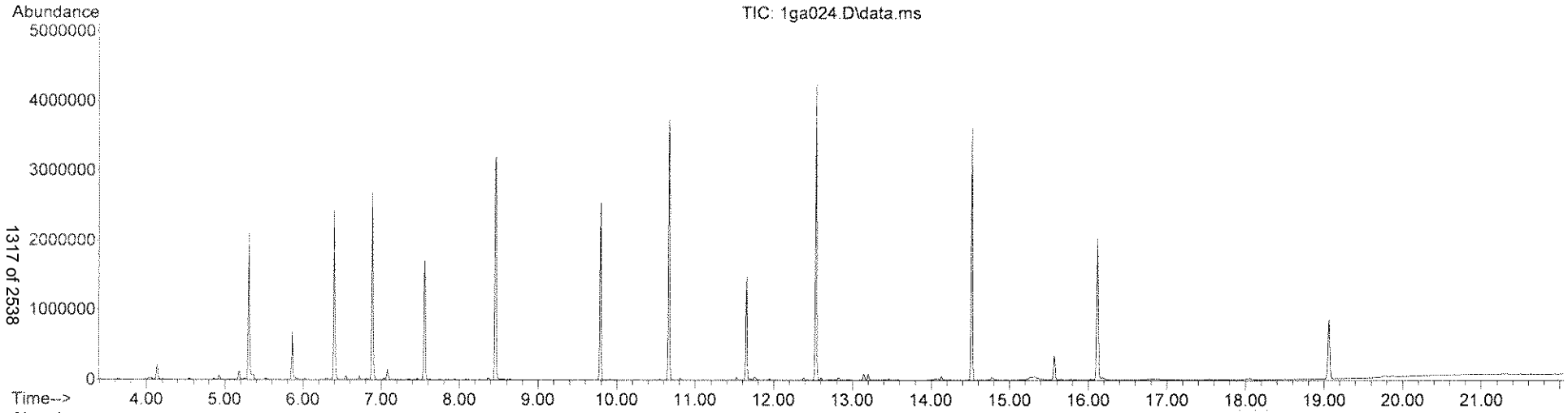
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.886	152	443799	40.00 ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	1868216	40.00 ug/mL	0.00
5) ACENAPHTHENE-d10	10.659	164	1085005	40.00 ug/mL	0.00
8) PHENANTHRENE-d10	12.541	188	1865271	40.00 ug/mL	0.00
9) CHRYSENE-d12	16.118	240	1049721	40.00 ug/mL	-0.01
10) PERYLENE-d12	19.065	264	518857	40.00 ug/mL	0.00
Target Compounds					Qvalue
2) Benzaldehyde	6.356	106	2100	N.D.	
4) Caprolactam	8.909	113	535	N.D.	
6) 1,1'-Biphenyl	9.914	154	2153	N.D.	
7) Atrazine	0.000		0	N.D.	

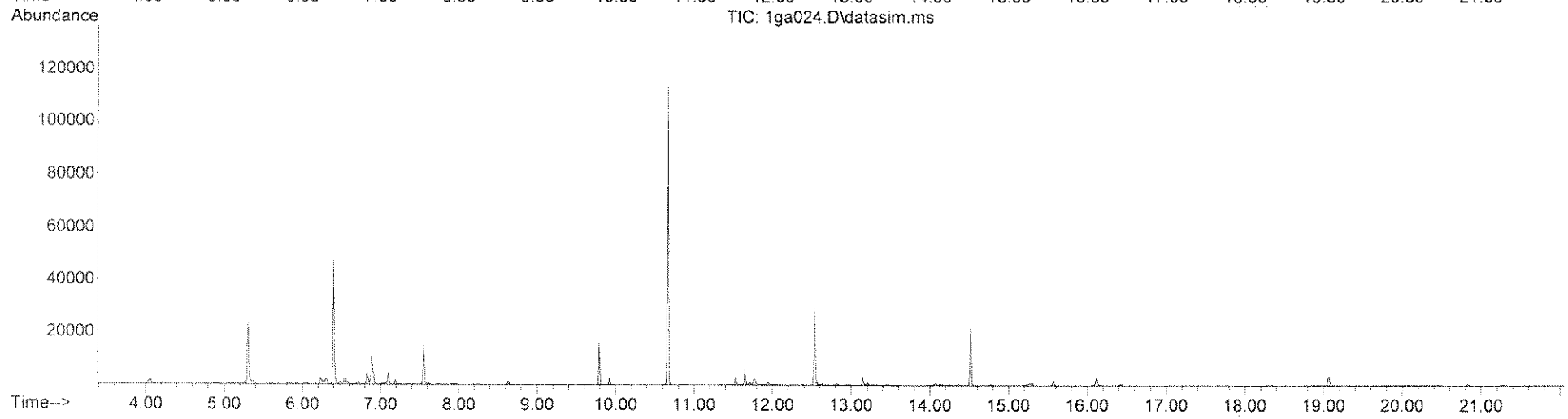
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 06 22:47:13 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1ga024.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.137	73	76	79	rBV	204403	286953	6.05%	0.734%
2	4.927	151	155	159	rBV	66864	81221	1.71%	0.208%
3	5.187	177	181	184	rBV	123040	176272	3.72%	0.451%
4	5.307	190	193	196	rBV	2109523	2283991	48.18%	5.843%
5	5.527	211	215	219	rBV3	29738	49023	1.03%	0.125%
6	5.857	245	248	251	rBV	695002	758059	15.99%	1.939%
7	6.396	299	302	308	rBV	2430115	2637070	55.63%	6.747%
8	6.546	314	317	319	rBV2	54325	62533	1.32%	0.160%
9	6.716	329	334	337	rBV2	55849	74671	1.58%	0.191%
10	6.886	348	351	358	rVB	2697413	2920255	61.60%	7.471%
11	7.076	368	370	375	rVB	150555	186924	3.94%	0.478%
12	7.556	415	418	420	rBV	1727038	2139724	45.14%	5.474%
13	8.369	499	502	505	rVB2	32943	48199	1.02%	0.123%
14	8.462	508	512	514	rBV	3207489	4017610	84.75%	10.279%
15	9.793	652	655	657	rBV	2531399	2726318	57.51%	6.975%
16	10.659	745	748	751	rBV	3742574	4595130	96.93%	11.756%
17	11.523	837	839	842	rBV	37193	49395	1.04%	0.126%
18	11.654	849	852	854	rBV	1487294	1698417	35.83%	4.345%
19	11.754	859	862	869	rVB2	45905	98417	2.08%	0.252%
20	12.541	931	934	936	rBV	4264763	4740719	100.00%	12.129%
21	12.598	936	939	943	rVB	33334	54014	1.14%	0.138%
22	12.829	953	959	963	rVB3	37552	75748	1.60%	0.194%
23	13.141	984	986	989	rBV	92752	135243	2.85%	0.346%
24	13.199	989	991	994	rVB	85060	109121	2.30%	0.279%
25	14.068	1063	1072	1076	rBV2	17835	74651	1.57%	0.191%
26	14.128	1076	1078	1086	rVB2	53133	76412	1.61%	0.195%
27	14.520	1114	1117	1119	rBV	3619964	3873158	81.70%	9.909%
28	14.771	1140	1142	1150	rVB4	45208	93439	1.97%	0.239%
29	15.567	1216	1219	1222	rBV	348360	467627	9.86%	1.196%
30	16.118	1265	1269	1272	rBV	2037872	2857920	60.28%	7.312%
31	16.184	1272	1275	1284	rVB3	36535	116330	2.45%	0.298%
32	18.048	1442	1445	1452	rVB4	17775	49798	1.05%	0.127%
33	19.065	1559	1565	1574	rBV	845576	1472337	31.06%	3.767%

Sum of corrected areas: 39086699

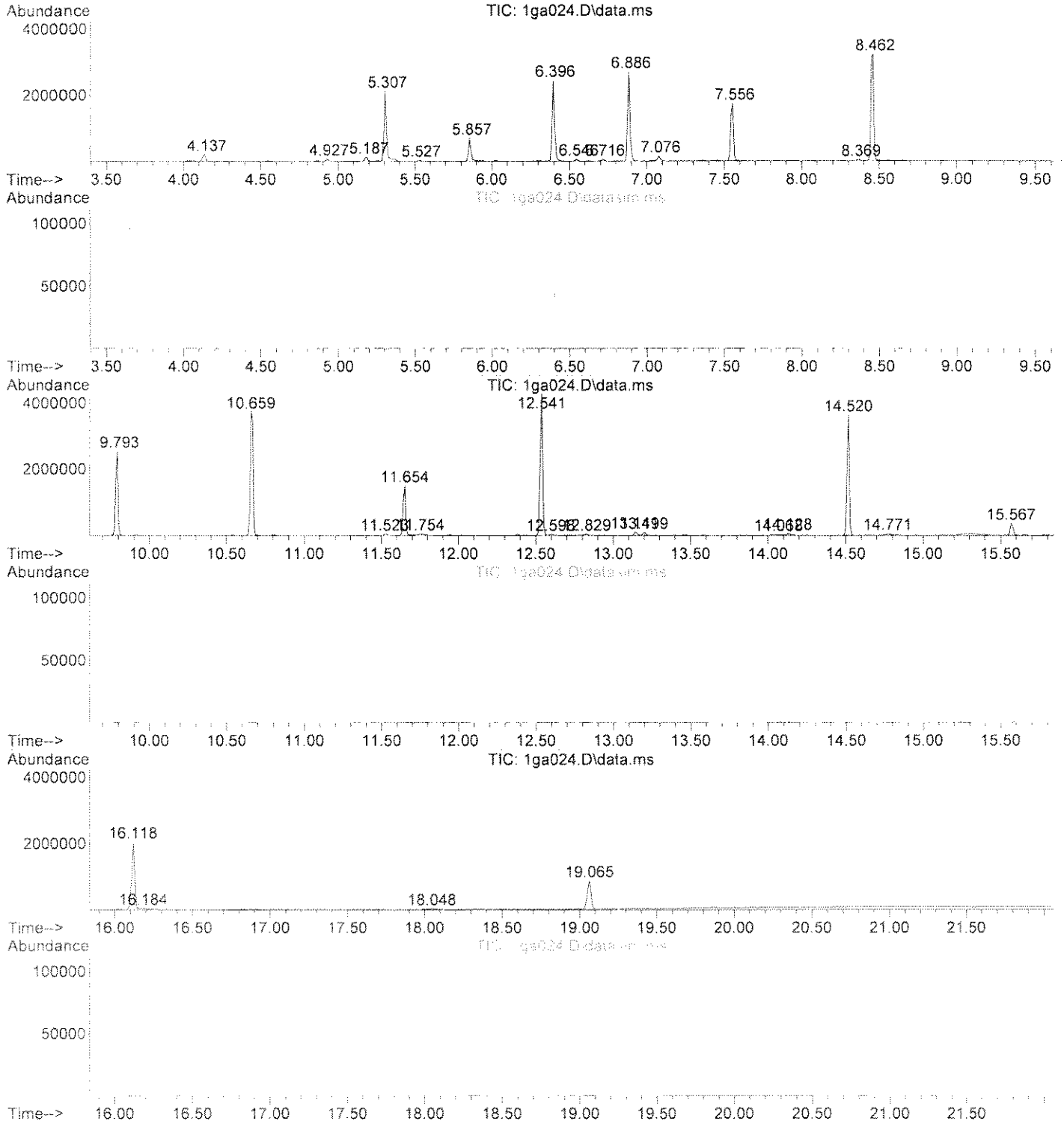
```
Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On    :  6 Jul 2013  21:25
Operator  : jfi
Sample    : a303499-07
Misc      :
ALS Vial  : 24   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                          Filtering: 5
Sampling  : 1                            Min Area: 3 % of largest Peak
Start Thrs: 0.2                         Max Peaks: 100
Stop Thrs : 0                       Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\TICS.M
Title     : TIC SEARCH

Signal     : TIC: 1ga024.D\datasim.ms

peak  R.T. first  max last  PK   peak      corr.   corr.    % of
  #   min   scan scan scan  TY  height     area    % max.   total
---  ----- ----- ---- ---- ---  -------   -------  ------  -------

    No peaks were detected using the above RTE integration parameters!
```

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 1 Cinnamyl cinnamate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.567	6.54	467627	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cinnamyl cinnamate	264	C18H16O2	000122-69-0	87
2	3-p-Tolylprop-2-enal	146	C10H10O	1000202-14-8	56
3	2,2-Dimethyl-1-(2-vinylphenyl)pr...	188	C13H16O	1000210-99-9	50
4	Cinnamoylglycine, methyl ester	219	C12H13NO3	040778-04-9	49
5	1-Penten-3-one, 4-methyl-1-phenyl-	174	C12H14O	003160-32-5	47

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga024.D
Acq On : 6 Jul 2013 21:25
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Cinnamyl cinnamate	15.567	6.5		467627	5	16.118	2857920	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 06 22:34:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.886	152	447520	40.00 ug/mL	0.00
32) NAPHTHALENE-d8	8.462	136	1882590	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.659	164	1056964	40.00 ug/mL	0.00
93) PHENANTHRENE-d10	12.541	188	1762821	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.118	240	987056	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.065	264	420124	40.00 ug/mL	-0.02
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.307	112	530440	30.07 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 30.07%		
11) Phenol -D5 (acid surr)	6.396	99	736992	33.94 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 33.94%		
33) Nitrobenzene -D5 (b/n ...	7.556	82	600043	27.24 ug/mL	0.00
Spiked Amount 100.000			Recovery = 27.24%		
61) 2-Fluorobiphenyl (b/n ...	9.793	172	981726	24.89 ug/mL	0.00
Spiked Amount 100.000			Recovery = 24.89%		
91) 2,4,6-Tribromophenol (...	11.654	330	206602	45.59 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 45.59%		
120) Terphenyl -D14 (b/n surr)	14.520	244	1380349	51.04 ug/mL	0.00
Spiked Amount 100.000			Recovery = 51.04%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.637	74	2792	N.D.	
3) Pyridine	3.727	79	3275	N.D.	
4) 2-Picoline	4.537	93	508	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.027	80	90	N.D.	
8) 2-Fluorophenol	5.307	112	530440	30.068 ug/mL	91
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.987	79	112	N.D.	
12) Phenol -D5	6.396	99	736992	33.945 ug/mL	85
13) Pentachloroethane	6.546	167	4573	N.D.	
14) aniline	6.476	93	77	N.D.	
15) Phenol	6.416	94	4499	N.D.	
16) Bis(2-chloroethyl)ether	6.526	93	2974	N.D.	
17) 2-Chlorophenol	6.626	128	3636	N.D.	
18) 1,3-Dichlorobenzene	6.826	146	3378	N.D.	
19) 1,4-Dichlorobenzene	6.826	146	3378	N.D.	
20) Benzyl Alcohol	7.026	108	2571	N.D.	
21) 1,2-Dichlorobenzene	7.096	146	3056	N.D.	
22) 2-Methylphenol	7.146	107	2033	N.D.	
23) Bis(2-chloroisopropyl)...	7.186	45	3503	N.D.	
24) Acetophenone	7.356	105	4050	N.D.	
25) 3 & 4-Methylphenol	7.326	108	2246	N.D.	
26) N-Nitrosodi-n-propylamine	7.346	70	2488	N.D.	
27) N-Nitrosopyrrolidine	7.316	100	1125	N.D.	
28) N-Nitrosomorpholine	7.326	56	90	N.D.	
29) Hexachloroethane	7.516	117	1071	N.D.	
30) o-Toluidine	7.486	106	78	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.556	82	600043	27.240 ug/mL	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 06 22:34:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.576	77	5778	N.D.	
36) N-Nitrosopiperidine	7.716	114	78	N.D.	
37) Isophorone	7.856	82	5143	N.D.	
38) 2-Nitrophenol	7.966	139	993	N.D.	
39) 2,4-Dimethylphenol	7.996	122	314	N.D.	
40) Bis(2-chloroethoxy)met...	8.099	93	3149	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	8.266	162	1335	N.D.	
44) 1,2,4-Trichlorobenzene	8.378	180	2528	N.D.	
45) Naphthalene	8.481	128	6897	N.D.	
46) 4-Chloroaniline	8.527	127	227	N.D.	
47) 2,6-Dichlorophenol	8.546	162	1120	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	8.630	223	729	N.D.	
50) N-Nitrosodi-n-Butylamine	8.955	84	75	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	9.151	107	173	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.346	142	3401	N.D.	
55) 1-Methylnaphthalene	9.467	142	3367	N.D.	
56) Hexachlorocyclopentadiene	9.551	237	345	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.561	216	2007	N.D.	
59) 2,4,6-Trichlorophenol	9.691	196	493	N.D.	
60) 2,4,5-Trichlorophenol	9.737	196	285	N.D.	
62) 2-Fluorobiphenyl	9.793	172	981726	24.890 ug/mL	100
63) Isosafrole	9.961	162	2213	N.D.	
64) 2-Chloronaphthalene	9.961	162	2213	N.D.	
65) 2-Nitroaniline	10.063	65	266	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.268	163	1137	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	10.361	165	269	N.D.	
70) Acenaphthylene	10.482	152	3135	N.D.	
71) 3-Nitroaniline	10.669	138	279	N.D.	
72) Acenaphthene	10.706	154	1743	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.771	109	94	N.D.	
76) Dibenzofuran	10.911	168	2340	N.D.	
77) 2,4-Dinitrotoluene	10.865	165	233	N.D.	
78) 2-Naphthylamine	10.846	143	101	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.033	232	82	N.D.	
81) Diethyl phthalate	11.154	149	1178	N.D.	
82) 4-Chlorophenyl phenyl ...	11.322	204	652	N.D.	
83) Fluorene	11.353	166	1339	N.D.	
84) Thionazin	11.238	107	87	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.473	169	532	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 06 22:34:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) N-Nitrosodiphenylamine	11.473	169	532	N.D.	
90) DPH (as Azobenzene)	11.523	182	391	N.D.	
92) 2,4,6-Tribromophenol	11.654	330	206602	45.592 ug/mL	96
94) Sulfotepp	11.704	97	375	N.D.	
95) Diallate	11.835	86	187	N.D.	
96) Phorate	11.754	75	107	N.D.	
97) 4-Bromophenylphenyl ether	11.945	248	331	N.D.	
98) Phenacetin	0.000		0	N.D.	
99) 1,3,5-Trinitrobenzene	0.000		0	N.D.	
100) Hexachlorobenzene	12.056	284	166	N.D.	
101) Dimethoate	11.975	87	131	N.D.	
102) 4-Aminobiphenyl	0.000		0	N.D.	
103) Pentachlorophenol	0.000		0	N.D.	
104) Pronamide	0.000		0	N.D.	
105) Pentachloronitrobenzene	0.000		0	N.D.	
106) Phenanthrene	12.564	178	3024	N.D.	
107) Disulfoton	0.000		0	N.D. d	
108) Anthracene	12.621	178	1075	N.D.	
109) Dinoseb	0.000		0	N.D.	
110) Carbazole	12.818	167	348	N.D.	
111) Methyl Parathion	12.898	109	105	N.D.	
112) Di-n-butyl phthalate	13.199	149	6151	N.D.	
113) Parathion	13.453	109	91	N.D.	
114) 4-Nitroquinoline-1-oxide	13.533	190	100	N.D.	
115) Methapyrilene	13.603	97	467	N.D.	
116) Isodrin	13.867	193	277	N.D.	
117) Fluoranthene	14.068	202	1103	N.D.	
118) Benzidine	13.877	184	115	N.D.	
119) Pyrene	14.359	202	1345	N.D.	
121) Terphenyl -D14	14.520	244	1380349	51.039 ug/mL	99
122) Aramite	14.429	185	198	N.D.	
123) Benzylbutyl phthalate	15.153	149	518	N.D.	
125) p-(dimethylamino)azobe...	0.000		0	N.D. d	
126) Chlorobenzilate	14.741	251	81	N.D.	
127) Famphur	0.000		0	N.D.	
128) 3,3'-Dimethylbenzidine	0.000		0	N.D.	
129) Kepone	19.743	272	76	No Calib #	
130) 2-Acetylaminofluorene	15.490	181	87	N.D.	
131) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
132) Benzo(a)anthracene	16.118	228	3588	N.D.	
133) Bis(2-ethylhexyl)phtha...	16.030	149	28879	1.529 ug/mL	99
134) Chrysene	16.118	228	3588	N.D.	
135) Di-n-octyl phthalate	17.298	149	547	N.D.	
136) Hexachlorophene	19.065	196	279	No Calib #	
138) 7,12-Dimethylbenz(a)an...	18.260	256	64	N.D.	
139) Benzo(b)fluoranthene	0.000		0	N.D.	
140) Benzo(k)fluoranthene	0.000		0	N.D.	
141) Benzo(a)pyrene	18.955	252	491	N.D.	
142) 3-Methylcholanthrene	19.608	268	142	N.D.	
143) Indeno(1,2,3-cd)pyrene	20.814	276	429	N.D.	
144) Dibenzo(a,h)anthracene	20.833	278	392	N.D.	
145) Benzo(g,h,i)perylene	21.271	276	513	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 06 22:34:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration

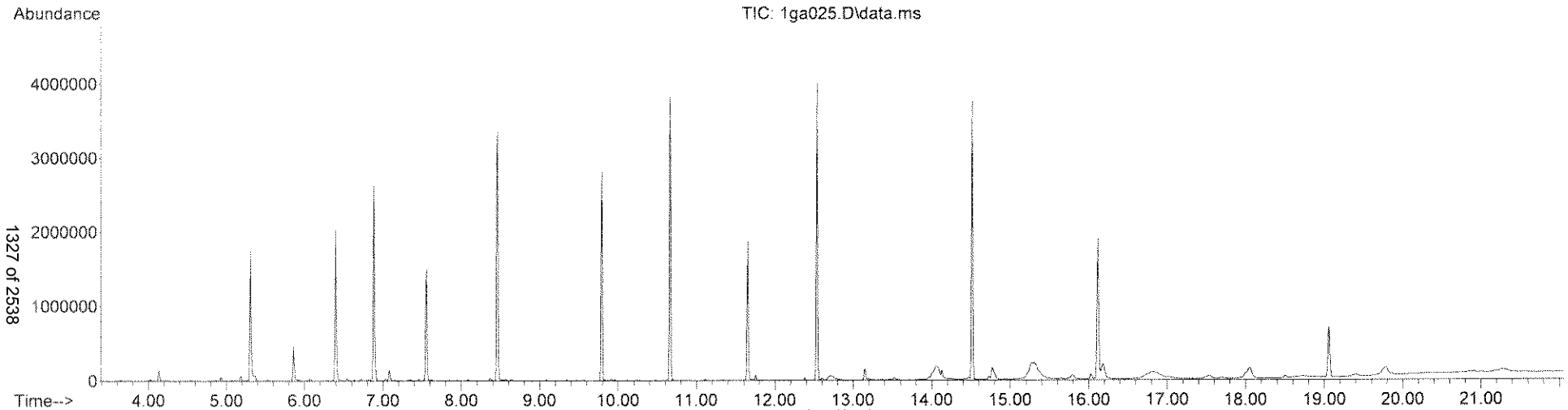
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

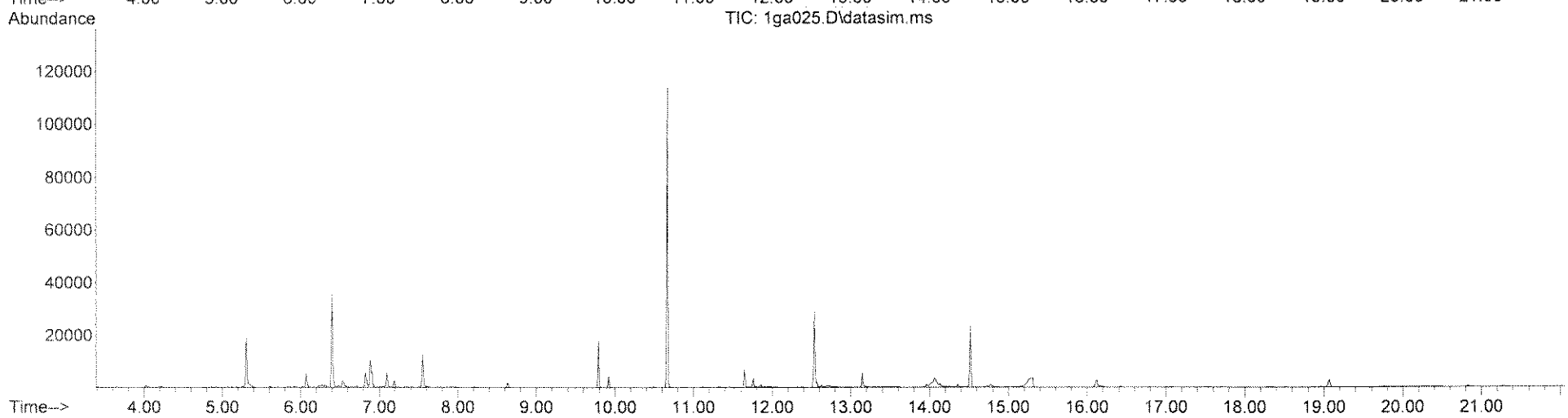
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 06 22:34:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSat Jul 06 11:24:22 2013
QLast Update : Sat Jul 06 11:24:22 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 06 22:47:15 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

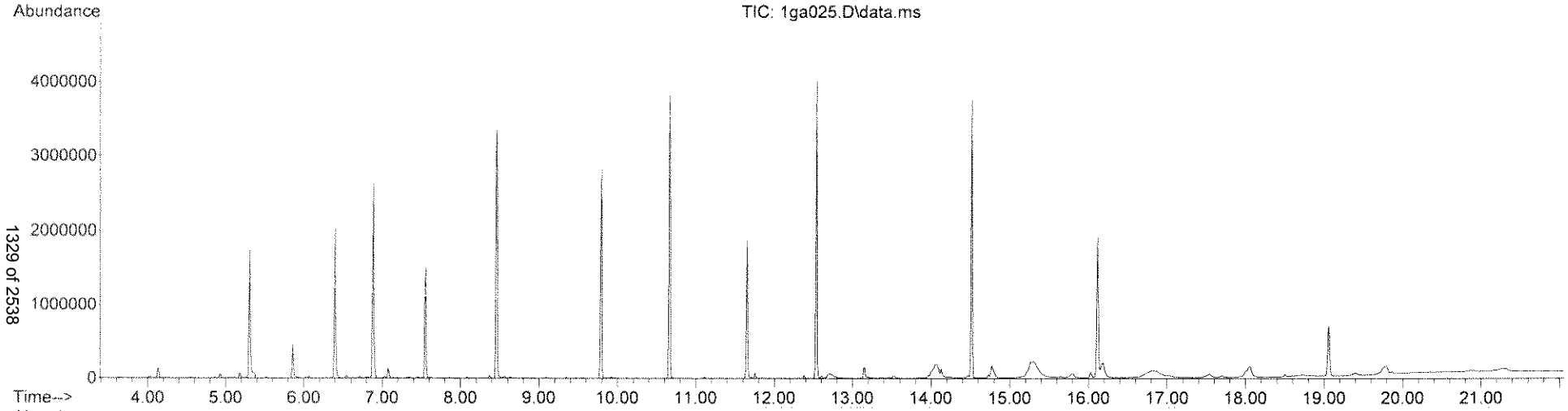
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	447520	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.462	136	1882590	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.659	164	1056964	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.541	188	1762821	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.118	240	987056	40.00	ug/mL	-0.01
10) PERYLENE-d12	19.065	264	420124	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.356	106	2372	N.D.		
4) Caprolactam	8.918	113	465	N.D.		
6) 1,1'-Biphenyl	9.914	154	3451	N.D.		
7) Atrazine	12.113	200	152	N.D.		

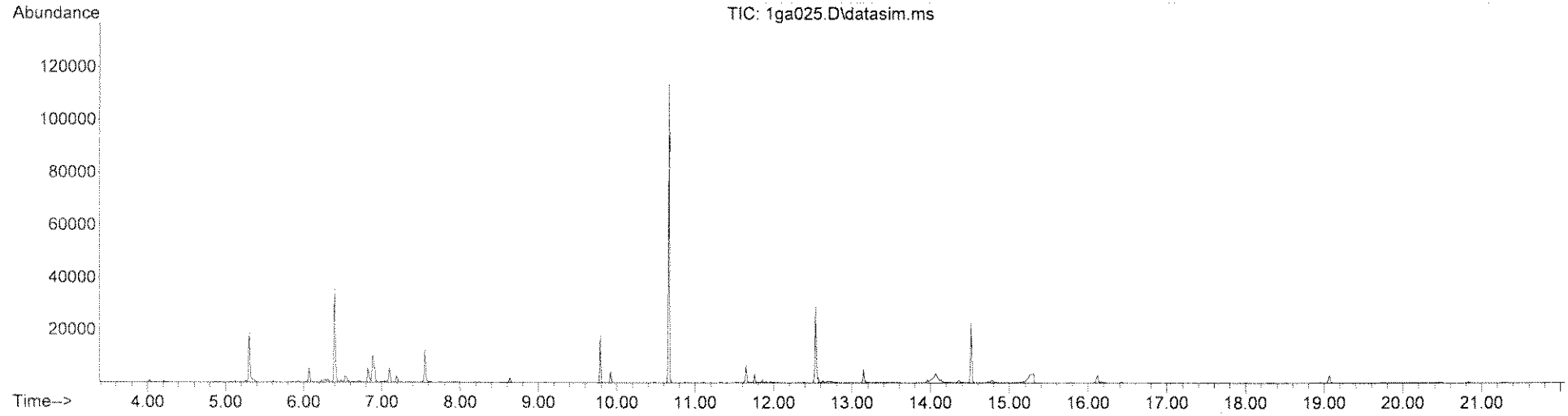
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 06 22:47:15 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1ga025.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.127	72	75	81	rBV	135758	206398	4.62%	0.488%
2	4.927	152	155	158	rBV	55041	62234	1.39%	0.147%
3	5.187	177	181	186	rBV	65112	103858	2.33%	0.246%
4	5.307	190	193	196	rBV	1746506	1932016	43.27%	4.570%
5	5.857	245	248	251	rBV	459009	516396	11.57%	1.221%
6	6.396	299	302	309	rBV	2021932	2153039	48.22%	5.093%
7	6.546	314	317	322	rVB2	35735	52188	1.17%	0.123%
8	6.796	340	342	348	rBV4	17046	45123	1.01%	0.107%
9	6.886	348	351	358	rVB	2627398	2906641	65.10%	6.875%
10	7.076	368	370	375	rVB	146569	192399	4.31%	0.455%
11	7.556	415	418	420	rBV	1495271	1802580	40.37%	4.264%
12	8.369	499	502	505	rVB2	32585	48157	1.08%	0.114%
13	8.462	508	512	514	rBV	3359440	4019327	90.02%	9.507%
14	9.793	652	655	657	rBV	2808357	3008705	67.38%	7.117%
15	10.659	745	748	751	rBV	3822173	4465042	100.00%	10.561%
16	11.654	849	852	854	rBV	1857981	2042995	45.76%	4.832%
17	11.754	860	862	865	rVB	70664	70519	1.58%	0.167%
18	12.541	931	934	936	rBV	4002591	4462460	99.94%	10.555%
19	12.714	943	949	963	rBV	59235	304525	6.82%	0.720%
20	13.152	984	987	990	rBV	149269	234953	5.26%	0.556%
21	13.522	1017	1019	1025	rVB	27430	57376	1.29%	0.136%
22	14.068	1056	1072	1077	rBV	184270	1052464	23.57%	2.489%
23	14.128	1077	1078	1085	rVB2	113326	154625	3.46%	0.366%
24	14.470	1109	1112	1114	rBV	29363	51681	1.16%	0.122%
25	14.520	1114	1117	1119	rVB	3756111	4059954	90.93%	9.603%
26	14.731	1135	1138	1139	rBV	42414	51985	1.16%	0.123%
27	14.771	1139	1142	1152	rVB	163899	434430	9.73%	1.028%
28	15.283	1173	1193	1194	rBV	211699	937441	21.00%	2.217%
29	15.788	1232	1239	1251	rVB3	54210	208873	4.68%	0.494%
30	16.030	1258	1261	1265	rBV	77817	114546	2.57%	0.271%
31	16.118	1265	1269	1272	rVV	1887155	2819970	63.16%	6.670%
32	16.184	1272	1275	1288	rVB2	206497	634151	14.20%	1.500%
33	16.802	1316	1331	1332	rBV	87676	438185	9.81%	1.036%
34	17.540	1389	1398	1406	rBV3	43345	178157	3.99%	0.421%
35	18.057	1436	1446	1461	rVB2	146357	713175	15.97%	1.687%

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	18.506	1495	1499	1503	rBV2	33002	60547	1.36%	0.143%
37	19.065	1559	1565	1571	rVB	666857	1180295	26.43%	2.792%
38	19.404	1596	1605	1609	rBV6	32648	122068	2.73%	0.289%
39	19.786	1641	1650	1656	rBV4	90479	377470	8.45%	0.893%

Sum of corrected areas: 42276948

Signal : TIC: 1ga025.D\datasim.ms

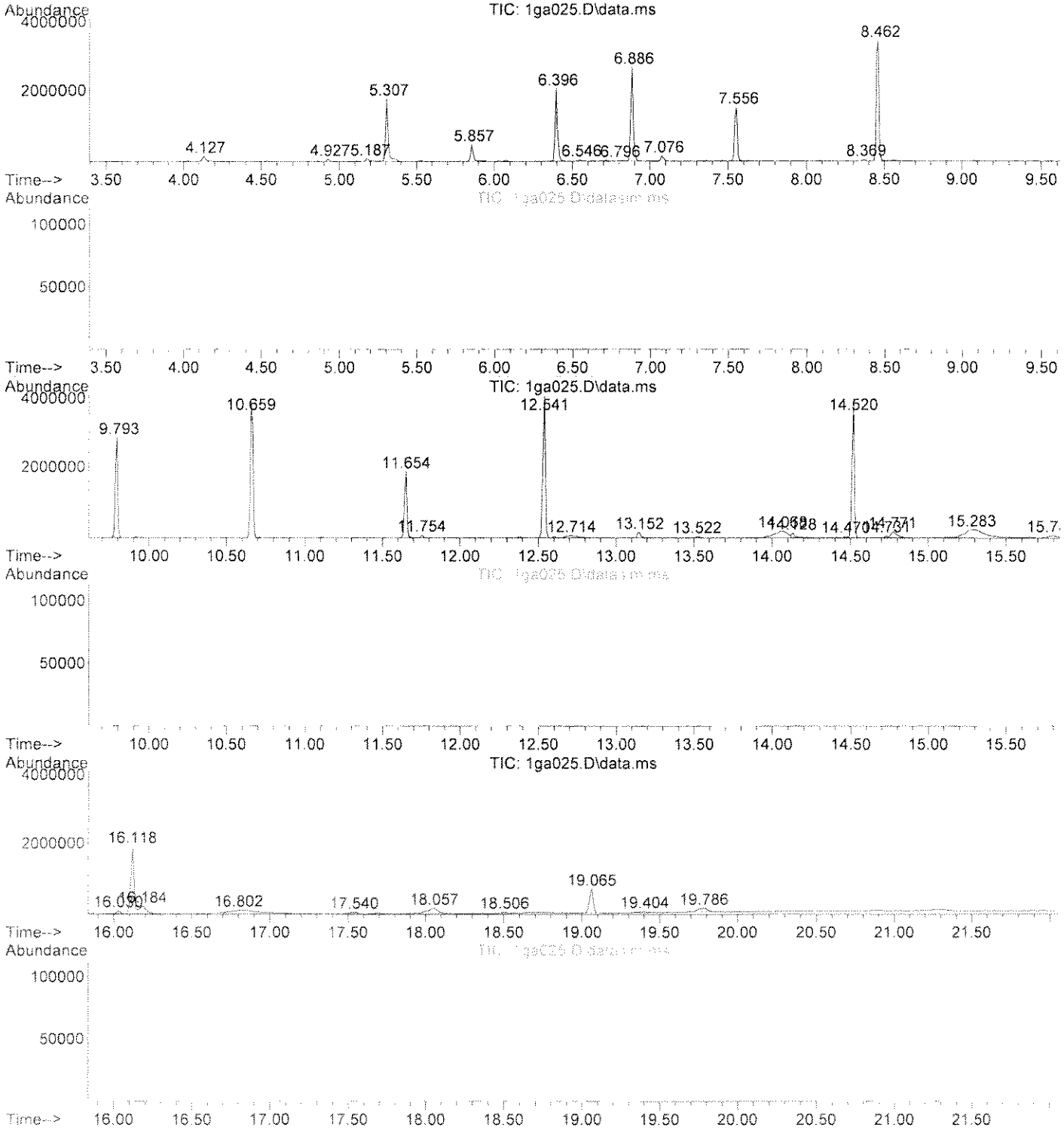
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

No peaks were detected using the above RTE integration parameters!

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.068	9.43	1052460	PHENANTHRENE-D10	12.541

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	53
2	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	50
3	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	50
4	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	45
5	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	42

****
Peak Number 2 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.771	6.16	434430	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	64
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	58
3	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	56
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	53
5	Methane, diethoxy-	104	C5H12O2	000462-95-3	53

****
Peak Number 3 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.283	13.30	937441	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	50
2	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	47
3	Butanamide, 3-methyl-	101	C5H11NO	000541-46-8	47
4	2-Hydroxy-2,4-dimethyl-3-pentanone	130	C7H14O2	003212-67-7	47
5	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	45

****
Peak Number 4 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.184	9.00	634151	CHRYSENE-D12	16.118

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
2	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	59
3	2-Butanol, 3,3'-oxybis-	162	C8H18O3	054305-61-2	59
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	58
5	Methane, diethoxy-	104	C5H12O2	000462-95-3	58

****
Peak Number 5 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.802	6.22	438185	CHRYSENE-D12	16.118

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	47
2	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	47
3	Butanoic acid, 2-hydroxy-, ethyl...	132	C6H12O3	052089-54-0	43
4	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	43
5	2,3-Butanediol, 2,3-dimethyl-	118	C6H14O2	000076-09-5	38

****
Peak Number 6 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.057	24.17	713175	PERYLENE-D12	19.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	53
2	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	50
3	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	50
4	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	47
5	2-Butanol, 3,3'-oxybis-	162	C8H18O3	054305-61-2	47

****
Peak Number 7 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.404	4.14	122068	PERYLENE-D12	19.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	47
2	Allyl(n-pentyl)dimethylsilane	170	C10H22Si	1000214-90-0	43
3	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	43

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

4	Silane, ethyldimethyl-	88	C4H12Si	000758-21-4	43
5	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	38

****
Peak Number 8 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.786	12.79	377470	PERYLENE-D12	19.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexanol, 1,5-dimethoxy-2,4-dim...	190	C10H22O3	013897-22-8	40
2	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	40
3	Dipropylene glycol	134	C6H14O3	025265-71-8	38
4	Butanamide, 2-hydroxy-2,N-dimethyl-	117	C5H11NO2	1000196-60-9	35
5	Ethanol, 2-ethoxy-	90	C4H10O2	000110-80-5	35

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070613\
Data File : 1ga025.D
Acq On : 6 Jul 2013 21:54
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
unknown	14.068	9.4		1052460	4	12.541	4462460	40.0
unknown	14.771	6.2		434430	5	16.118	2819970	40.0
unknown	15.283	13.3		937441	5	16.118	2819970	40.0
unknown	16.184	9.0		634151	5	16.118	2819970	40.0
unknown	16.802	6.2		438185	5	16.118	2819970	40.0
unknown	18.057	24.2		713175	6	19.065	1180300	40.0
unknown	19.404	4.1		122068	6	19.065	1180300	40.0
unknown	19.786	12.8		377470	6	19.065	1180300	40.0

SUNDAY

ANALYSIS SEQUENCE

AA24837

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/7/2013 09:33:59

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24837-TUN1	QC		1		A3C0367			
AA24837-CCV1	QC		2		A3G0032	A3B0304		
AA24837-CCV2	QC		3		A3G0016	A3B0304		
AA24837-CRL1	QC		4		A3G0061	A3B0304		
3F24010-BLK1	QC		5			A3B0304		
3F24010-BS1	QC		6			A3B0304		
3F24010-BSD1	QC		7			A3B0304		
A303499-08	8270D TCL SOM01.2 DOD	A	8			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-08	8270D TICs	A	9			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-10	8270D TICs	D	10			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-10	8270D TCL SOM01.2 DOD	D	11			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-13	8270D TCL SOM01.2 DOD	A	12			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-13	8270D TICs	A	13			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-16	8270D TCL SOM01.2 DOD	A	14			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-16	8270D TICs	A	15			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-02	8270D TCL SOM01.2 DOD	A	16			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-02	8270D TICs	A	17			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-03	8270D TICs	A	18			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-03	8270D TCL SOM01.2 DOD	A	19			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-04	8270D TCL SOM01.2 DOD	A	20			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-04	8270D TICs	A	21			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-05	8270D TCL SOM01.2 DOD	A	22			A3B0304	CH2M Hill, Inc. (CH025)	
A303557-05	8270D TICs	A	23			A3B0304	CH2M Hill, Inc. (CH025)	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

AA24837

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/7/2013 09:33:59

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
A303588-05	8270D TCL SOM01.2 DOD	A	24			A3B0304	CH2M Hill, Inc. (CH025)	
A303588-05	8270D TICs	A	25			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-12	8270D TCL SOM01.2 DOD	D	26			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-12	8270D TICs	D	27			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-15	8270D TCL SOM01.2 DOD	D	28			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-15	8270D TICs	D	29			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-18	8270D TCL SOM01.2 DOD	D	30			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-18	8270D TICs	D	31			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-19	8270D TCL SOM01.2 DOD	D	32			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-19	8270D TICs	D	33			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-20	8270D TCL SOM01.2 DOD	D	34			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-20	8270D TICs	D	35			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-21	8270D TCL SOM01.2 DOD	D	36			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-21	8270D TICs	D	37			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-22 @2x	8270D TCL SOM01.2 DOD	D	38			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-22	8270D TICs	D	39			A3B0304	CH2M Hill, Inc. (CH025)	DARK BROWN
A303499-11 @2x	8270D TCL SOM01.2 DOD	D	40			A3B0304	CH2M Hill, Inc. (CH025)	extracts
A303499-11	8270D TICs	D	41			A3B0304	CH2M Hill, Inc. (CH025)	Run 2x dilutions
A303499-14 @2x	8270D TCL SOM01.2 DOD	D	42			A3B0304	CH2M Hill, Inc. (CH025)	[illegible] 7-7-13
A303499-14	8270D TICs	D	43			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-17 @2x	8270D TCL SOM01.2 DOD	D	44			A3B0304	CH2M Hill, Inc. (CH025)	
A303499-17	8270D TICs	D	45			A3B0304	CH2M Hill, Inc. (CH025)	
A303334-05 @2x	8270D TCL SOM01.2 DOD	A	46			A3B0304	CH2M Hill, Inc. (CH025)	

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

AA24837

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/7/2013 09:33:59

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
A303334-05	8270D TICs	A	47			A3B0304	CH2M Hill, Inc. (CH025)	

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/24/2013 9:05:59AM

Analysis
8270D TCL SOM01.2 DOD [EPA 8270D]
8270D TICs [EPA 8270D]

3F24010
ENCO Orlando

Prepared using: EPA 3510C_MS

E

Surrogate Solution
___ A3F0288 BNA Surrogate Working

Spiking Solution
A3E0430 BNA Spike Mix Working
A3F0184 BNA DOD additional SPIKE MIX

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F24010-BLK1		Blank		QC	11/2	<0.5	500	0.5			500		
3F24010-BS1		LCS		QC	11/2	<0.5	500	0.5	A3E0430 A3F0184	500 500	500		
3F24010-BSD1		LCS Dup		QC	11/2	<0.5	500	0.5	A3E0430 A3F0184	500 500	500		
A303499-08	1 D	TR-2ND-SB07-GW-0613 A[C11]	11-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		emulsion
A303499-08	1 D	TR-2ND-SB07-GW-0613 A[C11]	11-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		emulsion
A303499-13	2 D	TR-2ND-SB06-GW-0613 A[C11]	11-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		emulsion
A303499-13	2 D	TR-2ND-SB06-GW-0613 A[C11]	11-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		emulsion
A303499-16	3 D	TR-2ND-SB04-GW-0613 A[C11]	11-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		emulsion
A303499-16	3 D	TR-2ND-SB04-GW-0613 A[C11]	11-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		emulsion
A303557-02	4 D	TR-2ND-MW01-0613 A[C11]	12-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		
A303557-02	4 D	TR-2ND-MW01-0613 A[C11]	12-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		
A303557-03	5 D	TR-2ND-MW02-0613 A[C11]	12-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		
A303557-03	5 D	TR-2ND-MW02-0613 A[C11]	12-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		
A303557-04	6 D	TR-5TH-MW01-0613 A[C11]	12-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		emulsion
A303557-04	6 D	TR-5TH-MW01-0613 A[C11]	12-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		emulsion
A303557-05	7 D	TR-5TH-MW02-0613 A[C11]	12-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		emulsion
A303557-05	7 D	TR-5TH-MW02-0613 A[C11]	12-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		emulsion
A303588-05	8 D	TR-EB01-062113 A[C11]	15-Jul-13	8270D TICs	11/2	<0.5	500	0.5			500		

PREPARATION BENCH SHEET

Printed: 6/24/2013 9:05:59AM

3F24010

ENCO Orlando

Prepared using: EPA 3510C_MS

Surrogate Solution

___ A3F0288 BNA Surrogate Working

Spiking Solution

A3E0430 BNA Spike Mix Working

A3F0184 BNA DOD additional SPIKE MIX

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303588-05 8	D	TR-EB01-062113 A[C11]	15-Jul-13	8270D TCL SOM01.2 DOD	11/2	<0.5	500	0.5			500		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

8270 Water

Start Date/Time 6/24/13 11:05

StopDate/Time 6/24/13 14:30

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0258	Sodium Hydroxide Base 6N	A0K0395
A3C0259	Sulfuric Acid 12N	A2B0598
A3F0037	Solvent Dichloromethane	Solvent Lot # DI492

Equipment Used

Sonicator

Turbovap OTVAP-1 Tuned per manufacturer instructions? [ ] Yes [ ] No [X] NA

Turbovap OTVAP-2 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP-3 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Balance Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Other Daily calibration complete? [ ] Yes [ ] No [X] NA

MAC 6/24/13

Samples Prepared By Date

Samples Prepared By Date

Samples Prepared By Date

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb002.D
Acq On : 7 Jul 2013 7:39
Operator : jfi
Sample : aa24837-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:04:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.866	152	457055	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.443	136	1994317	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.650	164	1192722	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.518	188	2078379	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.096	240	1455796	40.00	ug/mL	0.00
137) PERYLENE-d12	19.040	264	999733	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.287	112	900782	50.00	ug/mL	0.00
Spiked Amount 100.000			Recovery = 50.00%			
11) Phenol -D5 (acid surr)	6.386	99	1150697	51.89	ug/mL	0.00
Spiked Amount 100.000			Recovery = 51.89%			
33) Nitrobenzene -D5 (b/n ...	7.546	82	1019089	43.67	ug/mL	0.00
Spiked Amount 100.000			Recovery = 43.67%			
61) 2-Fluorobiphenyl (b/n ...	9.775	172	2182606	49.04	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.04%			
91) 2,4,6-Tribromophenol (...	11.634	330	292027	57.11	ug/mL	0.00
Spiked Amount 100.000			Recovery = 57.11%			
120) Terphenyl -D14 (b/n surr)	14.500	244	1892192	59.34	ug/mL	0.00
Spiked Amount 100.000			Recovery = 59.34%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.618	74	596851	49.330	ug/mL	78
3) Pyridine	3.648	79	924868	47.179	ug/mL	95
4) 2-Picoline	4.587	93	947594	49.468	ug/mL	93
5) N-Nitrosomethylethylamine	4.727	88	437373	50.892	ug/mL#	56
6) Methyl methanesulfonate	5.087	80	582546	50.417	ug/mL	93
8) 2-Fluorophenol	5.287	112	900782	49.996	ug/mL	91
9) N-Nitrosodiethylamine	5.567	102	460825	53.305	ug/mL#	69
10) Ethyl methanesulfonate	5.917	79	704868	52.258	ug/mL	93
12) Phenol -D5	6.386	99	1150697	51.894	ug/mL	85
13) Pentachloroethane	6.526	167	369543	50.899	ug/mL	100
14) aniline	6.466	93	1458696	49.979	ug/mL	92
15) Phenol	6.406	94	1104194	51.513	ug/mL	89
16) Bis(2-chloroethyl)ether	6.516	93	852847	51.212	ug/mL	90
17) 2-Chlorophenol	6.616	128	892474	51.534	ug/mL	96
18) 1,3-Dichlorobenzene	6.796	146	1028727	50.266	ug/mL	99
19) 1,4-Dichlorobenzene	6.886	146	1053113	50.696	ug/mL	99
20) Benzyl Alcohol	7.016	108	606682	53.696	ug/mL	89
21) 1,2-Dichlorobenzene	7.076	146	971143	50.436	ug/mL	99
22) 2-Methylphenol	7.136	107	766085	52.455	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.176	45	1069284	51.452	ug/mL	94
24) Acetophenone	7.346	105	1393920	53.571	ug/mL	89
25) 3 & 4-Methylphenol	7.336	108	1985469	109.609	ug/mL	98
26) N-Nitrosodi-n-propylamine	7.356	70	713287	53.501	ug/mL	93
27) N-Nitrosopyrrolidine	7.336	100	504789	57.946	ug/mL	92
28) N-Nitrosomorpholine	7.366	56	634231	51.865	ug/mL	90
29) Hexachloroethane	7.496	117	406453	49.513	ug/mL	99
30) o-Toluidine	7.396	106	1450083	50.213	ug/mL	99
31) a,a-Dimethylphenethyla...	8.425	58	2121178	58.308	ug/mL	88
34) Nitrobenzene -D5	7.546	82	1019089	43.671	ug/mL	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb002.D
Acq On : 7 Jul 2013 7:39
Operator : jfi
Sample : aa24837-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:04:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.866	152	457055	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.443	136	1994317	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.650	164	1192722	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.518	188	2078379	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.096	240	1455796	40.00	ug/mL	0.00
137) PERYLENE-d12	19.040	264	999733	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.287	112	900782	50.00	ug/mL	0.00
Spiked Amount 100.000			Recovery = 50.00%			
11) Phenol -D5 (acid surr)	6.386	99	1150697	51.89	ug/mL	0.00
Spiked Amount 100.000			Recovery = 51.89%			
33) Nitrobenzene -D5 (b/n ...	7.546	82	1019089	43.67	ug/mL	0.00
Spiked Amount 100.000			Recovery = 43.67%			
61) 2-Fluorobiphenyl (b/n ...	9.775	172	2182606	49.04	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.04%			
91) 2,4,6-Tribromophenol (...	11.634	330	292027	57.11	ug/mL	0.00
Spiked Amount 100.000			Recovery = 57.11%			
120) Terphenyl -D14 (b/n surr)	14.500	244	1892192	59.34	ug/mL	0.00
Spiked Amount 100.000			Recovery = 59.34%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.618	74	596851	49.330	ug/mL	78
3) Pyridine	3.648	79	924868	47.179	ug/mL	95
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5) N-Nitrosomethylethylamine	4.727	88	437373	50.892	ug/mL#	56
6) Methyl methanesulfonate	5.087	80	582546	50.417	ug/mL	93
8) 2-Fluorophenol	5.287	112	900782	49.996	ug/mL	91
9) N-Nitrosodiethylamine	5.567	102	460825	53.305	ug/mL#	69
10) Ethyl methanesulfonate	5.917	79	704868	52.258	ug/mL	93
12) Phenol -D5	6.386	99	1150697	51.894	ug/mL	85
13) Pentachloroethane	6.526	167	369543	50.899	ug/mL	100
14) aniline	6.466	93	1458696	49.979	ug/mL	92
15) Phenol	6.406	94	1104194	51.513	ug/mL	89
16) Bis(2-chloroethyl)ether	6.516	93	852847	51.212	ug/mL	90
17) 2-Chlorophenol	6.616	128	892474	51.534	ug/mL	96
18) 1,3-Dichlorobenzene	6.796	146	1028727	50.266	ug/mL	99
19) 1,4-Dichlorobenzene	6.886	146	1053113	50.696	ug/mL	99
20) Benzyl Alcohol	7.016	108	606682	53.696	ug/mL	89
21) 1,2-Dichlorobenzene	7.076	146	971143	50.436	ug/mL	99
22) 2-Methylphenol	7.136	107	766085	52.455	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.176	45	1069284	51.452	ug/mL	94
24) Acetophenone	7.346	105	1393920	53.571	ug/mL	89
25) 3 & 4-Methylphenol	7.336	108	1985469	109.609	ug/mL	98
26) N-Nitrosodi-n-propylamine	7.356	70	713287	53.501	ug/mL	93
27) N-Nitrosopyrrolidine	7.336	100	504789	57.946	ug/mL	92
28) N-Nitrosomorpholine	7.366	56	634231	51.865	ug/mL	90
29) Hexachloroethane	7.496	117	406453	49.513	ug/mL	99
30) o-Toluidine	7.396	106	1450083	50.213	ug/mL	99
31) a,a-Dimethylphenethyla...	8.425	58	2121178	58.308	ug/mL	88
34) Nitrobenzene -D5	7.546	82	1019089	43.671	ug/mL	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb002.D
Acq On : 7 Jul 2013 7:39
Operator : jfi
Sample : aa24837-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:04:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Nitrobenzene	7.566	77	990132	47.071	ug/mL	92
36)	N-Nitrosopiperidine	7.746	114	477038	51.758	ug/mL#	61
37)	Isophorone	7.856	82	1853126	53.728	ug/mL	98
38)	2-Nitrophenol	7.956	139	474308	49.874	ug/mL	91
39)	2,4-Dimethylphenol	7.986	122	878291	51.276	ug/mL	97
40)	Bis(2-chloroethoxy)met...	8.099	93	1067413	51.282	ug/mL	98
41)	o,o,o-Triethyl Phospho...	8.062	198	583442	53.210	ug/mL	96
42)	Benzoic Acid	8.127	105	726317	59.393	ug/mL#	1
43)	2,4-Dichlorophenol	8.257	162	751821	52.395	ug/mL	99
44)	1,2,4-Trichlorobenzene	8.360	180	897596	50.030	ug/mL	96
45)	Naphthalene	8.471	128	2914028	51.143	ug/mL	99
46)	4-Chloroaniline	8.518	127	1137191	51.231	ug/mL	99
47)	2,6-Dichlorophenol	8.536	162	768765	52.386	ug/mL	100
48)	Hexachloropropene	8.583	213	532325	42.972	ug/mL	99
49)	Hexachlorobutadiene	8.620	223	353633	50.732	ug/mL	97
50)	N-Nitrosodi-n-Butylamine	8.918	84	770364	55.413	ug/mL	89
51)	p-Phenylenediamine	8.955	108	413009	51.367	ug/mL	91
52)	4-Chloro-3-methylphenol	9.095	107	884880	54.247	ug/mL	88
53)	Safrole	9.197	162	710163	54.629	ug/mL	90
54)	2-Methylnaphthalene	9.328	142	2022008	53.382	ug/mL	96
55)	1-Methylnaphthalene	9.458	142	2346753	54.856	ug/mL	96
56)	Hexachlorocyclopentadiene	9.533	237	400618	43.617	ug/mL	98
58)	1,2,4,5-Tetrachloroben...	9.542	216	965088	47.992	ug/mL	98
59)	2,4,6-Trichlorophenol	9.672	196	574501	49.340	ug/mL	98
60)	2,4,5-Trichlorophenol	9.719	196	639450	50.630	ug/mL	99
62)	2-Fluorobiphenyl	9.775	172	2182606	49.037	ug/mL	100
63)	Isosafrole	9.849	162	698416	48.467	ug/mL	95
64)	2-Chloronaphthalene	9.942	162	1754573	48.166	ug/mL	96
65)	2-Nitroaniline	10.054	65	600583	49.668	ug/mL	90
66)	1,4-Naphthoquinone	10.147	158	404226	43.196	ug/mL	93
67)	Dimethyl phthalate	10.268	163	2114313	50.946	ug/mL	100
68)	m-Dinitrobenzene	10.315	168	319282m	51.706	ug/mL	
69)	2,6-Dinitrotoluene	10.352	165	480369	52.264	ug/mL	85
70)	Acenaphthylene	10.473	152	3097674	51.153	ug/mL	99
71)	3-Nitroaniline	10.566	138	458561	51.205	ug/mL	95
72)	Acenaphthene	10.687	154	2015295	50.813	ug/mL	99
73)	2,4-Dinitrophenol	10.697	184	293406	47.316	ug/mL#	73
74)	Pentachlorobenzene	10.865	250	828440	53.044	ug/mL	100
75)	4-Nitrophenol	10.762	109	326763	56.054	ug/mL	94
76)	Dibenzofuran	10.902	168	2442994	48.938	ug/mL	93
77)	2,4-Dinitrotoluene	10.865	165	660489	54.393	ug/mL	92
78)	2-Naphthylamine	10.995	143	1488313	51.607	ug/mL	95
79)	1-Naphthylamine	11.098	143	1785876	52.384	ug/mL	96
80)	2,3,4,6-Tetrachlorophenol	11.051	232	509080	51.638	ug/mL	96
81)	Diethyl phthalate	11.145	149	2091019	50.862	ug/mL	97
82)	4-Chlorophenyl phenyl ...	11.312	204	1073325	52.760	ug/mL	96
83)	Fluorene	11.333	166	2160714	50.560	ug/mL	99
84)	Thionazin	11.256	107	392363	52.227	ug/mL	96
85)	5-Nitro-o-toluidine	11.333	152	601019m	53.968	ug/mL	
86)	4-Nitroaniline	11.353	138	464105	51.670	ug/mL	90
87)	2-Methyl-4,6-dinitroph...	11.383	198	343084	49.180	ug/mL	100
88)	Diphenylamine/N-Nitros...	11.463	169	3467440	102.951	ug/mL	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb002.D
Acq On : 7 Jul 2013 7:39
Operator : jfi
Sample : aa24837-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:04:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.463	169	3467440	51.476 ug/mL	99
90)	DPH (as Azobenzene)	11.513	182	543746	49.995 ug/mL	93
92)	2,4,6-Tribromophenol	11.634	330	292027	57.108 ug/mL	97
94)	Sulfotepp	11.624	97	392495	45.743 ug/mL	95
95)	Diallate	11.815	86	733227	47.106 ug/mL#	80
96)	Phorate	11.825	75	1193663	47.534 ug/mL	98
97)	4-Bromophenylphenyl ether	11.935	248	626431	47.415 ug/mL	97
98)	Phenacetin	11.845	108	997876	52.637 ug/mL	98
99)	1,3,5-Trinitrobenzene	11.775	213	245949	59.759 ug/mL#	83
100)	Hexachlorobenzene	12.046	284	710408	55.062 ug/mL	99
101)	Dimethoate	12.046	87	810658	57.422 ug/mL	92
102)	4-Aminobiphenyl	12.264	169	2265434	52.516 ug/mL	97
103)	Pentachlorophenol	12.287	266	386242	50.144 ug/mL	99
104)	Pronamide	12.310	173	606502	51.674 ug/mL	96
105)	Pentachloronitrobenzene	12.298	237	275687	51.065 ug/mL	94
106)	Phenanthrene	12.552	178	2834771	47.497 ug/mL	99
107)	Disulfoton	12.483	88	1179253	52.613 ug/mL	92
108)	Anthracene	12.621	178	3174415	52.060 ug/mL	98
109)	Dinoseb	12.483	211	567525	48.769 ug/mL	98
110)	Carbazole	12.806	167	2695123	55.131 ug/mL	98
111)	Methyl Parathion	12.956	109	752988	57.188 ug/mL	93
112)	Di-n-butyl phthalate	13.187	149	3512931	53.314 ug/mL	97
113)	Parathion	13.430	109	453547	56.296 ug/mL	98
114)	4-Nitroquinoline-1-oxide	13.510	190	261314	75.513 ug/mL	88
115)	Methapyrilene	13.580	97	670355	62.555 ug/mL	98
116)	Isodrin	13.867	193	274675	52.469 ug/mL	89
117)	Fluoranthene	14.048	202	2493924	57.754 ug/mL	96
118)	Benzidine	13.867	184	17485	49.298 ug/mL#	87
119)	Pyrene	14.349	202	2639645	58.599 ug/mL	95
121)	Terphenyl -D14	14.500	244	1892192	59.342 ug/mL	99
122)	Aramite	14.429	185	48473	62.690 ug/mL	91
123)	Benzylbutyl phthalate	15.113	149	1080972	59.289 ug/mL	94
125)	p-(dimethylamino)azobe...	14.671	225	491540	50.693 ug/mL#	100
126)	Chlorobenzilate	14.721	251	682335	51.664 ug/mL	97
127)	Famphur	15.777	218	61612	No Calib	
128)	3,3'-Dimethylbenzidine	15.123	212	805596	41.754 ug/mL	96
129)	Kepone	19.760	272	651	No Calib #	
130)	2-Acetylaminofluorene	15.512	181	792476	53.978 ug/mL	100
131)	3,3'-Dichlorobenzidine	15.997	252	658324	50.893 ug/mL	98
132)	Benzo(a)anthracene	16.074	228	1972832	47.843 ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	16.008	149	1424591	51.141 ug/mL	98
134)	Chrysene	16.151	228	1820579	48.804 ug/mL	97
135)	Di-n-octyl phthalate	17.287	149	2181520	51.034 ug/mL	100
136)	Hexachlorophene	19.040	196	1377	No Calib	
138)	7,12-Dimethylbenz(a)an...	18.260	256	821504	49.277 ug/mL	98
139)	Benzo(b)fluoranthene	18.286	252	1750509	49.149 ug/mL	95
140)	Benzo(k)fluoranthene	18.336	252	1393844	46.671 ug/mL	94
141)	Benzo(a)pyrene	18.938	252	1408410	48.787 ug/mL	95
142)	3-Methylcholanthrene	19.557	268	722675	48.944 ug/mL	97
143)	Indeno(1,2,3-cd)pyrene	20.795	276	1234157	46.540 ug/mL	83
144)	Dibenzo(a,h)anthracene	20.814	278	1072964	46.848 ug/mL	89
145)	Benzo(g,h,i)perylene	21.253	276	881758	44.541 ug/mL	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb002.D
Acq On : 7 Jul 2013 7:39
Operator : jfi
Sample : aa24837-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:04:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

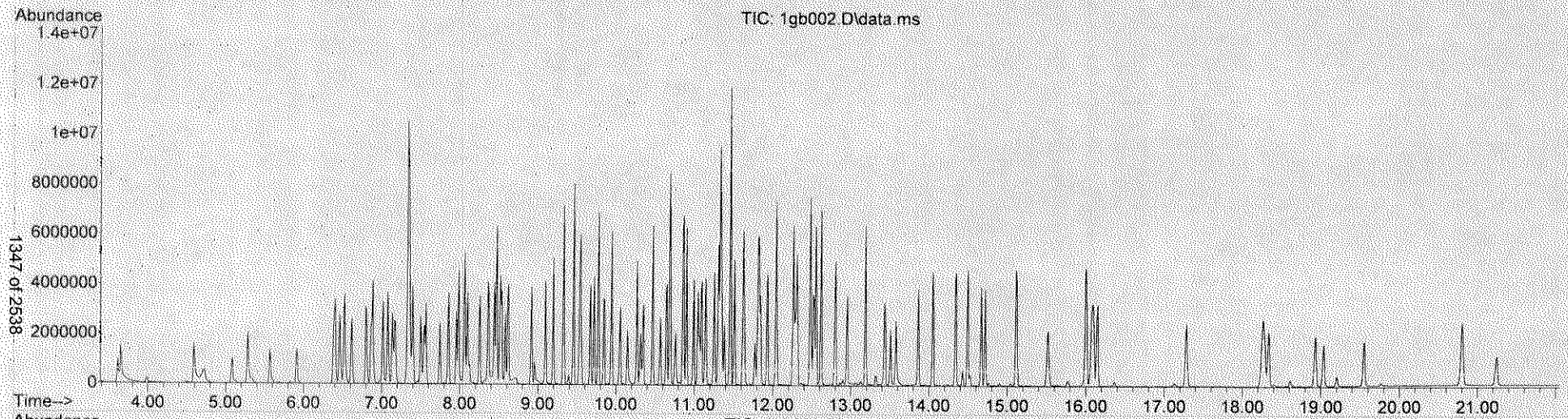
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

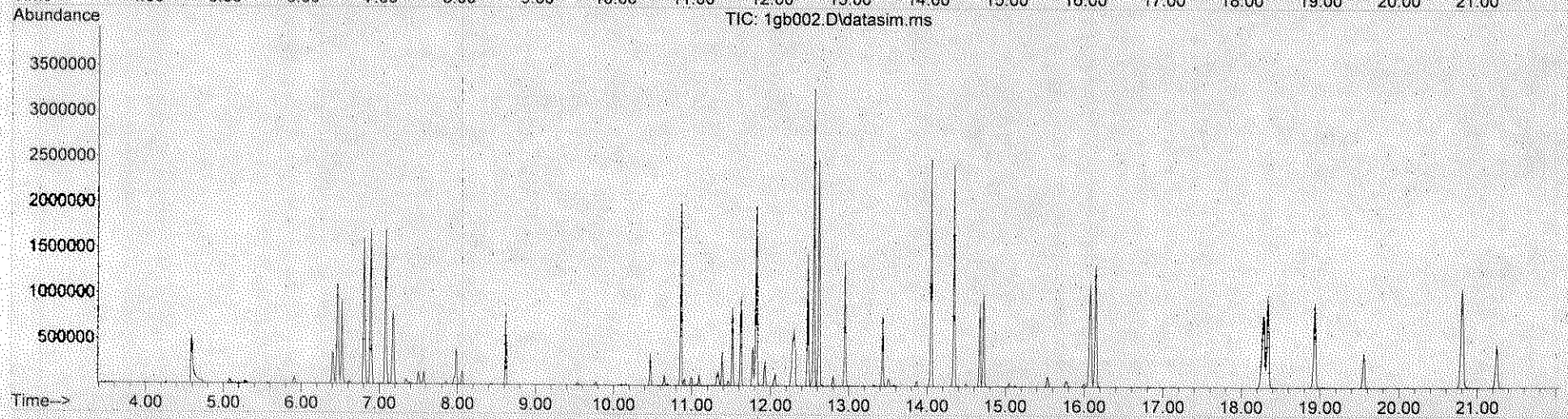
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb002.D
Acq On : 7 Jul 2013 7:39
Operator : jfi
Sample : aa24837-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:04:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb003.D
Acq On : 7 Jul 2013 8:08
Operator : jfi
Sample : aa24837-ccv2
Misc : a3g0006 tcl
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 08:31:11 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

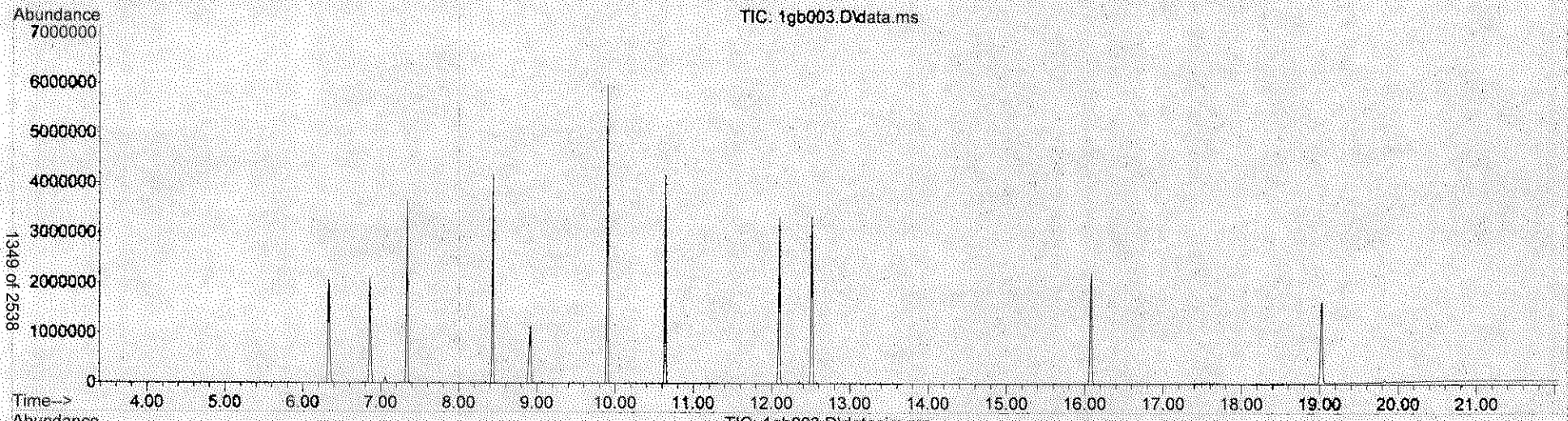
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	448698	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1909671	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	1063088	40.00	ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1748449	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.085	240	1293829	40.00	ug/mL	-0.04
10) PERYLENE-d12	19.031	264	1062178	40.00	ug/mL	-0.04
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	629028	49.583	ug/mL	97
4) Caprolactam	8.918	113	242860	59.007	ug/mL	98
6) 1,1'-Biphenyl	9.896	154	1927711	45.615	ug/mL	97
7) Atrazine	12.102	200	523815	57.781	ug/mL	99

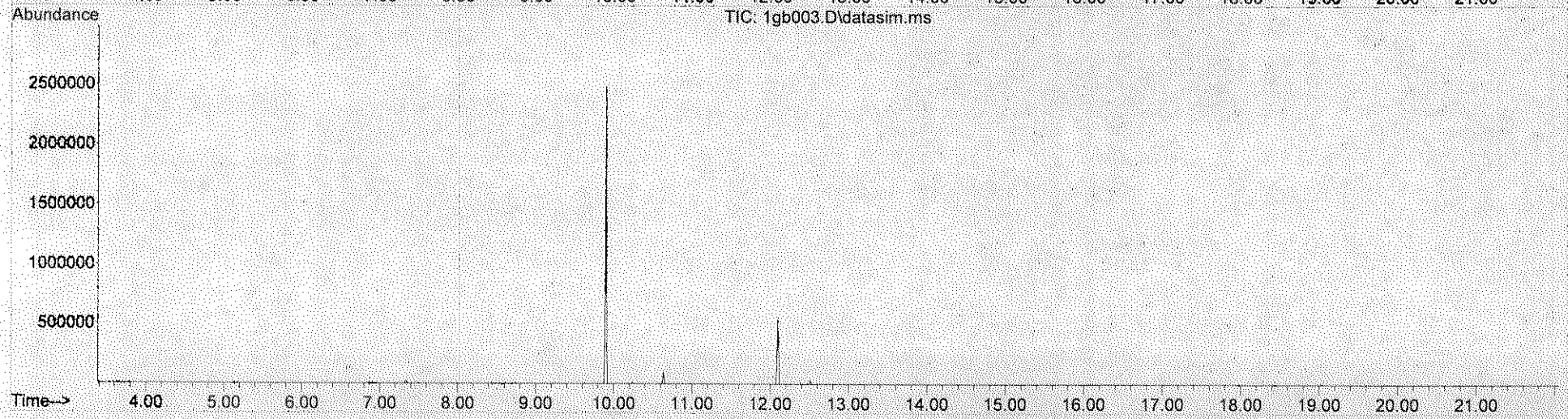
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb003.D
Acq On : 7 Jul 2013 8:08
Operator : jfi
Sample : aa24837-ccv2
Misc : a3g0006 tcl
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 08:31:11 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb004.D
Acq On : 7 Jul 2013 8:36
Operator : jfi
Sample : aa24837-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 08:58:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	597642	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	2463411	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	1366473	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.517	188	2319440	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.085	240	1764162	40.00	ug/mL	-0.01
137) PERYLENE-d12	19.031	264	1345778	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	223260	9.48	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 9.48%			
11) Phenol -D5 (acid surr)	6.376	99	271845	9.38	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 9.38%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	280924	9.75	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 9.75%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	447480	8.78	ug/mL	0.00
Spiked Amount 100.000			Recovery = 8.78%			
91) 2,4,6-Tribromophenol (...	11.624	330	53023	9.05	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 9.05%			
120) Terphenyl -D14 (b/n surr)	14.490	244	364592	10.25	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 10.25%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.607	74	160359	10.136	ug/mL	83
3) Pyridine	3.647	79	240369	9.377	ug/mL	96
4) 2-Picoline	4.587	93	237414	9.478	ug/mL	95
5) N-Nitrosomethylethylamine	4.717	88	111684	9.938	ug/mL#	60
6) Methyl methanesulfonate	5.067	80	147356	9.753	ug/mL	94
8) 2-Fluorophenol	5.277	112	223260	9.477	ug/mL	93
9) N-Nitrosodiethylamine	5.557	102	109471	9.684	ug/mL#	72
10) Ethyl methanesulfonate	5.896	79	166719	9.453	ug/mL	94
12) Phenol -D5	6.376	99	271845	9.376	ug/mL	87
13) Pentachloroethane	6.516	167	92343	9.727	ug/mL	98
14) aniline	6.456	93	357322	9.363	ug/mL	93
15) Phenol	6.386	94	264510	9.437	ug/mL	92
16) Bis(2-chloroethyl)ether	6.506	93	205264	9.426	ug/mL	93
17) 2-Chlorophenol	6.606	128	213687	9.436	ug/mL	99
18) 1,3-Dichlorobenzene	6.796	146	251421	9.395	ug/mL	99
19) 1,4-Dichlorobenzene	6.876	146	254441	9.367	ug/mL	98
20) Benzyl Alcohol	7.006	108	139427	9.437	ug/mL	94
21) 1,2-Dichlorobenzene	7.076	146	235687	9.361	ug/mL	98
22) 2-Methylphenol	7.126	107	181674	9.513	ug/mL	89
23) Bis(2-chloroisopropyl)...	7.166	45	273451	10.063	ug/mL	98
24) Acetophenone	7.336	105	321091	9.437	ug/mL	96
25) 3 & 4-Methylphenol	7.316	108	430098	18.158	ug/mL	99
26) N-Nitrosodi-n-propylamine	7.326	70	179426	10.292	ug/mL	98
27) N-Nitrosopyrrolidine	7.296	100	107571	9.444	ug/mL	97
28) N-Nitrosomorpholine	7.346	56	163151	10.203	ug/mL	97
29) Hexachloroethane	7.496	117	99750	9.293	ug/mL	97
30) o-Toluidine	7.386	106	351126	9.298	ug/mL	99
31) a,a-Dimethylphenethyla...	8.350	58	427895	8.995	ug/mL	99
34) Nitrobenzene -D5	7.526	82	280924	9.746	ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb004.D
Acq On : 7 Jul 2013 8:36
Operator : jfi
Sample : aa24837-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 08:58:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Nitrobenzene	7.556	77	245413	9.445	ug/mL	97
36)	N-Nitrosopiperidine	7.726	114	111109	9.759	ug/mL#	67
37)	Isophorone	7.836	82	432723	10.157	ug/mL	100
38)	2-Nitrophenol	7.946	139	104964	8.935	ug/mL	91
39)	2,4-Dimethylphenol	7.966	122	195851	9.257	ug/mL	98
40)	Bis(2-chloroethoxy)met...	8.080	93	246911	9.603	ug/mL	99
41)	o,o,o-Triethyl Phospho...	8.043	198	122733	9.062	ug/mL	89
42)	Benzoic Acid	8.080	105	317498	21.019	ug/mL#	68
43)	2,4-Dichlorophenol	8.238	162	158683	8.953	ug/mL	96
44)	1,2,4-Trichlorobenzene	8.359	180	200719	9.057	ug/mL	97
45)	Naphthalene	8.462	128	631481	8.972	ug/mL	99
46)	4-Chloroaniline	8.499	127	246238	8.981	ug/mL	99
47)	2,6-Dichlorophenol	8.518	162	166329	9.176	ug/mL	99
48)	Hexachloropropene	8.574	213	118512	7.745	ug/mL	99
49)	Hexachlorobutadiene	8.611	223	78918	9.166	ug/mL	98
50)	N-Nitrosodi-n-Butylamine	8.909	84	173685	10.114	ug/mL	90
51)	p-Phenylenediamine	8.937	108	110187	11.095	ug/mL	92
52)	4-Chloro-3-methylphenol	9.086	107	200697	9.961	ug/mL	92
53)	Safrole	9.188	162	149129	9.287	ug/mL	99
54)	2-Methylnaphthalene	9.318	142	424628	9.076	ug/mL	98
55)	1-Methylnaphthalene	9.449	142	472895	8.949	ug/mL	98
56)	Hexachlorocyclopentadiene	9.523	237	74934	6.605	ug/mL	99
58)	1,2,4,5-Tetrachloroben...	9.532	216	197126	8.556	ug/mL	98
59)	2,4,6-Trichlorophenol	9.663	196	112709	8.449	ug/mL	96
60)	2,4,5-Trichlorophenol	9.709	196	121355	8.387	ug/mL	98
62)	2-Fluorobiphenyl	9.765	172	447480	8.775	ug/mL	99
63)	Isosafrole	9.840	162	142180	8.612	ug/mL	98
64)	2-Chloronaphthalene	9.933	162	369029	8.842	ug/mL	98
65)	2-Nitroaniline	10.035	65	131511	9.493	ug/mL	97
66)	1,4-Naphthoquinone	10.138	158	118984	11.098	ug/mL	96
67)	Dimethyl phthalate	10.249	163	442883	9.315	ug/mL	99
68)	m-Dinitrobenzene	10.296	168	65478	9.255	ug/mL#	82
69)	2,6-Dinitrotoluene	10.333	165	96167	9.133	ug/mL	94
70)	Acenaphthylene	10.464	152	619919	8.935	ug/mL	99
71)	3-Nitroaniline	10.547	138	91741	8.942	ug/mL	98
72)	Acenaphthene	10.678	154	395275	8.699	ug/mL	98
73)	2,4-Dinitrophenol	10.678	184	47629	10.451	ug/mL#	27
74)	Pentachlorobenzene	10.846	250	157328	8.793	ug/mL	99
75)	4-Nitrophenol	10.734	109	63006	9.434	ug/mL	93
76)	Dibenzofuran	10.893	168	503847	8.810	ug/mL	98
77)	2,4-Dinitrotoluene	10.846	165	128292	9.222	ug/mL	97
78)	2-Naphthylamine	10.976	143	293142	8.872	ug/mL	99
79)	1-Naphthylamine	11.079	143	317061	8.118	ug/mL	98
80)	2,3,4,6-Tetrachlorophenol	11.042	232	89866	7.956	ug/mL	99
81)	Diethyl phthalate	11.135	149	451461	9.585	ug/mL	98
82)	4-Chlorophenyl phenyl ...	11.303	204	212865	9.133	ug/mL	99
83)	Fluorene	11.322	166	418285	8.543	ug/mL	100
84)	Thionazin	11.238	107	85522	9.936	ug/mL	98
85)	5-Nitro-o-toluidine	11.312	152	113898	8.927	ug/mL	89
86)	4-Nitroaniline	11.322	138	97607	9.485	ug/mL	91
87)	2-Methyl-4,6-dinitroph...	11.363	198	66775	8.355	ug/mL	96
88)	Diphenylamine/N-Nitros...	11.443	169	643657	16.681	ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb004.D
Acq On : 7 Jul 2013 8:36
Operator : jfi
Sample : aa24837-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 08:58:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.443	169	643657	8.340	ug/mL	97
90)	DPH (as Azobenzene)	11.503	182	111877	8.979	ug/mL	90
92)	2,4,6-Tribromophenol	11.624	330	53023	9.051	ug/mL	94
94)	Sulfotepp	11.614	97	91129	9.517	ug/mL#	82
95)	Diallate	11.794	86	161855	9.318	ug/mL#	82
96)	Phorate	11.804	75	264173	9.427	ug/mL	98
97)	4-Bromophenylphenyl ether	11.925	248	117607	7.977	ug/mL	93
98)	Phenacetin	11.804	108	215852	10.203	ug/mL	100
99)	1,3,5-Trinitrobenzene	11.744	213	46324	10.086	ug/mL	98
100)	Hexachlorobenzene	12.036	284	130637	9.073	ug/mL	94
101)	Dimethoate	12.025	87	194154	12.323	ug/mL	94
102)	4-Aminobiphenyl	12.240	169	401706	8.344	ug/mL	99
103)	Pentachlorophenol	12.263	266	66168	7.697	ug/mL	99
104)	Pronamide	12.298	173	124911	9.536	ug/mL	96
105)	Pentachloronitrobenzene	12.286	237	57468	9.538	ug/mL	93
106)	Phenanthrene	12.540	178	580518	8.716	ug/mL	100
107)	Disulfoton	12.460	88	234522	9.376	ug/mL	96
108)	Anthracene	12.610	178	582254	8.556	ug/mL	99
109)	Dinoseb	12.471	211	99735	7.680	ug/mL	97
110)	Carbazole	12.783	167	502663	9.214	ug/mL	98
111)	Methyl Parathion	12.944	109	171416	11.666	ug/mL	91
112)	Di-n-butyl phthalate	13.175	149	725573	9.867	ug/mL	99
113)	Parathion	13.418	109	98966	11.007	ug/mL	92
114)	4-Nitroquinoline-1-oxide	13.487	190	42697	11.056	ug/mL	69
115)	Methapyrilene	13.568	97	212845	17.798	ug/mL	91
116)	Isodrin	13.857	193	55719	9.537	ug/mL	90
117)	Fluoranthene	14.037	202	486841	10.102	ug/mL	95
118)	Benzidine	13.857	184	4126	10.424	ug/mL	83
119)	Pyrene	14.329	202	511116	10.167	ug/mL	93
121)	Terphenyl -D14	14.490	244	364592	10.246	ug/mL	100
122)	Aramite	14.429	185	11220	13.003	ug/mL	90
123)	Benzylbutyl phthalate	15.102	149	238036	11.699	ug/mL	99
125)	p-(dimethylamino)azobe...	14.660	225	103269	8.789	ug/mL#	100
126)	Chlorobenzilate	14.711	251	136278	8.515	ug/mL	89
127)	Famphur	15.765	218	8904	No Calib	#	
128)	3,3'-Dimethylbenzidine	15.112	212	244576	10.461	ug/mL	97
129)	Kepone	0.000		0	N.D.		
130)	2-Acetylaminofluorene	15.501	181	179955	10.115	ug/mL	98
131)	3,3'-Dichlorobenzidine	15.986	252	156110	9.959	ug/mL	98
132)	Benzo(a)anthracene	16.063	228	460508	9.216	ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	15.997	149	313224	9.279	ug/mL	98
134)	Chrysene	16.129	228	407065	9.005	ug/mL	98
135)	Di-n-octyl phthalate	17.265	149	475943	9.188	ug/mL	100
136)	Hexachlorophene	19.031	196	1074	No Calib	#	
138)	7,12-Dimethylbenz(a)an...	18.235	256	189017	8.423	ug/mL	96
139)	Benzo(b)fluoranthene	18.252	252	410327	8.558	ug/mL	95
140)	Benzo(k)fluoranthene	18.311	252	356077	8.857	ug/mL	95
141)	Benzo(a)pyrene	18.913	252	362562	9.330	ug/mL	96
142)	3-Methylcholanthrene	19.531	268	192884	9.704	ug/mL	99
143)	Indeno(1,2,3-cd)pyrene	20.777	276	373447	10.461	ug/mL	84
144)	Dibenzo(a,h)anthracene	20.795	278	320158	10.384	ug/mL	90
145)	Benzo(g,h,i)perylene	21.224	276	297802	11.175	ug/mL	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb004.D
Acq On : 7 Jul 2013 8:36
Operator : jfi
Sample : aa24837-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 08:58:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

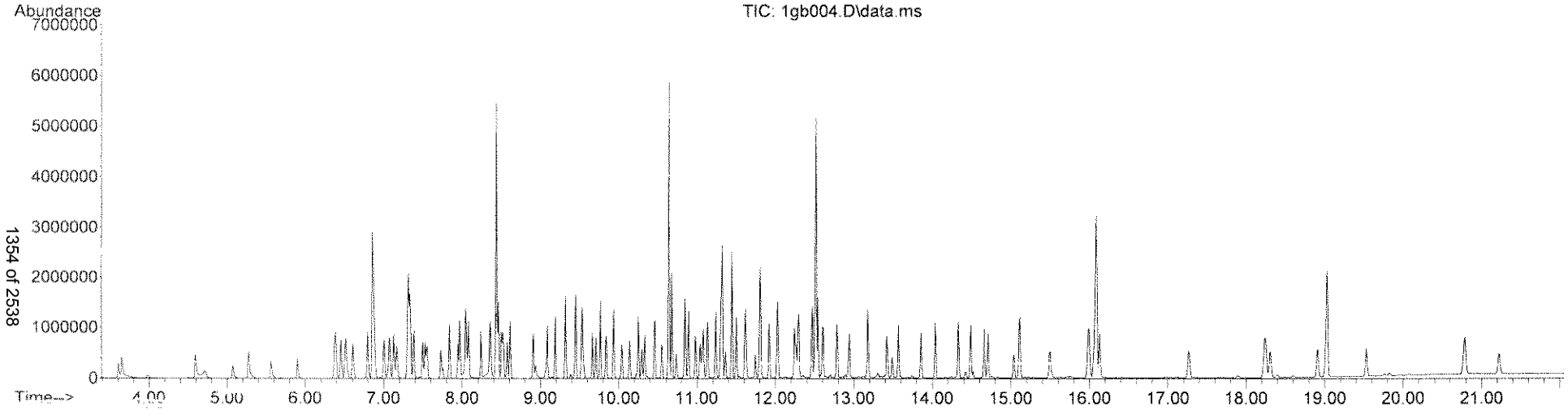
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

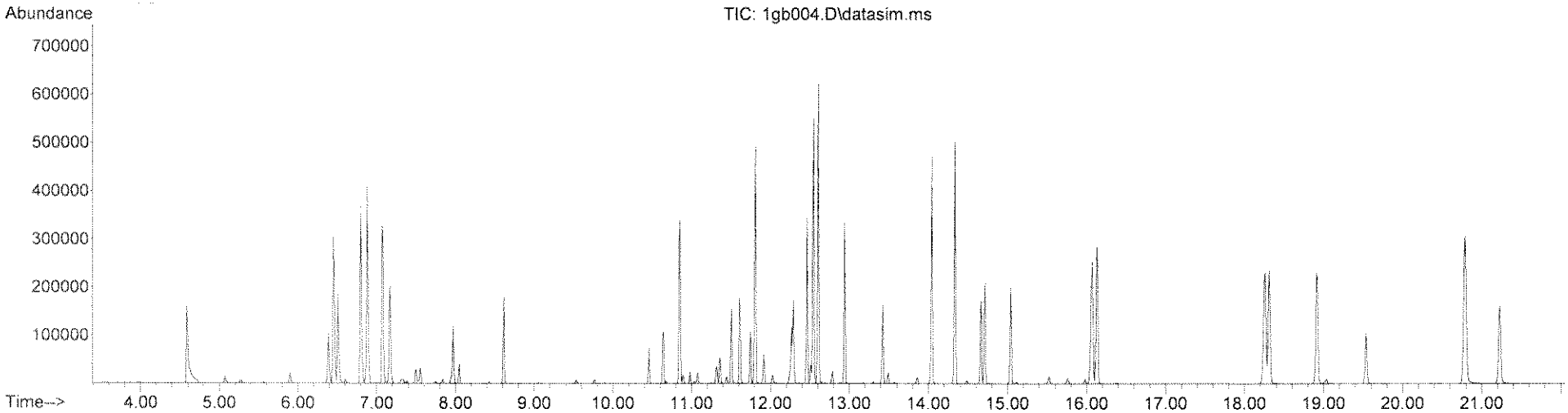
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb004.D
Acq On : 7 Jul 2013 8:36
Operator : jfi
Sample : aa24837-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 08:58:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

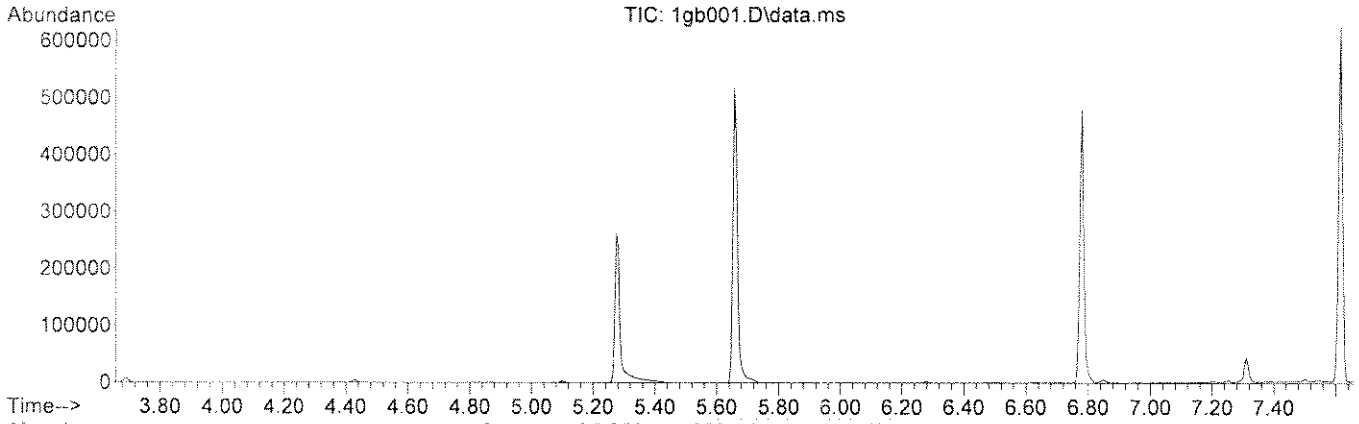


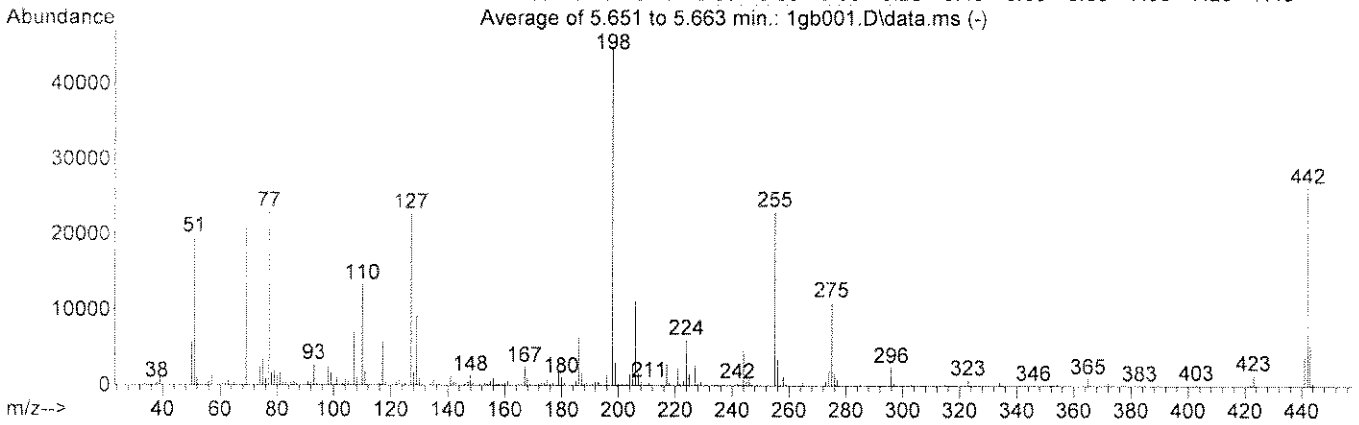


Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb001.D
Acq On : 7 Jul 2013 7:26
Operator : jfi
Sample : aa24837-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Sat Jul 06 10:29:36 2013





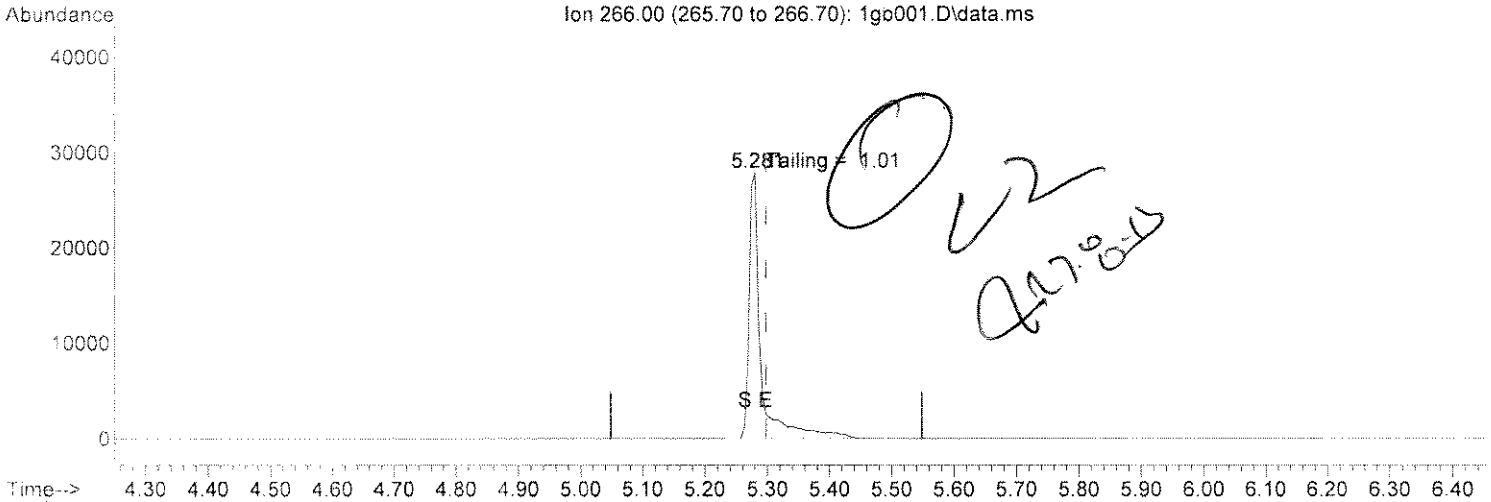
AutoFind: Scans 437, 438, 439; Background Corrected with Scan 432

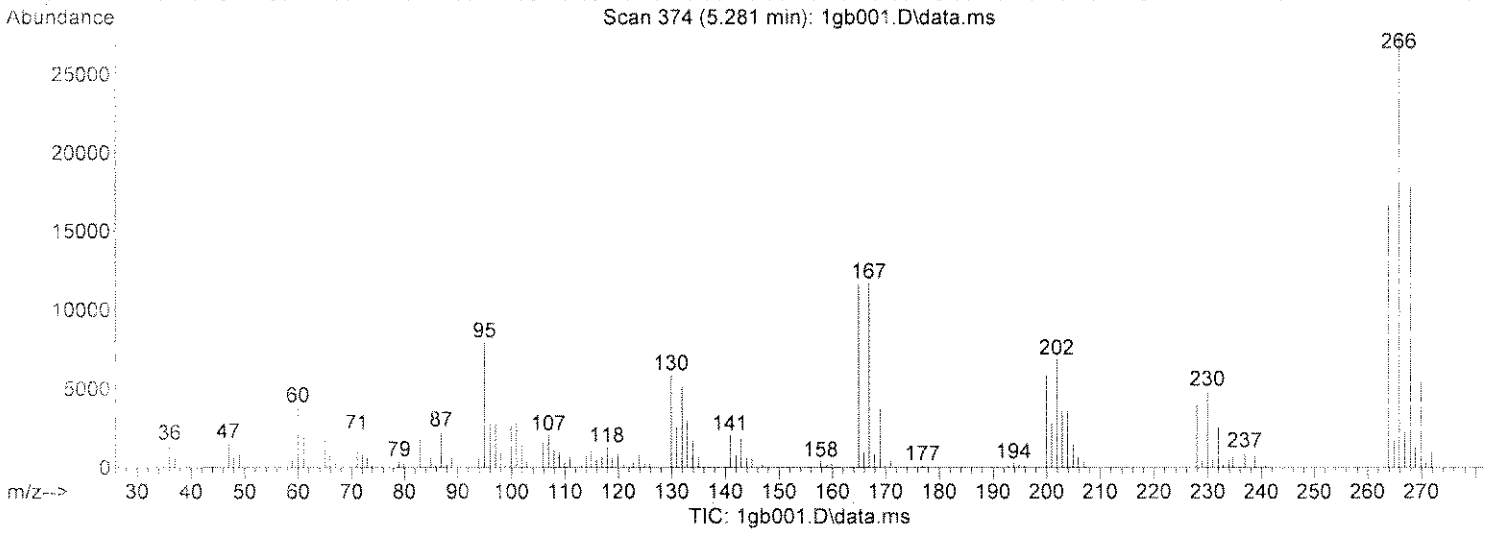
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.7	19624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.5	20903	PASS
70	69	0.00	2	0.2	44	PASS
127	198	10	80	50.8	22830	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	44914	PASS
199	198	5	9	6.9	3107	PASS
275	198	10	60	24.8	11126	PASS
365	198	1	100	2.3	1031	PASS
441	442	0.01	24	15.0	3960	PASS
442	198	50	100	58.7	26378	PASS
443	442	15	24	20.1	5300	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb001.D
Acq On : 7 Jul 2013 7:26
Operator : jfi
Sample : aa24837-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 07:35:26 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration





(1) Pentachlorophenol

5.281min (-0.018) 52.11 ug/ml

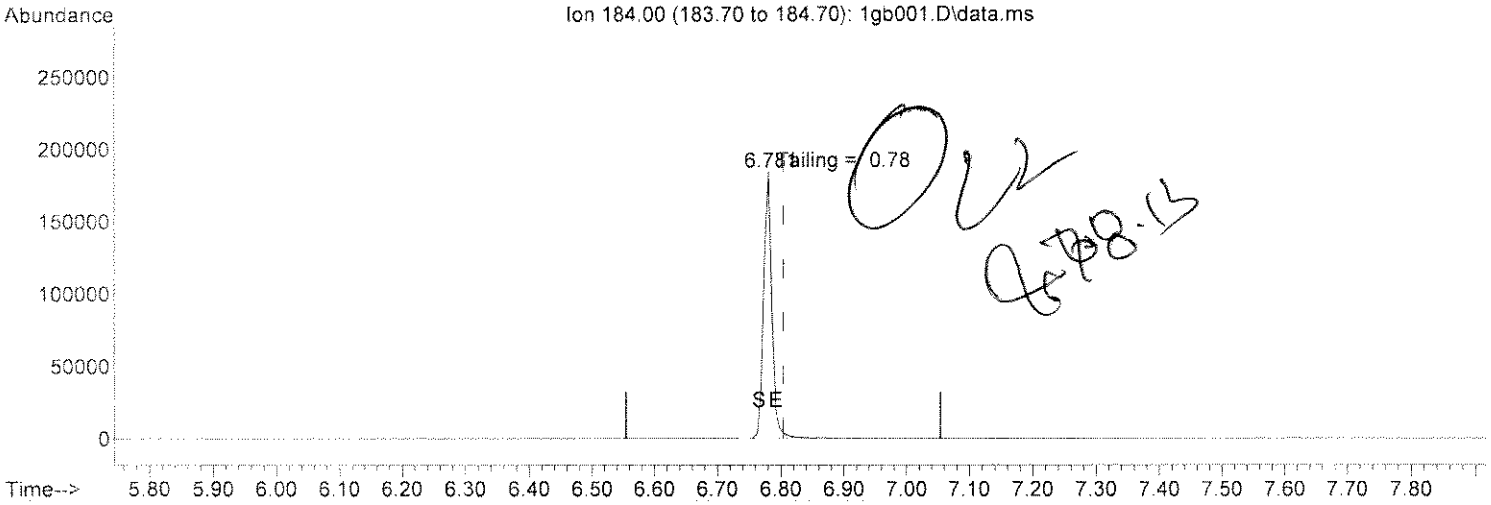
response 36998

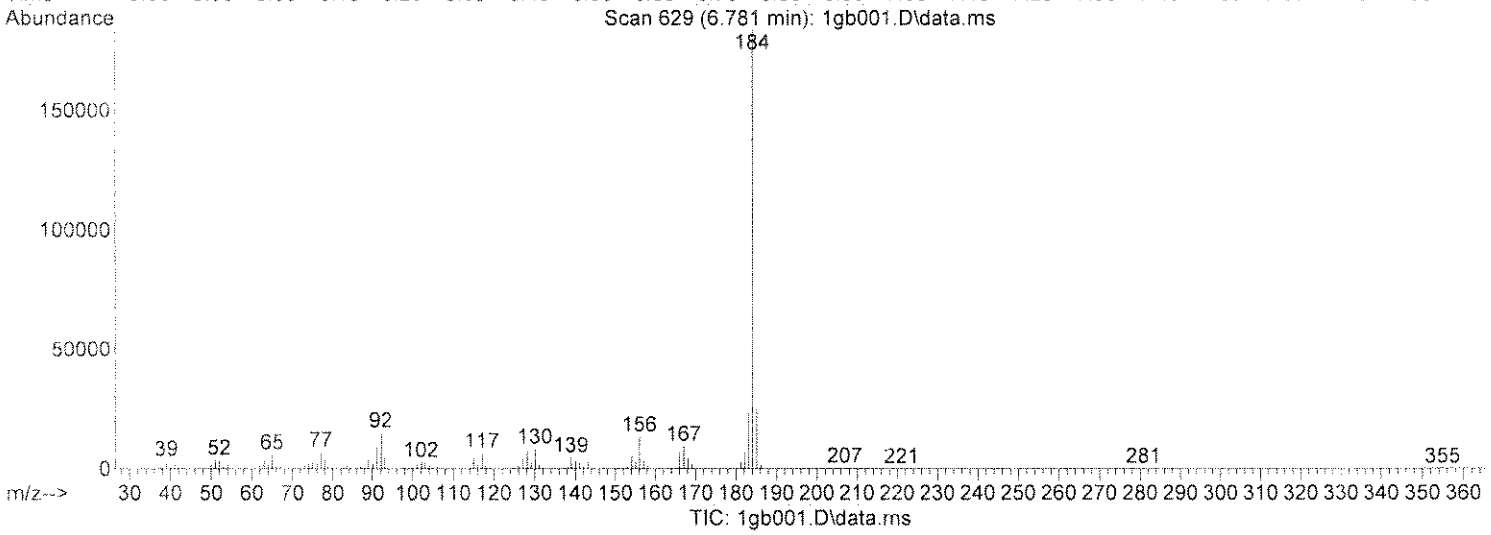
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb001.D
Acq On : 7 Jul 2013 7:26
Operator : jfi
Sample : aa24837-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 07:35:26 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration





(3) Benzidine

6.781min (-0.024) 64.87 ug/ml

response 167475

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb001.D
Acq On : 7 Jul 2013 7:26
Operator : jfi
Sample : aa24837-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 07:35:26 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Pentachlorophenol	5.281	266	36998	52.113 ug/ml	100
2) DFTPP	5.657	198	61646	63.318 ug/ml	100
3) Benzidine	6.781	184	167475	64.868 ug/ml	100
4) DDE	0.000		0	N.D.	
5) DDD	7.310	TIC	45598	21.773 #	90
6) DDT	7.616	TIC	533350	1030.628 ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

$$\frac{45598}{45598 + 533350} \times 100 = 7.9\%$$

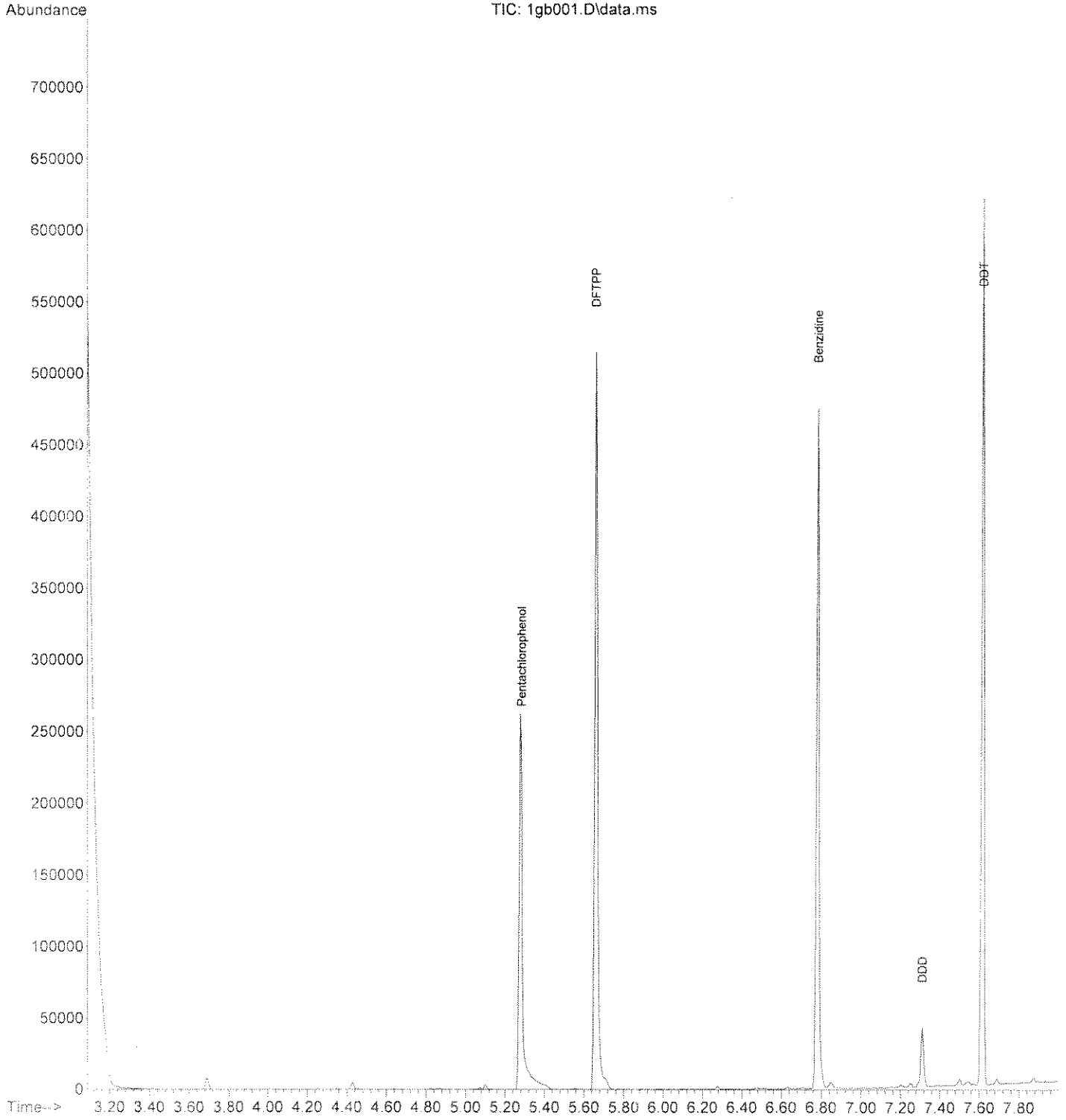
(578948)

<20% DDT DDE 87-8[illegible]

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb001.D
Acq On : 7 Jul 2013 7:26
Operator : jfi
Sample : aa24837-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 07 07:35:26 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 09:27:19 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	377912	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1668128	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	949407	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.506	188	1554631	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	1114395	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.023	264	890269	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	445427	29.90	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 29.90%			
11) Phenol -D5 (acid surr)	6.376	99	447740	24.42	ug/mL	0.00
Spiked Amount 100.000			Recovery = 24.42%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	787006	40.32	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 40.32%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1287919	36.35	ug/mL	0.00
Spiked Amount 100.000			Recovery = 36.35%			
91) 2,4,6-Tribromophenol (...	11.624	330	166184	40.83	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 40.83%			
120) Terphenyl -D14 (b/n surr)	14.490	244	1374629	57.63	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 57.63%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	3.767	79	139	N.D.		
4) 2-Picoline	0.000		0	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	0.000		0	N.D.		
8) 2-Fluorophenol	5.277	112	445427	29.900	ug/mL	94
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	0.000		0	N.D.		
12) Phenol -D5	6.376	99	447740	24.421	ug/mL	86
13) Pentachloroethane	0.000		0	N.D.		
14) aniline	6.516	93	265	N.D.		
15) Phenol	0.000		0	N.D.		
16) Bis(2-chloroethyl)ether	6.516	93	265	N.D.		
17) 2-Chlorophenol	6.606	128	985	N.D.		
18) 1,3-Dichlorobenzene	6.796	146	366	N.D.		
19) 1,4-Dichlorobenzene	6.796	146	366	N.D.		
20) Benzyl Alcohol	6.996	108	502	N.D.		
21) 1,2-Dichlorobenzene	7.076	146	188	N.D.		
22) 2-Methylphenol	7.126	107	103	N.D.		
23) Bis(2-chloroisopropyl)...	7.166	45	356	N.D.		
24) Acetophenone	7.336	105	5421	N.D.		
25) 3 & 4-Methylphenol	7.296	108	85	N.D.		
26) N-Nitrosodi-n-propylamine	7.316	70	92	N.D.		
27) N-Nitrosopyrrolidine	0.000		0	N.D.		
28) N-Nitrosomorpholine	7.276	56	208	N.D.		
29) Hexachloroethane	0.000		0	N.D.		
30) o-Toluidine	7.336	106	606	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	787006	40.321	ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 09:27:19 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	4037	N.D.	
36) N-Nitrosopiperidine	7.816	114	211	N.D.	
37) Isophorone	7.836	82	1409	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.996	122	259	N.D.	
40) Bis(2-chloroethoxy)met...	8.080	93	345	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.360	180	161	N.D.	
45) Naphthalene	8.462	128	1004	N.D.	
46) 4-Chloroaniline	8.499	127	96	N.D.	
47) 2,6-Dichlorophenol	8.518	162	102	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.862	84	73	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	9.076	107	152	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.319	142	401	N.D.	
55) 1-Methylnaphthalene	9.449	142	475	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	1287919	36.352 ug/mL	100
63) Isosafrole	9.933	162	241	N.D.	
64) 2-Chloronaphthalene	9.933	162	241	N.D.	
65) 2-Nitroaniline	0.000		0	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.240	163	286	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	10.454	152	448	N.D.	
71) 3-Nitroaniline	10.641	138	90	N.D.	
72) Acenaphthene	10.678	154	212	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.641	109	2533	N.D.	
76) Dibenzofuran	10.883	168	331	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	544	N.D.	
82) 4-Chlorophenyl phenyl ...	11.303	204	90	N.D.	
83) Fluorene	11.312	166	401	N.D.	
84) Thionazin	0.000		0	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.443	169	331	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 09:27:19 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.443	169	331	N.D.	
90)	DPH (as Azobenzene)	11.503	182	105	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	166184	40.827 ug/mL	97
94)	Sulfotepp	11.624	97	106	N.D.	
95)	Diallate	0.000		0	N.D.	
96)	Phorate	11.855	75	89	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	12.036	284	222	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	12.240	169	93	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	1320	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.587	178	89	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	150	N.D.	
111)	Methyl Parathion	0.000		0	N.D.	
112)	Di-n-butyl phthalate	13.176	149	504	N.D.	
113)	Parathion	0.000		0	N.D.	
114)	4-Nitroquinoline-1-oxide	13.499	190	141	N.D.	
115)	Methapyrilene	13.568	97	100	N.D.	
116)	Isodrin	13.837	193	134	N.D.	
117)	Fluoranthene	14.038	202	185	N.D.	
118)	Benzidine	13.686	184	77	N.D.	
119)	Pyrene	14.329	202	288	N.D.	
121)	Terphenyl -D14	14.490	244	1374629	57.634 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.082	149	82	N.D.	
125)	p-(dimethylamino)azobe...	14.490	225	7051	N.D.	
126)	Chlorobenzilate	14.841	251	77	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.074	228	3241	N.D.	
133)	Bis(2-ethylhexyl)phtha...	16.008	149	12188	N.D.	
134)	Chrysene	16.118	228	287	N.D.	
135)	Di-n-octyl phthalate	17.276	149	21440	N.D.	
136)	Hexachlorophene	19.015	196	580	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.235	256	71	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.904	252	391	N.D.	
142)	3-Methylcholanthrene	19.532	268	611	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	568	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	561	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	496	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 09:27:19 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

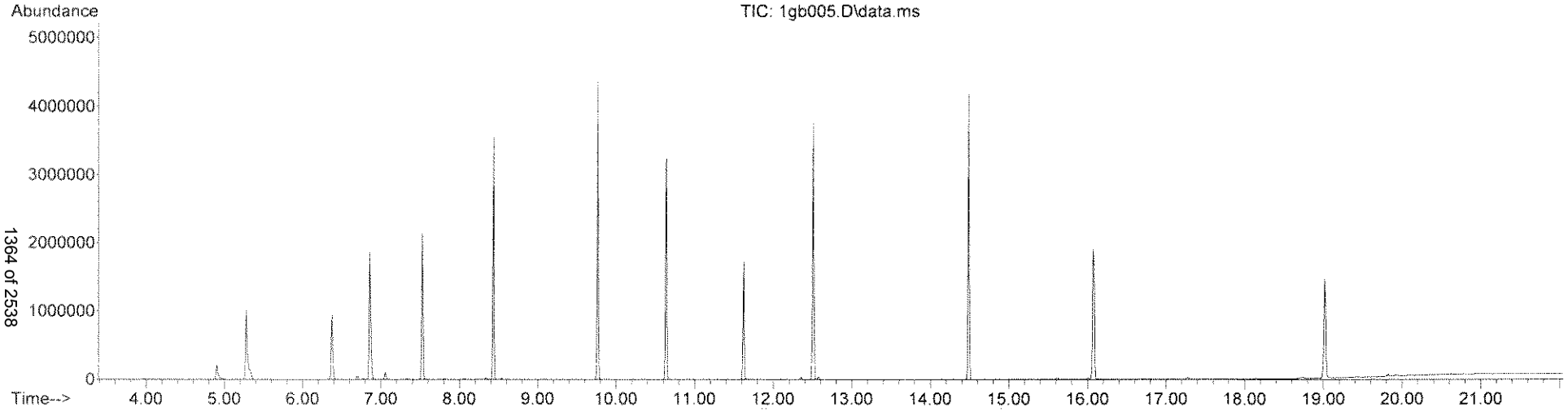
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

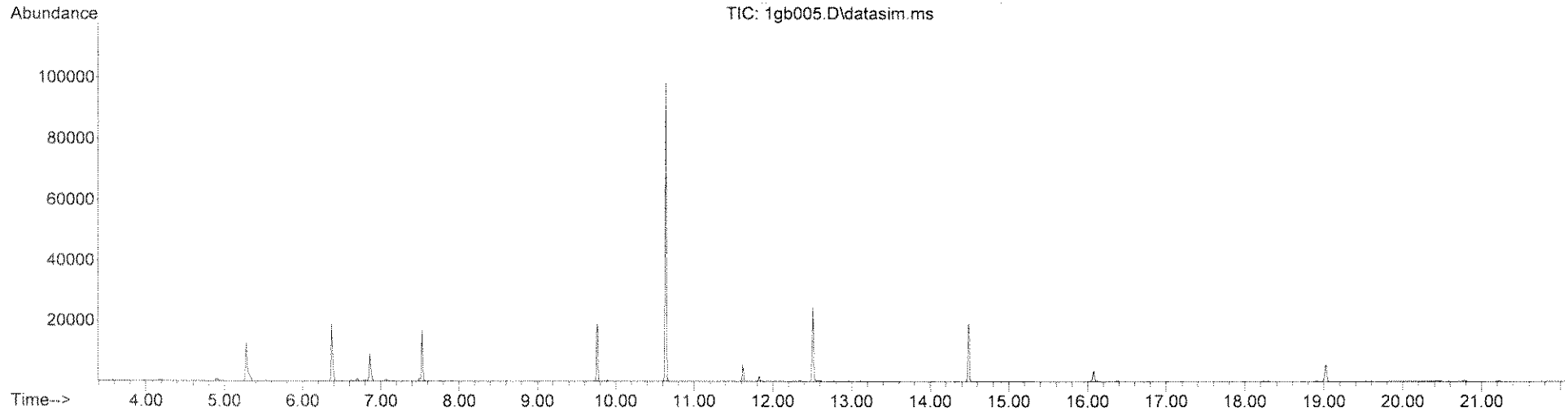
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 09:27:19 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 23:40:55 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

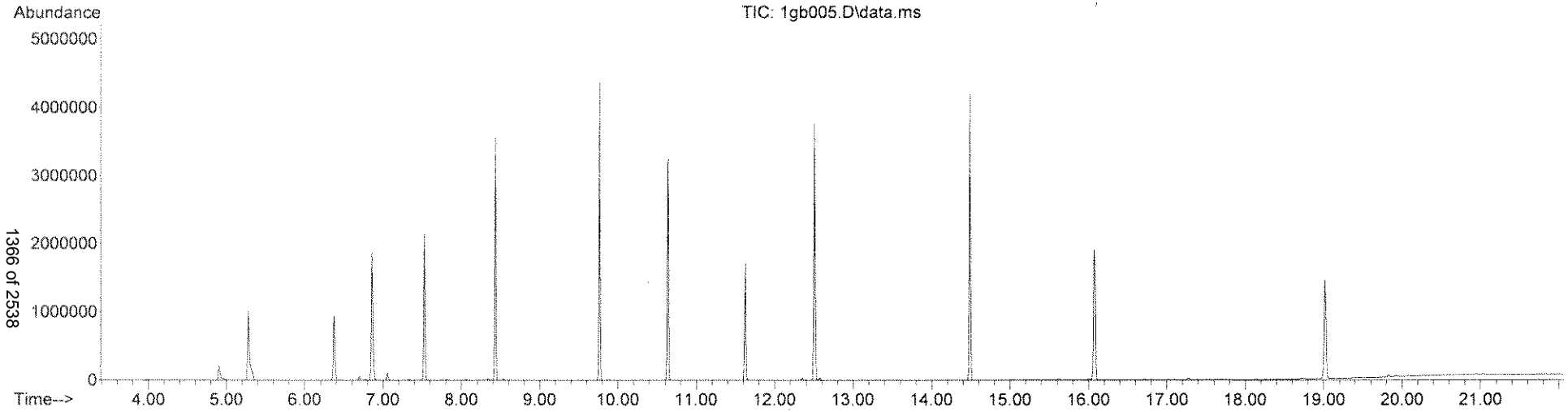
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	377912	40.00 ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1668128	40.00 ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	949407	40.00 ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1554631	40.00 ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	1114395	40.00 ug/mL	-0.06
10) PERYLENE-d12	19.023	264	890269	40.00 ug/mL	-0.05
Target Compounds					Qvalue
2) Benzaldehyde	6.326	106	874	N.D.	
4) Caprolactam	0.000		0	N.D.	
6) 1,1'-Biphenyl	9.896	154	552	N.D.	
7) Atrazine	0.000		0	N.D.	

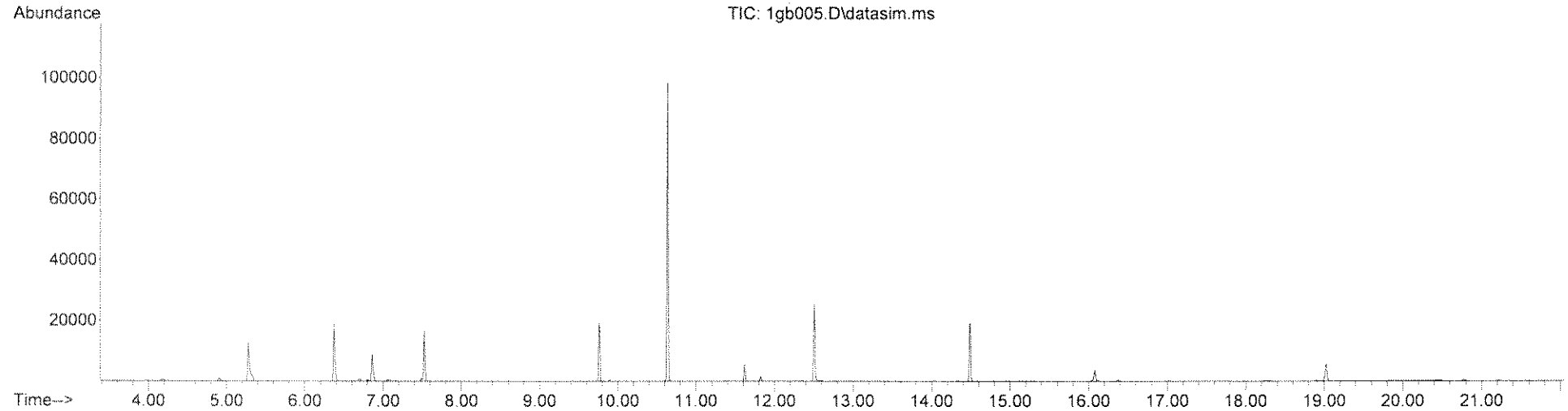
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 07 23:40:55 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb005.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.907	150	153	167	rVB	210101	414252	10.09%	1.163%
2	5.277	187	190	200	rBV	1012853	1778848	43.32%	4.994%
3	6.376	297	300	304	rBV	942257	1331165	32.41%	3.737%
4	6.696	329	332	337	rVB	55574	64957	1.58%	0.182%
5	6.856	345	348	353	rBV	1863357	2509233	61.10%	7.044%
6	7.056	365	368	374	rVB	106135	149470	3.64%	0.420%
7	7.526	412	415	418	rBV	2128219	2345182	57.11%	6.583%
8	8.434	506	509	512	rBV	3556879	3531429	85.99%	9.914%
9	9.765	649	652	655	rBV	4366454	3975414	96.80%	11.160%
10	10.641	742	746	748	rBV	3239525	4024548	98.00%	11.298%
11	11.624	846	849	852	rBV	1711346	1726351	42.04%	4.846%
12	12.506	928	931	934	rBV	3767342	4022683	97.95%	11.293%
13	14.490	1111	1114	1117	rBV	4187951	4106756	100.00%	11.529%
14	16.074	1261	1265	1268	rBV	1889928	3007825	73.24%	8.444%
15	18.743	1517	1527	1533	rBV	21184	76549	1.86%	0.215%
16	19.023	1553	1560	1566	rBV	1442456	2507660	61.06%	7.040%
17	19.828	1651	1655	1658	rBV3	33254	49847	1.21%	0.140%

Sum of corrected areas: 35622169

Signal : TIC: 1gb005.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

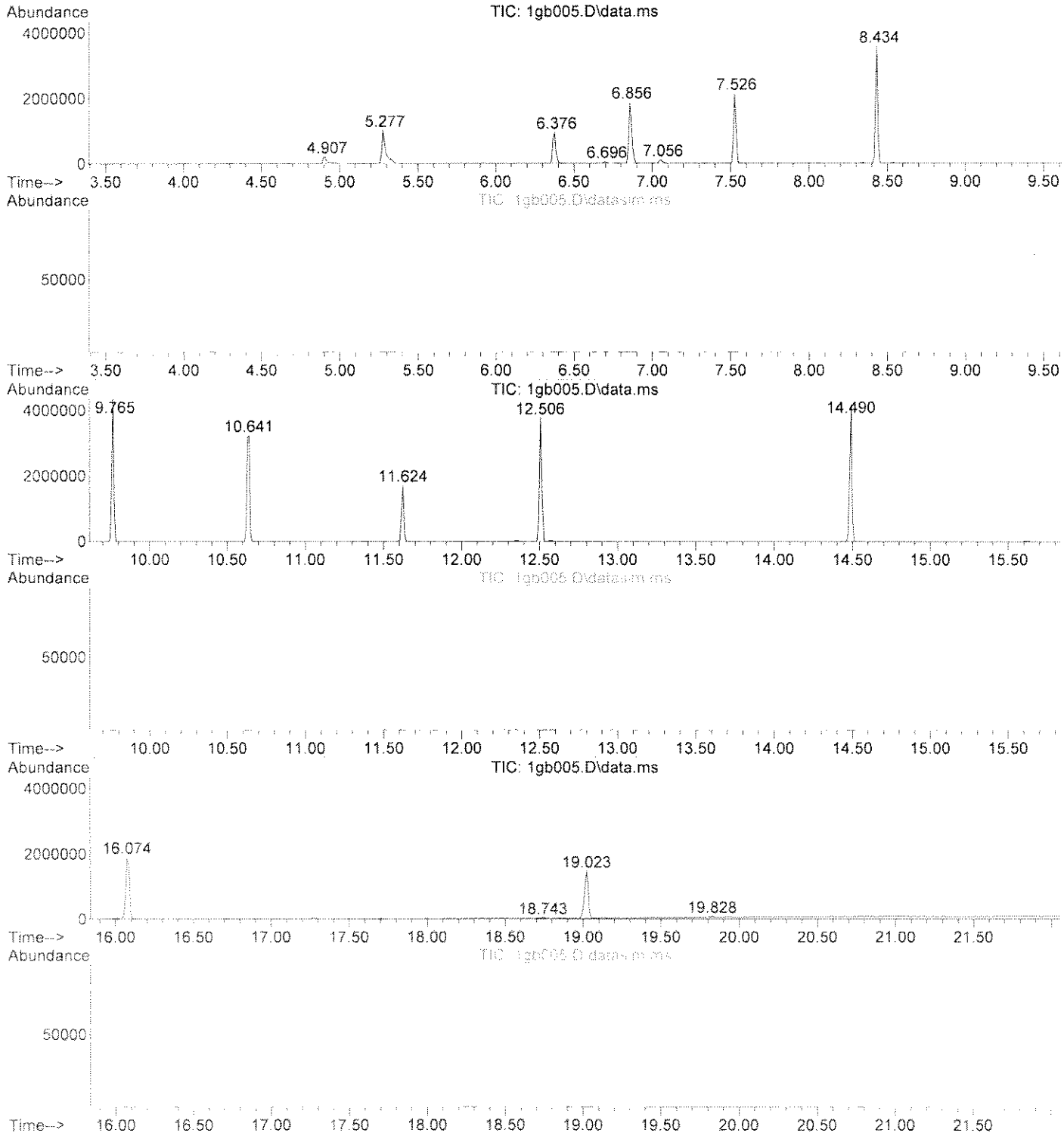
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb005.D
Acq On : 7 Jul 2013 9:04
Operator : jfi
Sample : 3f24010-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb006.D
Acq On : 7 Jul 2013 9:32
Operator : jfi
Sample : 3f24010-bs1
Misc : a3g0061
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 07 09:55:11 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	299045	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1239631	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	684739	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.506	188	1079677	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.085	240	708271	40.00	ug/mL	-0.01
137) PERYLENE-d12	19.023	264	518617	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.287	112	284450	24.13	ug/mL	0.00
Spiked Amount 100.000			Recovery = 24.13%			
11) Phenol -D5 (acid surr)	6.376	99	241841	16.67	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 16.67%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	534198	36.83	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 36.83%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	915633	35.83	ug/mL	0.00
Spiked Amount 100.000			Recovery = 35.83%			
91) 2,4,6-Tribromophenol (...	11.624	330	140021	47.70	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 47.70%			
120) Terphenyl -D14 (b/n surr)	14.490	244	947022	57.17	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 57.17%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.607	74	200922	25.381	ug/mL	79
3) Pyridine	3.637	79	225101	17.550	ug/mL	98
4) 2-Picoline	4.637	93	78	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	4.917	80	107	N.D.		
8) 2-Fluorophenol	5.287	112	284450	24.130	ug/mL	92
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.896	79	107	N.D.		
12) Phenol -D5	6.376	99	241841	16.669	ug/mL	87
13) Pentachloroethane	0.000		0	N.D.		
14) aniline	6.446	93	754	N.D.		
15) Phenol	6.396	94	247858	17.673	ug/mL	90
16) Bis(2-chloroethyl)ether	6.506	93	425228	39.026	ug/mL	86
17) 2-Chlorophenol	6.606	128	418295	36.916	ug/mL	97
18) 1,3-Dichlorobenzene	6.796	146	373341	27.881	ug/mL	100
19) 1,4-Dichlorobenzene	6.876	146	374502	27.554	ug/mL	99
20) Benzyl Alcohol	7.006	108	249004	33.684	ug/mL	92
21) 1,2-Dichlorobenzene	7.076	146	368153	29.223	ug/mL	98
22) 2-Methylphenol	7.136	107	312470	32.700	ug/mL	96
23) Bis(2-chloroisopropyl)...	7.166	45	482420	35.478	ug/mL	94
24) Acetophenone	7.336	105	590088	34.661	ug/mL#	69
25) 3 & 4-Methylphenol	7.316	108	359021	30.293	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.326	70	368790	42.277	ug/mL	98
27) N-Nitrosopyrrolidine	7.306	100	207385	35.385	ug/mL	90
28) N-Nitrosomorpholine	7.326	56	26033	3.254	ug/mL#	49
29) Hexachloroethane	7.496	117	139665	26.003	ug/mL	98
30) o-Toluidine	7.426	106	137	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	534198	36.829	ug/mL	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb006.D
Acq On : 7 Jul 2013 9:32
Operator : jfi
Sample : 3f24010-bs1
Misc : a3g0061
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 07 09:55:11 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.556	77	478751	36.616 ug/mL	94
36) N-Nitrosopiperidine	0.000		0	N.D.	
37) Isophorone	7.836	82	999527	46.622 ug/mL	99
38) 2-Nitrophenol	7.946	139	221248	37.428 ug/mL	90
39) 2,4-Dimethylphenol	7.976	122	409681	38.479 ug/mL	96
40) Bis(2-chloroethoxy)met...	8.089	93	496019	38.338 ug/mL	96
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	8.061	105	190647	25.081 ug/mL#	36
43) 2,4-Dichlorophenol	8.238	162	337030	37.787 ug/mL	99
44) 1,2,4-Trichlorobenzene	8.359	180	302681	27.142 ug/mL	95
45) Naphthalene	8.462	128	1057817	29.868 ug/mL	99
46) 4-Chloroaniline	8.508	127	438584	31.787 ug/mL	100
47) 2,6-Dichlorophenol	8.527	162	312858	34.298 ug/mL	99
48) Hexachloropropene	8.574	213	98	N.D.	
49) Hexachlorobutadiene	8.611	223	105015	24.237 ug/mL	99
50) N-Nitrosodi-n-Butylamine	8.918	84	31564	3.653 ug/mL#	34
51) p-Phenylenediamine	9.002	108	89	N.D.	
52) 4-Chloro-3-methylphenol	9.086	107	444531	43.842 ug/mL	91
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.318	142	684068	29.054 ug/mL	96
55) 1-Methylnaphthalene	9.449	142	607491	22.845 ug/mL	98
56) Hexachlorocyclopentadiene	9.523	237	139023	24.351 ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.533	216	230159	19.936 ug/mL	97
59) 2,4,6-Trichlorophenol	9.663	196	286079	42.796 ug/mL	99
60) 2,4,5-Trichlorophenol	9.709	196	292698	40.368 ug/mL	98
62) 2-Fluorobiphenyl	9.765	172	915633	35.833 ug/mL	100
63) Isosafrole	9.933	162	633357	76.558 ug/mL#	29
64) 2-Chloronaphthalene	9.933	162	633357	30.285 ug/mL	98
65) 2-Nitroaniline	10.045	65	314709	45.334 ug/mL	91
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.249	163	718304	30.148 ug/mL	100
68) m-Dinitrobenzene	10.324	168	102	N.D.	
69) 2,6-Dinitrotoluene	10.333	165	245702	46.564 ug/mL	89
70) Acenaphthylene	10.464	152	1239695	35.659 ug/mL	99
71) 3-Nitroaniline	10.557	138	230317	44.798 ug/mL	98
72) Acenaphthene	10.678	154	814002	35.750 ug/mL	99
73) 2,4-Dinitrophenol	10.678	184	134096	38.999 ug/mL	98
74) Pentachlorobenzene	10.846	250	210	N.D.	
75) 4-Nitrophenol	10.734	109	86069	25.718 ug/mL	95
76) Dibenzofuran	10.893	168	1045689	36.487 ug/mL	95
77) 2,4-Dinitrotoluene	10.846	165	329647	47.287 ug/mL	98
78) 2-Naphthylamine	11.042	143	7113	N.D.	
79) 1-Naphthylamine	11.042	143	7113	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.042	232	262678	46.411 ug/mL	97
81) Diethyl phthalate	11.135	149	1067198	45.216 ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.303	204	458172	39.230 ug/mL	99
83) Fluorene	11.322	166	928412	37.841 ug/mL	99
84) Thionazin	11.238	107	73	N.D.	
85) 5-Nitro-o-toluidine	11.303	152	1200	N.D.	
86) 4-Nitroaniline	11.322	138	244610	47.437 ug/mL	88
87) 2-Methyl-4,6-dinitroph...	11.363	198	190973	47.684 ug/mL	98
88) Diphenylamine/N-Nitros...	11.443	169	758554	39.230 ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb006.D
Acq On : 7 Jul 2013 9:32
Operator : jfi
Sample : 3f24010-bs1
Misc : a3g0061
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 07 09:55:11 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.443	169	758554	19.615 ug/mL	97
90)	DPH (as Azobenzene)	11.503	182	279216	44.718 ug/mL	91
92)	2,4,6-Tribromophenol	11.624	330	140021	47.696 ug/mL	97
94)	Sulfotepp	11.644	97	166	N.D.	
95)	Diallate	11.784	86	427	N.D.	
96)	Phorate	11.784	75	538	N.D.	
97)	4-Bromophenylphenyl ether	11.925	248	267443	38.968 ug/mL	95
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.694	213	112	N.D.	
100)	Hexachlorobenzene	12.036	284	331111	49.403 ug/mL	98
101)	Dimethoate	12.025	87	219	N.D.	
102)	4-Aminobiphenyl	12.263	169	41887	1.869 ug/mL	72
103)	Pentachlorophenol	12.263	266	188894	47.207 ug/mL	98
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	12.263	237	7254	2.587 ug/mL#	26
106)	Phenanthrene	12.540	178	1448195	46.709 ug/mL	99
107)	Disulfoton	12.540	88	117104	10.058 ug/mL#	32
108)	Anthracene	12.610	178	1521281	48.026 ug/mL	99
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.794	167	1346329	53.015 ug/mL	98
111)	Methyl Parathion	12.991	109	115	N.D.	
112)	Di-n-butyl phthalate	13.175	149	1790635	52.313 ug/mL	98
113)	Parathion	13.545	109	253	N.D.	
114)	4-Nitroquinoline-1-oxide	13.545	190	298	N.D.	
115)	Methapyrilene	13.533	97	362	N.D.	
116)	Isodrin	13.857	193	126921	46.671 ug/mL	89
117)	Fluoranthene	14.037	202	1250093	55.728 ug/mL	95
118)	Benzidine	13.857	184	7814	42.410 ug/mL	88
119)	Pyrene	14.339	202	1265090	54.063 ug/mL	94
121)	Terphenyl -D14	14.490	244	947022	57.172 ug/mL	100
122)	Aramite	14.490	185	2539	6.321 ug/mL#	53
123)	Benzylbutyl phthalate	15.102	149	474016	50.047 ug/mL	99
125)	p-(dimethylamino)azobe...	14.691	225	598	N.D.	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.102	212	934	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	15.986	252	300801	47.797 ug/mL	96
132)	Benzo(a)anthracene	16.063	228	1073822	53.526 ug/mL	99
133)	Bis(2-ethylhexyl)phtha...	15.997	149	765779	56.505 ug/mL	99
134)	Chrysene	16.129	228	1028287	56.658 ug/mL	98
135)	Di-n-octyl phthalate	17.276	149	1167348	56.131 ug/mL	99
136)	Hexachlorophene	19.014	196	447	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.252	256	74	N.D.	
139)	Benzo(b)fluoranthene	18.260	252	837662	45.338 ug/mL	97
140)	Benzo(k)fluoranthene	18.311	252	807664	52.132 ug/mL	94
141)	Benzo(a)pyrene	18.921	252	725224	48.426 ug/mL	96
142)	3-Methylcholanthrene	19.557	268	163	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.786	276	761001	55.319 ug/mL	85
144)	Dibenzo(a,h)anthracene	20.795	278	682392	57.435 ug/mL	92
145)	Benzo(g,h,i)perylene	21.234	276	608400	59.244 ug/mL	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb006.D
Acq On : 7 Jul 2013 9:32
Operator : jfi
Sample : 3f24010-bs1
Misc : a3g0061
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 07 09:55:11 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

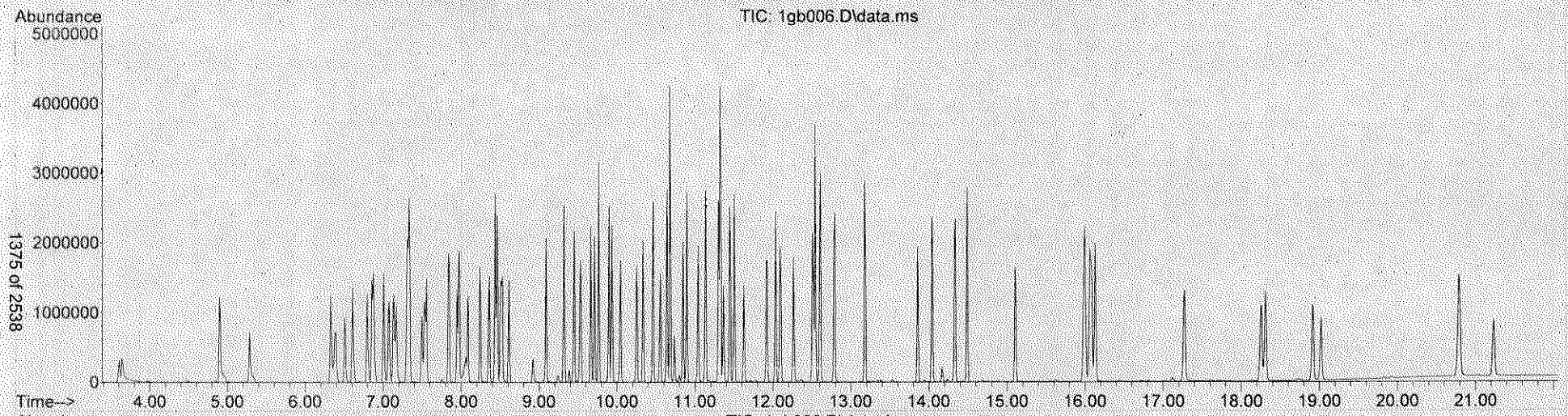
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

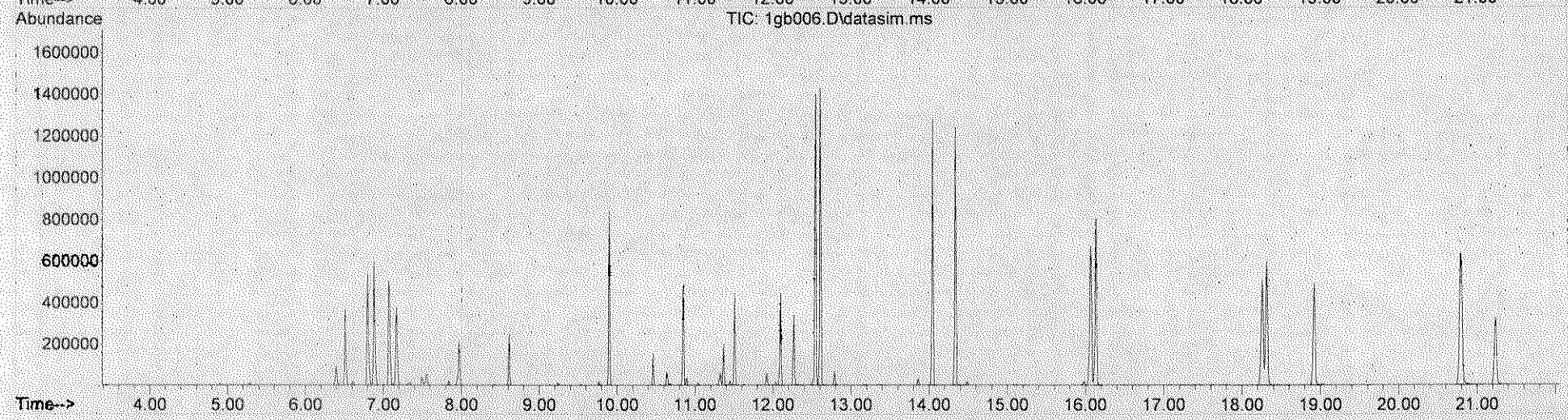
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb006.D
Acq On : 7 Jul 2013 9:32
Operator : jfi
Sample : 3f24010-bs1
Misc : a3g0061
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 07 09:55:11 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb006.D
Acq On : 7 Jul 2013 9:32
Operator : jfi
Sample : 3f24010-bs1
Misc : a3g0061
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 07 23:40:57 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

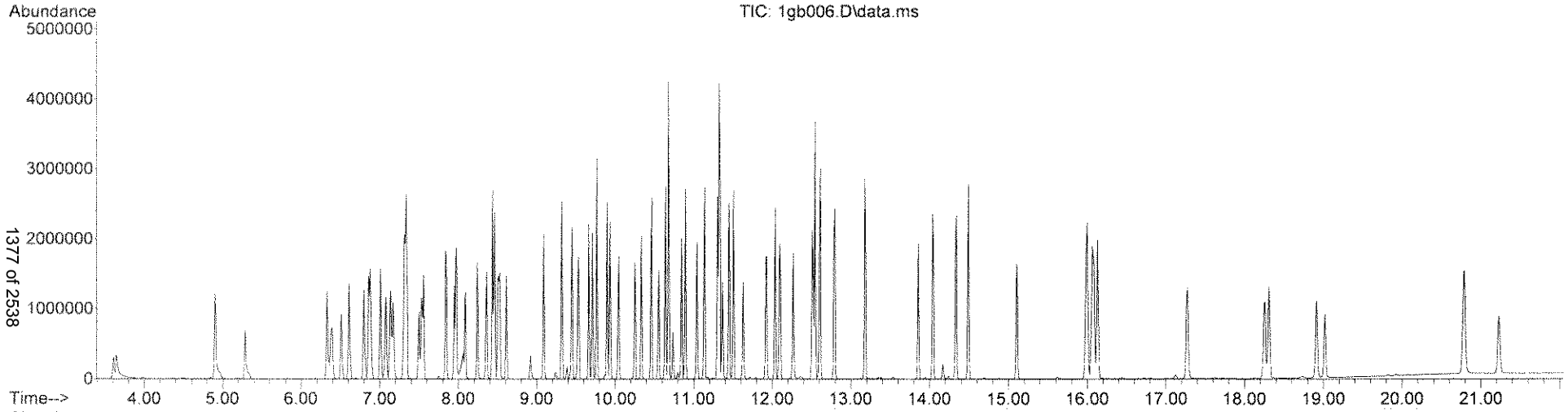
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	299045	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1239631	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	684739	40.00	ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1079677	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.085	240	708271	40.00	ug/mL	-0.04
10) PERYLENE-d12	19.023	264	518617	40.00	ug/mL	-0.05
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	315691	37.338	ug/mL	98
4) Caprolactam	8.918	113	47979	17.958	ug/mL	98
6) 1,1'-Biphenyl	9.896	154	744598	27.355	ug/mL	97
7) Atrazine	12.102	200	330500	56.600	ug/mL	99

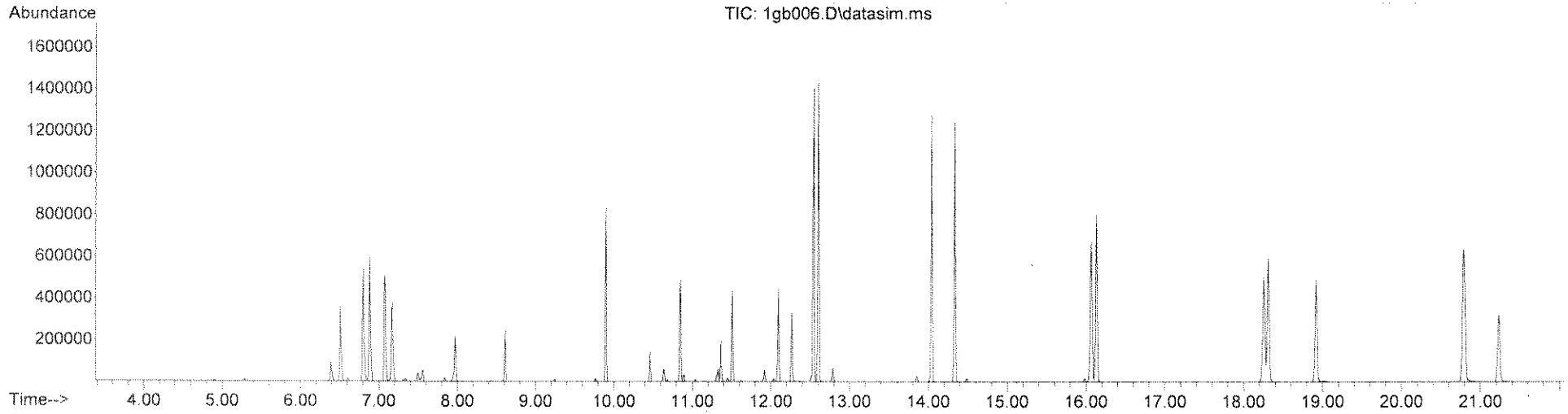
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb006.D
Acq On : 7 Jul 2013 9:32
Operator : jfi
Sample : 3f24010-bs1
Misc : a3g0061
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 07 23:40:57 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb007.D
Acq On : 7 Jul 2013 10:01
Operator : jfi
Sample : 3f24010-bsd1
Misc : a3g0061
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 10:24:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	393817	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1654576	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	918968	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.517	188	1518041	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.085	240	1043420	40.00	ug/mL	-0.01
137) PERYLENE-d12	19.023	264	789239	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.287	112	378219	24.36	ug/mL	0.00
Spiked Amount 100.000			Recovery = 24.36%			
11) Phenol -D5 (acid surr)	6.376	99	324728	17.00	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 17.00%			
33) Nitrobenzene -D5 (b/n ...	7.536	82	712010	36.78	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 36.78%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1183490	34.51	ug/mL	0.00
Spiked Amount 100.000			Recovery = 34.51%			
91) 2,4,6-Tribromophenol (...	11.634	330	183332	46.53	ug/mL	0.00
Spiked Amount 100.000			Recovery = 46.53%			
120) Terphenyl -D14 (b/n surr)	14.490	244	1292007	55.48	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 55.48%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.607	74	271233	26.017	ug/mL	80
3) Pyridine	3.647	79	317240	18.782	ug/mL	98
4) 2-Picoline	4.587	93	157	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	0.000		0	N.D.		
8) 2-Fluorophenol	5.287	112	378219	24.363	ug/mL	92
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.827	79	134	N.D.		
12) Phenol -D5	6.376	99	324728	16.996	ug/mL	87
13) Pentachloroethane	0.000		0	N.D.		
14) aniline	6.456	93	536	N.D.		
15) Phenol	6.396	94	334208	18.095	ug/mL	91
16) Bis(2-chloroethyl)ether	6.516	93	577662	40.258	ug/mL	86
17) 2-Chlorophenol	6.606	128	567777	38.049	ug/mL	97
18) 1,3-Dichlorobenzene	6.796	146	487680	27.656	ug/mL	100
19) 1,4-Dichlorobenzene	6.876	146	500285	27.950	ug/mL	99
20) Benzyl Alcohol	7.006	108	333564	34.264	ug/mL	93
21) 1,2-Dichlorobenzene	7.076	146	488782	29.461	ug/mL	99
22) 2-Methylphenol	7.136	107	427438	33.967	ug/mL	95
23) Bis(2-chloroisopropyl)...	7.166	45	660934	36.909	ug/mL	94
24) Acetophenone	7.346	105	805814	35.942	ug/mL#	68
25) 3 & 4-Methylphenol	7.316	108	485949	31.135	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.336	70	513618	44.711	ug/mL	97
27) N-Nitrosopyrrolidine	7.306	100	280571	37.379	ug/mL	90
28) N-Nitrosomorpholine	7.336	56	35963	3.413	ug/mL#	49
29) Hexachloroethane	7.496	117	185519	26.229	ug/mL	99
30) o-Toluidine	7.336	106	63238	2.541	ug/mL#	1
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.536	82	712010	36.777	ug/mL	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb007.D
Acq On : 7 Jul 2013 10:01
Operator : jfi
Sample : 3f24010-bsd1
Misc : a3g0061
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 10:24:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.556	77	634342	36.349 ug/mL	93
36) N-Nitrosopiperidine	7.816	114	315	N.D.	
37) Isophorone	7.846	82	1324889	46.300 ug/mL	99
38) 2-Nitrophenol	7.946	139	303587	38.477 ug/mL	90
39) 2,4-Dimethylphenol	7.976	122	562421	39.577 ug/mL	95
40) Bis(2-chloroethoxy)met...	8.089	93	696224	40.317 ug/mL	96
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	8.071	105	271486	26.759 ug/mL#	38
43) 2,4-Dichlorophenol	8.248	162	468073	39.318 ug/mL	99
44) 1,2,4-Trichlorobenzene	8.360	180	406370	27.301 ug/mL	95
45) Naphthalene	8.462	128	1445865	30.586 ug/mL	99
46) 4-Chloroaniline	8.508	127	599714	32.565 ug/mL	99
47) 2,6-Dichlorophenol	8.527	162	439383	36.089 ug/mL	100
48) Hexachloropropene	8.574	213	208	N.D.	
49) Hexachlorobutadiene	8.611	223	144224	24.939 ug/mL	99
50) N-Nitrosodi-n-Butylamine	8.844	84	70	N.D.	
51) p-Phenylenediamine	8.983	108	70	N.D.	
52) 4-Chloro-3-methylphenol	9.086	107	576469	42.597 ug/mL	91
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.318	142	930475	29.609 ug/mL	97
55) 1-Methylnaphthalene	9.449	142	819984	23.103 ug/mL	98
56) Hexachlorocyclopentadiene	9.523	237	193757	25.427 ug/mL	98
58) 1,2,4,5-Tetrachloroben...	9.533	216	316680	20.439 ug/mL	98
59) 2,4,6-Trichlorophenol	9.663	196	369164	41.149 ug/mL	98
60) 2,4,5-Trichlorophenol	9.709	196	395047	40.597 ug/mL	98
62) 2-Fluorobiphenyl	9.765	172	1183490	34.510 ug/mL	99
63) Isosafrole	9.793	162	96	N.D.	
64) 2-Chloronaphthalene	9.933	162	830406	29.587 ug/mL	98
65) 2-Nitroaniline	10.045	65	398485	42.771 ug/mL	91
66) 1,4-Naphthoquinone	10.259	158	71	N.D.	
67) Dimethyl phthalate	10.259	163	903705	28.262 ug/mL	99
68) m-Dinitrobenzene	10.333	168	203	N.D.	
69) 2,6-Dinitrotoluene	10.333	165	313894	44.325 ug/mL	88
70) Acenaphthylene	10.464	152	1625678	34.843 ug/mL	99
71) 3-Nitroaniline	10.557	138	285423	41.366 ug/mL	96
72) Acenaphthene	10.678	154	1075379	35.192 ug/mL	100
73) 2,4-Dinitrophenol	10.678	184	187700	40.412 ug/mL	91
74) Pentachlorobenzene	10.846	250	212	N.D.	
75) 4-Nitrophenol	10.734	109	111891	24.912 ug/mL	96
76) Dibenzofuran	10.893	168	1345330	34.978 ug/mL	96
77) 2,4-Dinitrotoluene	10.846	165	420970	44.996 ug/mL	96
78) 2-Naphthylamine	11.042	143	9819	N.D.	
79) 1-Naphthylamine	11.042	143	9819	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.042	232	335864	44.217 ug/mL	97
81) Diethyl phthalate	11.135	149	1326890	41.890 ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.303	204	602107	38.414 ug/mL	97
83) Fluorene	11.322	166	1205225	36.603 ug/mL	100
84) Thionazin	11.228	107	256	N.D.	
85) 5-Nitro-o-toluidine	11.238	152	110	N.D.	
86) 4-Nitroaniline	11.332	138	313362	45.280 ug/mL	89
87) 2-Methyl-4,6-dinitroph...	11.373	198	257329	47.875 ug/mL	98
88) Diphenylamine/N-Nitros...	11.453	169	977159	37.655 ug/mL	98

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb007.D
Acq On : 7 Jul 2013 10:01
Operator : jfi
Sample : 3f24010-bsd1
Misc : a3g0061
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 10:24:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.453	169	977159	18.828 ug/mL	98
90)	DPH (as Azobenzene)	11.503	182	358725	42.808 ug/mL	91
92)	2,4,6-Tribromophenol	11.634	330	183332	46.532 ug/mL	96
94)	Sulfotepp	11.624	97	193	N.D.	
95)	Diallate	11.784	86	727	N.D.	
96)	Phorate	11.784	75	926	N.D.	
97)	4-Bromophenylphenyl ether	11.925	248	359430	37.248 ug/mL	95
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.704	213	132	N.D.	
100)	Hexachlorobenzene	12.036	284	419664	44.534 ug/mL	98
101)	Dimethoate	12.102	87	25758	2.498 ug/mL#	21
102)	4-Aminobiphenyl	12.264	169	53659	1.703 ug/mL	70
103)	Pentachlorophenol	12.264	266	264684	47.046 ug/mL	99
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	12.264	237	10455	2.651 ug/mL#	22
106)	Phenanthrene	12.541	178	1884574	43.231 ug/mL	99
107)	Disulfoton	12.541	88	149744	9.147 ug/mL#	34
108)	Anthracene	12.610	178	2002216	44.956 ug/mL	99
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.795	167	1801180	50.445 ug/mL	98
111)	Methyl Parathion	0.000		0	N.D.	
112)	Di-n-butyl phthalate	13.175	149	2410937	50.096 ug/mL	98
113)	Parathion	13.383	109	87	N.D.	
114)	4-Nitroquinoline-1-oxide	13.510	190	94	N.D.	
115)	Methapyrilene	13.533	97	456	N.D.	
116)	Isodrin	13.857	193	168996	44.197 ug/mL	90
117)	Fluoranthene	14.048	202	1695940	53.771 ug/mL	94
118)	Benzidine	13.857	184	10489	40.489 ug/mL	89
119)	Pyrene	14.339	202	1734148	52.708 ug/mL	95
121)	Terphenyl -D14	14.490	244	1292007	55.475 ug/mL	100
122)	Aramite	14.490	185	3529	6.249 ug/mL#	57
123)	Benzylbutyl phthalate	15.103	149	648504	48.698 ug/mL	98
125)	p-(dimethylamino)azobe...	14.691	225	1089	N.D.	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.113	212	511	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.490	181	87	N.D.	
131)	3,3'-Dichlorobenzidine	15.986	252	419451	45.242 ug/mL	98
132)	Benzo(a)anthracene	16.063	228	1459125	49.370 ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	15.997	149	1063144	53.249 ug/mL	99
134)	Chrysene	16.129	228	1393050	52.102 ug/mL	98
135)	Di-n-octyl phthalate	17.276	149	1636015	53.399 ug/mL	100
136)	Hexachlorophene	19.023	196	611	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.235	256	78	N.D.	
139)	Benzo(b)fluoranthene	18.260	252	1153677	41.031 ug/mL	96
140)	Benzo(k)fluoranthene	18.319	252	1156896	49.069 ug/mL	96
141)	Benzo(a)pyrene	18.921	252	1003778	44.044 ug/mL	96
142)	3-Methylcholanthrene	19.540	268	386	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.786	276	1035519	49.464 ug/mL	82
144)	Dibenzo(a,h)anthracene	20.805	278	940128	51.995 ug/mL	90
145)	Benzo(g,h,i)perylene	21.243	276	817136	52.286 ug/mL	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb007.D
Acq On : 7 Jul 2013 10:01
Operator : jfi
Sample : 3f24010-bsd1
Misc : a3g0061
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 10:24:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

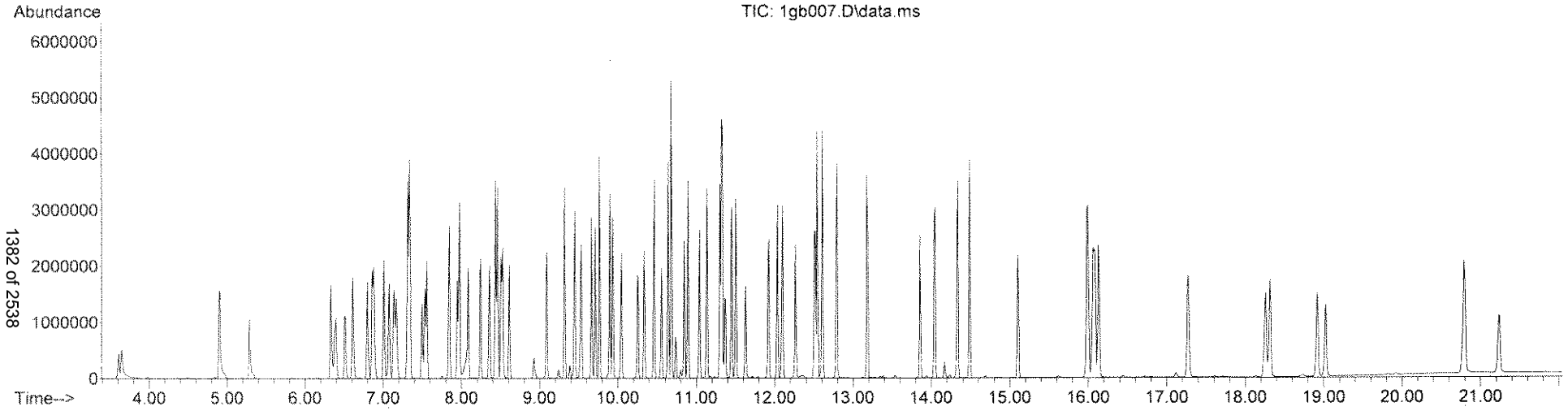
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

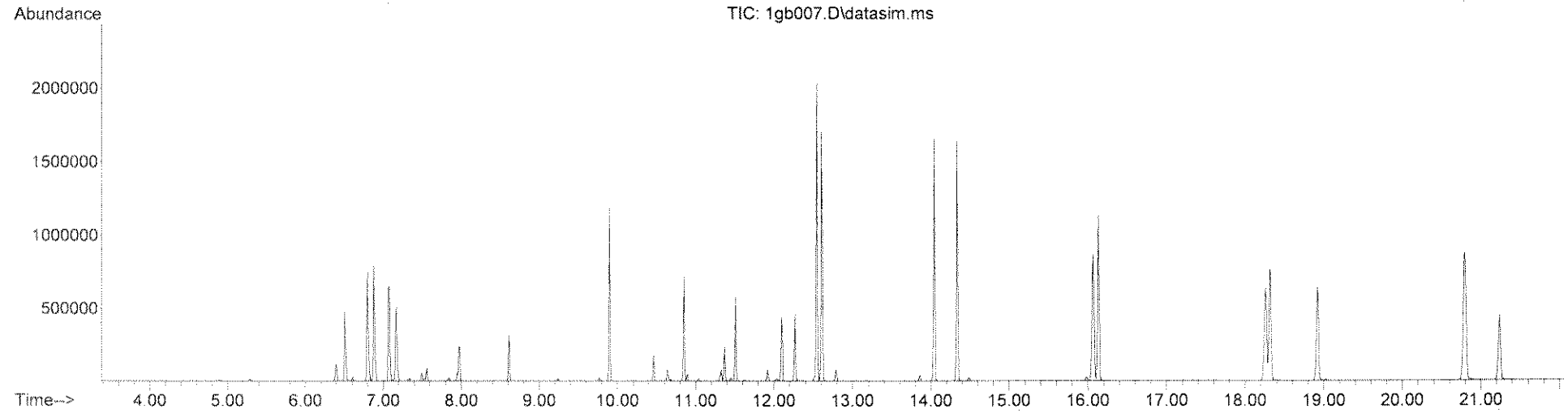
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb007.D
Acq On : 7 Jul 2013 10:01
Operator : jfi
Sample : 3f24010-bsd1
Misc : a3g0061
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 10:24:20 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb007.D
Acq On : 7 Jul 2013 10:01
Operator : jfi
Sample : 3f24010-bsd1
Misc : a3g0061
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 23:40:59 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

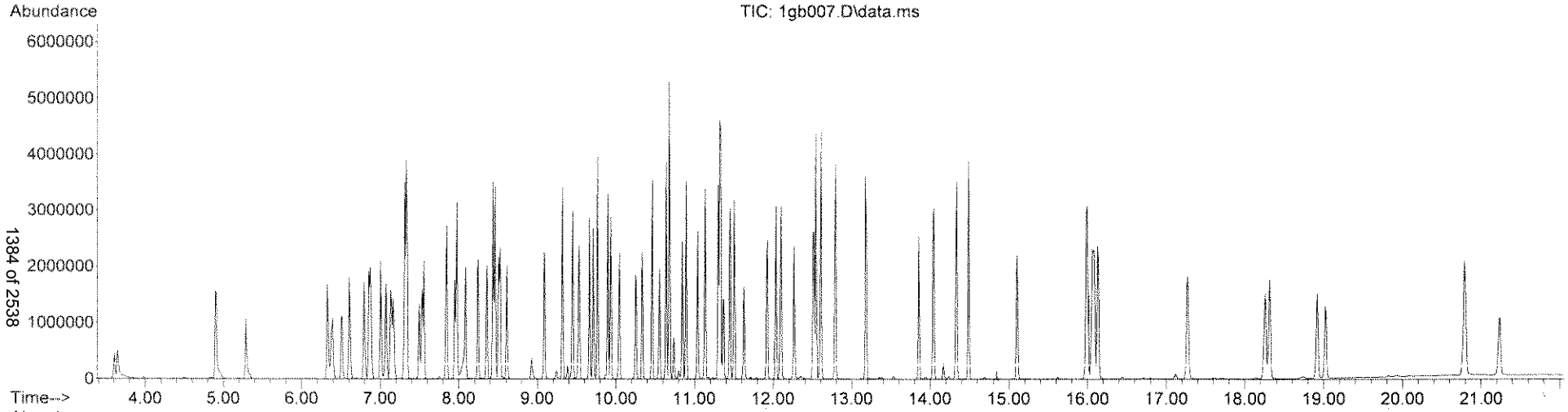
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	393817	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1654576	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	918968	40.00	ug/mL	-0.03
8) PHENANTHRENE-d10	12.517	188	1518041	40.00	ug/mL	-0.02
9) CHRYSENE-d12	16.085	240	1043420	40.00	ug/mL	-0.04
10) PERYLENE-d12	19.023	264	789239	40.00	ug/mL	-0.05
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	424445	38.120	ug/mL	98
4) Caprolactam	8.927	113	60884	17.073	ug/mL	98
6) 1,1'-Biphenyl	9.896	154	993759	27.203	ug/mL	97
7) Atrazine	12.102	200	439168	56.041	ug/mL	99

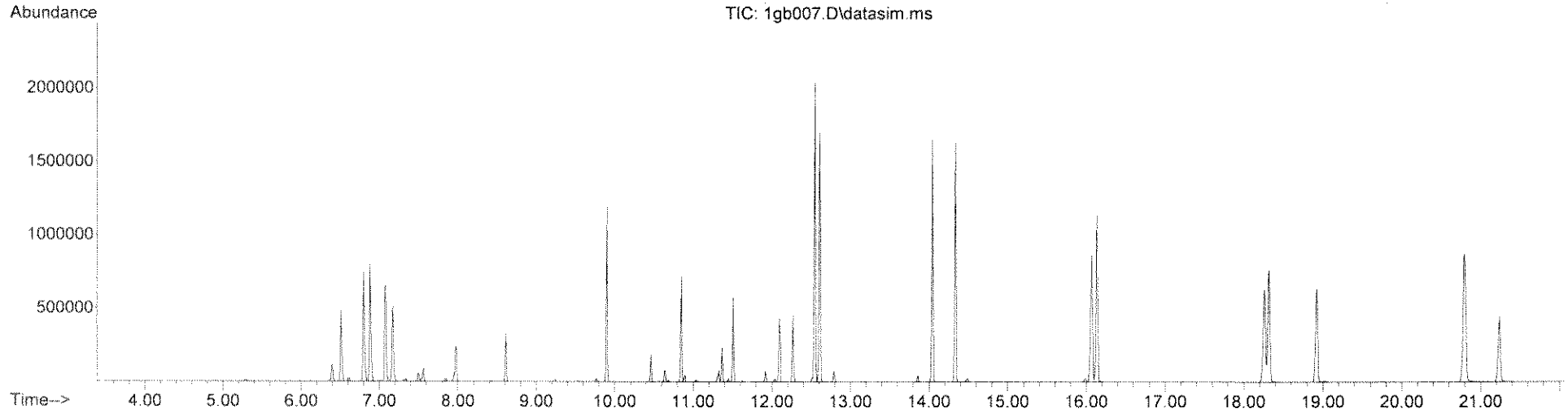
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb007.D
Acq On : 7 Jul 2013 10:01
Operator : jfi
Sample : 3f24010-bsd1
Misc : a3g0061
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 23:40:59 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 16:34:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	330502	40.00 ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1374160	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.631	164	744900	40.00 ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1239804	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	838702	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.014	264	621690	40.00 ug/mL	-0.03
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.277	112	113576	8.72 ug/mL	-0.01
Spiked Amount 100.000			Recovery	= 8.72%	
11) Phenol -D5 (acid surr)	6.366	99	131932	8.23 ug/mL	-0.02
Spiked Amount 100.000			Recovery	= 8.23%	
33) Nitrobenzene -D5 (b/n ...	7.526	82	610998	38.00 ug/mL	-0.02
Spiked Amount 100.000			Recovery	= 38.00%	
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1097670	39.49 ug/mL	0.00
Spiked Amount 100.000			Recovery	= 39.49%	
91) 2,4,6-Tribromophenol (...	11.624	330	59642	18.68 ug/mL	-0.01
Spiked Amount 100.000			Recovery	= 18.68%	
120) Terphenyl -D14 (b/n surr)	14.490	244	1203355	63.26 ug/mL	-0.01
Spiked Amount 100.000			Recovery	= 63.26%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.627	74	283	N.D.	
3) Pyridine	3.677	79	694	N.D.	
4) 2-Picoline	0.000		0	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	4.977	80	144	N.D.	
8) 2-Fluorophenol	5.277	112	113576	8.718 ug/mL	94
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.897	79	114	N.D.	
12) Phenol -D5	6.366	99	131932	8.228 ug/mL	88
13) Pentachloroethane	0.000		0	N.D.	
14) aniline	6.506	93	1093	N.D.	
15) Phenol	0.000		0	N.D.	
16) Bis(2-chloroethyl)ether	6.506	93	1584	N.D.	
17) 2-Chlorophenol	6.606	128	1139	N.D.	
18) 1,3-Dichlorobenzene	6.796	146	983	N.D.	
19) 1,4-Dichlorobenzene	6.796	146	983	N.D.	
20) Benzyl Alcohol	7.006	108	709	N.D.	
21) 1,2-Dichlorobenzene	7.066	146	803	N.D.	
22) 2-Methylphenol	7.126	107	839	N.D.	
23) Bis(2-chloroisopropyl)...	7.166	45	1409	N.D.	
24) Acetophenone	7.336	105	1962	N.D.	
25) 3 & 4-Methylphenol	7.306	108	733	N.D.	
26) N-Nitrosodi-n-propylamine	7.326	70	978	N.D.	
27) N-Nitrosopyrrolidine	7.296	100	251	N.D.	
28) N-Nitrosomorpholine	7.396	56	762	N.D.	
29) Hexachloroethane	7.496	117	283	N.D.	
30) o-Toluidine	7.326	106	79	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.526	82	610998	38.000 ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 16:34:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	3486	N.D.	
36) N-Nitrosopiperidine	7.816	114	142	N.D.	
37) Isophorone	7.836	82	2422	N.D.	
38) 2-Nitrophenol	7.946	139	427	N.D.	
39) 2,4-Dimethylphenol	7.996	122	1991	N.D.	
40) Bis(2-chloroethoxy)met...	8.080	93	1093	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	8.238	162	674	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	818	N.D.	
45) Naphthalene	8.462	128	3601	N.D.	
46) 4-Chloroaniline	8.499	127	445	N.D.	
47) 2,6-Dichlorophenol	8.518	162	553	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	8.611	223	124	N.D.	
50) N-Nitrosodi-n-Butylamine	8.918	84	88	N.D.	
51) p-Phenylenediamine	9.048	108	76	N.D.	
52) 4-Chloro-3-methylphenol	9.086	107	364	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.318	142	1602	N.D.	
55) 1-Methylnaphthalene	9.439	142	1321	N.D.	
56) Hexachlorocyclopentadiene	9.523	237	85	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.533	216	211	N.D.	
59) 2,4,6-Trichlorophenol	9.663	196	394	N.D.	
60) 2,4,5-Trichlorophenol	9.700	196	486	N.D.	
62) 2-Fluorobiphenyl	9.765	172	1097670	39.488 ug/mL	99
63) Isosafrole	9.933	162	1430	N.D.	
64) 2-Chloronaphthalene	9.933	162	1430	N.D.	
65) 2-Nitroaniline	10.035	65	228	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.240	163	911	N.D.	
68) m-Dinitrobenzene	10.231	168	101	N.D.	
69) 2,6-Dinitrotoluene	10.324	165	223	N.D.	
70) Acenaphthylene	10.454	152	2800	N.D.	
71) 3-Nitroaniline	10.538	138	72	N.D.	
72) Acenaphthene	10.669	154	1235	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D. d	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.743	109	174	N.D.	
76) Dibenzofuran	10.893	168	1588	N.D.	
77) 2,4-Dinitrotoluene	10.837	165	133	N.D.	
78) 2-Naphthylamine	11.116	143	75	N.D.	
79) 1-Naphthylamine	11.116	143	75	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.033	232	347	N.D.	
81) Diethyl phthalate	11.126	149	1802	N.D.	
82) 4-Chlorophenyl phenyl ...	11.303	204	697	N.D.	
83) Fluorene	11.322	166	1598	N.D.	
84) Thionazin	11.275	107	383	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	11.303	138	301	N.D.	
87) 2-Methyl-4,6-dinitroph...	11.353	198	80	N.D.	
88) Diphenylamine/N-Nitros...	11.443	169	717	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 16:34:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.443	169	717	N.D.	
90)	DPH (as Azobenzene)	11.503	182	352	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	59642	18.675 ug/mL	95
94)	Sulfotepp	11.634	97	263	N.D.	
95)	Diallate	0.000		0	N.D.	
96)	Phorate	11.915	75	247	N.D.	
97)	4-Bromophenylphenyl ether	11.915	248	398	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	12.036	284	170	N.D.	
101)	Dimethoate	12.090	87	129	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	12.263	266	748	N.D.	
104)	Pronamide	12.240	173	108	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.541	178	2890	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.598	178	2493	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	1789	N.D.	
111)	Methyl Parathion	12.968	109	931	N.D.	
112)	Di-n-butyl phthalate	13.175	149	4519	N.D.	
113)	Parathion	13.360	109	587	N.D.	
114)	4-Nitroquinoline-1-oxide	13.372	190	101	N.D.	
115)	Methapyrilene	13.568	97	1023	N.D.	
116)	Isodrin	13.857	193	195	N.D.	
117)	Fluoranthene	14.038	202	1648	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	1880	N.D.	
121)	Terphenyl -D14	14.490	244	1203355	63.265 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.092	149	731	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	14.801	251	84	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.123	212	78	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.545	181	94	N.D.	
131)	3,3'-Dichlorobenzidine	15.975	252	769	N.D.	
132)	Benzo(a)anthracene	16.052	228	5496	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	142923	8.906 ug/mL	96
134)	Chrysene	16.118	228	2873	N.D.	
135)	Di-n-octyl phthalate	17.276	149	11945	N.D.	
136)	Hexachlorophene	19.023	196	313	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	18.235	252	3788	N.D.	
140)	Benzo(k)fluoranthene	18.302	252	3409	N.D.	
141)	Benzo(a)pyrene	18.904	252	3452	N.D.	
142)	3-Methylcholanthrene	19.464	268	136	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	3189	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	2822	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	3247	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 16:34:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

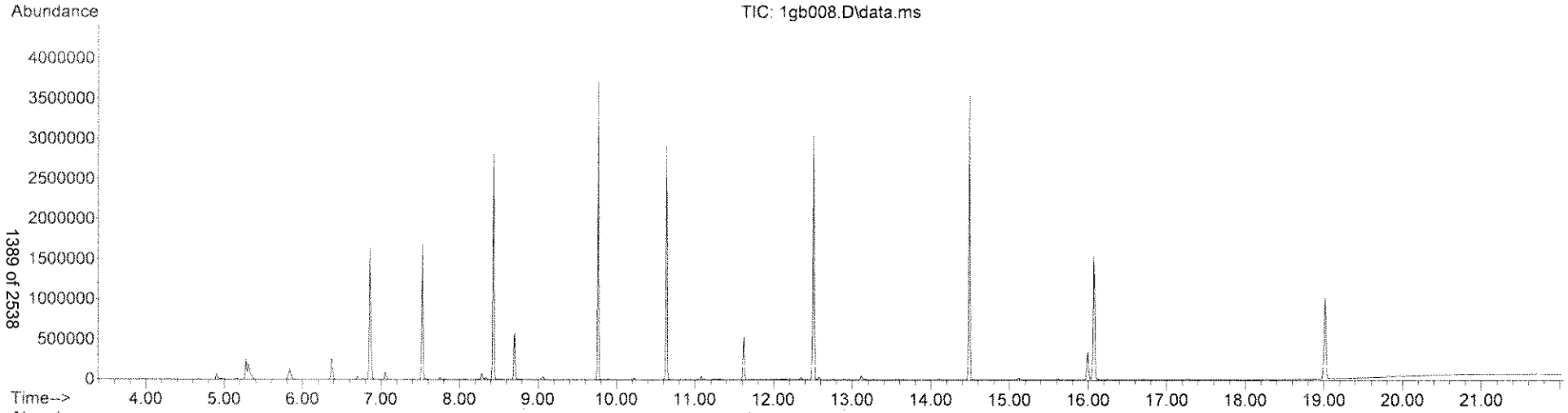
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

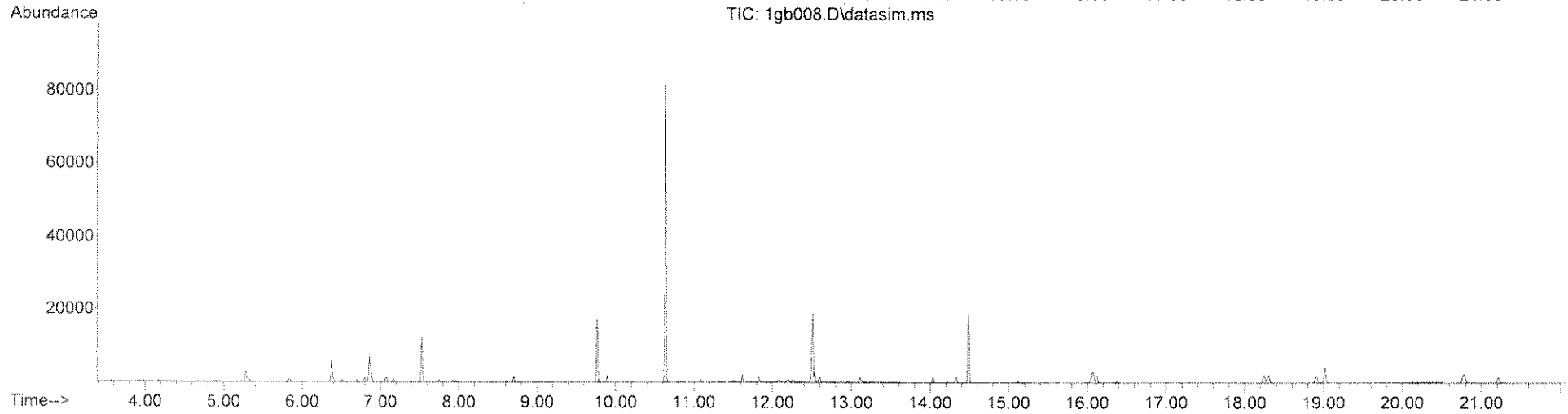
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 16:34:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 23:41:01 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

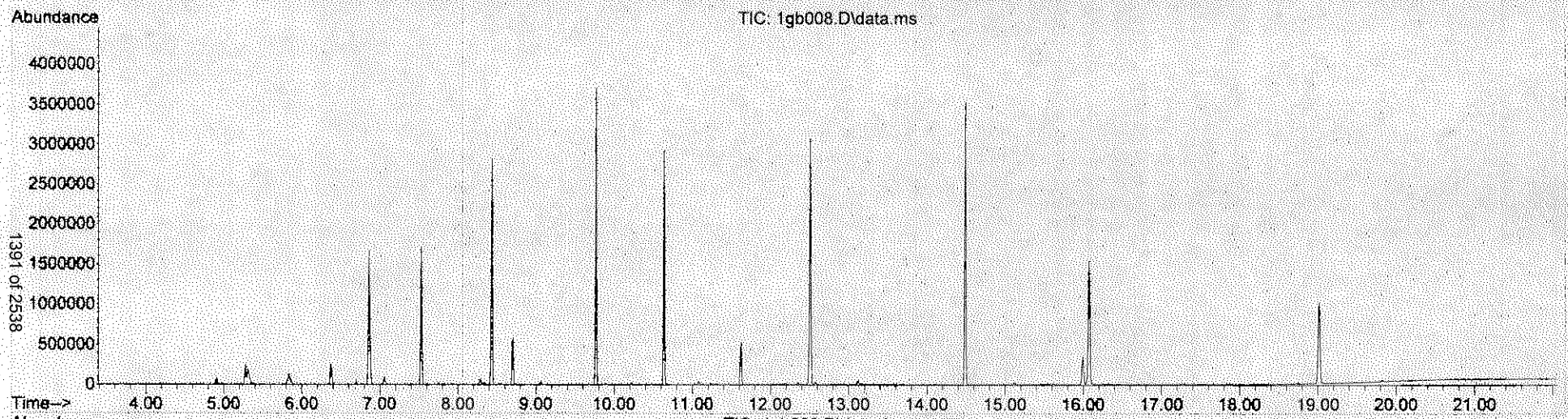
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	330502	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1374160	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.631	164	744900	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1239804	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	838702	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.014	264	621690	40.00	ug/mL	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	1287	N.D.		
4) Caprolactam	8.890	113	84	N.D.		
6) 1,1'-Biphenyl	9.896	154	1608	N.D.		
7) Atrazine	12.079	200	400	N.D.		

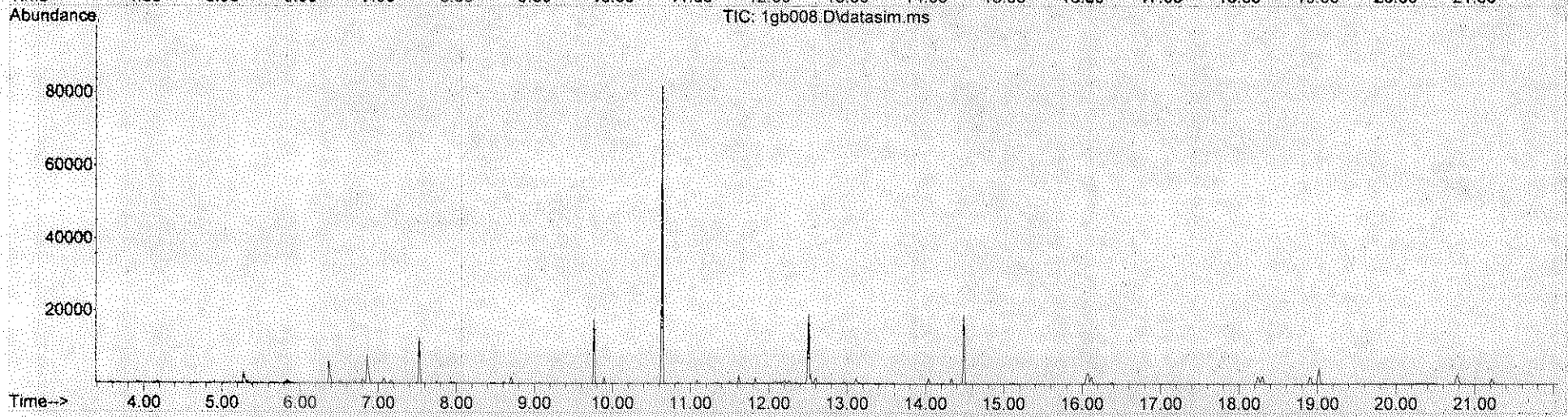
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 23:41:01 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb008.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.907	150	153	157	rBV	63151	113954	3.19%	0.402%
2	5.277	187	190	192	rBV	253661	355374	9.95%	1.253%
3	5.307	192	193	204	rVB	193522	381428	10.68%	1.344%
4	5.837	241	246	258	rBV2	131294	298331	8.36%	1.052%
5	6.366	297	299	305	rVB	256953	406272	11.38%	1.432%
6	6.696	329	332	336	rVB	44154	52599	1.47%	0.185%
7	6.856	345	348	353	rBV	1664736	2222215	62.24%	7.832%
8	7.056	365	368	372	rVB	92368	134114	3.76%	0.473%
9	7.526	412	415	418	rBV	1692417	1820445	50.99%	6.416%
10	8.285	490	493	497	rBV2	70968	109936	3.08%	0.387%
11	8.434	506	509	512	rBV	2818514	2960648	82.92%	10.435%
12	8.704	535	538	541	rBV	574198	703554	19.71%	2.480%
13	9.058	572	576	579	rBV2	35902	67268	1.88%	0.237%
14	9.765	649	652	655	rVB	3707936	3415659	95.67%	12.039%
15	10.631	742	745	748	rBV	2917032	3194667	89.48%	11.260%
16	11.079	791	793	796	rBV	43859	47043	1.32%	0.166%
17	11.624	846	849	851	rBV	523263	609665	17.08%	2.149%
18	12.506	928	931	934	rBV	3055942	3213055	89.99%	11.325%
19	13.118	981	984	987	rBV2	48114	73819	2.07%	0.260%
20	14.490	1111	1114	1116	rBV	3531480	3570389	100.00%	12.584%
21	15.123	1173	1177	1180	rBV3	24722	36708	1.03%	0.129%
22	15.997	1254	1258	1261	rBV	349175	535499	15.00%	1.887%
23	16.074	1261	1265	1268	rBV	1531004	2248800	62.98%	7.926%
24	19.014	1553	1559	1565	rBV	1006376	1758766	49.26%	6.199%
25	19.828	1651	1655	1658	rBV4	23032	41638	1.17%	0.147%

Sum of corrected areas: 28371846

Signal : TIC: 1gb008.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

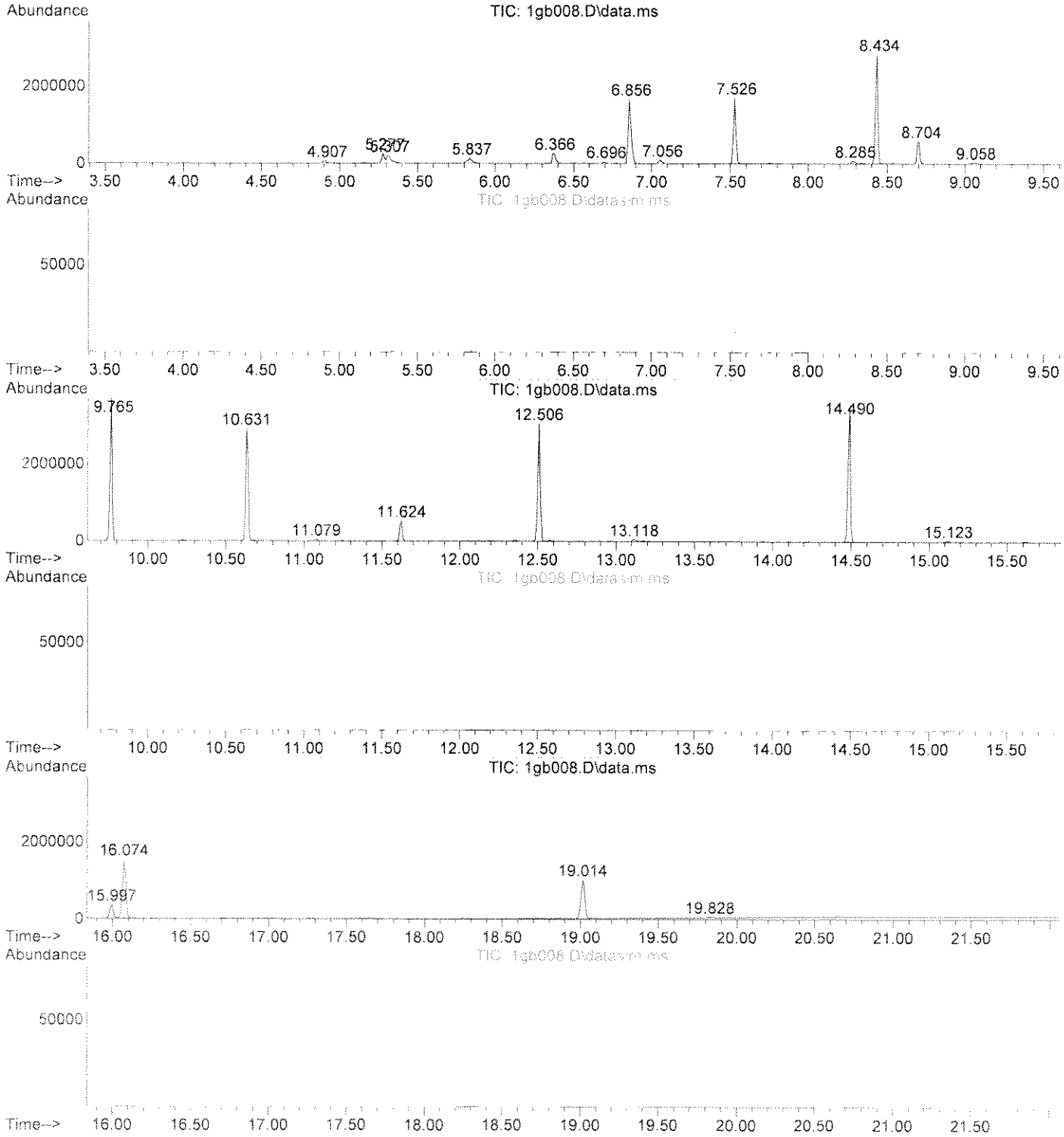
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.837	5.37	298331	1,4-DICHLOROBENZENE-D4	6.856

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	22
2	Phenol, 4-fluoro-	112	C6H5FO	000371-41-5	10
3	2-Cyclopenten-1-one, 2-hydroxy-3...	112	C6H8O2	000080-71-7	10
4	4-Penten-2-one, 3-methyl-, O-met...	127	C7H13NO	056335-98-9	10
5	4H-Thiopyran-4-one	112	C5H4OS	001003-41-4	10

****
Peak Number 2 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.704	9.51	703554	NAPHTHALENE-D8	8.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene 3-(tert-butyl)peroxide	170	C10H18O2	051437-25-3	45
2	trans-1,2-Dibromocyclohexane	240	C6H10Br2	007429-37-0	40
3	2,4-Dimethyl-1-hepten-4-ol	142	C9H18O	019549-94-1	38
4	1-Allyl-1-cyclohexanol	140	C9H16O	001123-34-8	9
5	Furan, 2-propyl-	110	C7H10O	004229-91-8	9

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb008.D
Acq On : 7 Jul 2013 10:29
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
unknown	5.837	5.4		298331	1	6.856	2222220	40.0
unknown	8.704	9.5		703554	2	8.434	2960650	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 16:38:05 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	358211	40.00 ug/mL	0.00
32) NAPHTHALENE-d8	8.434	136	1504021	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.632	164	801341	40.00 ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1299825	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	811469	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.015	264	552578	40.00 ug/mL	-0.03
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.277	112	647992	45.89 ug/mL	0.00
Spiked Amount 100.000			Recovery = 45.89%		
11) Phenol -D5 (acid surr)	6.377	99	878988	50.58 ug/mL	0.00
Spiked Amount 100.000			Recovery = 50.58%		
33) Nitrobenzene -D5 (b/n ...	7.526	82	750845	42.67 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 42.67%		
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1111572	37.17 ug/mL	0.00
Spiked Amount 100.000			Recovery = 37.17%		
91) 2,4,6-Tribromophenol (...	11.624	330	170212	49.54 ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.54%		
120) Terphenyl -D14 (b/n surr)	14.490	244	1174437	58.89 ug/mL	0.00
Spiked Amount 100.000			Recovery = 58.89%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.618	74	237	N.D.	
3) Pyridine	3.688	79	516	N.D.	
4) 2-Picoline	4.517	93	241	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.147	80	2060	N.D.	
8) 2-Fluorophenol	5.277	112	647992	45.889 ug/mL	92
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.747	79	1434	N.D.	
12) Phenol -D5	6.377	99	878988	50.579 ug/mL	86
13) Pentachloroethane	6.516	167	4267	N.D.	
14) aniline	6.506	93	109	N.D.	
15) Phenol	6.526	94	1126	N.D.	
16) Bis(2-chloroethyl)ether	6.506	93	109	N.D.	
17) 2-Chlorophenol	6.606	128	452	N.D.	
18) 1,3-Dichlorobenzene	6.796	146	628	N.D.	
19) 1,4-Dichlorobenzene	6.876	146	225	N.D.	
20) Benzyl Alcohol	6.996	108	107	N.D.	
21) 1,2-Dichlorobenzene	7.066	146	234	N.D.	
22) 2-Methylphenol	7.126	107	86	N.D.	
23) Bis(2-chloroisopropyl)...	7.186	45	216	N.D.	
24) Acetophenone	7.336	105	133	N.D.	
25) 3 & 4-Methylphenol	7.456	108	82	N.D.	
26) N-Nitrosodi-n-propylamine	7.336	70	272	N.D.	
27) N-Nitrosopyrrolidine	7.156	100	131	N.D.	
28) N-Nitrosomorpholine	7.376	56	101	N.D.	
29) Hexachloroethane	7.426	117	89	N.D.	
30) o-Toluidine	7.296	106	82	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.526	82	750845	42.665 ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 16:38:05 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	3719	N.D.	
36) N-Nitrosopiperidine	7.686	114	92	N.D.	
37) Isophorone	7.806	82	957	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.986	122	264	N.D.	
40) Bis(2-chloroethoxy)met...	8.080	93	70	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.360	180	672	N.D.	
45) Naphthalene	8.434	128	204	N.D.	
46) 4-Chloroaniline	8.546	127	89	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.900	84	80	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	9.226	107	87	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.449	142	75	N.D.	
55) 1-Methylnaphthalene	9.449	142	75	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.533	216	343	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	1111572	37.171 ug/mL	99
63) Isosafrole	9.933	162	125	N.D.	
64) 2-Chloronaphthalene	9.933	162	125	N.D.	
65) 2-Nitroaniline	9.887	65	151	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.240	163	236	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	10.454	152	103	N.D.	
71) 3-Nitroaniline	10.632	138	125	N.D.	
72) Acenaphthene	10.641	154	2962	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	10.846	250	88	N.D.	
75) 4-Nitrophenol	10.809	109	102	N.D.	
76) Dibenzofuran	10.893	168	251	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	865	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	11.333	107	83	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.443	169	168	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 16:38:05 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.443	169	168	N.D.	
90)	DPH (as Azobenzene)	0.000		0	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	170212	49.543 ug/mL	98
94)	Sulfotepp	11.624	97	81	N.D.	
95)	Diallate	11.724	86	183	N.D.	
96)	Phorate	11.734	75	94	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.624	213	75	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	691	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.598	178	222	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	228	N.D.	
111)	Methyl Parathion	12.933	109	96	N.D.	
112)	Di-n-butyl phthalate	13.176	149	5694	N.D.	
113)	Parathion	13.406	109	198	N.D.	
114)	4-Nitroquinoline-1-oxide	13.522	190	94	N.D.	
115)	Methapyrilene	13.568	97	520	N.D.	
116)	Isodrin	13.857	193	128	N.D.	
117)	Fluoranthene	14.038	202	391	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	332	N.D.	
121)	Terphenyl -D14	14.490	244	1174437	58.893 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.103	149	621	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.103	212	114	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.490	181	138	N.D.	
131)	3,3'-Dichlorobenzidine	15.975	252	113	N.D.	
132)	Benzo(a)anthracene	16.074	228	3243	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	8681	N.D.	
134)	Chrysene	16.074	228	3243	N.D.	
135)	Di-n-octyl phthalate	17.265	149	771	N.D.	
136)	Hexachlorophene	19.015	196	254	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	18.243	252	1683	N.D.	
140)	Benzo(k)fluoranthene	18.294	252	1220	N.D.	
141)	Benzo(a)pyrene	18.904	252	1714	N.D.	
142)	3-Methylcholanthrene	19.506	268	159	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.777	276	1212	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	1182	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	1193	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 16:38:05 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

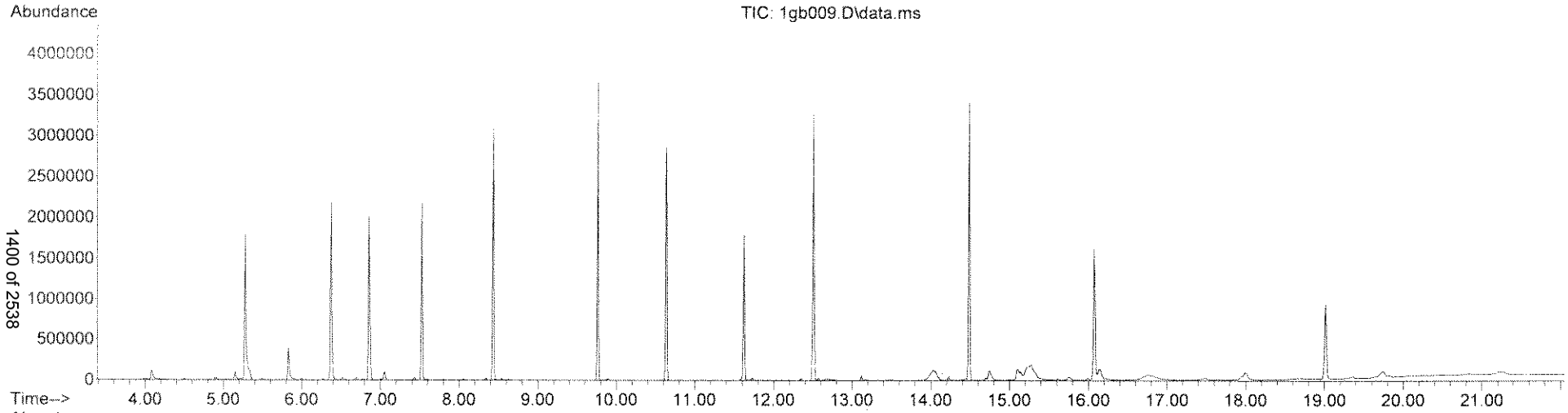
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

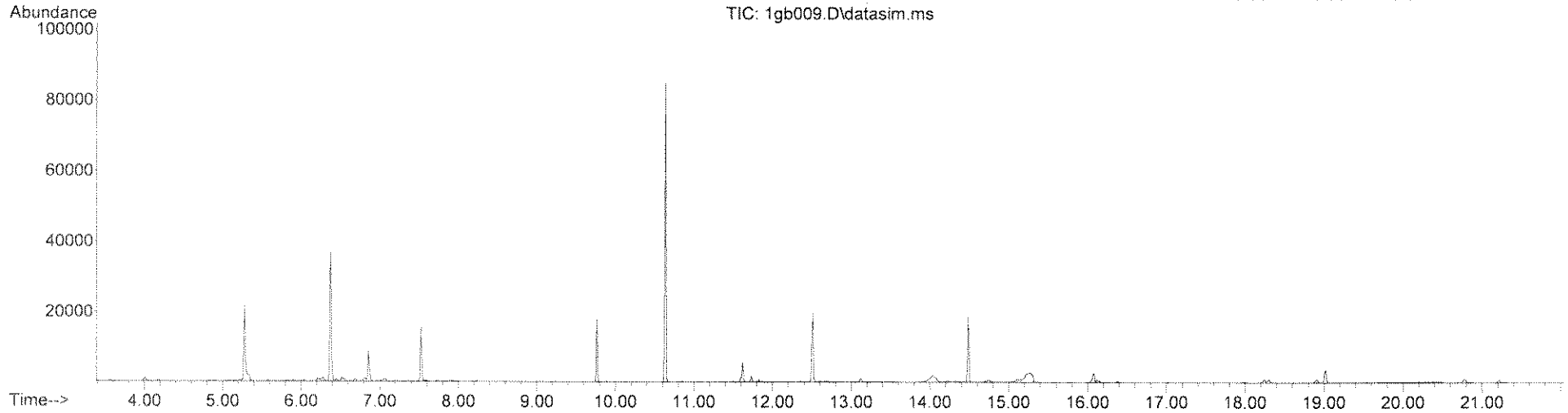
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 16:38:05 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 23:41:03 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

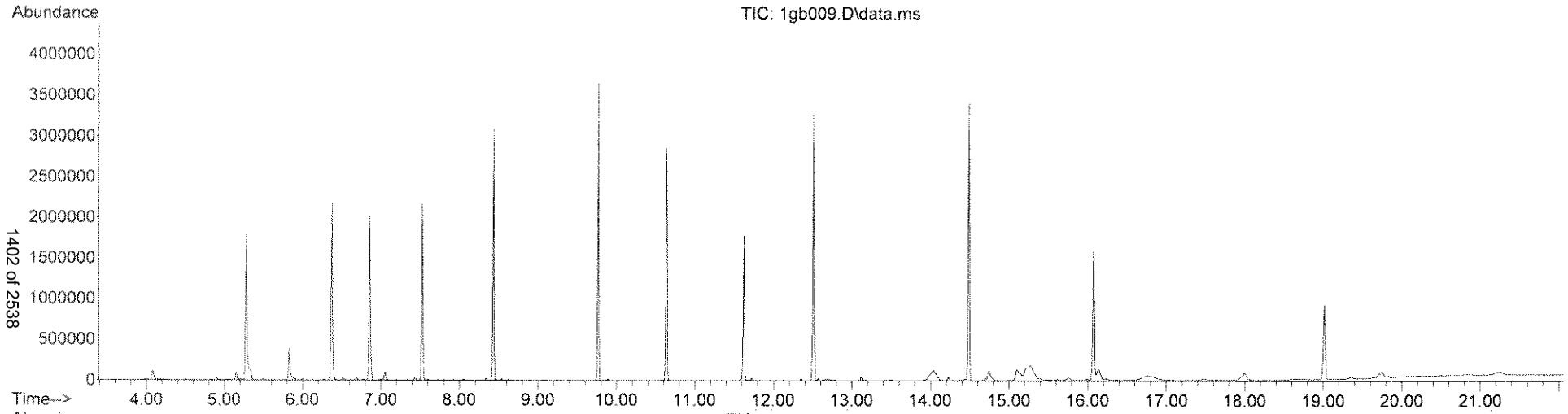
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	358211	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1504021	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.632	164	801341	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1299825	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	811469	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.015	264	552578	40.00	ug/mL	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	6.327	106	426	N.D.		
4) Caprolactam	8.881	113	158	N.D.		
6) 1,1'-Biphenyl	9.765	154	2072	N.D.		
7) Atrazine	0.000		0	N.D.		

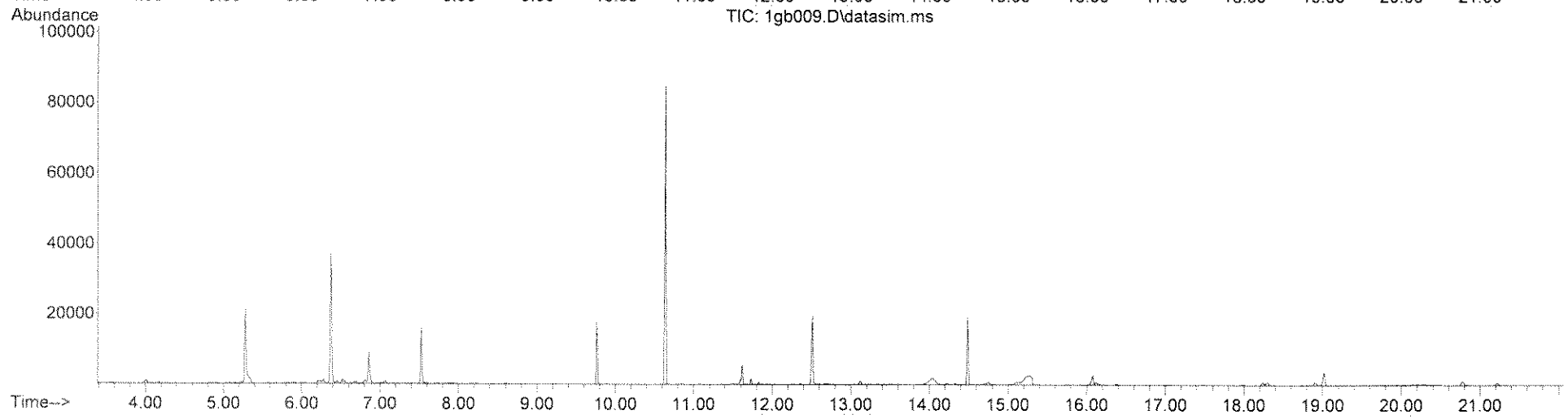
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 23:41:03 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb009.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	68	70	78	rBV	112837	207825	5.92%	0.557%
2	4.897	150	152	158	rBV	31198	53943	1.54%	0.145%
3	5.147	174	177	182	rBV2	98145	154327	4.40%	0.414%
4	5.277	187	190	200	rVV	1795017	2540103	72.36%	6.810%
5	5.497	208	212	219	rBV3	18629	38966	1.11%	0.104%
6	5.827	242	245	251	rBV	391143	562396	16.02%	1.508%
7	6.377	297	300	306	rVB	2179365	2590789	73.80%	6.946%
8	6.516	312	314	320	rVB2	30051	47312	1.35%	0.127%
9	6.696	327	332	335	rBV2	35045	49261	1.40%	0.132%
10	6.856	345	348	353	rBV	2004293	2361503	67.27%	6.331%
11	7.056	365	368	374	rVB	102626	149736	4.27%	0.401%
12	7.436	403	406	410	rVB	31943	50687	1.44%	0.136%
13	7.526	412	415	418	rBV	2167492	2261358	64.42%	6.063%
14	8.434	506	509	512	rBV	3092347	3241376	92.33%	8.690%
15	9.766	649	652	655	rBV	3653939	3437931	97.93%	9.217%
16	10.632	742	745	748	rBV	2846190	3456393	98.46%	9.267%
17	11.624	846	849	852	rVB	1767875	1751822	49.90%	4.697%
18	12.506	928	931	934	rBV	3269228	3345808	95.31%	8.970%
19	12.679	941	946	953	rBV5	17211	77816	2.22%	0.209%
20	13.118	982	984	987	rBV	58238	64507	1.84%	0.173%
21	14.038	1053	1069	1083	rBV	125459	756744	21.56%	2.029%
22	14.229	1085	1088	1090	rVV	43956	42806	1.22%	0.115%
23	14.490	1111	1114	1116	rVB	3393614	3510523	100.00%	9.412%
24	14.701	1132	1135	1136	rBV	28467	36256	1.03%	0.097%
25	14.741	1136	1139	1150	rVB	115856	312808	8.91%	0.839%
26	15.103	1167	1175	1178	rBV	130615	363208	10.35%	0.974%
27	15.233	1182	1188	1190	rBV3	107788	365278	10.41%	0.979%
28	15.755	1229	1236	1245	rBV2	36732	131355	3.74%	0.352%
29	15.997	1254	1258	1261	rBV	24103	43949	1.25%	0.118%
30	16.074	1261	1265	1268	rVV	1601716	2306472	65.70%	6.184%
31	16.140	1268	1271	1277	rVV2	134570	419630	11.95%	1.125%
32	16.229	1277	1279	1286	rVB4	19465	51173	1.46%	0.137%
33	16.714	1312	1323	1324	rBV	38793	154128	4.39%	0.413%
34	16.758	1324	1327	1330	rVV2	20509	72185	2.06%	0.194%
35	17.485	1385	1393	1405	rVB3	21603	93773	2.67%	0.251%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	17.948	1430	1435	1436	rBV	40135	85144	2.43%	0.228%
37	18.003	1436	1440	1451	rVB	84829	255431	7.28%	0.685%
38	19.015	1553	1559	1567	rBV	910026	1557875	44.38%	4.177%
39	19.752	1636	1646	1652	rBV2	65547	255947	7.29%	0.686%
40	19.820	1652	1654	1659	rVB5	21576	40778	1.16%	0.109%

Sum of corrected areas: 37299322

Signal : TIC: 1gb009.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

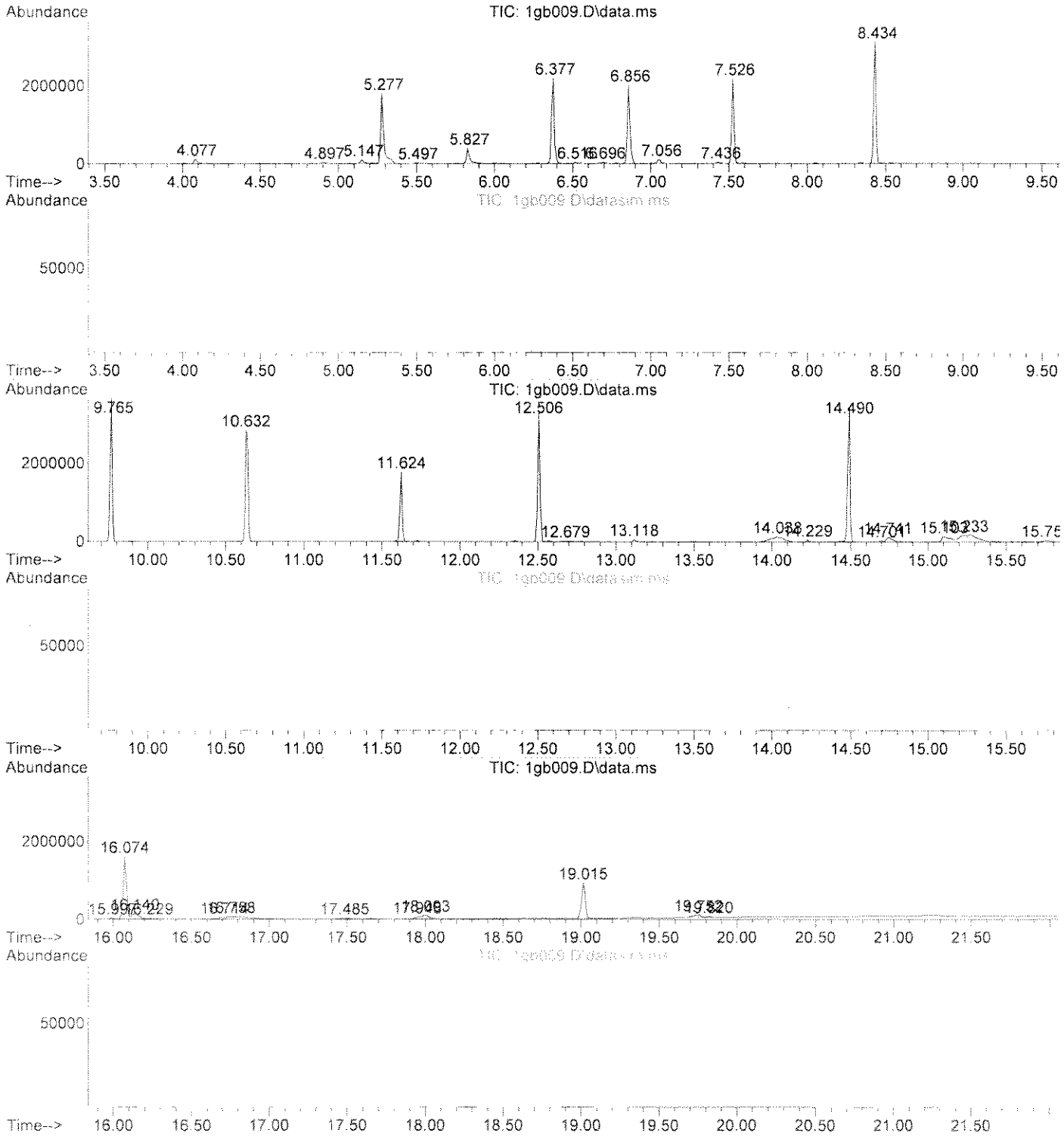
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.038	9.05	756744	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	59
2	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	58
3	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	50
4	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	50
5	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	50

****
Peak Number 2 2-Propanol, 1-[1-methyl-2-(... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.741	5.42	312808	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	72
2	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	64
3	Butanoic acid, 3-methoxy-	118	C5H10O3	010024-70-1	64
4	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	59
5	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	59

****
Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.103	6.30	363208	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	92
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	90
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
4	7-Nonenamide	155	C9H17NO	090949-53-4	50
5	Undecanamide, 11-bromo-	263	C11H22BrNO	1000163-84-6	50

****
Peak Number 4 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.233	6.33	365278	CHRYSENE-D12	16.074

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexanol	102	C6H14O	000623-37-0	50
2	2,5,8,11-Tetraoxatetradecan-13-o...	264	C13H28O5	020324-34-9	45
3	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	40
4	Allyl dithioacetate	132	C5H8S2	1000143-97-6	38
5	2-Heptanol, 2,6-dimethyl-	144	C9H20O	013254-34-7	33

****
Peak Number 5 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.140	7.28	419630	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	40
2	Hexane, 1-ethoxy-	130	C8H18O	005756-43-4	38
3	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	38
4	2-[5-(1-Hydroxy-1-methylethyl)-2...	218	C11H22O4	1000190-33-6	37
5	2-Pentanol, 3-chloro-2-methyl-	136	C6H13ClO	074685-49-7	32

****
Peak Number 6 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.003	6.56	255431	PERYLENE-D12	19.015

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	50
2	Propane, 1-chloro-3-[2-(2-methox...	196	C8H17ClO3	100688-50-4	47
3	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	47
4	Dipropylene glycol	134	C6H14O3	025265-71-8	47
5	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	40

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb009.D
Acq On : 7 Jul 2013 10:58
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc Units	Response	--Internal Standard--- #	RT	Resp	Conc
unknown	14.038	9.1	756744	4	12.506	3345810	40.0
2-Propanol, 1-[...	14.741	5.4	312808	5	16.074	2306470	40.0
9-Octadecenamid...	15.103	6.3	363208	5	16.074	2306470	40.0
unknown	15.233	6.3	365278	5	16.074	2306470	40.0
unknown	16.140	7.3	419630	5	16.074	2306470	40.0
unknown	18.003	6.6	255431	6	19.015	1557880	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 07 16:38:43 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	390070	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1668138	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	898863	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.506	188	1424746	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	952230	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.023	264	703744	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	259794	16.90	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 16.90%			
11) Phenol -D5 (acid surr)	6.366	99	270135	14.27	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 14.27%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	580220	29.73	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 29.73%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	998603	29.77	ug/mL	0.00
Spiked Amount 100.000			Recovery = 29.77%			
91) 2,4,6-Tribromophenol (...	11.624	330	108103	28.05	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 28.05%			
120) Terphenyl -D14 (b/n surr)	14.490	244	1141923	52.24	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 52.24%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.617	74	341	N.D.		
3) Pyridine	3.587	79	116	N.D.		
4) 2-Picoline	4.637	93	110	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	4.997	80	83	N.D.		
8) 2-Fluorophenol	5.277	112	259794	16.895	ug/mL	93
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.867	79	82	N.D.		
12) Phenol -D5	6.366	99	270135	14.275	ug/mL	87
13) Pentachloroethane	0.000		0	N.D.		
14) aniline	6.506	93	699	N.D.		
15) Phenol	0.000		0	N.D.		
16) Bis(2-chloroethyl)ether	6.506	93	778	N.D.		
17) 2-Chlorophenol	6.606	128	1163	N.D.		
18) 1,3-Dichlorobenzene	6.796	146	1027	N.D.		
19) 1,4-Dichlorobenzene	6.796	146	1027	N.D.		
20) Benzyl Alcohol	7.006	108	429	N.D.		
21) 1,2-Dichlorobenzene	7.066	146	800	N.D.		
22) 2-Methylphenol	7.136	107	842	N.D.		
23) Bis(2-chloroisopropyl)...	7.166	45	923	N.D.		
24) Acetophenone	7.336	105	1546	N.D.		
25) 3 & 4-Methylphenol	7.306	108	639	N.D.		
26) N-Nitrosodi-n-propylamine	7.326	70	1493	N.D.		
27) N-Nitrosopyrrolidine	7.296	100	218	N.D.		
28) N-Nitrosomorpholine	7.356	56	113	N.D.		
29) Hexachloroethane	7.496	117	366	N.D.		
30) o-Toluidine	0.000		0	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	580220	29.726	ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 07 16:38:43 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	3320	N.D.	
36) N-Nitrosopiperidine	7.816	114	101	N.D.	
37) Isophorone	7.836	82	2000	N.D.	
38) 2-Nitrophenol	7.946	139	308	N.D.	
39) 2,4-Dimethylphenol	7.966	122	738	N.D.	
40) Bis(2-chloroethoxy)met...	8.080	93	994	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	8.238	162	539	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	474	N.D.	
45) Naphthalene	8.453	128	3133	N.D.	
46) 4-Chloroaniline	8.499	127	330	N.D.	
47) 2,6-Dichlorophenol	8.518	162	482	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	8.611	223	98	N.D.	
50) N-Nitrosodi-n-Butylamine	8.825	84	178	N.D.	
51) p-Phenylenediamine	8.769	108	123	N.D.	
52) 4-Chloro-3-methylphenol	9.086	107	379	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.318	142	1201	N.D.	
55) 1-Methylnaphthalene	9.449	142	1207	N.D.	
56) Hexachlorocyclopentadiene	9.523	237	162	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.533	216	333	N.D.	
59) 2,4,6-Trichlorophenol	9.663	196	215	N.D.	
60) 2,4,5-Trichlorophenol	9.709	196	219	N.D.	
62) 2-Fluorobiphenyl	9.765	172	998603	29.771 ug/mL	99
63) Isosafrole	9.933	162	685	N.D.	
64) 2-Chloronaphthalene	9.933	162	685	N.D.	
65) 2-Nitroaniline	10.026	65	347	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.249	163	625	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	10.305	165	87	N.D.	
70) Acenaphthylene	10.454	152	1194	N.D.	
71) 3-Nitroaniline	10.631	138	74	N.D.	
72) Acenaphthene	10.678	154	922	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.631	109	1626	N.D.	
76) Dibenzofuran	10.883	168	1351	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	1136	N.D.	
82) 4-Chlorophenyl phenyl ...	11.294	204	291	N.D.	
83) Fluorene	11.322	166	834	N.D.	
84) Thionazin	11.256	107	74	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.443	169	273	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 07 16:38:43 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.443	169	273	N.D.	
90)	DPH (as Azobenzene)	11.513	182	417	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	108103	28.051 ug/mL	99
94)	Sulfotepp	0.000		0	N.D.	
95)	Diallate	0.000		0	N.D.	
96)	Phorate	0.000		0	N.D.	
97)	4-Bromophenylphenyl ether	11.915	248	112	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	12.263	266	115	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.541	178	1240	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.598	178	722	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	315	N.D.	
111)	Methyl Parathion	0.000		0	N.D.	
112)	Di-n-butyl phthalate	13.175	149	2263	N.D.	
113)	Parathion	0.000		0	N.D.	
114)	4-Nitroquinoline-1-oxide	13.441	190	116	N.D.	
115)	Methapyrilene	13.533	97	87	N.D.	
116)	Isodrin	13.827	193	76	N.D.	
117)	Fluoranthene	14.038	202	428	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	427	N.D.	
121)	Terphenyl -D14	14.490	244	1141923	52.242 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.123	149	124	N.D.	
125)	p-(dimethylamino)azobe...	14.490	225	6326	N.D.	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	15.964	252	115	N.D.	
132)	Benzo(a)anthracene	16.074	228	2885	N.D.	
133)	Bis(2-ethylhexyl)phtha...	16.008	149	20704	1.136 ug/mL#	66
134)	Chrysene	16.074	228	2885	N.D.	
135)	Di-n-octyl phthalate	17.276	149	24057	N.D.	
136)	Hexachlorophene	19.014	196	539	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.896	252	723	N.D.	
142)	3-Methylcholanthrene	19.472	268	73	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.777	276	1184	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	901	N.D.	
145)	Benzo(g,h,i)perylene	21.206	276	829	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 07 16:38:43 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

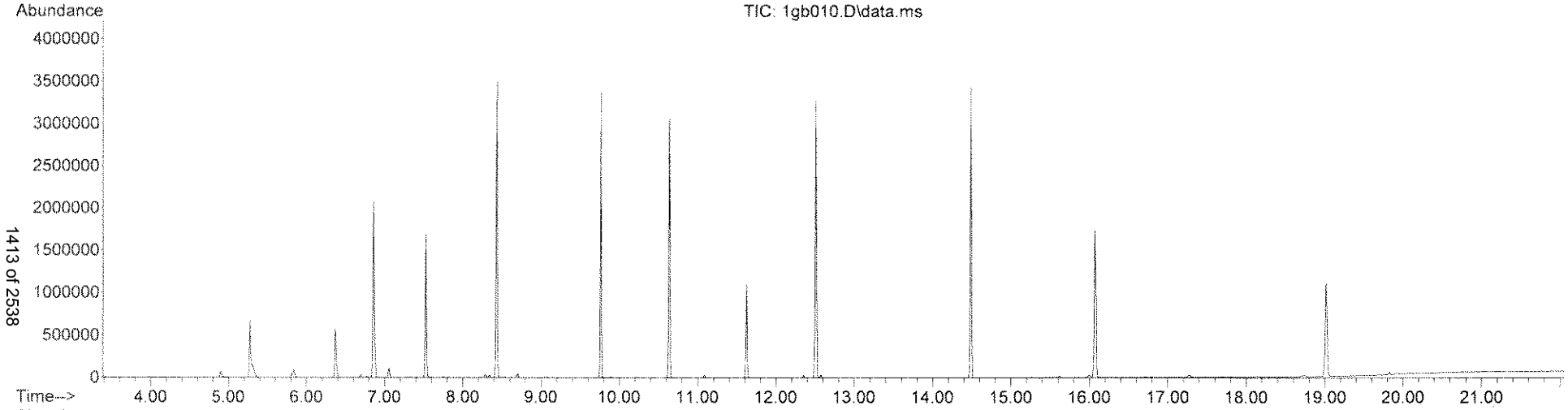
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

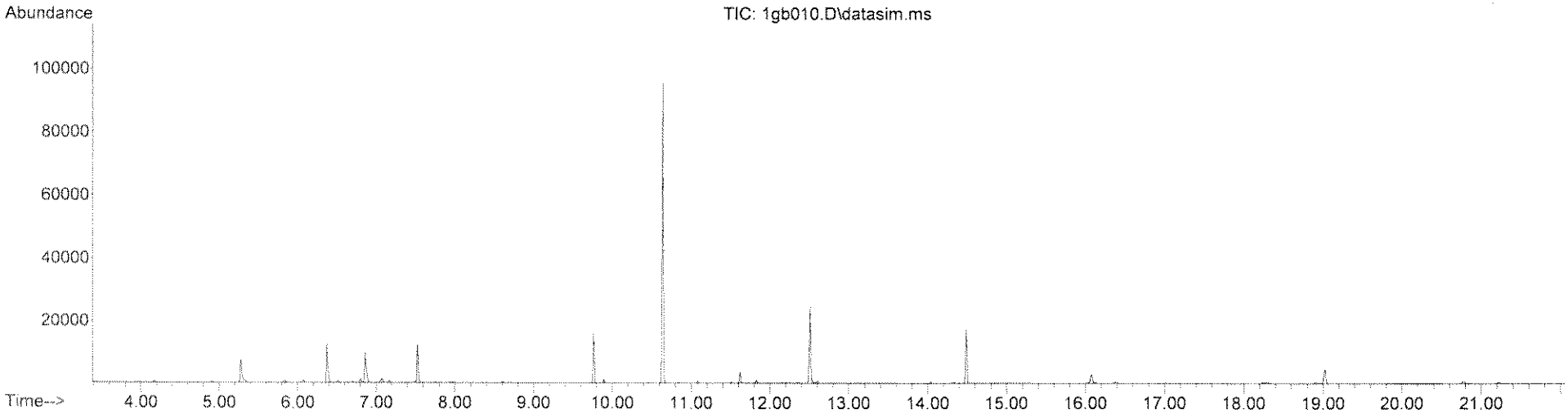
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 07 16:38:43 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 07 23:41:05 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

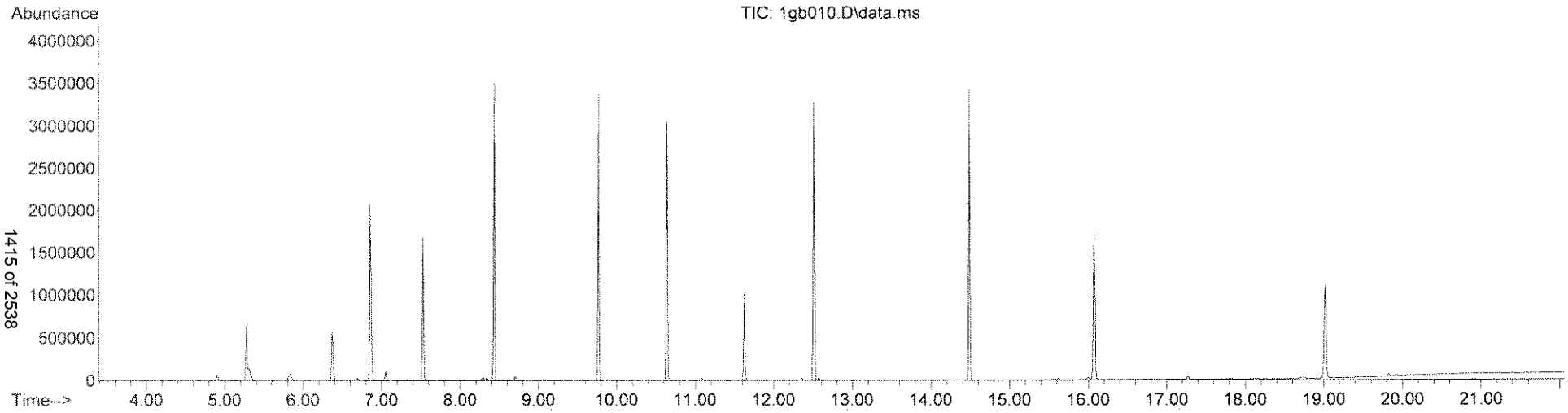
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	390070	40.00 ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1668138	40.00 ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	898863	40.00 ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1424746	40.00 ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	952230	40.00 ug/mL	-0.06
10) PERYLENE-d12	19.023	264	703744	40.00 ug/mL	-0.05
Target Compounds					Qvalue
2) Benzaldehyde	6.326	106	1093	N.D.	
4) Caprolactam	8.881	113	88	N.D.	
6) 1,1'-Biphenyl	9.896	154	1060	N.D.	
7) Atrazine	0.000		0	N.D.	

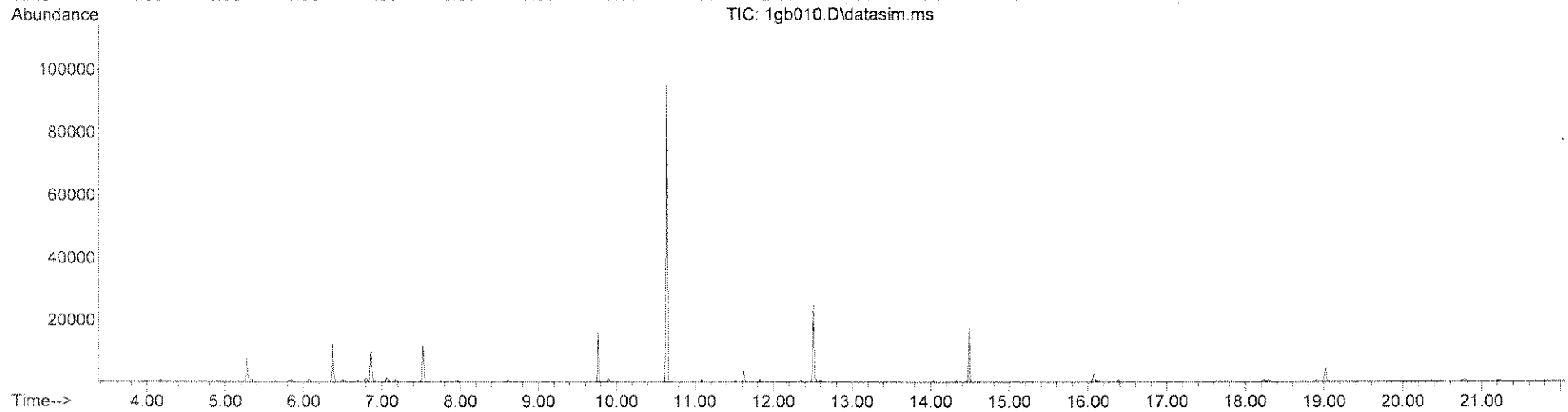
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 07 23:41:05 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb010.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.897	150	152	159	rBV	70985	111568	2.92%	0.368%
2	5.277	187	190	192	rBV	681842	851306	22.30%	2.808%
3	5.307	192	193	201	rVB	144724	275344	7.21%	0.908%
4	5.837	241	246	253	rBV2	97591	196902	5.16%	0.650%
5	6.366	297	299	305	rBV	569009	807302	21.15%	2.663%
6	6.696	329	332	335	rVB	35992	38841	1.02%	0.128%
7	6.856	345	348	353	rBV	2068795	2580161	67.60%	8.511%
8	7.056	365	368	373	rVB	110242	150562	3.94%	0.497%
9	7.526	412	415	418	rBV	1677552	1728528	45.29%	5.702%
10	8.285	489	493	497	rBV2	33548	56749	1.49%	0.187%
11	8.434	506	509	512	rBV	3504631	3599834	94.32%	11.875%
12	8.704	535	538	541	rBV	44871	58004	1.52%	0.191%
13	9.765	649	652	655	rVB	3370179	3115015	81.61%	10.276%
14	10.631	742	745	748	rBV	3055278	3816767	100.00%	12.591%
15	11.624	846	849	852	rBV	1101841	1126750	29.52%	3.717%
16	12.506	928	931	934	rBV	3281997	3632985	95.18%	11.985%
17	12.575	934	937	943	rVB	31495	39808	1.04%	0.131%
18	14.490	1111	1114	1117	rBV	3431786	3409975	89.34%	11.249%
19	15.997	1254	1258	1261	rBV	28059	50241	1.32%	0.166%
20	16.074	1261	1265	1268	rBV	1729394	2566458	67.24%	8.466%
21	17.276	1369	1374	1379	rBV	29768	57462	1.51%	0.190%
22	19.023	1553	1560	1565	rBV	1095869	1999173	52.38%	6.595%
23	19.820	1651	1654	1659	rBV4	28099	44149	1.16%	0.146%

Sum of corrected areas: 30313884

Signal : TIC: 1gb010.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

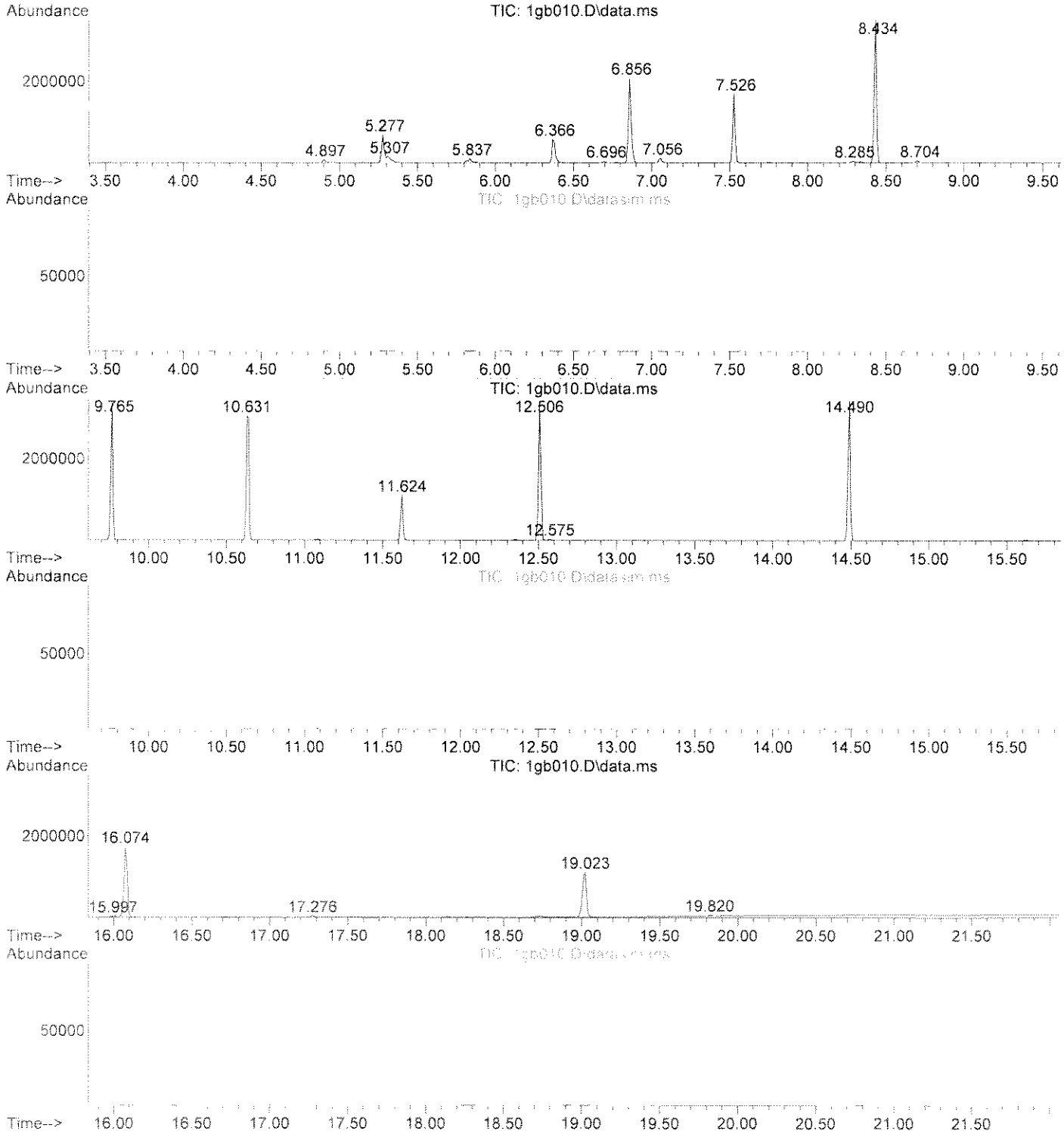
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb010.D
Acq On : 7 Jul 2013 11:26
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 16:39:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	375751	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.434	136	1560774	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.632	164	837172	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1307904	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	846702	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.023	264	628180	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	282951	19.10	ug/mL	0.00
Spiked Amount 100.000			Recovery = 19.10%			
11) Phenol -D5 (acid surr)	6.366	99	310314	17.02	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 17.02%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	661633	36.23	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 36.23%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1171769	37.51	ug/mL	0.00
Spiked Amount 100.000			Recovery = 37.51%			
91) 2,4,6-Tribromophenol (...	11.624	330	109889	30.62	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 30.62%			
120) Terphenyl -D14 (b/n surr)	14.490	244	953865	47.54	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 47.54%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	3.648	79	77	N.D.		
4) 2-Picoline	0.000		0	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	0.000		0	N.D.		
8) 2-Fluorophenol	5.277	112	282951	19.103	ug/mL	94
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.827	79	1084	N.D.		
12) Phenol -D5	6.366	99	310314	17.023	ug/mL	87
13) Pentachloroethane	0.000		0	N.D.		
14) aniline	6.576	93	114	N.D.		
15) Phenol	0.000		0	N.D.		
16) Bis(2-chloroethyl)ether	6.576	93	114	N.D.		
17) 2-Chlorophenol	6.606	128	290	N.D.		
18) 1,3-Dichlorobenzene	0.000		0	N.D.		
19) 1,4-Dichlorobenzene	0.000		0	N.D.		
20) Benzyl Alcohol	7.006	108	86	N.D.		
21) 1,2-Dichlorobenzene	0.000		0	N.D.		
22) 2-Methylphenol	7.056	107	130	N.D.		
23) Bis(2-chloroisopropyl)...	7.106	45	85	N.D.		
24) Acetophenone	7.336	105	338	N.D.		
25) 3 & 4-Methylphenol	7.416	108	97	N.D.		
26) N-Nitrosodi-n-propylamine	7.356	70	95	N.D.		
27) N-Nitrosopyrrolidine	7.406	100	97	N.D.		
28) N-Nitrosomorpholine	7.356	56	95	N.D.		
29) Hexachloroethane	0.000		0	N.D.		
30) o-Toluidine	0.000		0	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	661633	36.229	ug/mL	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : lgb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 16:39:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.566	77	107	N.D.	
36) N-Nitrosopiperidine	0.000		0	N.D.	
37) Isophorone	7.806	82	871	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.986	122	357	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	116	N.D.	
45) Naphthalene	8.304	128	1445	N.D.	
46) 4-Chloroaniline	8.536	127	106	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.751	84	109	N.D.	
51) p-Phenylenediamine	8.825	108	70	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.319	142	95	N.D.	
55) 1-Methylnaphthalene	9.449	142	125	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	1171769	37.507 ug/mL	99
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	9.886	65	92	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.250	163	165	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	10.305	165	113	N.D.	
70) Acenaphthylene	0.000		0	N.D.	
71) 3-Nitroaniline	10.622	138	88	N.D.	
72) Acenaphthene	10.678	154	74	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.632	109	1948	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	1173	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	11.284	107	180	N.D.	
85) 5-Nitro-o-toluidine	11.219	152	82	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 16:39:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	11.513	182	350	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	109889	30.616 ug/mL	99
94)	Sulfotepp	11.594	97	95	N.D.	
95)	Diallate	0.000		0	N.D.	
96)	Phorate	11.724	75	81	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	12.206	266	321	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	803	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.598	178	183	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	0.000		0	N.D.	
111)	Methyl Parathion	12.922	109	95	N.D.	
112)	Di-n-butyl phthalate	13.176	149	7760	N.D.	
113)	Parathion	13.383	109	335	N.D.	
114)	4-Nitroquinoline-1-oxide	13.499	190	116	N.D.	
115)	Methapyrilene	13.453	97	285	N.D.	
116)	Isodrin	13.897	193	238	N.D.	
117)	Fluoranthene	14.038	202	399	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	209	N.D.	
121)	Terphenyl -D14	14.490	244	953865	47.537 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.103	149	1127	N.D.	
125)	p-(dimethylamino)azobe...	14.490	225	5164	N.D.	
126)	Chlorobenzilate	14.761	251	83	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.074	228	2664	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	362067	22.348 ug/mL	96
134)	Chrysene	16.074	228	2664	N.D.	
135)	Di-n-octyl phthalate	0.000		0	N.D. d	
136)	Hexachlorophene	19.015	196	308	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.904	252	830	N.D.	
142)	3-Methylcholanthrene	19.650	268	215	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.777	276	753	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	836	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	627	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 16:39:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

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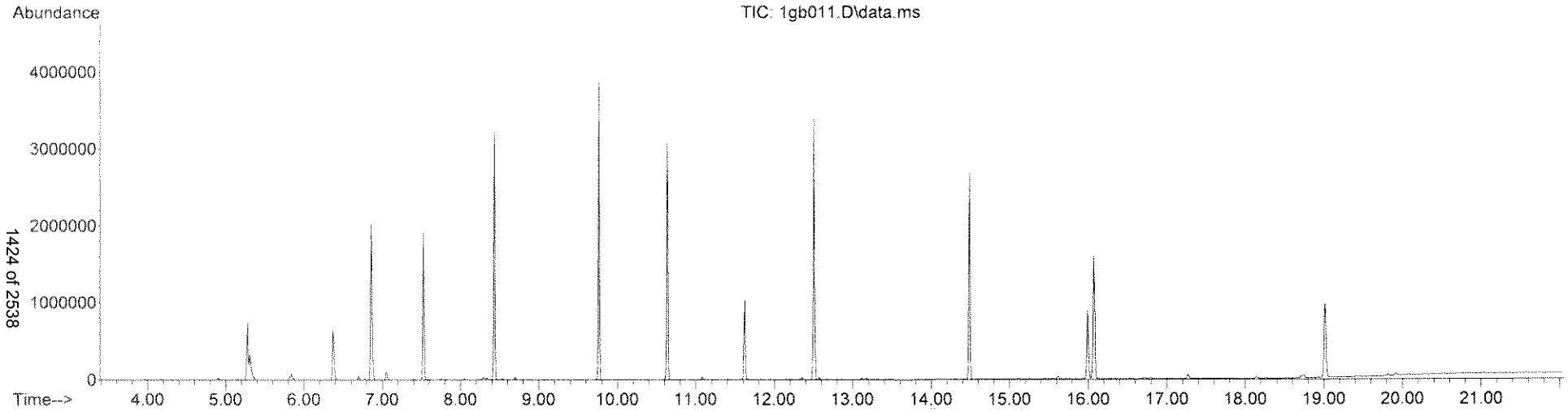
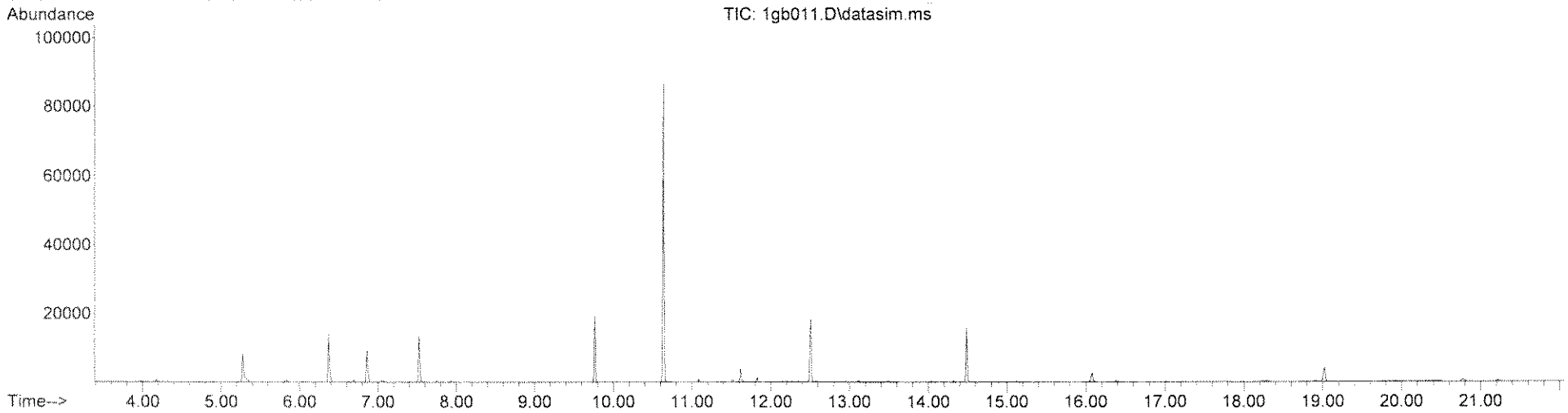
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 23:41:07 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

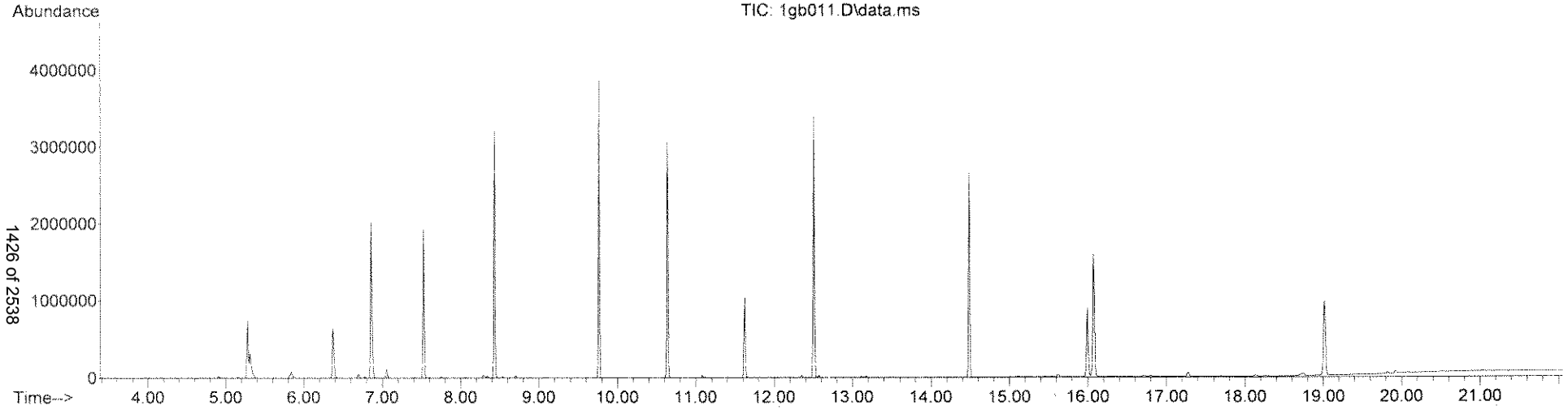
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	375751	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1560774	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.632	164	837172	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1307904	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	846702	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.023	264	628180	40.00	ug/mL	-0.05
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	174	N.D.		
4) Caprolactam	8.816	113	80	N.D.		
6) 1,1'-Biphenyl	9.896	154	73	N.D.		
7) Atrazine	0.000		0	N.D.		

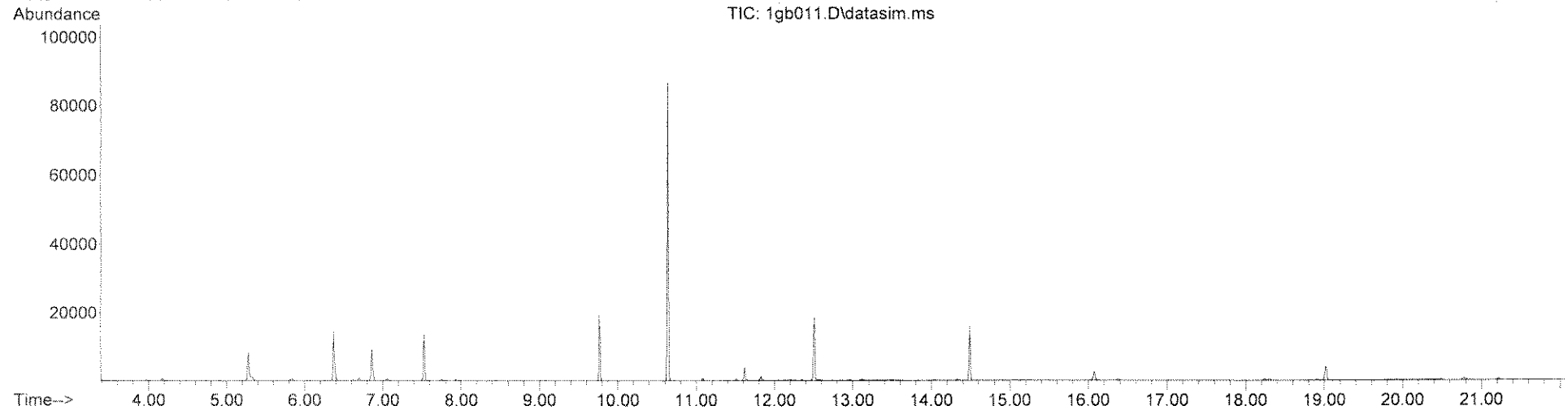
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 23:41:07 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb011.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.907	150	153	158	rBV	25456	39978	1.10%	0.128%
2	5.277	187	190	192	rBV	742009	952313	26.24%	3.052%
3	5.307	192	193	204	rVB	321193	550513	15.17%	1.764%
4	5.837	241	246	252	rBV2	82188	170066	4.69%	0.545%
5	6.366	297	299	304	rBV	634856	919430	25.34%	2.947%
6	6.696	329	332	335	rVB	55932	59781	1.65%	0.192%
7	6.856	345	348	353	rBV	2022946	2480306	68.36%	7.949%
8	7.056	365	368	374	rVB	107610	144650	3.99%	0.464%
9	7.526	412	415	418	rBV	1921237	2002833	55.20%	6.419%
10	8.285	490	493	497	rBV3	31857	58845	1.62%	0.189%
11	8.434	506	509	512	rBV	3216076	3372338	92.94%	10.808%
12	8.695	534	537	542	rBV	29182	38891	1.07%	0.125%
13	9.765	649	652	655	rVB	3864446	3628564	100.00%	11.629%
14	10.632	742	745	748	rBV	3073786	3606478	99.39%	11.558%
15	11.079	791	793	796	rBV	36903	39282	1.08%	0.126%
16	11.624	846	849	852	rBV	1024439	1158700	31.93%	3.713%
17	12.506	928	931	934	rBV	3412837	3357933	92.54%	10.761%
18	14.490	1111	1114	1116	rBV	2669063	2849174	78.52%	9.131%
19	15.622	1221	1224	1230	rBV2	33251	49824	1.37%	0.160%
20	15.997	1254	1258	1261	rBV	880509	1291108	35.58%	4.138%
21	16.074	1261	1265	1268	rVV	1575366	2284427	62.96%	7.321%
22	17.276	1371	1374	1378	rBV	56382	103828	2.86%	0.333%
23	18.142	1450	1456	1464	rBV2	20649	53402	1.47%	0.171%
24	18.718	1519	1524	1525	rBV2	24846	47391	1.31%	0.152%
25	18.743	1525	1527	1533	rVB	37757	64887	1.79%	0.208%
26	19.015	1553	1559	1566	rBV	953261	1777783	48.99%	5.697%
27	19.820	1651	1654	1658	rVB4	24735	38073	1.05%	0.122%
28	19.921	1662	1666	1669	rBV	34833	62447	1.72%	0.200%

Sum of corrected areas: 31203245

Signal : TIC: 1gb011.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

LSC Area Percent Report

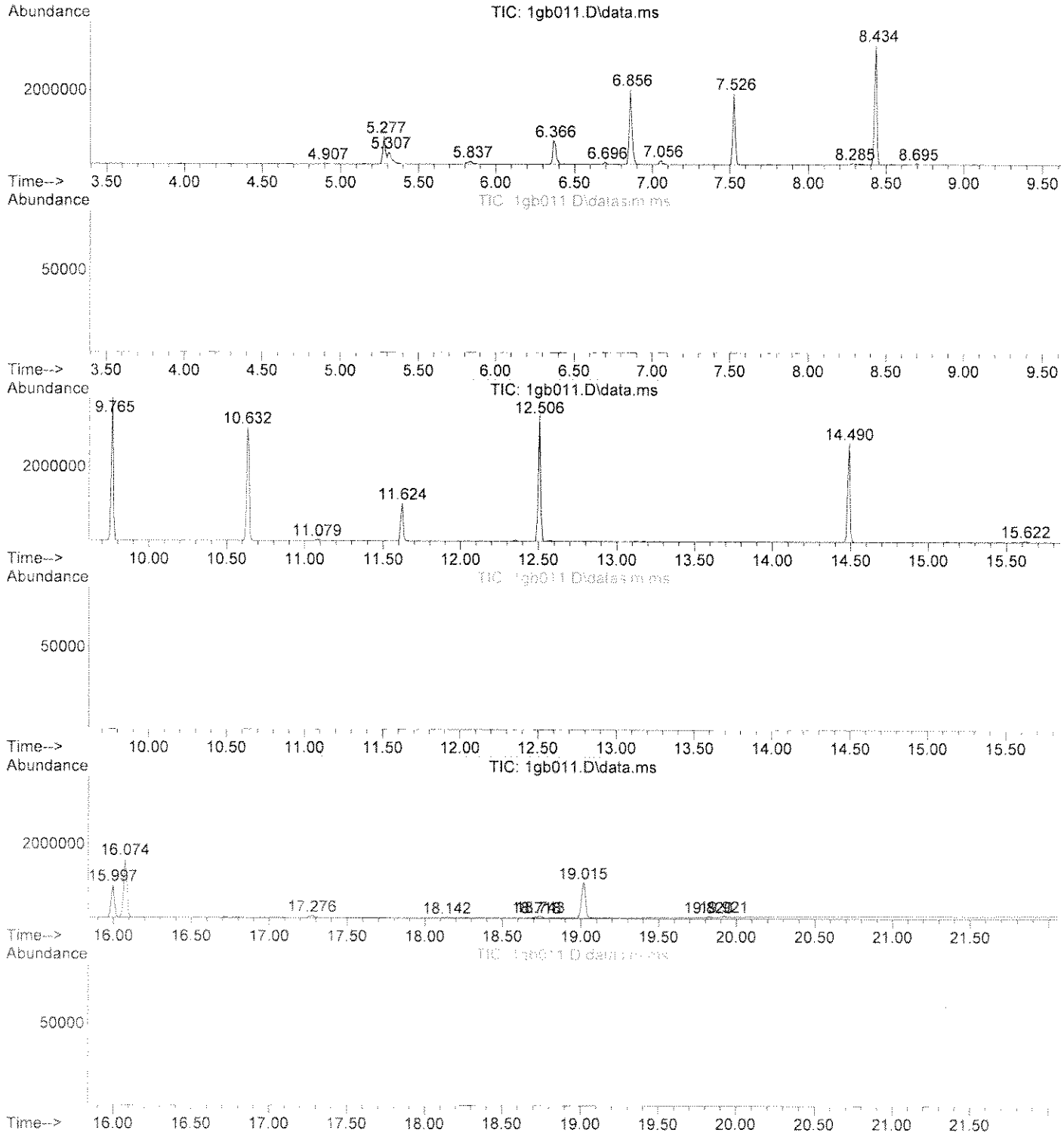
```
Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On    :  7 Jul 2013  11:54
Operator  : jfi
Sample    : a303499-16
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                              Filtering: 5
Sampling  : 1                                Min Area: 3 % of largest Peak
Start Thrs: 0.2                             Max Peaks: 100
Stop Thrs : 0                           Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\TICS.M
Title     : TIC SEARCH

   No peaks were detected using the above RTE integration parameters!
```

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb011.D
Acq On : 7 Jul 2013 11:54
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 16:44:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	383157	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.434	136	1626257	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	904955	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.506	188	1439896	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	916521	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.023	264	701177	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	663775	43.95	ug/mL	0.00
Spiked Amount 100.000			Recovery = 43.95%			
11) Phenol -D5 (acid surr)	6.376	99	963419	51.83	ug/mL	0.00
Spiked Amount 100.000			Recovery = 51.83%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	756682	39.77	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 39.77%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1141106	33.79	ug/mL	0.00
Spiked Amount 100.000			Recovery = 33.79%			
91) 2,4,6-Tribromophenol (...	11.624	330	185922	47.92	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 47.92%			
120) Terphenyl -D14 (b/n surr)	14.490	244	1291039	58.44	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 58.44%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.608	74	204	N.D.		
3) Pyridine	3.688	79	356	N.D.		
4) 2-Picoline	4.617	93	76	N.D.		
5) N-Nitrosomethylethylamine	4.547	88	76	N.D.		
6) Methyl methanesulfonate	5.147	80	3925	N.D.		
8) 2-Fluorophenol	5.277	112	663775	43.947	ug/mL	93
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.997	79	104	N.D.		
12) Phenol -D5	6.376	99	963419	51.828	ug/mL	85
13) Pentachloroethane	6.516	167	6093	1.001	ug/mL	99
14) aniline	6.516	93	561	N.D.		
15) Phenol	0.000		0	N.D.		
16) Bis(2-chloroethyl)ether	6.526	93	320	N.D.		
17) 2-Chlorophenol	6.606	128	400	N.D.		
18) 1,3-Dichlorobenzene	6.796	146	690	N.D.		
19) 1,4-Dichlorobenzene	6.796	146	690	N.D.		
20) Benzyl Alcohol	7.056	108	109	N.D.		
21) 1,2-Dichlorobenzene	7.066	146	648	N.D.		
22) 2-Methylphenol	7.056	107	109	N.D.		
23) Bis(2-chloroisopropyl)...	7.186	45	404	N.D.		
24) Acetophenone	0.000		0	N.D.		
25) 3 & 4-Methylphenol	0.000		0	N.D.		
26) N-Nitrosodi-n-propylamine	7.366	70	1019	N.D.		
27) N-Nitrosopyrrolidine	7.166	100	234	N.D.		
28) N-Nitrosomorpholine	7.346	56	319	N.D.		
29) Hexachloroethane	7.496	117	118	N.D.		
30) o-Toluidine	7.446	106	113	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	756682	39.765	ug/mL	90

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 16:44:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.596	77	96	N.D.	
36) N-Nitrosopiperidine	7.806	114	285	N.D.	
37) Isophorone	7.816	82	656	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.996	122	86	N.D.	
40) Bis(2-chloroethoxy)met...	8.043	93	75	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	922	N.D.	
45) Naphthalene	8.453	128	70	N.D.	
46) 4-Chloroaniline	0.000		0	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	8.611	223	107	N.D.	
50) N-Nitrosodi-n-Butylamine	8.881	84	714	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	0.000		0	N.D.	
55) 1-Methylnaphthalene	0.000		0	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	716	N.D.	
59) 2,4,6-Trichlorophenol	9.644	196	75	N.D.	
60) 2,4,5-Trichlorophenol	9.644	196	75	N.D.	
62) 2-Fluorobiphenyl	9.765	172	1141106	33.790 ug/mL	99
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	9.924	65	89	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	0.000		0	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	0.000		0	N.D.	
71) 3-Nitroaniline	10.632	138	99	N.D.	
72) Acenaphthene	10.641	154	3085	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	10.846	250	154	N.D.	
75) 4-Nitrophenol	10.632	109	2300	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	512	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	0.000		0	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 16:44:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	0.000		0	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	185922	47.920 ug/mL	99
94)	Sulfotepp	11.614	97	490	N.D.	
95)	Diallate	11.815	86	77	N.D.	
96)	Phorate	11.694	75	105	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.006	87	93	N.D.	
102)	4-Aminobiphenyl	12.241	169	105	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	880	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.506	178	880	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	101	N.D.	
111)	Methyl Parathion	12.910	109	128	N.D.	
112)	Di-n-butyl phthalate	13.176	149	4196	N.D.	
113)	Parathion	13.360	109	94	N.D.	
114)	4-Nitroquinoline-1-oxide	13.453	190	105	N.D.	
115)	Methapyrilene	13.580	97	208	N.D.	
116)	Isodrin	13.797	193	76	N.D.	
117)	Fluoranthene	14.038	202	81	N.D.	
118)	Benzidine	13.847	184	110	N.D.	
119)	Pyrene	14.329	202	174	N.D.	
121)	Terphenyl -D14	14.490	244	1291039	58.442 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.093	149	624	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.093	212	86	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.074	228	2771	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	10135	N.D.	
134)	Chrysene	16.074	228	2771	N.D.	
135)	Di-n-octyl phthalate	17.287	149	187	N.D.	
136)	Hexachlorophene	19.015	196	574	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.913	252	224	N.D.	
142)	3-Methylcholanthrene	19.540	268	195	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.758	276	561	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	432	N.D.	
145)	Benzo(g,h,i)perylene	21.206	276	674	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : lgb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 16:44:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

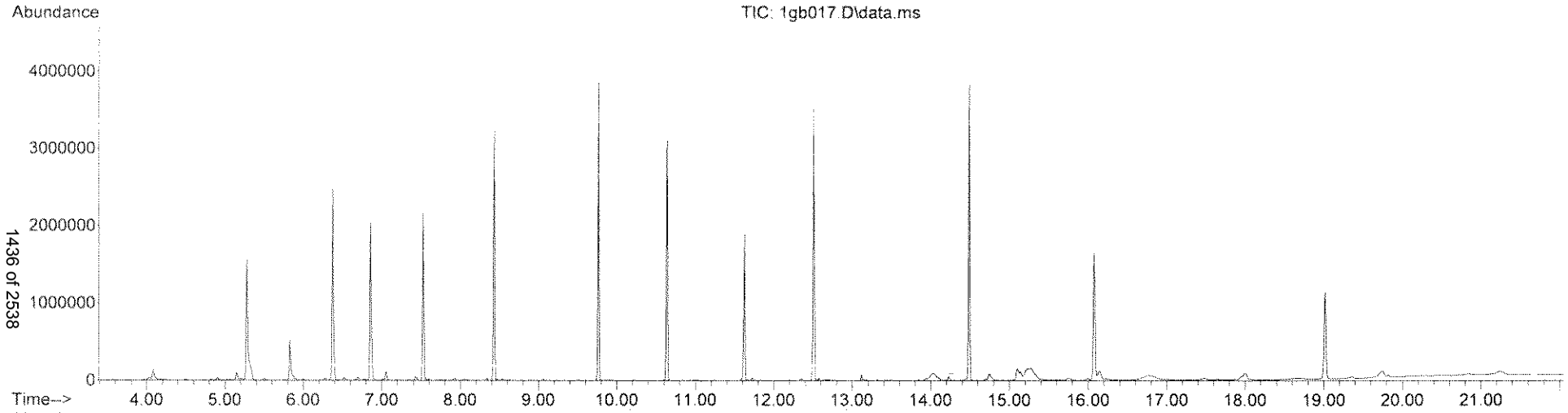
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

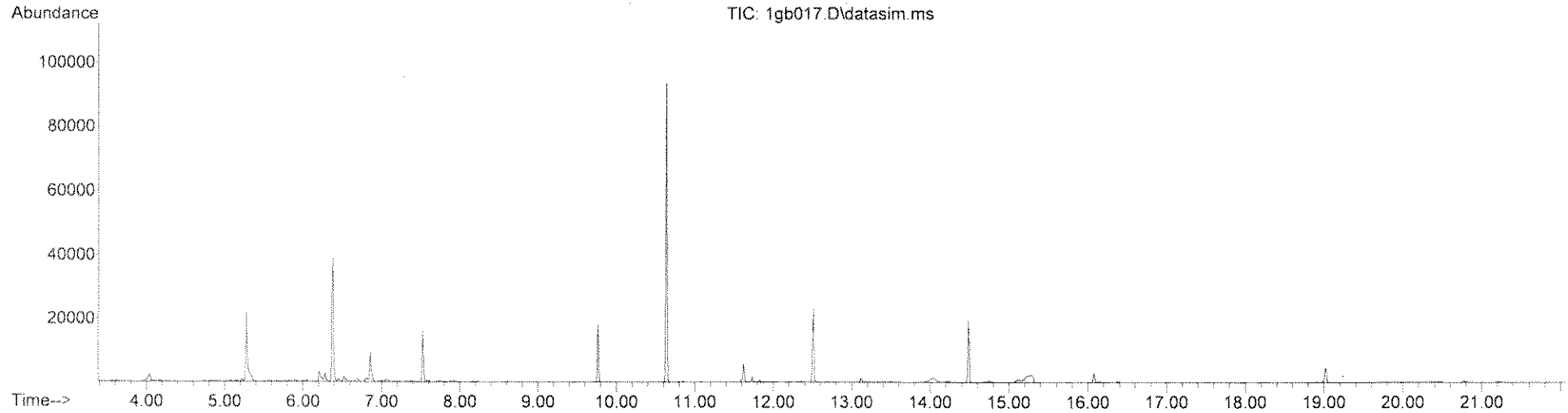
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 16:44:37 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 23:41:19 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

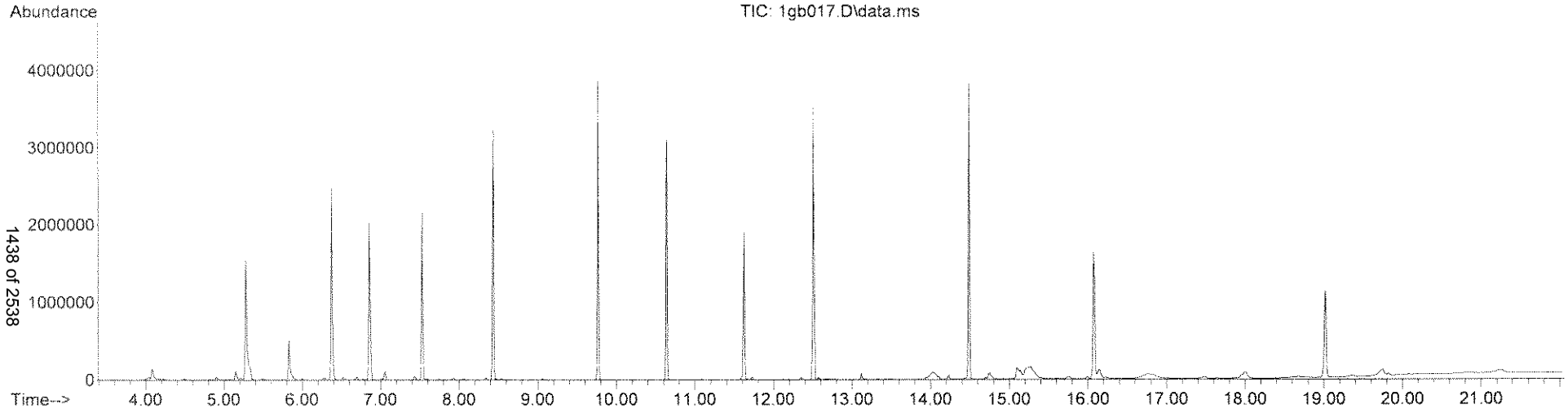
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	383157	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1626257	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	904955	40.00	ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1439896	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	916521	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.023	264	701177	40.00	ug/mL	-0.05
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	126	N.D.		
4) Caprolactam	8.881	113	263	N.D.		
6) 1,1'-Biphenyl	9.765	154	2387	N.D.		
7) Atrazine	0.000		0	N.D.		

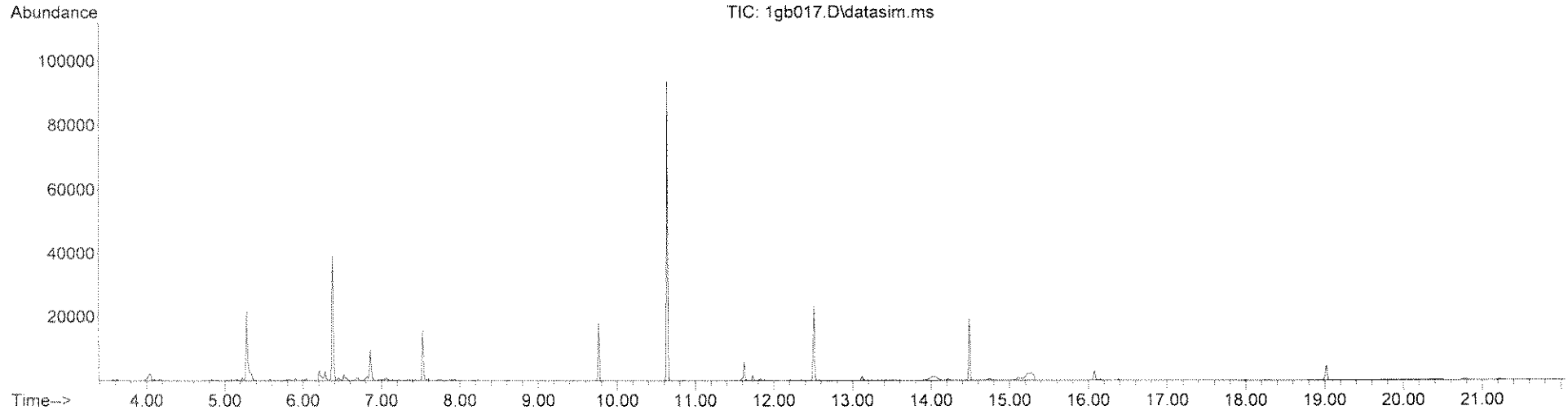
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 23:41:19 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb017.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.047	61	67	68	rBV2	26260	56498	1.47%	0.141%
2	4.077	68	70	78	rVB	135642	225040	5.86%	0.561%
3	4.907	150	153	160	rBV	36285	61911	1.61%	0.154%
4	5.147	174	177	182	rBV	110547	184179	4.80%	0.459%
5	5.277	187	190	200	rVB	1559218	2607960	67.96%	6.506%
6	5.497	208	212	219	rBV4	22620	51675	1.35%	0.129%
7	5.827	242	245	251	rBV	511016	767845	20.01%	1.916%
8	5.897	251	252	259	rVB2	23968	41130	1.07%	0.103%
9	6.277	288	290	294	rVB	26729	40100	1.04%	0.100%
10	6.376	297	300	306	rVB	2476885	2831760	73.79%	7.065%
11	6.516	312	314	320	rVB3	38883	64392	1.68%	0.161%
12	6.696	326	332	335	rBV2	45847	68781	1.79%	0.172%
13	6.856	345	348	353	rBV	2026335	2527645	65.86%	6.306%
14	7.056	365	368	375	rVB2	107796	170364	4.44%	0.425%
15	7.436	403	406	412	rVB	46064	70473	1.84%	0.176%
16	7.526	412	415	418	rBV	2160574	2303739	60.03%	5.747%
17	7.936	452	456	458	rVB3	25408	43848	1.14%	0.109%
18	8.341	496	499	502	rVB2	30969	38801	1.01%	0.097%
19	8.434	506	509	512	rVV	3231386	3445035	89.77%	8.595%
20	9.765	649	652	655	rVB	3853645	3525797	91.87%	8.796%
21	10.641	742	746	748	rBV	3109693	3825749	99.69%	9.544%
22	11.624	846	849	852	rVB	1877366	1888381	49.21%	4.711%
23	12.506	928	931	934	rBV	3521591	3719389	96.92%	9.279%
24	12.679	940	946	951	rBV3	11433	46887	1.22%	0.117%
25	13.118	981	984	987	rBV	81639	90940	2.37%	0.227%
26	13.937	1056	1059	1061	rBV	27455	41771	1.09%	0.104%
27	14.038	1061	1069	1075	rVV2	77748	402667	10.49%	1.005%
28	14.229	1085	1088	1093	rVB	54171	57874	1.51%	0.144%
29	14.490	1111	1114	1117	rVB	3819131	3837739	100.00%	9.574%
30	14.741	1136	1139	1153	rVB2	81985	228466	5.95%	0.570%
31	15.103	1169	1175	1178	rBV	142502	392318	10.22%	0.979%
32	15.223	1182	1187	1188	rBV2	87374	200615	5.23%	0.500%
33	15.755	1229	1236	1245	rVB2	29275	102773	2.68%	0.256%
34	16.074	1261	1265	1268	rBV	1632255	2551886	66.49%	6.366%
35	16.140	1268	1271	1277	rVV	113104	340477	8.87%	0.849%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	16.229	1277	1279	1285	rVB4	20420	46673	1.22%	0.116%
37	16.769	1313	1328	1330	rBV2	55891	329232	8.58%	0.821%
38	17.485	1386	1393	1403	rVB5	21778	98807	2.57%	0.247%
39	18.003	1431	1440	1457	rVB	85288	390466	10.17%	0.974%
40	19.023	1553	1560	1571	rBV	1111005	1974272	51.44%	4.925%
41	19.362	1595	1600	1607	rVB9	16889	49233	1.28%	0.123%
42	19.743	1637	1645	1652	rVV3	76347	290204	7.56%	0.724%
43	19.820	1652	1654	1659	rVB2	31227	50136	1.31%	0.125%

Sum of corrected areas: 40083928

Signal : TIC: 1gb017.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

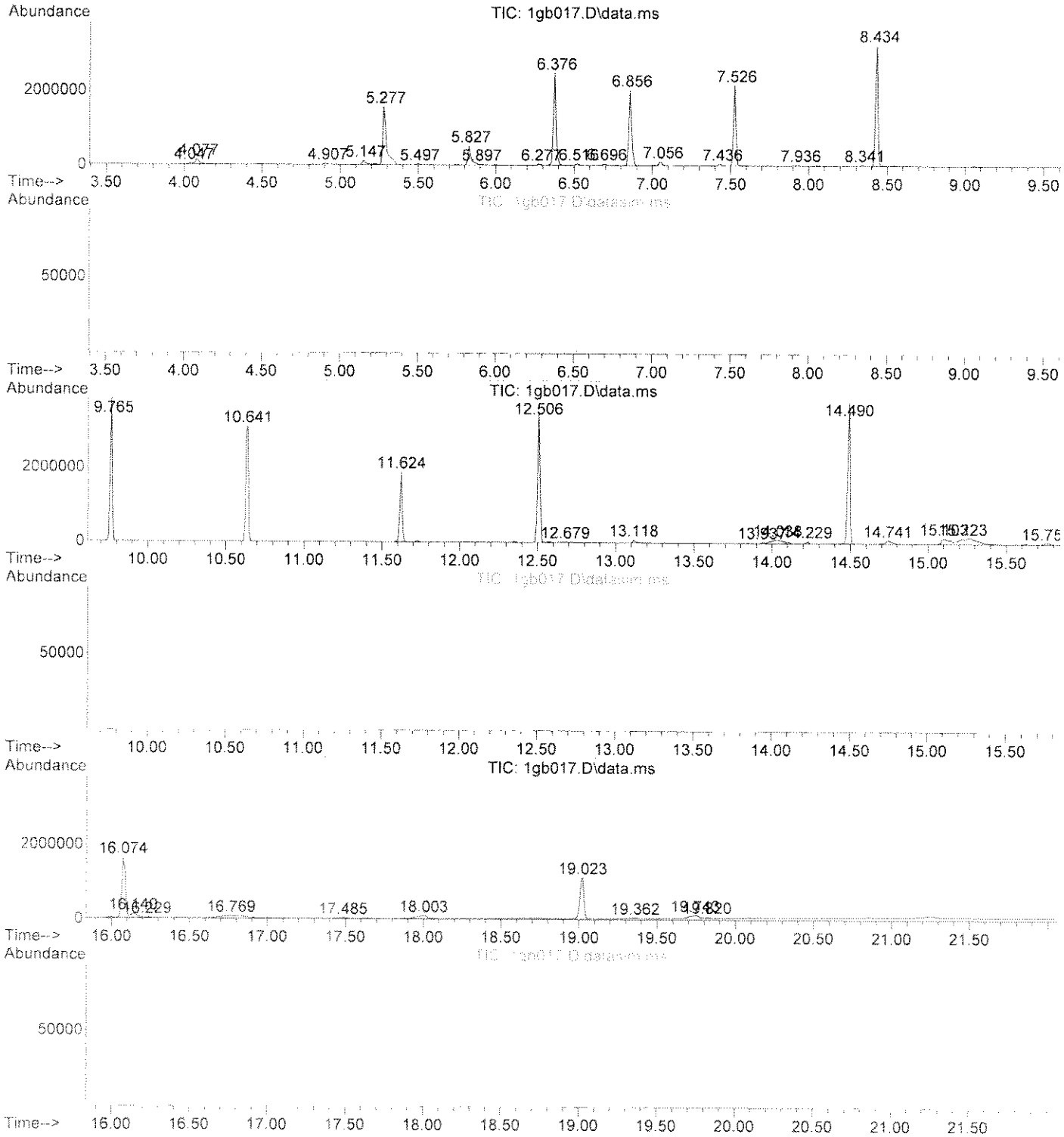
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.038	4.33	402667	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5,8,11-Tetraoxatetradecan-13-o...	264	C13H28O5	020324-34-9	56
2	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	50
3	2-Hydroxy-2,4-dimethyl-3-pentanone	130	C7H14O2	003212-67-7	50
4	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	50
5	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	49

****
Peak Number 2 9-Octadecenamide, (Z)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.103	6.15	392318	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	81
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	80
3	Pentanamide	101	C5H11NO	000626-97-1	59
4	7-Nonenamide	155	C9H17NO	090949-53-4	56
5	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	53

****
Peak Number 3 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.140	5.34	340477	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	64
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
4	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	59
5	Dipropylene glycol	134	C6H14O3	025265-71-8	59

****
Peak Number 4 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.769	5.16	329232	CHRYSENE-D12	16.074

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	59
2	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	59
3	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	58
4	2,5,8,11-Tetraoxatetradecan-13-o...	264	C13H28O5	020324-34-9	50
5	2-Hydroxy-2,4-dimethyl-3-pentanone	130	C7H14O2	003212-67-7	50

****
Peak Number 5 unknwon Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.003	7.91	390466	PERYLENE-D12	19.023

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	59
2	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	50
3	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	50
4	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	50
5	Methane, diethoxy-	104	C5H12O2	000462-95-3	47

****
Peak Number 6 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.744	5.88	290204	PERYLENE-D12	19.023

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	43
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	43
3	1,2-Dideoxy-l-erythro-pentitol	120	C5H12O3	1000112-47-4	43
4	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	40
5	Mannosamine hydrochloride	179	C6H13NO5	1000127-68-8	38

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb017.D
Acq On : 7 Jul 2013 14:44
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
unknown	14.038	4.3		402667	4	12.506	3719390	40.0
9-Octadecenamid...	15.103	6.2		392318	5	16.074	2551890	40.0
unknown	16.140	5.3		340477	5	16.074	2551890	40.0
unknown	16.769	5.2		329232	5	16.074	2551890	40.0
unknwon	18.003	7.9		390466	6	19.023	1974270	40.0
unknown	19.744	5.9		290204	6	19.023	1974270	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 16:45:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	327166	40.00 ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1301621	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.631	164	686354	40.00 ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1166725	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	859825	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.023	264	635203	40.00 ug/mL	-0.02
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.277	112	564738	43.79 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 43.79%		
11) Phenol -D5 (acid surr)	6.376	99	743039	46.81 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 46.81%		
33) Nitrobenzene -D5 (b/n ...	7.526	82	613482	40.28 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 40.28%		
61) 2-Fluorobiphenyl (b/n ...	9.765	172	938663	36.65 ug/mL	0.00
Spiked Amount 100.000			Recovery = 36.65%		
91) 2,4,6-Tribromophenol (...	11.624	330	156837	53.30 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 53.30%		
120) Terphenyl -D14 (b/n surr)	14.490	244	1113531	62.21 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 62.21%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.587	74	432	N.D.	
3) Pyridine	3.677	79	1197	N.D.	
4) 2-Picoline	4.547	93	90	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.147	80	411	N.D.	
8) 2-Fluorophenol	5.277	112	564738	43.789 ug/mL	92
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	6.046	79	4391	N.D.	
12) Phenol -D5	6.376	99	743039	46.813 ug/mL	85
13) Pentachloroethane	6.526	167	4805	N.D.	
14) aniline	6.446	93	190	N.D.	
15) Phenol	6.516	94	1007	N.D.	
16) Bis(2-chloroethyl)ether	6.526	93	1822	N.D.	
17) 2-Chlorophenol	6.606	128	381	N.D.	
18) 1,3-Dichlorobenzene	6.796	146	356	N.D.	
19) 1,4-Dichlorobenzene	6.796	146	356	N.D.	
20) Benzyl Alcohol	7.006	108	155	N.D.	
21) 1,2-Dichlorobenzene	7.076	146	366	N.D.	
22) 2-Methylphenol	7.126	107	83	N.D.	
23) Bis(2-chloroisopropyl)...	7.016	45	194	N.D.	
24) Acetophenone	7.336	105	76	N.D.	
25) 3 & 4-Methylphenol	7.326	108	225	N.D.	
26) N-Nitrosodi-n-propylamine	7.346	70	88	N.D.	
27) N-Nitrosopyrrolidine	0.000		0	N.D.	
28) N-Nitrosomorpholine	7.356	56	185	N.D.	
29) Hexachloroethane	7.506	117	83	N.D.	
30) o-Toluidine	7.456	106	79	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.526	82	613482	40.281 ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 16:45:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	2969	N.D.	
36) N-Nitrosopiperidine	7.806	114	306	N.D.	
37) Isophorone	7.876	82	88	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.986	122	225	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	622	N.D.	
45) Naphthalene	8.462	128	688	N.D.	
46) 4-Chloroaniline	8.536	127	125	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.890	84	238	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.318	142	115	N.D.	
55) 1-Methylnaphthalene	9.318	142	115	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	367	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	938663	36.648 ug/mL	100
63) Isosafrole	9.914	162	216	N.D.	
64) 2-Chloronaphthalene	9.914	162	216	N.D.	
65) 2-Nitroaniline	9.924	65	437	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.240	163	72	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	0.000		0	N.D.	
71) 3-Nitroaniline	10.631	138	120	N.D.	
72) Acenaphthene	10.678	154	70	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	10.846	250	94	N.D.	
75) 4-Nitrophenol	10.799	109	418	N.D.	
76) Dibenzofuran	10.883	168	87	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	10.827	143	77	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	377	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	11.312	166	80	N.D.	
84) Thionazin	11.284	107	806	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	11.453	138	75	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 16:45:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	11.503	182	166	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	156837	53.298 ug/mL	98
94)	Sulfotepp	11.624	97	533	N.D.	
95)	Diallate	0.000		0	N.D.	
96)	Phorate	0.000		0	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	712	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.598	178	134	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	101	N.D.	
111)	Methyl Parathion	12.956	109	213	N.D.	
112)	Di-n-butyl phthalate	13.175	149	4551	N.D.	
113)	Parathion	13.441	109	105	N.D.	
114)	4-Nitroquinoline-1-oxide	13.418	190	96	N.D.	
115)	Methapyrilene	13.636	97	346	N.D.	
116)	Isodrin	13.847	193	464	N.D.	
117)	Fluoranthene	14.038	202	1706	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	1840	N.D.	
121)	Terphenyl -D14	14.490	244	1113531	62.209 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	0.000		0	N.D. d	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	15.721	218	89	No Calib #	
128)	3,3'-Dimethylbenzidine	15.102	212	602	N.D.	
129)	Kepone	19.557	272	68	No Calib #	
130)	2-Acetylaminofluorene	15.545	181	403	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.074	228	5613	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	105971	6.441 ug/mL	99
134)	Chrysene	16.074	228	5613	N.D.	
135)	Di-n-octyl phthalate	17.276	149	3769	N.D.	
136)	Hexachlorophene	19.023	196	535	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.235	256	70	N.D.	
139)	Benzo(b)fluoranthene	18.252	252	2149	N.D.	
140)	Benzo(k)fluoranthene	18.252	252	2149	N.D.	
141)	Benzo(a)pyrene	18.803	252	1418	N.D.	
142)	3-Methylcholanthrene	19.565	268	310	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	998	N.D.	
144)	Dibenzo(a,h)anthracene	20.777	278	724	N.D.	
145)	Benzo(g,h,i)perylene	21.224	276	1055	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 16:45:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

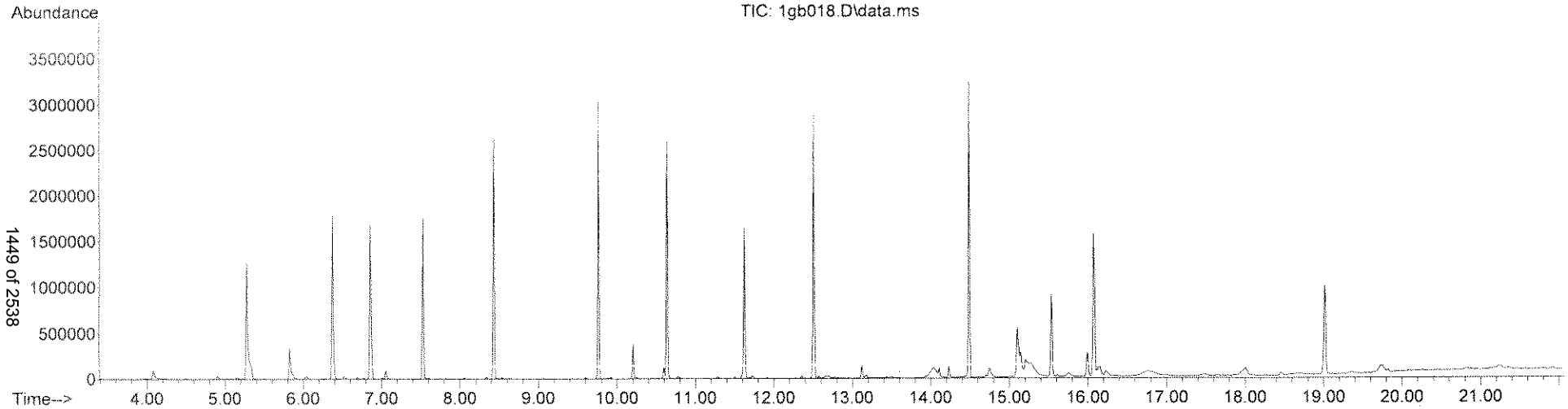
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

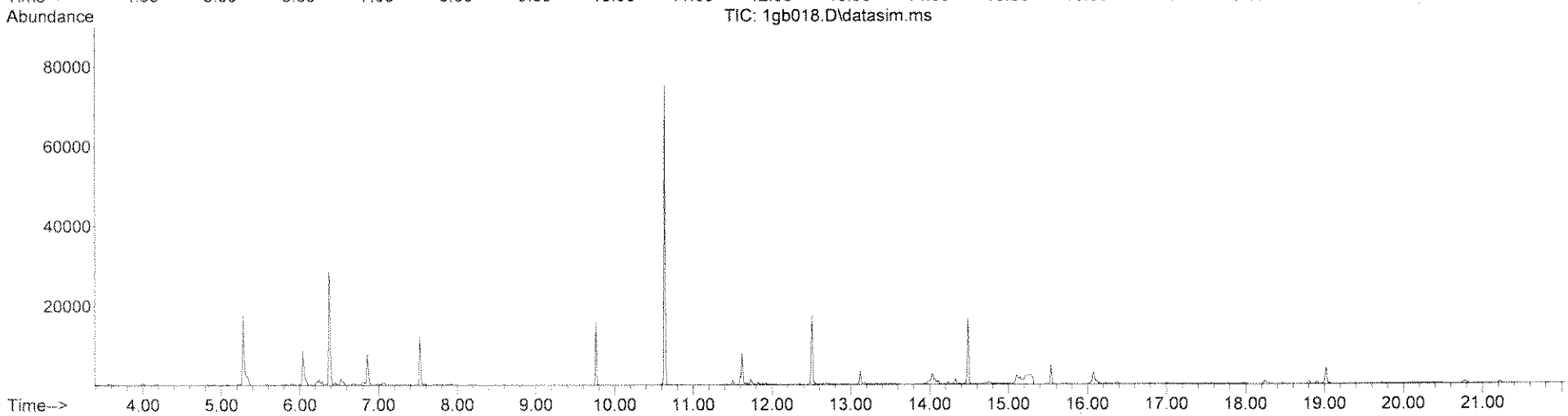
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 16:45:35 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 23:41:21 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

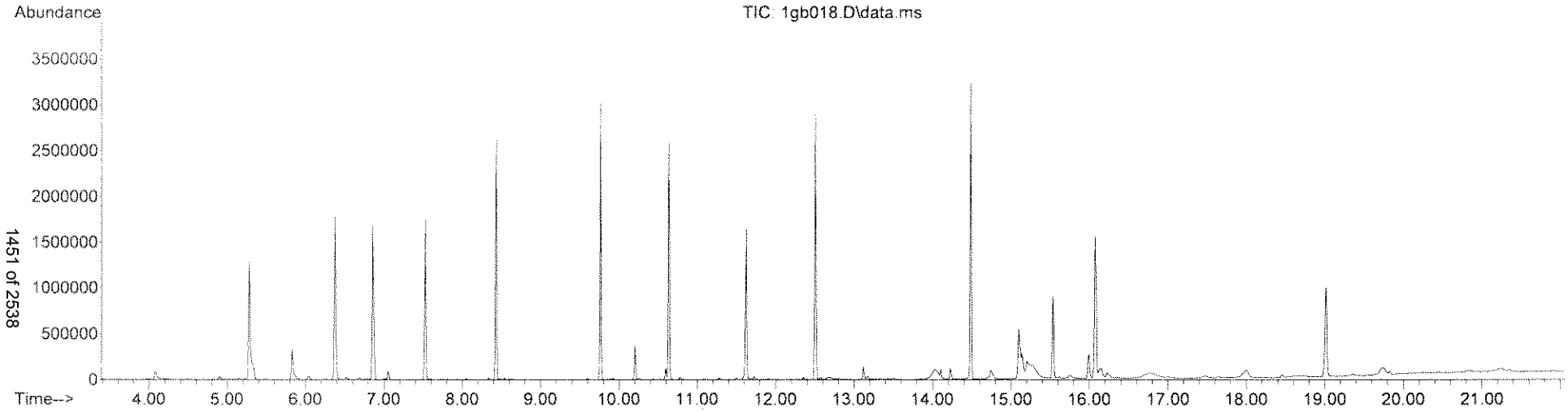
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	327166	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1301621	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.631	164	686354	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1166725	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	859825	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.023	264	635203	40.00	ug/mL	-0.05
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	254	N.D.		
4) Caprolactam	8.890	113	97	N.D.		
6) 1,1'-Biphenyl	9.765	154	1869	N.D.		
7) Atrazine	0.000		0	N.D.		

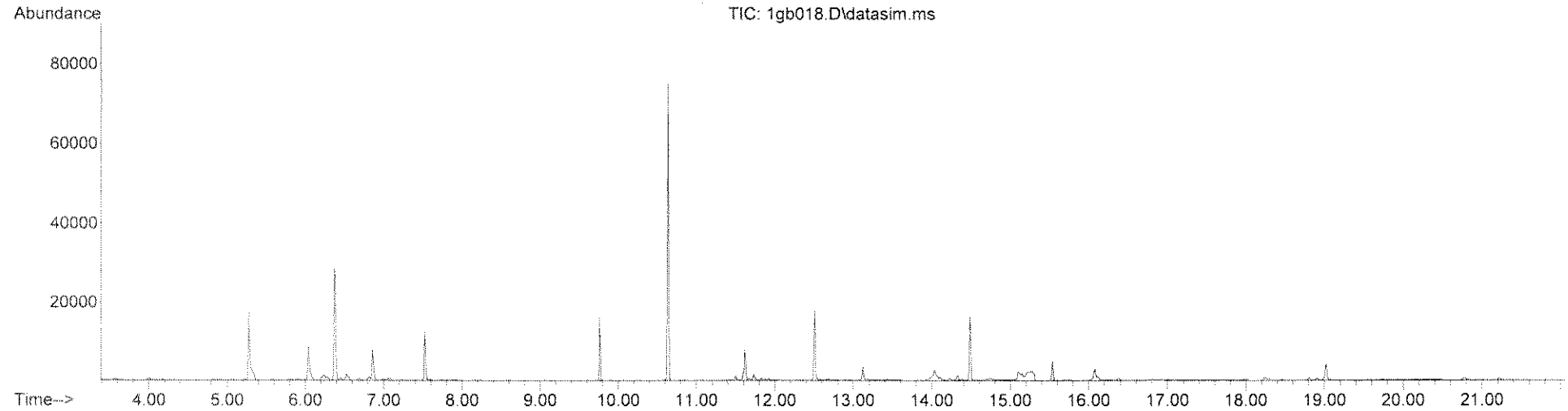
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 07 23:41:21 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb018.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	67	70	77	rBV	88367	180305	5.42%	0.485%
2	4.907	150	153	159	rBV	34141	58788	1.77%	0.158%
3	5.277	187	190	202	rVB	1288655	2218931	66.75%	5.971%
4	5.827	242	245	252	rBV	333559	542124	16.31%	1.459%
5	6.036	264	266	273	rVB2	41408	78125	2.35%	0.210%
6	6.376	297	300	306	rBV	1780447	2200349	66.19%	5.921%
7	6.516	311	314	320	rVB2	27540	53036	1.60%	0.143%
8	6.696	325	332	335	rBV2	23657	37660	1.13%	0.101%
9	6.856	345	348	353	rBV	1674048	2198537	66.13%	5.916%
10	7.056	365	368	376	rVB	93420	133324	4.01%	0.359%
11	7.526	412	415	418	rBV	1748853	1871202	56.29%	5.035%
12	8.434	506	509	512	rVV	2629431	2836951	85.34%	7.634%
13	9.765	649	652	655	rBV	3024064	2918756	87.80%	7.854%
14	10.203	696	699	702	rVB	372361	354544	10.66%	0.954%
15	10.594	738	741	743	rBV	121219	142669	4.29%	0.384%
16	10.631	743	745	748	rVB	2568918	2907062	87.45%	7.823%
17	10.781	758	761	766	rBV4	24212	41150	1.24%	0.111%
18	11.624	846	849	852	rVB	1626817	1673107	50.33%	4.502%
19	11.724	856	859	867	rVB	34332	54335	1.63%	0.146%
20	12.506	928	931	934	rBV	2894937	2983891	89.76%	8.030%
21	12.691	940	947	951	rBV2	24269	105599	3.18%	0.284%
22	13.118	982	984	987	rBV	149275	167036	5.02%	0.449%
23	13.175	987	989	991	rVB	37075	43954	1.32%	0.118%
24	14.038	1060	1069	1074	rBV	94011	462363	13.91%	1.244%
25	14.108	1074	1076	1079	rVB	97702	102630	3.09%	0.276%
26	14.228	1086	1088	1091	rVB	122145	119693	3.60%	0.322%
27	14.490	1111	1114	1117	rVB	3240911	3324380	100.00%	8.946%
28	14.701	1133	1135	1137	rBV3	22905	35642	1.07%	0.096%
29	14.741	1137	1139	1147	rVB	96810	236490	7.11%	0.636%
30	15.102	1169	1175	1178	rBV	541063	1163318	34.99%	3.130%
31	15.203	1183	1185	1190	rBV2	114703	322562	9.70%	0.868%
32	15.534	1213	1216	1219	rBV	888121	1208287	36.35%	3.251%
33	15.754	1229	1236	1245	rVB2	35154	125613	3.78%	0.338%
34	15.997	1254	1258	1261	rBV	256398	404759	12.18%	1.089%
35	16.074	1261	1265	1268	rVV	1543406	2391046	71.92%	6.434%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	16.140	1268	1271	1276	rVV2	106837	338088	10.17%	0.910%
37	16.228	1276	1279	1288	rVB	61496	164080	4.94%	0.442%
38	16.769	1318	1328	1330	rBV2	44588	235366	7.08%	0.633%
39	17.485	1385	1393	1401	rBV5	23518	112106	3.37%	0.302%
40	17.959	1431	1436	1437	rBV2	38914	98741	2.97%	0.266%
41	18.003	1437	1440	1450	rVB2	80833	239298	7.20%	0.644%
42	18.455	1489	1493	1498	rBV3	30355	64830	1.95%	0.174%
43	19.014	1553	1559	1568	rBV	962390	1788809	53.81%	4.814%
44	19.362	1592	1600	1603	rBV8	24384	81130	2.44%	0.218%
45	19.752	1637	1646	1652	rBV5	66530	290298	8.73%	0.781%
46	19.820	1652	1654	1660	rVB4	28946	50387	1.52%	0.136%

Sum of corrected areas: 37161351

Signal : TIC: 1gb018.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

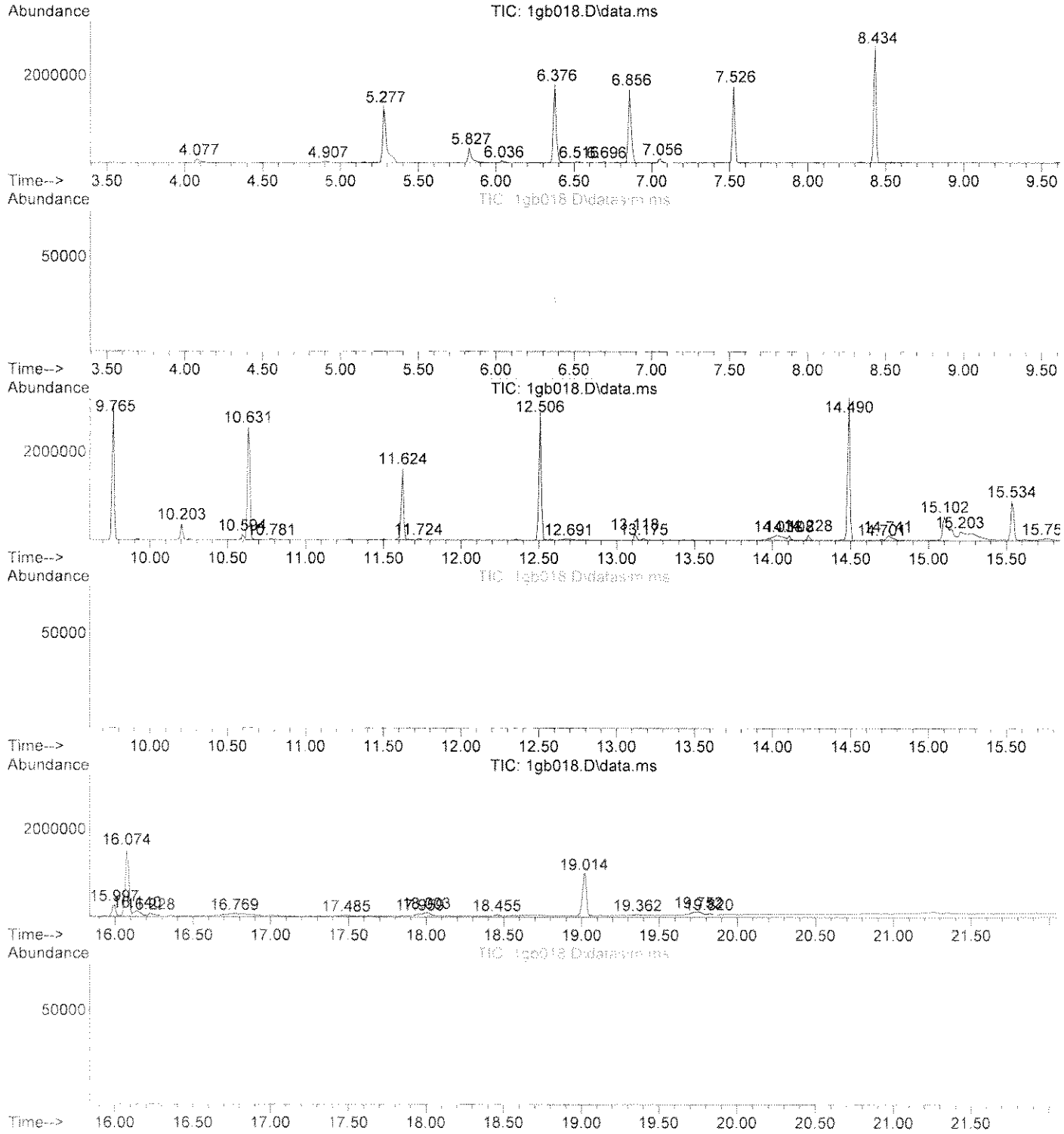
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.827	9.86	542124	1,4-DICHLOROBENZENE-D4	6.856

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	96
2	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	91
3	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	90
4	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	90
5	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	81

****
Peak Number 2 Caryophyllene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.203	4.88	354544	ACENAPHTHENE-D10	10.631

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Caryophyllene	204	C15H24	000087-44-5	98
2	Caryophyllene	204	C15H24	000087-44-5	98
3	Bicyclo[7.2.0]undec-4-ene, 4,11,...	204	C15H24	000118-65-0	91
4	Bicyclo[5.2.0]nonane, 2-methylen...	204	C15H24	1000159-38-9	87
5	Caryophyllene	204	C15H24	000087-44-5	87

****
Peak Number 3 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.038	6.20	462363	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	53
2	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	53
3	2,5,8,11-Tetraoxatetradecan-13-o...	264	C13H28O5	020324-34-9	50
4	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	47
5	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	43

****
Peak Number 4 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.102	19.46	1163320	CHRYSENE-D12	16.074

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	52
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	49
4	Benzyl butyl phthalate	312	C19H20O4	000085-68-7	38
5	Benzyl butyl phthalate	312	C19H20O4	000085-68-7	35

****
Peak Number 5 Tetradecanamide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.203	5.40	322562	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanamide	227	C14H29NO	000638-58-4	87
2	Tetradecanamide	227	C14H29NO	000638-58-4	86
3	Hexadecanamide	255	C16H33NO	000629-54-9	80
4	Undecanamide, 11-bromo-	263	C11H22BrNO	1000163-84-6	72
5	Nonanamide	157	C9H19NO	001120-07-6	56

****
Peak Number 6 Cinnamyl cinnamate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.534	20.21	1208290	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cinnamyl cinnamate	264	C18H16O2	000122-69-0	87
2	3-p-Tolylprop-2-enal	146	C10H10O	1000202-14-8	56
3	Cinnamoylglycine, methyl ester	219	C12H13NO3	040778-04-9	55
4	2,2-Dimethyl-1-(2-vinylphenyl)pr...	188	C13H16O	1000210-99-9	50
5	2-Propenoic acid, 3-phenyl-, 4-m...	238	C16H14O2	010519-07-0	47

****
Peak Number 7 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.140	5.66	338088	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	53

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

4	Methane, diethoxy-	104	C5H12O2	000462-95-3	53
5	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	42

****
Peak Number 8 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.003	5.35	239298	PERYLENE-D12	19.023

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	43
2	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	40
3	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	40
4	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	40
5	Propanedioic acid, methyl-, dime...	146	C6H10O4	000609-02-9	38

****
Peak Number 9 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.752	6.49	290298	PERYLENE-D12	19.023

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silane, [2-(2-methoxyethoxy)etho...	192	C8H20O3Si	062199-57-9	50
2	Tricyclo[6.3.0.0(4,7)]undec-2-en...	280	C16H24O4	1000154-01-7	43
3	3-Hexanol, 1,5-dimethoxy-2,4-dim...	190	C10H22O3	013897-22-8	42
4	Silane, diethyldimethyl-	116	C6H16Si	000756-81-0	38
5	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	37

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb018.D
Acq On : 7 Jul 2013 15:13
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethane, 1,1,2,2...	5.827	9.9		542124	1	6.856	2198540	40.0
Caryophyllene	10.203	4.9		354544	3	10.631	2907060	40.0
unknown	14.038	6.2		462363	4	12.506	2983890	40.0
unknown	15.102	19.5		1163320	5	16.074	2391050	40.0
Tetradecanamide	15.203	5.4		322562	5	16.074	2391050	40.0
Cinnamyl cinnamate	15.534	20.2		1208290	5	16.074	2391050	40.0
unknown	16.140	5.7		338088	5	16.074	2391050	40.0
unknown	18.003	5.3		239298	6	19.023	1788810	40.0
unknown	19.752	6.5		290298	6	19.023	1788810	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 16:46:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	352014	40.00 ug/mL	0.00
32) NAPHTHALENE-d8	8.434	136	1442700	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.632	164	764152	40.00 ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1279386	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	949487	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.023	264	682114	40.00 ug/mL	-0.02
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.277	112	469458	33.83 ug/mL	0.00
Spiked Amount 100.000			Recovery = 33.83%		
11) Phenol -D5 (acid surr)	6.376	99	663207	38.83 ug/mL	0.00
Spiked Amount 100.000			Recovery = 38.83%		
33) Nitrobenzene -D5 (b/n ...	7.526	82	499440	29.59 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 29.59%		
61) 2-Fluorobiphenyl (b/n ...	9.765	172	693014	24.30 ug/mL	0.00
Spiked Amount 100.000			Recovery = 24.30%		
91) 2,4,6-Tribromophenol (...	11.624	330	158085	48.25 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 48.25%		
120) Terphenyl -D14 (b/n surr)	14.490	244	1157230	58.96 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 58.96%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.578	74	856	N.D.	
3) Pyridine	3.688	79	725	N.D.	
4) 2-Picoline	4.547	93	195	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.057	80	77	N.D.	
8) 2-Fluorophenol	5.277	112	469458	33.831 ug/mL	92
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.747	79	1879	N.D.	
12) Phenol -D5	6.376	99	663207	38.834 ug/mL	87
13) Pentachloroethane	6.516	167	4354	N.D.	
14) aniline	6.526	93	209	N.D.	
15) Phenol	0.000		0	N.D.	
16) Bis(2-chloroethyl)ether	6.526	93	209	N.D.	
17) 2-Chlorophenol	6.606	128	537	N.D.	
18) 1,3-Dichlorobenzene	6.796	146	446	N.D.	
19) 1,4-Dichlorobenzene	6.796	146	446	N.D.	
20) Benzyl Alcohol	7.136	108	95	N.D.	
21) 1,2-Dichlorobenzene	7.076	146	527	N.D.	
22) 2-Methylphenol	7.126	107	150	N.D.	
23) Bis(2-chloroisopropyl)...	7.166	45	97	N.D.	
24) Acetophenone	7.326	105	373	N.D.	
25) 3 & 4-Methylphenol	7.306	108	211	N.D.	
26) N-Nitrosodi-n-propylamine	7.366	70	786	N.D.	
27) N-Nitrosopyrrolidine	7.296	100	88	N.D.	
28) N-Nitrosomorpholine	7.296	56	233	N.D.	
29) Hexachloroethane	7.486	117	77	N.D.	
30) o-Toluidine	7.456	106	206	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.526	82	499440	29.586 ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 16:46:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35)	Nitrobenzene	7.526	77	2671	N.D.	
36)	N-Nitrosopiperidine	0.000		0	N.D.	
37)	Isophorone	7.816	82	885	N.D.	
38)	2-Nitrophenol	0.000		0	N.D.	
39)	2,4-Dimethylphenol	0.000		0	N.D.	
40)	Bis(2-chloroethoxy)met...	8.080	93	99	N.D.	
41)	o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42)	Benzoic Acid	0.000		0	N.D.	
43)	2,4-Dichlorophenol	0.000		0	N.D.	
44)	1,2,4-Trichlorobenzene	8.360	180	694	N.D.	
45)	Naphthalene	8.453	128	968	N.D.	
46)	4-Chloroaniline	8.536	127	79	N.D.	
47)	2,6-Dichlorophenol	0.000		0	N.D.	
48)	Hexachloropropene	0.000		0	N.D.	
49)	Hexachlorobutadiene	0.000		0	N.D.	
50)	N-Nitrosodi-n-Butylamine	8.946	84	196	N.D.	
51)	p-Phenylenediamine	0.000		0	N.D.	
52)	4-Chloro-3-methylphenol	9.104	107	161	N.D.	
53)	Safrole	0.000		0	N.D.	
54)	2-Methylnaphthalene	9.319	142	547	N.D.	
55)	1-Methylnaphthalene	9.449	142	285	N.D.	
56)	Hexachlorocyclopentadiene	0.000		0	N.D.	
58)	1,2,4,5-Tetrachloroben...	9.533	216	333	N.D.	
59)	2,4,6-Trichlorophenol	9.710	196	97	N.D.	
60)	2,4,5-Trichlorophenol	9.710	196	97	N.D.	
62)	2-Fluorobiphenyl	9.765	172	693014	24.302 ug/mL	99
63)	Isosafrole	9.933	162	73	N.D.	
64)	2-Chloronaphthalene	9.933	162	73	N.D.	
65)	2-Nitroaniline	10.035	65	73	N.D.	
66)	1,4-Naphthoquinone	0.000		0	N.D.	
67)	Dimethyl phthalate	10.250	163	217	N.D.	
68)	m-Dinitrobenzene	0.000		0	N.D.	
69)	2,6-Dinitrotoluene	0.000		0	N.D.	
70)	Acenaphthylene	10.454	152	374	N.D.	
71)	3-Nitroaniline	10.594	138	91	N.D.	
72)	Acenaphthene	10.669	154	657	N.D.	
73)	2,4-Dinitrophenol	0.000		0	N.D.	
74)	Pentachlorobenzene	10.846	250	96	N.D.	
75)	4-Nitrophenol	10.753	109	900	N.D.	
76)	Dibenzofuran	10.883	168	398	N.D.	
77)	2,4-Dinitrotoluene	10.837	165	85	N.D.	
78)	2-Naphthylamine	0.000		0	N.D.	
79)	1-Naphthylamine	0.000		0	N.D.	
80)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81)	Diethyl phthalate	11.126	149	561	N.D.	
82)	4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83)	Fluorene	11.323	166	719	N.D.	
84)	Thionazin	11.312	107	215	N.D.	
85)	5-Nitro-o-toluidine	11.343	152	85	N.D.	
86)	4-Nitroaniline	11.312	138	81	N.D.	
87)	2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88)	Diphenylamine/N-Nitros...	11.453	169	466	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 16:46:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.453	169	466	N.D.	
90)	DPH (as Azobenzene)	11.513	182	254	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	158085	48.253 ug/mL	97
94)	Sulfotepp	11.624	97	958	N.D.	
95)	Diallate	11.795	86	76	N.D.	
96)	Phorate	11.734	75	276	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.102	87	109	N.D.	
102)	4-Aminobiphenyl	12.206	169	88	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	12.402	173	98	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.541	178	3942	N.D.	
107)	Disulfoton	12.448	88	132	N.D.	
108)	Anthracene	12.598	178	1613	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	282	N.D.	
111)	Methyl Parathion	12.933	109	832	N.D.	
112)	Di-n-butyl phthalate	13.176	149	3614	N.D.	
113)	Parathion	13.430	109	937	N.D.	
114)	4-Nitroquinoline-1-oxide	13.464	190	97	N.D.	
115)	Methapyrilene	13.487	97	1696	N.D.	
116)	Isodrin	13.847	193	369	N.D.	
117)	Fluoranthene	14.038	202	10257	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	8592	N.D.	
121)	Terphenyl -D14	14.490	244	1157230	58.957 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.093	149	616	N.D.	
125)	p-(dimethylamino)azobe...	14.490	225	6196	N.D.	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.103	212	338	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.063	228	7941	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	17444	N.D.	
134)	Chrysene	16.118	228	5916	N.D.	
135)	Di-n-octyl phthalate	17.265	149	777	N.D.	
136)	Hexachlorophene	19.023	196	759	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.108	256	65	N.D.	
139)	Benzo(b)fluoranthene	18.243	252	9074	N.D.	
140)	Benzo(k)fluoranthene	18.243	252	9074	N.D.	
141)	Benzo(a)pyrene	18.904	252	2411	N.D.	
142)	3-Methylcholanthrene	19.549	268	224	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	1959	N.D.	
144)	Dibenzo(a,h)anthracene	20.572	278	246	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	1764	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 16:46:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

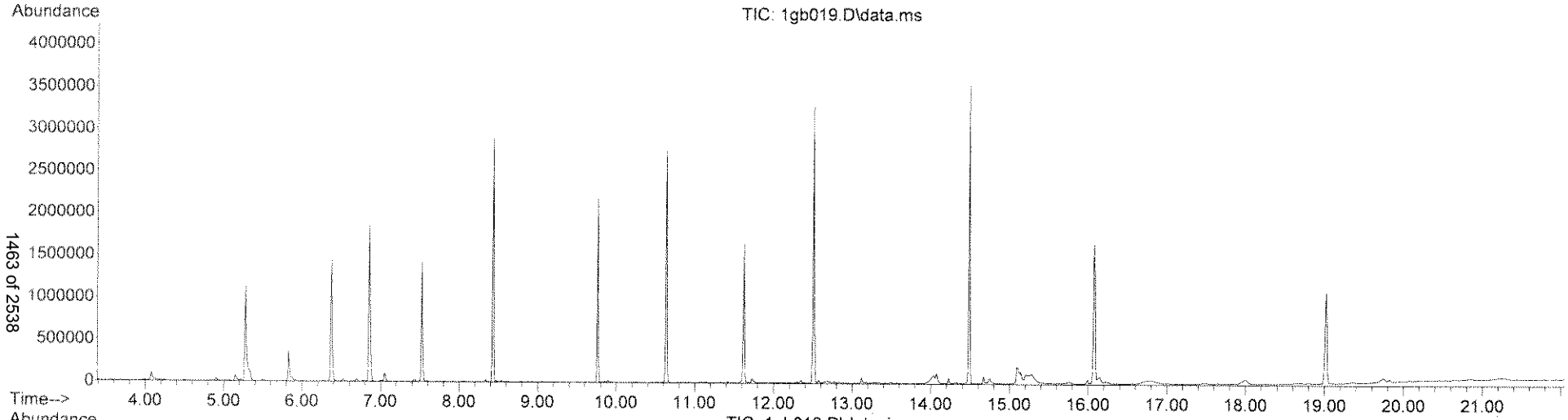
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

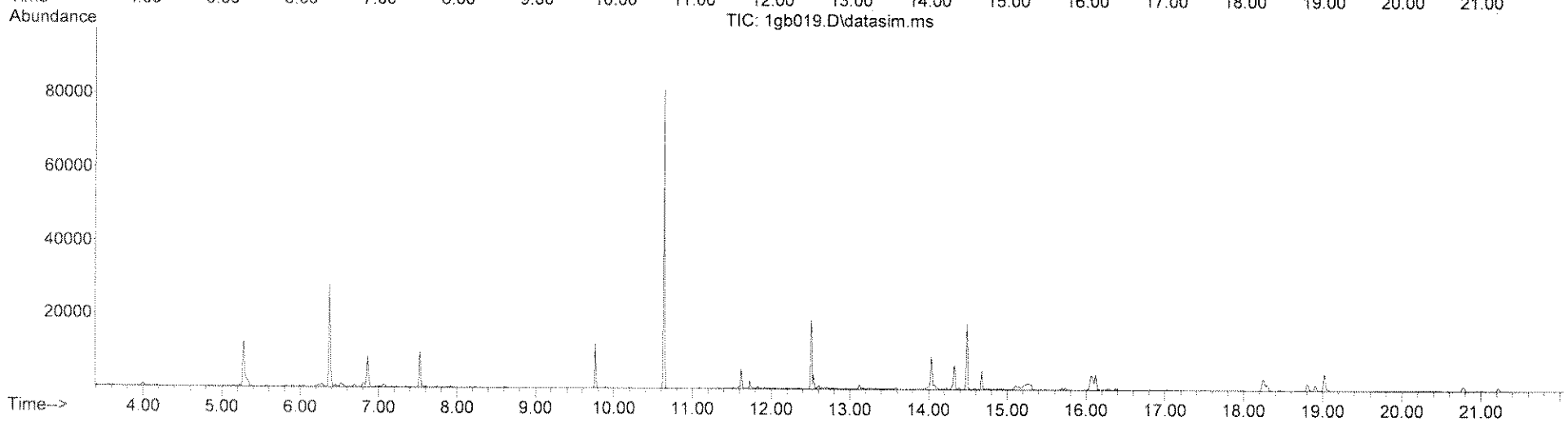
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 16:46:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 23:41:23 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

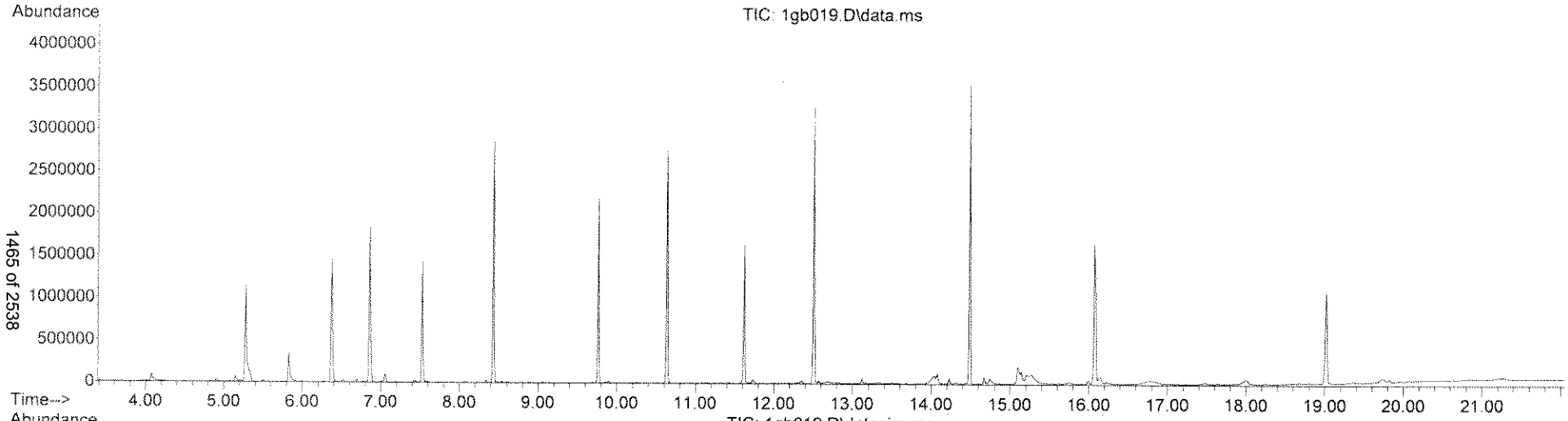
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	352014	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1442700	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.632	164	764152	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1279386	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	949487	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.023	264	682114	40.00	ug/mL	-0.05
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	294	N.D.		
4) Caprolactam	8.881	113	469	N.D.		
6) 1,1'-Biphenyl	9.886	154	303	N.D.		
7) Atrazine	0.000		0	N.D.		

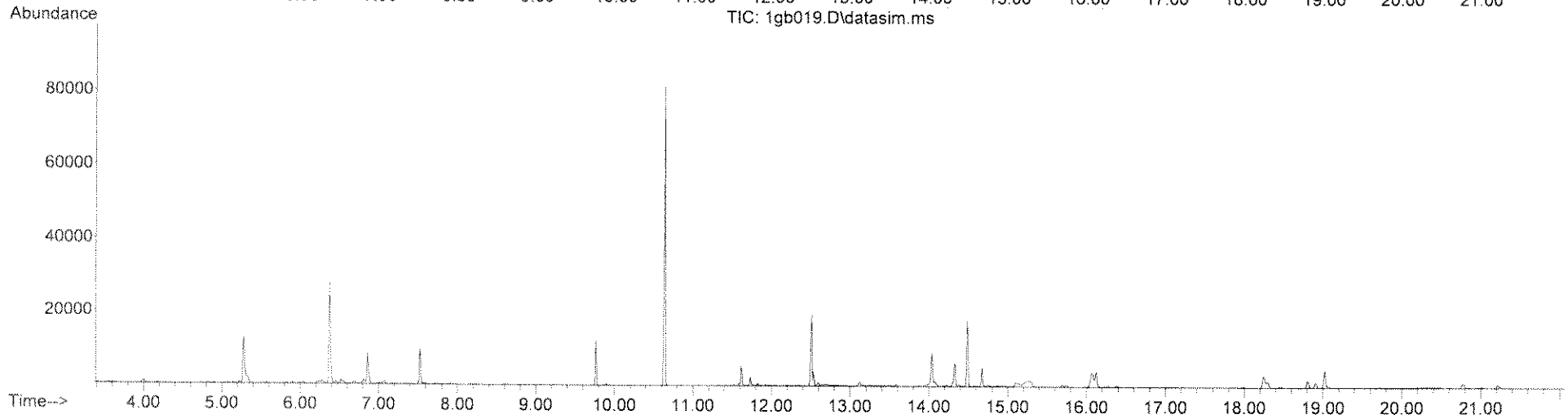
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 07 23:41:23 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb019.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	67	70	83	rBV	93123	209338	6.04%	0.625%
2	4.897	150	152	158	rBV	27898	50598	1.46%	0.151%
3	5.147	174	177	182	rBV	65270	116776	3.37%	0.349%
4	5.277	187	190	200	rBV	1139077	1852251	53.48%	5.534%
5	5.827	242	245	252	rBV	353166	553505	15.98%	1.654%
6	6.376	297	300	310	rVB	1455141	1970984	56.91%	5.889%
7	6.516	312	314	321	rVB2	28408	48551	1.40%	0.145%
8	6.696	326	332	335	rVB3	31457	46903	1.35%	0.140%
9	6.856	345	348	353	rBV	1835435	2331728	67.33%	6.967%
10	7.056	365	368	374	rVB	99523	149801	4.33%	0.448%
11	7.436	403	406	412	rVB	26726	39002	1.13%	0.117%
12	7.526	412	415	418	rBV	1424117	1507725	43.54%	4.505%
13	8.341	496	499	502	rBV	29299	34697	1.00%	0.104%
14	8.434	506	509	512	rBV	2889891	3104491	89.64%	9.275%
15	9.765	649	652	655	rBV	2175279	2178801	62.91%	6.510%
16	10.632	742	745	748	rBV	2748389	3265833	94.30%	9.758%
17	11.624	846	849	852	rVB	1621093	1613821	46.60%	4.822%
18	11.734	857	860	866	rVB3	47699	87374	2.52%	0.261%
19	12.356	915	918	920	rBV2	29911	44102	1.27%	0.132%
20	12.506	928	931	934	rBV	3277773	3275351	94.58%	9.786%
21	12.691	941	947	952	rBV2	19482	76693	2.21%	0.229%
22	13.118	981	984	987	rBV	61643	72151	2.08%	0.216%
23	14.038	1056	1069	1071	rBV2	97209	387230	11.18%	1.157%
24	14.078	1071	1073	1080	rVB	119821	188224	5.44%	0.562%
25	14.229	1085	1088	1093	rVB	70124	74682	2.16%	0.223%
26	14.490	1111	1114	1117	rVB	3529196	3463157	100.00%	10.347%
27	14.671	1129	1132	1134	rBV	85112	94518	2.73%	0.282%
28	14.741	1136	1139	1146	rVB2	56892	137625	3.97%	0.411%
29	15.103	1169	1175	1178	rBV	194019	523271	15.11%	1.563%
30	15.203	1183	1185	1186	rBV	63050	80731	2.33%	0.241%
31	15.755	1229	1236	1243	rVB6	21405	79224	2.29%	0.237%
32	15.997	1254	1258	1261	rBV	42916	73499	2.12%	0.220%
33	16.074	1261	1265	1268	rVV	1647878	2611384	75.40%	7.802%
34	16.140	1268	1271	1277	rVV2	74861	245638	7.09%	0.734%
35	16.229	1277	1279	1285	rVB	26708	70536	2.04%	0.211%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	16.769	1313	1328	1345	rBV2	38037	436087	12.59%	1.303%
37	17.485	1390	1393	1398	rVB6	13494	39724	1.15%	0.119%
38	18.003	1431	1440	1451	rVB2	55315	239698	6.92%	0.716%
39	19.023	1554	1560	1569	rVB	1066016	1924063	55.56%	5.749%
40	19.743	1639	1645	1652	rVV5	36017	119137	3.44%	0.356%
41	19.828	1652	1655	1660	rVB7	28658	50924	1.47%	0.152%

Sum of corrected areas: 33469828

Signal : TIC: 1gb019.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

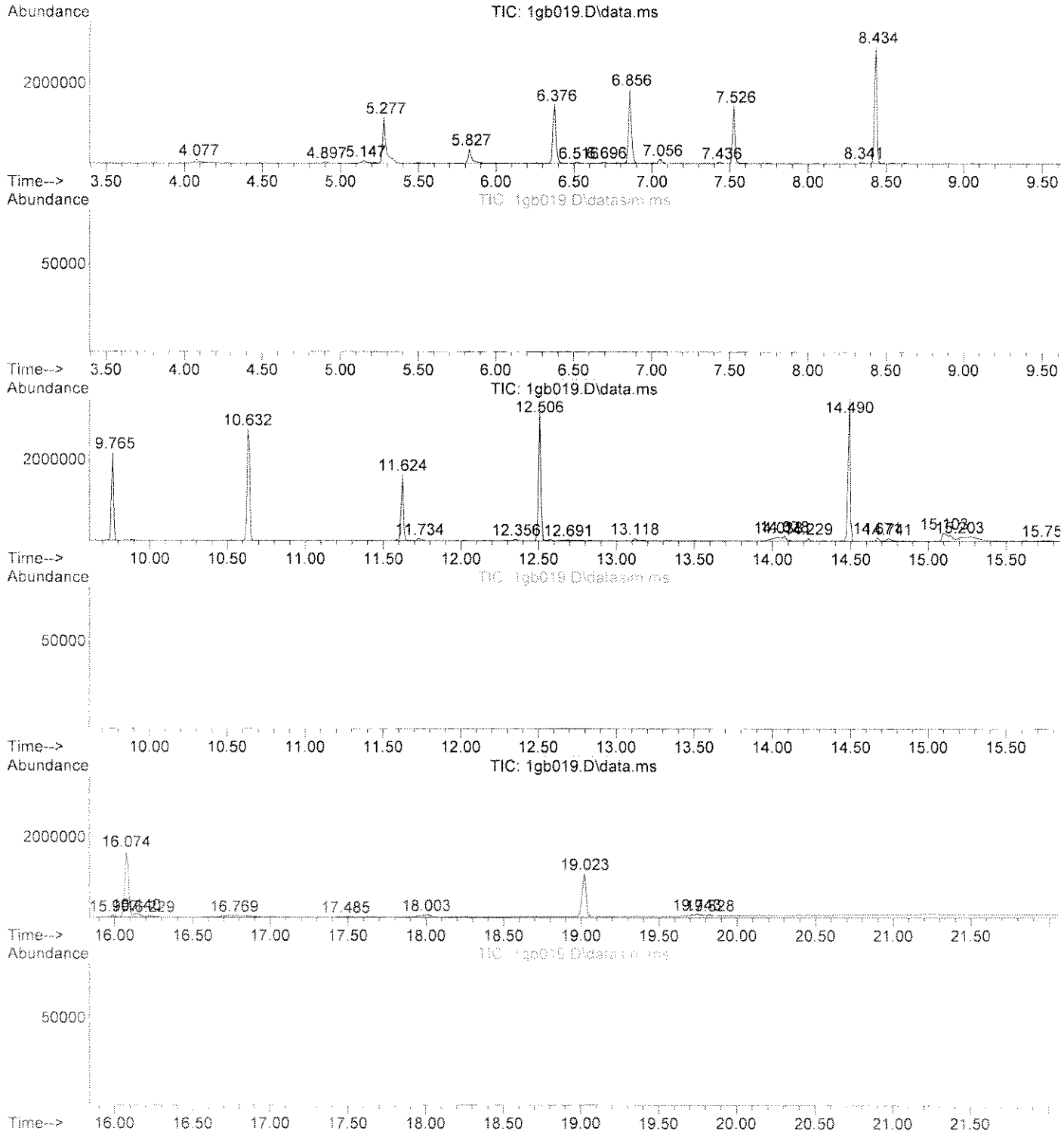
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.038	4.73	387230	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	49
2	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	43
3	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	40
4	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	40
5	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	38

****
Peak Number 2 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.103	8.02	523271	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
3	Tetradecanamide	227	C14H29NO	000638-58-4	64
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
5	Dodecanamide	199	C12H25NO	001120-16-7	53

****
Peak Number 3 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.769	6.68	436087	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanol, 2,6-dimethyl-	144	C9H20O	013254-34-7	47
2	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	40
3	2,5,8,11-Tetraoxatetradecan-13-o...	264	C13H28O5	020324-34-9	38
4	2,3-Butanediol, 2,3-dimethyl-	118	C6H14O2	000076-09-5	38
5	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	38

****
Peak Number 4 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.003	4.98	239698	PERYLENE-D12	19.023

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dipropylene glycol	134	C6H14O3	025265-71-8	47
2	3-Hexanol, 1,5-dimethoxy-2,4-dim...	190	C10H22O3	013897-22-8	42
3	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	38
4	Propanoic acid, 3-ethoxy-, ethyl...	146	C7H14O3	000763-69-9	38
5	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	38

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb019.D
Acq On : 7 Jul 2013 15:41
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown	14.038	4.7		387230	4	12.506	3275350	40.0
unknown	15.103	8.0		523271	5	16.074	2611380	40.0
unknown	16.769	6.7		436087	5	16.074	2611380	40.0
unknown	18.003	5.0		239698	6	19.023	1924060	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 16:46:49 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	390073	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1649444	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.631	164	921355	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1460163	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	978658	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.023	264	677673	40.00	ug/mL	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	634677	41.28	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 41.28%			
11) Phenol -D5 (acid surr)	6.376	99	941075	49.73	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 49.73%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	692128	35.86	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 35.86%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1065473	30.99	ug/mL	0.00
Spiked Amount 100.000			Recovery = 30.99%			
91) 2,4,6-Tribromophenol (...	11.624	330	191870	48.57	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 48.57%			
120) Terphenyl -D14 (b/n surr)	14.490	244	1403947	62.67	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 62.67%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.617	74	76	N.D.		
3) Pyridine	3.687	79	790	N.D.		
4) 2-Picoline	4.557	93	328	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	5.157	80	1075	N.D.		
8) 2-Fluorophenol	5.277	112	634677	41.275	ug/mL	95
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	6.036	79	1922	N.D.		
12) Phenol -D5	6.376	99	941075	49.728	ug/mL	87
13) Pentachloroethane	6.516	167	6228	1.005	ug/mL	90
14) aniline	6.516	93	134	N.D.		
15) Phenol	6.516	94	1775	N.D.		
16) Bis(2-chloroethyl)ether	6.516	93	134	N.D.		
17) 2-Chlorophenol	6.606	128	528	N.D.		
18) 1,3-Dichlorobenzene	6.796	146	335	N.D.		
19) 1,4-Dichlorobenzene	6.876	146	451	N.D.		
20) Benzyl Alcohol	6.996	108	218	N.D.		
21) 1,2-Dichlorobenzene	7.066	146	566	N.D.		
22) 2-Methylphenol	7.026	107	882	N.D.		
23) Bis(2-chloroisopropyl)...	7.036	45	420	N.D.		
24) Acetophenone	7.326	105	311	N.D.		
25) 3 & 4-Methylphenol	7.296	108	80	N.D.		
26) N-Nitrosodi-n-propylamine	7.356	70	690	N.D.		
27) N-Nitrosopyrrolidine	7.166	100	205	N.D.		
28) N-Nitrosomorpholine	7.346	56	118	N.D.		
29) Hexachloroethane	7.496	117	172	N.D.		
30) o-Toluidine	7.456	106	163	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	692128	35.861	ug/mL	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 16:46:49 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.676	77	119	N.D.	
36) N-Nitrosopiperidine	7.816	114	424	N.D.	
37) Isophorone	7.806	82	1050	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	0.000		0	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	842	N.D.	
45) Naphthalene	8.453	128	259	N.D.	
46) 4-Chloroaniline	8.536	127	190	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.927	84	252	N.D.	
51) p-Phenylenediamine	9.086	108	79	N.D.	
52) 4-Chloro-3-methylphenol	9.086	107	85	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.318	142	97	N.D.	
55) 1-Methylnaphthalene	9.318	142	97	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	573	N.D.	
59) 2,4,6-Trichlorophenol	9.663	196	207	N.D.	
60) 2,4,5-Trichlorophenol	9.663	196	207	N.D.	
62) 2-Fluorobiphenyl	9.765	172	1065473	30.989 ug/mL	100
63) Isosafrole	9.849	162	359	N.D.	
64) 2-Chloronaphthalene	9.924	162	713	N.D.	
65) 2-Nitroaniline	9.924	65	884	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.249	163	324	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	10.454	152	125	N.D.	
71) 3-Nitroaniline	10.575	138	72	N.D.	
72) Acenaphthene	10.631	154	3435	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	10.855	250	85	N.D.	
75) 4-Nitrophenol	10.781	109	733	N.D.	
76) Dibenzofuran	10.893	168	293	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	10.958	143	72	N.D.	
79) 1-Naphthylamine	11.210	143	71	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	889	N.D.	
82) 4-Chlorophenyl phenyl ...	11.312	204	89	N.D.	
83) Fluorene	11.312	166	204	N.D.	
84) Thionazin	11.228	107	208	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	11.443	138	343	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.503	169	169	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 16:46:49 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.503	169	169	N.D.	
90)	DPH (as Azobenzene)	11.503	182	1389	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	191870	48.573 ug/mL	97
94)	Sulfotepp	11.604	97	606	N.D.	
95)	Diallate	11.815	86	98	N.D.	
96)	Phorate	11.805	75	103	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.036	87	128	N.D.	
102)	4-Aminobiphenyl	12.321	169	99	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.541	178	2259	N.D.	
107)	Disulfoton	12.356	88	257	N.D.	
108)	Anthracene	12.598	178	348	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	593	N.D.	
111)	Methyl Parathion	12.910	109	2734	N.D.	
112)	Di-n-butyl phthalate	13.175	149	3153	N.D.	
113)	Parathion	13.429	109	508	N.D.	
114)	4-Nitroquinoline-1-oxide	13.499	190	95	N.D.	
115)	Methapyrilene	13.487	97	472	N.D.	
116)	Isodrin	13.877	193	155	N.D.	
117)	Fluoranthene	14.038	202	5341	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	4054	N.D.	
121)	Terphenyl -D14	14.490	244	1403947	62.671 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.113	149	90	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.545	181	681	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.085	228	4009	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	12555	N.D.	
134)	Chrysene	16.085	228	4009	N.D.	
135)	Di-n-octyl phthalate	17.265	149	161	N.D.	
136)	Hexachlorophene	19.014	196	469	No Calib	#
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	18.235	252	1091	N.D.	
140)	Benzo(k)fluoranthene	18.235	252	1091	N.D.	
141)	Benzo(a)pyrene	18.904	252	625	N.D.	
142)	3-Methylcholanthrene	19.396	268	142	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	600	N.D.	
144)	Dibenzo(a,h)anthracene	20.795	278	550	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	693	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 16:46:49 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

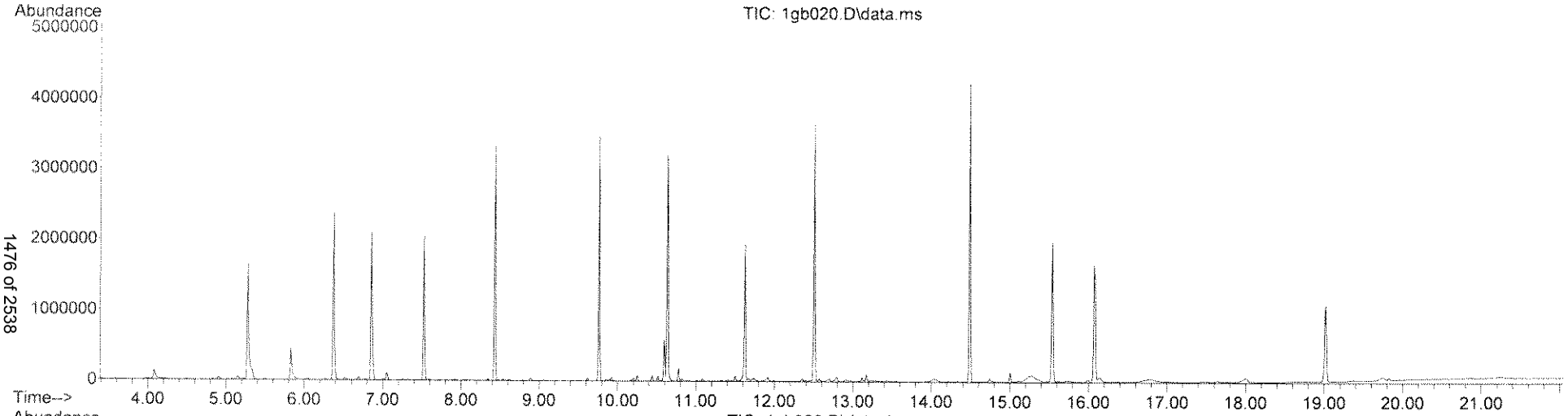
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

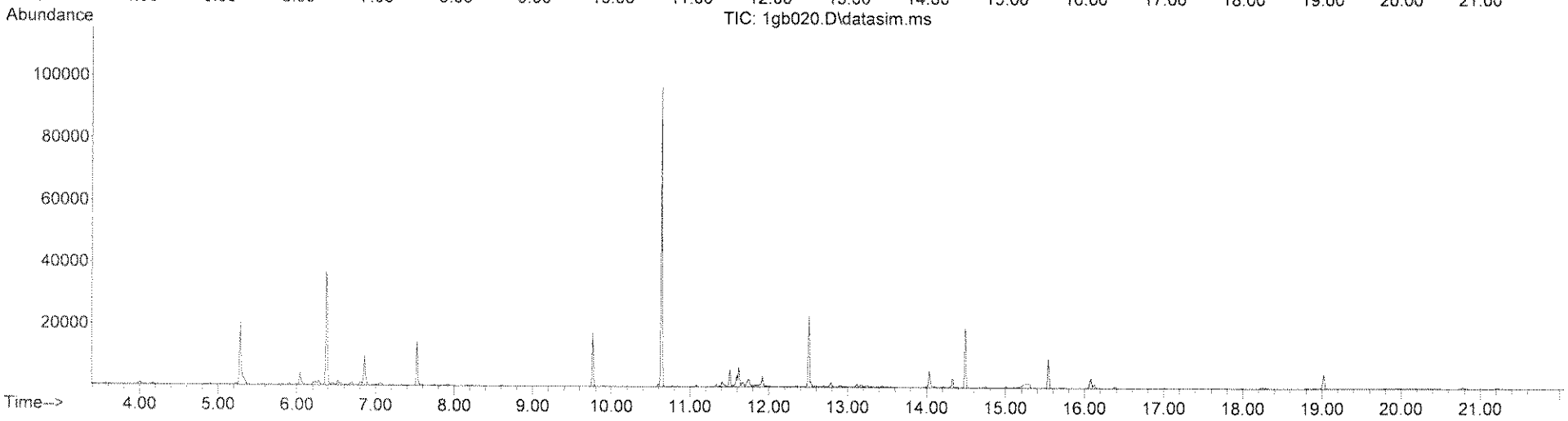
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 16:46:49 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 23:41:25 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

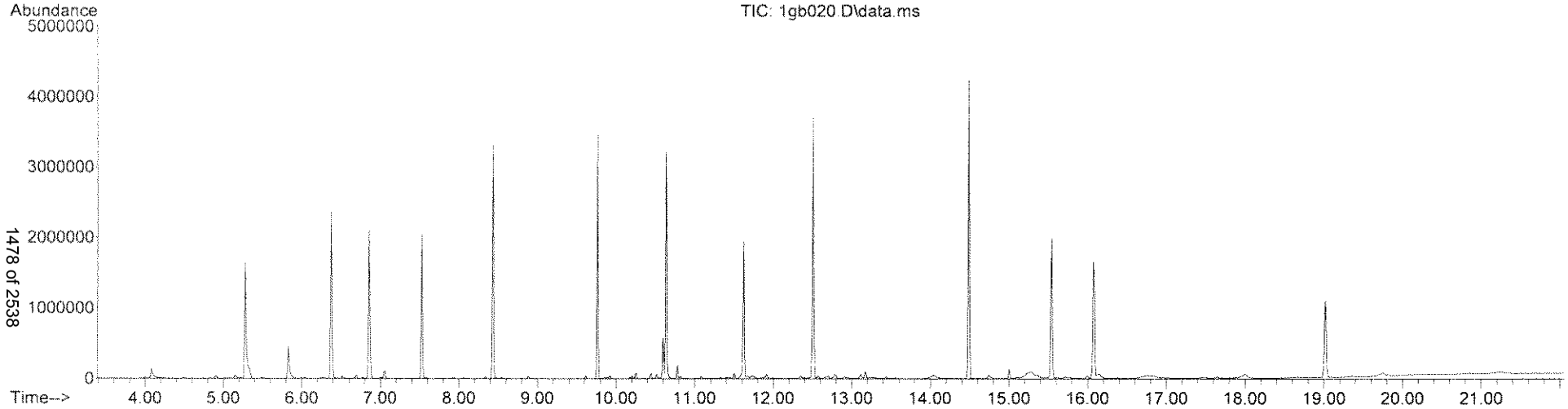
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	390073	40.00 ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1649444	40.00 ug/mL	-0.03
5) ACENAPHTHENE-d10	10.631	164	921355	40.00 ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1460163	40.00 ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	978658	40.00 ug/mL	-0.06
10) PERYLENE-d12	19.023	264	677673	40.00 ug/mL	-0.05
Target Compounds					Qvalue
2) Benzaldehyde	6.326	106	775	N.D.	
4) Caprolactam	8.881	113	3667	1.032 ug/mL#	71
6) 1,1'-Biphenyl	9.896	154	218	N.D.	
7) Atrazine	0.000		0	N.D.	

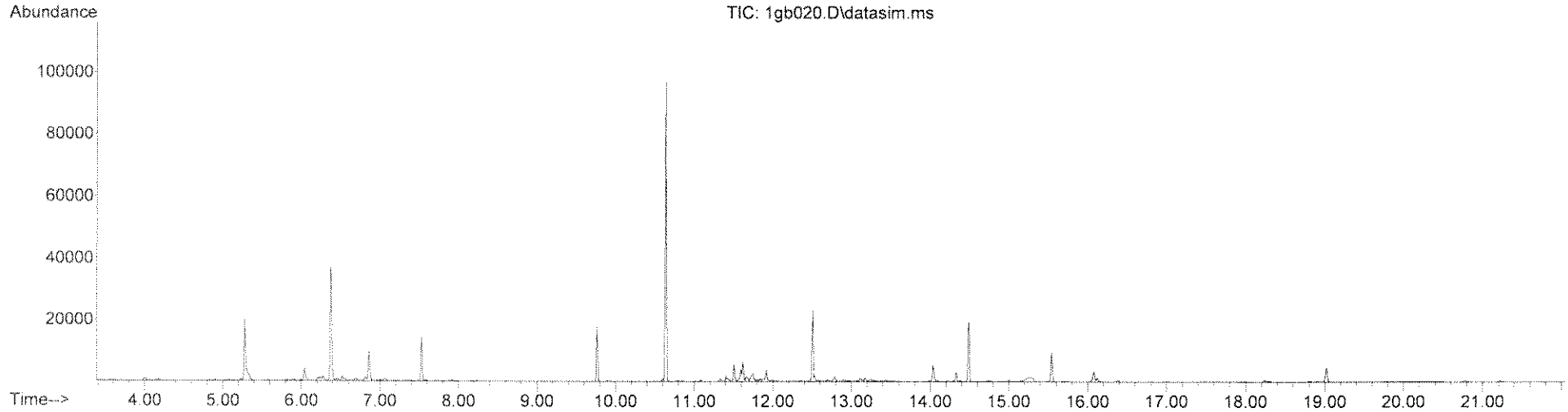
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 07 23:41:25 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb020.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	67	70	79	rBV	131396	257046	6.15%	0.604%
2	4.897	150	152	159	rBV	37624	63824	1.53%	0.150%
3	5.147	174	177	182	rBV	53984	85124	2.04%	0.200%
4	5.277	187	190	205	rVB	1652962	2567969	61.40%	6.030%
5	5.827	242	245	251	rBV	455923	695537	16.63%	1.633%
6	6.376	297	300	310	rVV	2368159	2786281	66.62%	6.542%
7	6.516	312	314	320	rVB2	38031	57744	1.38%	0.136%
8	6.696	327	332	335	rBV	53133	75928	1.82%	0.178%
9	6.856	345	348	353	rVB	2093682	2602463	62.23%	6.111%
10	7.056	365	368	374	rVB	107661	164240	3.93%	0.386%
11	7.526	412	415	418	rBV	2042685	2096752	50.13%	4.923%
12	8.434	506	509	512	rBV	3326945	3571781	85.40%	8.387%
13	8.881	555	557	561	rBV2	36203	43810	1.05%	0.103%
14	9.616	632	636	639	rBV	40464	41957	1.00%	0.099%
15	9.765	649	652	655	rVB	3480064	3327785	79.57%	7.814%
16	9.924	667	669	672	rVB	45943	48811	1.17%	0.115%
17	10.249	702	704	707	rVB	85005	90092	2.15%	0.212%
18	10.445	722	725	727	rVB	72318	73959	1.77%	0.174%
19	10.519	729	733	735	rBV	67252	83706	2.00%	0.197%
20	10.594	738	741	743	rBV	568833	636132	15.21%	1.494%
21	10.631	743	745	748	rVV	3157331	3780804	90.40%	8.878%
22	10.781	758	761	764	rBV	193165	222389	5.32%	0.522%
23	11.503	834	837	839	rBV	80497	90140	2.16%	0.212%
24	11.624	846	849	851	rVB	1921295	1927216	46.08%	4.525%
25	11.674	851	854	856	rVB3	24145	46510	1.11%	0.109%
26	11.724	856	859	860	rBV2	30621	53283	1.27%	0.125%
27	11.744	860	861	867	rVB5	39613	47716	1.14%	0.112%
28	11.915	876	878	884	rVB	64804	76175	1.82%	0.179%
29	12.506	928	931	934	rVV	3697589	3750634	89.68%	8.807%
30	12.575	934	937	941	rVB	39308	52777	1.26%	0.124%
31	12.702	941	948	951	rBV2	33019	76651	1.83%	0.180%
32	12.783	951	955	959	rVB3	55724	117456	2.81%	0.276%
33	13.118	981	984	987	rBV	55526	66583	1.59%	0.156%
34	13.175	987	989	991	rVB	97681	112669	2.69%	0.265%
35	14.038	1060	1069	1070	rBV	44105	116258	2.78%	0.273%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	14.490	1111	1114	1117	rVB	4222197	4182342	100.00%	9.821%
37	14.741	1137	1139	1147	rVB	47498	86640	2.07%	0.203%
38	15.002	1162	1165	1168	rBV	135165	149505	3.57%	0.351%
39	15.243	1179	1189	1190	rBV5	72496	244252	5.84%	0.574%
40	15.369	1199	1201	1207	rVB	42247	74470	1.78%	0.175%
41	15.545	1213	1217	1220	rVB	1966463	2612467	62.46%	6.134%
42	15.997	1254	1258	1261	rBV	34524	57742	1.38%	0.136%
43	16.074	1261	1265	1268	rVV	1656321	2680208	64.08%	6.293%
44	16.140	1268	1271	1282	rVB2	61872	211347	5.05%	0.496%
45	16.758	1313	1327	1330	rBV	38692	229872	5.50%	0.540%
46	17.485	1385	1393	1398	rBV9	12386	55765	1.33%	0.131%
47	18.003	1436	1440	1448	rVB3	49871	152012	3.63%	0.357%
48	19.023	1553	1560	1567	rBV	1074525	1895238	45.32%	4.450%
49	19.820	1652	1654	1659	rVB5	27866	47663	1.14%	0.112%

Sum of corrected areas: 42587725

Signal : TIC: 1gb020.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

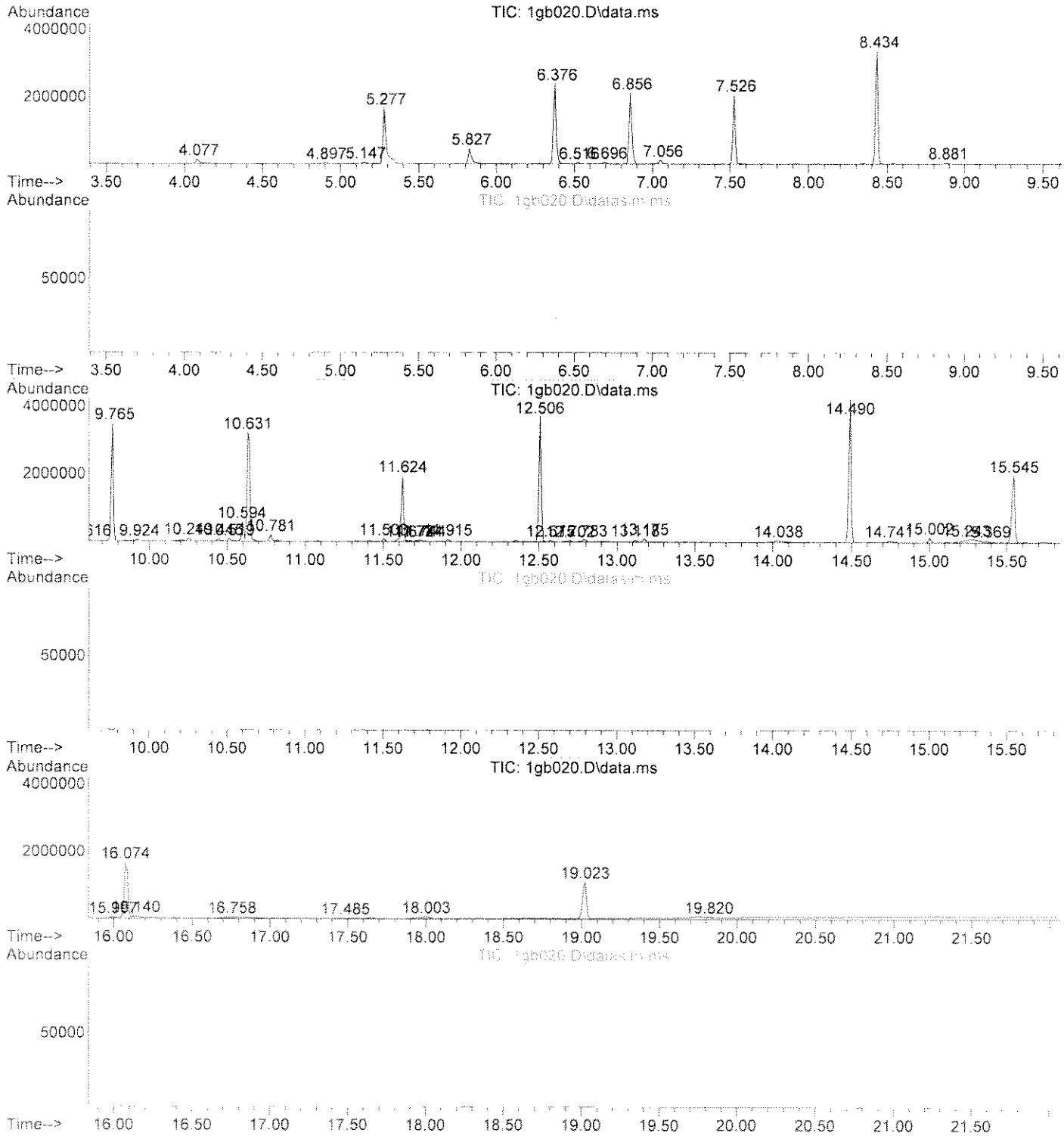
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Cinnamyl cinnamate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.545	38.99	2612470	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cinnamyl cinnamate	264	C18H16O2	000122-69-0	86
2	3-p-Tolylprop-2-enal	146	C10H10O	1000202-14-8	56
3	2,2-Dimethyl-1-(2-vinylphenyl)pr...	188	C13H16O	1000210-99-9	50
4	Cinnamoylglycine, methyl ester	219	C12H13NO3	040778-04-9	49
5	2-Propenoic acid, 3-phenyl-, 4-m...	238	C16H14O2	010519-07-0	47

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb020.D
Acq On : 7 Jul 2013 16:09
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Cinnamyl cinnamate	15.545	39.0		2612470	5	16.074	2680210	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 17:00:50 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	388747	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1630586	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.631	164	880249	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1360656	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	842885	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.015	264	545032	40.00	ug/mL	-0.03
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	599636	39.13	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 39.13%			
11) Phenol -D5 (acid surr)	6.376	99	845691	44.84	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 44.84%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	673935	35.32	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 35.32%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	988719	30.10	ug/mL	0.00
Spiked Amount 100.000			Recovery = 30.10%			
91) 2,4,6-Tribromophenol (...	11.624	330	181507	48.09	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 48.09%			
120) Terphenyl -D14 (b/n surr)	14.490	244	1279347	61.29	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 61.29%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.598	74	216	N.D.		
3) Pyridine	3.687	79	1468	N.D.		
4) 2-Picoline	4.637	93	106	N.D.		
5) N-Nitrosomethylethylamine	4.737	88	89	N.D.		
6) Methyl methanesulfonate	5.087	80	76	N.D.		
8) 2-Fluorophenol	5.277	112	599636	39.129	ug/mL	94
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.897	79	76	N.D.		
12) Phenol -D5	6.376	99	845691	44.840	ug/mL	88
13) Pentachloroethane	6.516	167	4672	N.D.		
14) aniline	6.536	93	178	N.D.		
15) Phenol	0.000		0	N.D.		
16) Bis(2-chloroethyl)ether	6.516	93	190	N.D.		
17) 2-Chlorophenol	6.606	128	348	N.D.		
18) 1,3-Dichlorobenzene	6.796	146	468	N.D.		
19) 1,4-Dichlorobenzene	6.886	146	312	N.D.		
20) Benzyl Alcohol	7.056	108	208	N.D.		
21) 1,2-Dichlorobenzene	7.066	146	340	N.D.		
22) 2-Methylphenol	7.006	107	212	N.D.		
23) Bis(2-chloroisopropyl)...	7.186	45	549	N.D.		
24) Acetophenone	0.000		0	N.D.		
25) 3 & 4-Methylphenol	7.336	108	110	N.D.		
26) N-Nitrosodi-n-propylamine	7.366	70	1107	N.D.		
27) N-Nitrosopyrrolidine	7.166	100	326	N.D.		
28) N-Nitrosomorpholine	7.396	56	124	N.D.		
29) Hexachloroethane	7.496	117	78	N.D.		
30) o-Toluidine	0.000		0	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	673935	35.323	ug/mL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 17:00:50 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.516	77	1404	N.D.	
36) N-Nitrosopiperidine	7.806	114	295	N.D.	
37) Isophorone	7.856	82	104	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.996	122	276	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	647	N.D.	
45) Naphthalene	8.453	128	480	N.D.	
46) 4-Chloroaniline	8.453	127	90	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.881	84	1559	N.D.	
51) p-Phenylenediamine	8.825	108	77	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	0.000		0	N.D.	
55) 1-Methylnaphthalene	0.000		0	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	425	N.D.	
59) 2,4,6-Trichlorophenol	9.663	196	96	N.D.	
60) 2,4,5-Trichlorophenol	9.663	196	96	N.D.	
62) 2-Fluorobiphenyl	9.765	172	988719	30.099 ug/mL	100
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	9.924	65	269	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	0.000		0	N.D.	
68) m-Dinitrobenzene	10.417	168	72	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	0.000		0	N.D.	
71) 3-Nitroaniline	0.000		0	N.D.	
72) Acenaphthene	10.631	154	3148	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	10.846	250	171	N.D.	
75) 4-Nitrophenol	10.809	109	87	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	10.818	143	76	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	1836	N.D.	
82) 4-Chlorophenyl phenyl ...	11.200	204	77	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	11.219	107	78	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.503	169	110	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 17:00:50 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.503	169	110	N.D.	
90)	DPH (as Azobenzene)	11.503	182	480	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	181507	48.095 ug/mL	98
94)	Sulfotepp	11.624	97	143	N.D.	
95)	Diallate	11.734	86	127	N.D.	
96)	Phorate	11.825	75	80	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.624	213	82	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	731	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.506	178	731	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.795	167	231	N.D.	
111)	Methyl Parathion	12.910	109	448	N.D.	
112)	Di-n-butyl phthalate	13.176	149	4980	N.D.	
113)	Parathion	13.429	109	279	N.D.	
114)	4-Nitroquinoline-1-oxide	13.522	190	106	N.D.	
115)	Methapyrilene	13.556	97	218	N.D.	
116)	Isodrin	13.887	193	96	N.D.	
117)	Fluoranthene	14.038	202	275	N.D.	
118)	Benzidine	13.847	184	125	N.D.	
119)	Pyrene	14.319	202	171	N.D.	
121)	Terphenyl -D14	14.490	244	1279347	61.286 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.103	149	439	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.534	181	93	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.074	228	1736	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	15802	N.D.	
134)	Chrysene	16.118	228	105	N.D.	
135)	Di-n-octyl phthalate	17.243	149	273	N.D.	
136)	Hexachlorophene	19.006	196	288	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.904	252	188	N.D.	
142)	3-Methylcholanthrene	19.447	268	199	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.777	276	527	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	221	N.D.	
145)	Benzo(g,h,i)perylene	21.225	276	500	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 17:00:50 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

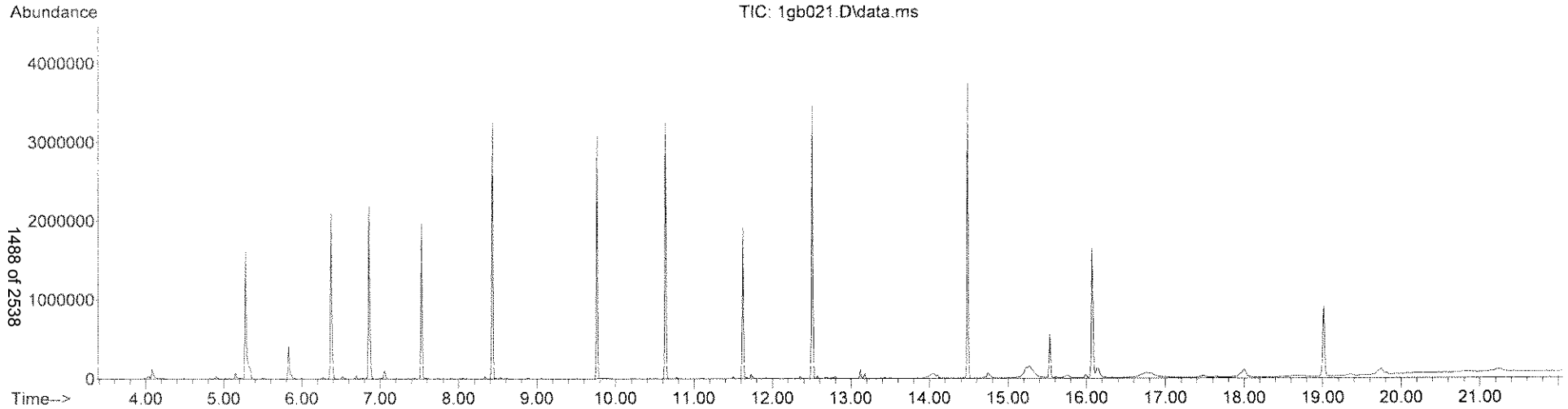
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

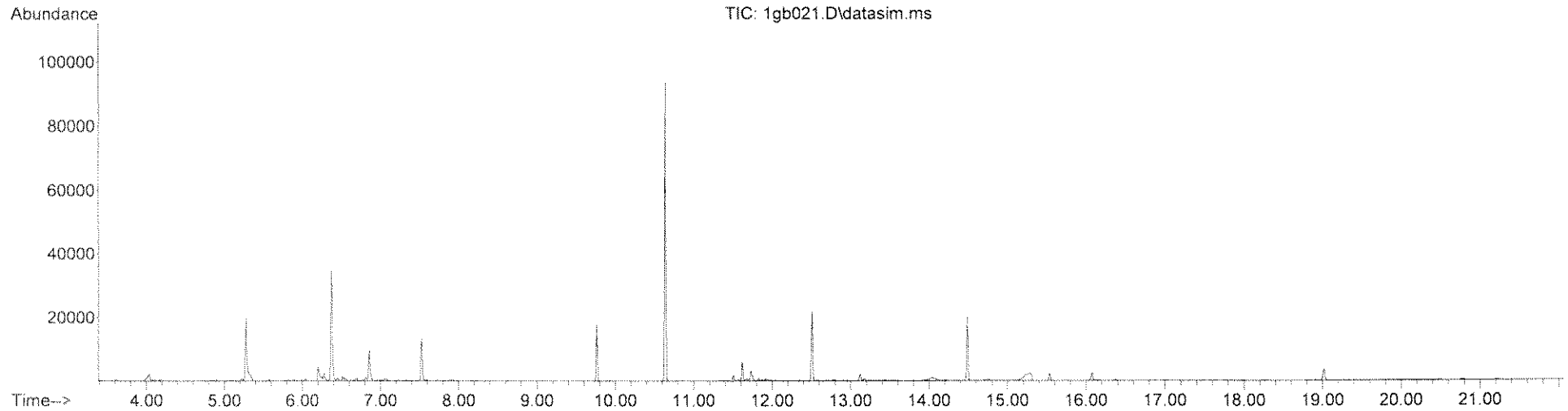
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 17:00:50 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 23:41:27 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

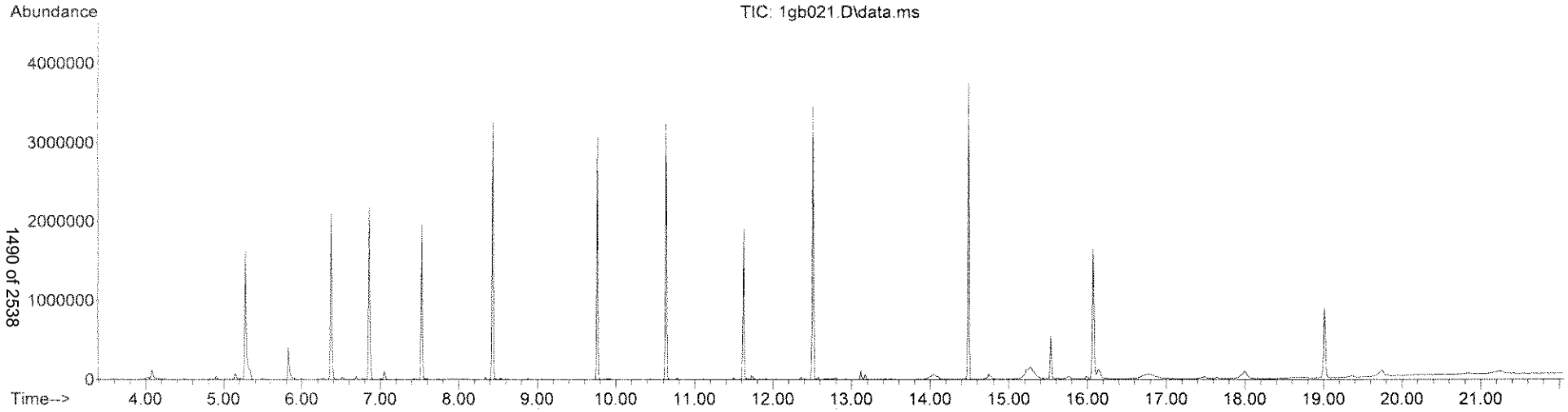
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	388747	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1630586	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.631	164	880249	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1360656	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	842885	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.015	264	545032	40.00	ug/mL	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	252	N.D.		
4) Caprolactam	8.881	113	2221	N.D.		
6) 1,1'-Biphenyl	9.765	154	1712	N.D.		
7) Atrazine	0.000		0	N.D.		

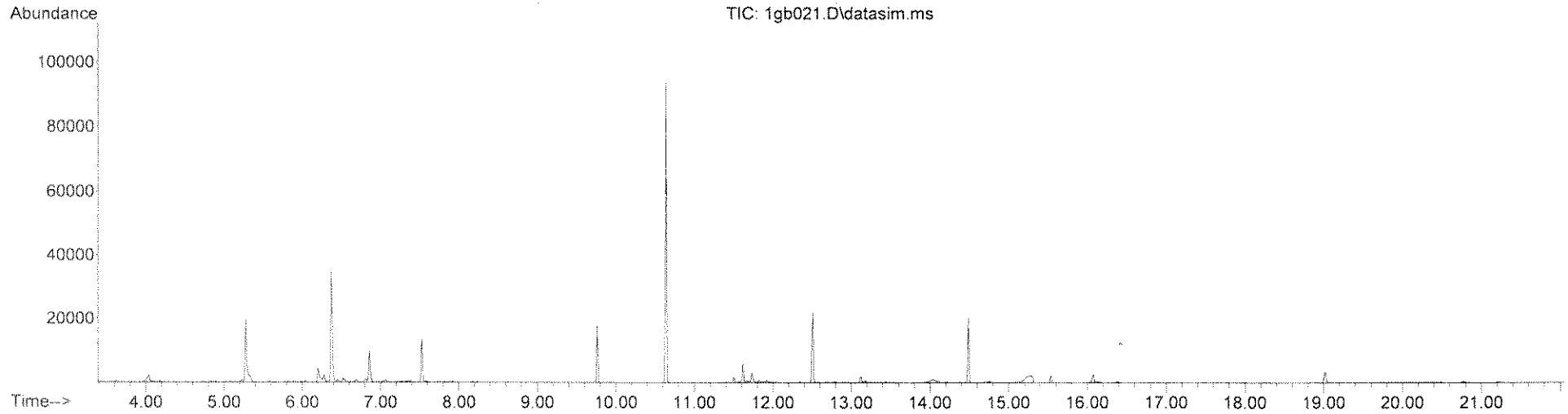
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 07 23:41:27 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb021.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.037	58	66	68	rBV2	32682	88512	2.32%	0.226%
2	4.077	68	70	81	rVV	113368	222776	5.85%	0.570%
3	4.907	150	153	159	rVB	36197	59056	1.55%	0.151%
4	5.147	174	177	182	rBV	79927	128267	3.37%	0.328%
5	5.277	187	190	203	rVB	1625493	2416496	63.47%	6.179%
6	5.497	208	212	218	rBV3	18731	42562	1.12%	0.109%
7	5.827	242	245	251	rBV	415321	616983	16.20%	1.578%
8	6.376	297	300	306	rVB	2103484	2529594	66.44%	6.468%
9	6.516	312	314	320	rVB	32970	51090	1.34%	0.131%
10	6.696	327	332	335	rBV2	46459	68550	1.80%	0.175%
11	6.856	345	348	353	rBV	2175311	2619205	68.79%	6.698%
12	7.056	365	368	375	rVB	103278	157746	4.14%	0.403%
13	7.526	412	415	418	rBV	1957192	2021514	53.09%	5.169%
14	8.434	505	509	512	rBV	3267636	3567619	93.70%	9.123%
15	9.765	649	652	654	rBV	3078722	3103306	81.51%	7.935%
16	10.631	742	745	748	rBV	3255599	3734150	98.08%	9.549%
17	11.624	846	849	852	rBV	1908494	1901528	49.94%	4.862%
18	11.724	857	859	867	rVB	57036	96380	2.53%	0.246%
19	12.506	928	931	934	rBV	3457633	3544057	93.08%	9.062%
20	13.118	982	984	987	rBV	111226	122767	3.22%	0.314%
21	13.176	987	989	991	rVB	64878	74724	1.96%	0.191%
22	14.038	1060	1069	1074	rBV2	58828	284339	7.47%	0.727%
23	14.108	1074	1076	1083	rVB	37317	62146	1.63%	0.159%
24	14.490	1111	1114	1116	rBV	3758609	3807376	100.00%	9.736%
25	14.741	1136	1139	1148	rVB2	63870	162474	4.27%	0.415%
26	15.233	1174	1188	1189	rBV3	123434	394698	10.37%	1.009%
27	15.273	1190	1192	1210	rVV	151950	688240	18.08%	1.760%
28	15.534	1213	1216	1219	rVB	541864	654151	17.18%	1.673%
29	15.755	1230	1236	1246	rVB3	31779	121674	3.20%	0.311%
30	15.997	1254	1258	1261	rBV	36494	62382	1.64%	0.160%
31	16.074	1261	1265	1268	rVV	1636369	2388089	62.72%	6.107%
32	16.140	1268	1271	1285	rVB2	120322	402855	10.58%	1.030%
33	16.758	1313	1327	1345	rBV2	56341	587531	15.43%	1.502%
34	17.485	1385	1393	1399	rBV3	26998	104575	2.75%	0.267%
35	18.003	1425	1440	1452	rBV	93783	454324	11.93%	1.162%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	19.015	1553	1559	1569	rBV	879634	1520772	39.94%	3.889%
37	19.743	1637	1645	1652	rBV2	66444	244348	6.42%	0.625%

Sum of corrected areas: 39106856
Signal : TIC: 1gb021.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

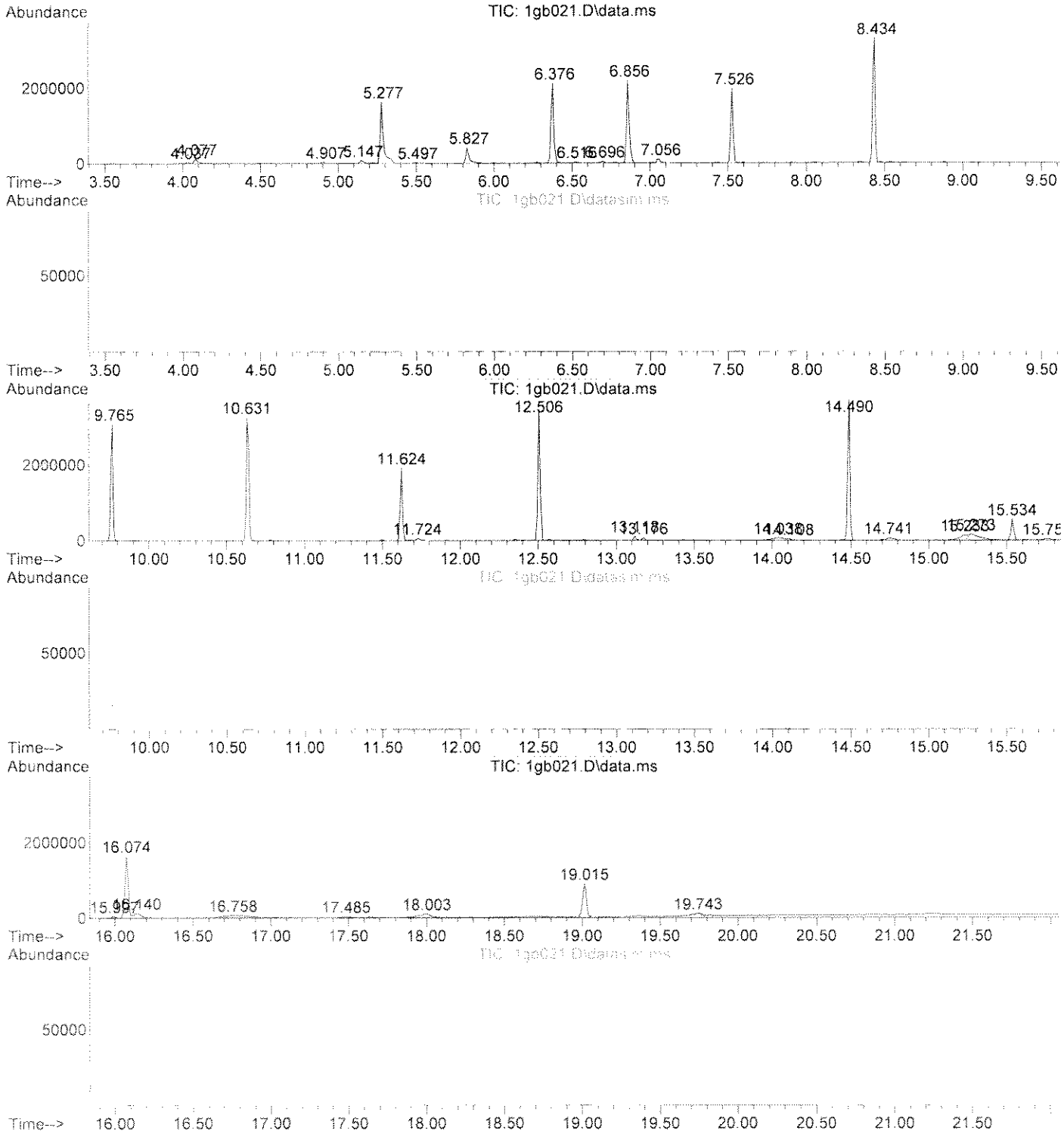
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.233	6.61	394698	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	59
2	Butanamide, 3-methyl-	101	C5H11NO	000541-46-8	53
3	3-Hexanol	102	C6H14O	000623-37-0	52
4	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	50
5	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	50

****
Peak Number 2 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.273	11.53	688240	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	56
2	Butane, 2-methoxy-	88	C5H12O	006795-87-5	50
3	2-Hydroxy-2,4-dimethyl-3-pentanone	130	C7H14O2	003212-67-7	50
4	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	45
5	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	42

****
Peak Number 3 Cinnamyl cinnamate Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.534	10.96	654151	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cinnamyl cinnamate	264	C18H16O2	000122-69-0	86
2	3-p-Tolylprop-2-enal	146	C10H10O	1000202-14-8	56
3	Cinnamoylglycine, methyl ester	219	C12H13NO3	040778-04-9	50
4	2-Propenamide, N-(1-methylethyl)...	265	C18H19NO	055044-37-6	46
5	trans-1-Cinnamoylimidazole	198	C12H10N2O	001138-15-4	43

****
Peak Number 4 Methane, diethoxy- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.140	6.75	402855	CHRYSENE-D12	16.074

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	72
2	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	64
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	59
5	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	59

****
Peak Number 5 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.758	9.84	587531	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hydroxy-2,4-dimethyl-3-pentanone	130	C7H14O2	003212-67-7	50
2	Butanamide, 3-methyl-	101	C5H11NO	000541-46-8	50
3	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	50
4	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	45
5	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	42

****
Peak Number 6 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.003	11.95	454324	PERYLENE-D12	19.015

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	53
2	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	50
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
5	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	47

****
Peak Number 7 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.743	6.43	244348	PERYLENE-D12	19.015

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1-ethoxy-1-methoxy-	104	C5H12O2	010471-14-4	53
2	Amylene Hydrate	88	C5H12O	000075-85-4	50
3	1-Ethoxypentan-3-ol	132	C7H16O2	100910-92-7	47

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

4	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1 46
5	Silane, ethyldimethyl-	88	C4H12Si	000758-21-4 43

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb021.D
Acq On : 7 Jul 2013 16:37
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
unknown	15.233	6.6		394698	5	16.074	2388090	40.0
unknown	15.273	11.5		688240	5	16.074	2388090	40.0
Cinnamyl cinnamate	15.534	11.0		654151	5	16.074	2388090	40.0
Methane, diethoxy-	16.140	6.8		402855	5	16.074	2388090	40.0
unknown	16.758	9.8		587531	5	16.074	2388090	40.0
unknown	18.003	11.9		454324	6	19.015	1520770	40.0
unknown	19.743	6.4		244348	6	19.015	1520770	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 17:31:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	320660	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1362948	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.631	164	760823	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1267824	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	790826	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.014	264	522481	40.00	ug/mL	-0.03
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	601785	47.61	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 47.61%			
11) Phenol -D5 (acid surr)	6.376	99	811867	52.19	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 52.19%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	732282	45.92	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 45.92%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	1267666	44.65	ug/mL	0.00
Spiked Amount 100.000			Recovery = 44.65%			
91) 2,4,6-Tribromophenol (...	11.624	330	176581	54.13	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 54.13%			
120) Terphenyl -D14 (b/n surr)	14.490	244	1247106	64.12	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 64.12%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.597	74	140	N.D.		
3) Pyridine	3.607	79	112	N.D.		
4) 2-Picoline	4.587	93	94	N.D.		
5) N-Nitrosomethylethylamine	4.807	88	76	N.D.		
6) Methyl methanesulfonate	5.147	80	1503	N.D.		
8) 2-Fluorophenol	5.277	112	601785	47.608	ug/mL	95
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	6.056	79	77	N.D.		
12) Phenol -D5	6.376	99	811867	52.187	ug/mL	88
13) Pentachloroethane	6.516	167	3356	N.D.		
14) aniline	6.396	93	197	N.D.		
15) Phenol	6.526	94	1062	N.D.		
16) Bis(2-chloroethyl)ether	6.396	93	197	N.D.		
17) 2-Chlorophenol	6.606	128	434	N.D.		
18) 1,3-Dichlorobenzene	6.786	146	290	N.D.		
19) 1,4-Dichlorobenzene	6.856	146	83	N.D.		
20) Benzyl Alcohol	7.056	108	183	N.D.		
21) 1,2-Dichlorobenzene	7.076	146	299	N.D.		
22) 2-Methylphenol	7.106	107	86	N.D.		
23) Bis(2-chloroisopropyl)...	7.126	45	85	N.D.		
24) Acetophenone	7.336	105	103	N.D.		
25) 3 & 4-Methylphenol	0.000		0	N.D.		
26) N-Nitrosodi-n-propylamine	7.366	70	737	N.D.		
27) N-Nitrosopyrrolidine	0.000		0	N.D.		
28) N-Nitrosomorpholine	7.336	56	260	N.D.		
29) Hexachloroethane	7.496	117	101	N.D.		
30) o-Toluidine	7.456	106	90	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	732282	45.917	ug/mL	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 17:31:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	3294	N.D.	
36) N-Nitrosopiperidine	7.816	114	280	N.D.	
37) Isophorone	7.876	82	89	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	0.000		0	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	390	N.D.	
45) Naphthalene	8.453	128	396	N.D.	
46) 4-Chloroaniline	8.546	127	85	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.881	84	6923	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	0.000		0	N.D.	
55) 1-Methylnaphthalene	0.000		0	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.523	216	164	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	1267666	44.649 ug/mL	100
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	9.924	65	75	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	0.000		0	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	0.000		0	N.D.	
71) 3-Nitroaniline	0.000		0	N.D.	
72) Acenaphthene	10.631	154	2590	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.631	109	1673	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	513	N.D.	
82) 4-Chlorophenyl phenyl ...	11.322	204	90	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	0.000		0	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 17:31:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	11.624	182	224	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	176581	54.134 ug/mL	98
94)	Sulfotepp	11.624	97	309	N.D.	
95)	Diallate	11.724	86	95	N.D.	
96)	Phorate	11.674	75	95	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	855	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.506	178	855	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	135	N.D.	
111)	Methyl Parathion	12.968	109	94	N.D.	
112)	Di-n-butyl phthalate	13.175	149	4938	N.D.	
113)	Parathion	13.372	109	103	N.D.	
114)	4-Nitroquinoline-1-oxide	0.000		0	N.D.	
115)	Methapyrilene	13.666	97	361	N.D.	
116)	Isodrin	13.827	193	234	N.D.	
117)	Fluoranthene	14.037	202	912	N.D.	
118)	Benzidine	0.000		0	N.D. d	
119)	Pyrene	14.329	202	793	N.D.	
121)	Terphenyl -D14	14.490	244	1247106	64.116 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.133	149	419	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.074	228	2636	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	21569	1.425 ug/mL	99
134)	Chrysene	16.074	228	2636	N.D.	
135)	Di-n-octyl phthalate	17.198	149	85	N.D.	
136)	Hexachlorophene	19.014	196	299	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.904	252	343	N.D.	
142)	3-Methylcholanthrene	19.523	268	156	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.786	276	734	N.D.	
144)	Dibenzo(a,h)anthracene	20.795	278	255	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	679	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 17:31:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

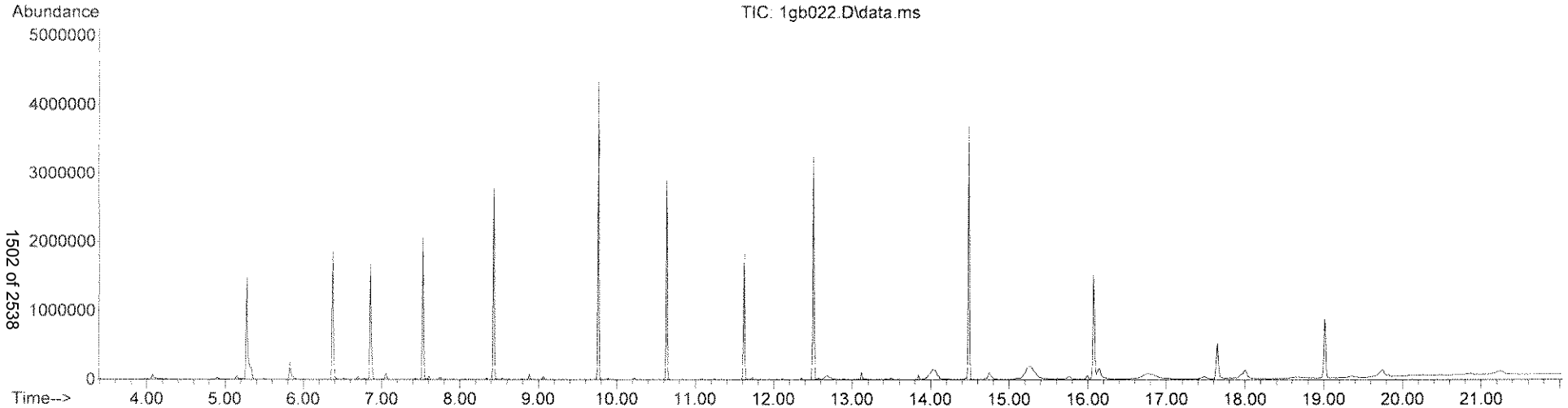
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

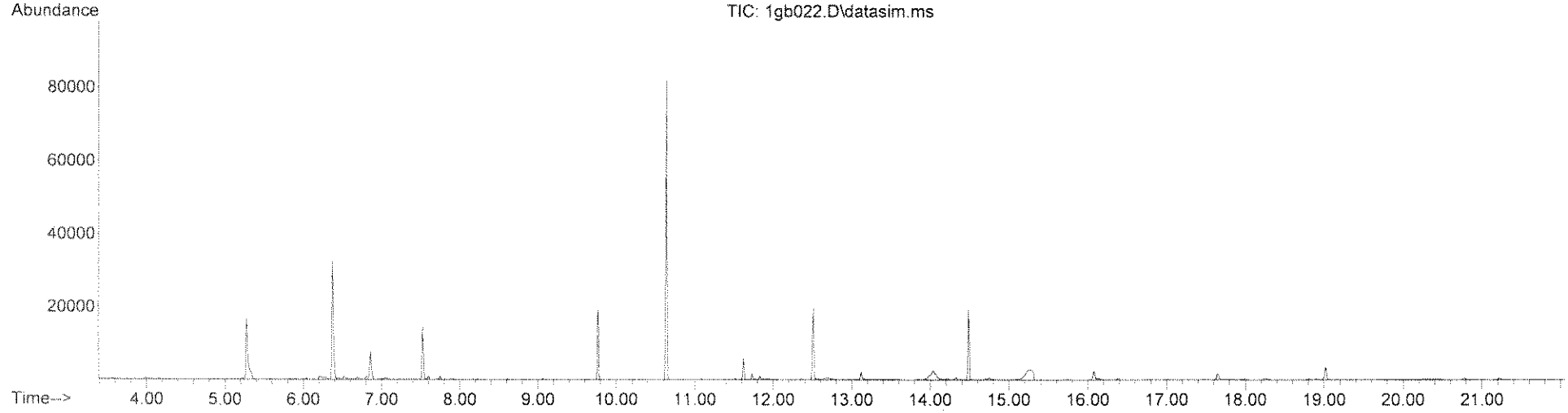
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 17:31:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 23:41:29 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

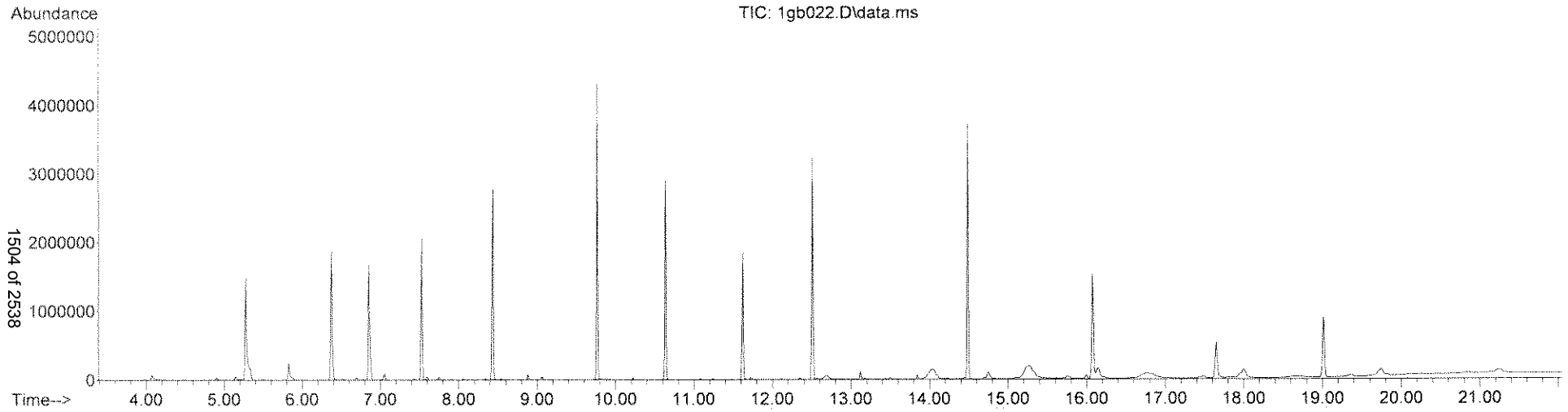
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	320660	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1362902	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.631	164	760823	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1267824	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	790826	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.014	264	522481	40.00	ug/mL	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	6.336	106	198	N.D.		
4) Caprolactam	8.965	113	152	N.D.		
6) 1,1'-Biphenyl	9.765	154	2703	N.D.		
7) Atrazine	0.000		0	N.D.		

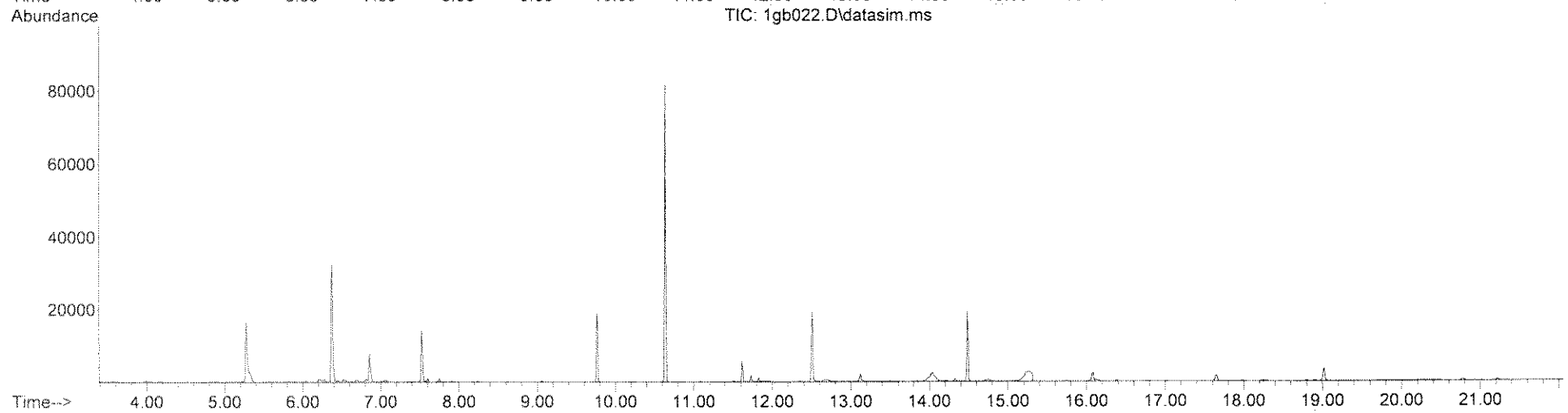
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 07 23:41:29 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb022.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	67	70	81	rBV2	69850	148365	3.75%	0.388%
2	4.897	150	152	159	rBV	32885	57373	1.45%	0.150%
3	5.147	174	177	182	rBV	56002	99825	2.52%	0.261%
4	5.277	187	190	200	rBV	1482219	2429803	61.36%	6.351%
5	5.826	242	245	252	rBV	255016	421640	10.65%	1.102%
6	6.376	297	300	310	rVB	1881007	2460404	62.13%	6.431%
7	6.696	326	332	335	rBV	42694	57173	1.44%	0.149%
8	6.856	345	348	353	rBV	1680726	2163219	54.63%	5.654%
9	7.056	365	368	375	rVB	87749	138534	3.50%	0.362%
10	7.526	412	415	418	rBV	2058283	2192772	55.37%	5.731%
11	7.596	420	422	425	rVB	48303	58960	1.49%	0.154%
12	7.756	436	438	440	rVB	38482	47559	1.20%	0.124%
13	8.434	506	509	512	rBV	2776715	2980087	75.25%	7.789%
14	8.881	554	557	562	rBV	83173	89482	2.26%	0.234%
15	9.058	574	576	579	rBV	43494	52952	1.34%	0.138%
16	9.765	649	652	655	rBV	4327865	3960091	100.00%	10.350%
17	10.631	742	745	748	rBV	2893814	3272908	82.65%	8.554%
18	11.624	846	849	852	rBV	1836295	1853233	46.80%	4.844%
19	12.506	928	931	934	rBV	3237890	3260877	82.34%	8.523%
20	12.691	939	947	958	rBV2	54799	258149	6.52%	0.675%
21	13.118	982	984	988	rBV	114186	124847	3.15%	0.326%
22	13.847	1045	1050	1053	rBV	66440	77907	1.97%	0.204%
23	14.027	1060	1068	1070	rBV2	122242	449174	11.34%	1.174%
24	14.490	1111	1114	1116	rVB	3732563	3743750	94.54%	9.785%
25	14.701	1132	1135	1137	rBV	28923	42328	1.07%	0.111%
26	14.751	1137	1140	1146	rVB2	90242	236667	5.98%	0.619%
27	15.092	1170	1174	1177	rBV6	16658	42926	1.08%	0.112%
28	15.243	1179	1189	1190	rBV	165748	584835	14.77%	1.529%
29	15.754	1230	1236	1244	rBV2	36336	132638	3.35%	0.347%
30	15.997	1254	1258	1261	rBV	55569	86352	2.18%	0.226%
31	16.074	1261	1265	1268	rBV	1510168	2257216	57.00%	5.899%
32	16.140	1268	1271	1277	rVB3	135597	407933	10.30%	1.066%
33	16.769	1313	1328	1331	rBV	72612	470498	11.88%	1.230%
34	17.485	1389	1393	1401	rVB3	31056	105365	2.66%	0.275%
35	17.650	1403	1408	1417	rBV	520577	1054445	26.63%	2.756%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	18.003	1431	1440	1451	rVB2	121492	526100	13.29%	1.375%
37	19.014	1554	1559	1568	rVB	868328	1481443	37.41%	3.872%
38	19.362	1596	1600	1606	rVB6	23602	65728	1.66%	0.172%
39	19.752	1636	1646	1651	rBV2	93905	367852	9.29%	0.961%

Sum of corrected areas: 38261410

Signal : TIC: 1gb022.D\datasim.ms

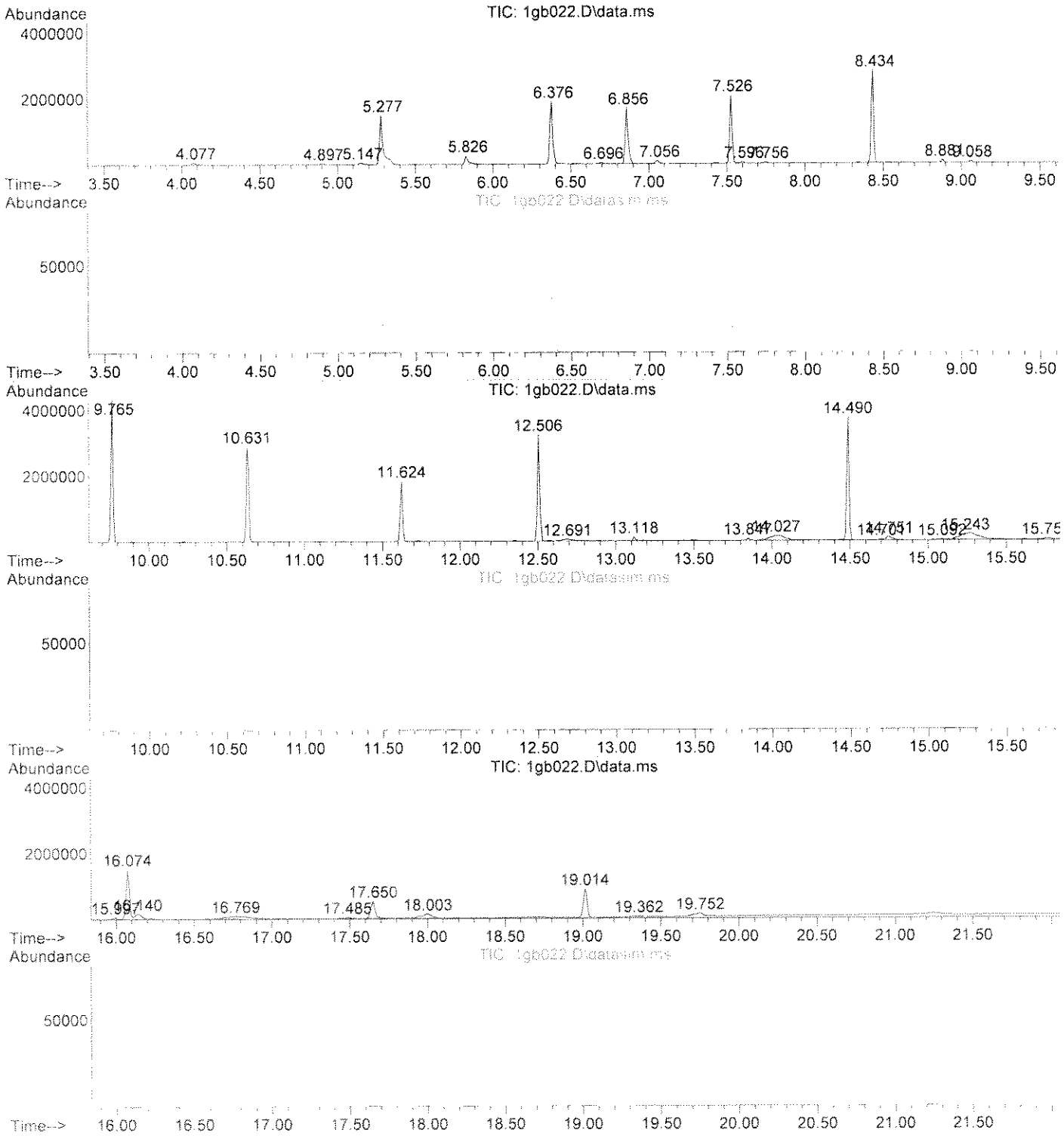
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

No peaks were detected using the above RTE integration parameters!

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.028	5.51	449174	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	59
2	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	53
3	3-Hexanol	102	C6H14O	000623-37-0	52
4	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	50
5	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	50

****
Peak Number 2 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.751	4.19	236667	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	56
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	43
5	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	43

****
Peak Number 3 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.243	10.36	584835	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	59
2	3-Hexanol	102	C6H14O	000623-37-0	53
3	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	53
4	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	53
5	Butanamide, 3-methyl-	101	C5H11NO	000541-46-8	50

****
Peak Number 4 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.140	7.23	407933	CHRYSENE-D12	16.074

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	59
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	59
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	53
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	50
5	Dipropylene glycol	134	C6H14O3	025265-71-8	50

****
Peak Number 5 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.769	8.34	470498	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	42
2	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	40
3	Propanoic acid, 2-hydroxy-2-meth...	118	C5H10O3	002110-78-3	38
4	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	38
5	1-Butanol, 3-methoxy-	104	C5H12O2	002517-43-3	38

****
Peak Number 6 Erucylamide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.650	28.47	1054450	PERYLENE-D12	19.014

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Erucylamide	337	C22H43NO	000112-84-5	76
2	Hexadecanamide	255	C16H33NO	000629-54-9	53
3	Erucylamide	337	C22H43NO	000112-84-5	50
4	2-Hydroxy-2,4-dimethyl-hept-6-en...	156	C9H16O2	1000192-56-0	38
5	Methyl 17-methoxy-10-methoxycarb...	386	C22H42O5	1000110-20-7	37

****
Peak Number 7 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.003	14.21	526100	PERYLENE-D12	19.014

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	47
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	43
3	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	43

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

4	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7 43
5	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8 38

****
Peak Number 8 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.752	9.93	367852	PERYLENE-D12	19.014

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	53
2	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	47
3	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	43
4	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	42
5	Dipropylene glycol	134	C6H14O3	025265-71-8	38

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb022.D
Acq On : 7 Jul 2013 17:06
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
unknown	14.028	5.5		449174	4	12.506	3260880	40.0
unknown	14.751	4.2		236667	5	16.074	2257220	40.0
unknown	15.243	10.4		584835	5	16.074	2257220	40.0
unknown	16.140	7.2		407933	5	16.074	2257220	40.0
unknown	16.769	8.3		470498	5	16.074	2257220	40.0
Erucylamide	17.650	28.5		1054450	6	19.014	1481440	40.0
unknown	18.003	14.2		526100	6	19.014	1481440	40.0
unknown	19.752	9.9		367852	6	19.014	1481440	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 07 17:59:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	380027	40.00 ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1669608	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	1028879	40.00 ug/mL	0.00
93) PHENANTHRENE-d10	12.506	188	1794626	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	802344	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.014	264	306328	40.00 ug/mL	-0.03
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.267	112	214926	14.35 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 14.35%		
11) Phenol -D5 (acid surr)	6.366	99	333107	18.07 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 18.07%		
33) Nitrobenzene -D5 (b/n ...	7.526	82	290627	14.88 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 14.88%		
61) 2-Fluorobiphenyl (b/n ...	9.765	172	492587	12.83 ug/mL	0.00
Spiked Amount 100.000			Recovery = 12.83%		
91) 2,4,6-Tribromophenol (...	11.624	330	89809	20.36 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 20.36%		
120) Terphenyl -D14 (b/n surr)	14.490	244	510989	18.56 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 18.56%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.	
3) Pyridine	3.687	79	775	N.D.	
4) 2-Picoline	4.517	93	83	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.107	80	109	N.D.	
8) 2-Fluorophenol	5.267	112	214926	14.347 ug/mL	96
9) N-Nitrosodiethylamine	5.547	102	173	N.D.	
10) Ethyl methanesulfonate	5.906	79	1497	N.D.	
12) Phenol -D5	6.366	99	333107	18.067 ug/mL	88
13) Pentachloroethane	6.516	167	1546	N.D.	
14) aniline	6.436	93	558	N.D.	
15) Phenol	6.386	94	1430	N.D.	
16) Bis(2-chloroethyl)ether	6.556	93	657	N.D.	
17) 2-Chlorophenol	0.000		0	N.D.	
18) 1,3-Dichlorobenzene	6.796	146	168	N.D.	
19) 1,4-Dichlorobenzene	6.876	146	450	N.D.	
20) Benzyl Alcohol	7.016	108	86	N.D.	
21) 1,2-Dichlorobenzene	7.076	146	376	N.D.	
22) 2-Methylphenol	7.126	107	366	N.D.	
23) Bis(2-chloroisopropyl)...	7.186	45	95	N.D.	
24) Acetophenone	7.336	105	3735	N.D.	
25) 3 & 4-Methylphenol	7.306	108	1090	N.D.	
26) N-Nitrosodi-n-propylamine	7.346	70	76	N.D.	
27) N-Nitrosopyrrolidine	0.000		0	N.D.	
28) N-Nitrosomorpholine	7.296	56	725	N.D.	
29) Hexachloroethane	7.496	117	1531	N.D.	
30) o-Toluidine	7.416	106	164	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.526	82	290627	14.876 ug/mL	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 07 17:59:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	3220	N.D.	
36) N-Nitrosopiperidine	7.766	114	75	N.D.	
37) Isophorone	7.846	82	313	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.986	122	1817	N.D.	
40) Bis(2-chloroethoxy)met...	8.108	93	204	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	778	N.D.	
45) Naphthalene	8.462	128	2540996	53.269 ug/mL	99
46) 4-Chloroaniline	8.536	127	413	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.890	84	439	N.D.	
51) p-Phenylenediamine	8.946	108	112	N.D.	
52) 4-Chloro-3-methylphenol	9.114	107	398	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.318	142	315803	9.959 ug/mL	98
55) 1-Methylnaphthalene	9.439	142	141125	3.940 ug/mL	99
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	195	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	492587	12.829 ug/mL	100
63) Isosafrole	9.989	162	1174	N.D.	
64) 2-Chloronaphthalene	9.942	162	72	N.D.	
65) 2-Nitroaniline	10.017	65	980	N.D.	
66) 1,4-Naphthoquinone	10.119	158	300	N.D.	
67) Dimethyl phthalate	10.268	163	369	N.D.	
68) m-Dinitrobenzene	10.231	168	1081	N.D.	
69) 2,6-Dinitrotoluene	10.333	165	789	N.D.	
70) Acenaphthylene	10.454	152	4796	N.D.	
71) 3-Nitroaniline	10.585	138	395	N.D.	
72) Acenaphthene	10.678	154	115970	3.390 ug/mL	81
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.883	109	1858	N.D.	
76) Dibenzofuran	10.883	168	215613	5.007 ug/mL	100
77) 2,4-Dinitrotoluene	10.827	165	1081	N.D.	
78) 2-Naphthylamine	10.967	143	334	N.D.	
79) 1-Naphthylamine	11.070	143	1018	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	1261	N.D.	
82) 4-Chlorophenyl phenyl ...	11.238	204	187	N.D.	
83) Fluorene	11.322	166	135684	3.681 ug/mL	99
84) Thionazin	11.219	107	546	N.D.	
85) 5-Nitro-o-toluidine	11.238	152	1920	N.D.	
86) 4-Nitroaniline	11.322	138	2607	N.D.	
87) 2-Methyl-4,6-dinitroph...	11.393	198	88	N.D.	
88) Diphenylamine/N-Nitros...	11.433	169	4023	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 07 17:59:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.563	169	738	N.D.	
90)	DPH (as Azobenzene)	0.000		0	N.D. d	
92)	2,4,6-Tribromophenol	11.624	330	89809	20.360 ug/mL	98
94)	Sulfotepp	11.624	97	642	N.D.	
95)	Diallate	11.774	86	1064	N.D.	
96)	Phorate	11.825	75	324	N.D.	
97)	4-Bromophenylphenyl ether	11.935	248	111	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.754	213	183	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	11.945	87	412	N.D.	
102)	4-Aminobiphenyl	12.171	169	3147	N.D.	
103)	Pentachlorophenol	12.194	266	96	N.D.	
104)	Pronamide	12.298	173	1351	N.D.	
105)	Pentachloronitrobenzene	12.321	237	121	N.D.	
106)	Phenanthrene	12.540	178	751722	14.587 ug/mL	99
107)	Disulfoton	12.437	88	582	N.D.	
108)	Anthracene	12.598	178	150636	2.861 ug/mL	93
109)	Dinoseb	12.425	211	140	N.D.	
110)	Carbazole	12.783	167	57306	1.358 ug/mL	94
111)	Methyl Parathion	12.968	109	915	N.D.	
112)	Di-n-butyl phthalate	13.175	149	4364	N.D.	
113)	Parathion	13.383	109	934	N.D.	
114)	4-Nitroquinoline-1-oxide	13.602	190	2373	N.D.	
115)	Methapyrilene	13.591	97	2558	N.D.	
116)	Isodrin	0.000		0	N.D. d	
117)	Fluoranthene	14.038	202	394353	10.576 ug/mL	95
118)	Benzidine	13.827	184	141	N.D.	
119)	Pyrene	14.329	202	272479	7.005 ug/mL	91
121)	Terphenyl -D14	14.490	244	510989	18.559 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.082	149	974	N.D.	
125)	p-(dimethylamino)azobe...	14.680	225	883	N.D.	
126)	Chlorobenzilate	14.680	251	378	N.D.	
127)	Famphur	15.843	218	627	No Calib #	
128)	3,3'-Dimethylbenzidine	15.092	212	286	N.D.	
129)	Kepone	19.726	272	163	No Calib #	
130)	2-Acetylaminofluorene	15.589	181	780	N.D.	
131)	3,3'-Dichlorobenzidine	15.942	252	682	N.D.	
132)	Benzo(a)anthracene	16.063	228	89672	3.946 ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	15.997	149	31507	2.052 ug/mL	98
134)	Chrysene	16.118	228	86952	4.229 ug/mL	96
135)	Di-n-octyl phthalate	17.254	149	633	N.D.	
136)	Hexachlorophene	19.014	196	361	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.311	256	215	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D. d	
140)	Benzo(k)fluoranthene	0.000		0	N.D. d	
141)	Benzo(a)pyrene	18.904	252	17607	1.990 ug/mL	88
142)	3-Methylcholanthrene	19.582	268	582	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	5475	N.D.	
144)	Dibenzo(a,h)anthracene	20.945	278	1370	N.D.	
145)	Benzo(g,h,i)perylene	21.458	276	697	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 07 17:59:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
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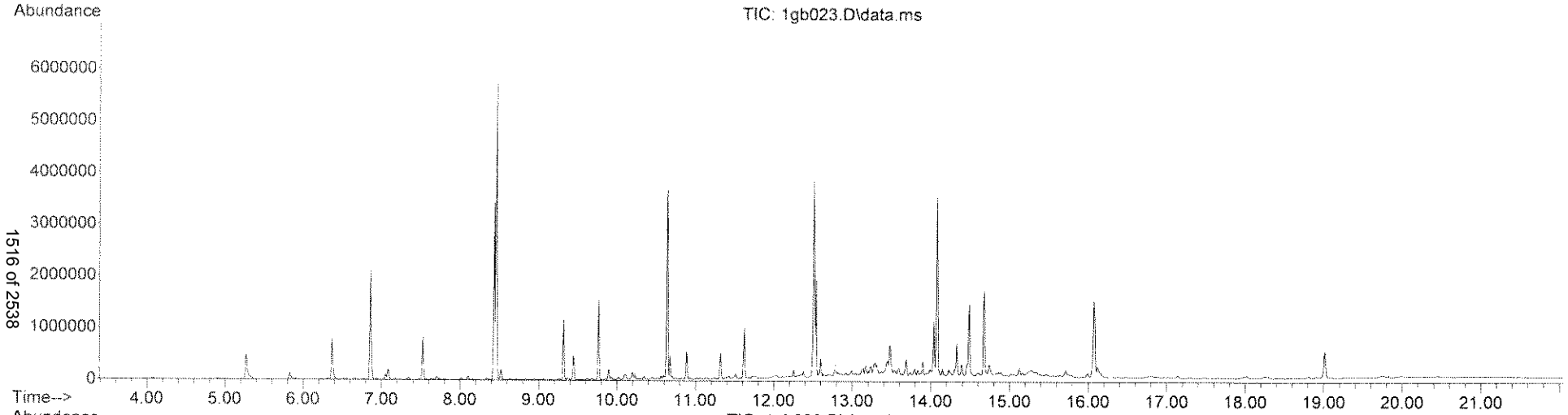
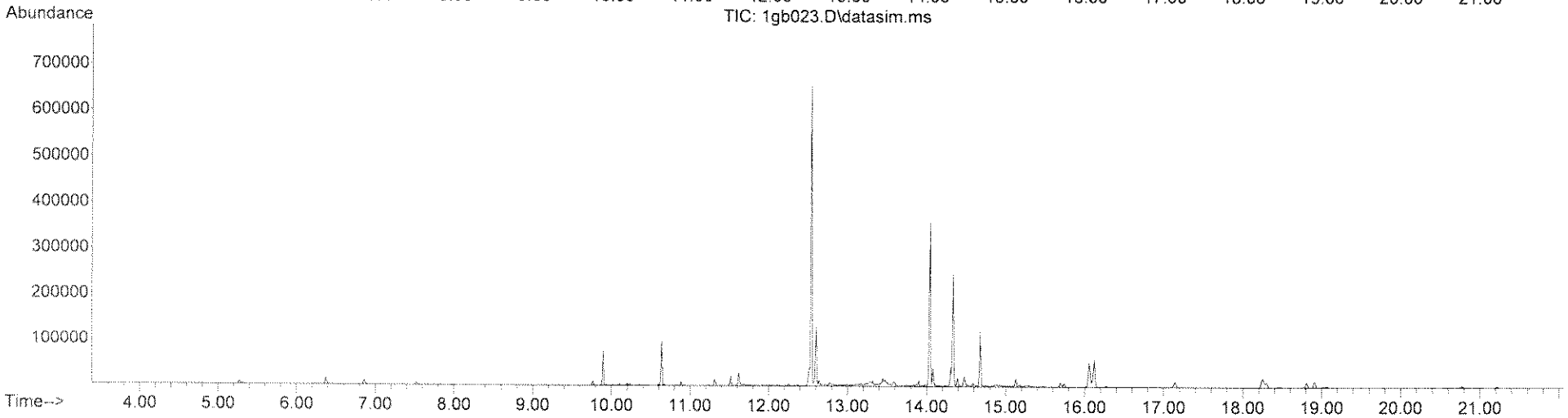
Quant Time: Jul 07 17:59:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 07 23:41:31 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

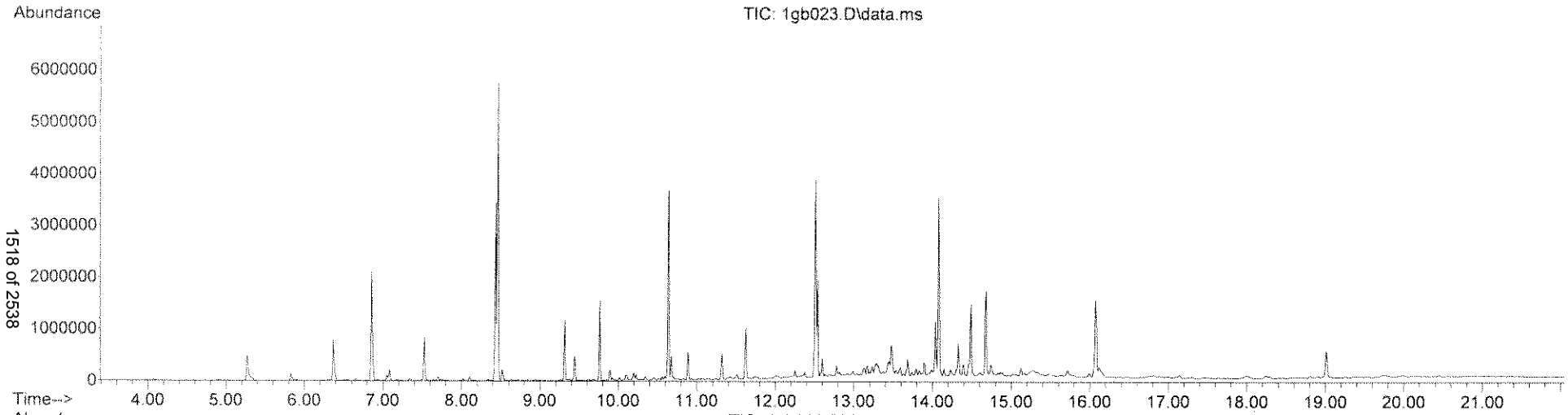
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	380027	40.00 ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1669608	40.00 ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	1028879	40.00 ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1794626	40.00 ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	802344	40.00 ug/mL	-0.06
10) PERYLENE-d12	19.014	264	306328	40.00 ug/mL	-0.06
Target Compounds					Qvalue
2) Benzaldehyde	6.326	106	3432	N.D.	
4) Caprolactam	8.927	113	132	N.D.	
6) 1,1'-Biphenyl	9.896	154	63633	1.556 ug/mL	92
7) Atrazine	12.090	200	310	N.D.	

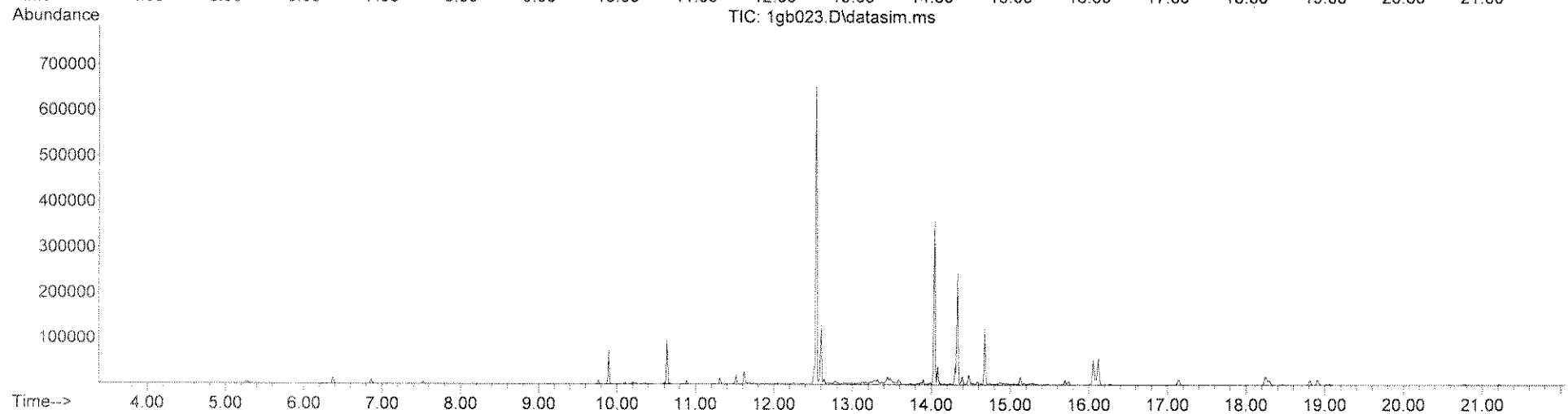
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 07 23:41:31 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb023.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.267	186	189	202	rVB	473616	903295	16.82%	1.671%
2	5.826	242	245	251	rBV	137493	211874	3.95%	0.392%
3	6.366	297	299	305	rVB	776641	1021008	19.02%	1.889%
4	6.646	323	327	331	rBV	33546	60214	1.12%	0.111%
5	6.856	345	348	353	rBV	2108181	2585826	48.16%	4.783%
6	7.056	365	368	369	rBV	104685	143596	2.67%	0.266%
7	7.086	369	371	375	rVB	220837	265583	4.95%	0.491%
8	7.346	394	397	401	rVB2	40828	57696	1.07%	0.107%
9	7.526	412	415	421	rVB	818350	903034	16.82%	1.670%
10	7.706	430	433	435	rBV	70263	84660	1.58%	0.157%
11	8.099	471	473	477	rBV	71337	101307	1.89%	0.187%
12	8.341	497	499	506	rBV3	33747	58806	1.10%	0.109%
13	8.434	506	509	510	rVV	3416812	3819676	71.14%	7.065%
14	8.462	510	512	515	rVV	5740427	5369323	100.00%	9.931%
15	8.518	515	518	523	rVB	217049	261315	4.87%	0.483%
16	9.318	601	604	607	rBV	1152288	1150710	21.43%	2.128%
17	9.384	607	611	613	rVB3	27190	57500	1.07%	0.106%
18	9.439	613	617	620	rBV	463384	551092	10.26%	1.019%
19	9.765	649	652	655	rVB	1531576	1569550	29.23%	2.903%
20	9.896	663	666	668	rBV	190042	229851	4.28%	0.425%
21	10.017	677	679	683	rVB	58524	73760	1.37%	0.136%
22	10.100	685	688	692	rVB2	99149	189025	3.52%	0.350%
23	10.194	695	698	700	rBV	140294	185395	3.45%	0.343%
24	10.231	700	702	704	rVB	100009	96961	1.81%	0.179%
25	10.343	712	714	719	rVB	66818	92114	1.72%	0.170%
26	10.454	721	726	730	rBV5	46145	97539	1.82%	0.180%
27	10.557	735	737	739	rBV	69510	73888	1.38%	0.137%
28	10.594	739	741	742	rBV	62600	58716	1.09%	0.109%
29	10.641	742	746	748	rVV	3628234	4493688	83.69%	8.312%
30	10.678	748	750	752	rVB	405385	419652	7.82%	0.776%
31	10.883	769	772	775	rBV	531077	614356	11.44%	1.136%
32	11.144	795	800	805	rVB5	29485	73022	1.36%	0.135%
33	11.322	816	819	821	rBV	488903	526335	9.80%	0.974%
34	11.433	823	830	831	rBV3	49478	139987	2.61%	0.259%
35	11.513	834	838	841	rVB2	88033	144568	2.69%	0.267%

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	11.624	846	849	851	rBV	973989	1091867	20.34%	2.020%
37	11.734	857	860	861	rBV3	38310	63775	1.19%	0.118%
38	12.005	883	887	894	rBV6	51743	183010	3.41%	0.339%
39	12.252	907	909	911	rVB	137450	138709	2.58%	0.257%
40	12.379	918	920	924	rVB	112088	138605	2.58%	0.256%
41	12.506	928	931	933	rVV	3797830	5101305	95.01%	9.436%
42	12.598	936	939	941	rVB	346107	386438	7.20%	0.715%
43	12.783	952	955	957	rBV	211225	265530	4.95%	0.491%
44	12.991	970	973	976	rBV3	92338	141064	2.63%	0.261%
45	13.129	982	985	987	rBV2	129344	257331	4.79%	0.476%
46	13.175	987	989	990	rVV	157193	216849	4.04%	0.401%
47	13.233	992	994	996	rVV2	145909	227857	4.24%	0.421%
48	13.291	996	999	1004	rVB4	198101	598998	11.16%	1.108%
49	13.452	1009	1013	1014	rVV2	264585	652376	12.15%	1.207%
50	13.476	1014	1015	1019	rVV2	569672	930143	17.32%	1.720%
51	13.533	1019	1020	1023	rVV3	82699	155671	2.90%	0.288%
52	13.591	1023	1025	1027	rVB2	154315	231985	4.32%	0.429%
53	13.686	1030	1034	1037	rVB3	322724	455650	8.49%	0.843%
54	13.736	1037	1039	1042	rBV3	72973	118035	2.20%	0.218%
55	13.796	1042	1045	1047	rVV2	126028	153876	2.87%	0.285%
56	13.837	1047	1049	1051	rVV	89147	109831	2.05%	0.203%
57	13.897	1053	1055	1057	rVB	245891	288637	5.38%	0.534%
58	13.987	1062	1064	1066	rVV2	80078	122879	2.29%	0.227%
59	14.038	1066	1069	1071	rVV	994337	1148591	21.39%	2.124%
60	14.078	1071	1073	1076	rVV	3390921	3779948	70.40%	6.992%
61	14.148	1078	1080	1082	rBV	124531	125514	2.34%	0.232%
62	14.228	1086	1088	1092	rBV3	114731	172404	3.21%	0.319%
63	14.299	1093	1095	1096	rBV	102584	128212	2.39%	0.237%
64	14.329	1096	1098	1101	rVB	594784	642810	11.97%	1.189%
65	14.399	1102	1105	1108	rVB2	204854	303539	5.65%	0.561%
66	14.459	1108	1111	1112	rBV2	228460	348340	6.49%	0.644%
67	14.490	1112	1114	1116	rVB	1315946	1466080	27.30%	2.712%
68	14.610	1121	1126	1130	rBV6	59055	164605	3.07%	0.304%
69	14.680	1130	1133	1135	rVV	1612963	2007904	37.40%	3.714%
70	14.741	1137	1139	1146	rVB2	201478	354163	6.60%	0.655%
71	15.022	1164	1167	1169	rBV2	41224	90477	1.69%	0.167%
72	15.123	1174	1177	1180	rBV	151259	209886	3.91%	0.388%
73	15.468	1208	1210	1214	rVB3	37633	72588	1.35%	0.134%
74	15.721	1229	1233	1234	rBV2	107435	206041	3.84%	0.381%
75	15.997	1255	1258	1260	rBV	72365	111606	2.08%	0.206%

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

76	16.074	1260	1265	1268	rVV	1467178	2508900	46.73%	4.641%
77	16.118	1268	1269	1278	rVB2	190831	442172	8.24%	0.818%
78	17.143	1359	1362	1366	rVB	56640	101296	1.89%	0.187%
79	18.243	1465	1468	1472	rBV2	32406	73225	1.36%	0.135%
80	18.811	1532	1535	1540	rVB2	34575	73195	1.36%	0.135%
81	19.014	1554	1559	1563	rVB	494566	817339	15.22%	1.512%

Sum of corrected areas: 54064178

Signal : TIC: 1gb023.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

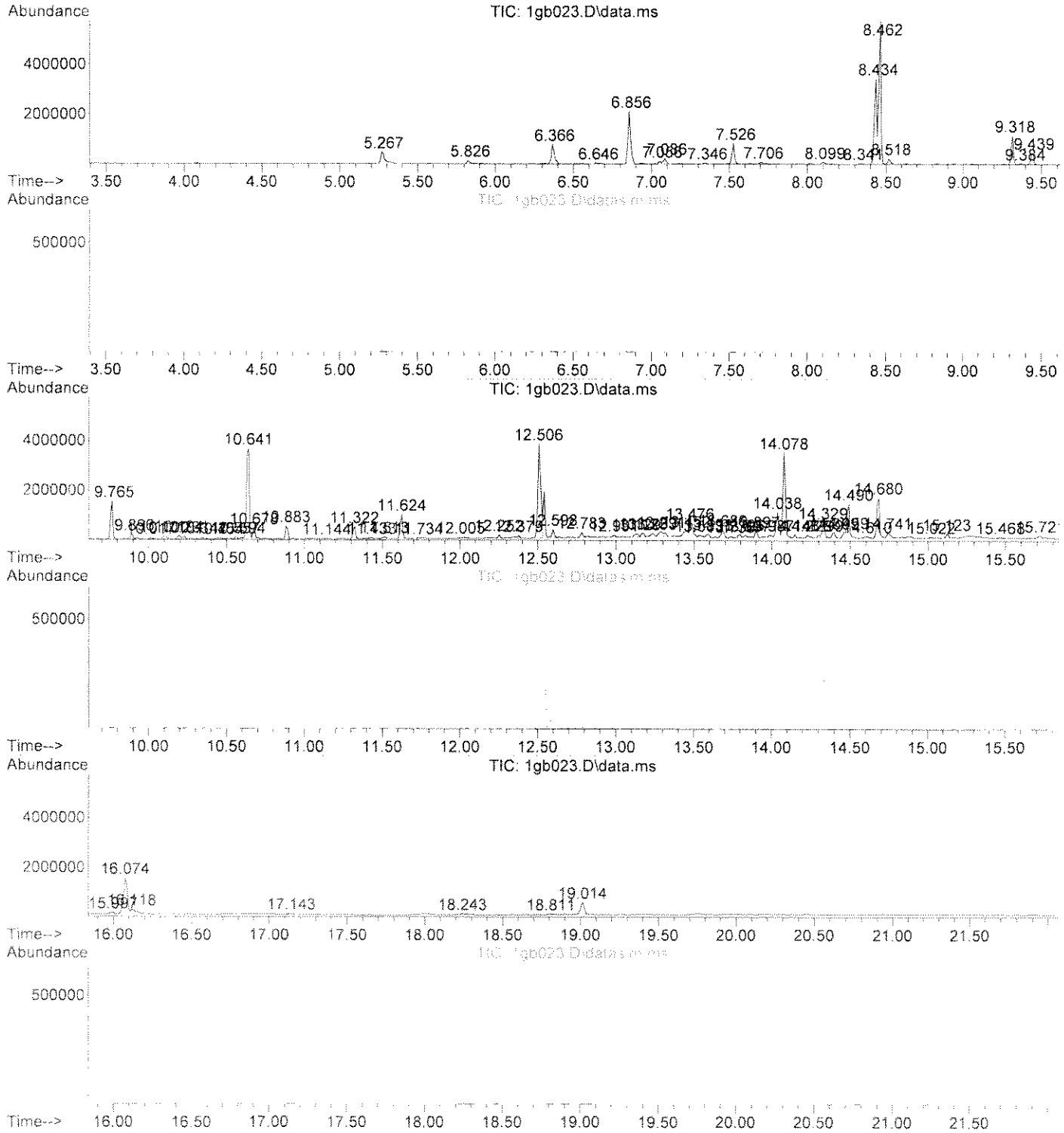
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Indane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.086	4.11	265583	1,4-DICHLOROBENZENE-D4	6.856

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	87
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	72
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	64
5	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	64

****
Peak Number 2 1,4-Methanonaphthalene, 1,4... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.318	12.05	1150710	NAPHTHALENE-D8	8.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	93
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
5	Benzocycloheptatriene	142	C11H10	000264-09-5	91

****
Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.439	5.77	551092	NAPHTHALENE-D8	8.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	93
5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91

****
Peak Number 4 Fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.322	4.69	526335	ACENAPHTHENE-D10	10.641

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluorene	166	C13H10	000086-73-7	95
2	Fluorene	166	C13H10	000086-73-7	94
3	Fluorene	166	C13H10	000086-73-7	93
4	3-Trifluoromethylbenzhydryl chlo...	270	C14H10ClF3	067240-79-3	56
5	Benzaldehyde, 2,4-dihydroxy-3,6-...	166	C9H10O3	034883-14-2	53

****
Peak Number 5 unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.291	4.70	598998	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	47
4	4-Oxo-2-(4-fluorophenyl)-3,4-dih...	190	C10H7FN2O	076128-79-5	22
5	3H-Indazole-3-carbonitrile, 3-(4,...	253	C14H8ClN3	056630-97-8	12

****
Peak Number 6 unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.452	5.12	652376	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(2-Ethyl-1,3-dimethyl-cyclopen...	182	C12H22O	1000186-82-4	27
2	Bioallethrin	302	C19H26O3	000584-79-2	25
3	Bicyclo[2.2.1]heptane, 1,3,3-tri...	138	C10H18	006248-88-0	22
4	1-Cyclohexene-1-carboxaldehyde, ...	152	C10H16O	021391-98-0	20
5	1-Cyclohexene-1-carboxaldehyde, ...	152	C10H16O	021391-98-0	20

****
Peak Number 7 4b,8-Dimethyl-2-isopropylph... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.476	7.29	930143	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	86
2	Naphthalene, 6-ethyl-1,2,3,4-tet...	256	C19H28	1000070-68-0	35
3	3,4-Dihydro-3,3-dimethyl-1,9(2H,...	241	C15H15NO2	1000212-95-2	35

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

4	Naphthalene, 1,2,3,4-tetrahydro-...	174	C13H18	021693-51-6	32
5	Isoxazole, 5-methyl-4-phenyl-	159	C10H9NO	023253-49-8	30

****
Peak Number 8 Fluoranthene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.038	9.01	1148590	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	98
2	Fluoranthene	202	C16H10	000206-44-0	98
3	Fluoranthene	202	C16H10	000206-44-0	96
4	Fluoranthene	202	C16H10	000206-44-0	95
5	Pyrene	202	C16H10	000129-00-0	93

****
Peak Number 9 1,1'-Biphenyl, bis(1-methyl... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.078	29.64	3779950	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, bis(1-methylethyl)-	238	C18H22	069009-90-1	83
2	1,1'-Biphenyl, bis(1-methylethyl)-	238	C18H22	069009-90-1	81
3	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	50
4	Anthracene, 1,4-dimethoxy-	238	C16H14O2	013076-29-4	43
5	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	42

****
Peak Number 10 Pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.329	10.25	642810	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene	202	C16H10	000129-00-0	95
2	Fluoranthene	202	C16H10	000206-44-0	91
3	Fluoranthene	202	C16H10	000206-44-0	90
4	Pyrene	202	C16H10	000129-00-0	87
5	Fluoranthene	202	C16H10	000206-44-0	87

****
Peak Number 11 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 11

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.399	4.84	303539	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	89
2	1,3-Pentadiene, 1,1-diphenyl-, (Z)-	220	C17H16	015295-31-5	81
3	1,3-Pentadiene, 1,1-diphenyl-, (Z)-	220	C17H16	015295-31-5	72
4	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	72
5	Chrom-6-ol-4-one, 2,3-dihydroxy-...	220	C13H16O3	1000129-25-0	68

****
Peak Number 12 1-Phenyl-4-(3,5-dimethylphe... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.681	32.01	2007900	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-4-(3,5-dimethylphenyl)b...	234	C18H18	1000202-15-0	83
2	1-(10-Methylanthracen-9-yl)ethanone	234	C17H14O	036778-18-4	70
3	Phenanthrene, 3,4,5,6-tetramethyl-	234	C18H18	007343-06-8	68
4	Phenanthrene, 2,4,5,7-tetramethyl-	234	C18H18	007396-38-5	68
5	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	60

****
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.741	5.65	354163	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	74
3	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	68
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	55
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	53

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb023.D
Acq On : 7 Jul 2013 17:34
Operator : jfi
Sample : a303499-22@2x
Misc : 2x brown extract
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Indane	7.086	4.1		265583	1	6.856	2585830	40.0
1,4-Methanonaph...	9.318	12.1		1150710	2	8.434	3819680	40.0
Naphthalene, 1-...	9.439	5.8		551092	2	8.434	3819680	40.0
Fluorene	11.322	4.7		526335	3	10.641	4493690	40.0
unknown	13.291	4.7		598998	4	12.506	5101310	40.0
unknown	13.452	5.1		652376	4	12.506	5101310	40.0
4b,8-Dimethyl-2...	13.476	7.3		930143	4	12.506	5101310	40.0
Fluoranthene	14.038	9.0		1148590	4	12.506	5101310	40.0
1,1'-Biphenyl, ...	14.078	29.6		3779950	4	12.506	5101310	40.0
Pyrene	14.329	10.3		642810	5	16.074	2508900	40.0
Phenanthrene, 2...	14.399	4.8		303539	5	16.074	2508900	40.0
1-Phenyl-4-(3,5...	14.681	32.0		2007900	5	16.074	2508900	40.0
11H-Benzo[b]flu...	14.741	5.7		354163	5	16.074	2508900	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 18:42:30 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	351562	40.00 ug/mL	0.00
32) NAPHTHALENE-d8	8.434	136	1502099	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.632	164	860079	40.00 ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1490222	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	563093	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.015	264	243818	40.00 ug/mL	-0.03
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.277	112	235680	17.01 ug/mL	0.00
Spiked Amount 100.000			Recovery = 17.01%		
11) Phenol -D5 (acid surr)	6.366	99	326426	19.14 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 19.14%		
33) Nitrobenzene -D5 (b/n ...	7.526	82	274663	15.63 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 15.63%		
61) 2-Fluorobiphenyl (b/n ...	9.765	172	497221	15.49 ug/mL	0.00
Spiked Amount 100.000			Recovery = 15.49%		
91) 2,4,6-Tribromophenol (...	11.624	330	82874	22.47 ug/mL	0.00
Spiked Amount 100.000			Recovery = 22.47%		
120) Terphenyl -D14 (b/n surr)	14.490	244	520919	22.78 ug/mL	0.00
Spiked Amount 100.000			Recovery = 22.78%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.	
3) Pyridine	3.638	79	101	N.D.	
4) 2-Picoline	4.477	93	278	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	0.000		0	N.D.	
8) 2-Fluorophenol	5.277	112	235680	17.006 ug/mL	96
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	6.027	79	92	N.D.	
12) Phenol -D5	6.366	99	326426	19.138 ug/mL	89
13) Pentachloroethane	6.526	167	1859	N.D.	
14) aniline	6.526	93	101	N.D.	
15) Phenol	0.000		0	N.D.	
16) Bis(2-chloroethyl)ether	0.000		0	N.D.	
17) 2-Chlorophenol	6.606	128	95	N.D.	
18) 1,3-Dichlorobenzene	6.796	146	142	N.D.	
19) 1,4-Dichlorobenzene	6.876	146	110	N.D.	
20) Benzyl Alcohol	7.006	108	218	N.D.	
21) 1,2-Dichlorobenzene	7.006	146	203	N.D.	
22) 2-Methylphenol	0.000		0	N.D.	
23) Bis(2-chloroisopropyl)...	7.306	45	84	N.D.	
24) Acetophenone	0.000		0	N.D.	
25) 3 & 4-Methylphenol	7.306	108	769	N.D.	
26) N-Nitrosodi-n-propylamine	7.346	70	100	N.D.	
27) N-Nitrosopyrrolidine	0.000		0	N.D.	
28) N-Nitrosomorpholine	7.286	56	76	N.D.	
29) Hexachloroethane	0.000		0	N.D.	
30) o-Toluidine	7.306	106	657	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.526	82	274663	15.627 ug/mL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 18:42:30 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	1265	N.D.	
36) N-Nitrosopiperidine	7.806	114	83	N.D.	
37) Isophorone	7.846	82	107	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	8.108	122	186	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	269	N.D.	
45) Naphthalene	0.000		0	N.D.	
46) 4-Chloroaniline	0.000		0	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.751	84	110	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	9.039	107	71	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	0.000		0	N.D.	
55) 1-Methylnaphthalene	9.570	142	72	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	112	N.D.	
59) 2,4,6-Trichlorophenol	9.663	196	106	N.D.	
60) 2,4,5-Trichlorophenol	9.663	196	106	N.D.	
62) 2-Fluorobiphenyl	9.765	172	497221	15.492 ug/mL	99
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	9.896	65	104	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	0.000		0	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	0.000		0	N.D.	
71) 3-Nitroaniline	10.632	138	94	N.D.	
72) Acenaphthene	10.632	154	2864	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.632	109	2078	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	10.688	165	107	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	712	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	0.000		0	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
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Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 18:42:30 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	0.000		0	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	82874	22.475 ug/mL	96
94)	Sulfotepp	11.624	97	92	N.D.	
95)	Diallate	11.694	86	76	N.D.	
96)	Phorate	11.775	75	216	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.036	87	84	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.506	178	1364	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.506	178	1364	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	98	N.D.	
111)	Methyl Parathion	12.933	109	118	N.D.	
112)	Di-n-butyl phthalate	13.176	149	3668	N.D.	
113)	Parathion	13.453	109	497	N.D.	
114)	4-Nitroquinoline-1-oxide	13.476	190	103	N.D.	
115)	Methapyrilene	13.545	97	1340	N.D.	
116)	Isodrin	13.857	193	224	N.D.	
117)	Fluoranthene	14.038	202	1088	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	784	N.D.	
121)	Terphenyl -D14	14.490	244	520919	22.784 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.073	149	703	N.D.	
125)	p-(dimethylamino)azobe...	14.590	225	168	N.D.	
126)	Chlorobenzilate	14.600	251	92	N.D.	
127)	Famphur	15.755	218	232	No Calib #	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	19.735	272	135	No Calib #	
130)	2-Acetylaminofluorene	15.457	181	351	N.D.	
131)	3,3'-Dichlorobenzidine	15.964	252	93	N.D.	
132)	Benzo(a)anthracene	16.085	228	3505	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.997	149	36450	3.383 ug/mL	96
134)	Chrysene	16.085	228	3505	N.D.	
135)	Di-n-octyl phthalate	17.265	149	559	N.D.	
136)	Hexachlorophene	19.015	196	988	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.235	256	73	N.D.	
139)	Benzo(b)fluoranthene	18.252	252	1190	N.D.	
140)	Benzo(k)fluoranthene	18.252	252	1190	N.D.	
141)	Benzo(a)pyrene	18.896	252	904	N.D.	
142)	3-Methylcholanthrene	19.523	268	200	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.768	276	496	N.D.	
144)	Dibenzo(a,h)anthracene	20.786	278	419	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	1005	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 18:42:30 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

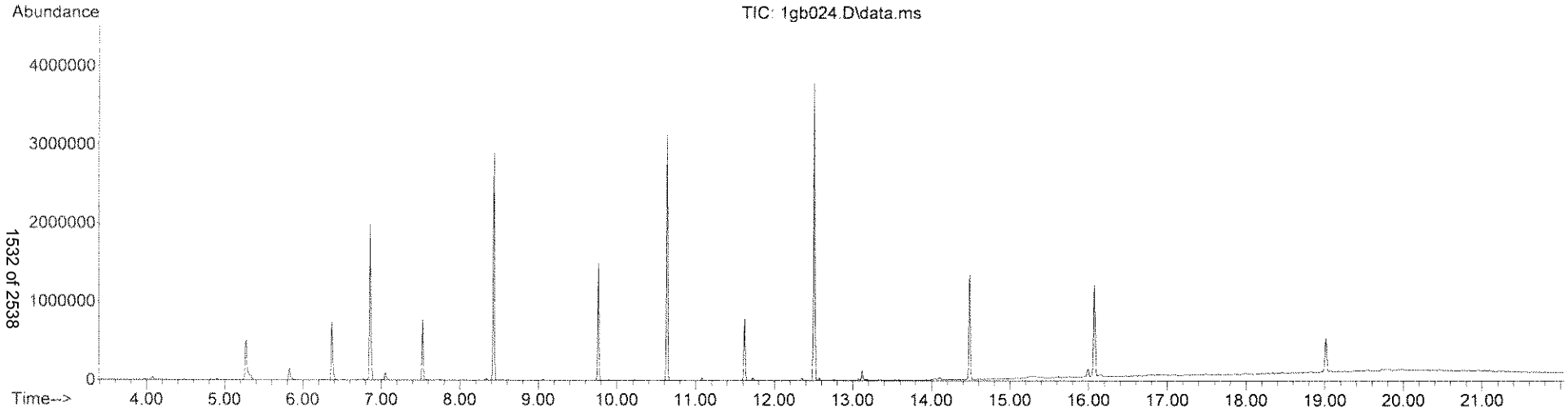
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

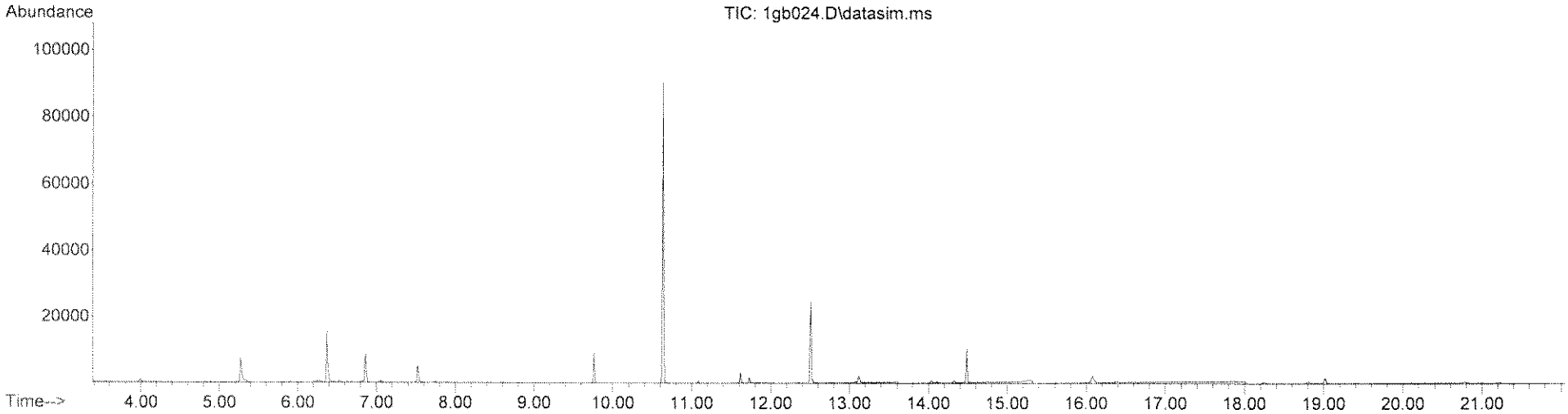
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 18:42:30 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 23:41:33 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

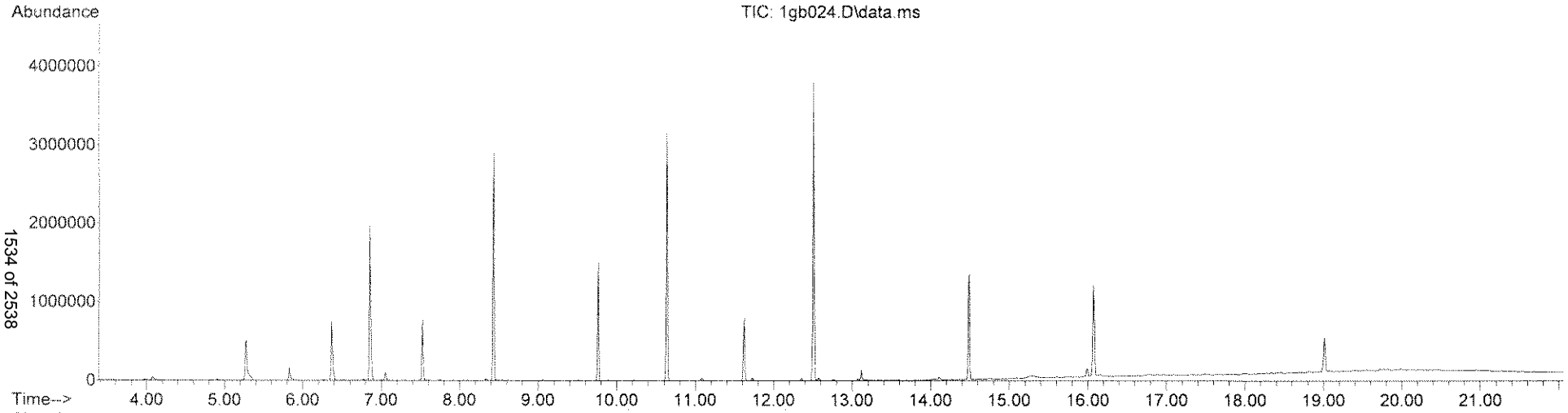
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	351562	40.00	ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1502099	40.00	ug/mL	-0.03
5) ACENAPHTHENE-d10	10.632	164	860079	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.506	188	1490222	40.00	ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	563093	40.00	ug/mL	-0.06
10) PERYLENE-d12	19.015	264	243818	40.00	ug/mL	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	6.336	106	80	N.D.		
4) Caprolactam	8.890	113	168	N.D.		
6) 1,1'-Biphenyl	9.765	154	996	N.D.		
7) Atrazine	0.000		0	N.D.		

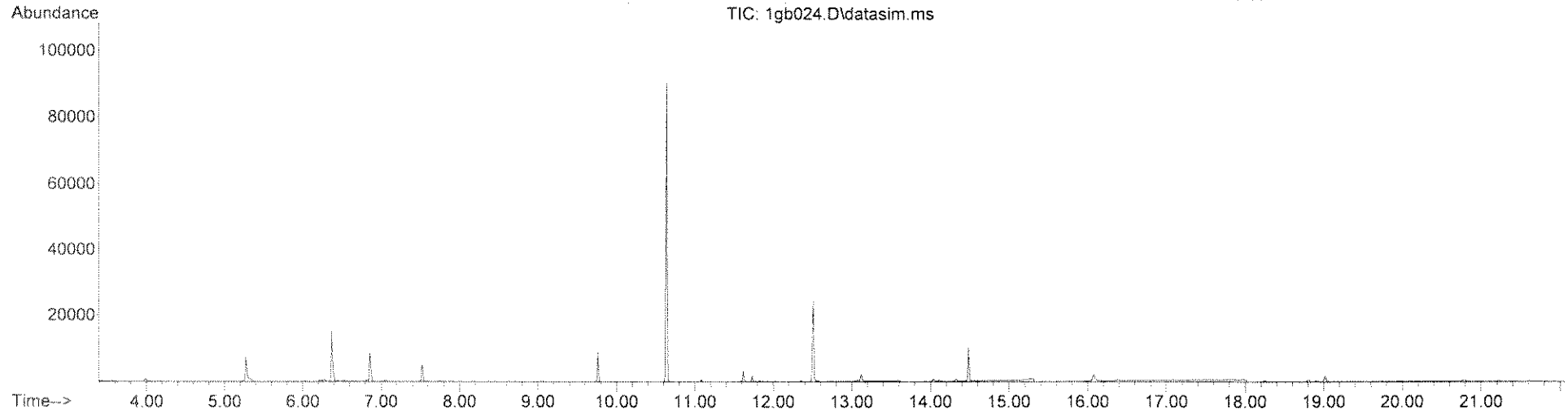
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 07 23:41:33 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb024.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	67	70	76	rBV	41406	81049	2.09%	0.343%
2	5.277	186	190	202	rVB	508766	978422	25.25%	4.140%
3	5.827	242	245	252	rBV	162616	243063	6.27%	1.028%
4	6.366	296	299	310	rBV	745722	1011495	26.11%	4.279%
5	6.856	345	348	353	rBV	1978423	2371160	61.20%	10.032%
6	7.056	365	368	376	rVB	94804	145270	3.75%	0.615%
7	7.526	412	415	418	rBV	769913	833654	21.52%	3.527%
8	8.434	505	509	512	rBV	2902390	3279529	84.65%	13.875%
9	9.765	649	652	654	rBV	1494283	1589646	41.03%	6.726%
10	10.632	742	745	748	rBV	3169630	3680543	95.00%	15.572%
11	11.079	790	793	796	rBV2	33708	41986	1.08%	0.178%
12	11.624	846	849	851	rBV	783503	910714	23.51%	3.853%
13	12.506	928	931	934	rBV	3788907	3874304	100.00%	16.392%
14	13.118	982	984	987	rBV	123090	125525	3.24%	0.531%
15	14.028	1061	1068	1070	rBV7	13922	42041	1.09%	0.178%
16	14.108	1073	1076	1080	rVB	31321	47058	1.21%	0.199%
17	14.490	1111	1114	1116	rVB	1324086	1660476	42.86%	7.025%
18	15.263	1185	1191	1192	rBV6	21298	61998	1.60%	0.262%
19	15.997	1255	1258	1261	rVB	102387	160758	4.15%	0.680%
20	16.074	1261	1265	1268	rBV	1164573	1697551	43.82%	7.182%
21	16.151	1268	1272	1277	rVB5	22934	67808	1.75%	0.287%
22	19.015	1554	1559	1564	rBV	426789	732005	18.89%	3.097%

Sum of corrected areas: 23636055

Signal : TIC: 1gb024.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

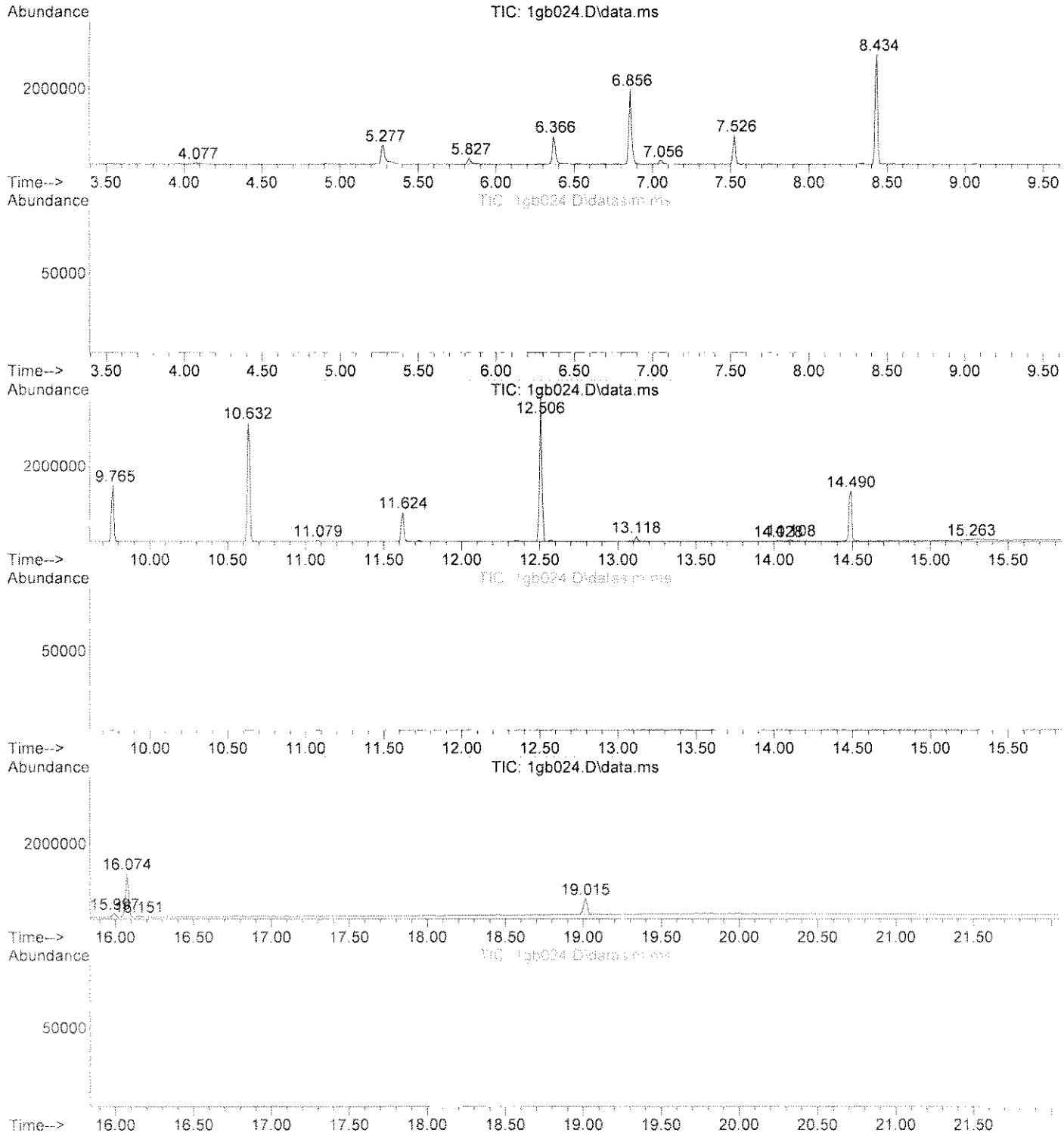
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb024.D
Acq On : 7 Jul 2013 18:02
Operator : jfi
Sample : a303499-11@2x
Misc : 2x brown extract
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 07 23:24:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	441572	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.434	136	1897053	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	1106859	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.506	188	1412311	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	470991	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.015	264	156773	40.00	ug/mL	-0.03
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	263438	15.13	ug/mL	0.00
Spiked Amount 100.000			Recovery = 15.13%			
11) Phenol -D5 (acid surr)	6.366	99	382475	17.85	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 17.85%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	336349	15.15	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 15.15%			
61) 2-Fluorobiphenyl (b/n ...	9.765	172	633465	15.34	ug/mL	0.00
Spiked Amount 100.000			Recovery = 15.34%			
91) 2,4,6-Tribromophenol (...	11.624	330	98710	20.80	ug/mL	0.00
Spiked Amount 100.000			Recovery = 20.80%			
120) Terphenyl -D14 (b/n surr)	14.490	244	405246	18.70	ug/mL	0.00
Spiked Amount 100.000			Recovery = 18.70%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.628	74	521	N.D.		
3) Pyridine	3.688	79	1609	N.D.		
4) 2-Picoline	0.000		0	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	5.007	80	195	N.D.		
8) 2-Fluorophenol	5.277	112	263438	15.134	ug/mL	97
9) N-Nitrosodiethylamine	5.547	102	1799	N.D.		
10) Ethyl methanesulfonate	5.907	79	7931	N.D.		
12) Phenol -D5	6.366	99	382475	17.854	ug/mL	89
13) Pentachloroethane	6.516	167	2155	N.D.		
14) aniline	6.506	93	1421	N.D.		
15) Phenol	6.386	94	3013	N.D.		
16) Bis(2-chloroethyl)ether	6.506	93	1252	N.D.		
17) 2-Chlorophenol	6.606	128	617	N.D.		
18) 1,3-Dichlorobenzene	6.796	146	800	N.D.		
19) 1,4-Dichlorobenzene	6.796	146	800	N.D.		
20) Benzyl Alcohol	7.006	108	531	N.D.		
21) 1,2-Dichlorobenzene	7.076	146	752	N.D.		
22) 2-Methylphenol	7.126	107	570	N.D.		
23) Bis(2-chloroisopropyl)...	7.156	45	1030	N.D.		
24) Acetophenone	0.000		0	N.D. d		
25) 3 & 4-Methylphenol	7.306	108	663	N.D.		
26) N-Nitrosodi-n-propylamine	7.316	70	815	N.D.		
27) N-Nitrosopyrrolidine	7.296	100	164	N.D.		
28) N-Nitrosomorpholine	7.366	56	146	N.D.		
29) Hexachloroethane	7.496	117	408	N.D.		
30) o-Toluidine	7.326	106	2629	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	336349	15.153	ug/mL	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 07 23:24:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.526	77	4000	N.D.	
36) N-Nitrosopiperidine	7.696	114	205	N.D.	
37) Isophorone	7.836	82	2194	N.D.	
38) 2-Nitrophenol	7.946	139	396	N.D.	
39) 2,4-Dimethylphenol	7.996	122	1822	N.D.	
40) Bis(2-chloroethoxy)met...	8.183	93	352	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	8.239	162	265	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	977	N.D.	
45) Naphthalene	8.453	128	6506	N.D.	
46) 4-Chloroaniline	8.499	127	86	N.D.	
47) 2,6-Dichlorophenol	8.518	162	286	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	8.602	223	176	N.D.	
50) N-Nitrosodi-n-Butylamine	8.881	84	440	N.D.	
51) p-Phenylenediamine	8.909	108	85	N.D.	
52) 4-Chloro-3-methylphenol	9.021	107	158	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.319	142	3637	N.D.	
55) 1-Methylnaphthalene	9.440	142	3198	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.533	216	499	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	633465	15.336 ug/mL	99
63) Isosafrole	9.859	162	145	N.D.	
64) 2-Chloronaphthalene	9.924	162	1733	N.D.	
65) 2-Nitroaniline	10.063	65	264	N.D.	
66) 1,4-Naphthoquinone	10.138	158	79	N.D.	
67) Dimethyl phthalate	10.240	163	197	N.D.	
68) m-Dinitrobenzene	10.278	168	90	N.D.	
69) 2,6-Dinitrotoluene	10.305	165	443	N.D.	
70) Acenaphthylene	10.454	152	1246	N.D.	
71) 3-Nitroaniline	10.622	138	666	N.D.	
72) Acenaphthene	10.678	154	15004	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.883	109	303	N.D.	
76) Dibenzofuran	10.883	168	11583	N.D.	
77) 2,4-Dinitrotoluene	10.771	165	325	N.D.	
78) 2-Naphthylamine	10.930	143	75	N.D.	
79) 1-Naphthylamine	11.098	143	99	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	45622	1.196 ug/mL	95
82) 4-Chlorophenyl phenyl ...	11.294	204	156	N.D.	
83) Fluorene	11.323	166	19002	N.D.	
84) Thionazin	11.229	107	321	N.D.	
85) 5-Nitro-o-toluidine	11.247	152	270	N.D.	
86) 4-Nitroaniline	11.333	138	665	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.423	169	1158	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 07 23:24:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.423	169	1158	N.D.	
90)	DPH (as Azobenzene)	11.513	182	4070	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	98710	20.801 ug/mL	97
94)	Sulfotepp	11.614	97	775	N.D.	
95)	Diallate	11.855	86	79	N.D.	
96)	Phorate	11.865	75	75	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.026	87	560	N.D.	
102)	4-Aminobiphenyl	12.298	169	502	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	12.298	173	100	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.541	178	174003	4.290 ug/mL	98
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	0.000		0	N.D. d	
109)	Dinoseb	12.368	211	117	N.D.	
110)	Carbazole	12.783	167	17271	N.D.	
111)	Methyl Parathion	12.945	109	869	N.D.	
112)	Di-n-butyl phthalate	13.176	149	4967	N.D.	
113)	Parathion	13.430	109	1841	N.D.	
114)	4-Nitroquinoline-1-oxide	13.406	190	342	N.D.	
115)	Methapyrilene	13.545	97	1942	N.D.	
116)	Isodrin	13.837	193	318	N.D.	
117)	Fluoranthene	14.038	202	124363	4.238 ug/mL	90
118)	Benzidine	13.847	184	100	N.D.	
119)	Pyrene	14.329	202	96862	3.164 ug/mL	91
121)	Terphenyl -D14	14.490	244	405246	18.703 ug/mL	100
122)	Aramite	14.389	185	292	N.D.	
123)	Benzylbutyl phthalate	15.103	149	837	N.D.	
125)	p-(dimethylamino)azobe...	14.640	225	77	N.D.	
126)	Chlorobenzilate	14.791	251	113	N.D.	
127)	Famphur	15.766	218	87	No Calib #	
128)	3,3'-Dimethylbenzidine	15.052	212	221	N.D.	
129)	Kepone	19.659	272	72	No Calib #	
130)	2-Acetylaminofluorene	15.468	181	355	N.D.	
131)	3,3'-Dichlorobenzidine	15.909	252	139	N.D.	
132)	Benzo(a)anthracene	16.052	228	28516	2.138 ug/mL	95
133)	Bis(2-ethylhexyl)phtha...	15.997	149	28835	3.200 ug/mL	99
134)	Chrysene	16.118	228	28220	2.338 ug/mL	97
135)	Di-n-octyl phthalate	17.243	149	237	N.D.	
136)	Hexachlorophene	19.015	196	225	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.108	256	146	N.D.	
139)	Benzo(b)fluoranthene	18.243	252	15525	2.780 ug/mL	96
140)	Benzo(k)fluoranthene	0.000		0	N.D. d	
141)	Benzo(a)pyrene	18.904	252	8709	1.924 ug/mL	83
142)	3-Methylcholanthrene	19.549	268	219	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.768	276	3438	N.D.	
144)	Dibenzo(a,h)anthracene	20.777	278	996	N.D.	
145)	Benzo(g,h,i)perylene	21.215	276	3108	1.001 ug/mL#	48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 07 23:24:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
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Quant Time: Jul 07 23:24:47 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
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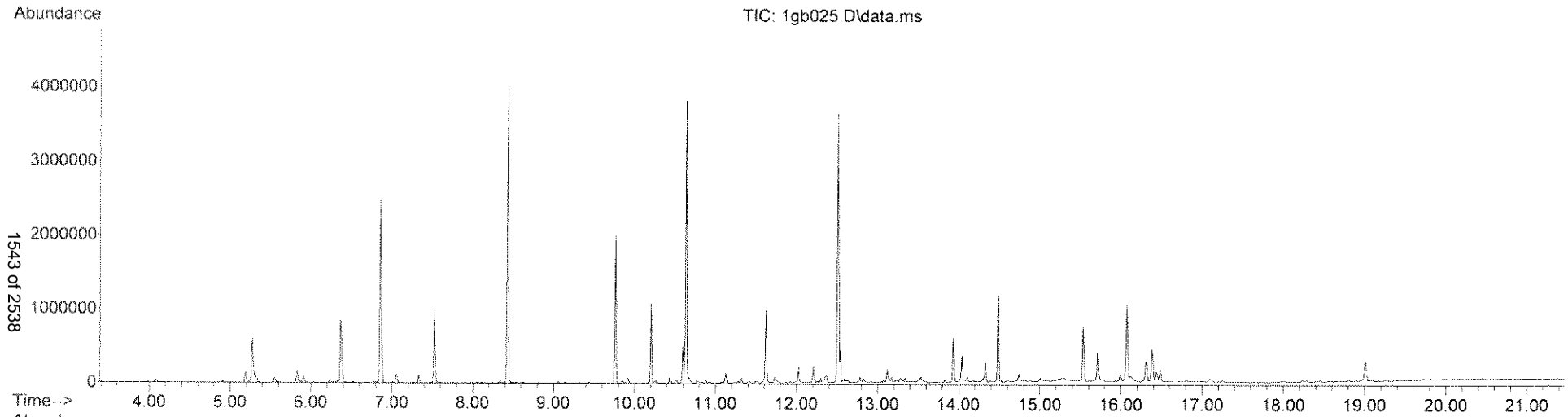
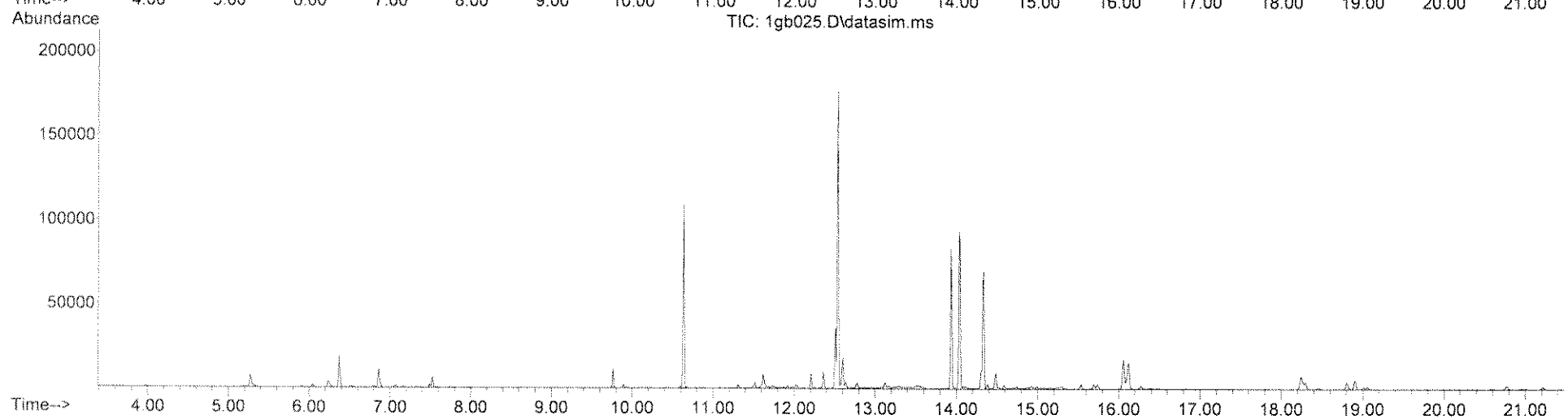
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 07 23:41:35 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

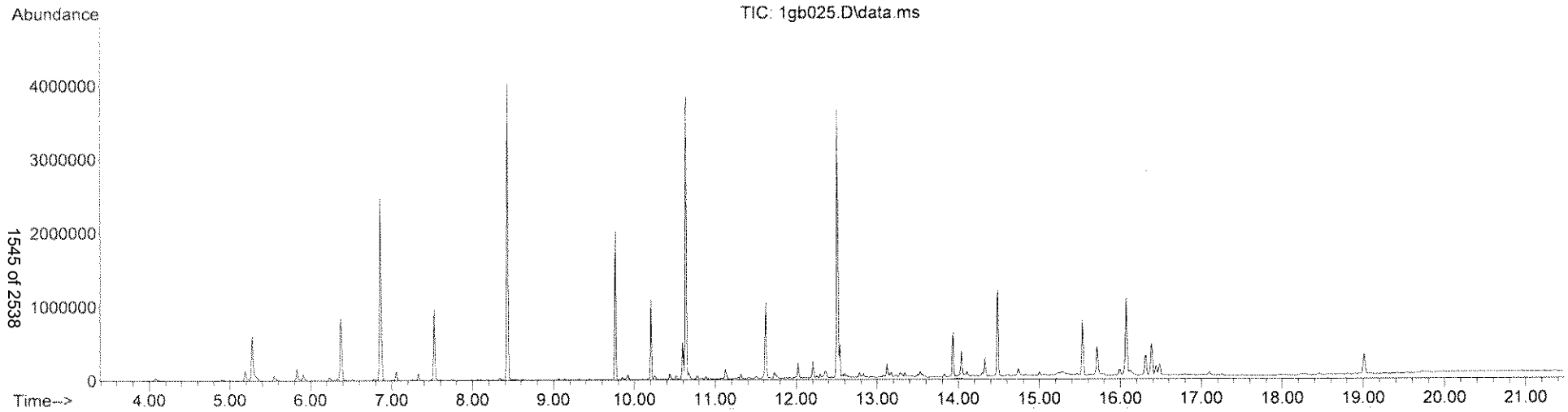
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	441572	40.00 ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1897053	40.00 ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	1106859	40.00 ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1412311	40.00 ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	470991	40.00 ug/mL	-0.06
10) PERYLENE-d12	19.015	264	156773	40.00 ug/mL	-0.06
Target Compounds					Qvalue
2) Benzaldehyde	6.327	106	6310	N.D.	
4) Caprolactam	8.937	113	107	N.D.	
6) 1,1'-Biphenyl	9.896	154	1663	N.D.	
7) Atrazine	0.000		0	N.D.	

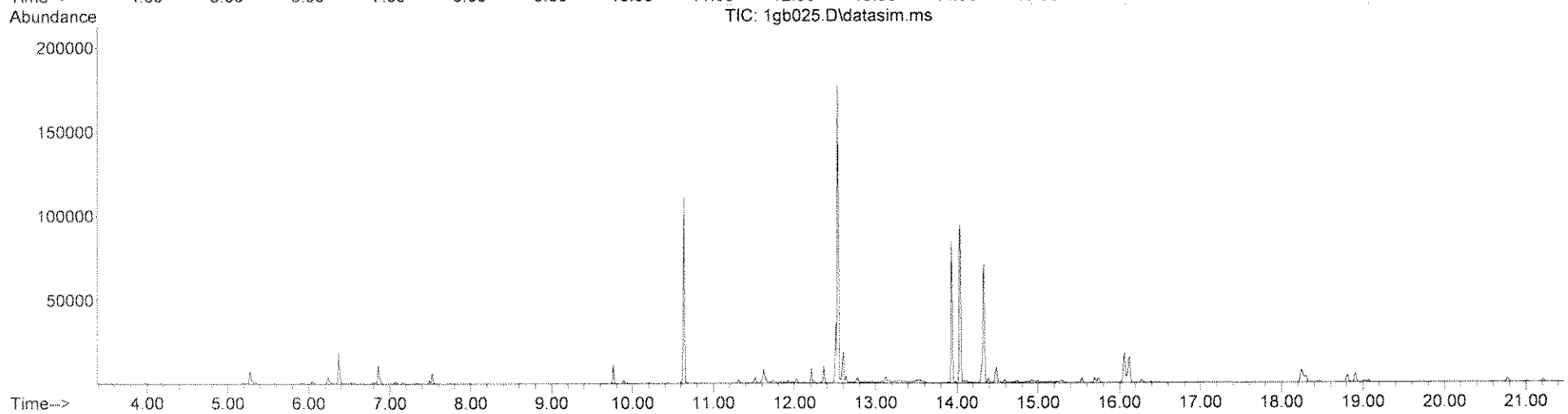
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 07 23:41:35 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb025.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	67	70	78	rBV	35661	70206	1.48%	0.189%
2	5.187	178	181	187	rBV	137686	237756	5.02%	0.640%
3	5.277	187	190	202	rVB	598974	1093866	23.09%	2.942%
4	5.547	214	217	227	rVB2	68251	128687	2.72%	0.346%
5	5.827	242	245	251	rBV	172945	257727	5.44%	0.693%
6	5.907	251	253	260	rVB	94169	135680	2.86%	0.365%
7	6.237	283	286	291	rBV	50782	93566	1.97%	0.252%
8	6.366	297	299	306	rVB	842916	1168444	24.66%	3.143%
9	6.856	345	348	353	rBV	2467940	2942996	62.12%	7.916%
10	7.056	365	368	373	rVB	121900	170704	3.60%	0.459%
11	7.336	393	396	398	rVB	96066	119011	2.51%	0.320%
12	7.526	412	415	418	rBV	954327	1003145	21.17%	2.698%
13	8.434	506	509	512	rBV	4025064	4146217	87.52%	11.153%
14	9.765	649	652	655	rBV	2001094	2026244	42.77%	5.450%
15	9.924	664	669	674	rVB4	69379	126158	2.66%	0.339%
16	10.203	696	699	702	rVV	1078328	1014944	21.42%	2.730%
17	10.250	702	704	707	rVB	47318	51407	1.09%	0.138%
18	10.436	722	724	729	rBV2	79692	103221	2.18%	0.278%
19	10.510	729	732	735	rBV	44779	58510	1.24%	0.157%
20	10.594	738	741	743	rBV	491336	572750	12.09%	1.541%
21	10.641	743	746	748	rVV	3834779	4737540	100.00%	12.743%
22	10.669	748	749	755	rVB2	80226	121934	2.57%	0.328%
23	10.781	758	761	763	rBV2	53412	70741	1.49%	0.190%
24	11.126	795	798	802	rBV2	132579	183454	3.87%	0.493%
25	11.323	816	819	823	rVB	68365	84351	1.78%	0.227%
26	11.513	834	838	840	rBV4	28150	57697	1.22%	0.155%
27	11.624	846	849	857	rVB	1033711	1205416	25.44%	3.242%
28	11.734	857	860	868	rVB4	83941	173115	3.65%	0.466%
29	12.026	886	889	892	rVB	205619	205120	4.33%	0.552%
30	12.206	903	905	907	rVB	227446	261725	5.52%	0.704%
31	12.298	911	913	914	rBV	58274	57646	1.22%	0.155%
32	12.356	914	918	924	rVB3	90132	214858	4.54%	0.578%
33	12.506	928	931	936	rBV2	3626487	4524402	95.50%	12.170%
34	12.598	936	939	940	rBV2	46703	61740	1.30%	0.166%
35	12.783	952	955	958	rBV3	64437	95422	2.01%	0.257%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

36	13.072	978	980	982	rBV2	33804	47417	1.00%	0.128%
37	13.118	982	984	987	rVV2	179245	246373	5.20%	0.663%
38	13.176	987	989	991	rVB	58024	82419	1.74%	0.222%
39	13.279	996	998	1002	rBV4	53210	122164	2.58%	0.329%
40	13.337	1002	1003	1006	rVB	48343	56811	1.20%	0.153%
41	13.533	1018	1020	1021	rBV	50878	47698	1.01%	0.128%
42	13.827	1046	1048	1050	rBV2	49995	55377	1.17%	0.149%
43	13.937	1056	1059	1061	rBV	589624	723454	15.27%	1.946%
44	14.038	1066	1069	1072	rVV	347406	415232	8.76%	1.117%
45	14.108	1074	1076	1079	rVB2	59191	73334	1.55%	0.197%
46	14.299	1091	1095	1096	rBV3	50993	77368	1.63%	0.208%
47	14.329	1096	1098	1101	rVB	248300	265652	5.61%	0.715%
48	14.490	1111	1114	1116	rVB	1144958	1431706	30.22%	3.851%
49	14.610	1121	1126	1130	rBV7	15703	50126	1.06%	0.135%
50	14.741	1136	1139	1146	rVB5	97441	150866	3.18%	0.406%
51	15.002	1162	1165	1168	rBV2	44509	56213	1.19%	0.151%
52	15.233	1184	1188	1189	rBV3	24639	53935	1.14%	0.145%
53	15.534	1213	1216	1219	rBV	741018	957445	20.21%	2.575%
54	15.710	1228	1232	1237	rBV	381697	645965	13.64%	1.738%
55	15.997	1254	1258	1260	rBV	78584	133069	2.81%	0.358%
56	16.074	1260	1265	1268	rVV	1039199	1555076	32.82%	4.183%
57	16.118	1268	1269	1278	rVB2	70405	174849	3.69%	0.470%
58	16.317	1283	1287	1290	rVV	267215	472563	9.97%	1.271%
59	16.383	1290	1293	1296	rVV	427499	677207	14.29%	1.822%
60	16.438	1296	1298	1300	rVV	128663	203593	4.30%	0.548%
61	16.482	1300	1302	1306	rVB	153774	244845	5.17%	0.659%
62	17.099	1355	1358	1365	rVB	46838	105350	2.22%	0.283%
63	19.015	1554	1559	1563	rVB	270842	473736	10.00%	1.274%

Sum of corrected areas: 37176243

Signal : TIC: 1gb025.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

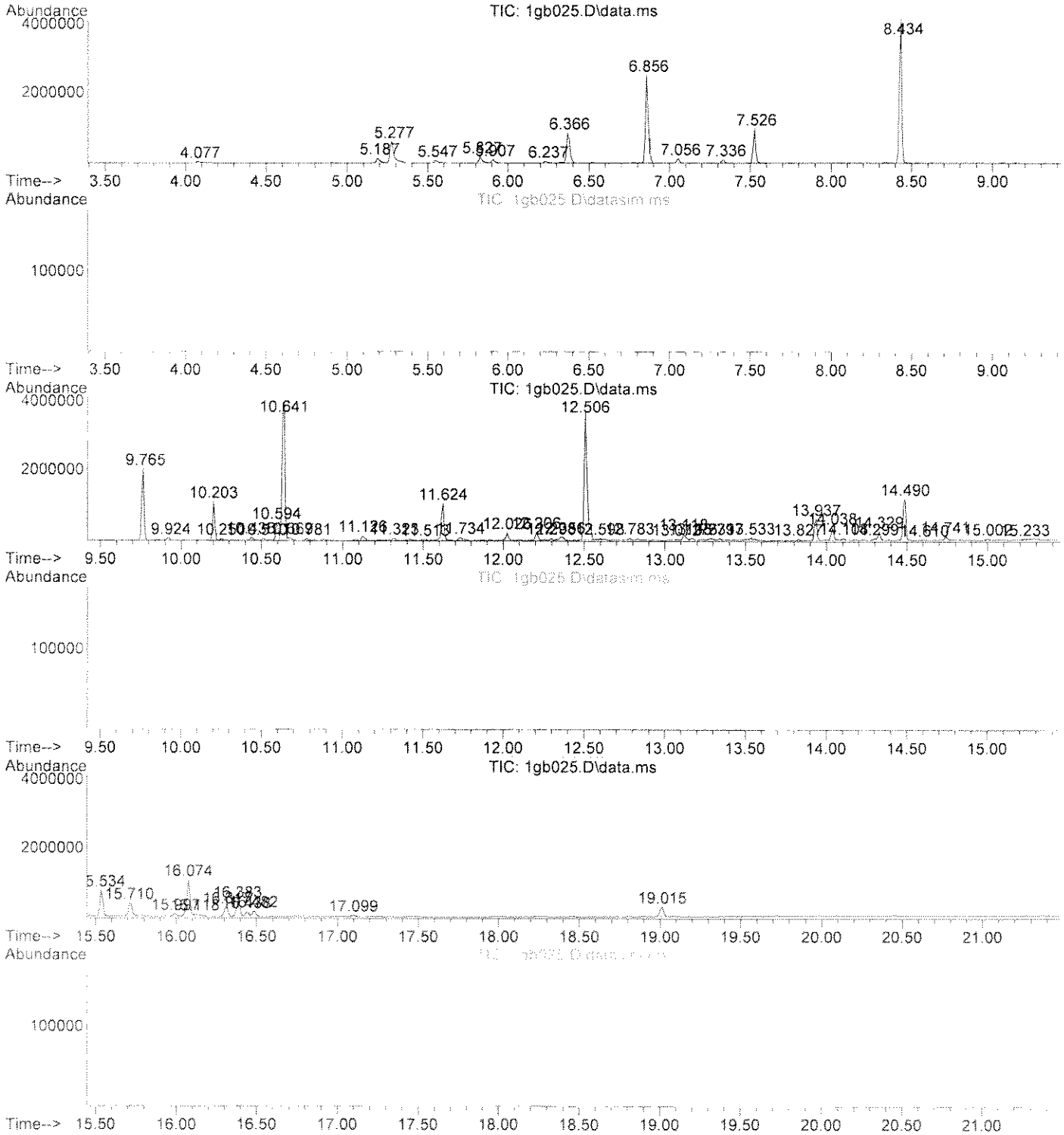
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Caryophyllene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.203	8.57	1014940	ACENAPHTHENE-D10	10.641

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Caryophyllene	204	C15H24	000087-44-5	98
2	Caryophyllene	204	C15H24	000087-44-5	95
3	Bicyclo[7.2.0]undec-4-ene, 4,11,...	204	C15H24	000118-65-0	93
4	Caryophyllene	204	C15H24	000087-44-5	92
5	Bicyclo[5.2.0]nonane, 2-methylen...	204	C15H24	1000159-38-9	83

****
Peak Number 2 Drometrizole Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.937	6.40	723454	PHENANTHRENE-D10	12.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Drometrizole	225	C13H11N3O	002440-22-4	97
2	Drometrizole	225	C13H11N3O	002440-22-4	95
3	4,5-Diamino-2-phenyl(2H)benzotri...	225	C12H11N5	1000110-66-4	30
4	1,2-Benzenedicarboxylic acid, di...	318	C20H14O4	000084-62-8	14
5	Imidazole-5-propenoic acid, 4-(4...	284	C15H16N4O2	1000129-48-8	10

****
Peak Number 3 Pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.329	6.83	265652	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene	202	C16H10	000129-00-0	93
2	Pyrene	202	C16H10	000129-00-0	90
3	Fluoranthene	202	C16H10	000206-44-0	83
4	Fluoranthene	202	C16H10	000206-44-0	81
5	Fluoranthene	202	C16H10	000206-44-0	81

****
Peak Number 4 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.534	24.63	957445	CHRYSENE-D12	16.074

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1-(2-vinylphenyl)pr...	188	C13H16O	1000210-99-9	52
2	trans-1-Cinnamoylimidazole	198	C12H10N2O	001138-15-4	50
3	Cinnamoylglycine, methyl ester	219	C12H13NO3	040778-04-9	49
4	2-Propenoic acid, 3-phenyl-, met...	162	C10H10O2	001754-62-7	47
5	3-p-Tolylprop-2-enal	146	C10H10O	1000202-14-8	45

****
Peak Number 5 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.711	16.62	645965	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzylidene-l-ornithine	220	C12H16N2O2	1000128-78-4	38
2	Cinnamyl-.beta.-phenylpropionate	266	C18H18O2	1000129-35-9	37
3	3-Phenylthiane,S-oxide	194	C11H14OS	1000215-92-3	22
4	Benzonitrile, m-phenethyl-	207	C15H13N	034176-91-5	16
5	Butanamide, 3-hydroxy-3-methyl-N...	223	C12H17NO3	1000185-71-6	14

****
Peak Number 6 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.317	12.16	472563	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(2,3-Diphenylcyclopropyl)methyl ...	332	C22H20OS	1000142-94-7	53
2	5-Methyl-2-phenylindolizine	207	C15H13N	036944-99-7	43
3	1-Propene, 3-(2-cyclopentenyl)-2...	274	C21H22	1000154-23-3	40
4	1H-Indole, 1-methyl-2-phenyl-	207	C15H13N	003558-24-5	38
5	1H-Indole, 2-methyl-3-phenyl-	207	C15H13N	004757-69-1	38

****
Peak Number 7 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.383	17.42	677207	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(2,3-Diphenylcyclopropyl)methyl ...	332	C22H20OS	1000142-94-7	38
2	Benzeneacetonitrile, .alpha.-met...	129	C9H7N	000495-10-3	22
3	1-butyne, 4-chloro-3-methyl-3-ph...	178	C11H11Cl	1000161-45-9	22

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

4	(1-Ethylbuta-1,3-dienyl)benzene	158	C12H14	1000210-05-6	16
5	5H-Benzocycloheptene, 6,7-dihydro-	144	C11H12	007125-62-4	12

****
Peak Number 8 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.438	5.24	203593	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(2,3-Diphenylcyclopropyl)methyl ...	332	C22H20OS	1000142-94-7	50
2	Naphthalene, 1,2-dihydro-2-methyl-	144	C11H12	021564-79-4	35
3	2-Chloro-1-(2-methyl-allyl)-1,2,...	220	C14H17Cl	1000185-82-6	35
4	1-butyne, 4-chloro-3-methyl-3-ph...	178	C11H11Cl	1000161-45-9	25
5	1-(2-Methyl-allyl)-1,2,3,4-tetra...	202	C14H18O	1000192-52-9	25

****
Peak Number 9 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.482	6.30	244845	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(2,3-Diphenylcyclopropyl)methyl ...	332	C22H20OS	1000142-94-7	50
2	3,6-Diphenyl-4H-(1,2,3)triazolo(...	290	C16H10N4O2	1000146-05-6	37
3	Naphthalene, 1,2-dihydro-2-methyl-	144	C11H12	021564-79-4	35
4	Quinoline	129	C9H7N	000091-22-5	35
5	Benzeneacetonitrile, .alpha.-met...	129	C9H7N	000495-10-3	35

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb025.D
Acq On : 7 Jul 2013 18:31
Operator : jfi
Sample : a303499-14@2x
Misc : 2x brown extract
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Caryophyllene	10.203	8.6		1014940	3	10.641	4737540	40.0
Drometrizole	13.937	6.4		723454	4	12.506	4524400	40.0
Pyrene	14.329	6.8		265652	5	16.074	1555080	40.0
unknown	15.534	24.6		957445	5	16.074	1555080	40.0
unknown	15.711	16.6		645965	5	16.074	1555080	40.0
unknown	16.317	12.2		472563	5	16.074	1555080	40.0
unknown	16.383	17.4		677207	5	16.074	1555080	40.0
unknown	16.438	5.2		203593	5	16.074	1555080	40.0
unknown	16.482	6.3		244845	5	16.074	1555080	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 23:26:00 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	449847	40.00 ug/mL	-0.01
32) NAPHTHALENE-d8	8.434	136	1942342	40.00 ug/mL	0.00
57) ACENAPHTHENE-d10	10.641	164	1116985	40.00 ug/mL	0.00
93) PHENANTHRENE-d10	12.506	188	1436503	40.00 ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	482725	40.00 ug/mL	-0.02
137) PERYLENE-d12	19.014	264	160089	40.00 ug/mL	-0.03
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.277	112	318340	17.95 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 17.95%		
11) Phenol -D5 (acid surr)	6.366	99	465424	21.33 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 21.33%		
33) Nitrobenzene -D5 (b/n ...	7.526	82	370210	16.29 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 16.29%		
61) 2-Fluorobiphenyl (b/n ...	9.765	172	542393	13.01 ug/mL	0.00
Spiked Amount 100.000			Recovery = 13.01%		
91) 2,4,6-Tribromophenol (...	11.624	330	101684	21.23 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 21.23%		
120) Terphenyl -D14 (b/n surr)	14.490	244	362864	16.46 ug/mL	-0.01
Spiked Amount 100.000			Recovery = 16.46%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.607	74	189	N.D.	
3) Pyridine	3.687	79	1550	N.D.	
4) 2-Picoline	0.000		0	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	0.000		0	N.D.	
8) 2-Fluorophenol	5.277	112	318340	17.952 ug/mL	94
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.916	79	90	N.D.	
12) Phenol -D5	6.366	99	465424	21.326 ug/mL	88
13) Pentachloroethane	6.516	167	2257	N.D.	
14) aniline	6.446	93	109	N.D.	
15) Phenol	0.000		0	N.D.	
16) Bis(2-chloroethyl)ether	6.516	93	304	N.D.	
17) 2-Chlorophenol	6.606	128	424	N.D.	
18) 1,3-Dichlorobenzene	6.796	146	145	N.D.	
19) 1,4-Dichlorobenzene	6.866	146	287	N.D.	
20) Benzyl Alcohol	7.016	108	162	N.D.	
21) 1,2-Dichlorobenzene	7.076	146	190	N.D.	
22) 2-Methylphenol	7.016	107	128	N.D.	
23) Bis(2-chloroisopropyl)...	7.176	45	176	N.D.	
24) Acetophenone	7.336	105	702	N.D.	
25) 3 & 4-Methylphenol	7.306	108	644	N.D.	
26) N-Nitrosodi-n-propylamine	7.196	70	221	N.D.	
27) N-Nitrosopyrrolidine	0.000		0	N.D.	
28) N-Nitrosomorpholine	7.376	56	96	N.D.	
29) Hexachloroethane	7.496	117	301	N.D.	
30) o-Toluidine	0.000		0	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.526	82	370210	16.289 ug/mL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 23:26:00 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.586	77	90	N.D.	
36) N-Nitrosopiperidine	7.816	114	88	N.D.	
37) Isophorone	7.866	82	874	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.996	122	156	N.D.	
40) Bis(2-chloroethoxy)met...	8.099	93	78	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.350	180	271	N.D.	
45) Naphthalene	8.453	128	3395	N.D.	
46) 4-Chloroaniline	8.536	127	74	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.918	84	502	N.D.	
51) p-Phenylenediamine	8.881	108	79	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.439	142	503	N.D.	
55) 1-Methylnaphthalene	9.439	142	503	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	225	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.765	172	542393	13.012 ug/mL	100
63) Isosafrole	9.858	162	79	N.D.	
64) 2-Chloronaphthalene	9.858	162	79	N.D.	
65) 2-Nitroaniline	10.100	65	87	N.D.	
66) 1,4-Naphthoquinone	10.035	158	70	N.D.	
67) Dimethyl phthalate	10.240	163	532	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	10.454	152	601	N.D.	
71) 3-Nitroaniline	10.631	138	115	N.D.	
72) Acenaphthene	10.669	154	1070	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.771	109	190	N.D.	
76) Dibenzofuran	10.883	168	1552	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	10.846	143	73	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.126	149	539	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	11.322	166	1600	N.D.	
84) Thionazin	11.219	107	315	N.D.	
85) 5-Nitro-o-toluidine	11.126	152	90	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.433	169	156	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 23:26:00 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.433	169	156	N.D.	
90)	DPH (as Azobenzene)	11.513	182	551	N.D.	
92)	2,4,6-Tribromophenol	11.624	330	101684	21.233 ug/mL	95
94)	Sulfotepp	11.563	97	1000	N.D.	
95)	Diallate	11.774	86	83	N.D.	
96)	Phorate	11.774	75	91	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.046	87	619	N.D.	
102)	4-Aminobiphenyl	12.275	169	114	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.541	178	20050	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.598	178	4634	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	1885	N.D.	
111)	Methyl Parathion	12.933	109	239	N.D.	
112)	Di-n-butyl phthalate	13.175	149	6790	N.D.	
113)	Parathion	13.418	109	956	N.D.	
114)	4-Nitroquinoline-1-oxide	13.591	190	125	N.D.	
115)	Methapyrilene	13.666	97	518	N.D.	
116)	Isodrin	13.827	193	327	N.D.	
117)	Fluoranthene	14.038	202	19874	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.329	202	15886	N.D.	
121)	Terphenyl -D14	14.490	244	362864	16.465 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.102	149	670	N.D.	
125)	p-(dimethylamino)azobe...	14.590	225	119	N.D.	
126)	Chlorobenzilate	14.721	251	89	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	15.062	212	86	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.468	181	86	N.D.	
131)	3,3'-Dichlorobenzidine	15.975	252	85	N.D.	
132)	Benzo(a)anthracene	16.052	228	7738	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.986	149	8909	N.D.	
134)	Chrysene	16.118	228	7733	N.D.	
135)	Di-n-octyl phthalate	17.287	149	949	N.D.	
136)	Hexachlorophene	19.006	196	178	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	18.243	252	6832	1.198 ug/mL	95
140)	Benzo(k)fluoranthene	0.000		0	N.D. d	
141)	Benzo(a)pyrene	18.904	252	3004	N.D.	
142)	3-Methylcholanthrene	19.447	268	234	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	1559	N.D.	
144)	Dibenzo(a,h)anthracene	20.777	278	610	N.D.	
145)	Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 23:26:00 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

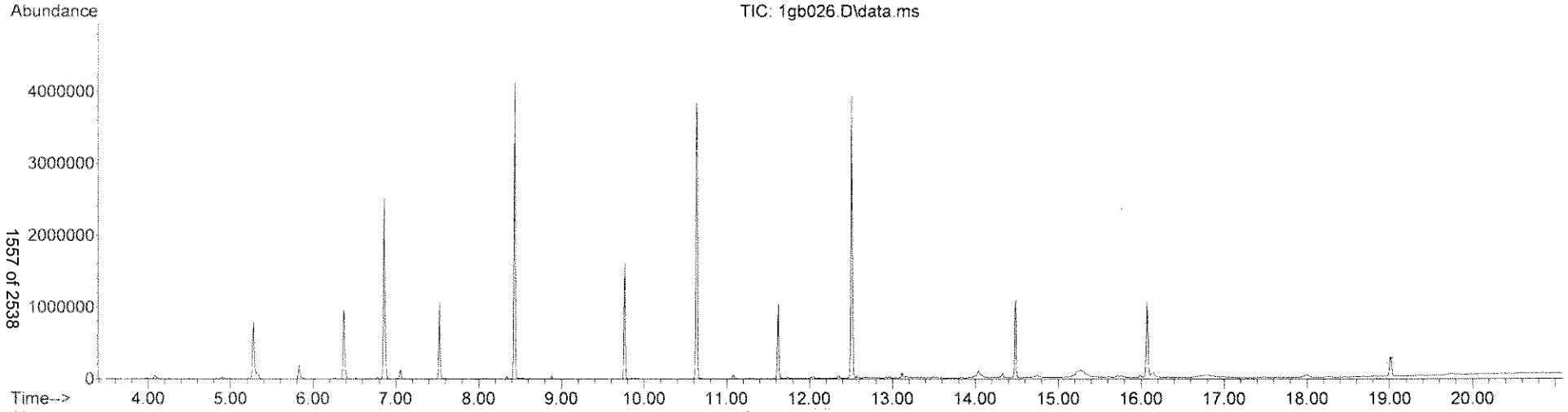
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

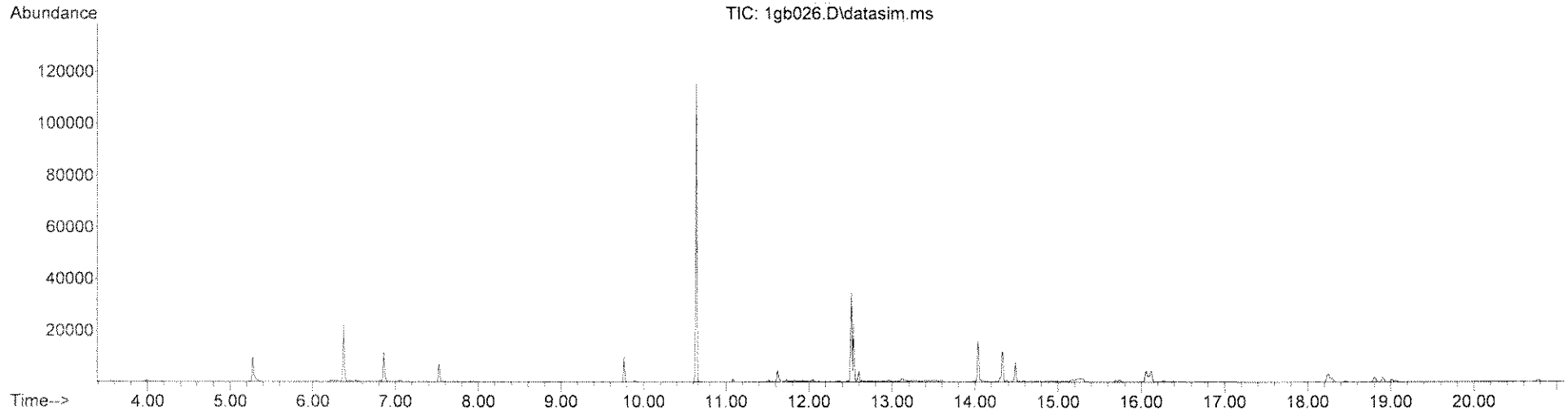
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 23:26:00 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : lgb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 23:41:37 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

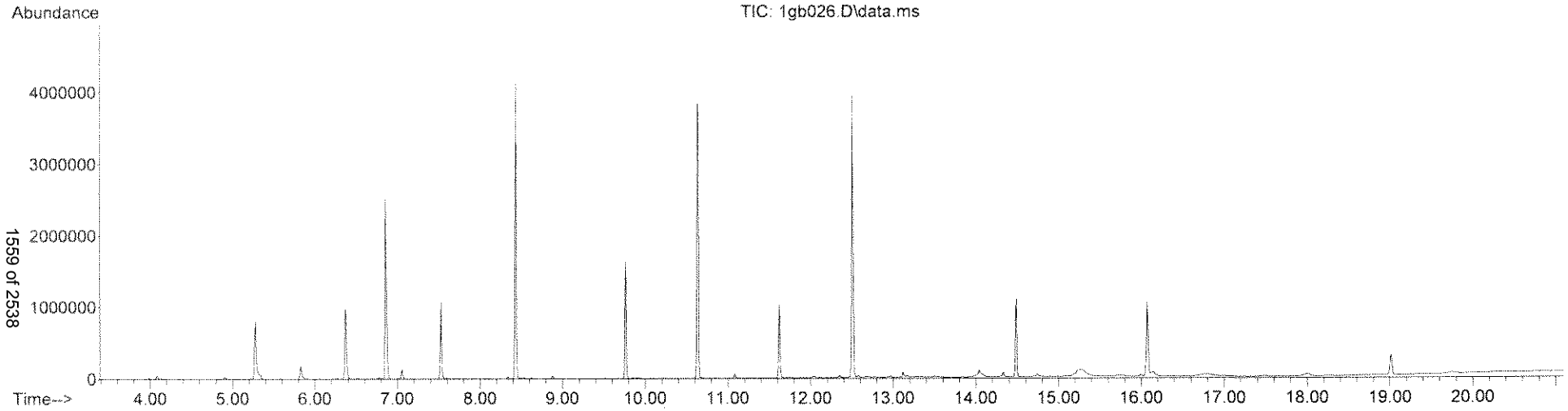
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.856	152	449847	40.00 ug/mL	-0.03
3) NAPHTHALENE-d8	8.434	136	1942342	40.00 ug/mL	-0.03
5) ACENAPHTHENE-d10	10.641	164	1116985	40.00 ug/mL	-0.03
8) PHENANTHRENE-d10	12.506	188	1436503	40.00 ug/mL	-0.03
9) CHRYSENE-d12	16.074	240	482725	40.00 ug/mL	-0.06
10) PERYLENE-d12	19.014	264	160089	40.00 ug/mL	-0.06
Target Compounds					Qvalue
2) Benzaldehyde	6.326	106	587	N.D.	
4) Caprolactam	8.881	113	5899	1.409 ug/mL	92
6) 1,1'-Biphenyl	9.896	154	497	N.D.	
7) Atrazine	0.000		0	N.D.	

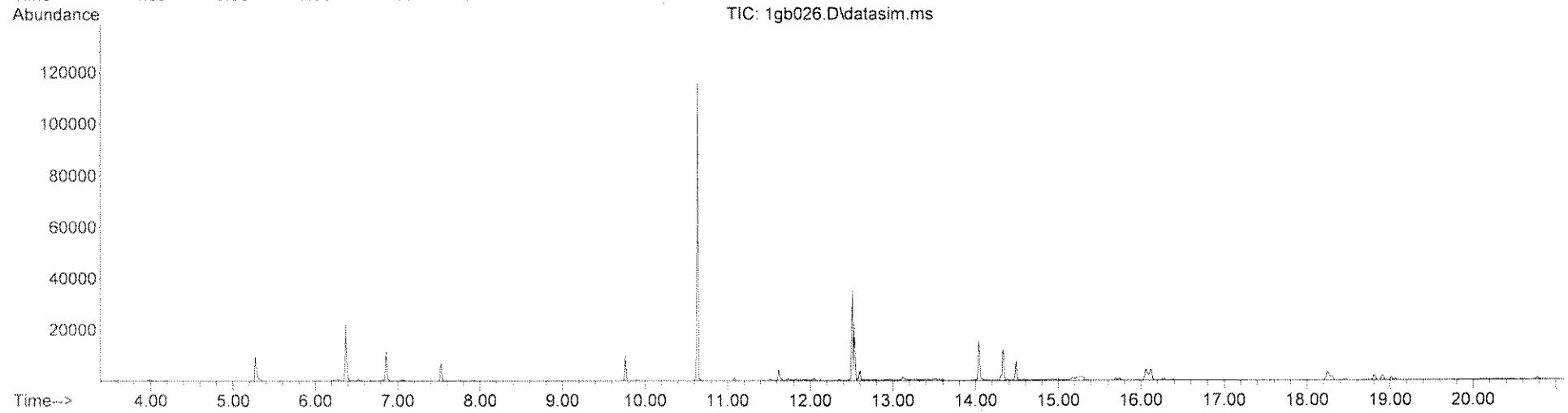
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 07 23:41:37 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gb026.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.077	68	70	77	rBV	44574	84861	1.78%	0.298%
2	5.277	187	190	200	rVB	791777	1282647	26.96%	4.507%
3	5.827	242	245	251	rBV	201646	293401	6.17%	1.031%
4	6.366	296	299	311	rBV	969518	1412744	29.70%	4.964%
5	6.856	345	348	353	rBV	2516478	3039458	63.90%	10.680%
6	7.056	365	368	373	rVB	129559	174070	3.66%	0.612%
7	7.526	412	415	418	rBV	1061057	1129301	23.74%	3.968%
8	8.434	506	509	512	rBV	4142414	4219872	88.71%	14.827%
9	8.881	554	557	562	rBV	45910	51094	1.07%	0.180%
10	9.765	649	652	654	rBV	1625975	1736896	36.51%	6.103%
11	10.631	742	745	748	rBV	3839458	4756854	100.00%	16.714%
12	11.079	791	793	796	rBV	58380	61048	1.28%	0.215%
13	11.624	846	849	853	rVB	1030888	1166141	24.51%	4.097%
14	12.356	914	918	921	rBV	37880	58199	1.22%	0.204%
15	12.506	928	931	934	rBV	3921623	4128221	86.78%	14.505%
16	12.575	935	937	941	rVB2	33446	50752	1.07%	0.178%
17	12.702	941	948	950	rBV6	15747	59635	1.25%	0.210%
18	13.118	981	984	987	rBV2	73928	94865	1.99%	0.3[illegible]
19	14.038	1061	1069	1078	rBV2	92081	293289	6.17%	[illegible]
20	14.329	1096	1098	1101	rVB	65479	78561	1.65[illegible]	
21	14.490	1111	1114	1116	rVB	1076130	1316317		
22	15.243	1179	1189	1190	rBV2	82153	2[illegible]		
23	15.710	1228	1232	1234	rBV2	25652			
24	15.997	1255	1258	1261	rBV	24338			
25	16.074	1261	1265	1268	rVV	1040226	15[illegible]		
26	16.151	1268	1272	1281	rVB4	63499	229[illegible]		
27	16.769	1314	1328	1330	rBV2	29560	177[illegible]		
28	18.003	1432	1440	1448	rBV3	35009	1680[illegible]		
29	19.014	1554	1559	1563	rBV	272875	47464		

Sum of corrected areas:

Signal : TIC: 1gb026.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	c[illegible] % [illegible]

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

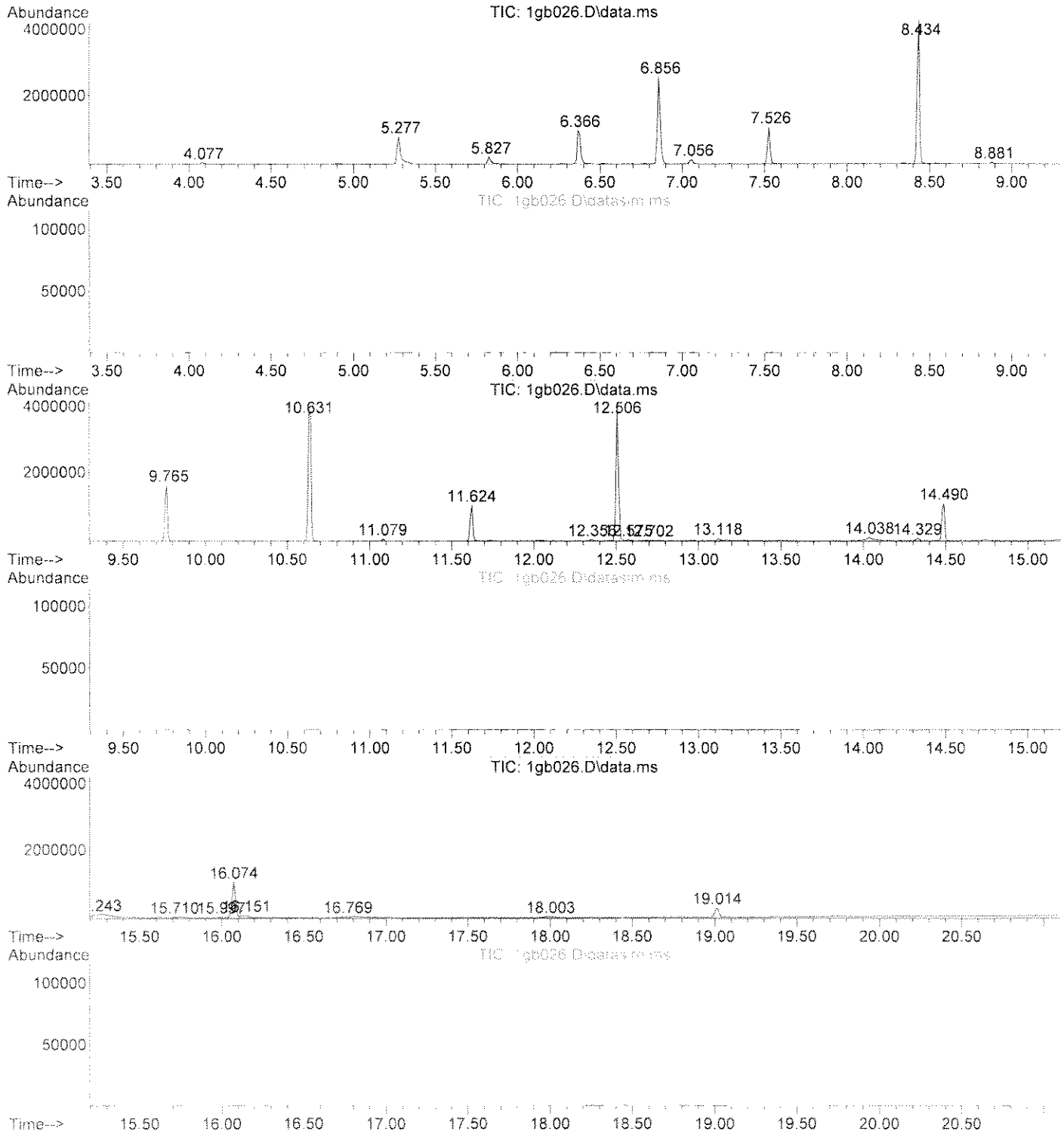
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.243	7.30	280191	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	64
2	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	59
3	3-Hexanol	102	C6H14O	000623-37-0	58
4	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	53
5	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	53

****
Peak Number 2 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.151	5.99	229688	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	64
2	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	59
3	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	50
4	2,5,8,11-Tetraoxatetradecan-13-o...	264	C13H28O5	020324-34-9	47
5	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	42

****
Peak Number 3 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.769	4.63	177625	CHRYSENE-D12	16.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	50
2	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	50
3	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	50
4	Allyl dithioacetate	132	C5H8S2	1000143-97-6	50
5	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	50

****
Peak Number 4 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.003	14.16	168057	PERYLENE-D12	19.014

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dipropylene glycol	134	C6H14O3	025265-71-8	47
2	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	47
3	3-Hexanol, 1,5-dimethoxy-2,4-dim...	190	C10H22O3	013897-22-8	43
4	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	42
5	2-[5-(1-Hydroxy-1-methylethyl)-2...	218	C11H22O4	1000190-33-6	40

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070713\
Data File : 1gb026.D
Acq On : 7 Jul 2013 18:58
Operator : jfi
Sample : a303499-17@2x
Misc : 2x brown extract
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown	15.243	7.3		280191	5	16.074	1535070	40.0
unknown	16.151	6.0		229688	5	16.074	1535070	40.0
unknown	16.769	4.6		177625	5	16.074	1535070	40.0
unknown	18.003	14.2		168057	6	19.014	474648	40.0

ANALYSIS SEQUENCE

AA24841

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/8/2013 15:10:33

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24841-TUN1	QC		1		A3C0367	A3B0304		
AA24841-CCV1	QC		2		A3G0032	A3B0304		
AA24841-CCV2	QC		3		A3G0016	A3B0304		
AA24841-CRL1	QC		4		A3G0061	A3B0304		
3G08001-BLK1	QC		5			A3B0304		
3G08001-BS1	QC		6			A3B0304		
3G08001-BSD1	QC		7			A3B0304		
A303380-10RE1	8270D TICs	F	8			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recoveries Added 7/6/20
A303380-10RE1	8270D TCL SOM01.2 DOD	F	9			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recoveries Added 7/6/20
A303448-02RE1	8270D TICs	A	10			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303448-02RE1	8270D TCL SOM01.2 DOD	A	11			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303448-06RE1	8270D TICs	A	12			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303448-06RE1	8270D TCL SOM01.2 DOD	A	13			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303448-07RE1	8270D TICs	A	14			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303448-07RE1	8270D TCL SOM01.2 DOD	A	15			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303479-03RE1	8270D TCL SOM01.2 DOD	A	16			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303479-03RE1	8270D TICs	A	17			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303499-07RE1	8270D TICs	E	18			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303499-07RE1	8270D TCL SOM01.2 DOD	E	19			A3B0304	CH2M Hill, Inc. (CH025)	low surrogate recovery Added 7/6/201
A303499-14RE1	8270D TCL SOM01.2 DOD	D	20			A3B0304	CH2M Hill, Inc. (CH025)	last 2 int std low due to suspect matrix
A303499-17RE1	8270D TCL SOM01.2 DOD	D	21			A3B0304	CH2M Hill, Inc. (CH025)	int std low due to matrix effect, run s 5
A303334-05RE1	8270D TCL SOM01.2 DOD	A	22			A3B0304	CH2M Hill, Inc. (CH025)	int std low due to matrix effect, run s 5

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

PREPARATION BENCH SHEET

Printed: 7/8/2013 12:26:05AM

3G08001

ENCO Orlando

Analysis
8270D DOD Extended [EPA 8270D]
8270D TCL SOM01.2 DOD [EPA 8270D]
8270D TICs [EPA 8270D]

Surrogate Solution
~~A3E0420~~ BNA Surrogate Working
A3F0288 YM 7-8-13

Prepared using: EPA 3550C_MS

Spiking Solution
A3F0184 BNA DOD additional SPIKE
A3E0430 YM MIX
~~A3G0123~~ 7-8-13 BNA Spike Mix Working

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3G08001-BLK1		Blank		QC	-	-	30	1			1000		
3G08001-BS1		LCS		QC	-	-	30	1	A3G0123 A3F0184	1000 1000	1000		
3G08001-BSD1		LCS Dup		QC	-	-	30	1	A3G0123 A3F0184	1000 1000	1000		
A303380-10RE1	1 D	TR-5TH-SB01-0.5-01-0613 F[C10]	03-Jul-13	8270D TCL SOM01.2 DOD	-	-	30.1	1			1000		low surrogate recoveries Added
A303380-10RE1	1 D	TR-5TH-SB01-0.5-01-0613 F[C10]	03-Jul-13	8270D TICs	-	-	30.1	1			1000		low surrogate recoveries Added
A303448-02RE1	2 D	TR-5TH-SB03-0.5-01-0613 A[C10]	09-Jul-13	8270D TCL SOM01.2 DOD	-	-	30	1			1000		low surrogate recovery Added 7/
A303448-02RE1	2 D	TR-5TH-SB03-0.5-01-0613 A[C10]	09-Jul-13	8270D TICs	-	-	30	1			1000		low surrogate recovery Added 7/
A303448-06RE1	3 D	TR-5TH-SB04D-0.5-01-0613 A[C11]	09-Jul-13	8270D TICs	-	-	30.4	1			1000		low surrogate recovery Added 7/
A303448-06RE1	3 D	TR-5TH-SB04D-0.5-01-0613 A[C11]	09-Jul-13	8270D TCL SOM01.2 DOD	-	-	30.4	1			1000		low surrogate recovery Added 7/
A303448-07RE1	4 D	TR-5TH-SB04D-04-06-0613 A[C11]	09-Jul-13	8270D TICs	-	-	30.2	1			1000		low surrogate recovery Added 7/ clay
A303448-07RE1	4 D	TR-5TH-SB04D-04-06-0613 A[C11]	09-Jul-13	8270D TCL SOM01.2 DOD	-	-	30.2	1			1000		low surrogate recovery Added 7/ clay
A303448-07RE2	4 D	TR-5TH-SB04D-04-06-0613 A[C11]	09-Jul-13	8270D TICs	-	-	30.2	1			1000		low surrogate recovery Added 7/
A303479-03RE1	5 D	TR-5TH-SB05-0.5-01-0613 A[C11]	10-Jul-13	8270D TCL SOM01.2 DOD	-	-	30	1			1000		low surrogate recovery Added 7/
A303479-03RE1	5 D	TR-5TH-SB05-0.5-01-0613 A[C11]	10-Jul-13	8270D TICs	-	-	30	1			1000		low surrogate recovery Added 7/
A303499-07RE1	6 D	TR-2ND-SB07-04-06-0613 E[C11]	11-Jul-13	8270D TCL SOM01.2 DOD	-	-	30.2	1			1000		low surrogate recovery Added 7/ clay
A303499-07RE1	6 D	TR-2ND-SB07-04-06-0613 E[C11]	11-Jul-13	8270D TICs	-	-	30.2	1			1000		low surrogate recovery Added 7/ clay
A303554-01	7	8oz. jar (lot # 91011-18) A[C25]	28-Jun-13	8270D DOD Extended	-	-	30	1			1000		
A303741-01	8	4oz Jar (lot # 9513-30) A[C34]	10-Jul-13	8270D DOD Extended	-	-	30	1			1000		

PREPARATION BENCH SHEET

Printed: 7/8/2013 12:26:05AM

3G08001

ENCO Orlando

Prepared using: EPA 3550C_MS

Surrogate Solution
___ A3E0420 BNA Surrogate Working

Spiking Solution
A3F0184 BNA DOD additional SPIKE MIX
A3G0123 BNA Spike Mix Working

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303741-02	9	8oz Jar (lot # 9513-30) A[C34]	10-Jul-13	8270D DOD Extended	–	–	30	1			1000		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

8270 Soil

Start Date/Time 1:00 7-8-13

StopDate/Time 8:00 7-8-13

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3F0391	Solvent Dichloromethane	Solvent Lot # DI398

Equipment Used

Sonicator OSONI 3, 2 — Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA
Turbovap OTVAP 1 — Temperature: 40°C — N2 pressure (initial): 3 psi (final): 12 psi
Turbovap OTVAP 2 — Temperature: 40°C — N2 pressure (initial): 3 psi (final): 12 psi
Turbovap OTVAP 3 — Temperature: 40°C — N2 pressure (initial): 3 psi (final): 12 psi
Balance OEXTBAL 7 — Daily calibration complete? [X] Yes [ ] No [ ] NA
Other

Samples Prepared By Date

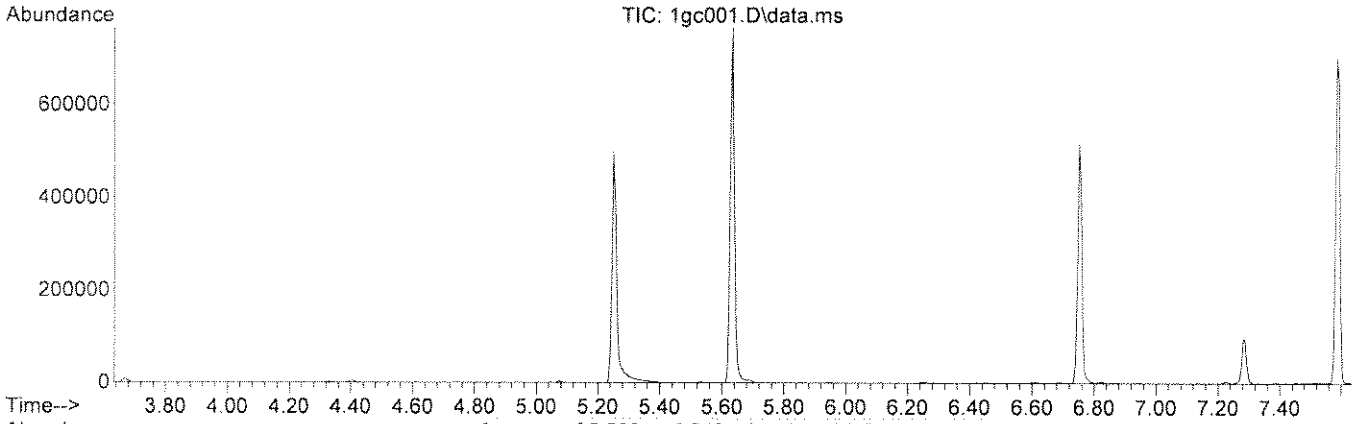
Samples Prepared By Date

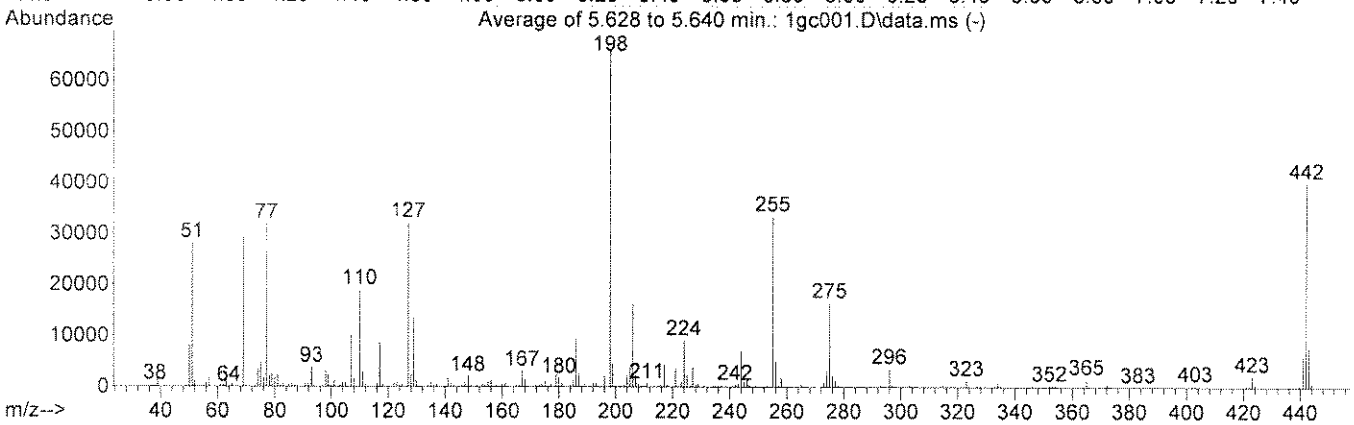
Samples Prepared By Date

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc001.D
Acq On : 8 Jul 2013 7:16
Operator : jfi
Sample : aa24841-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Sat Jul 06 10:29:36 2013





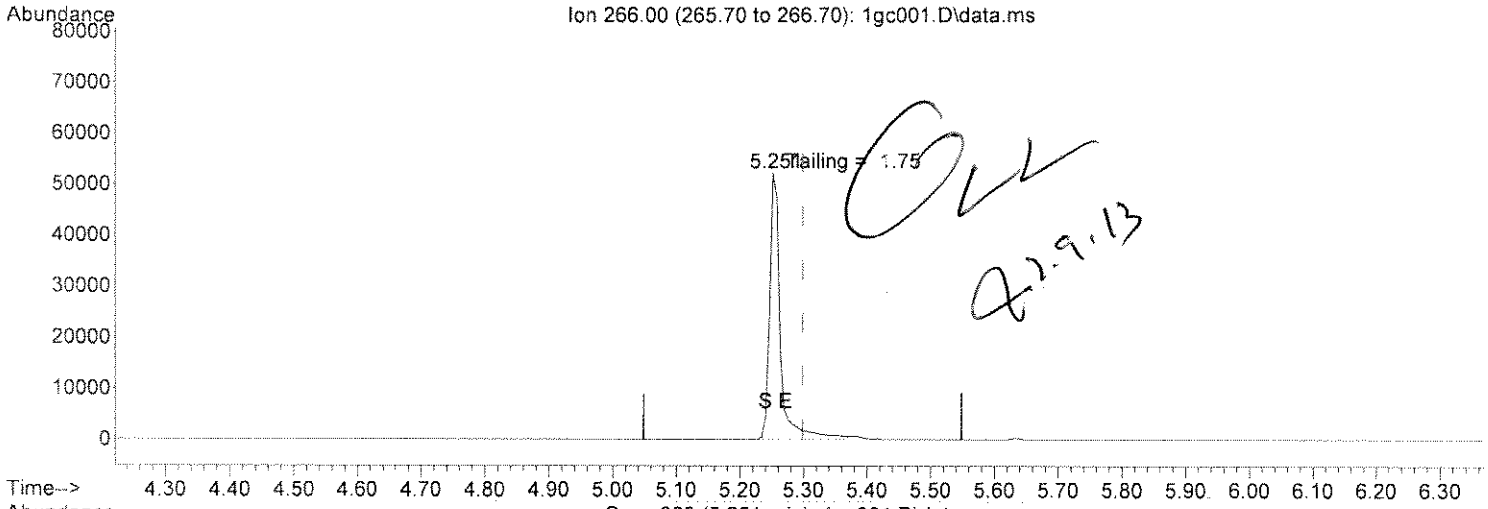
AutoFind: Scans 433, 434, 435; Background Corrected with Scan 428

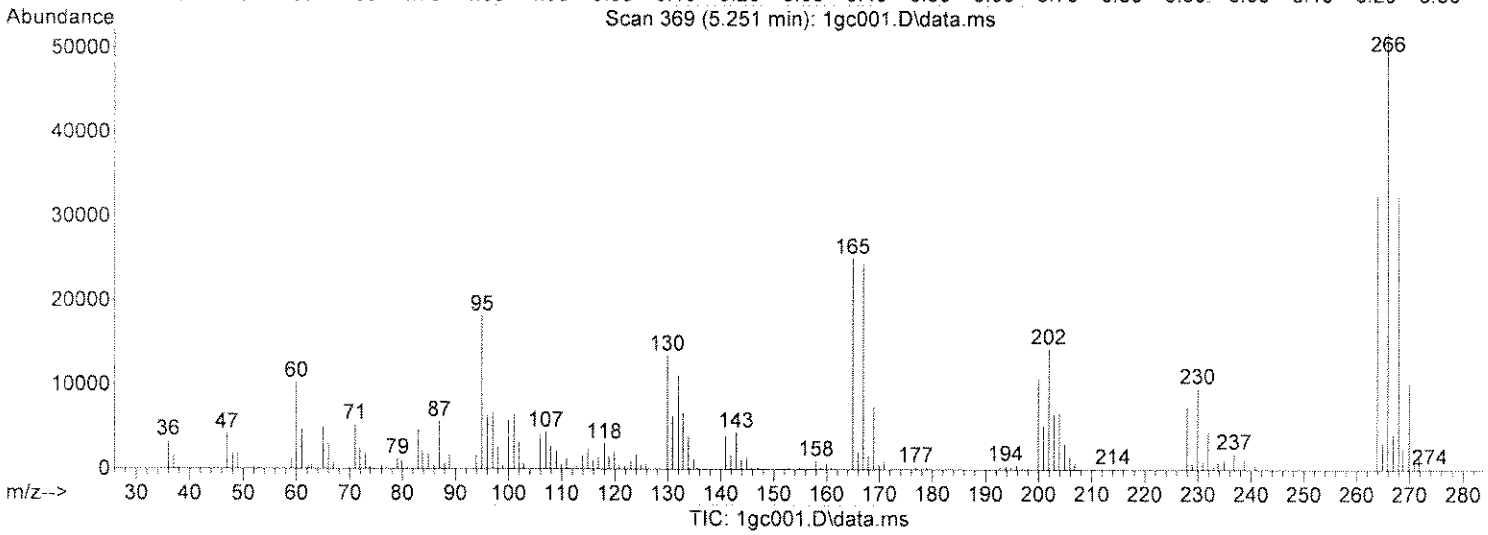
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.4	28146	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.1	29282	PASS
70	69	0.00	2	0.7	219	PASS
127	198	10	80	48.5	32181	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	66336	PASS
199	198	5	9	7.0	4651	PASS
275	198	10	60	24.9	16496	PASS
365	198	1	100	2.5	1682	PASS
441	442	0.01	24	15.1	6055	PASS
442	198	50	100	60.5	40157	PASS
443	442	15	24	19.6	7886	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc001.D
Acq On : 8 Jul 2013 7:16
Operator : jfi
Sample : aa24841-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 08:07:58 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration





(1) Pentachlorophenol

5.251min (-0.047) 86.78 ug/ml

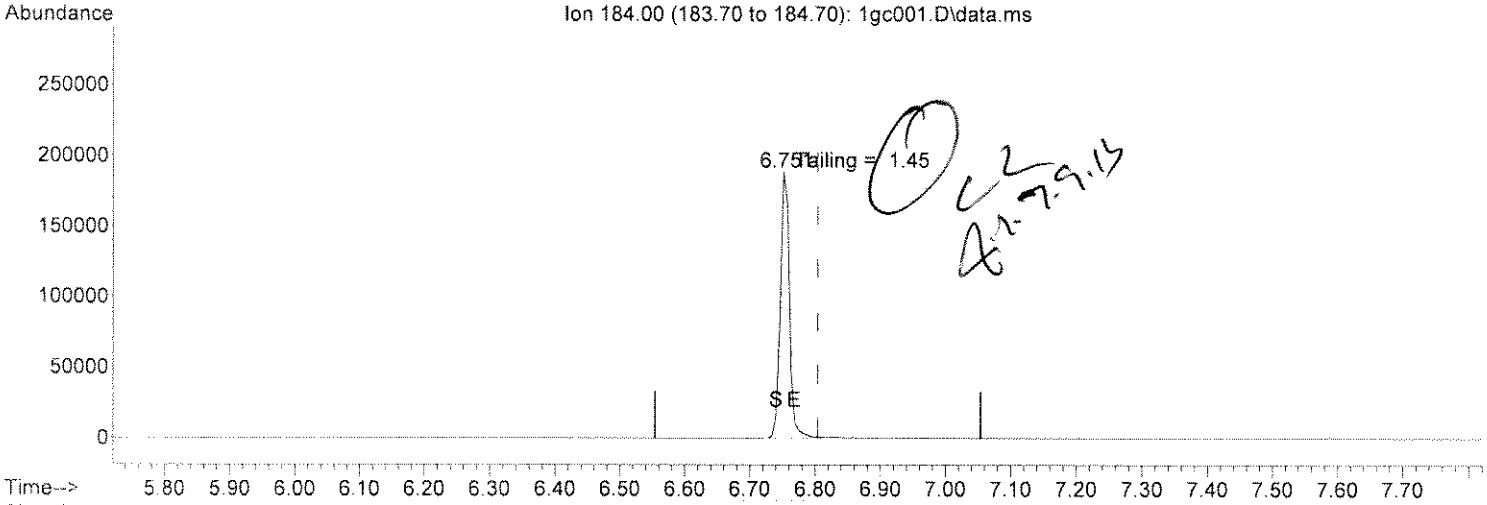
response 61608

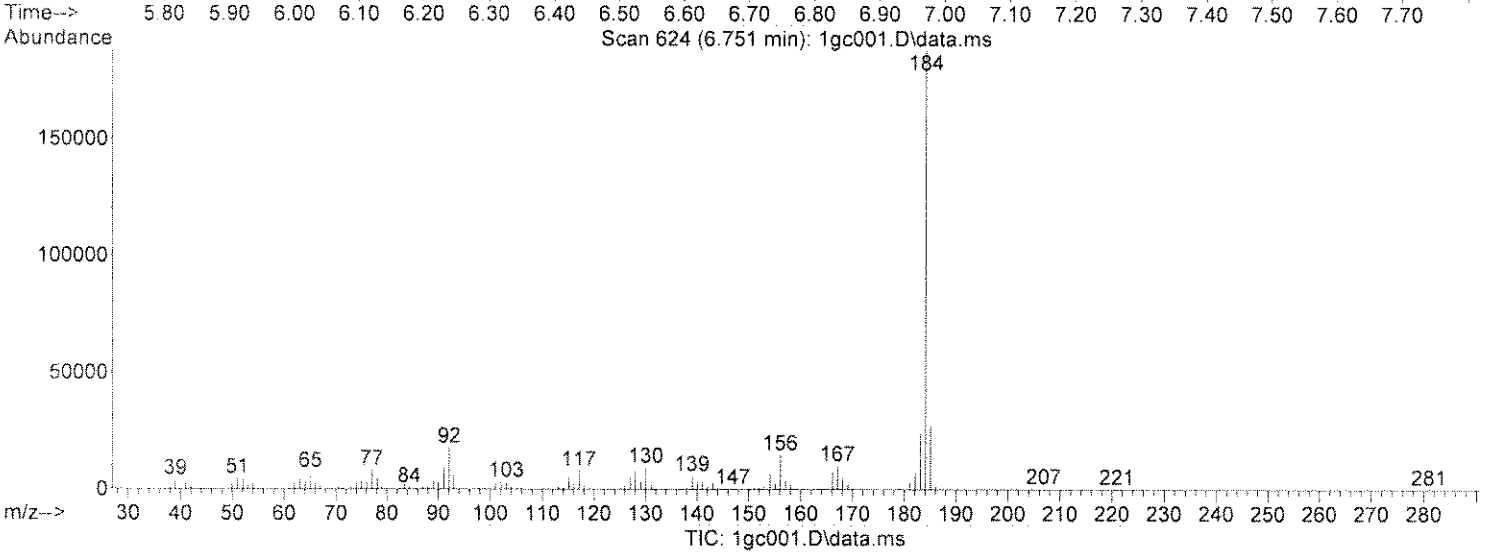
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc001.D
Acq On : 8 Jul 2013 7:16
Operator : jfi
Sample : aa24841-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 08:07:58 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration





(3) Benzidine

6.751min (-0.053) 71.01 ug/ml

response 183343

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc001.D
Acq On : 8 Jul 2013 7:16
Operator : jfi
Sample : aa24841-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 08:07:58 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Pentachlorophenol	5.251	266	61608	86.777 ug/ml	100
2) DFTPP	5.634	198	84794	87.093 ug/ml	100
3) Benzidine	6.751	184	183343	71.014 ug/ml	100
4) DDE	0.000		0	N.D.	
5) DDD	7.281	TIC	102041	48.724	98
6) DDT	7.587	TIC	657125	1269.807 ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

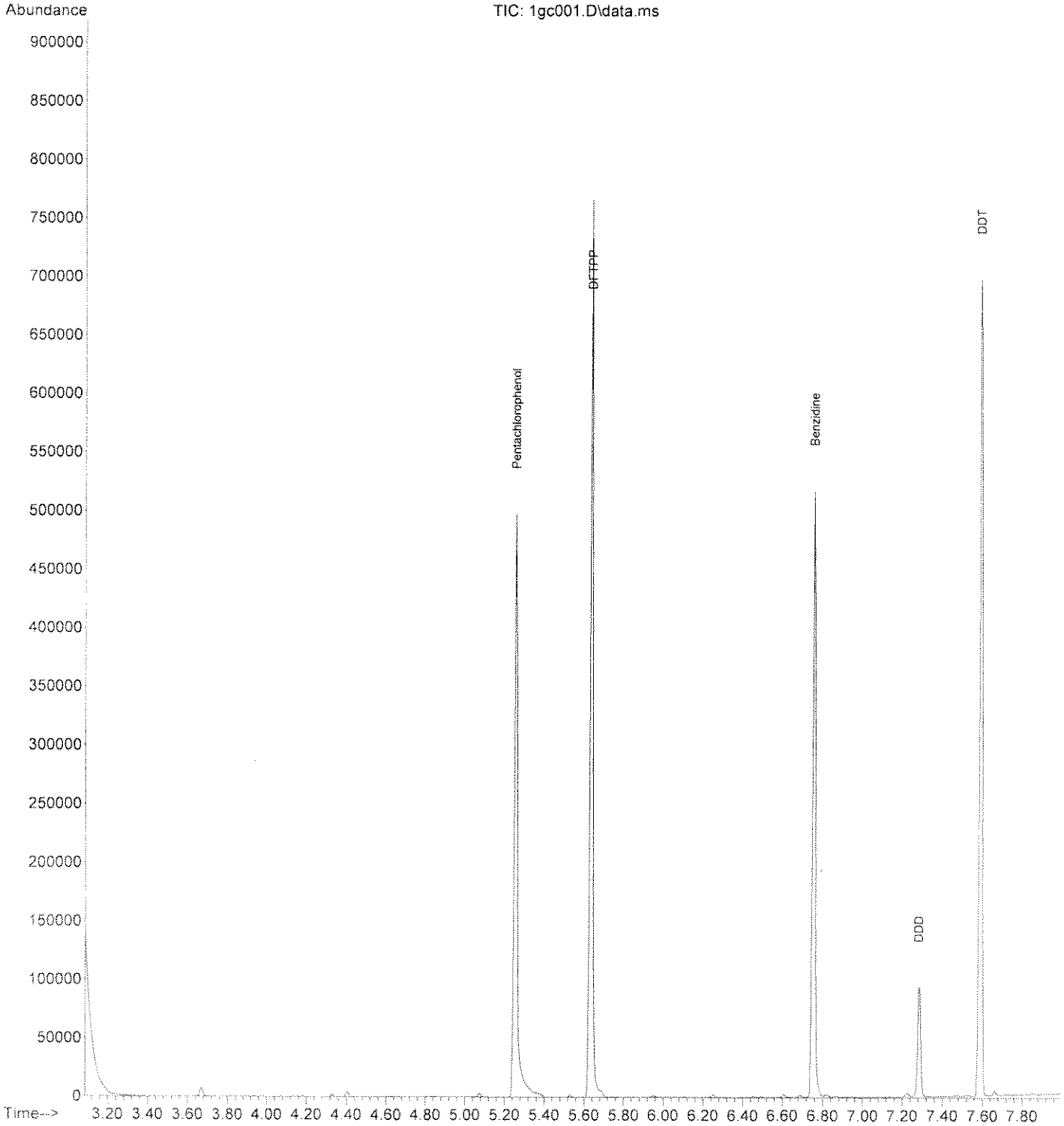
$\frac{102041}{102041 + 657125} \times 100 = 13.4\%$

(759166)

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc001.D
Acq On : 8 Jul 2013 7:16
Operator : jfi
Sample : aa24841-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 08:07:58 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jul 06 10:29:36 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc002.D
Acq On : 8 Jul 2013 7:29
Operator : jfi
Sample : aa24841-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:22:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.856	152	569125	40.00	ug/mL	-0.01
32) NAPHTHALENE-d8	8.425	136	2360547	40.00	ug/mL	-0.02
57) ACENAPHTHENE-d10	10.631	164	1261840	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1942029	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.074	240	903755	40.00	ug/mL	-0.02
137) PERYLENE-d12	19.014	264	656534	40.00	ug/mL	-0.03
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.287	112	1145910	51.08	ug/mL	0.00
Spiked Amount 100.000			Recovery = 51.08%			
11) Phenol -D5 (acid surr)	6.386	99	1426664	51.67	ug/mL	0.00
Spiked Amount 100.000			Recovery = 51.67%			
33) Nitrobenzene -D5 (b/n ...	7.536	82	1375164	49.79	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 49.79%			
61) 2-Fluorobiphenyl (b/n ...	9.756	172	2382926	50.60	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 50.60%			
91) 2,4,6-Tribromophenol (...	11.624	330	286636	52.98	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 52.98%			
120) Terphenyl -D14 (b/n surr)	14.480	244	1251625	42.01	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 42.01%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.637	74	761582	50.550	ug/mL	74
3) Pyridine	3.677	79	1163209	47.653	ug/mL	97
4) 2-Picoline	4.597	93	1198212	50.234	ug/mL	93
5) N-Nitrosomethylethylamine	4.727	88	541023	50.556	ug/mL#	54
6) Methyl methanesulfonate	5.087	80	729287	50.688	ug/mL	94
8) 2-Fluorophenol	5.287	112	1145910	51.077	ug/mL	93
9) N-Nitrosodiethylamine	5.567	102	572836	53.214	ug/mL#	72
10) Ethyl methanesulfonate	5.906	79	853083	50.792	ug/mL	96
12) Phenol -D5	6.386	99	1426664	51.670	ug/mL	87
13) Pentachloroethane	6.516	167	468739	51.848	ug/mL	99
14) aniline	6.456	93	1803118	49.614	ug/mL	93
15) Phenol	6.396	94	1327006	49.717	ug/mL	91
16) Bis(2-chloroethyl)ether	6.516	93	1063898	51.305	ug/mL	92
17) 2-Chlorophenol	6.606	128	1097325	50.885	ug/mL	97
18) 1,3-Dichlorobenzene	6.786	146	1275448	50.050	ug/mL	99
19) 1,4-Dichlorobenzene	6.876	146	1312416	50.737	ug/mL	100
20) Benzyl Alcohol	7.006	108	704054	50.044	ug/mL	94
21) 1,2-Dichlorobenzene	7.066	146	1218607	50.826	ug/mL	99
22) 2-Methylphenol	7.126	107	914766	50.301	ug/mL	95
23) Bis(2-chloroisopropyl)...	7.166	45	1333148	51.516	ug/mL	95
24) Acetophenone	7.346	105	1698744	52.430	ug/mL	90
25) 3 & 4-Methylphenol	7.326	108	2516820	111.583	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.346	70	864207	52.057	ug/mL	95
27) N-Nitrosopyrrolidine	7.326	100	596303	54.972	ug/mL	94
28) N-Nitrosomorpholine	7.366	56	780464	51.256	ug/mL	93
29) Hexachloroethane	7.486	117	511643	50.054	ug/mL	99
30) o-Toluidine	7.386	106	1756394	48.843	ug/mL	99
31) a,a-Dimethylphenethyla...	8.434	58	2285772	50.460	ug/mL	87
34) Nitrobenzene -D5	7.536	82	1375164	49.788	ug/mL	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc002.D
Acq On : 8 Jul 2013 7:29
Operator : jfi
Sample : aa24841-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:22:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.556	77	1201555	48.260	ug/mL	96
36) N-Nitrosopiperidine	7.736	114	543291	49.801	ug/mL#	68
37) Isophorone	7.846	82	2164915	53.030	ug/mL	100
38) 2-Nitrophenol	7.946	139	569785	50.618	ug/mL	93
39) 2,4-Dimethylphenol	7.976	122	1017387	50.181	ug/mL	97
40) Bis(2-chloroethoxy)met...	8.089	93	1172203	47.579	ug/mL	95
41) o,o,o-Triethyl Phospho...	8.052	198	664976	51.237	ug/mL	93
42) Benzoic Acid	8.155	105	1049483	72.505	ug/mL#	1
43) 2,4-Dichlorophenol	8.238	162	850107	50.053	ug/mL	99
44) 1,2,4-Trichlorobenzene	8.350	180	1061980	50.009	ug/mL	96
45) Naphthalene	8.453	128	3396844	50.367	ug/mL	99
46) 4-Chloroaniline	8.508	127	1267834	48.255	ug/mL	97
47) 2,6-Dichlorophenol	8.518	162	878212	50.559	ug/mL	99
48) Hexachloropropene	8.564	213	669295	45.647	ug/mL	100
49) Hexachlorobutadiene	8.601	223	413865	50.161	ug/mL	99
50) N-Nitrosodi-n-Butylamine	8.909	84	872018	52.993	ug/mL	91
51) p-Phenylenediamine	8.946	108	334794	35.179	ug/mL	92
52) 4-Chloro-3-methylphenol	9.086	107	971029	50.293	ug/mL	91
53) Safrole	9.188	162	782336	50.844	ug/mL	95
54) 2-Methylnaphthalene	9.318	142	2298629	51.270	ug/mL	96
55) 1-Methylnaphthalene	9.439	142	2600744	51.361	ug/mL	97
56) Hexachlorocyclopentadiene	9.523	237	472921	43.500	ug/mL	98
58) 1,2,4,5-Tetrachloroben...	9.533	216	1089607	51.216	ug/mL	98
59) 2,4,6-Trichlorophenol	9.663	196	626470	50.856	ug/mL	98
60) 2,4,5-Trichlorophenol	9.709	196	653034	48.874	ug/mL	99
62) 2-Fluorobiphenyl	9.756	172	2382926	50.605	ug/mL	100
63) Isosafrole	9.830	162	736633	48.319	ug/mL	98
64) 2-Chloronaphthalene	9.933	162	1923828	49.920	ug/mL	97
65) 2-Nitroaniline	10.035	65	635145	49.649	ug/mL	95
66) 1,4-Naphthoquinone	10.138	158	404538	40.862	ug/mL	96
67) Dimethyl phthalate	10.259	163	2264594	51.578	ug/mL	100
68) m-Dinitrobenzene	10.305	168	308048	47.154	ug/mL#	69
69) 2,6-Dinitrotoluene	10.333	165	474963	48.845	ug/mL	91
70) Acenaphthylene	10.454	152	3236760	50.522	ug/mL	99
71) 3-Nitroaniline	10.557	138	435473	45.963	ug/mL	98
72) Acenaphthene	10.678	154	2157864	51.428	ug/mL	99
73) 2,4-Dinitrophenol	10.687	184	298418	45.759	ug/mL#	61
74) Pentachlorobenzene	10.846	250	867709	52.515	ug/mL	100
75) 4-Nitrophenol	10.753	109	302816	49.101	ug/mL	93
76) Dibenzofuran	10.893	168	2553575	48.351	ug/mL	96
77) 2,4-Dinitrotoluene	10.846	165	654003	50.909	ug/mL	100
78) 2-Naphthylamine	10.977	143	1443960	47.326	ug/mL	98
79) 1-Naphthylamine	11.079	143	1658188	45.974	ug/mL	100
80) 2,3,4,6-Tetrachlorophenol	11.042	232	536458	51.435	ug/mL	98
81) Diethyl phthalate	11.135	149	2223309	51.117	ug/mL	99
82) 4-Chlorophenyl phenyl ...	11.294	204	1077944	50.085	ug/mL	98
83) Fluorene	11.322	166	2171544	48.030	ug/mL	99
84) Thionazin	11.238	107	420680	52.929	ug/mL	97
85) 5-Nitro-o-toluidine	11.322	152	561568m	47.663	ug/mL	
86) 4-Nitroaniline	11.342	138	440717	46.379	ug/mL	95
87) 2-Methyl-4,6-dinitroph...	11.373	198	345965	46.876	ug/mL	97
88) Diphenylamine/N-Nitros...	11.453	169	3568650	100.152	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc002.D
Acq On : 8 Jul 2013 7:29
Operator : jfi
Sample : aa24841-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:22:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.453	169	3568650	50.076 ug/mL	98
90)	DPH (as Azobenzene)	11.503	182	561517	48.801 ug/mL	92
92)	2,4,6-Tribromophenol	11.624	330	286636	52.983 ug/mL	97
94)	Sulfotepp	11.614	97	451740	56.344 ug/mL	89
95)	Diallate	11.794	86	803903	55.273 ug/mL#	79
96)	Phorate	11.805	75	1280940	54.591 ug/mL	99
97)	4-Bromophenylphenyl ether	11.915	248	593516	48.078 ug/mL	95
98)	Phenacetin	11.825	108	897532	50.668 ug/mL	100
99)	1,3,5-Trinitrobenzene	11.764	213	196761	51.164 ug/mL	92
100)	Hexachlorobenzene	12.036	284	707593	58.694 ug/mL	97
101)	Dimethoate	12.036	87	781115	59.214 ug/mL	92
102)	4-Aminobiphenyl	12.252	169	1995372	49.503 ug/mL	100
103)	Pentachlorophenol	12.263	266	387813	53.882 ug/mL	98
104)	Pronamide	12.298	173	586697	53.496 ug/mL	97
105)	Pentachloronitrobenzene	12.287	237	273256	54.168 ug/mL	92
106)	Phenanthrene	12.540	178	2844069	50.998 ug/mL	99
107)	Disulfoton	12.460	88	1177562	56.227 ug/mL	94
108)	Anthracene	12.598	178	2820871	49.510 ug/mL	99
109)	Dinoseb	12.471	211	587070	53.990 ug/mL	100
110)	Carbazole	12.783	167	2087752	45.705 ug/mL	99
111)	Methyl Parathion	12.933	109	614932	49.981 ug/mL	85
112)	Di-n-butyl phthalate	13.175	149	3161903	51.356 ug/mL	99
113)	Parathion	13.418	109	421890	56.043 ug/mL#	84
114)	4-Nitroquinoline-1-oxide	13.499	190	142241	43.990 ug/mL	92
115)	Methapyrilene	13.556	97	545725	54.500 ug/mL	98
116)	Isodrin	13.847	193	225438	46.087 ug/mL	92
117)	Fluoranthene	14.038	202	1701961	42.181 ug/mL	94
118)	Benzidine	13.847	184	16874	50.915 ug/mL#	81
119)	Pyrene	14.329	202	1725411	40.993 ug/mL	93
121)	Terphenyl -D14	14.480	244	1251625	42.009 ug/mL	99
122)	Aramite	14.419	185	32106	44.438 ug/mL	90
123)	Benzylbutyl phthalate	15.092	149	789204	46.325 ug/mL	87
125)	p-(dimethylamino)azobe...	14.650	225	305135	50.691 ug/mL#	100
126)	Chlorobenzilate	14.701	251	464483	56.651 ug/mL#	77
127)	Famphur	15.754	218	36093	No Calib	
128)	3,3'-Dimethylbenzidine	15.102	212	491575	41.041 ug/mL	94
129)	Kepone	19.743	272	366	No Calib #	
130)	2-Acetylaminofluorene	15.490	181	523355	57.422 ug/mL	94
131)	3,3'-Dichlorobenzidine	15.975	252	412542	51.373 ug/mL	98
132)	Benzo(a)anthracene	16.052	228	1197483	46.779 ug/mL	99
133)	Bis(2-ethylhexyl)phtha...	15.986	149	1084204	62.696 ug/mL	98
134)	Chrysene	16.118	228	1081816	46.715 ug/mL	99
135)	Di-n-octyl phthalate	17.254	149	1481856	55.841 ug/mL	100
136)	Hexachlorophene	19.006	196	777	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.226	256	518046	47.318 ug/mL	99
139)	Benzo(b)fluoranthene	18.252	252	1139143	48.703 ug/mL	96
140)	Benzo(k)fluoranthene	18.302	252	876582	44.695 ug/mL	97
141)	Benzo(a)pyrene	18.904	252	913057	48.161 ug/mL	96
142)	3-Methylcholanthrene	19.523	268	500522	51.619 ug/mL	100
143)	Indeno(1,2,3-cd)pyrene	20.777	276	1086521	62.390 ug/mL	87
144)	Dibenzo(a,h)anthracene	20.786	278	970861	64.549 ug/mL	90
145)	Benzo(g,h,i)perylene	21.224	276	792696	60.974 ug/mL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc002.D
Acq On : 8 Jul 2013 7:29
Operator : jfi
Sample : aa24841-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:22:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

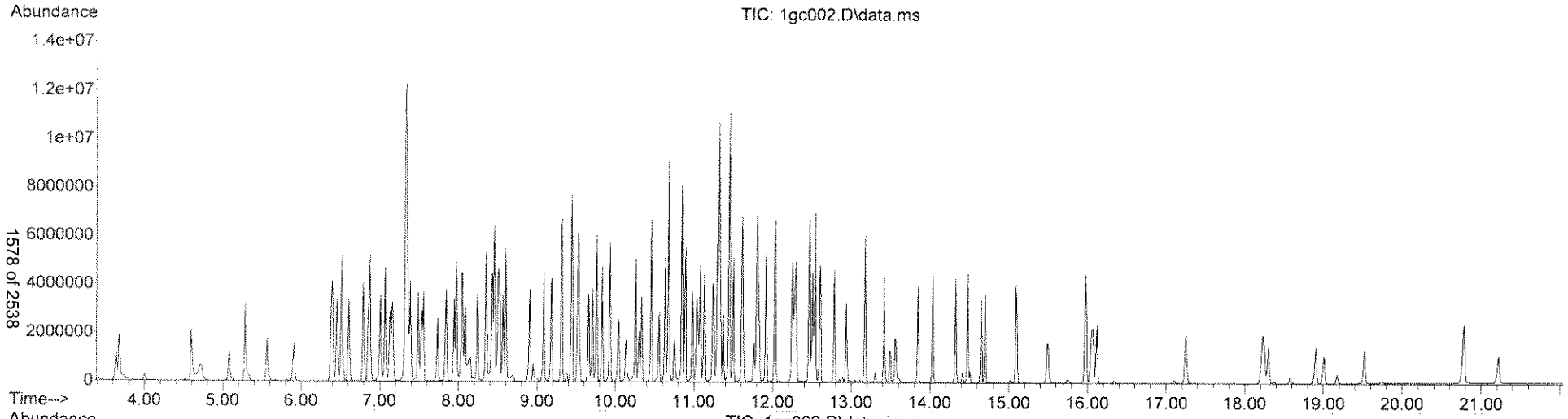
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

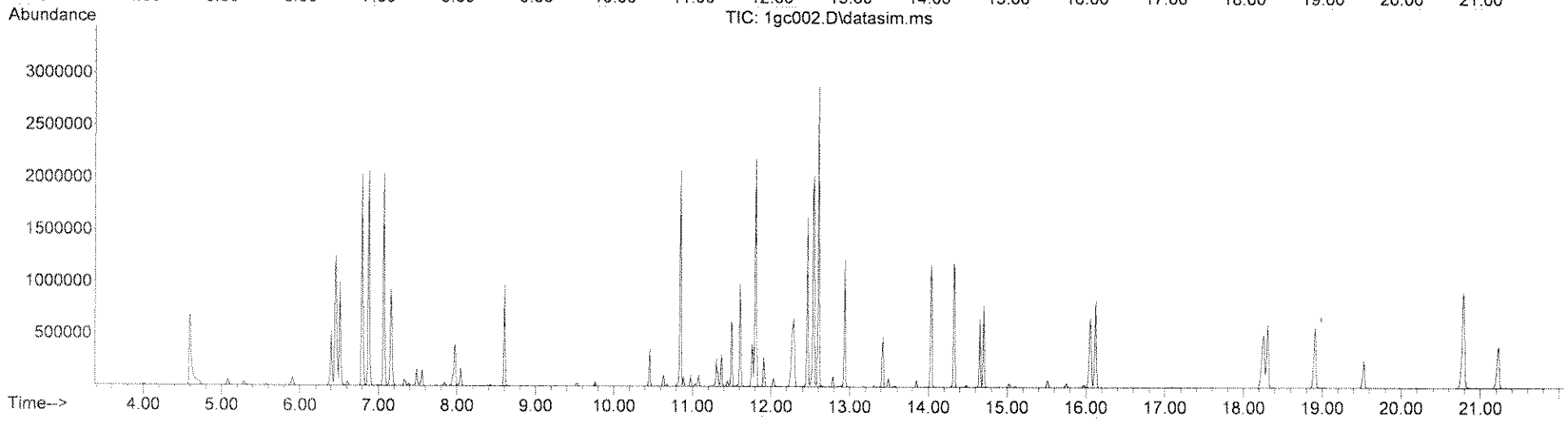
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc002.D
Acq On : 8 Jul 2013 7:29
Operator : jfi
Sample : aa24841-ccv1
Misc : a3g0032
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:22:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc003.D
Acq On : 8 Jul 2013 7:58
Operator : jfi
Sample : aa24841-ccv2
Misc : a3g0006 tcl
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 10:22:54 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

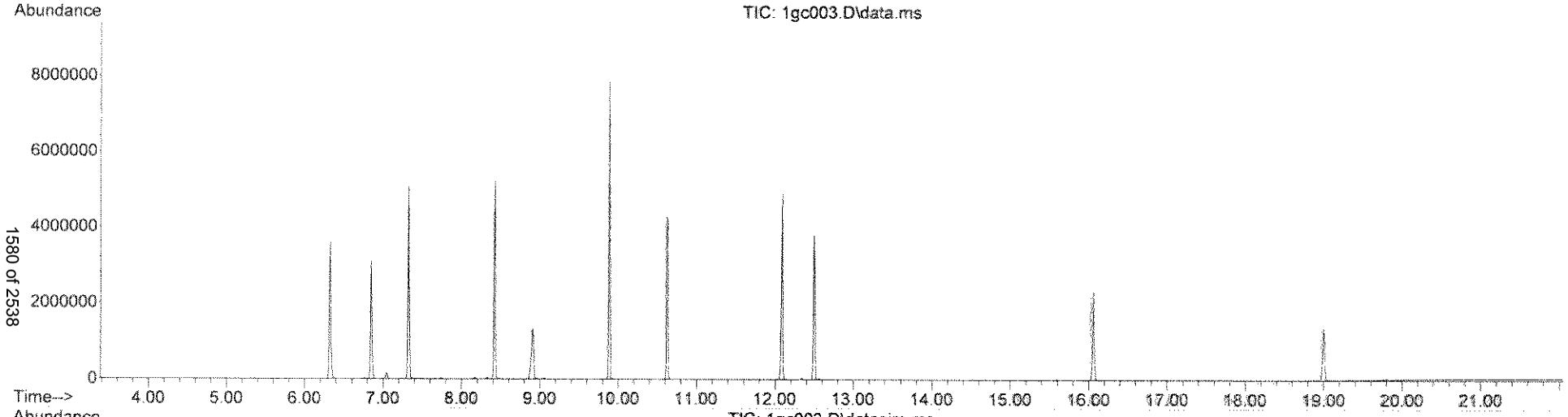
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	591262	40.00	ug/mL	-0.04
3) NAPHTHALENE-d8	8.425	136	2523875	40.00	ug/mL	-0.04
5) ACENAPHTHENE-d10	10.631	164	1113479	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.494	188	1722253	40.00	ug/mL	-0.05
9) CHRYSENE-d12	16.063	240	1047181	40.00	ug/mL	-0.07
10) PERYLENE-d12	19.006	264	810835	40.00	ug/mL	-0.07
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	869558	52.016	ug/mL	96
4) Caprolactam	8.909	113	254037	46.702	ug/mL	93
6) 1,1'-Biphenyl	9.886	154	2145428	48.470	ug/mL	98
7) Atrazine	12.090	200	530641	55.885	ug/mL	95

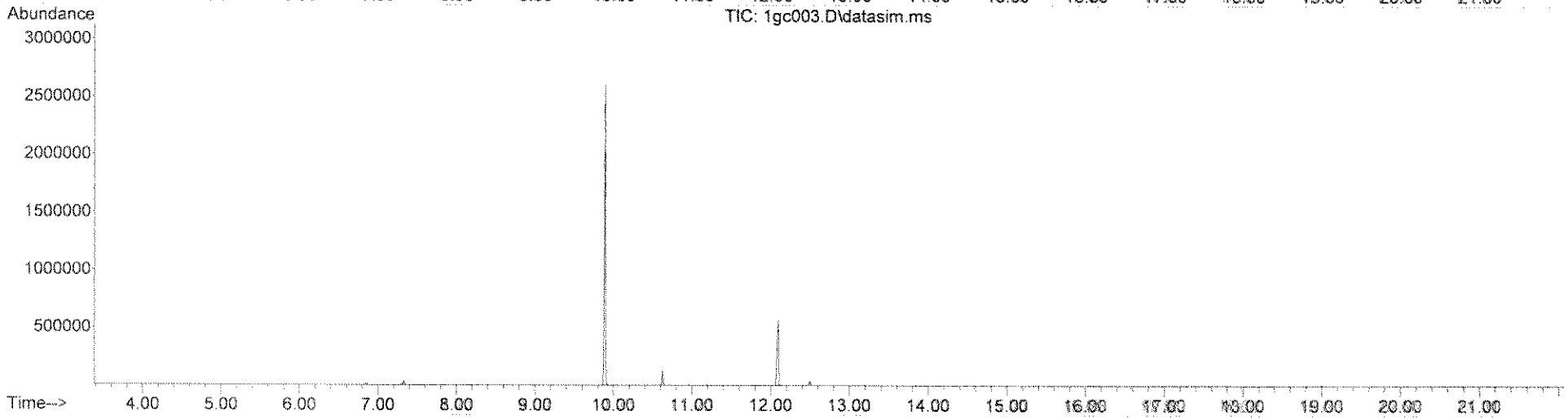
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc003.D
Acq On : 8 Jul 2013 7:58
Operator : jfi
Sample : aa24841-ccv2
Misc : a3g0006 tcl
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 10:22:54 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc004.D
Acq On : 8 Jul 2013 8:26
Operator : jfi
Sample : aa24841-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 10:23:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	719643	40.00	ug/mL	-0.02
32) NAPHTHALENE-d8	8.425	136	3022495	40.00	ug/mL	-0.02
57) ACENAPHTHENE-d10	10.631	164	1286829	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.506	188	1874629	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.063	240	1053971	40.00	ug/mL	-0.03
137) PERYLENE-d12	19.006	264	785919	40.00	ug/mL	-0.03
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	269627	9.50	ug/mL	-0.01
Spiked Amount 100.000			Recovery	=	9.50%	
11) Phenol -D5 (acid surr)	6.366	99	330373	9.46	ug/mL	-0.02
Spiked Amount 100.000			Recovery	=	9.46%	
33) Nitrobenzene -D5 (b/n ...	7.516	82	343504	9.71	ug/mL	-0.03
Spiked Amount 100.000			Recovery	=	9.71%	
61) 2-Fluorobiphenyl (b/n ...	9.756	172	366733	7.64	ug/mL	-0.02
Spiked Amount 100.000			Recovery	=	7.64%	
91) 2,4,6-Tribromophenol (...	11.614	330	41387	7.50	ug/mL	-0.02
Spiked Amount 100.000			Recovery	=	7.50%	
120) Terphenyl -D14 (b/n surr)	14.469	244	233287	8.11	ug/mL	-0.03
Spiked Amount 100.000			Recovery	=	8.11%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.617	74	199401	10.467	ug/mL	86
3) Pyridine	3.667	79	302574	9.803	ug/mL	98
4) 2-Picoline	4.587	93	292194	9.688	ug/mL	96
5) N-Nitrosomethylethylamine	4.717	88	137288	10.146	ug/mL#	63
6) Methyl methanesulfonate	5.067	80	183417	10.082	ug/mL	95
8) 2-Fluorophenol	5.277	112	269627	9.504	ug/mL	98
9) N-Nitrosodiethylamine	5.557	102	131489	9.660	ug/mL#	81
10) Ethyl methanesulfonate	5.886	79	211845	9.975	ug/mL	100
12) Phenol -D5	6.366	99	330373	9.463	ug/mL	90
13) Pentachloroethane	6.506	167	110118	9.633	ug/mL	98
14) aniline	6.446	93	430403	9.366	ug/mL	95
15) Phenol	6.376	94	319470	9.466	ug/mL	94
16) Bis(2-chloroethyl)ether	6.496	93	252130	9.616	ug/mL	93
17) 2-Chlorophenol	6.596	128	257689	9.450	ug/mL	100
18) 1,3-Dichlorobenzene	6.786	146	297646	9.237	ug/mL	98
19) 1,4-Dichlorobenzene	6.866	146	303586	9.282	ug/mL	96
20) Benzyl Alcohol	6.996	108	165422	9.299	ug/mL	95
21) 1,2-Dichlorobenzene	7.056	146	286602	9.453	ug/mL	98
22) 2-Methylphenol	7.116	107	221498	9.632	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.156	45	335020	10.238	ug/mL	99
24) Acetophenone	7.326	105	389852	9.516	ug/mL	99
25) 3 & 4-Methylphenol	7.306	108	513332	17.998	ug/mL	100
26) N-Nitrosodi-n-propylamine	7.316	70	216923	10.334	ug/mL	97
27) N-Nitrosopyrrolidine	7.286	100	125683	9.163	ug/mL	99
28) N-Nitrosomorpholine	7.336	56	207034	10.753	ug/mL	99
29) Hexachloroethane	7.486	117	125586	9.716	ug/mL	96
30) o-Toluidine	7.376	106	424117	9.327	ug/mL	100
31) a,a-Dimethylphenethyla...	8.350	58	504668	8.811	ug/mL	98
34) Nitrobenzene -D5	7.516	82	343504	9.713	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc004.D
Acq On : 8 Jul 2013 8:26
Operator : jfi
Sample : aa24841-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 10:23:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.536	77	305951	9.597	ug/mL	98
36) N-Nitrosopiperidine	7.716	114	131208	9.393	ug/mL#	75
37) Isophorone	7.826	82	520903	9.965	ug/mL	98
38) 2-Nitrophenol	7.936	139	127579	8.852	ug/mL	95
39) 2,4-Dimethylphenol	7.956	122	237720	9.157	ug/mL	97
40) Bis(2-chloroethoxy)met...	8.071	93	294113	9.323	ug/mL	97
41) o,o,o-Triethyl Phospho...	8.034	198	146247	8.801	ug/mL	85
42) Benzoic Acid	8.089	105	462320	24.945	ug/mL#	37
43) 2,4-Dichlorophenol	8.229	162	190584	8.764	ug/mL	97
44) 1,2,4-Trichlorobenzene	8.341	180	235523	8.662	ug/mL	97
45) Naphthalene	8.443	128	735113	8.513	ug/mL	99
46) 4-Chloroaniline	8.490	127	286620	8.520	ug/mL	98
47) 2,6-Dichlorophenol	8.508	162	194748	8.756	ug/mL	100
48) Hexachloropropene	8.564	213	143323	7.634	ug/mL	99
49) Hexachlorobutadiene	8.601	223	90468	8.564	ug/mL	99
50) N-Nitrosodi-n-Butylamine	8.890	84	207171	9.833	ug/mL	96
51) p-Phenylenediamine	8.927	108	90312	7.411	ug/mL	88
52) 4-Chloro-3-methylphenol	9.076	107	190428	7.703	ug/mL	89
53) Safrole	9.179	162	124763	6.333	ug/mL#	71
54) 2-Methylnaphthalene	9.309	142	366012	6.376	ug/mL	93
55) 1-Methylnaphthalene	9.430	142	414393	6.391	ug/mL	94
56) Hexachlorocyclopentadiene	9.514	237	65537	4.708	ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.523	216	161160	7.428	ug/mL	98
59) 2,4,6-Trichlorophenol	9.654	196	94149	7.494	ug/mL	93
60) 2,4,5-Trichlorophenol	9.700	196	99612	7.310	ug/mL	99
62) 2-Fluorobiphenyl	9.756	172	366733	7.637	ug/mL	99
63) Isosafrole	9.821	162	118403	7.616	ug/mL	90
64) 2-Chloronaphthalene	9.924	162	298830	7.604	ug/mL	95
65) 2-Nitroaniline	10.026	65	146361	11.219	ug/mL	82
66) 1,4-Naphthoquinone	10.128	158	89146	8.830	ug/mL#	74
67) Dimethyl phthalate	10.240	163	371876	8.305	ug/mL	99
68) m-Dinitrobenzene	10.287	168	46252	6.942	ug/mL#	44
69) 2,6-Dinitrotoluene	10.324	165	76912	7.756	ug/mL	72
70) Acenaphthylene	10.445	152	506717	7.756	ug/mL	99
71) 3-Nitroaniline	10.538	138	68212	7.060	ug/mL	80
72) Acenaphthene	10.669	154	343800	8.035	ug/mL	99
73) 2,4-Dinitrophenol	10.669	184	35184	9.039	ug/mL#	1
74) Pentachlorobenzene	10.837	250	121413	7.205	ug/mL	99
75) 4-Nitrophenol	10.725	109	65084	10.348	ug/mL	87
76) Dibenzofuran	10.883	168	386946	7.184	ug/mL	87
77) 2,4-Dinitrotoluene	10.827	165	97763	7.462	ug/mL#	59
78) 2-Naphthylamine	10.967	143	219478	7.054	ug/mL	89
79) 1-Naphthylamine	11.070	143	230516	6.267	ug/mL	83
80) 2,3,4,6-Tetrachlorophenol	11.032	232	72757	6.840	ug/mL	88
81) Diethyl phthalate	11.116	149	395280	8.912	ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.294	204	164901	7.513	ug/mL	86
83) Fluorene	11.312	166	354947	7.698	ug/mL	99
84) Thionazin	11.228	107	80488	9.930	ug/mL	92
85) 5-Nitro-o-toluidine	11.228	152	458	N.D.		
86) 4-Nitroaniline	11.443	138	393	N.D.		
87) 2-Methyl-4,6-dinitroph...	11.352	198	49378	6.560	ug/mL	73
88) Diphenylamine/N-Nitros...	11.433	169	510565	14.050	ug/mL	97

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc004.D
Acq On : 8 Jul 2013 8:26
Operator : jfi
Sample : aa24841-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 10:23:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.433	169	510565	7.025 ug/mL	97
90)	DPH (as Azobenzene)	11.493	182	84548	7.205 ug/mL	78
92)	2,4,6-Tribromophenol	11.614	330	41387	7.502 ug/mL	98
94)	Sulfotepp	11.604	97	102431	13.235 ug/mL#	62
95)	Diallate	11.784	86	160445	11.428 ug/mL	84
96)	Phorate	11.794	75	286630	12.655 ug/mL	93
97)	4-Bromophenylphenyl ether	11.905	248	88666	7.441 ug/mL#	77
98)	Phenacetin	11.794	108	189557	11.086 ug/mL	83
99)	1,3,5-Trinitrobenzene	11.734	213	28760	7.747 ug/mL#	2
100)	Hexachlorobenzene	12.015	284	97938	8.416 ug/mL	83
101)	Dimethoate	12.015	87	170079	13.357 ug/mL	95
102)	4-Aminobiphenyl	12.229	169	278546	7.159 ug/mL	88
103)	Pentachlorophenol	12.252	266	50512	7.270 ug/mL	98
104)	Pronamide	12.286	173	108698	10.268 ug/mL	94
105)	Pentachloronitrobenzene	12.275	237	52004	10.680 ug/mL	91
106)	Phenanthrene	12.529	178	448743	8.336 ug/mL	98
107)	Disulfoton	12.448	88	220504	10.907 ug/mL	97
108)	Anthracene	12.587	178	425336	7.734 ug/mL	99
109)	Dinoseb	12.460	211	81469	7.762 ug/mL	90
110)	Carbazole	12.771	167	334120	7.578 ug/mL	97
111)	Methyl Parathion	12.921	109	138196	11.636 ug/mL#	86
112)	Di-n-butyl phthalate	13.164	149	606317	10.202 ug/mL	95
113)	Parathion	13.406	109	91278	12.561 ug/mL#	84
114)	4-Nitroquinoline-1-oxide	13.476	190	24949	7.993 ug/mL	76
115)	Methapyrilene	13.556	97	192634	19.930 ug/mL	97
116)	Isodrin	13.847	193	46008	9.744 ug/mL	93
117)	Fluoranthene	14.027	202	321894	8.265 ug/mL	95
118)	Benzidine	13.847	184	3526	11.022 ug/mL#	82
119)	Pyrene	14.319	202	333129	8.199 ug/mL	94
121)	Terphenyl -D14	14.469	244	233287	8.111 ug/mL	99
122)	Aramite	14.409	185	7716	11.064 ug/mL	93
123)	Benzylbutyl phthalate	15.092	149	171695	10.441 ug/mL	79
125)	p-(dimethylamino)azobe...	14.650	225	65847	9.380 ug/mL#	100
126)	Chlorobenzilate	14.691	251	97231	10.169 ug/mL#	67
127)	Famphur	15.743	218	6722	No Calib #	
128)	3,3'-Dimethylbenzidine	15.092	212	135801	9.722 ug/mL	94
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.479	181	109623	10.314 ug/mL	95
131)	3,3'-Dichlorobenzidine	15.964	252	87725	9.367 ug/mL	97
132)	Benzo(a)anthracene	16.041	228	269013	9.011 ug/mL	99
133)	Bis(2-ethylhexyl)phtha...	15.975	149	224477	11.131 ug/mL	97
134)	Chrysene	16.107	228	234221	8.673 ug/mL	98
135)	Di-n-octyl phthalate	17.243	149	325856	10.529 ug/mL	100
136)	Hexachlorophene	18.997	196	914	No Calib	
138)	7,12-Dimethylbenz(a)an...	18.201	256	109129	8.327 ug/mL	98
139)	Benzo(b)fluoranthene	18.226	252	235615m	8.415 ug/mL	
140)	Benzo(k)fluoranthene	18.277	252	195309	8.319 ug/mL	96
141)	Benzo(a)pyrene	18.887	252	198700	8.755 ug/mL	96
142)	3-Methylcholanthrene	19.506	268	111748	9.627 ug/mL	98
143)	Indeno(1,2,3-cd)pyrene	20.749	276	230199	11.042 ug/mL	90
144)	Dibenzo(a,h)anthracene	20.767	278	192390	10.685 ug/mL	92
145)	Benzo(g,h,i)perylene	21.196	276	174265	11.198 ug/mL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc004.D
Acq On : 8 Jul 2013 8:26
Operator : jfi
Sample : aa24841-crl1
Misc : a3g0061
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 10:23:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc004.D
Acq On : 8 Jul 2013 8:26
Operator : jfi
Sample : aa24841-crl1
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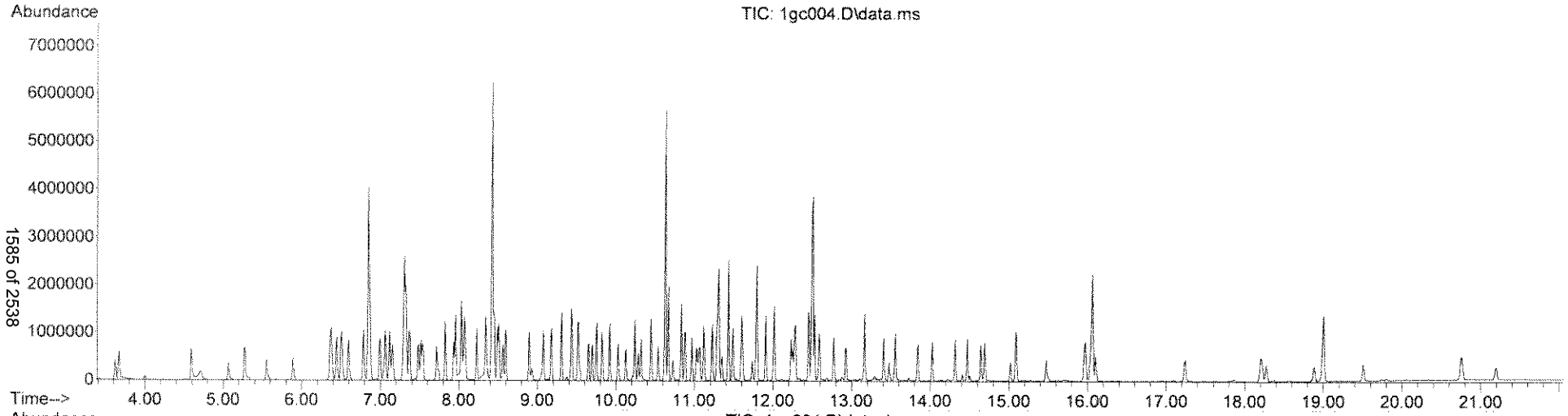
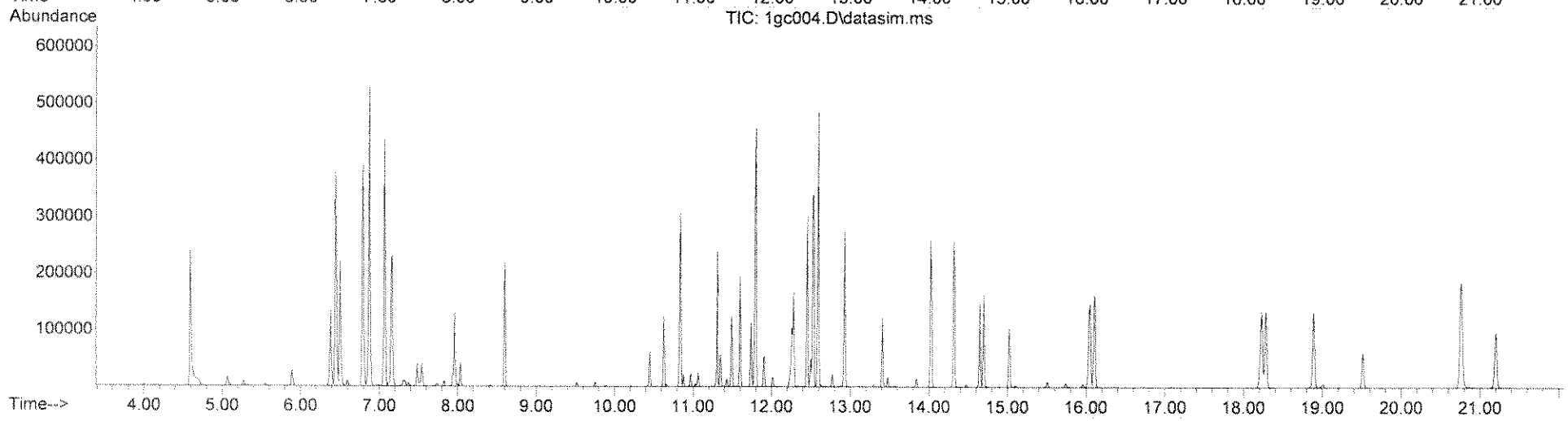
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 10:23:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.846	152	458108	40.00 ug/mL	-0.02
32) NAPHTHALENE-d8	8.415	136	1890508	40.00 ug/mL	-0.03
57) ACENAPHTHENE-d10	10.622	164	780879	40.00 ug/mL	-0.03
93) PHENANTHRENE-d10	12.494	188	1112885	40.00 ug/mL	-0.02
124) CHRYSENE-d12	16.052	240	637910	40.00 ug/mL	-0.04
137) PERYLENE-d12	18.998	264	493160	40.00 ug/mL	-0.04
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.277	112	510393	28.26 ug/mL	0.00
Spiked Amount 100.000			Recovery = 28.26%		
11) Phenol -D5 (acid surr)	6.366	99	688303	30.97 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 30.97%		
33) Nitrobenzene -D5 (b/n ...	7.516	82	620106	28.03 ug/mL	-0.03
Spiked Amount 100.000			Recovery = 28.03%		
61) 2-Fluorobiphenyl (b/n ...	9.756	172	839048	28.79 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 28.79%		
91) 2,4,6-Tribromophenol (...	11.614	330	92380	27.59 ug/mL	-0.02
Spiked Amount 100.000			Recovery = 27.59%		
120) Terphenyl -D14 (b/n surr)	14.470	244	876154	51.32 ug/mL	-0.03
Spiked Amount 100.000			Recovery = 51.32%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.608	74	495	N.D.	
3) Pyridine	3.708	79	518	N.D.	
4) 2-Picoline	4.527	93	83	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	5.147	80	2868	N.D.	
8) 2-Fluorophenol	5.277	112	510393	28.263 ug/mL	97
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.947	79	89	N.D.	
12) Phenol -D5	6.366	99	688303	30.970 ug/mL	90
13) Pentachloroethane	6.516	167	2376	N.D.	
14) aniline	6.516	93	172	N.D.	
15) Phenol	0.000		0	N.D.	
16) Bis(2-chloroethyl)ether	6.516	93	172	N.D.	
17) 2-Chlorophenol	6.596	128	297	N.D.	
18) 1,3-Dichlorobenzene	6.786	146	80	N.D.	
19) 1,4-Dichlorobenzene	6.866	146	88	N.D.	
20) Benzyl Alcohol	6.996	108	179	N.D.	
21) 1,2-Dichlorobenzene	7.066	146	115	N.D.	
22) 2-Methylphenol	7.036	107	88	N.D.	
23) Bis(2-chloroisopropyl)...	6.996	45	275	N.D.	
24) Acetophenone	0.000		0	N.D.	
25) 3 & 4-Methylphenol	7.426	108	91	N.D.	
26) N-Nitrosodi-n-propylamine	7.326	70	238	N.D.	
27) N-Nitrosopyrrolidine	7.416	100	87	N.D.	
28) N-Nitrosomorpholine	7.346	56	113	N.D.	
29) Hexachloroethane	7.436	117	167	N.D.	
30) o-Toluidine	0.000		0	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.516	82	620106	28.033 ug/mL	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 10:23:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.516	77	2718	N.D.	
36) N-Nitrosopiperidine	7.796	114	309	N.D.	
37) Isophorone	7.796	82	988	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.996	122	75	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.341	180	253	N.D.	
45) Naphthalene	8.443	128	232	N.D.	
46) 4-Chloroaniline	0.000		0	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.723	84	103	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	9.216	107	77	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	0.000		0	N.D.	
55) 1-Methylnaphthalene	0.000		0	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.756	172	839048	28.793 ug/mL	100
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	0.000		0	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	0.000		0	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	10.445	152	74	N.D.	
71) 3-Nitroaniline	10.622	138	152	N.D.	
72) Acenaphthene	10.622	154	3370	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.622	109	2366	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	10.697	165	79	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.107	149	253	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	0.000		0	N.D.	
84) Thionazin	0.000		0	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 10:23:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	0.000		0	N.D.	
92)	2,4,6-Tribromophenol	11.614	330	92380	27.593 ug/mL	98
94)	Sulfotepp	0.000		0	N.D.	
95)	Diallate	0.000		0	N.D.	
96)	Phorate	0.000		0	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	0.000		0	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.494	178	355	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.494	178	355	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	0.000		0	N.D.	
111)	Methyl Parathion	0.000		0	N.D.	
112)	Di-n-butyl phthalate	13.164	149	1162	N.D.	
113)	Parathion	0.000		0	N.D.	
114)	4-Nitroquinoline-1-oxide	13.499	190	98	N.D.	
115)	Methapyrilene	13.557	97	202	N.D.	
116)	Isodrin	13.927	193	81	N.D.	
117)	Fluoranthene	0.000		0	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.470	202	3915	N.D.	
121)	Terphenyl -D14	14.470	244	876154	51.316 ug/mL	99
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	0.000		0	N.D.	
125)	p-(dimethylamino)azobe...	0.000		0	N.D. d	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.468	181	131	N.D.	
131)	3,3'-Dichlorobenzidine	0.000		0	N.D.	
132)	Benzo(a)anthracene	16.096	228	382	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.975	149	1165	N.D.	
134)	Chrysene	16.096	228	382	N.D.	
135)	Di-n-octyl phthalate	17.254	149	384	N.D.	
136)	Hexachlorophene	18.998	196	606	No Calib	#
138)	7,12-Dimethylbenz(a)an...	18.184	256	67	N.D.	
139)	Benzo(b)fluoranthene	0.000		0	N.D.	
140)	Benzo(k)fluoranthene	0.000		0	N.D.	
141)	Benzo(a)pyrene	18.879	252	552	N.D.	
142)	3-Methylcholanthrene	19.515	268	158	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.740	276	348	N.D.	
144)	Dibenzo(a,h)anthracene	20.768	278	654	N.D.	
145)	Benzo(g,h,i)perylene	21.206	276	516	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 10:23:58 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
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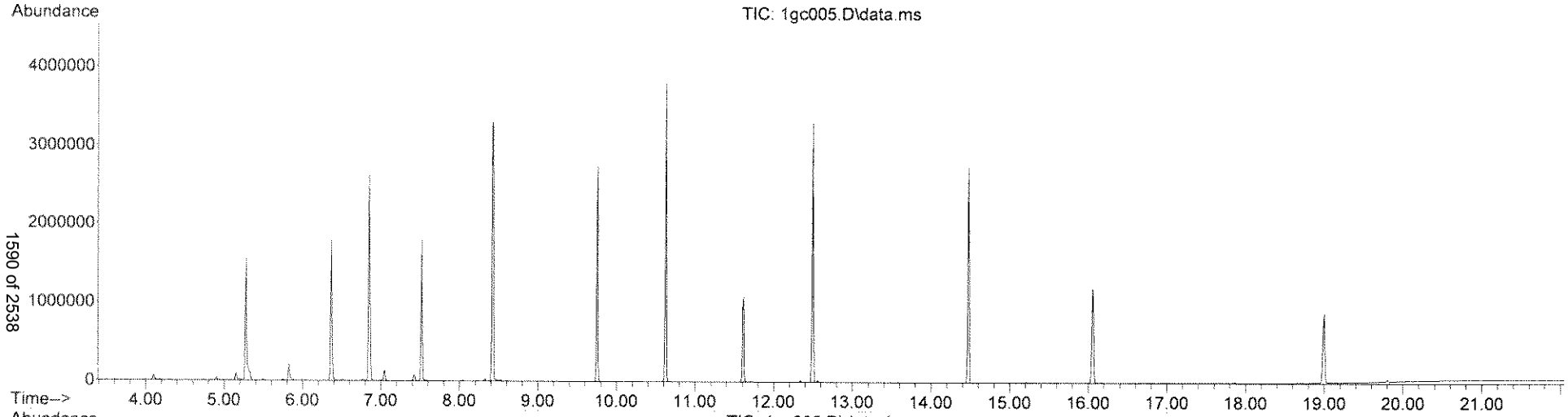
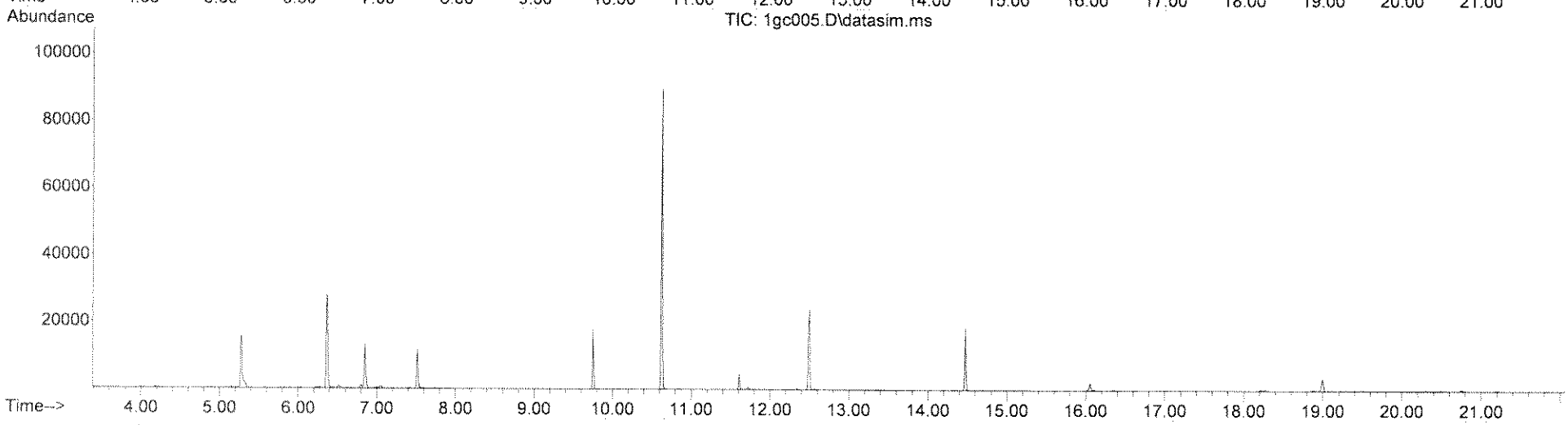
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 14:33:30 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

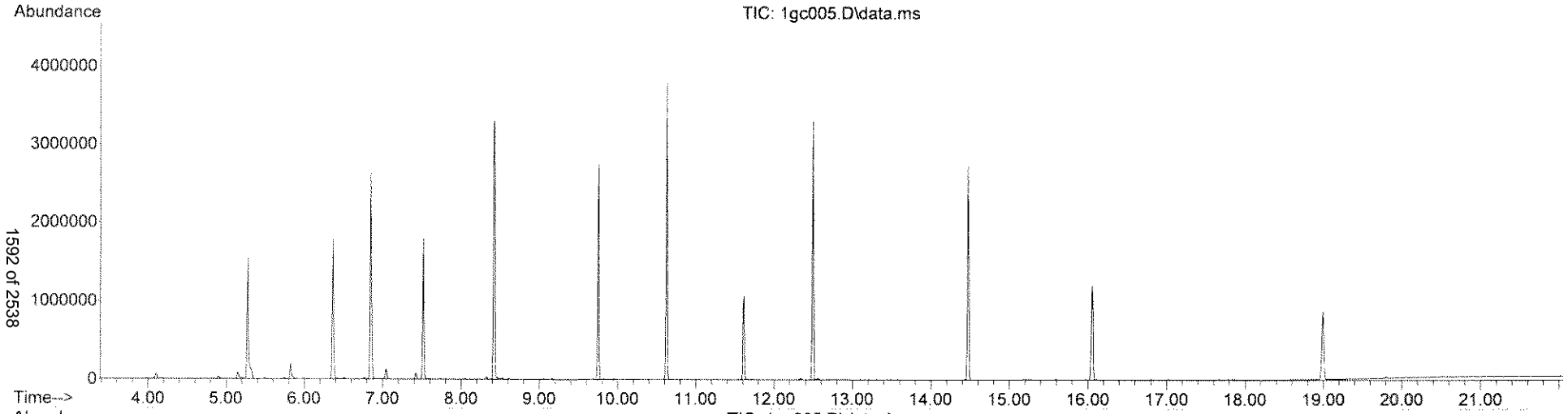
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.846	152	458108	40.00 ug/mL	-0.04
3) NAPHTHALENE-d8	8.415	136	1890115	40.00 ug/mL	-0.05
5) ACENAPHTHENE-d10	10.622	164	780879	40.00 ug/mL	-0.05
8) PHENANTHRENE-d10	12.494	188	1112885	40.00 ug/mL	-0.05
9) CHRYSENE-d12	16.052	240	637910	40.00 ug/mL	-0.08
10) PERYLENE-d12	18.998	264	493160	40.00 ug/mL	-0.08
Target Compounds					Qvalue
2) Benzaldehyde	0.000		0	N.D.	
4) Caprolactam	8.872	113	70	N.D.	
6) 1,1'-Biphenyl	9.756	154	1492	N.D.	
7) Atrazine	0.000		0	N.D.	

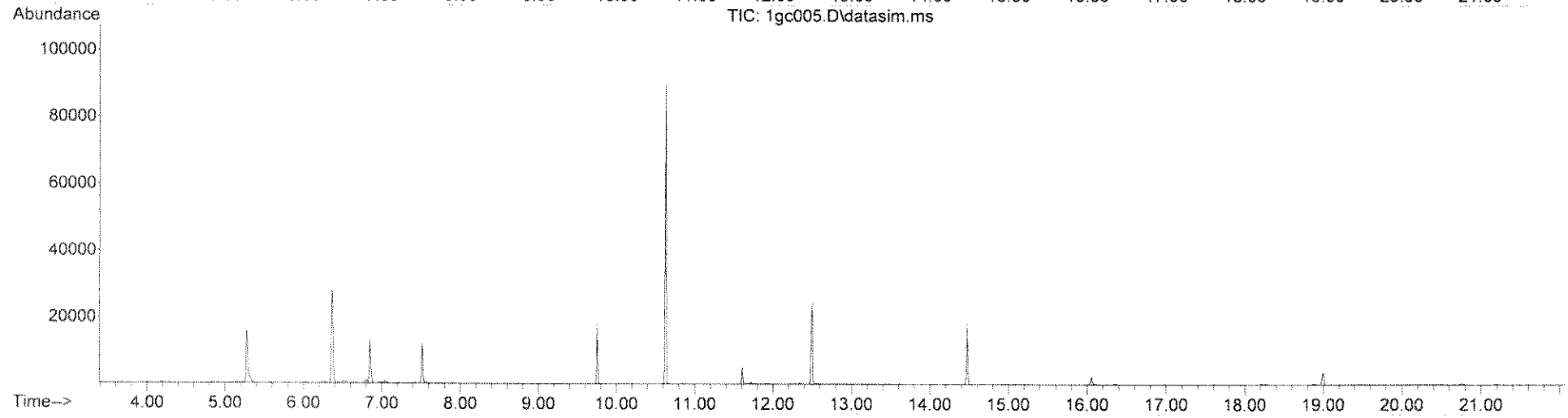
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 14:33:30 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gc005.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.097	69	72	78	rBV	67531	108673	2.60%	0.338%
2	4.907	150	153	156	rBV	36580	52796	1.26%	0.164%
3	5.147	174	177	180	rBV	92125	130556	3.12%	0.406%
4	5.277	187	190	206	rVB	1549854	2102981	50.30%	6.537%
5	5.827	242	245	250	rBV	208804	294676	7.05%	0.916%
6	6.366	296	299	305	rVB	1782070	2102700	50.29%	6.536%
7	6.846	344	347	352	rBV	2633178	3148971	75.32%	9.789%
8	7.046	364	367	373	rVB	133335	188502	4.51%	0.586%
9	7.416	400	404	411	rVB	75726	108081	2.59%	0.336%
10	7.516	411	414	417	rBV	1788189	1869858	44.72%	5.812%
11	8.415	504	507	510	rBV	3305631	4180972	100.00%	12.997%
12	9.756	648	651	653	rBV	2754422	3064609	73.30%	9.526%
13	10.622	741	744	747	rBV	3799521	3754744	89.81%	11.672%
14	11.614	845	848	850	rBV	1074482	1330326	31.82%	4.135%
15	12.494	927	930	933	rBV	3306295	3240329	77.50%	10.073%
16	14.470	1109	1112	1115	rBV	2732329	3076966	73.59%	9.565%
17	16.052	1259	1263	1267	rBV	1194334	1910370	45.69%	5.938%
18	18.998	1551	1557	1563	rBV	872077	1503543	35.96%	4.674%

Sum of corrected areas: 32169653

Signal : TIC: 1gc005.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

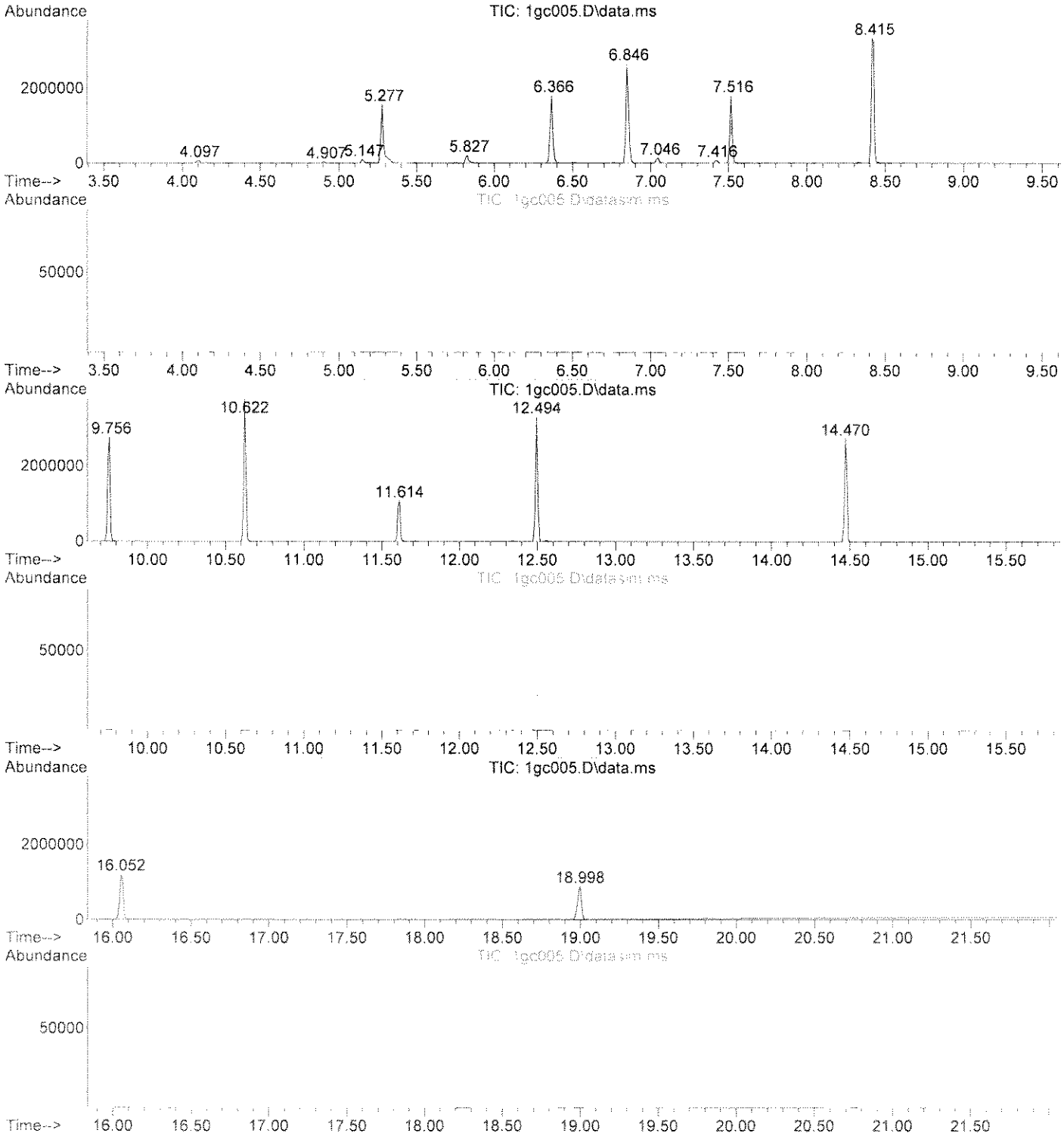
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

****

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc005.D
Acq On : 8 Jul 2013 8:54
Operator : jfi
Sample : 3g08001-blk1
Misc : a3g0061
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc006.D
Acq On : 8 Jul 2013 9:23
Operator : jfi
Sample : 3g08001-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 10:24:10 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	494177	40.00	ug/mL	-0.02
32) NAPHTHALENE-d8	8.425	136	2037671	40.00	ug/mL	-0.02
57) ACENAPHTHENE-d10	10.632	164	1097502	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.494	188	1768918	40.00	ug/mL	-0.02
124) CHRYSENE-d12	16.063	240	1154613	40.00	ug/mL	-0.03
137) PERYLENE-d12	19.006	264	957392	40.00	ug/mL	-0.03
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.287	112	773560	39.71	ug/mL	0.00
Spiked Amount 100.000			Recovery = 39.71%			
11) Phenol -D5 (acid surr)	6.376	99	1014084	42.30	ug/mL	0.00
Spiked Amount 100.000			Recovery = 42.30%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	977205	40.99	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 40.99%			
61) 2-Fluorobiphenyl (b/n ...	9.756	172	1756315	42.88	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 42.88%			
91) 2,4,6-Tribromophenol (...	11.614	330	211343	44.92	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 44.92%			
120) Terphenyl -D14 (b/n surr)	14.480	244	1478190	54.47	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 54.47%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.638	74	510448	39.019	ug/mL	85
3) Pyridine	3.678	79	718480	33.898	ug/mL	100
4) 2-Picoline	4.537	93	473	N.D.		
5) N-Nitrosomethylethylamine	4.797	88	94	N.D.		
6) Methyl methanesulfonate	5.067	80	83	N.D.		
8) 2-Fluorophenol	5.287	112	773560	39.709	ug/mL	95
9) N-Nitrosodiethylamine	5.577	102	81	N.D.		
10) Ethyl methanesulfonate	5.907	79	266	N.D.		
12) Phenol -D5	6.376	99	1014084	42.297	ug/mL	87
13) Pentachloroethane	6.516	167	4903	N.D.		
14) aniline	6.436	93	678	N.D.		
15) Phenol	6.396	94	937881	40.468	ug/mL	91
16) Bis(2-chloroethyl)ether	6.506	93	734965	40.818	ug/mL	86
17) 2-Chlorophenol	6.606	128	787299	42.046	ug/mL	97
18) 1,3-Dichlorobenzene	6.786	146	803625	36.318	ug/mL	100
19) 1,4-Dichlorobenzene	6.876	146	821414	36.571	ug/mL	100
20) Benzyl Alcohol	7.006	108	532909	43.624	ug/mL	92
21) 1,2-Dichlorobenzene	7.066	146	792754	38.079	ug/mL	99
22) 2-Methylphenol	7.136	107	620260	39.280	ug/mL	95
23) Bis(2-chloroisopropyl)...	7.156	45	881984	39.251	ug/mL	94
24) Acetophenone	7.336	105	1144781	40.691	ug/mL#	71
25) 3 & 4-Methylphenol	7.316	108	788491	40.259	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.326	70	624115	43.296	ug/mL	96
27) N-Nitrosopyrrolidine	7.306	100	425969	45.225	ug/mL	88
28) N-Nitrosomorpholine	7.326	56	46119	3.488	ug/mL#	49
29) Hexachloroethane	7.486	117	327530	36.902	ug/mL	99
30) o-Toluidine	7.336	106	81176	2.600	ug/mL#	1
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	977205	40.986	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc006.D
Acq On : 8 Jul 2013 9:23
Operator : jfi
Sample : 3g08001-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 10:24:10 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.546	77	847361	39.427 ug/mL	95
36) N-Nitrosopiperidine	7.686	114	1254	N.D.	
37) Isophorone	7.836	82	1611239	45.721 ug/mL	100
38) 2-Nitrophenol	7.936	139	409776	42.171 ug/mL	91
39) 2,4-Dimethylphenol	7.966	122	631739	36.097 ug/mL	95
40) Bis(2-chloroethoxy)met...	8.080	93	878251	41.296 ug/mL	95
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	8.127	105	40575	3.247 ug/mL#	53
43) 2,4-Dichlorophenol	8.239	162	608949	41.535 ug/mL	99
44) 1,2,4-Trichlorobenzene	8.350	180	707182	38.578 ug/mL	96
45) Naphthalene	8.453	128	2288430	39.309 ug/mL	99
46) 4-Chloroaniline	8.499	127	652520	28.771 ug/mL	100
47) 2,6-Dichlorophenol	8.518	162	621179	41.428 ug/mL	99
48) Hexachloropropene	8.574	213	277	N.D.	
49) Hexachlorobutadiene	8.602	223	267654	37.581 ug/mL	99
50) N-Nitrosodi-n-Butylamine	8.937	84	154952	10.909 ug/mL#	33
51) p-Phenylenediamine	8.918	108	179	N.D.	
52) 4-Chloro-3-methylphenol	9.086	107	697079	41.825 ug/mL	92
53) Safrole	9.309	162	76	N.D.	
54) 2-Methylnaphthalene	9.309	142	1539429	39.777 ug/mL	96
55) 1-Methylnaphthalene	9.440	142	1502704	34.379 ug/mL	97
56) Hexachlorocyclopentadiene	9.514	237	448296	47.769 ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.523	216	801033	43.290 ug/mL	98
59) 2,4,6-Trichlorophenol	9.654	196	451997	42.187 ug/mL	99
60) 2,4,5-Trichlorophenol	9.710	196	476458	40.998 ug/mL	99
62) 2-Fluorobiphenyl	9.756	172	1756315	42.883 ug/mL	100
63) Isosafrole	9.710	162	17397	1.312 ug/mL	95
64) 2-Chloronaphthalene	9.924	162	1298478	38.738 ug/mL	98
65) 2-Nitroaniline	10.035	65	457629	41.129 ug/mL	92
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.250	163	1602224	41.956 ug/mL	100
68) m-Dinitrobenzene	10.333	168	399	N.D.	
69) 2,6-Dinitrotoluene	10.333	165	350030	41.387 ug/mL	88
70) Acenaphthylene	10.454	152	2254046	40.452 ug/mL	99
71) 3-Nitroaniline	10.548	138	295337	35.840 ug/mL	96
72) Acenaphthene	10.669	154	1421196	38.943 ug/mL	96
73) 2,4-Dinitrophenol	10.669	184	141059	27.434 ug/mL#	1
74) Pentachlorobenzene	10.837	250	769	N.D.	
75) 4-Nitrophenol	10.734	109	234311	43.682 ug/mL	96
76) Dibenzofuran	10.883	168	1819101	39.602 ug/mL	96
77) 2,4-Dinitrotoluene	10.837	165	441281	39.494 ug/mL	97
78) 2-Naphthylamine	11.033	143	12905	N.D.	
79) 1-Naphthylamine	11.033	143	12905	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.033	232	418360	46.118 ug/mL	98
81) Diethyl phthalate	11.126	149	1650845	43.639 ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.294	204	797447	42.600 ug/mL	96
83) Fluorene	11.312	166	1536417	39.071 ug/mL	100
84) Thionazin	11.210	107	172	N.D.	
85) 5-Nitro-o-toluidine	11.294	152	2199	N.D.	
86) 4-Nitroaniline	11.323	138	311867	37.734 ug/mL	92
87) 2-Methyl-4,6-dinitroph...	11.363	198	271446	42.287 ug/mL	97
88) Diphenylamine/N-Nitros...	11.433	169	1112705	35.903 ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc006.D
Acq On : 8 Jul 2013 9:23
Operator : jfi
Sample : 3g08001-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 10:24:10 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.433	169	1112705	17.952 ug/mL	98
90)	DPH (as Azobenzene)	11.493	182	424196	42.387 ug/mL	92
92)	2,4,6-Tribromophenol	11.614	330	211343	44.915 ug/mL	98
94)	Sulfotepp	11.614	97	738	N.D.	
95)	Diallate	11.785	86	777	N.D.	
96)	Phorate	11.785	75	1332	N.D.	
97)	4-Bromophenylphenyl ether	11.905	248	425463	37.838 ug/mL	95
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.684	213	399	N.D.	
100)	Hexachlorobenzene	12.026	284	476813	43.422 ug/mL	100
101)	Dimethoate	12.016	87	333	N.D.	
102)	4-Aminobiphenyl	12.252	169	39411	1.073 ug/mL	66
103)	Pentachlorophenol	12.252	266	258337	39.406 ug/mL	99
104)	Pronamide	12.264	173	117	N.D.	
105)	Pentachloronitrobenzene	12.252	237	10419	2.268 ug/mL#	26
106)	Phenanthrene	12.529	178	2096640	41.275 ug/mL	99
107)	Disulfoton	12.529	88	166238	8.714 ug/mL#	31
108)	Anthracene	12.598	178	2171200	41.837 ug/mL	99
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.783	167	1801351	43.295 ug/mL	98
111)	Methyl Parathion	12.933	109	1117	N.D.	
112)	Di-n-butyl phthalate	13.164	149	2637012	47.022 ug/mL	97
113)	Parathion	13.291	109	89	N.D.	
114)	4-Nitroquinoline-1-oxide	13.464	190	184	N.D.	
115)	Methapyrilene	13.522	97	1084	N.D.	
116)	Isodrin	13.847	193	200224	44.938 ug/mL	90
117)	Fluoranthene	14.028	202	1746916	47.532 ug/mL	96
118)	Benzidine	13.847	184	13362	44.264 ug/mL	92
119)	Pyrene	14.319	202	1757195	45.833 ug/mL	95
121)	Terphenyl -D14	14.480	244	1478190	54.468 ug/mL	100
122)	Aramite	14.470	185	4317	6.560 ug/mL#	42
123)	Benzylbutyl phthalate	15.093	149	760573	49.013 ug/mL	97
125)	p-(dimethylamino)azobe...	14.480	225	7466	N.D.	
126)	Chlorobenzilate	14.570	251	89	N.D.	
127)	Famphur	15.865	218	156	No Calib #	
128)	3,3'-Dimethylbenzidine	15.083	212	980	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.479	181	135	N.D.	
131)	3,3'-Dichlorobenzidine	15.964	252	387202	37.741 ug/mL	99
132)	Benzo(a)anthracene	16.041	228	1464911	44.793 ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	15.975	149	1045050	47.302 ug/mL	97
134)	Chrysene	16.118	228	1407646	47.578 ug/mL	97
135)	Di-n-octyl phthalate	17.243	149	1662760	49.045 ug/mL	100
136)	Hexachlorophene	19.006	196	759	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.218	256	154	N.D.	
139)	Benzo(b)fluoranthene	18.235	252	1220748	35.791 ug/mL	96
140)	Benzo(k)fluoranthene	18.294	252	1242968	43.460 ug/mL	96
141)	Benzo(a)pyrene	18.896	252	1100848	39.819 ug/mL	96
142)	3-Methylcholanthrene	19.659	268	191	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.768	276	1358501	53.494 ug/mL	82
144)	Dibenzo(a,h)anthracene	20.786	278	1233256	56.228 ug/mL	92
145)	Benzo(g,h,i)perylene	21.215	276	1091971	57.600 ug/mL	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc006.D
Acq On : 8 Jul 2013 9:23
Operator : jfi
Sample : 3g08001-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 10:24:10 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
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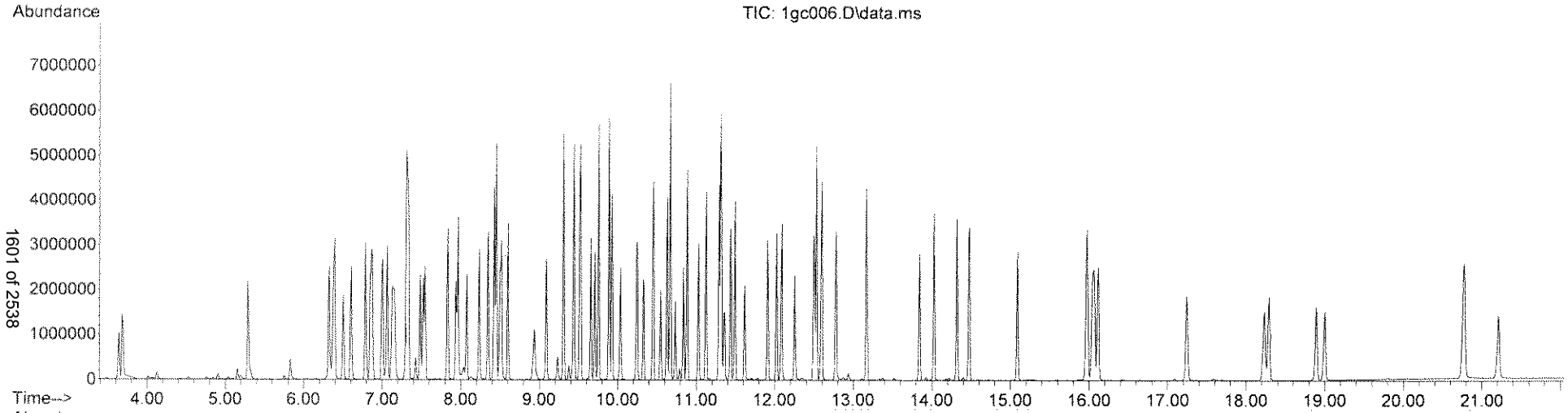
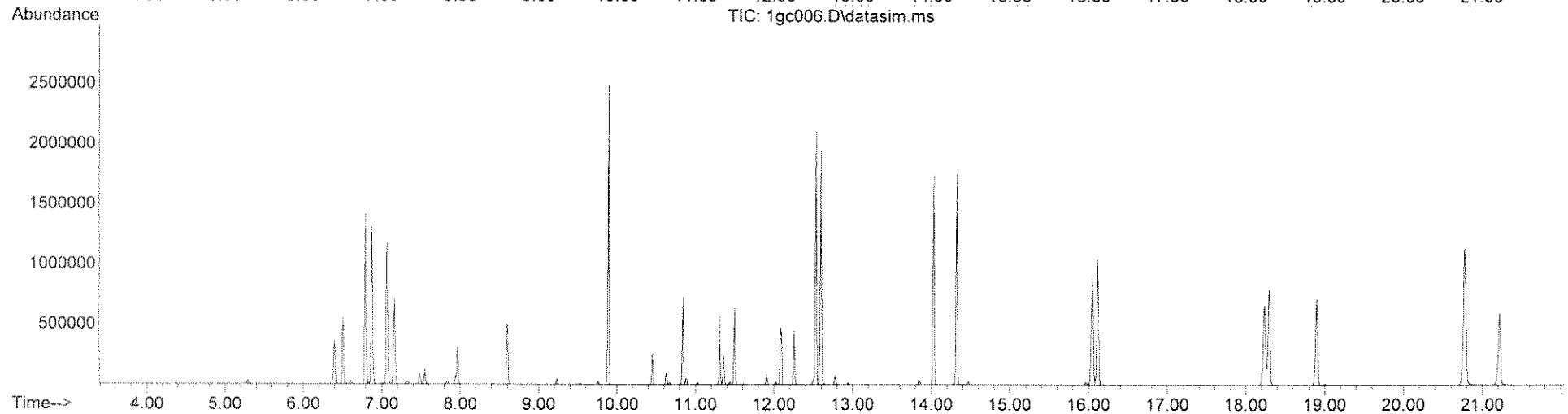
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc006.D
Acq On : 8 Jul 2013 9:23
Operator : jfi
Sample : 3g08001-bs1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 14:33:32 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	494177	40.00	ug/mL	-0.04
3) NAPHTHALENE-d8	8.425	136	2037671	40.00	ug/mL	-0.04
5) ACENAPHTHENE-d10	10.632	164	1097502	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.494	188	1768918	40.00	ug/mL	-0.05
9) CHRYSENE-d12	16.063	240	1154613	40.00	ug/mL	-0.07
10) PERYLENE-d12	19.006	264	957166	40.00	ug/mL	-0.07
Target Compounds						Qvalue
2) Benzaldehyde	6.326	106	627269	44.894	ug/mL	97
4) Caprolactam	8.937	113	251233	57.207	ug/mL	98
6) 1,1'-Biphenyl	9.886	154	1897133	43.484	ug/mL	97
7) Atrazine	12.090	200	483642	51.676	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Misc :
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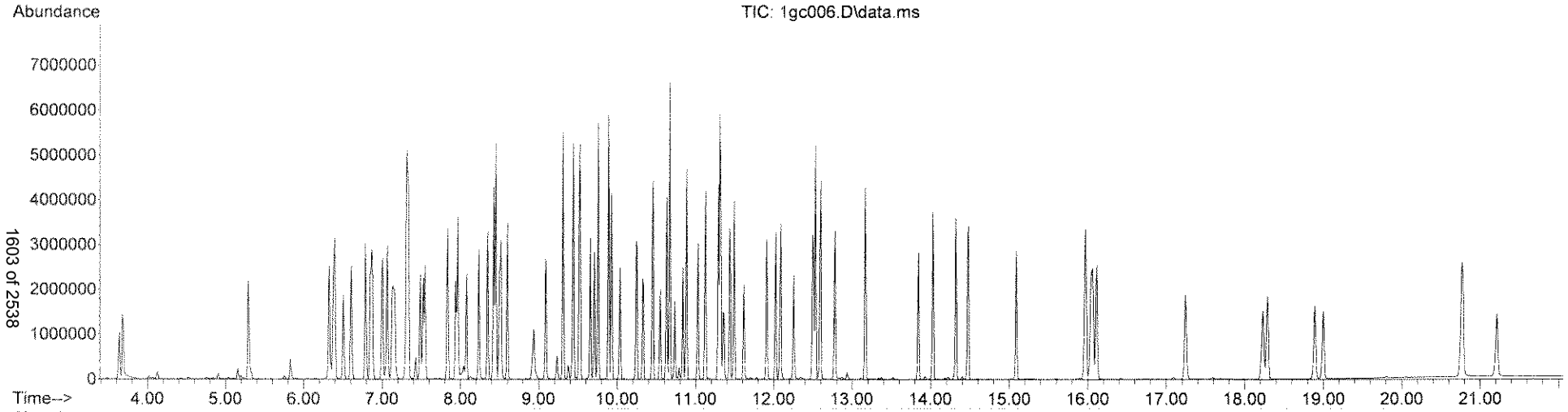
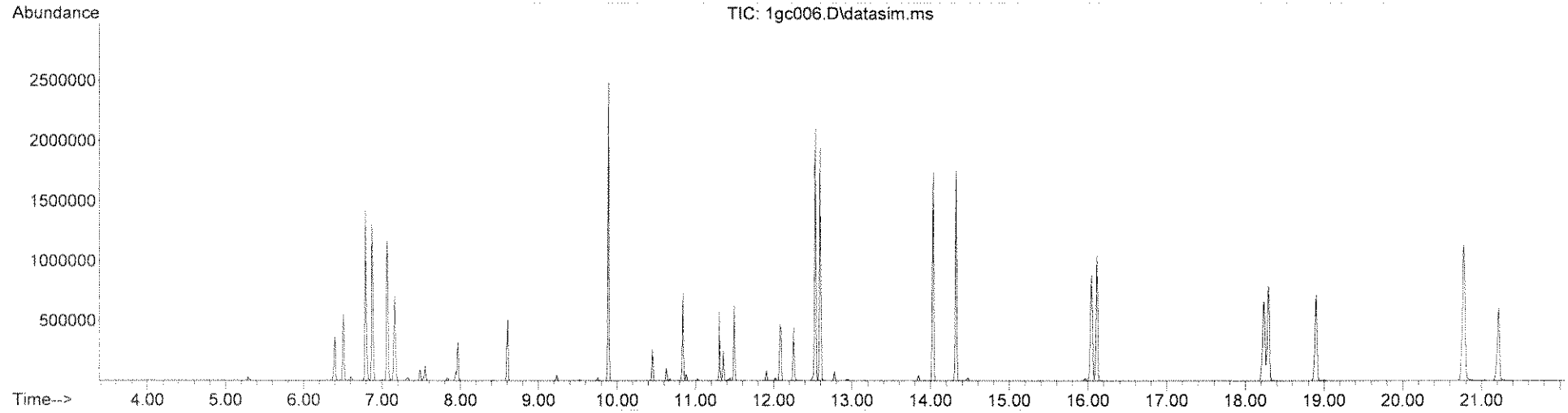
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc007.D
Acq On : 8 Jul 2013 9:51
Operator : jfi
Sample : 3g08001-bsd1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	452409	40.00	ug/mL	-0.02
32) NAPHTHALENE-d8	8.425	136	1860042	40.00	ug/mL	-0.02
57) ACENAPHTHENE-d10	10.632	164	985942	40.00	ug/mL	-0.02
93) PHENANTHRENE-d10	12.494	188	1488239	40.00	ug/mL	-0.02
124) CHRYSENE-d12	16.063	240	884538	40.00	ug/mL	-0.03
137) PERYLENE-d12	18.998	264	746976	40.00	ug/mL	-0.04
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.287	112	823993	46.20	ug/mL	0.00
Spiked Amount 100.000			Recovery = 46.20%			
11) Phenol -D5 (acid surr)	6.376	99	1070160	48.76	ug/mL	0.00
Spiked Amount 100.000			Recovery = 48.76%			
33) Nitrobenzene -D5 (b/n ...	7.526	82	1020211	46.88	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 46.88%			
61) 2-Fluorobiphenyl (b/n ...	9.756	172	1793408	48.74	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 48.74%			
91) 2,4,6-Tribromophenol (...	11.614	330	200147	47.35	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 47.35%			
120) Terphenyl -D14 (b/n surr)	14.470	244	1246160	54.58	ug/mL	-0.03
Spiked Amount 100.000			Recovery = 54.58%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.638	74	520130	43.430	ug/mL	83
3) Pyridine	3.678	79	760214	39.178	ug/mL	99
4) 2-Picoline	4.507	93	235	N.D.		
5) N-Nitrosomethylethylamine	4.787	88	79	N.D.		
6) Methyl methanesulfonate	5.007	80	80	N.D.		
8) 2-Fluorophenol	5.287	112	823993	46.203	ug/mL	92
9) N-Nitrosodiethylamine	5.457	102	88	N.D.		
10) Ethyl methanesulfonate	5.907	79	278	N.D.		
12) Phenol -D5	6.376	99	1070160	48.757	ug/mL	85
13) Pentachloroethane	6.516	167	3781	N.D.		
14) aniline	6.506	93	749805	25.954	ug/mL#	30
15) Phenol	6.396	94	948700	44.714	ug/mL	90
16) Bis(2-chloroethyl)ether	6.506	93	749702	45.481	ug/mL	86
17) 2-Chlorophenol	6.606	128	810436	47.277	ug/mL	95
18) 1,3-Dichlorobenzene	6.786	146	814620	40.213	ug/mL	99
19) 1,4-Dichlorobenzene	6.876	146	833084	40.515	ug/mL	99
20) Benzyl Alcohol	7.006	108	533997	47.748	ug/mL	91
21) 1,2-Dichlorobenzene	7.066	146	789680	41.433	ug/mL	99
22) 2-Methylphenol	7.136	107	625449	43.265	ug/mL	96
23) Bis(2-chloroisopropyl)...	7.156	45	893651	43.442	ug/mL	94
24) Acetophenone	7.336	105	1159574	45.022	ug/mL#	70
25) 3 & 4-Methylphenol	7.316	108	811033	45.233	ug/mL	96
26) N-Nitrosodi-n-propylamine	7.326	70	630627	47.787	ug/mL	96
27) N-Nitrosopyrrolidine	7.306	100	423460	49.109	ug/mL	89
28) N-Nitrosomorpholine	7.326	56	44858	3.706	ug/mL#	49
29) Hexachloroethane	7.486	117	330904	40.724	ug/mL	99
30) o-Toluidine	7.336	106	80939	2.832	ug/mL#	1
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.526	82	1020211	46.876	ug/mL	94

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc007.D
Acq On : 8 Jul 2013 9:51
Operator : jfi
Sample : 3g08001-bsd1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.546	77	832884	42.454 ug/mL	92
36) N-Nitrosopiperidine	7.676	114	389	N.D.	
37) Isophorone	7.836	82	1593337	49.531 ug/mL	99
38) 2-Nitrophenol	7.936	139	412026	46.452 ug/mL	90
39) 2,4-Dimethylphenol	7.966	122	655434	41.027 ug/mL	94
40) Bis(2-chloroethoxy)met...	8.080	93	874706	45.057 ug/mL	95
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	8.127	105	35759	3.135 ug/mL#	59
43) 2,4-Dichlorophenol	8.239	162	611184	45.669 ug/mL	99
44) 1,2,4-Trichlorobenzene	8.350	180	706050	42.195 ug/mL	96
45) Naphthalene	8.453	128	2298420	43.250 ug/mL	99
46) 4-Chloroaniline	8.499	127	696631	33.649 ug/mL	100
47) 2,6-Dichlorophenol	8.518	162	620873	45.362 ug/mL	99
48) Hexachloropropene	8.574	213	241	N.D.	
49) Hexachlorobutadiene	8.602	223	267294	41.114 ug/mL	99
50) N-Nitrosodi-n-Butylamine	8.937	84	145475	11.219 ug/mL#	36
51) p-Phenylenediamine	8.946	108	451	N.D.	
52) 4-Chloro-3-methylphenol	9.086	107	698528	45.914 ug/mL	91
53) Safrole	9.002	162	75	N.D.	
54) 2-Methylnaphthalene	9.309	142	1505282	42.609 ug/mL	98
55) 1-Methylnaphthalene	9.440	142	1494303	37.451 ug/mL	97
56) Hexachlorocyclopentadiene	9.514	237	452385	52.808 ug/mL	100
58) 1,2,4,5-Tetrachloroben...	9.523	216	780447	46.950 ug/mL	98
59) 2,4,6-Trichlorophenol	9.654	196	450470	46.802 ug/mL	99
60) 2,4,5-Trichlorophenol	9.710	196	455977	43.675 ug/mL	100
62) 2-Fluorobiphenyl	9.756	172	1793408	48.743 ug/mL	100
63) Isosafrole	9.710	162	17074	1.433 ug/mL	85
64) 2-Chloronaphthalene	9.924	162	1271646	42.230 ug/mL	97
65) 2-Nitroaniline	10.035	65	444335	44.453 ug/mL	92
66) 1,4-Naphthoquinone	10.250	158	114	N.D.	
67) Dimethyl phthalate	10.250	163	1555219	45.334 ug/mL	100
68) m-Dinitrobenzene	10.333	168	303	N.D.	
69) 2,6-Dinitrotoluene	10.324	165	328263	43.205 ug/mL	88
70) Acenaphthylene	10.454	152	2178448	43.519 ug/mL	99
71) 3-Nitroaniline	10.548	138	278636	37.639 ug/mL	98
72) Acenaphthene	10.669	154	1377000	42.001 ug/mL	95
73) 2,4-Dinitrophenol	10.669	184	123222	26.810 ug/mL#	1
74) Pentachlorobenzene	10.837	250	426	N.D.	
75) 4-Nitrophenol	10.734	109	214104	44.431 ug/mL	96
76) Dibenzofuran	10.883	168	1777390	43.072 ug/mL	95
77) 2,4-Dinitrotoluene	10.837	165	406175	40.465 ug/mL	98
78) 2-Naphthylamine	11.033	143	11186	N.D.	
79) 1-Naphthylamine	11.033	143	11186	N.D.	
80) 2,3,4,6-Tetrachlorophenol	11.033	232	395055	48.477 ug/mL	98
81) Diethyl phthalate	11.126	149	1536792	45.221 ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.294	204	756746	45.000 ug/mL	97
83) Fluorene	11.312	166	1431099	40.511 ug/mL	100
84) Thionazin	11.201	107	435	N.D.	
85) 5-Nitro-o-toluidine	11.163	152	76	N.D.	
86) 4-Nitroaniline	11.323	138	278721	37.539 ug/mL	90
87) 2-Methyl-4,6-dinitroph...	11.363	198	239960	41.611 ug/mL	99
88) Diphenylamine/N-Nitros...	11.433	169	1032523	37.086 ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc007.D
Acq On : 8 Jul 2013 9:51
Operator : jfi
Sample : 3g08001-bsd1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.433	169	1032523	18.543 ug/mL	97
90)	DPH (as Azobenzene)	11.493	182	397421	44.205 ug/mL	92
92)	2,4,6-Tribromophenol	11.614	330	200147	47.349 ug/mL	97
94)	Sulfotepp	11.614	97	321	N.D.	
95)	Diallate	11.785	86	637	N.D.	
96)	Phorate	11.785	75	1332	N.D.	
97)	4-Bromophenylphenyl ether	11.905	248	389398	41.161 ug/mL	95
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	11.694	213	172	N.D.	
100)	Hexachlorobenzene	12.026	284	432757	46.843 ug/mL	99
101)	Dimethoate	12.026	87	299	N.D.	
102)	4-Aminobiphenyl	12.252	169	37633	1.218 ug/mL	67
103)	Pentachlorophenol	12.252	266	229851	41.673 ug/mL	98
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	12.252	237	7885	2.040 ug/mL#	27
106)	Phenanthrene	12.529	178	1883605	44.074 ug/mL	99
107)	Disulfoton	12.529	88	151053	9.412 ug/mL#	33
108)	Anthracene	12.598	178	1945973	44.568 ug/mL	99
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.772	167	1509360	43.119 ug/mL	98
111)	Methyl Parathion	12.933	109	286	N.D.	
112)	Di-n-butyl phthalate	13.164	149	2345066	49.703 ug/mL	97
113)	Parathion	13.441	109	101	N.D.	
114)	4-Nitroquinoline-1-oxide	13.533	190	188	N.D.	
115)	Methapyrilene	13.522	97	715	N.D.	
116)	Isodrin	13.847	193	183830	49.040 ug/mL	90
117)	Fluoranthene	14.028	202	1488203	48.130 ug/mL	95
118)	Benzidine	13.847	184	11614	45.729 ug/mL	85
119)	Pyrene	14.319	202	1472017	45.636 ug/mL	93
121)	Terphenyl -D14	14.470	244	1246160	54.578 ug/mL	100
122)	Aramite	14.470	185	2800	5.057 ug/mL#	49
123)	Benzylbutyl phthalate	15.093	149	635988	48.715 ug/mL	99
125)	p-(dimethylamino)azobe...	14.480	225	6586	1.118 ug/mL#	100
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	15.854	218	110	No Calib #	
128)	3,3'-Dimethylbenzidine	15.093	212	363	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	15.479	181	228	N.D.	
131)	3,3'-Dichlorobenzidine	15.964	252	330090	41.998 ug/mL	98
132)	Benzo(a)anthracene	16.041	228	1212596	48.399 ug/mL	97
133)	Bis(2-ethylhexyl)phtha...	15.975	149	857828	50.683 ug/mL	97
134)	Chrysene	16.107	228	1147223	50.615 ug/mL	97
135)	Di-n-octyl phthalate	17.243	149	1348665	51.926 ug/mL	100
136)	Hexachlorophene	18.989	196	626	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.209	256	68	N.D.	
139)	Benzo(b)fluoranthene	18.235	252	1032342	38.793 ug/mL	97
140)	Benzo(k)fluoranthene	18.294	252	1007646	45.157 ug/mL	95
141)	Benzo(a)pyrene	18.896	252	910354	42.205 ug/mL	96
142)	3-Methylcholanthrene	19.498	268	199	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.767	276	1058937	53.444 ug/mL	84
144)	Dibenzo(a,h)anthracene	20.777	278	943414	55.129 ug/mL	90
145)	Benzo(g,h,i)perylene	21.215	276	837001	56.587 ug/mL	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc007.D
Acq On : 8 Jul 2013 9:51
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Sample : 3g08001-bsd1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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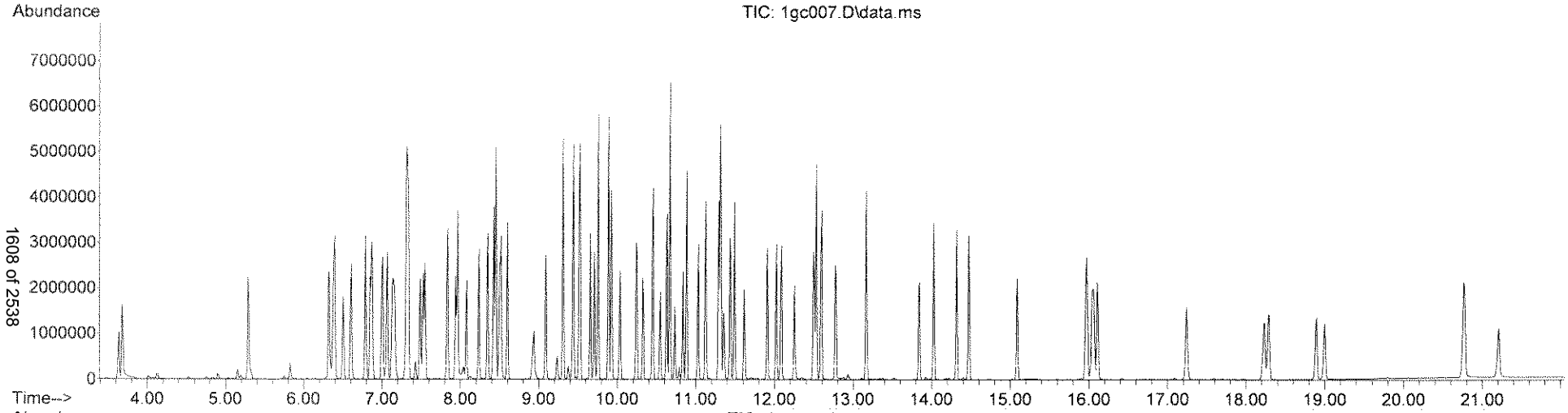
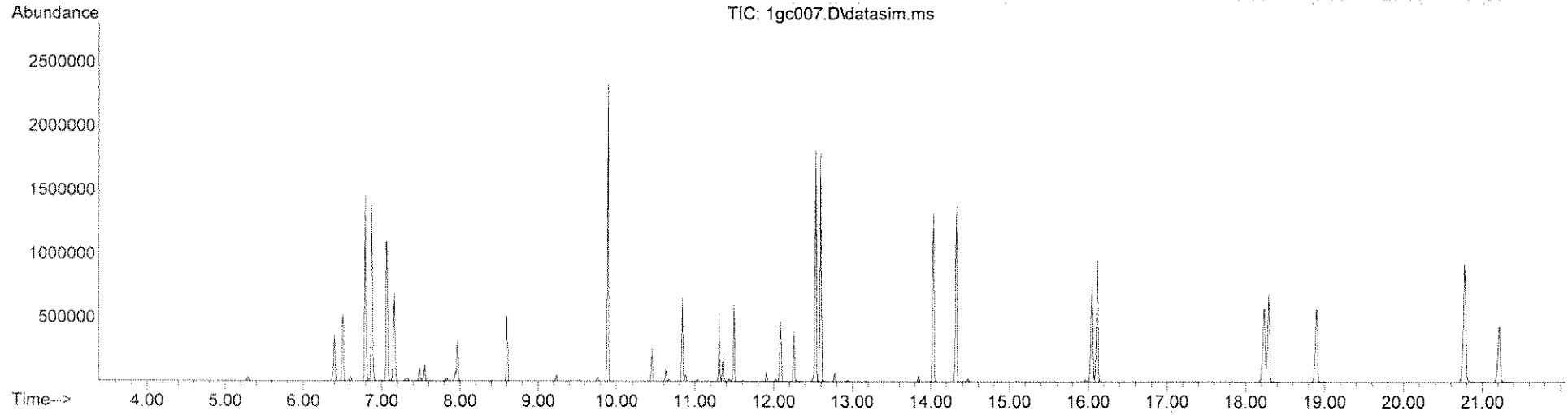
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:24:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc007.D
Acq On : 8 Jul 2013 9:51
Operator : jfi
Sample : 3g08001-bsd1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 14:33:34 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

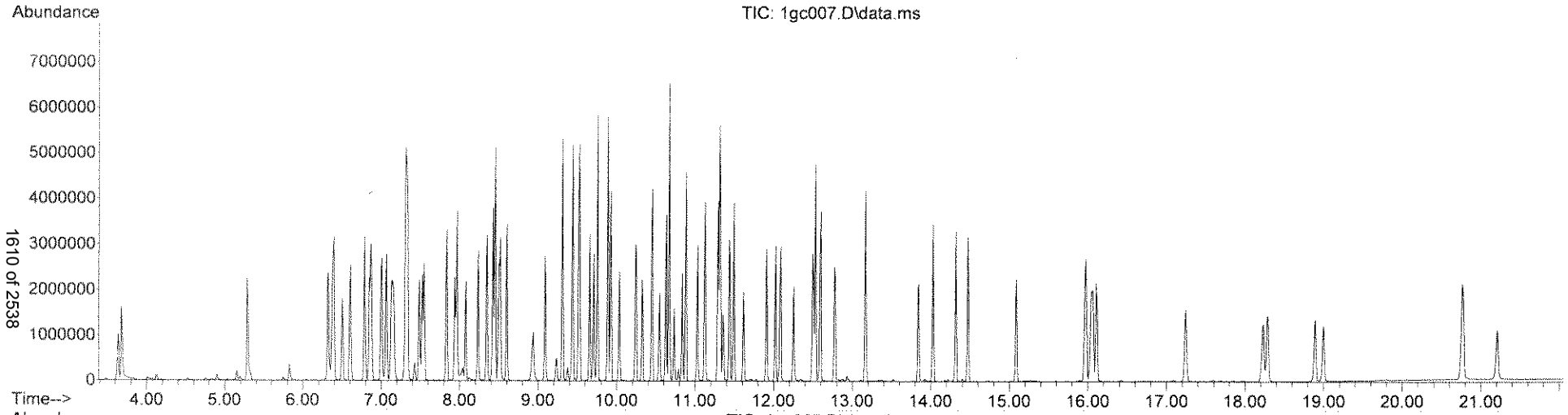
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	452409	40.00	ug/mL	-0.04
3) NAPHTHALENE-d8	8.425	136	1860042	40.00	ug/mL	-0.04
5) ACENAPHTHENE-d10	10.632	164	985942	40.00	ug/mL	-0.04
8) PHENANTHRENE-d10	12.494	188	1488239	40.00	ug/mL	-0.05
9) CHRYSENE-d12	16.063	240	884538	40.00	ug/mL	-0.07
10) PERYLENE-d12	18.998	264	746976	40.00	ug/mL	-0.08
Target Compounds						Qvalue
2) Benzaldehyde	6.316	106	643191	50.284	ug/mL	97
4) Caprolactam	8.937	113	234818	58.575	ug/mL	97
6) 1,1'-Biphenyl	9.886	154	1871090	47.740	ug/mL	97
7) Atrazine	12.090	200	449169	53.423	ug/mL	98

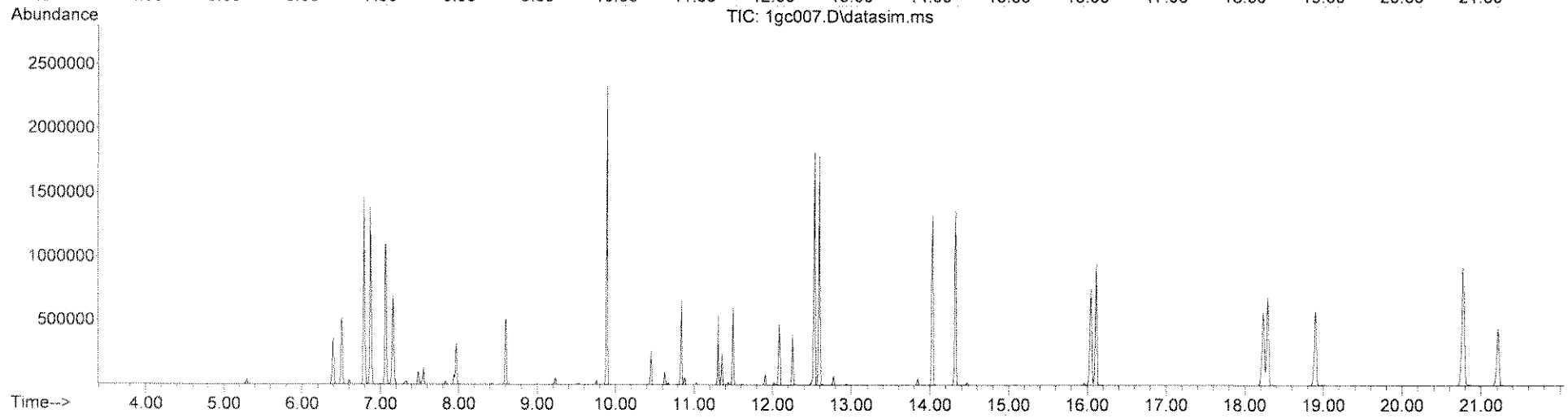
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc007.D
Acq On : 8 Jul 2013 9:51
Operator : jfi
Sample : 3g08001-bsd1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 14:33:34 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : lgc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 13:10:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	513786	40.00	ug/mL	-0.02
32) NAPHTHALENE-d8	8.425	136	2115873	40.00	ug/mL	-0.02
57) ACENAPHTHENE-d10	10.622	164	1205502	40.00	ug/mL	-0.03
93) PHENANTHRENE-d10	12.495	188	1933927	40.00	ug/mL	-0.02
124) CHRYSENE-d12	16.063	240	1117671	40.00	ug/mL	-0.03
137) PERYLENE-d12	18.998	264	751351	40.00	ug/mL	-0.04
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.277	112	384391	18.98	ug/mL	0.00
Spiked Amount 100.000			Recovery = 18.98%			
11) Phenol -D5 (acid surr)	6.366	99	520790	20.89	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 20.89%			
33) Nitrobenzene -D5 (b/n ...	7.516	82	456370	18.43	ug/mL	-0.03
Spiked Amount 100.000			Recovery = 18.43%			
61) 2-Fluorobiphenyl (b/n ...	9.756	172	936171	20.81	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 20.81%			
91) 2,4,6-Tribromophenol (...	11.614	330	206622	39.98	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 39.98%			
120) Terphenyl -D14 (b/n surr)	14.480	244	1615709	54.46	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 54.46%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.618	74	351	N.D.		
3) Pyridine	3.628	79	107	N.D.		
4) 2-Picoline	4.517	93	412	N.D.		
5) N-Nitrosomethylethylamine	0.000		0	N.D.		
6) Methyl methanesulfonate	5.157	80	1061	N.D.		
8) 2-Fluorophenol	5.277	112	384391	18.979	ug/mL	92
9) N-Nitrosodiethylamine	0.000		0	N.D.		
10) Ethyl methanesulfonate	5.877	79	77	N.D.		
12) Phenol -D5	6.366	99	520790	20.893	ug/mL	87
13) Pentachloroethane	6.516	167	1821	N.D.		
14) aniline	6.506	93	292	N.D.		
15) Phenol	0.000		0	N.D.		
16) Bis(2-chloroethyl)ether	6.506	93	292	N.D.		
17) 2-Chlorophenol	6.596	128	246	N.D.		
18) 1,3-Dichlorobenzene	6.786	146	105	N.D.		
19) 1,4-Dichlorobenzene	6.846	146	378	N.D.		
20) Benzyl Alcohol	6.986	108	81	N.D.		
21) 1,2-Dichlorobenzene	7.076	146	153	N.D.		
22) 2-Methylphenol	7.046	107	80	N.D.		
23) Bis(2-chloroisopropyl)...	7.186	45	80	N.D.		
24) Acetophenone	0.000		0	N.D.		
25) 3 & 4-Methylphenol	7.336	108	90	N.D.		
26) N-Nitrosodi-n-propylamine	7.346	70	178	N.D.		
27) N-Nitrosopyrrolidine	0.000		0	N.D.		
28) N-Nitrosomorpholine	7.356	56	83	N.D.		
29) Hexachloroethane	7.436	117	114	N.D.		
30) o-Toluidine	0.000		0	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.516	82	456370	18.433	ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 13:10:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.516	77	2181	N.D.	
36) N-Nitrosopiperidine	7.806	114	261	N.D.	
37) Isophorone	7.866	82	326	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	0.000		0	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.341	180	265	N.D.	
45) Naphthalene	8.406	128	150	N.D.	
46) 4-Chloroaniline	8.527	127	166	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.872	84	79	N.D.	
51) p-Phenylenediamine	9.039	108	78	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	0.000		0	N.D.	
55) 1-Methylnaphthalene	0.000		0	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.523	216	158	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.756	172	936171	20.810 ug/mL	99
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	9.887	65	74	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	0.000		0	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	10.510	152	78	N.D.	
71) 3-Nitroaniline	10.622	138	200	N.D.	
72) Acenaphthene	10.622	154	4243	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	10.837	250	76	N.D.	
75) 4-Nitrophenol	10.622	109	2441	N.D.	
76) Dibenzofuran	0.000		0	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	0.000		0	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.117	149	5817	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	11.303	166	98	N.D.	
84) Thionazin	0.000		0	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	11.294	138	75	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 13:10:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	0.000		0	N.D.	
90)	DPH (as Azobenzene)	11.614	182	80	N.D.	
92)	2,4,6-Tribromophenol	11.614	330	206622	39.978 ug/mL	98
94)	Sulfotepp	11.604	97	240	N.D.	
95)	Diallate	11.724	86	87	N.D.	
96)	Phorate	11.724	75	168	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	11.996	87	88	N.D.	
102)	4-Aminobiphenyl	0.000		0	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.587	178	181	N.D.	
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.633	178	100	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	0.000		0	N.D.	
111)	Methyl Parathion	13.002	109	100	N.D.	
112)	Di-n-butyl phthalate	13.164	149	18187	N.D.	
113)	Parathion	13.464	109	99	N.D.	
114)	4-Nitroquinoline-1-oxide	13.499	190	93	N.D.	
115)	Methapyrilene	13.557	97	152	N.D.	
116)	Isodrin	13.837	193	352	N.D.	
117)	Fluoranthene	14.018	202	590	N.D.	
118)	Benzidine	0.000		0	N.D.	
119)	Pyrene	14.309	202	546	N.D.	
121)	Terphenyl -D14	14.480	244	1615709	54.456 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.093	149	200	N.D.	
125)	p-(dimethylamino)azobe...	14.550	225	77	N.D.	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	0.000		0	N.D.	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	19.735	272	68	No Calib #	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	15.953	252	96	N.D.	
132)	Benzo(a)anthracene	16.063	228	3132	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.975	149	1432	N.D.	
134)	Chrysene	16.063	228	3132	N.D.	
135)	Di-n-octyl phthalate	17.243	149	940	N.D.	
136)	Hexachlorophene	18.998	196	799	No Calib #	
138)	7,12-Dimethylbenz(a)an...	0.000		0	N.D.	
139)	Benzo(b)fluoranthene	18.218	252	1163	N.D.	
140)	Benzo(k)fluoranthene	18.218	252	1163	N.D.	
141)	Benzo(a)pyrene	18.871	252	1121	N.D.	
142)	3-Methylcholanthrene	19.566	268	162	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.740	276	1013	N.D.	
144)	Dibenzo(a,h)anthracene	20.768	278	567	N.D.	
145)	Benzo(g,h,i)perylene	21.187	276	772	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 13:10:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
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Quant Time: Jul 08 13:10:31 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
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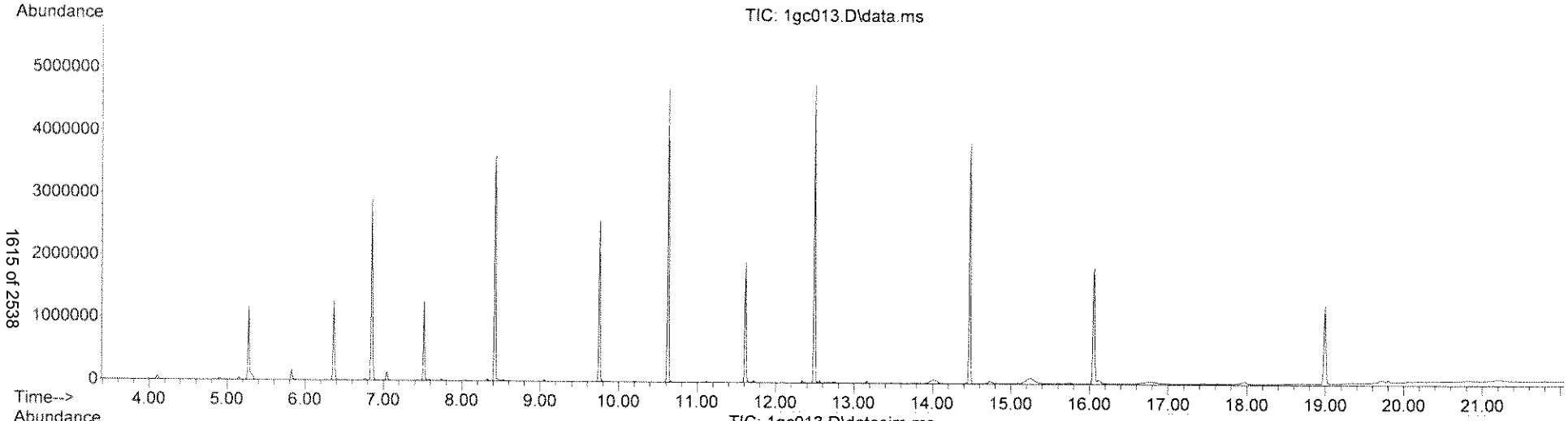
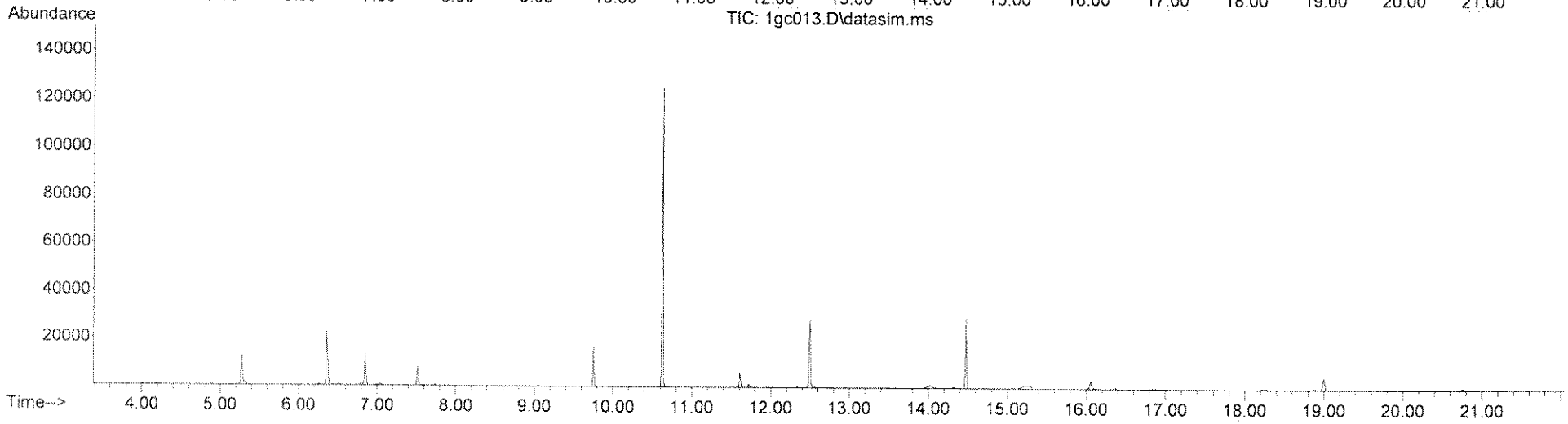
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 14:33:46 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

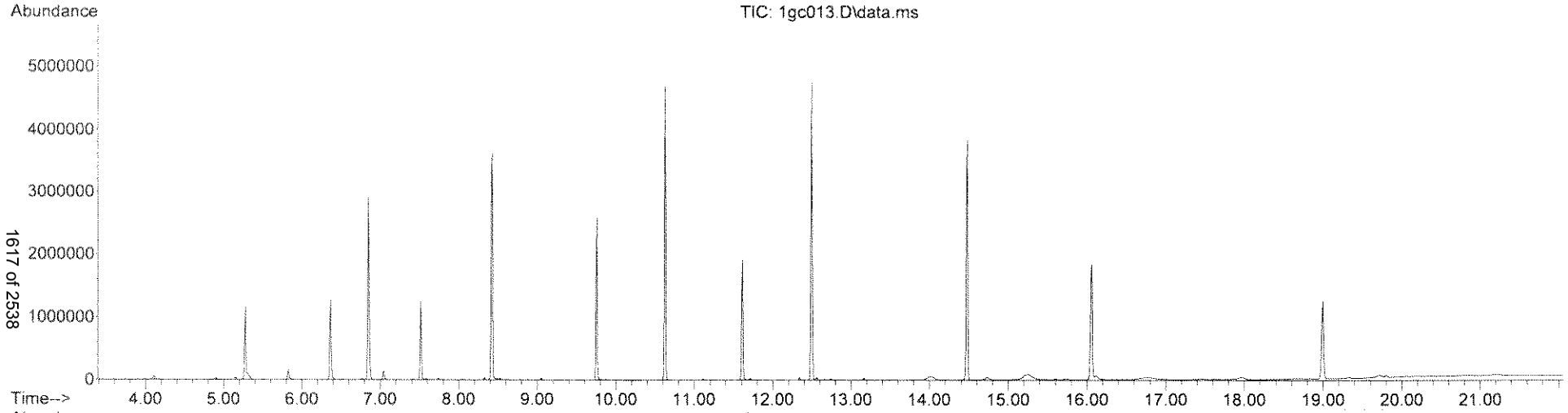
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.846	152	513786	40.00 ug/mL	-0.04
3) NAPHTHALENE-d8	8.425	136	2114674	40.00 ug/mL	-0.04
5) ACENAPHTHENE-d10	10.622	164	1205502	40.00 ug/mL	-0.05
8) PHENANTHRENE-d10	12.495	188	1933927	40.00 ug/mL	-0.05
9) CHRYSENE-d12	16.063	240	1117671	40.00 ug/mL	-0.07
10) PERYLENE-d12	18.998	264	751351	40.00 ug/mL	-0.08
Target Compounds					Qvalue
2) Benzaldehyde	0.000		0	N.D.	
4) Caprolactam	8.881	113	275	N.D.	
6) 1,1'-Biphenyl	9.756	154	1855	N.D.	
7) Atrazine	0.000		0	N.D.	

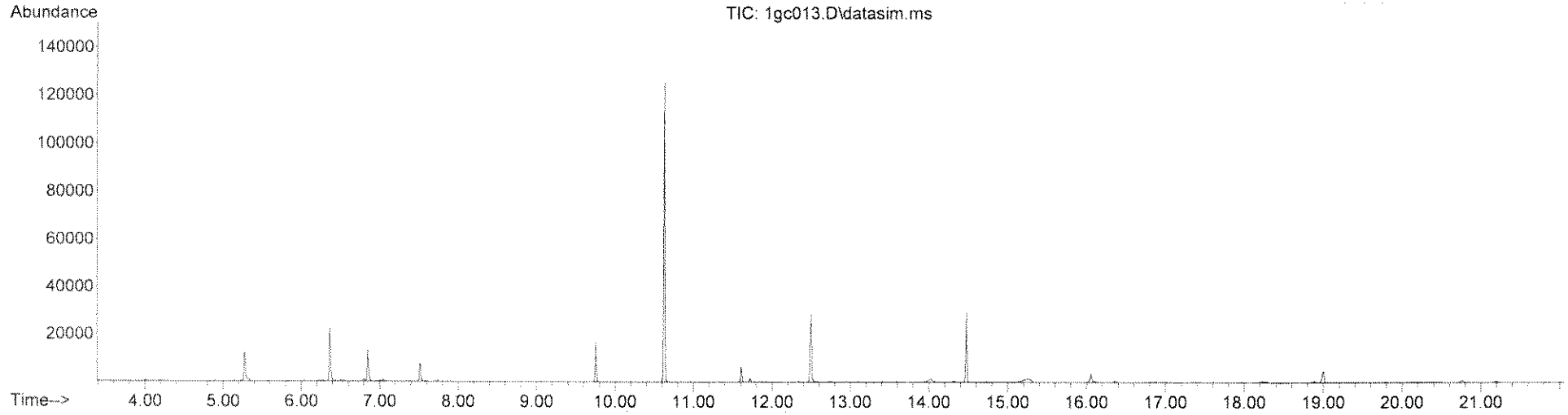
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 14:33:46 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\TICS.M
Title : TIC SEARCH

Signal : TIC: 1gc013.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.107	69	73	79	rBV	60603	91875	1.81%	0.235%
2	5.147	175	177	180	rBV2	37295	55999	1.11%	0.143%
3	5.277	187	190	193	rBV	1170561	1385514	27.35%	3.547%
4	5.827	242	245	250	rBV	160886	213933	4.22%	0.548%
5	6.366	296	299	309	rVB	1269640	1570767	31.01%	4.022%
6	6.846	344	347	352	rBV	2905003	3337447	65.88%	8.545%
7	7.046	364	367	372	rVB	141096	195450	3.86%	0.500%
8	7.516	411	414	417	rBV	1256475	1349450	26.64%	3.455%
9	8.425	504	508	510	rBV	3622164	4430850	87.47%	11.344%
10	9.756	648	651	653	rBV	2578741	2847559	56.21%	7.291%
11	10.622	741	744	747	rBV	4690395	5065688	100.00%	12.970%
12	11.614	845	848	851	rBV	1914362	2097000	41.40%	5.369%
13	12.495	927	930	933	rBV	4760746	4876014	96.26%	12.484%
14	14.018	1054	1067	1075	rBV	59445	362209	7.15%	0.927%
15	14.480	1109	1113	1115	rBV	3831185	4733119	93.43%	12.118%
16	14.731	1135	1138	1145	rVB2	39931	93931	1.85%	0.240%
17	15.213	1177	1186	1188	rBV2	73339	246158	4.86%	0.630%
18	15.253	1188	1190	1206	rVB	85141	381007	7.52%	0.975%
19	16.063	1259	1264	1267	rBV	1835908	3041847	60.05%	7.788%
20	16.118	1267	1269	1281	rVB3	57683	176983	3.49%	0.453%
21	16.681	1311	1320	1321	rBV8	20992	72421	1.43%	0.185%
22	17.970	1429	1437	1447	rVB3	38605	167067	3.30%	0.428%
23	18.998	1551	1557	1565	rBV	1233102	2099465	41.44%	5.375%
24	19.727	1637	1643	1649	rVV5	30433	104613	2.07%	0.268%
25	19.803	1649	1652	1658	rVB4	35954	61864	1.22%	0.158%

Sum of corrected areas: 39058230

Signal : TIC: 1gc013.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

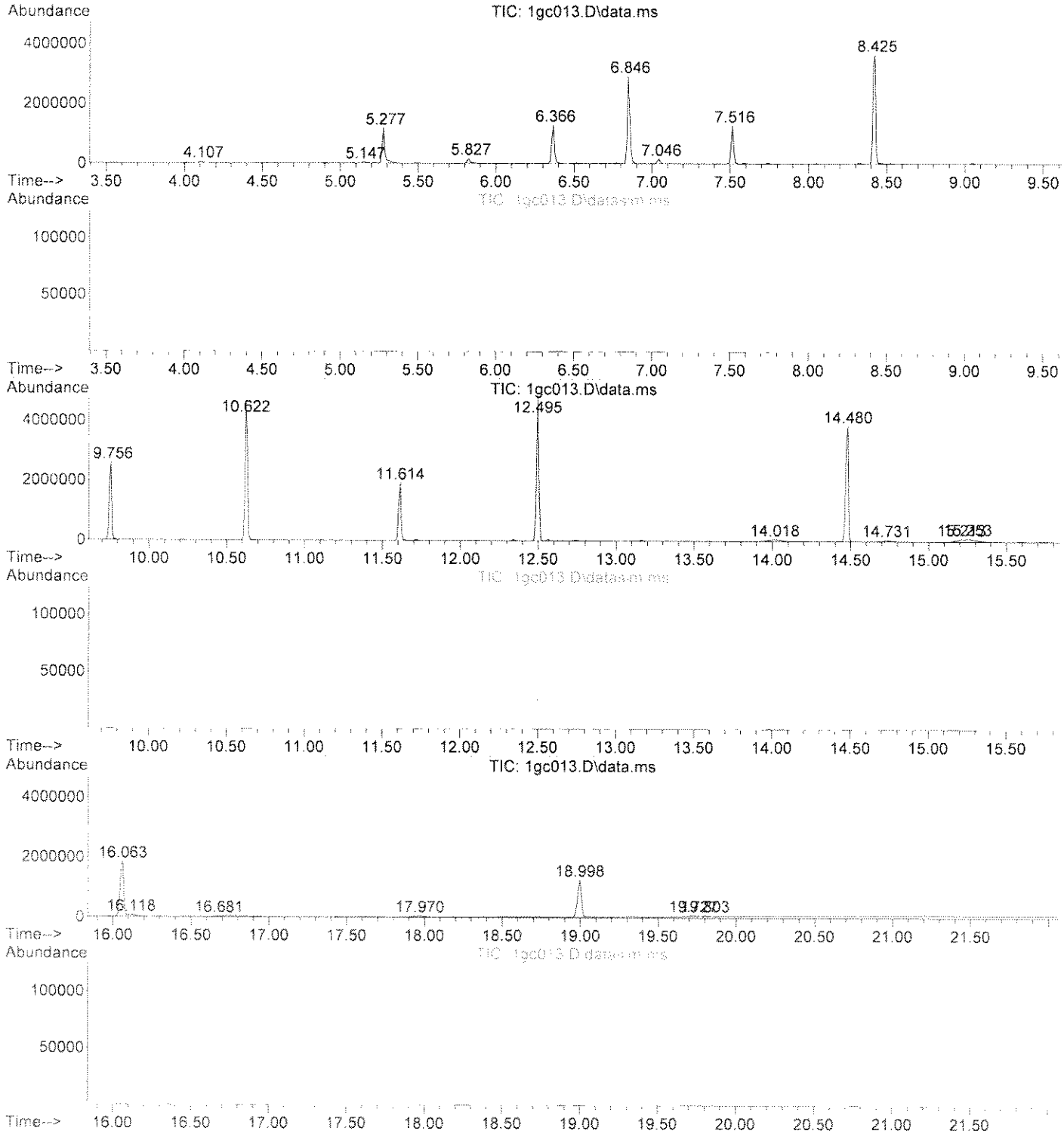
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07re1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07rel
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.253	5.01	381007	CHRYSENE-D12	16.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5,8,11-Tetraoxatetradecan-13-o...	264	C13H28O5	020324-34-9	39
2	Silane, hexyl-	116	C6H16Si	001072-14-6	38
3	Hexane, 1-ethoxy-	130	C8H18O	005756-43-4	38
4	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	38
5	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	38

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc013.D
Acq On : 8 Jul 2013 12:42
Operator : jfi
Sample : a303499-07rel
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\TICS.M
Quant Title : TIC SEARCH

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
unknown	15.253	5.0		381007	5	16.063	3041850	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc014.D
Acq On : 8 Jul 2013 13:10
Operator : jfi
Sample : a303499-14rel@5x
Misc : 5x
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 13:36:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	479390	40.00	ug/mL	-0.02
32) NAPHTHALENE-d8	8.425	136	1972377	40.00	ug/mL	-0.02
57) ACENAPHTHENE-d10	10.622	164	1131185	40.00	ug/mL	-0.03
93) PHENANTHRENE-d10	12.495	188	1876276	40.00	ug/mL	-0.02
124) CHRYSENE-d12	16.063	240	1229951	40.00	ug/mL	-0.03
137) PERYLENE-d12	18.998	264	529097	40.00	ug/mL	-0.04
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.267	112	85468	4.52	ug/mL	-0.02
Spiked Amount 100.000			Recovery	=	4.52%	
11) Phenol -D5 (acid surr)	6.356	99	128560	5.53	ug/mL	-0.03
Spiked Amount 100.000			Recovery	=	5.53%	
33) Nitrobenzene -D5 (b/n ...	7.516	82	103160	4.47	ug/mL	-0.03
Spiked Amount 100.000			Recovery	=	4.47%	
61) 2-Fluorobiphenyl (b/n ...	9.747	172	201014	4.76	ug/mL	-0.03
Spiked Amount 100.000			Recovery	=	4.76%	
91) 2,4,6-Tribromophenol (...	11.614	330	30225	6.23	ug/mL	-0.02
Spiked Amount 100.000			Recovery	=	6.23%	
120) Terphenyl -D14 (b/n surr)	14.470	244	209123	7.26	ug/mL	-0.03
Spiked Amount 100.000			Recovery	=	7.26%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.628	74	253	N.D.		
3) Pyridine	3.728	79	824	N.D.		
4) 2-Picoline	0.000		0	N.D.		
5) N-Nitrosomethylethylamine	4.777	88	84	N.D.		
6) Methyl methanesulfonate	0.000		0	N.D.		
8) 2-Fluorophenol	5.267	112	85468	4.523	ug/mL	94
9) N-Nitrosodiethylamine	5.547	102	459	N.D.		
10) Ethyl methanesulfonate	5.907	79	3687	N.D.		
12) Phenol -D5	6.356	99	128560	5.528	ug/mL	88
13) Pentachloroethane	6.506	167	437	N.D.		
14) aniline	6.456	93	85	N.D.		
15) Phenol	6.376	94	1090	N.D.		
16) Bis(2-chloroethyl)ether	6.496	93	563	N.D.		
17) 2-Chlorophenol	6.596	128	290	N.D.		
18) 1,3-Dichlorobenzene	6.786	146	184	N.D.		
19) 1,4-Dichlorobenzene	6.786	146	184	N.D.		
20) Benzyl Alcohol	6.996	108	174	N.D.		
21) 1,2-Dichlorobenzene	7.056	146	360	N.D.		
22) 2-Methylphenol	7.116	107	366	N.D.		
23) Bis(2-chloroisopropyl)...	6.996	45	343	N.D.		
24) Acetophenone	7.326	105	13958	N.D.		
25) 3 & 4-Methylphenol	7.296	108	253	N.D.		
26) N-Nitrosodi-n-propylamine	7.316	70	228	N.D.		
27) N-Nitrosopyrrolidine	0.000		0	N.D.		
28) N-Nitrosomorpholine	7.256	56	81	N.D.		
29) Hexachloroethane	7.476	117	94	N.D.		
30) o-Toluidine	7.326	106	1083	N.D.		
31) a,a-Dimethylphenethyla...	0.000		0	N.D.		
34) Nitrobenzene -D5	7.516	82	103160	4.470	ug/mL	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc014.D
Acq On : 8 Jul 2013 13:10
Operator : jfi
Sample : a303499-14re1@5x
Misc : 5x
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 13:36:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.536	77	892	N.D.	
36) N-Nitrosopiperidine	0.000		0	N.D.	
37) Isophorone	7.826	82	1026	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	7.956	122	270	N.D.	
40) Bis(2-chloroethoxy)met...	8.099	93	1185	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	8.341	180	355	N.D.	
45) Naphthalene	8.443	128	2604	N.D.	
46) 4-Chloroaniline	8.453	127	146	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.928	84	82	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	0.000		0	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.309	142	1241	N.D.	
55) 1-Methylnaphthalene	9.430	142	1485	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	9.514	216	107	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.747	172	201014	4.762 ug/mL	99
63) Isosafrole	9.914	162	652	N.D.	
64) 2-Chloronaphthalene	9.914	162	652	N.D.	
65) 2-Nitroaniline	9.905	65	550	N.D.	
66) 1,4-Naphthoquinone	10.194	158	80	N.D.	
67) Dimethyl phthalate	10.240	163	159	N.D.	
68) m-Dinitrobenzene	10.268	168	71	N.D.	
69) 2,6-Dinitrotoluene	10.287	165	174	N.D.	
70) Acenaphthylene	10.445	152	539	N.D.	
71) 3-Nitroaniline	10.622	138	79	N.D.	
72) Acenaphthene	10.660	154	6502	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.725	109	84	N.D.	
76) Dibenzofuran	10.874	168	4629	N.D.	
77) 2,4-Dinitrotoluene	10.809	165	195	N.D.	
78) 2-Naphthylamine	10.809	143	125	N.D.	
79) 1-Naphthylamine	0.000		0	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.117	149	18642	N.D.	
82) 4-Chlorophenyl phenyl ...	11.285	204	72	N.D.	
83) Fluorene	11.313	166	7349	N.D.	
84) Thionazin	11.219	107	70	N.D.	
85) 5-Nitro-o-toluidine	11.229	152	87	N.D.	
86) 4-Nitroaniline	11.323	138	83	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.363	169	155	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc014.D
Acq On : 8 Jul 2013 13:10
Operator : jfi
Sample : a303499-14re1@5x
Misc : 5x
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 13:36:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.363	169	155	N.D.	
90)	DPH (as Azobenzene)	11.503	182	1797	N.D.	
92)	2,4,6-Tribromophenol	11.614	330	30225	6.232 ug/mL	97
94)	Sulfotepp	11.604	97	272	N.D.	
95)	Diallate	11.724	86	251	N.D.	
96)	Phorate	11.664	75	76	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	11.996	87	99	N.D.	
102)	4-Aminobiphenyl	12.287	169	88	N.D.	
103)	Pentachlorophenol	12.264	266	89	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	12.114	237	107	N.D.	
106)	Phenanthrene	12.529	178	91852	1.705 ug/mL	98
107)	Disulfoton	0.000		0	N.D. d	
108)	Anthracene	12.587	178	12865	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.772	167	8731	N.D.	
111)	Methyl Parathion	12.945	109	501	N.D.	
112)	Di-n-butyl phthalate	13.164	149	2344	N.D.	
113)	Parathion	13.430	109	1072	N.D.	
114)	4-Nitroquinoline-1-oxide	13.418	190	292	N.D.	
115)	Methapyrilene	13.510	97	932	N.D.	
116)	Isodrin	13.897	193	466	N.D.	
117)	Fluoranthene	14.028	202	78602	2.016 ug/mL	92
118)	Benzidine	13.847	184	192	N.D.	
119)	Pyrene	14.319	202	62482	1.536 ug/mL	92
121)	Terphenyl -D14	14.470	244	209123	7.265 ug/mL	100
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.083	149	1569	N.D.	
125)	p-(dimethylamino)azobe...	14.781	225	129	N.D.	
126)	Chlorobenzilate	14.630	251	90	N.D.	
127)	Famphur	15.699	218	817	No Calib #	
128)	3,3'-Dimethylbenzidine	15.002	212	116	N.D.	
129)	Kepone	19.608	272	198	No Calib #	
130)	2-Acetylaminofluorene	15.523	181	334	N.D.	
131)	3,3'-Dichlorobenzidine	16.041	252	84	N.D.	
132)	Benzo(a)anthracene	16.041	228	29970	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.975	149	19487	N.D.	
134)	Chrysene	16.096	228	27999	N.D.	
135)	Di-n-octyl phthalate	17.243	149	1159	N.D.	
136)	Hexachlorophene	18.989	196	348	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.209	256	245	N.D.	
139)	Benzo(b)fluoranthene	18.218	252	21773	1.155 ug/mL	87
140)	Benzo(k)fluoranthene	0.000		0	N.D. d	
141)	Benzo(a)pyrene	18.879	252	11834	N.D.	
142)	3-Methylcholanthrene	19.566	268	278	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.749	276	5205	N.D.	
144)	Dibenzo(a,h)anthracene	20.758	278	1893	N.D.	
145)	Benzo(g,h,i)perylene	21.187	276	4047	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc014.D
Acq On : 8 Jul 2013 13:10
Operator : jfi
Sample : a303499-14re1@5x
Misc : 5x
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 13:36:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

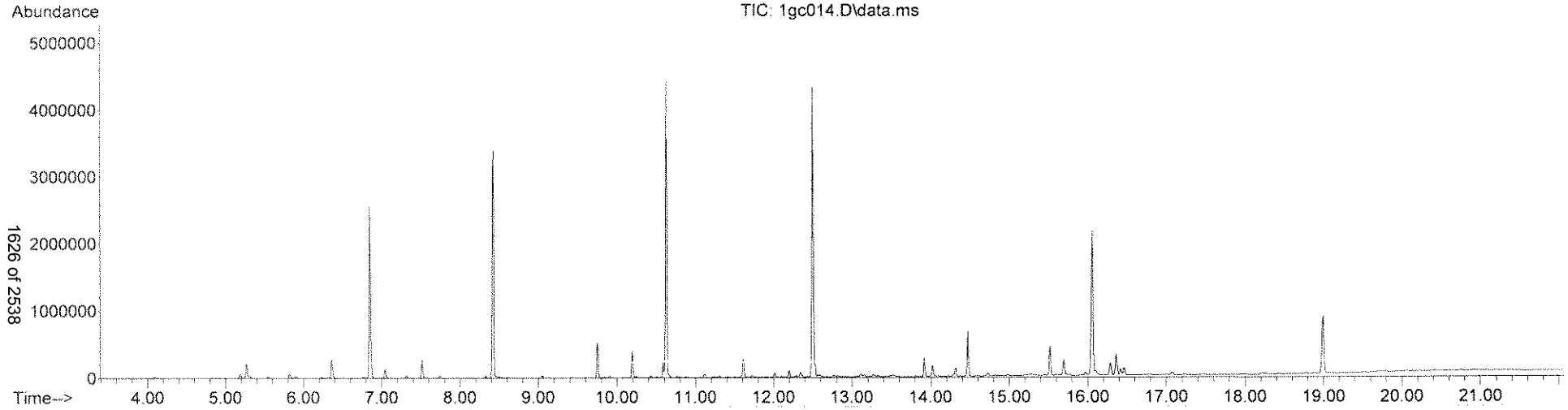
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

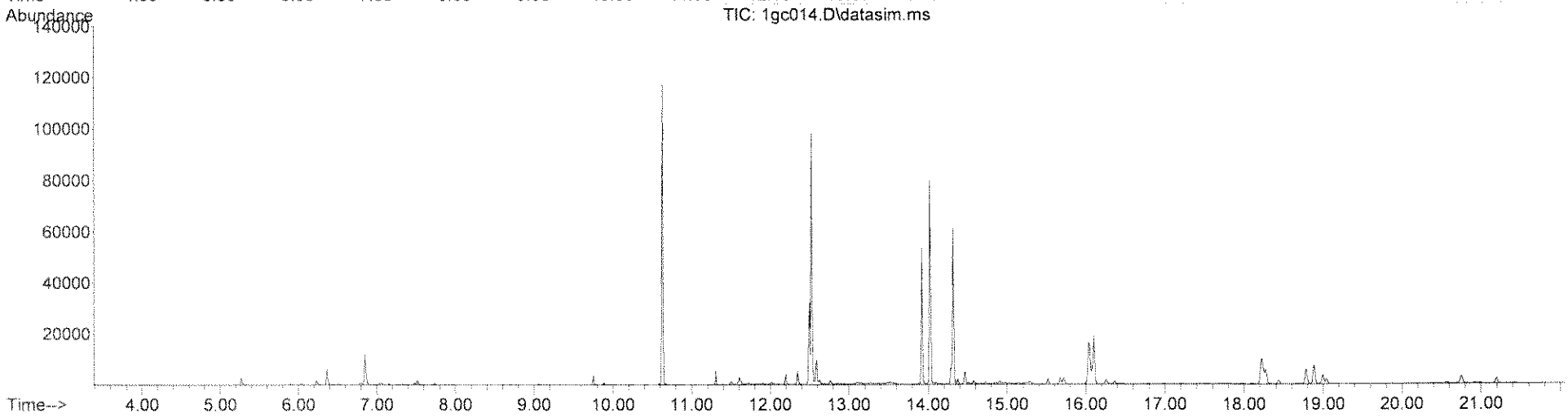
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc014.D
Acq On : 8 Jul 2013 13:10
Operator : jfi
Sample : a303499-14rel@5x
Misc : 5x
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 13:36:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc014.D
Acq On : 8 Jul 2013 13:10
Operator : jfi
Sample : a303499-14re1@5x
Misc : 5x
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 14:33:48 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

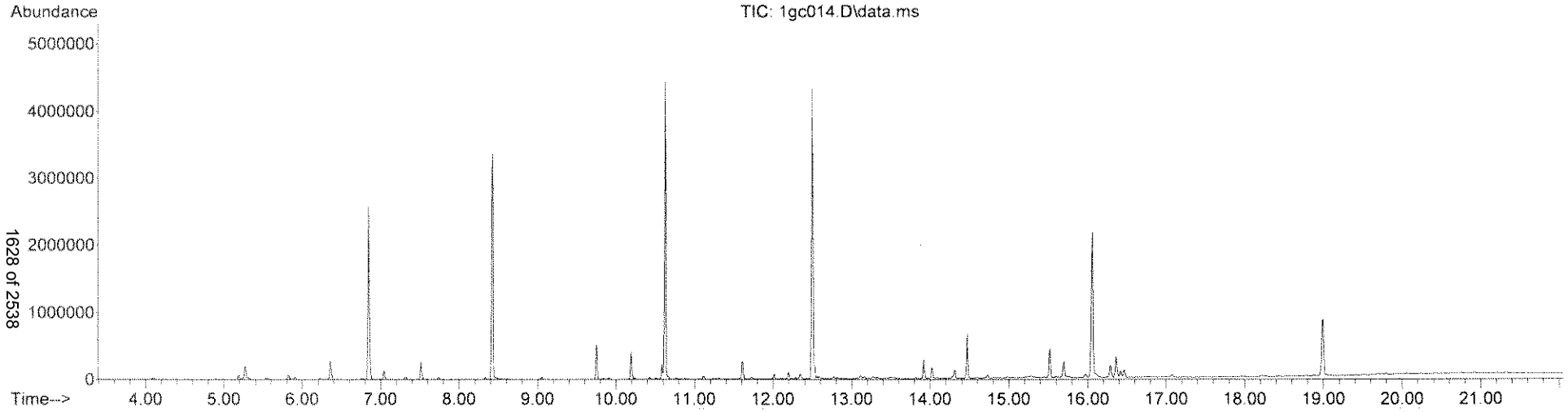
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	479390	40.00	ug/mL	-0.04
3) NAPHTHALENE-d8	8.425	136	1972377	40.00	ug/mL	-0.04
5) ACENAPHTHENE-d10	10.622	164	1131185	40.00	ug/mL	-0.05
8) PHENANTHRENE-d10	12.495	188	1876276	40.00	ug/mL	-0.05
9) CHRYSENE-d12	16.063	240	1229951	40.00	ug/mL	-0.07
10) PERYLENE-d12	18.998	264	529097	40.00	ug/mL	-0.08
Target Compounds						Qvalue
2) Benzaldehyde	6.316	106	2980	N.D.		
4) Caprolactam	8.881	113	301	N.D.		
6) 1,1'-Biphenyl	9.877	154	844	N.D.		
7) Atrazine	0.000		0	N.D.		

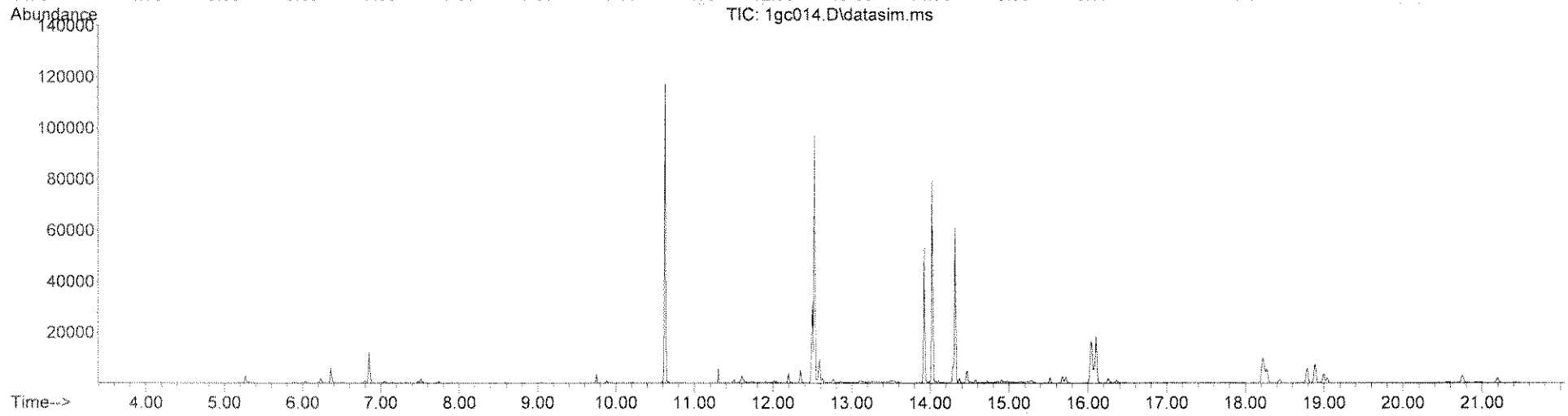
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc014.D
Acq On : 8 Jul 2013 13:10
Operator : jfi
Sample : a303499-14re1@5x
Misc : 5x
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 14:33:48 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc015.D
Acq On : 8 Jul 2013 13:39
Operator : jfi
Sample : a303499-17re1@5x
Misc : 5x
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 14:04:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.846	152	394994	40.00 ug/mL	-0.02
32) NAPHTHALENE-d8	8.425	136	1604805	40.00 ug/mL	-0.02
57) ACENAPHTHENE-d10	10.622	164	928527	40.00 ug/mL	-0.03
93) PHENANTHRENE-d10	12.494	188	1522489	40.00 ug/mL	-0.02
124) CHRYSENE-d12	16.063	240	916916	40.00 ug/mL	-0.03
137) PERYLENE-d12	18.997	264	469792	40.00 ug/mL	-0.04
System Monitoring Compounds					
7) 2-Fluorophenol (acid s...	5.267	112	83527	5.36 ug/mL	-0.02
Spiked Amount 100.000			Recovery	= 5.36%	
11) Phenol -D5 (acid surr)	6.356	99	118607	6.19 ug/mL	-0.03
Spiked Amount 100.000			Recovery	= 6.19%	
33) Nitrobenzene -D5 (b/n ...	7.516	82	87118	4.64 ug/mL	-0.03
Spiked Amount 100.000			Recovery	= 4.64%	
61) 2-Fluorobiphenyl (b/n ...	9.747	172	126160	3.64 ug/mL	-0.03
Spiked Amount 100.000			Recovery	= 3.64%	
91) 2,4,6-Tribromophenol (...	11.614	330	24578	6.17 ug/mL	-0.02
Spiked Amount 100.000			Recovery	= 6.17%	
120) Terphenyl -D14 (b/n surr)	14.469	244	143358	6.14 ug/mL	-0.03
Spiked Amount 100.000			Recovery	= 6.14%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.587	74	273	N.D.	
3) Pyridine	3.707	79	678	N.D.	
4) 2-Picoline	4.547	93	82	N.D.	
5) N-Nitrosomethylethylamine	0.000		0	N.D.	
6) Methyl methanesulfonate	0.000		0	N.D.	
8) 2-Fluorophenol	5.267	112	83527	5.364 ug/mL	91
9) N-Nitrosodiethylamine	0.000		0	N.D.	
10) Ethyl methanesulfonate	5.726	79	81	N.D.	
12) Phenol -D5	6.356	99	118607	6.189 ug/mL	87
13) Pentachloroethane	6.506	167	771	N.D.	
14) aniline	6.376	93	201	N.D.	
15) Phenol	0.000		0	N.D.	
16) Bis(2-chloroethyl)ether	6.376	93	201	N.D.	
17) 2-Chlorophenol	6.506	128	80	N.D.	
18) 1,3-Dichlorobenzene	6.846	146	135	N.D.	
19) 1,4-Dichlorobenzene	6.846	146	135	N.D.	
20) Benzyl Alcohol	7.046	108	325	N.D.	
21) 1,2-Dichlorobenzene	0.000		0	N.D.	
22) 2-Methylphenol	0.000		0	N.D.	
23) Bis(2-chloroisopropyl)...	0.000		0	N.D.	
24) Acetophenone	7.316	105	333	N.D.	
25) 3 & 4-Methylphenol	7.296	108	102	N.D.	
26) N-Nitrosodi-n-propylamine	7.186	70	75	N.D.	
27) N-Nitrosopyrrolidine	0.000		0	N.D.	
28) N-Nitrosomorpholine	7.276	56	80	N.D.	
29) Hexachloroethane	0.000		0	N.D.	
30) o-Toluidine	7.326	106	149	N.D.	
31) a,a-Dimethylphenethyla...	0.000		0	N.D.	
34) Nitrobenzene -D5	7.516	82	87118	4.639 ug/mL	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc015.D
Acq On : 8 Jul 2013 13:39
Operator : jfi
Sample : a303499-17re1@5x
Misc : 5x
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 14:04:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Nitrobenzene	7.516	77	405	N.D.	
36) N-Nitrosopiperidine	0.000		0	N.D.	
37) Isophorone	7.796	82	406	N.D.	
38) 2-Nitrophenol	0.000		0	N.D.	
39) 2,4-Dimethylphenol	8.089	122	323	N.D.	
40) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
41) o,o,o-Triethyl Phospho...	0.000		0	N.D.	
42) Benzoic Acid	0.000		0	N.D.	
43) 2,4-Dichlorophenol	0.000		0	N.D.	
44) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
45) Naphthalene	8.443	128	1026	N.D.	
46) 4-Chloroaniline	8.452	127	73	N.D.	
47) 2,6-Dichlorophenol	0.000		0	N.D.	
48) Hexachloropropene	0.000		0	N.D.	
49) Hexachlorobutadiene	0.000		0	N.D.	
50) N-Nitrosodi-n-Butylamine	8.955	84	124	N.D.	
51) p-Phenylenediamine	0.000		0	N.D.	
52) 4-Chloro-3-methylphenol	9.114	107	82	N.D.	
53) Safrole	0.000		0	N.D.	
54) 2-Methylnaphthalene	9.300	142	274	N.D.	
55) 1-Methylnaphthalene	9.300	142	274	N.D.	
56) Hexachlorocyclopentadiene	0.000		0	N.D.	
58) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
59) 2,4,6-Trichlorophenol	0.000		0	N.D.	
60) 2,4,5-Trichlorophenol	0.000		0	N.D.	
62) 2-Fluorobiphenyl	9.747	172	126160	3.641 ug/mL	100
63) Isosafrole	0.000		0	N.D.	
64) 2-Chloronaphthalene	0.000		0	N.D.	
65) 2-Nitroaniline	10.091	65	86	N.D.	
66) 1,4-Naphthoquinone	0.000		0	N.D.	
67) Dimethyl phthalate	10.231	163	110	N.D.	
68) m-Dinitrobenzene	0.000		0	N.D.	
69) 2,6-Dinitrotoluene	0.000		0	N.D.	
70) Acenaphthylene	10.445	152	209	N.D.	
71) 3-Nitroaniline	10.622	138	155	N.D.	
72) Acenaphthene	10.659	154	416	N.D.	
73) 2,4-Dinitrophenol	0.000		0	N.D.	
74) Pentachlorobenzene	0.000		0	N.D.	
75) 4-Nitrophenol	10.771	109	126	N.D.	
76) Dibenzofuran	10.874	168	369	N.D.	
77) 2,4-Dinitrotoluene	0.000		0	N.D.	
78) 2-Naphthylamine	10.893	143	72	N.D.	
79) 1-Naphthylamine	10.893	143	72	N.D.	
80) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
81) Diethyl phthalate	11.116	149	183	N.D.	
82) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
83) Fluorene	11.312	166	595	N.D.	
84) Thionazin	11.154	107	77	N.D.	
85) 5-Nitro-o-toluidine	0.000		0	N.D.	
86) 4-Nitroaniline	0.000		0	N.D.	
87) 2-Methyl-4,6-dinitroph...	0.000		0	N.D.	
88) Diphenylamine/N-Nitros...	11.443	169	77	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc015.D
Acq On : 8 Jul 2013 13:39
Operator : jfi
Sample : a303499-17re1@5x
Misc : 5x
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 14:04:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.443	169	77	N.D.	
90)	DPH (as Azobenzene)	11.503	182	235	N.D.	
92)	2,4,6-Tribromophenol	11.614	330	24578	6.174 ug/mL	97
94)	Sulfotepp	11.523	97	79	N.D.	
95)	Diallate	0.000		0	N.D.	
96)	Phorate	0.000		0	N.D.	
97)	4-Bromophenylphenyl ether	0.000		0	N.D.	
98)	Phenacetin	0.000		0	N.D.	
99)	1,3,5-Trinitrobenzene	0.000		0	N.D.	
100)	Hexachlorobenzene	0.000		0	N.D.	
101)	Dimethoate	12.035	87	211	N.D.	
102)	4-Aminobiphenyl	12.286	169	96	N.D.	
103)	Pentachlorophenol	0.000		0	N.D.	
104)	Pronamide	0.000		0	N.D.	
105)	Pentachloronitrobenzene	0.000		0	N.D.	
106)	Phenanthrene	12.529	178	9673	N.D.	
107)	Disulfoton	12.587	88	368	N.D.	
108)	Anthracene	12.529	178	9673	N.D.	
109)	Dinoseb	0.000		0	N.D.	
110)	Carbazole	12.771	167	623	N.D.	
111)	Methyl Parathion	12.956	109	141	N.D.	
112)	Di-n-butyl phthalate	13.164	149	3142	N.D.	
113)	Parathion	13.418	109	149	N.D.	
114)	4-Nitroquinoline-1-oxide	13.475	190	190	N.D.	
115)	Methapyrilene	13.533	97	722	N.D.	
116)	Isodrin	13.857	193	79	N.D.	
117)	Fluoranthene	14.027	202	10141	N.D.	
118)	Benzidine	13.796	184	78	N.D.	
119)	Pyrene	14.319	202	9036	N.D.	
121)	Terphenyl -D14	14.469	244	143358	6.137 ug/mL	98
122)	Aramite	0.000		0	N.D. d	
123)	Benzylbutyl phthalate	15.092	149	888	N.D.	
125)	p-(dimethylamino)azobe...	14.781	225	116	N.D.	
126)	Chlorobenzilate	0.000		0	N.D.	
127)	Famphur	15.611	218	181	No Calib #	
128)	3,3'-Dimethylbenzidine	0.000		0	N.D.	
129)	Kepone	0.000		0	N.D.	
130)	2-Acetylaminofluorene	0.000		0	N.D.	
131)	3,3'-Dichlorobenzidine	16.008	252	85	N.D.	
132)	Benzo(a)anthracene	16.041	228	8978	N.D.	
133)	Bis(2-ethylhexyl)phtha...	15.975	149	4938	N.D.	
134)	Chrysene	16.096	228	4090	N.D.	
135)	Di-n-octyl phthalate	17.232	149	1116	N.D.	
136)	Hexachlorophene	18.997	196	215	No Calib #	
138)	7,12-Dimethylbenz(a)an...	18.065	256	72	N.D.	
139)	Benzo(b)fluoranthene	18.218	252	8433	N.D.	
140)	Benzo(k)fluoranthene	18.218	252	8433	N.D.	
141)	Benzo(a)pyrene	18.879	252	4328	N.D.	
142)	3-Methylcholanthrene	19.506	268	84	N.D.	
143)	Indeno(1,2,3-cd)pyrene	20.749	276	2030	N.D.	
144)	Dibenzo(a,h)anthracene	20.758	278	1104	N.D.	
145)	Benzo(g,h,i)perylene	21.196	276	1941	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc015.D
Acq On : 8 Jul 2013 13:39
Operator : jfi
Sample : a303499-17re1@5x
Misc : 5x
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 14:04:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration

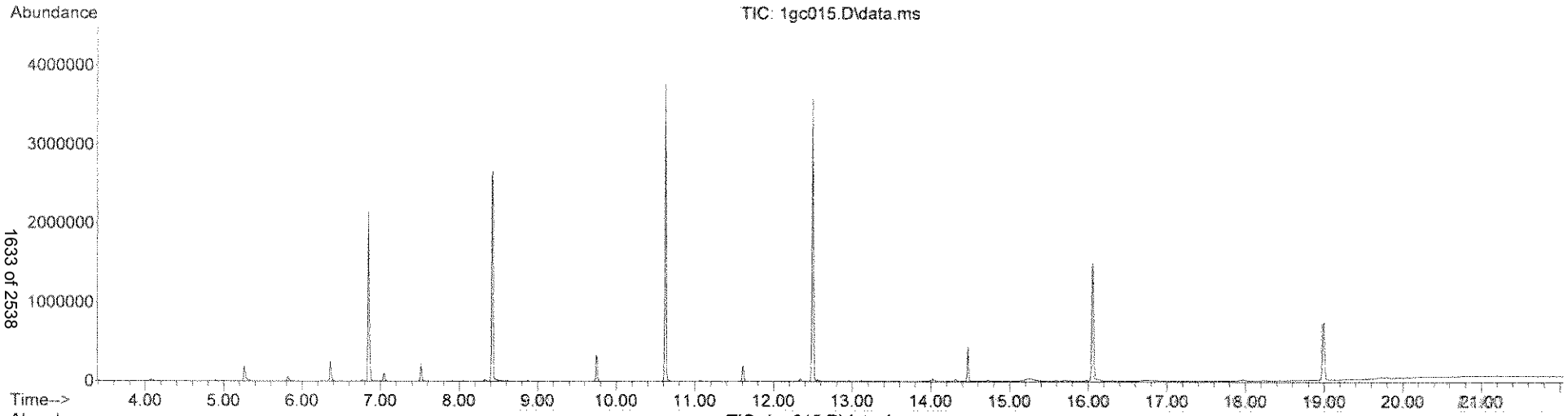
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

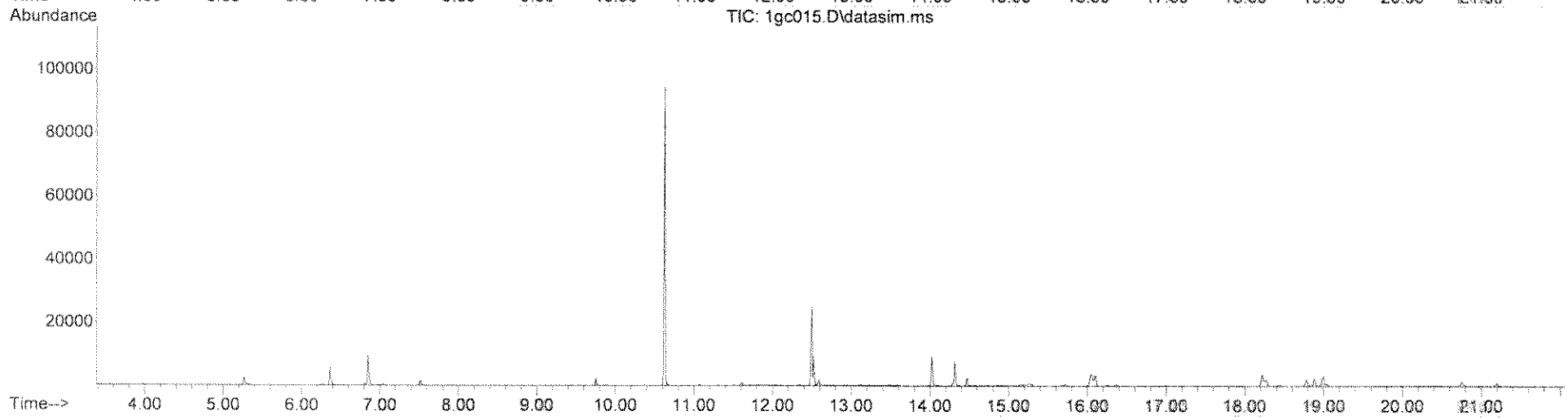
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc015.D
Acq On : 8 Jul 2013 13:39
Operator : jfi
Sample : a303499-17rel@5x
Misc : 5x
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 14:04:02 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuSun Jul 07 08:03:42 2013
QLast Update : Sun Jul 07 08:03:42 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc015.D
Acq On : 8 Jul 2013 13:39
Operator : jfi
Sample : a303499-17re1@5x
Misc : 5x
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 14:33:50 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration

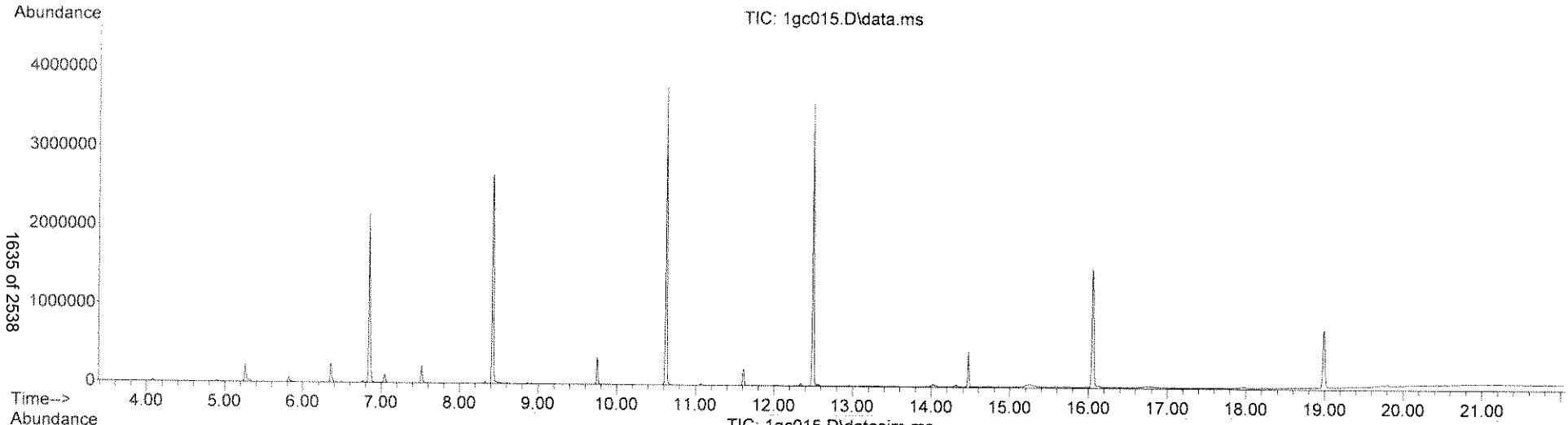
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.846	152	394994	40.00 ug/mL	-0.04
3) NAPHTHALENE-d8	8.425	136	1604349	40.00 ug/mL	-0.04
5) ACENAPHTHENE-d10	10.622	164	928527	40.00 ug/mL	-0.05
8) PHENANTHRENE-d10	12.494	188	1522489	40.00 ug/mL	-0.05
9) CHRYSENE-d12	16.063	240	916916	40.00 ug/mL	-0.07
10) PERYLENE-d12	18.997	264	469792	40.00 ug/mL	-0.08
Target Compounds					Qvalue
2) Benzaldehyde	0.000		0	N.D.	
4) Caprolactam	8.909	113	73	N.D.	
6) 1,1'-Biphenyl	9.886	154	89	N.D.	
7) Atrazine	0.000		0	N.D.	

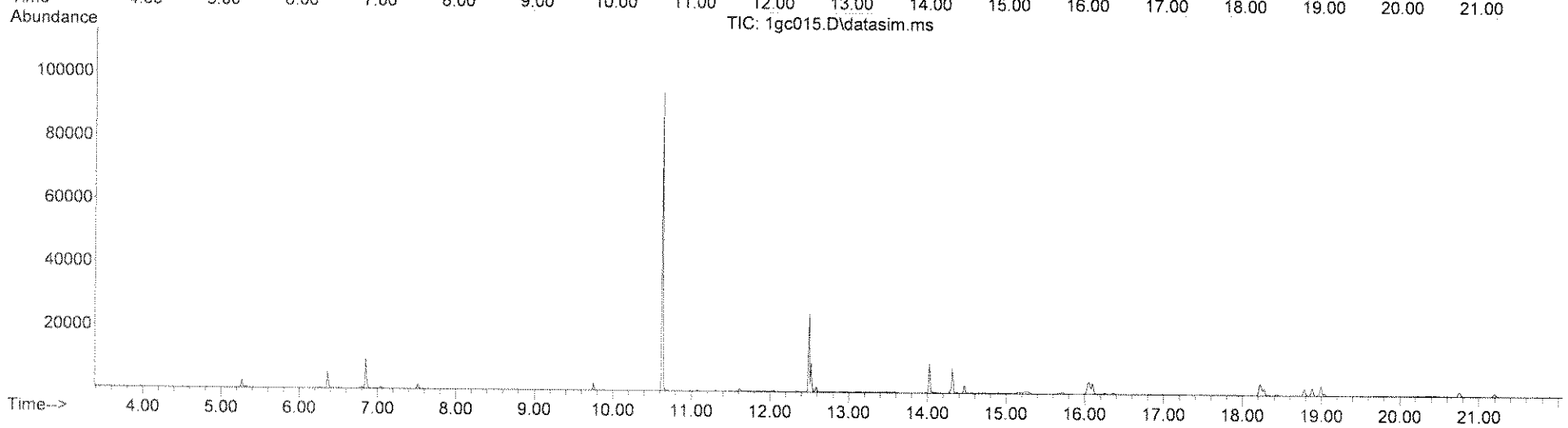
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070813\
Data File : 1gc015.D
Acq On : 8 Jul 2013 13:39
Operator : jfi
Sample : a303499-17re1@5x
Misc : 5x
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 14:33:50 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoSat Jul 06 11:54:18 2013
QLast Update : Sat Jul 06 11:54:18 2013
Response via : Initial Calibration





ANALYSIS SEQUENCE

AA24782

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/3/2013 14:27:06

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24782-TUN1	QC		1		A3C0367			
AA24782-CAL1	QC		2		A3G0014	A3B0304		TCL's
AA24782-CAL2	QC		3		A3G0015	A3B0304		
AA24782-CAL3	QC		4		A3G0016	A3B0304		
AA24782-CAL4	QC		5		A3G0018	A3B0304		
AA24782-CAL5	QC		6		A3D0410	A3B0304		
AA24782-SCV1	QC		7		A3G0019	A3B0304		

Samples Loaded By Date

Data Processed By Date

Response Factor Report OSVGCMS1

Method Path : C:\msdchem\1\METHODS\
Method File : TCL070113.M
Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010 ;MoMon Jul 01 20:22:47 2013
Last Update : Mon Jul 01 20:22:47 2013
Response Via : Initial Calibration

Calibration Files
10 =1g1008.D 20 =1g1009.D 50 =1g1010.D 80 =1g1012.D 100 =1g1013.D

		Compound	10	20	50	80	100	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD						
2)		Benzaldehyde	1.070	1.142	1.123	1.171	1.148	1.131	3.38
3)	I	NAPHTHALENE-d8	ISTD						
4)		Caprolactam	0.067	0.089	0.091	0.090	0.094	0.086	12.37
5)	I	ACENAPHTHENE-d10	ISTD						
6)		1,1'-Biphenyl	1.513	1.542	1.523	1.712	1.659	1.590	5.65
7)		Atrazine	0.307	0.322	0.361	0.361	0.354	0.341	7.34
8)	I	PHENANTHRENE-d10	ISTD						
9)	I	CHRYSENE-d12	ISTD						
10)	I	PERYLENE-d12	ISTD						

(#) = Out of Range

Z 2=%
4/4/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1008.D
Acq On : 1 Jul 2013 15:32
Operator : jfi
Sample : aa24782-cal1
Misc : a3g0014
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:58:40 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration

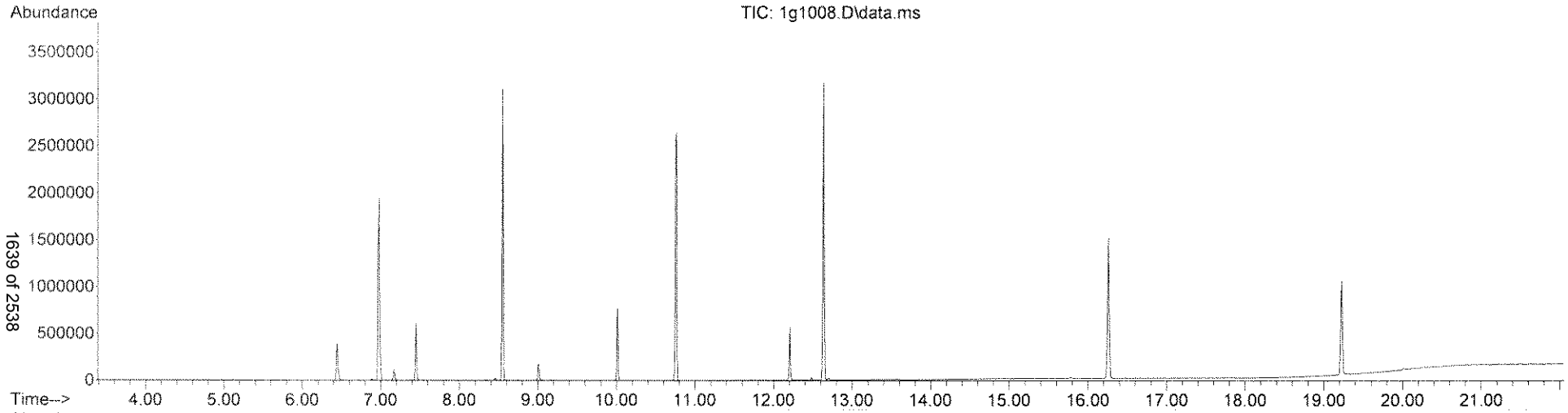
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	388422	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.546	136	1541196	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.762	164	775134	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.633	188	1276626	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.262	240	794745	40.00	ug/mL	0.00
10) PERYLENE-d12	19.227	264	566501	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.446	106	103876	9.828	ug/mL	97
4) Caprolactam	9.011	113	25982	6.819	ug/mL	97
6) 1,1'-Biphenyl	10.008	154	293276	10.979	ug/mL	96
7) Atrazine	12.206	200	59520	8.788	ug/mL	96

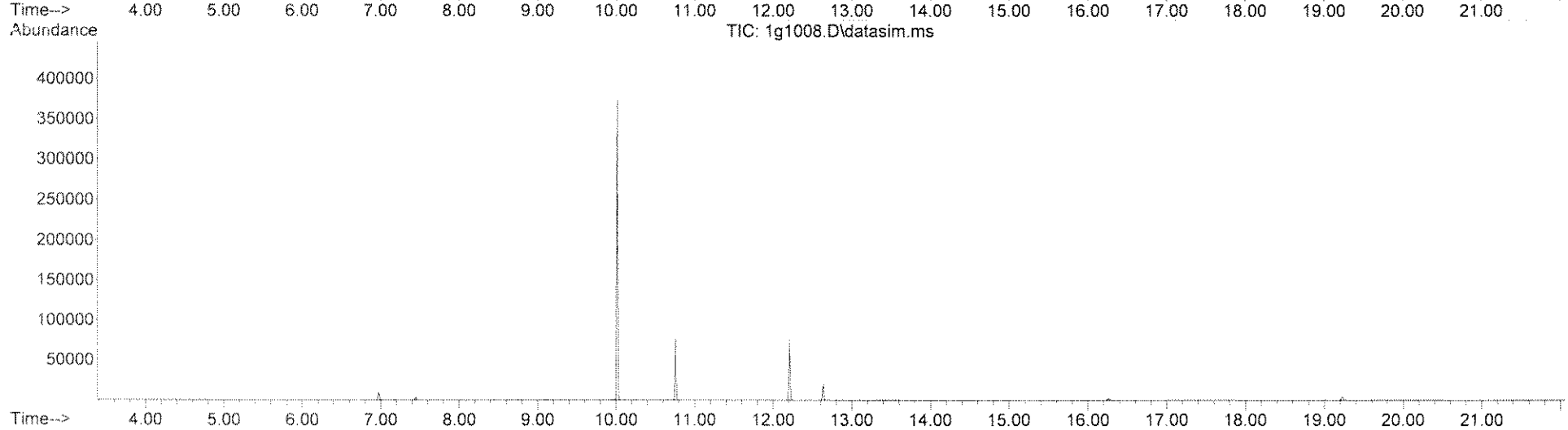
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1008.D
Acq On : 1 Jul 2013 15:32
Operator : jfi
Sample : aa24782-cal1
Misc : a3g0014
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:58:40 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1009.D
Acq On : 1 Jul 2013 16:00
Operator : jfi
Sample : aa24782-cal2
Misc : a3g0015
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 19:54:53 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration

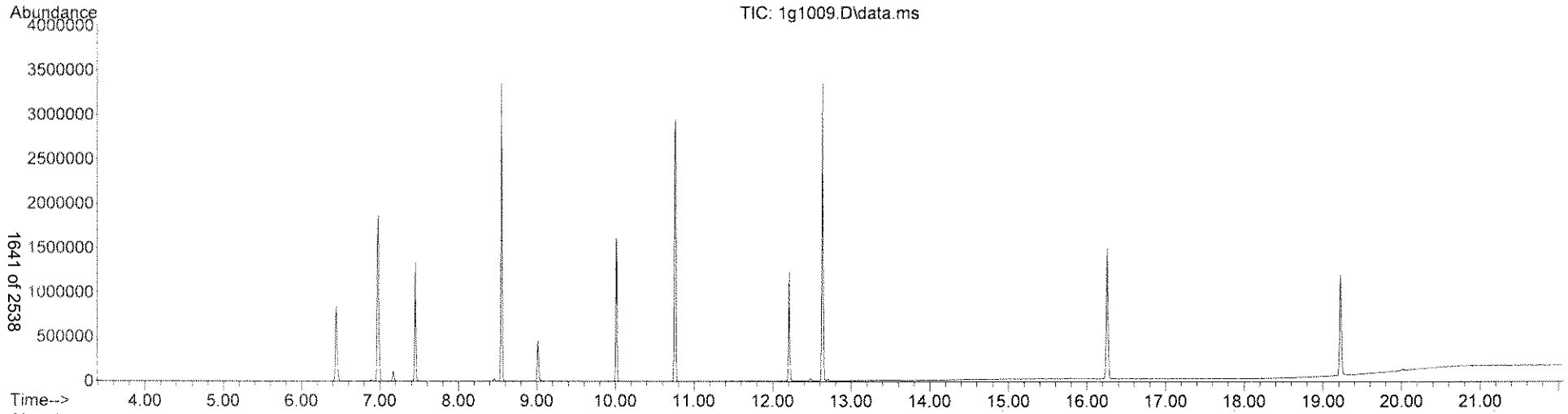
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	392190	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.546	136	1618910	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.762	164	852186	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.633	188	1332617	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.262	240	804932	40.00	ug/mL	0.00
10) PERYLENE-d12	19.226	264	637959	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.446	106	223977	20.987	ug/mL	97
4) Caprolactam	9.011	113	71852	17.954	ug/mL	97
6) 1,1'-Biphenyl	10.017	154	657122	22.376	ug/mL	97
7) Atrazine	12.206	200	137108	18.412	ug/mL	98

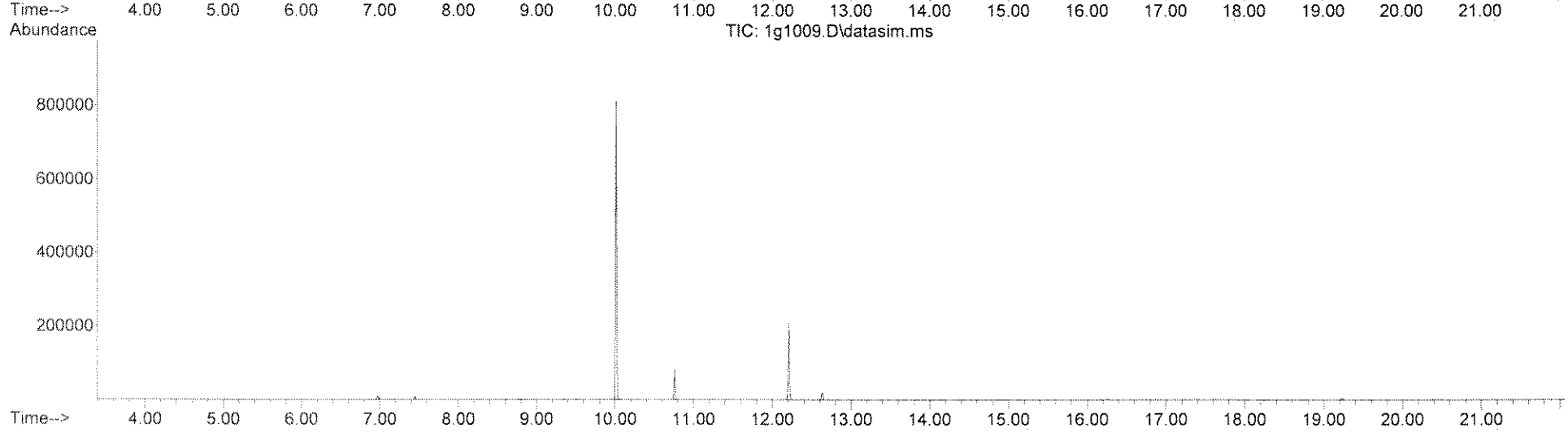
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1009.D
Acq On : 1 Jul 2013 16:00
Operator : jfi
Sample : aa24782-cal2
Misc : a3g0015
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 19:54:53 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1010.D
Acq On : 1 Jul 2013 16:29
Operator : jfi
Sample : aa24782-cal3
Misc : a3g0016@1x (Sig #1); a3g0016 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 19:54:55 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration

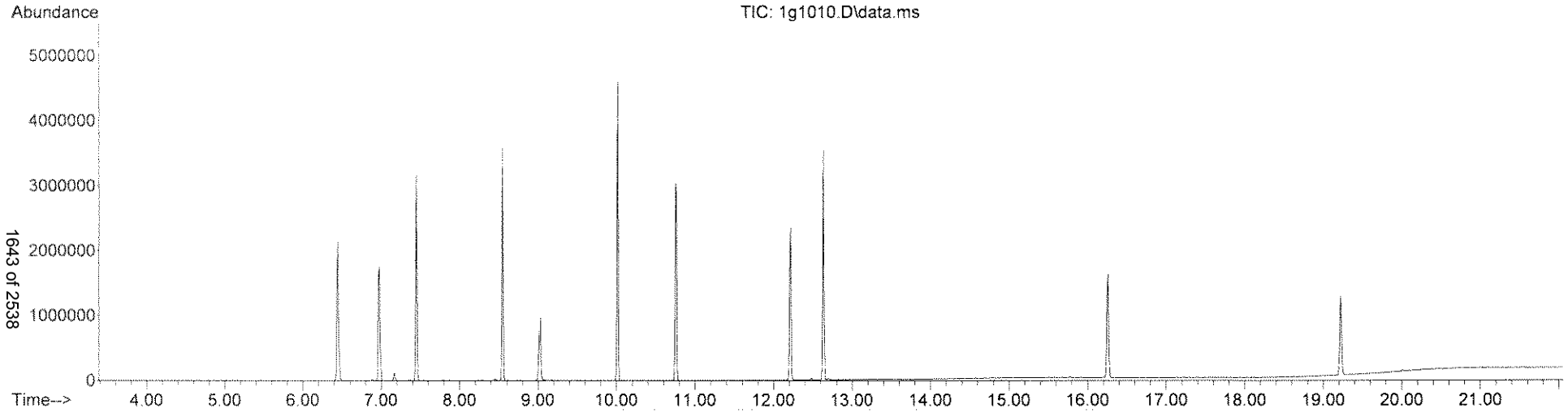
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	400927	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.546	136	1662935	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.762	164	875772	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.633	188	1415025	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.262	240	919792	40.00	ug/mL	0.00
10) PERYLENE-d12	19.227	264	702032	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.446	106	562954	51.600	ug/mL	97
4) Caprolactam	9.030	113	188755	45.915	ug/mL	97
6) 1,1'-Biphenyl	10.017	154	1667789	55.260	ug/mL	98
7) Atrazine	12.217	200	395343	51.661	ug/mL	99

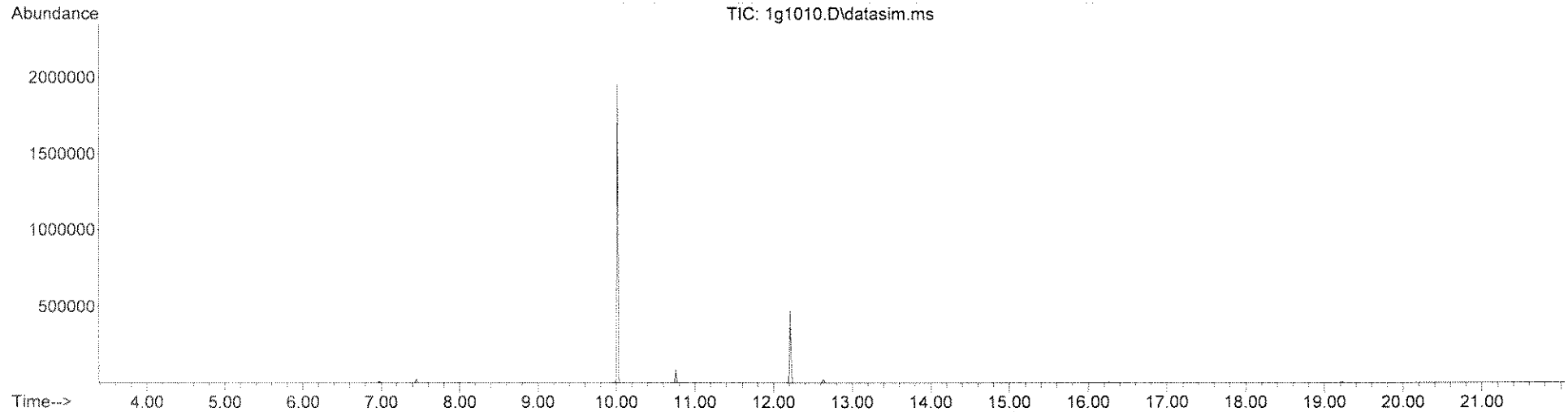
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1010.D
Acq On : 1 Jul 2013 16:29
Operator : jfi
Sample : aa24782-cal3
Misc : a3g0016@1x (Sig #1); a3g0016 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 19:54:55 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1012.D
Acq On : 1 Jul 2013 17:25
Operator : jfi
Sample : aa24782-cal4@1x (Sig #1); aa24782-cal5 (Sig #2)
Misc : a3g0018
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 19:54:59 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration

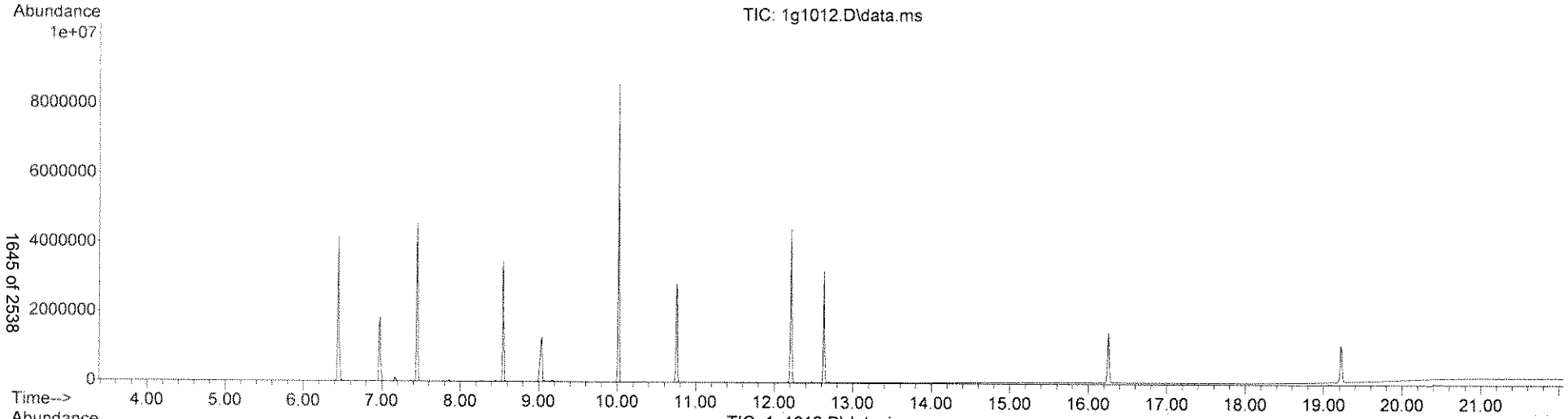
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.976	152	407647	40.00 ug/mL	0.00
3) NAPHTHALENE-d8	8.546	136	1645045	40.00 ug/mL	0.00
5) ACENAPHTHENE-d10	10.753	164	815732	40.00 ug/mL	0.00
8) PHENANTHRENE-d10	12.633	188	1269563	40.00 ug/mL	0.00
9) CHRYSENE-d12	16.261	240	825929	40.00 ug/mL	0.00
10) PERYLENE-d12	19.226	264	633245	40.00 ug/mL	0.00
Target Compounds					Qvalue
2) Benzaldehyde	6.446	106	954891	86.082 ug/mL	96
4) Caprolactam	9.039	113	296620	72.939 ug/mL	96
6) 1,1'-Biphenyl	10.017	154	2793332	99.366 ug/mL	98
7) Atrazine	12.217	200	589267	82.669 ug/mL	98

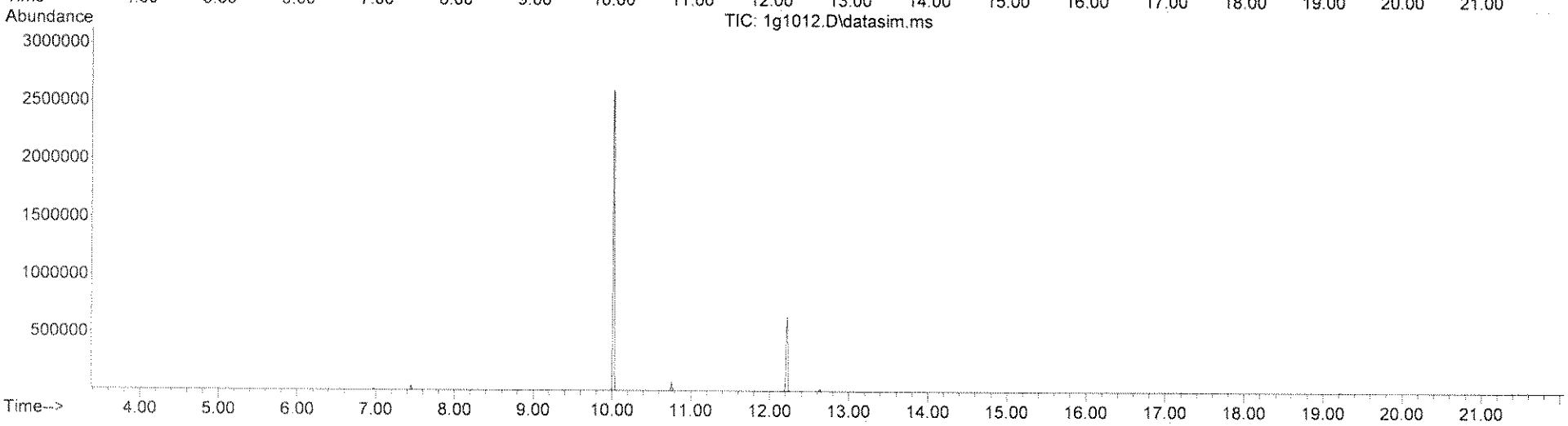
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1012.D
Acq On : 1 Jul 2013 17:25
Operator : jfi
Sample : aa24782-cal4@1x (Sig #1); aa24782-cal5 (Sig #2)
Misc : a3g0018
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 19:54:59 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1013.D
Acq On : 1 Jul 2013 17:53
Operator : jfi
Sample : aa24782-cal5@1x (Sig #1); aa24782-cal6 (Sig #2)
Misc : a3d0410
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 19:55:01 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration

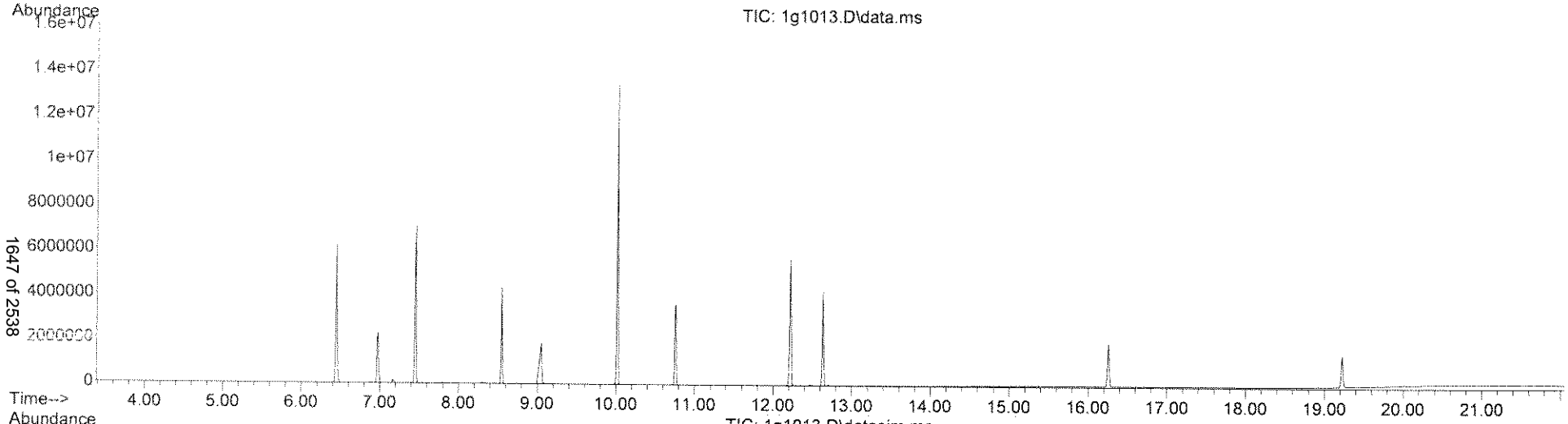
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	488118	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.546	136	2032518	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.762	164	1079886	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.633	188	1734782	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.261	240	1070067	40.00	ug/mL	0.00
10) PERYLENE-d12	19.226	264	791634	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.446	106	1401220	105.493	ug/mL	97
4) Caprolactam	9.048	113	477067	94.947	ug/mL	98
6) 1,1'-Biphenyl	10.017	154	4479313	120.364	ug/mL	97
7) Atrazine	12.217	200	956417	101.356	ug/mL	99

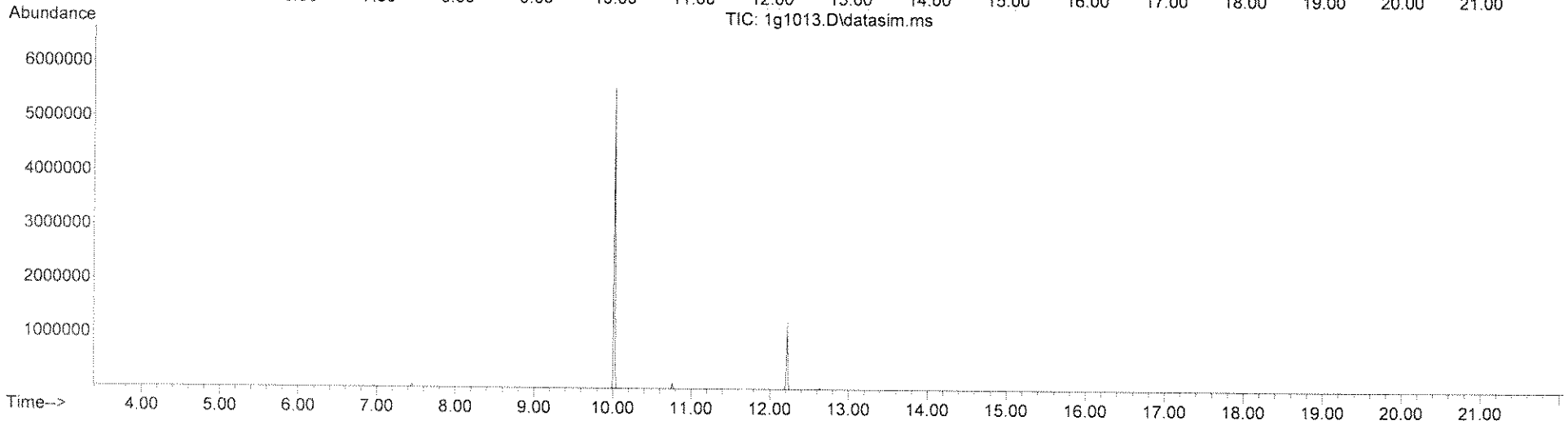
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1013.D
Acq On : 1 Jul 2013 17:53
Operator : jfi
Sample : aa24782-cal5@1x (Sig #1); aa24782-cal6 (Sig #2)
Misc : a3d0410
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 19:55:01 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 15:58:34 2013
QLast Update : Mon Jul 01 15:58:34 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1014.D
Acq On : 1 Jul 2013 18:22
Operator : jfi
Sample : aa24782-scv1@1x (Sig #1); aa24782-scv (Sig #2)
Misc : a3g0019
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 20:23:55 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 20:22:47 2013
QLast Update : Mon Jul 01 20:22:47 2013
Response via : Initial Calibration

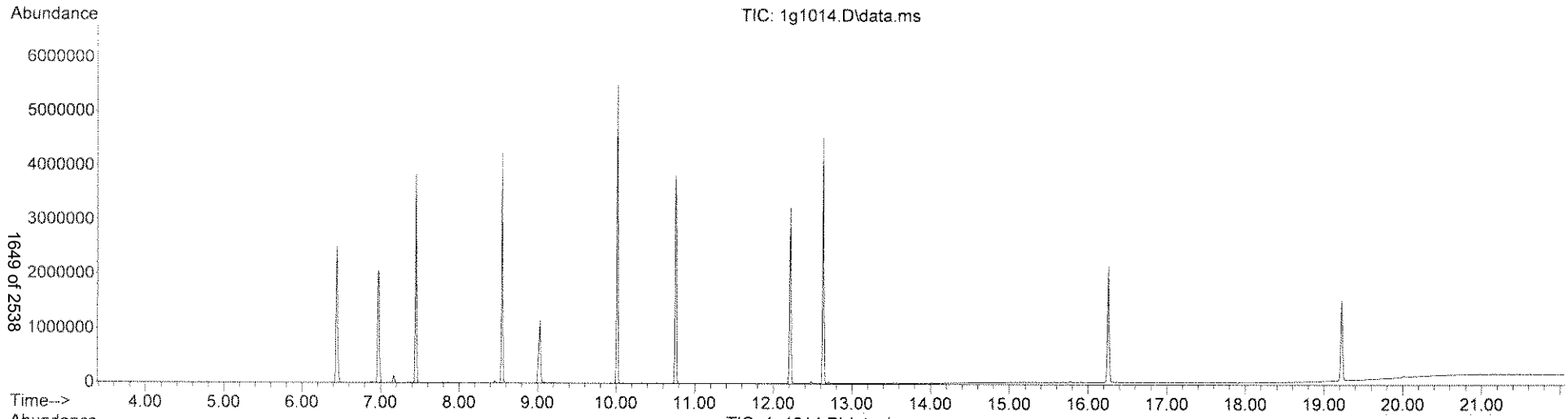
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	463614	40.00	ug/mL	0.00
3) NAPHTHALENE-d8	8.546	136	1935140	40.00	ug/mL	0.00
5) ACENAPHTHENE-d10	10.753	164	1071269	40.00	ug/mL	0.00
8) PHENANTHRENE-d10	12.633	188	1824286	40.00	ug/mL	0.00
9) CHRYSENE-d12	16.262	240	1124585	40.00	ug/mL	0.00
10) PERYLENE-d12	19.226	264	849747	40.00	ug/mL	0.00
Target Compounds						Qvalue
2) Benzaldehyde	6.446	106	643760	49.112	ug/mL	97
4) Caprolactam	9.030	113	230747	55.326	ug/mL	98
6) 1,1'-Biphenyl	10.017	154	2015988	47.340	ug/mL	97
7) Atrazine	12.217	200	493099	53.977	ug/mL	98

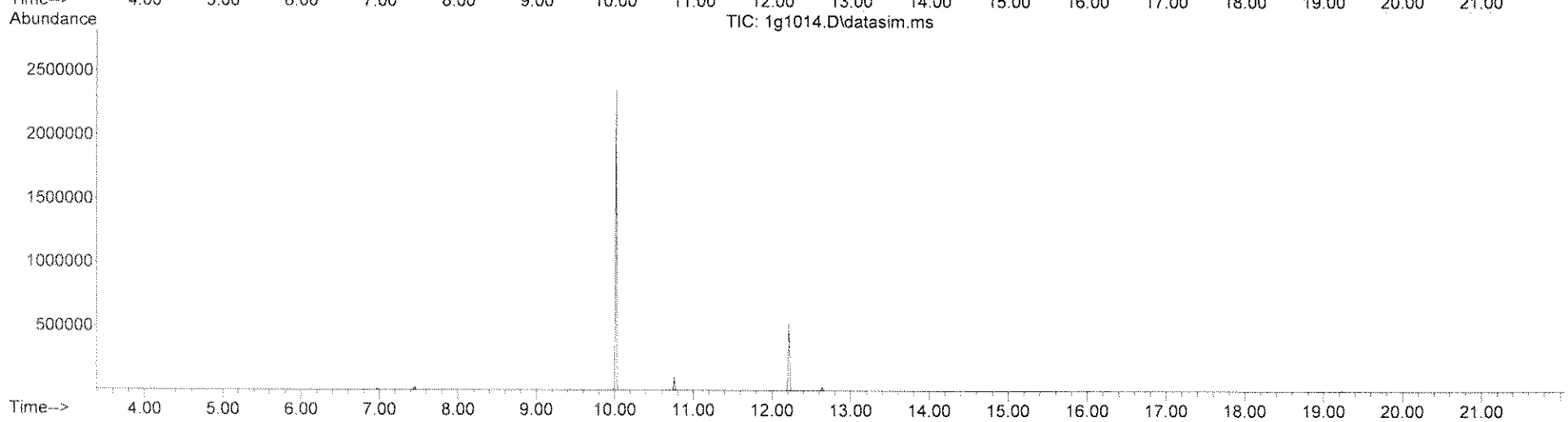
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070113\
Data File : 1g1014.D
Acq On : 1 Jul 2013 18:22
Operator : jfi
Sample : aa24782-scv1@1x (Sig #1); aa24782-scv (Sig #2)
Misc : a3g0019
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 20:23:55 2013
Quant Method : C:\msdchem\1\METHODS\TCL070113.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084 ;Mon Jul 01 20:22:47 2013
QLast Update : Mon Jul 01 20:22:47 2013
Response via : Initial Calibration





ANALYSIS SEQUENCE

AA24784

Instrument: OSVGCMS1

Calibration ID: 1307010

Printed: 7/3/2013 14:29:53

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24784-TUN1	QC		1		A3C0367	A3B0304		
AA24784-CAL1	QC		2		A3G0028	A3B0304		
AA24784-CAL2	QC		3		A3G0029	A3B0304		
AA24784-CAL3	QC		4		A3G0030	A3B0304		
AA24784-CAL4	QC		5		A3G0031	A3B0304		5 cans
AA24784-CAL5	QC		6		A3G0032	A3B0304		
AA24784-CAL6	QC		7		A3G0033	A3B0304		
AA24784-CAL7	QC		8		A3G0034	A3B0304		
AA24784-CAL8	QC		9		A3F0122	A3B0304		
AA24784-SCV1	QC		10		A3G0059	A3B0304		

Samples Loaded By Date

Data Processed By Date

Response Factor Report OSVGCMS1

Method Path : C:\msdchem\1\METHODS\
Method File : 070213.M
Title : SOP SVMS/ 3.0; ELEMENT CAL 1307010; INSTMon Feb SuTue Jul 02 21:00:35 2013
Last Update : Tue Jul 02 21:00:35 2013
Response Via : Initial Calibration

Calibration Files
5 =1g2002.D 10 =1g2003.D 20 =1g2004.D 40 =1g2005.D 50 =1g2006.D 60 =1g2007.D 80 =1g2008.D 100 =1g2009.D

		Compound	5	10	20	40	50	60	80	100	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		N-Nitrosodimet...	1.023	1.117	0.969	1.081	1.030	1.019	1.168	1.064	1.059	5.93
3)		Pyridine	1.666	1.864	1.618	1.729	1.676	1.651	1.842	1.679	1.716	5.28
4)		2-Picoline	1.641	1.759	1.583	1.690	1.643	1.611	1.787	1.698	1.676	4.22
5)		N-Nitrosomethy...	0.704	0.754	0.709	0.776	0.732	0.737	0.829	0.775	0.752	5.47
6)		Methyl methane...	0.962	1.032	0.948	1.024	0.979	0.979	1.118	1.048	1.011	5.55
7)	s	2-Fluorophenol...	1.516	1.629	1.475	1.603	1.530	1.532	1.675	1.655	1.577	4.63
8)		2-Fluorophenol	1.516	1.629	1.475	1.603	1.530	1.532	1.675	1.655	1.577	4.63
9)		N-Nitrosodieth...	0.633	0.734	0.707	0.787	0.754	0.766	0.838	0.833	0.757	8.88
10)		Ethyl methanes...	1.092	1.165	1.101	1.227	1.139	1.175	1.310	1.235	1.180	6.25
11)	s	Phenol -D5 (ac...	1.749	1.873	1.826	2.016	1.907	1.948	2.088	2.117	1.941	6.58
12)		Phenol -D5	1.749	1.873	1.826	2.016	1.907	1.948	2.088	2.117	1.941	6.58
13)		Pentachloroethane	0.603	0.633	0.582	0.649	0.615	0.626	0.684	0.692	0.635	6.01
14)		aniline	2.284	2.502	2.414	2.642	2.513	2.548	2.771	2.760	2.554	6.52
15)	p	Phenol	1.756	1.848	1.763	1.912	1.790	1.910	2.041	1.987	1.876	5.59
16)	p	Bis(2-chloroet...	1.412	1.449	1.372	1.463	1.418	1.423	1.587	1.535	1.457	4.86
17)	p	2-Chlorophenol	1.410	1.473	1.436	1.559	1.488	1.502	1.641	1.615	1.516	5.44
18)		1,3-Dichlorobe...	1.739	1.821	1.679	1.790	1.756	1.756	1.877	1.911	1.791	4.23
19)		1,4-Dichlorobe...	1.760	1.803	1.698	1.815	1.770	1.780	1.941	1.976	1.818	5.17
20)		Benzyl Alcohol	0.799	0.913	0.921	1.044	0.997	1.013	1.127	1.097	0.989	10.88
21)		1,2-Dichlorobe...	1.596	1.707	1.597	1.686	1.626	1.651	1.794	1.824	1.685	5.12
22)	p	2-Methylphenol	1.130	1.281	1.194	1.312	1.238	1.274	1.423	1.374	1.278	7.36
23)		Bis(2-chlorois...	1.734	1.861	1.673	1.889	1.754	1.767	2.008	1.865	1.819	5.87
24)	p	Acetophenone	2.005	2.193	2.069	2.344	2.203	2.312	2.522	2.569	2.277	8.80
25)	p	3 & 4-Methylph...	1.301	1.423	1.414	1.688	1.602	1.657	1.785	1.812	1.585	11.78
26)	p	N-Nitrosodi-n-...	1.033	1.118	1.080	1.251	1.143	1.158	1.331	1.222	1.167	8.28
27)		N-Nitrosopyrro...	0.536	0.643	0.684	0.833	0.797	0.832	0.898	0.876	0.762	16.74
28)		N-Nitrosomorph...	0.975	1.084	0.987	1.127	1.027	1.063	1.228	1.070	1.070	7.58
29)	p	Hexachloroethane	0.686	0.727	0.681	0.724	0.704	0.692	0.790	0.743	0.718	5.02
30)		o-Toluidine	2.220	2.408	2.329	2.546	2.534	2.593	2.930	2.658	2.527	8.62
31)		a,a-Dimethylph...	2.508	3.135	2.814	3.422	3.233	3.198	3.721	3.438	3.184	11.92
32)	I	NAPHTHALENE-d8	----------ISTD----------									
33)	s	Nitrobenzene -...	0.462	0.488	0.447	0.486	0.457	0.460	0.527	0.418	0.468	6.91
34)		Nitrobenzene -D5	0.462	0.488	0.447	0.486	0.457	0.460	0.527	0.418	0.468	6.91
35)	p	Nitrobenzene	0.416	0.447	0.401	0.436	0.407	0.404	0.454	0.410	0.422	4.92
36)		N-Nitrosopiper...	0.162	0.172	0.175	0.200	0.183	0.186	0.209	0.192	0.185	8.30
37)	p	Isophorone	0.588	0.676	0.645	0.733	0.692	0.690	0.806	0.705	0.692	9.17

% RSD <20 ?
OK

Method Path : C:\msdchem\1\METHODS\
Method File : 070213.M

38)	p	2-Nitrophenol	0.157	0.177	0.181	0.200	0.189	0.194	0.218	0.209	0.191	10.10
39)	p	2,4-Dimethylph...	0.319	0.332	0.328	0.352	0.340	0.340	0.379	0.360	0.344	5.59
40)		Bis(2-chloroet...	0.401	0.412	0.386	0.450	0.398	0.409	0.472	0.411	0.417	6.93
41)		o,o,o-Triethyl...	0.195	0.212	0.206	0.233	0.216	0.217	0.243	0.237	0.220	7.44
42)		Benzoic Acid			0.198	0.246	0.239	0.242	0.281	0.266	0.245	11.50
43)	p	2,4-Dichloroph...	0.259	0.272	0.267	0.294	0.282	0.289	0.317	0.322	0.288	7.88
44)		1,2,4-Trichlor...	0.341	0.354	0.340	0.371	0.349	0.351	0.384	0.388	0.360	5.24
45)	p	Naphthalene	1.051	1.095	1.051	1.169	1.123	1.150	1.233	1.270	1.143	6.99
46)	p	4-Chloroaniline	0.389	0.417	0.419	0.460	0.435	0.448	0.502	0.490	0.445	8.59
47)		2,6-Dichloroph...	0.259	0.278	0.274	0.302	0.289	0.299	0.329	0.324	0.294	8.19
48)		Hexachloropropene	0.217	0.240	0.234	0.254	0.246	0.250	0.280	0.266	0.248	7.75
49)	p	Hexachlorobuta...	0.140	0.141	0.133	0.143	0.133	0.134	0.148	0.147	0.140	4.21
50)		N-Nitrosodi-n-...	0.229	0.265	0.252	0.298	0.283	0.281	0.327	0.296	0.279	10.81
51)		p-Phenylenedia...	0.199	0.204	0.179	0.124	0.161	0.141	0.155	0.127	0.161	19.00
52)	p	4-Chloro-3-met...	0.276	0.311	0.293	0.334	0.329	0.330	0.379	0.365	0.327	10.48
53)		Safrole	0.225	0.240	0.242	0.268	0.261	0.265	0.293	0.291	0.261	9.30
54)	p	2-Methylnaphth...	0.662	0.703	0.692	0.792	0.752	0.764	0.854	0.859	0.760	9.59
55)		1-Methylnaphth...	0.738	0.789	0.763	0.891	0.860	0.877	0.967	0.979	0.858	10.43
56)	p	Hexachlorocycl...	0.145	0.160	0.167	0.192	0.187	0.193	0.215	0.216	0.184	13.76
57)	I	ACENAPHTHENE-d10	----------ISTD----------									
58)	p	1,2,4,5-Tetrac...	0.612	0.624	0.643	0.708	0.655	0.682	0.725	0.746	0.674	7.22
59)	p	2,4,6-Trichlor...	0.323	0.368	0.367	0.408	0.392	0.392	0.439	0.435	0.390	9.80
60)	p	2,4,5-Trichlor...	0.364	0.392	0.391	0.432	0.427	0.431	0.479	0.471	0.424	9.40
61)	s	2-Fluorobiphen...	1.373	1.385	1.388	1.557	1.469	1.517	1.629	1.625	1.493	7.08
62)		2-Fluorobiphenyl	1.373	1.385	1.388	1.557	1.469	1.517	1.629	1.625	1.493	7.08
63)		Isosafrole	0.436	0.453	0.455	0.503	0.472	0.489	0.540	0.518	0.483	7.39
64)	p	2-Chloronaphth...	1.140	1.136	1.147	1.266	1.189	1.230	1.361	1.304	1.222	6.85
65)	p	2-Nitroaniline	0.318	0.393	0.377	0.432	0.416	0.412	0.479	0.416	0.406	11.39
66)		1,4-Naphthoqui...	0.286	0.346	0.341	0.347	0.302	0.265	0.382	0.242	0.314	15.24
67)	p	Dimethyl phtha...	1.250	1.354	1.258	1.450	1.405	1.373	1.566	1.478	1.392	7.73
68)		m-Dinitrobenzene	0.165	0.195	0.189	0.216	0.214	0.209	0.240	0.228	0.207	11.42
69)	p	2,6-Dinitrotol...	0.279	0.295	0.280	0.317	0.303	0.309	0.355	0.328	0.308	8.24
70)	p	Acenaphthylene	1.754	1.888	1.854	2.116	2.021	2.060	2.315	2.239	2.031	9.50
71)	p	3-Nitroaniline	0.236	0.276	0.284	0.316	0.302	0.304	0.353	0.332	0.300	11.85
72)	p	Acenaphthene	1.185	1.230	1.194	1.347	1.340	1.387	1.486	1.472	1.330	8.88
73)	p	2,4-Dinitrophenol	0.089	0.132	0.158	0.203	0.210	0.214	0.235	0.237	0.185	28.76 *
74)		Pentachloroben...	0.465	0.488	0.461	0.535	0.523	0.534	0.584	0.600	0.524	9.76
75)	p	4-Nitrophenol	0.159	0.181	0.184	0.209	0.200	0.193	0.229	0.208	0.195	10.89
76)	p	Dibenzofuran	1.530	1.609	1.538	1.711	1.647	1.691	1.841	1.827	1.674	7.03
77)	p	2,4-Dinitrotol...	0.325	0.382	0.367	0.424	0.421	0.423	0.467	0.449	0.407	11.39
78)		2-Naphthylamine	0.876	0.914	0.872	0.997	0.967	0.967	1.117	1.027	0.967	8.47
79)		1-Naphthylamine	1.073	1.067	0.996	1.160	1.158	1.150	1.316	1.226	1.143	8.72
80)	p	2,3,4,6-Tetrac...	0.270	0.302	0.298	0.347	0.335	0.337	0.371	0.385	0.331	11.73
81)	p	Diethyl phthalate	1.285	1.391	1.269	1.418	1.342	1.347	1.569	1.408	1.379	6.83
82)	p	4-Chlorophenyl...	0.635	0.660	0.625	0.673	0.672	0.673	0.750	0.770	0.682	7.57
83)	p	Fluorene	1.273	1.341	1.270	1.466	1.470	1.447	1.610	1.589	1.433	9.11
84)		Thionazin	0.228	0.255	0.228	0.262	0.248	0.244	0.294	0.257	0.252	8.36

* see print-out.
[illegible]

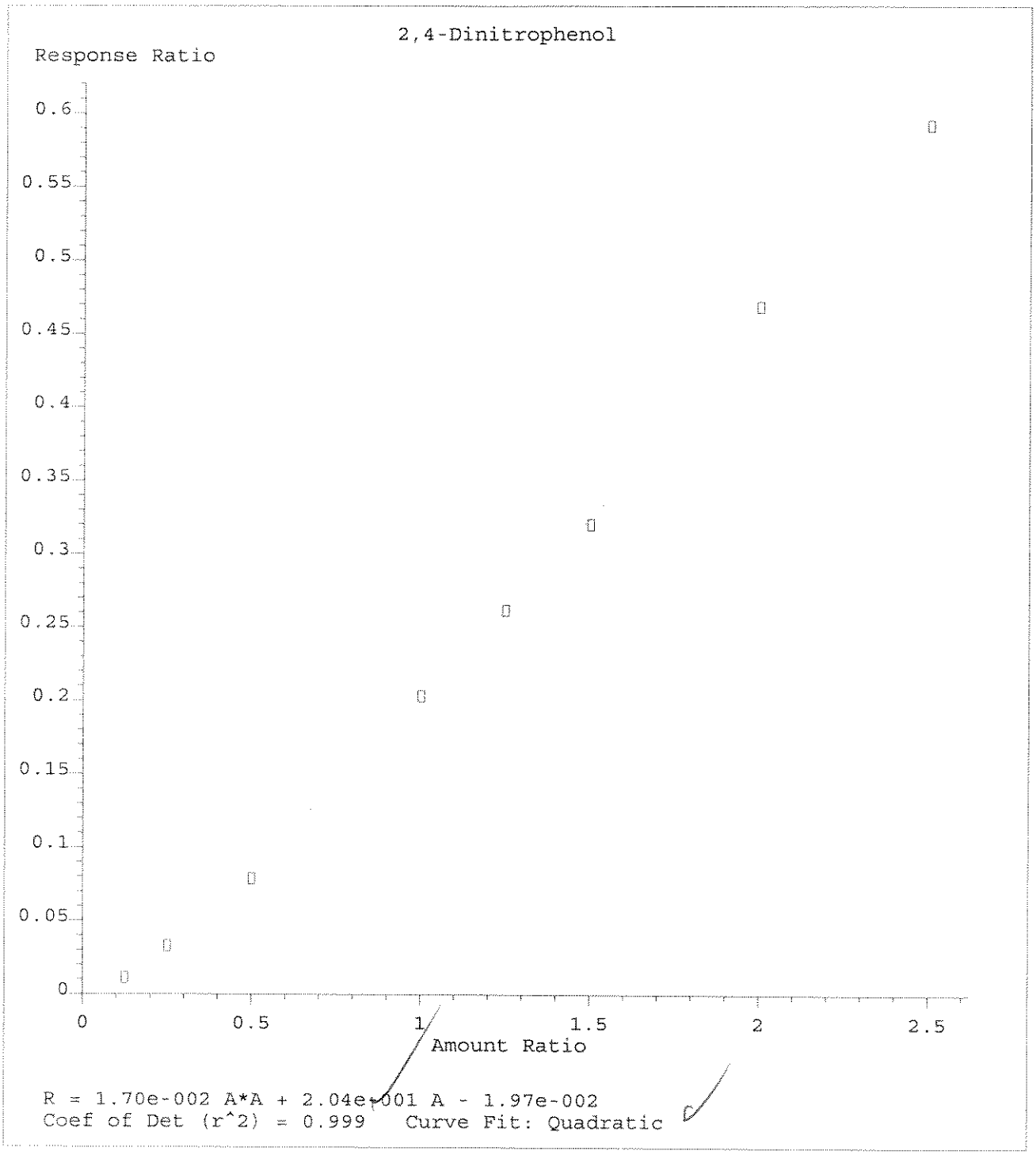
Method Path : C:\msdchem\1\METHODS\
Method File : 070213.M

85)		5-Nitro-o-tolu...	0.315	0.343	0.340	0.390	0.385	0.385	0.428	0.402	0.373	9.97
86)	p	4-Nitroaniline	0.242	0.284	0.296	0.321	0.308	0.296	0.355	0.308	0.301	10.66
87)	p	2-Methyl-4,6-d...		0.191	0.213	0.241	0.228	0.234	0.273	0.257	0.234	11.51
88)	p	Diphenylamine/...	0.984	1.049	0.988	1.159	1.122	1.165	1.267	1.303	1.130	10.53
89)	p	N-Nitrosodiphe...	1.967	2.098	1.976	2.317	2.244	2.330	2.534	2.607	2.259	10.53
90)		DPH (as Azoben...	0.327	0.359	0.331	0.366	0.362	0.372	0.412	0.387	0.365	7.61
91)	s	2,4,6-Tribromo...	0.135	0.162	0.157	0.179	0.171	0.172	0.195	0.200	0.171	12.13
92)		2,4,6-Tribromo...	0.135	0.162	0.157	0.179	0.171	0.172	0.195	0.200	0.171	12.13
93)	I	PHENANTHRENE-d10	----------ISTD----------									
94)		Sulfotepp	0.158	0.167	0.148	0.178	0.161	0.160	0.185	0.164	0.165	7.00
95)		Diallate	0.267	0.297	0.274	0.321	0.304	0.295	0.332	0.307	0.300	7.27
96)		Phorate	0.450	0.486	0.433	0.518	0.483	0.473	0.547	0.477	0.483	7.45
97)	p	4-Bromophenylp...	0.217	0.231	0.233	0.260	0.258	0.260	0.288	0.287	0.254	10.19
98)		Phenacetin	0.301	0.324	0.362	0.390	0.371	0.360	0.421	0.391	0.365	10.50
99)		1,3,5-Trinitro...	0.062	0.058	0.075	0.088	0.083	0.078	0.096	0.094	0.079	17.41
100)	p	Hexachlorobenzene	0.222	0.222	0.221	0.264	0.246	0.246	0.277	0.288	0.248	10.45
101)		Dimethoate	0.265	0.277	0.277	0.297	0.273	0.240	0.322	0.221	0.272	11.51
102)		4-Aminobiphenyl	0.658	0.713	0.768	0.866	0.835	0.862	0.919	1.020	0.830	13.91
103)	p	Pentachlorophenol		0.117	0.132	0.157	0.146	0.148	0.158	0.180	0.148	13.45
104)		Pronamide	0.197	0.211	0.211	0.252	0.227	0.214	0.254	0.242	0.226	9.36
105)		Pentachloronit...	0.088	0.104	0.097	0.110	0.102	0.103	0.117	0.111	0.104	8.63
106)	p	Phenanthrene	1.050	1.091	1.048	1.180	1.122	1.174	1.255	1.269	1.149	7.44
107)		Disulfoton	0.384	0.418	0.404	0.464	0.416	0.433	0.485	0.448	0.431	7.64
108)	p	Anthracene	1.044	1.080	1.046	1.247	1.166	1.130	1.338	1.338	1.174	10.34
109)		Dinoseb		0.161	0.193	0.244	0.232	0.219	0.262	0.256	0.224	16.25
110)	p	Carbazole	0.855	0.838	0.876	0.961	0.919	0.953	1.035	1.090	0.941	9.37
111)		Methyl Parathion	0.222	0.235	0.254	0.281	0.252	0.246	0.305	0.232	0.253	10.82
112)	p	Di-n-butyl pht...	1.095	1.154	1.172	1.402	1.261	1.247	1.481	1.334	1.268	10.33
113)		Parathion	0.117	0.137	0.150	0.173	0.158	0.149	0.186	0.171	0.155	14.11
114)		4-Nitroquinoli...		0.042	0.059	0.075	0.070	0.066	0.079	0.075	0.067	19.20
115)		Methapyrilene	0.254	0.233	0.222	0.222	0.184	0.162	0.232	0.141	0.206	19.06
116)		Isodrin	0.095	0.093	0.097	0.108	0.096	0.097	0.112	0.108	0.101	7.18
117)	p	Fluoranthene	0.808	0.756	0.779	0.864	0.787	0.803	0.909	0.944	0.831	8.10
118)		Benzidine	0.007	0.008	0.005	0.007	0.006	0.007	0.007	0.007	0.007#	10.82
119)	p	Pyrene	0.854	0.755	0.814	0.893	0.831	0.815	0.960	1.014	0.867	9.77
120)	s	Terphenyl -D14...	0.614	0.523	0.564	0.618	0.597	0.590	0.679	0.725	0.614	10.35
121)		Terphenyl -D14	0.614	0.523	0.564	0.618	0.597	0.590	0.679	0.725	0.614	10.35
122)		Aramite	0.010	0.012	0.015	0.017	0.016	0.015	0.019	0.016	0.015#	19.86
123)	p	Benzylbutyl ph...	0.298	0.293	0.321	0.378	0.349	0.354	0.404	0.410	0.351	12.74
124)	I	CHRYSENE-d12	----------ISTD----------									
125)		p-(dimethylami...	0.201	0.227	0.246	0.288	0.278	0.275	0.319	0.297	0.266	14.63
126)		Chlorobenzilate	0.300	0.319	0.323	0.391	0.369	0.363	0.422	0.416	0.363	12.59
127)		Famphur									0.000#	-1.00
128)		3,3'-Dimethylb...	0.600	0.615	0.555	0.527	0.475	0.463	0.554	0.452	0.530	11.72
129)		Kepone									0.000#	-1.00
130)		2-Acetylaminof...		0.286	0.363	0.455	0.420	0.424	0.468	0.408	0.403	15.31

Method Path : C:\msdchem\1\METHODS\
Method File : 070213.M

131)	p	3,3'-Dichlorob...	0.275	0.323	0.344	0.384	0.363	0.369	0.397	0.389	0.355	11.41
132)	p	Benzo(a)anthra...	1.094	1.089	1.040	1.170	1.118	1.110	1.257	1.185	1.133	5.99
133)	p	Bis(2-ethylhex...	0.527	0.654	0.665	0.851	0.804	0.816	0.910	0.897	0.765	17.74
134)	p	Chrysene	0.962	0.991	0.947	1.073	1.002	1.014	1.138	1.074	1.025	6.31
135)	p	Di-n-octyl pht...		0.847	0.989	1.286	1.211	1.243	1.347	1.299	1.175	15.74
136)		Hexachlorophene									0.000#	-1.00
137)	I	PERYLENE-d12	----------ISTD----------									
138)		7,12-Dimethylb...	0.493	0.544	0.591	0.699	0.704	0.725	0.769	0.811	0.667	16.83
139)	p	Benzo(b)fluora...	1.195	1.280	1.260	1.488	1.433	1.520	1.609	1.614	1.425	11.36
140)	p	Benzo(k)fluora...	0.970	1.102	1.080	1.235	1.238	1.213	1.338	1.383	1.195	11.49
141)	p	Benzo(a)pyrene	0.968	1.044	1.055	1.214	1.181	1.187	1.322	1.269	1.155	10.53
142)		3-Methylcholan...	0.540	0.556	0.547	0.616	0.592	0.594	0.664	0.617	0.591	7.09
143)	p	Indeno(1,2,3-c...	1.149	1.117	0.964	1.088	0.997	1.010	1.215	0.948	1.061	9.03
144)	p	Dibenzo(a,h)an...	0.966	0.975	0.840	0.953	0.868	0.873	1.034	0.822	0.916	8.25
145)	p	Benzo(g,h,i)pe...	0.906	0.897	0.738	0.805	0.709	0.724	0.901	0.657	0.792	12.52

(#) = Out of Range

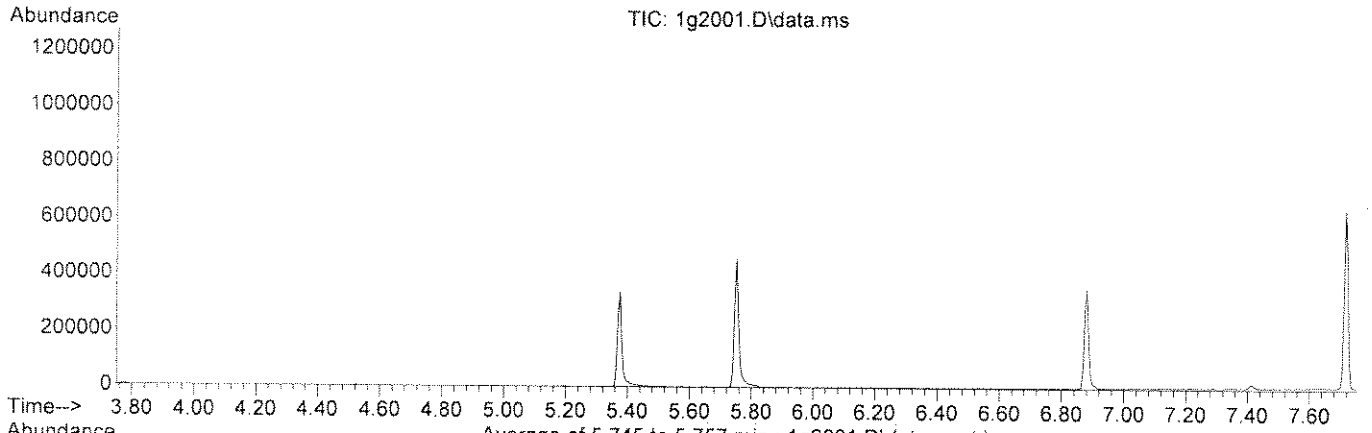


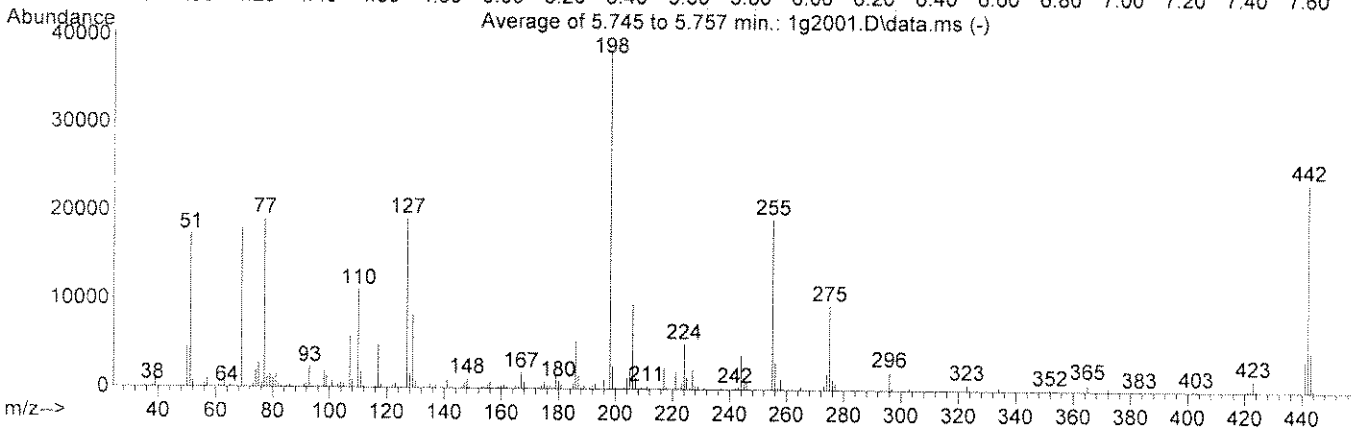
Method Name: C:\msdchem\1\METHODS\070213.M
Calibration Table Last Updated: Tue Jul 02 21:00:35 2013

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2001.D
Acq On : 2 Jul 2013 8:56
Operator : jfi
Sample : aa24784-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Tue Jul 02 09:09:35 2013





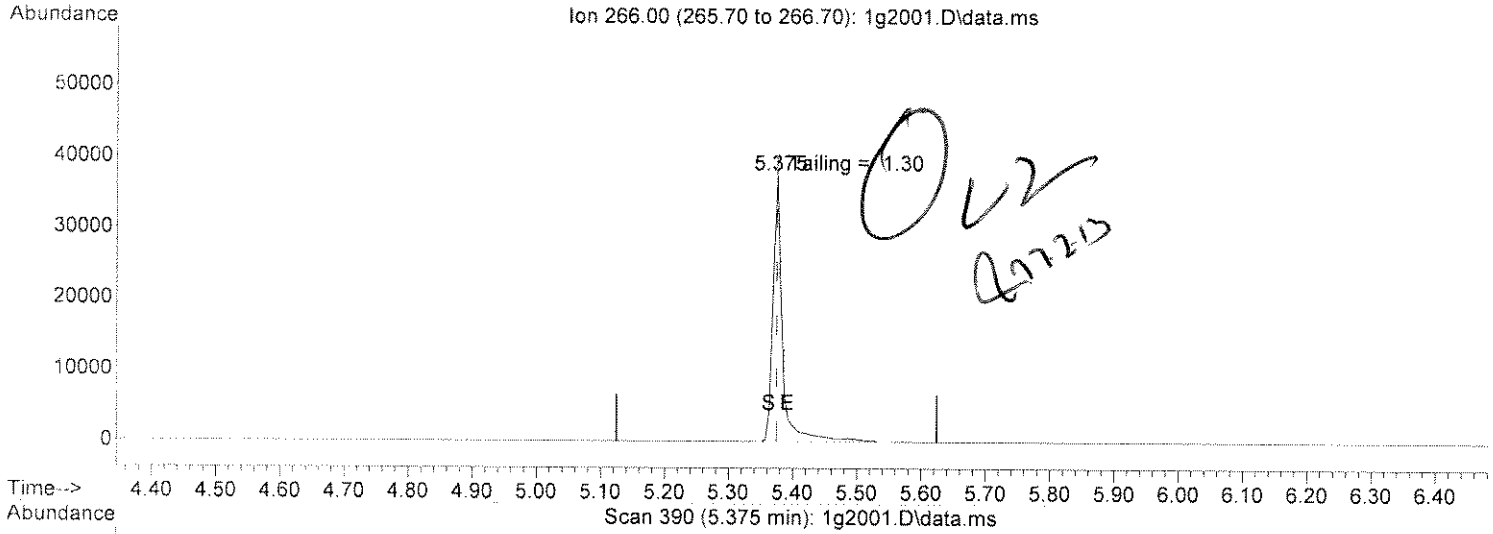
AutoFind: Scans 453, 454, 455; Background Corrected with Scan 448

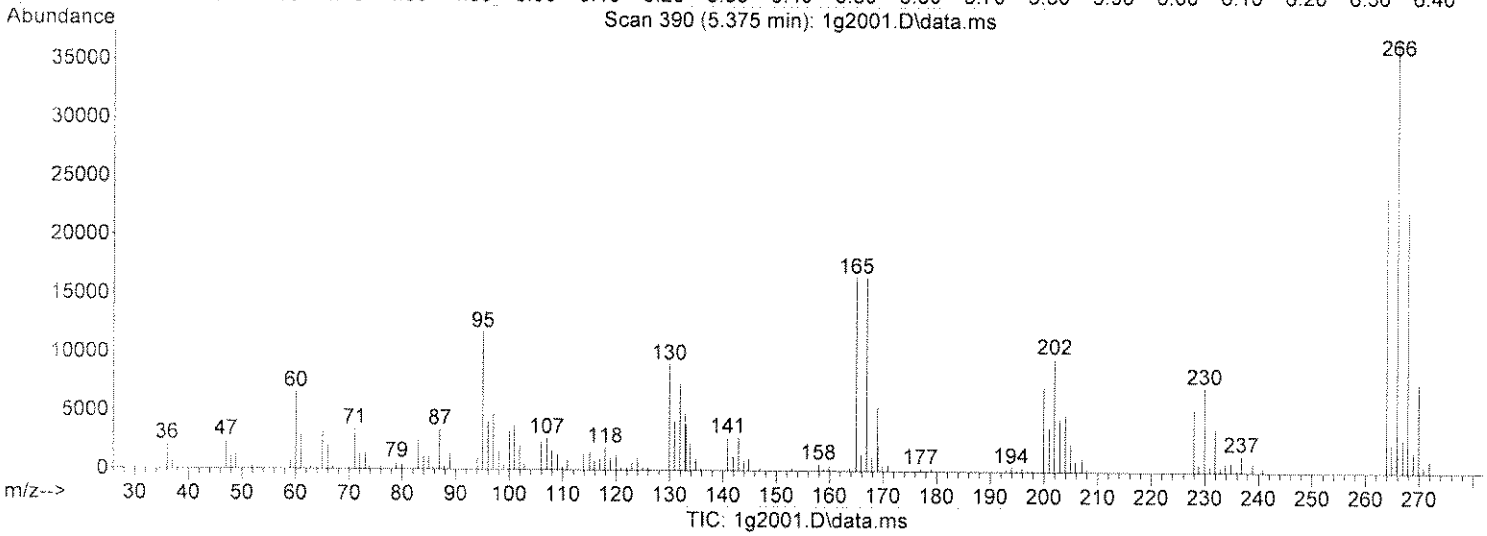
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.1	17339	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.6	17909	PASS
70	69	0.00	2	0.4	63	PASS
127	198	10	80	50.1	19222	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	38405	PASS
199	198	5	9	6.8	2620	PASS
275	198	10	60	25.0	9596	PASS
365	198	1	100	2.6	980	PASS
441	442	0.01	24	14.9	3529	PASS
442	198	50	100	61.6	23652	PASS
443	442	15	24	19.2	4538	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2001.D
Acq On : 2 Jul 2013 8:56
Operator : jfi
Sample : aa24784-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 09:10:41 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Tue Jul 02 09:09:35 2013
Response via : Initial Calibration





(1) Pentachlorophenol

5.375min (0.000) 54.13 ug/ml

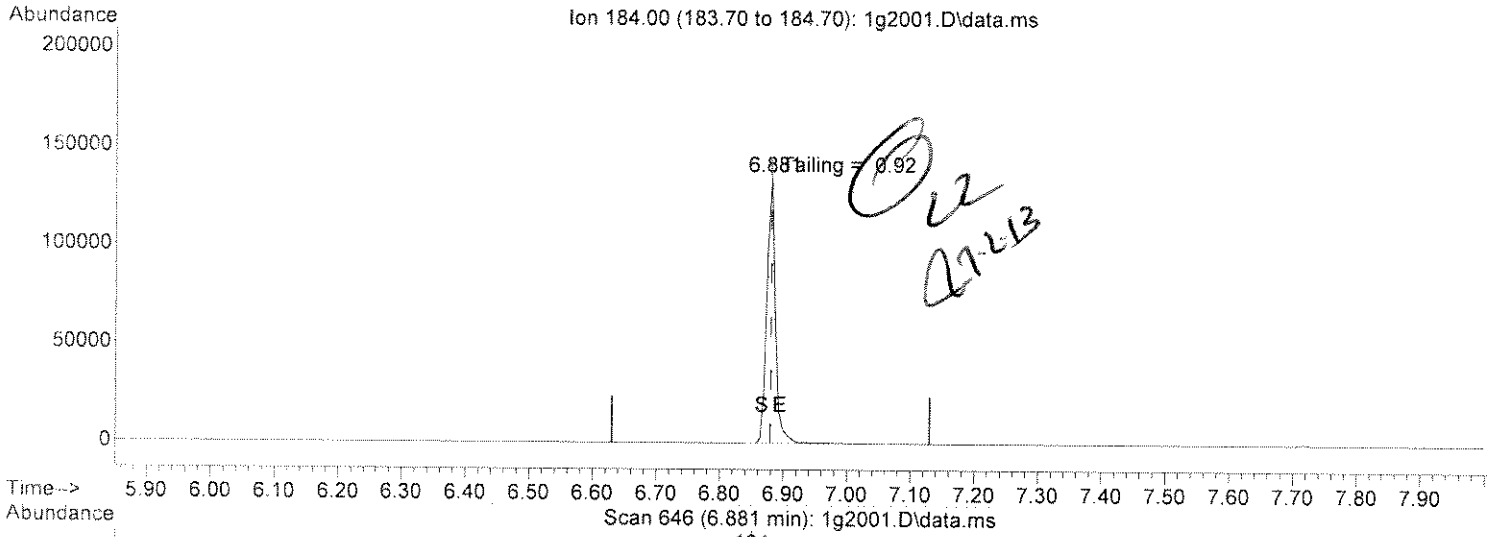
response 38433

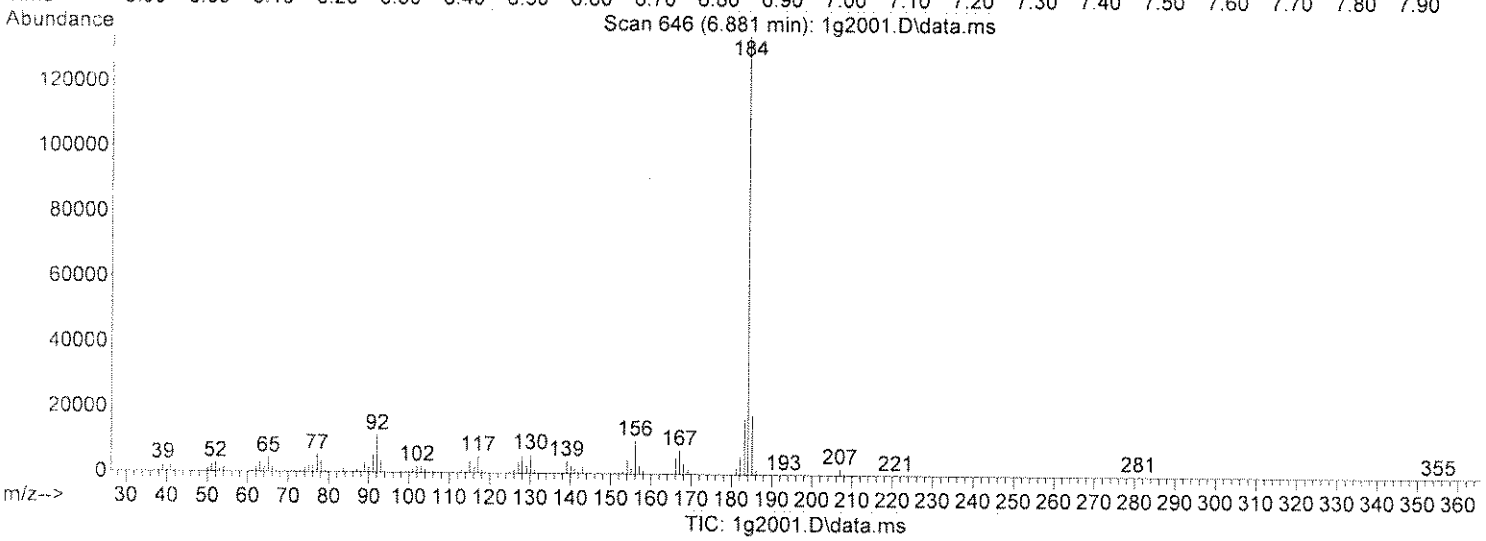
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2001.D
Acq On : 2 Jul 2013 8:56
Operator : jfi
Sample : aa24784-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 09:10:41 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Tue Jul 02 09:09:35 2013
Response via : Initial Calibration





(3) Benzidine

6.881min (0.000) 49.13 ug/ml

response 126834

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2001.D
Acq On : 2 Jul 2013 8:56
Operator : jfi
Sample : aa24784-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 09:10:41 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Tue Jul 02 09:09:35 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	5.375	266	38433	54.134	ug/ml	100
2) DFTPP	5.751	198	53604	55.058	ug/ml	100
3) Benzidine	6.881	184	126834	49.126	ug/ml	100
4) DDE	0.000		0	N.D.		
5) DDD	7.410	TIC	15096	7.208	#	65
6) DDT	7.716	TIC	542579	1048.462	ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

15096 q2.1.0 400 -- 27%

15096 ~~+104~~ 542579

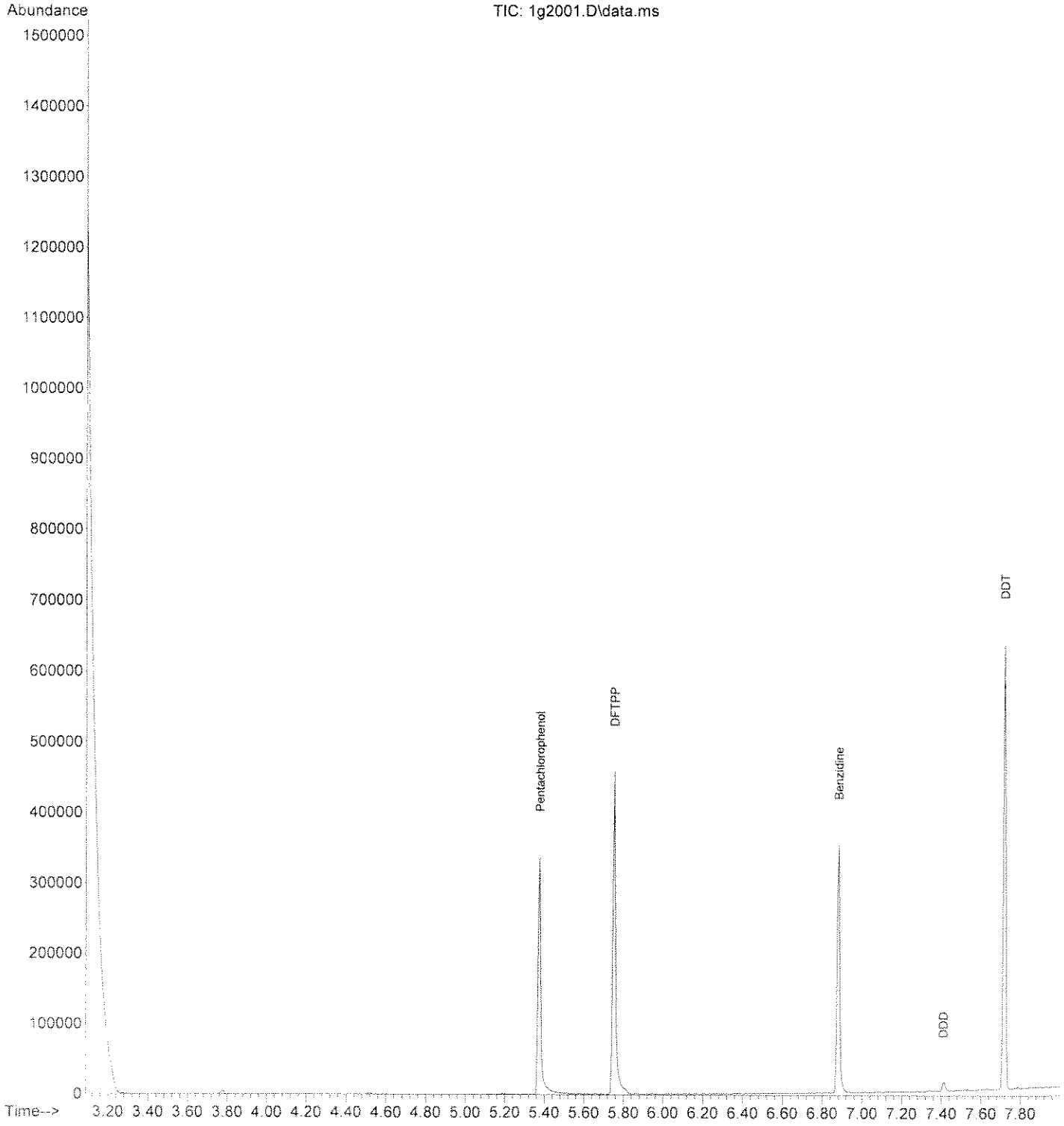
(557675)

220% q11.2.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2001.D
Acq On : 2 Jul 2013 8:56
Operator : jfi
Sample : aa24784-tun1
Misc : a3c0367
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 09:10:41 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Tue Jul 02 09:09:35 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2002.D
Acq On : 2 Jul 2013 9:09
Operator : jfi
Sample : aa24784-cal1
Misc : a3g0028
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 20:37:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	429936	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.546	136	1607988	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	794123	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.633	188	1378654	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.261	240	904132	40.00	ug/mL	0.00
137) PERYLENE-d12	19.226	264	709460	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.387	112	81453	4.81	ug/mL	-0.01
Spiked Amount 100.000			Recovery	=	4.81%	
11) Phenol -D5 (acid surr)	6.476	99	93996	4.51	ug/mL	-0.01
Spiked Amount 100.000			Recovery	=	4.51%	
33) Nitrobenzene -D5 (b/n ...	7.636	82	92765	4.93	ug/mL	-0.01
Spiked Amount 100.000			Recovery	=	4.93%	
61) 2-Fluorobiphenyl (b/n ...	9.877	172	136266	4.60	ug/mL	0.00
Spiked Amount 100.000			Recovery	=	4.60%	
91) 2,4,6-Tribromophenol (...	11.744	330	13437	3.95	ug/mL	-0.01
Spiked Amount 100.000			Recovery	=	3.95%	
120) Terphenyl -D14 (b/n surr)	14.610	244	105779	5.00	ug/mL	0.00
Spiked Amount 100.000			Recovery	=	5.00%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.737	74	54972	4.839	ug/mL	86
3) Pyridine	3.787	79	89515	4.854	ug/mL	95
4) 2-Picoline	4.717	93	88180	4.894	ug/mL	84
5) N-Nitrosomethylethylamine	4.837	88	37854	4.682	ug/mL#	65
6) Methyl methanesulfonate	5.187	80	51690	4.756	ug/mL	93
8) 2-Fluorophenol	5.387	112	81453	4.806	ug/mL	97
9) N-Nitrosodiethylamine	5.676	102	34030	4.185	ug/mL#	77
10) Ethyl methanesulfonate	6.006	79	58683	4.625	ug/mL	100
12) Phenol -D5	6.476	99	93996	4.506	ug/mL	87
13) Pentachloroethane	6.636	167	32381	4.741	ug/mL	98
14) aniline	6.566	93	122751	4.471	ug/mL	96
15) Phenol	6.486	94	94389	4.681	ug/mL	91
16) Bis(2-chloroethyl)ether	6.616	93	75884	4.844	ug/mL	92
17) 2-Chlorophenol	6.716	128	75798	4.653	ug/mL	99
18) 1,3-Dichlorobenzene	6.906	146	93458	4.855	ug/mL	99
19) 1,4-Dichlorobenzene	6.996	146	94571	4.840	ug/mL	95
20) Benzyl Alcohol	7.116	108	42943	4.041	ug/mL	93
21) 1,2-Dichlorobenzene	7.186	146	85789	4.736	ug/mL	98
22) 2-Methylphenol	7.236	107	60724	4.420	ug/mL	88
23) Bis(2-chloroisopropyl)...	7.276	45	93205	4.768	ug/mL	93
24) Acetophenone	7.446	105	107740	4.402	ug/mL#	50
25) 3 & 4-Methylphenol	7.416	108	139794	8.204	ug/mL	98
26) N-Nitrosodi-n-propylamine	7.436	70	55529	4.428	ug/mL	99
27) N-Nitrosopyrrolidine	7.406	100	28800	3.515	ug/mL	94
28) N-Nitrosomorpholine	7.446	56	52418	4.557	ug/mL	98
29) Hexachloroethane	7.606	117	36892	4.778	ug/mL	98
30) o-Toluidine	7.496	106	119301	4.392	ug/mL	99
31) a,a-Dimethylphenethyla...	8.387	58	134803	3.939	ug/mL#	97
34) Nitrobenzene -D5	7.636	82	92765	4.930	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2002.D
Acq On : 2 Jul 2013 9:09
Operator : jfi
Sample : aa24784-cal1
Misc : a3g0028
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 20:37:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.666	77	83672	4.933	ug/mL	95
36) N-Nitrosopiperidine	7.846	114	32580	4.384	ug/mL#	67
37) Isophorone	7.946	82	118227	4.252	ug/mL	99
38) 2-Nitrophenol	8.061	139	31577	4.118	ug/mL	91
39) 2,4-Dimethylphenol	8.080	122	64147	4.645	ug/mL	97
40) Bis(2-chloroethoxy)met...	8.192	93	80675	4.807	ug/mL	94
41) o,o,o-Triethyl Phospho...	8.155	198	39277	4.443	ug/mL	83
42) Benzoic Acid	8.136	105	47170	5.230	ug/mL#	68
43) 2,4-Dichlorophenol	8.350	162	52089	4.502	ug/mL	97
44) 1,2,4-Trichlorobenzene	8.471	180	68555	4.739	ug/mL	97
45) Naphthalene	8.574	128	211212	4.598	ug/mL	99
46) 4-Chloroaniline	8.611	127	78216	4.370	ug/mL	98
47) 2,6-Dichlorophenol	8.639	162	52111	4.404	ug/mL	98
48) Hexachloropropene	8.685	213	43648	4.370	ug/mL	98
49) Hexachlorobutadiene	8.722	223	28081	4.996	ug/mL	94
50) N-Nitrosodi-n-Butylamine	9.011	84	46112	4.114	ug/mL	88
51) p-Phenylenediamine	9.048	108	39999	6.170	ug/mL	96
52) 4-Chloro-3-methylphenol	9.188	107	55487	4.219	ug/mL	95
53) Safrole	9.300	162	45282	4.320	ug/mL	99
54) 2-Methylnaphthalene	9.430	142	132963	4.354	ug/mL	97
55) 1-Methylnaphthalene	9.560	142	148336	4.300	ug/mL	97
56) Hexachlorocyclopentadiene	9.644	237	29087	3.928	ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.654	216	60766	4.539	ug/mL	99
59) 2,4,6-Trichlorophenol	9.775	196	32065	4.136	ug/mL	93
60) 2,4,5-Trichlorophenol	9.821	196	36120	4.297	ug/mL	99
62) 2-Fluorobiphenyl	9.877	172	136266	4.598	ug/mL	99
63) Isosafrole	9.951	162	43248	4.508	ug/mL	99
64) 2-Chloronaphthalene	10.054	162	113197	4.667	ug/mL	98
65) 2-Nitroaniline	10.156	65	31592	3.924	ug/mL	92
66) 1,4-Naphthoquinone	10.259	158	28404	4.559	ug/mL	97
67) Dimethyl phthalate	10.361	163	124104	4.491	ug/mL	99
68) m-Dinitrobenzene	10.408	168	16342	3.975	ug/mL	85
69) 2,6-Dinitrotoluene	10.445	165	27664	4.521	ug/mL	94
70) Acenaphthylene	10.575	152	174094	4.318	ug/mL	99
71) 3-Nitroaniline	10.669	138	23475	3.937	ug/mL	97
72) Acenaphthene	10.799	154	117676	4.456	ug/mL	100
73) 2,4-Dinitrophenol	10.790	184	8813	5.957	ug/mL#	1
74) Pentachlorobenzene	10.967	250	46201	4.443	ug/mL	99
75) 4-Nitrophenol	10.837	109	15769	4.064	ug/mL	83
76) Dibenzofuran	11.014	168	151857	4.569	ug/mL	100
77) 2,4-Dinitrotoluene	10.958	165	32305	3.996	ug/mL	82
78) 2-Naphthylamine	11.098	143	87004	4.531	ug/mL	99
79) 1-Naphthylamine	11.200	143	106476	4.686	ug/mL	97
80) 2,3,4,6-Tetrachlorophenol	11.154	232	26770	4.081	ug/mL	98
81) Diethyl phthalate	11.247	149	127572	4.661	ug/mL	100
82) 4-Chlorophenyl phenyl ...	11.423	204	62993	4.651	ug/mL	99
83) Fluorene	11.443	166	126342	4.440	ug/mL	100
84) Thionazin	11.352	107	22586	4.514	ug/mL	95
85) 5-Nitro-o-toluidine	11.433	152	31315	4.222	ug/mL#	79
86) 4-Nitroaniline	11.433	138	23987	4.011	ug/mL	92
87) 2-Methyl-4,6-dinitroph...	11.473	198	16355	3.657	ug/mL	86
88) Diphenylamine/N-Nitros...	11.563	169	195263	8.707	ug/mL	99

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2002.D
Acq On : 2 Jul 2013 9:09
Operator : jfi
Sample : aa24784-call
Misc : a3g0028
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 20:37:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.563	169	195263	4.354	ug/mL	99
90)	DPH (as Azobenzene)	11.624	182	32479	4.485	ug/mL	91
92)	2,4,6-Tribromophenol	11.744	330	13437	3.947	ug/mL	98
94)	Sulfotepp	11.724	97	27279	4.793	ug/mL#	78
95)	Diallate	11.915	86	46091	4.464	ug/mL#	80
96)	Phorate	11.925	75	77480	4.651	ug/mL	97
97)	4-Bromophenylphenyl ether	12.036	248	37477	4.276	ug/mL	92
98)	Phenacetin	11.915	108	51811	4.129	ug/mL	96
99)	1,3,5-Trinitrobenzene	11.855	213	10711	3.929	ug/mL	96
100)	Hexachlorobenzene	12.159	284	38275	4.472	ug/mL	94
101)	Dimethoate	12.136	87	45717	4.882	ug/mL	94
102)	4-Aminobiphenyl	12.367	169	113460	3.965	ug/mL	99
103)	Pentachlorophenol	12.390	266	19669	3.962	ug/mL	95
104)	Pronamide	12.413	173	33992	4.366	ug/mL	98
105)	Pentachloronitrobenzene	12.413	237	15184	4.240	ug/mL	82
106)	Phenanthrene	12.667	178	180991	4.571	ug/mL	99
107)	Disulfoton	12.587	88	66176	4.451	ug/mL	93
108)	Anthracene	12.725	178	179834	4.446	ug/mL	98
109)	Dinoseb	12.587	211	21891	2.998	ug/mL	90
110)	Carbazole	12.910	167	147388	4.545	ug/mL	98
111)	Methyl Parathion	13.060	109	38200	4.374	ug/mL	87
112)	Di-n-butyl phthalate	13.291	149	188785	4.319	ug/mL	100
113)	Parathion	13.545	109	20183	3.777	ug/mL	88
114)	4-Nitroquinoline-1-oxide	13.614	190	6527m	3.011	ug/mL	
115)	Methapyrilene	13.686	97	43766	6.157	ug/mL	98
116)	Isodrin	13.987	193	16422	4.729	ug/mL	90
117)	Fluoranthene	14.168	202	139238	4.861	ug/mL	96
118)	Benzidine	13.987	184	1172	4.981	ug/mL	84
119)	Pyrene	14.459	202	147100	4.923	ug/mL	95
121)	Terphenyl -D14	14.610	244	105779	5.001	ug/mL	100
122)	Aramite	14.550	185	1679	3.274	ug/mL#	1
123)	Benzylbutyl phthalate	15.243	149	51388	4.249	ug/mL	96
125)	p-(dimethylamino)azobe...	14.791	225	22670	3.765	ug/mL#	100
126)	Chlorobenzilate	14.841	251	33915	4.135	ug/mL	88
127)	Famphur	0.000		0	N.D.		
128)	3,3'-Dimethylbenzidine	15.253	212	67826	5.661	ug/mL	98
129)	Kepone	0.000		0	N.D.		
130)	2-Acetylaminofluorene	15.644	181	25247	2.936	ug/mL	100
131)	3,3'-Dichlorobenzidine	16.151	252	31085	3.870	ug/mL	98
132)	Benzo(a)anthracene	16.239	228	123650	4.828	ug/mL	96
133)	Bis(2-ethylhexyl)phtha...	16.162	149	59515	3.440	ug/mL	96
134)	Chrysene	16.306	228	108715	4.693	ug/mL	97
135)	Di-n-octyl phthalate	17.485	149	71069	2.842	ug/mL	99
136)	Hexachlorophene	19.226	196	734	20.891	ug/mL#	20
138)	7,12-Dimethylbenz(a)an...	18.446	256	43737	3.697	ug/mL	97
139)	Benzo(b)fluoranthene	18.463	252	105993	4.194	ug/mL	94
140)	Benzo(k)fluoranthene	18.523	252	86009	4.058	ug/mL	93
141)	Benzo(a)pyrene	19.116	252	85824	4.189	ug/mL	95
142)	3-Methylcholanthrene	19.726	268	47900	4.571	ug/mL	98
143)	Indeno(1,2,3-cd)pyrene	20.982	276	101920	5.416	ug/mL	83
144)	Dibenzo(a,h)anthracene	21.001	278	85670	5.271	ug/mL	83
145)	Benzo(g,h,i)perylene	21.448	276	80336	5.718	ug/mL	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2002.D
Acq On : 2 Jul 2013 9:09
Operator : jfi
Sample : aa24784-cal1
Misc : a3g0028
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 20:37:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

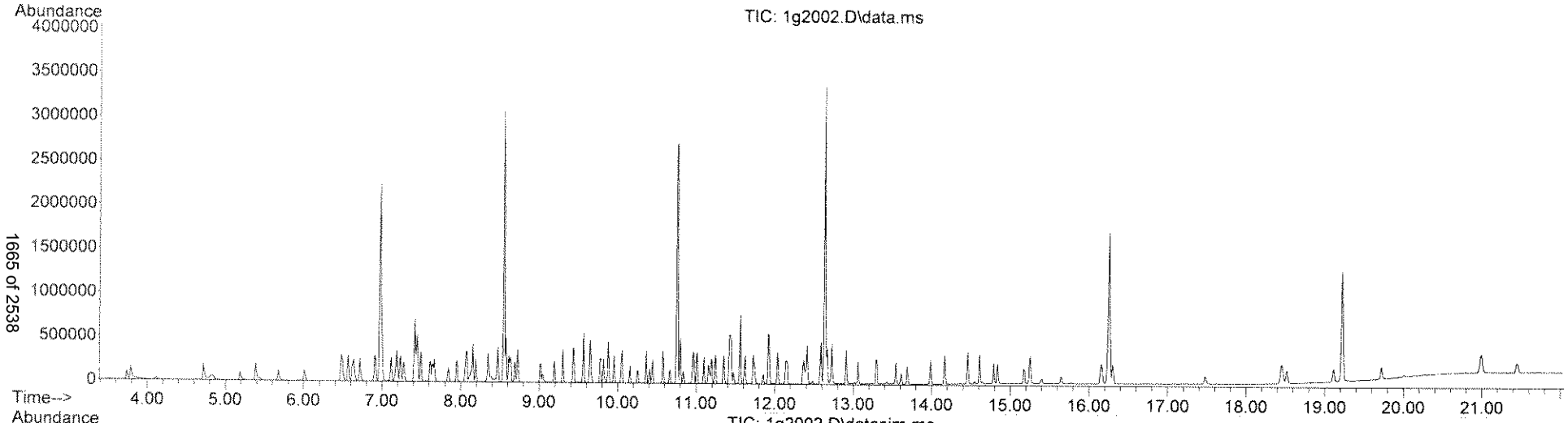
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

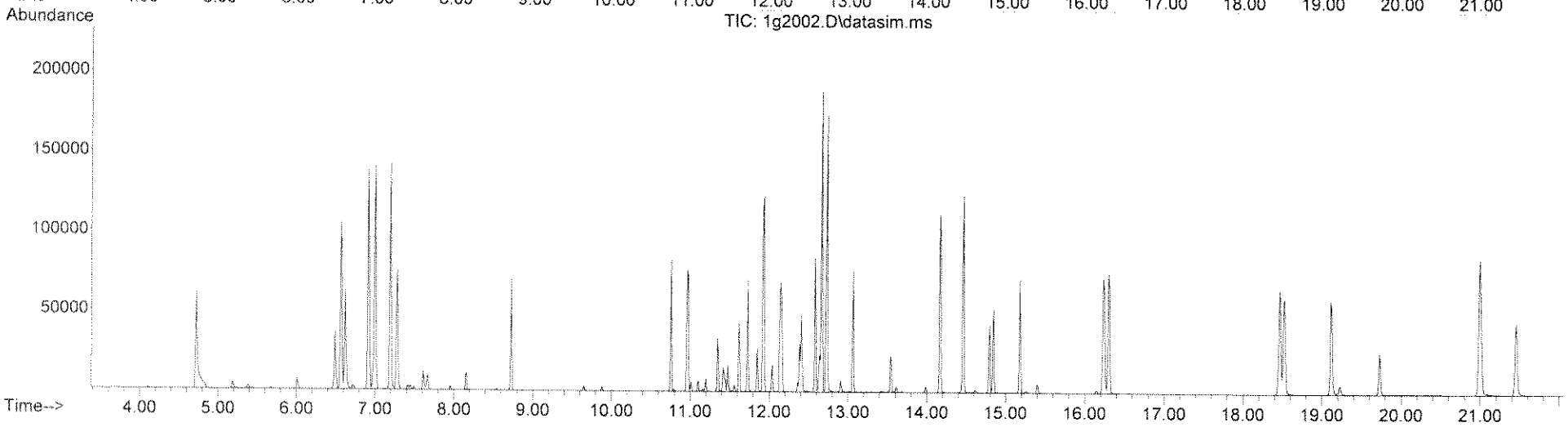
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2002.D
Acq On : 2 Jul 2013 9:09
Operator : jfi
Sample : aa24784-cal1
Misc : a3g0028
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 20:37:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

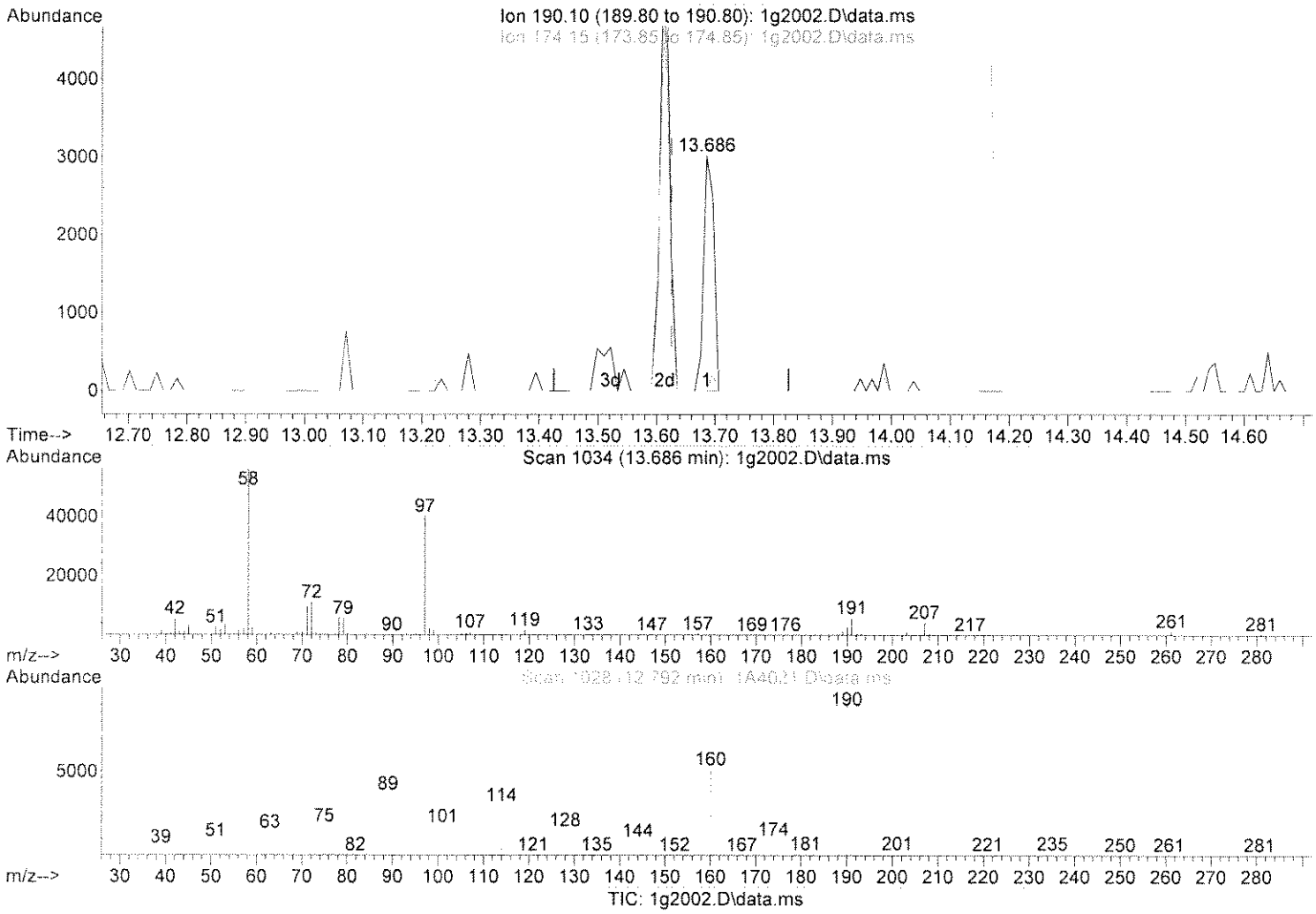




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2002.D
Acq On : 2 Jul 2013 9:09
Operator : jfi
Sample : aa24784-cal1
Misc : a3g0028
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 20:35:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration



(114) 4-Nitroquinoline-1-oxide

13.686min (+0.060) 1.65 ug/mL

response 3578

Ion	Exp%	Act%
190.10	100	100
174.15	12.30	3.55
0.00	0.00	0.00
0.00	0.00	0.00

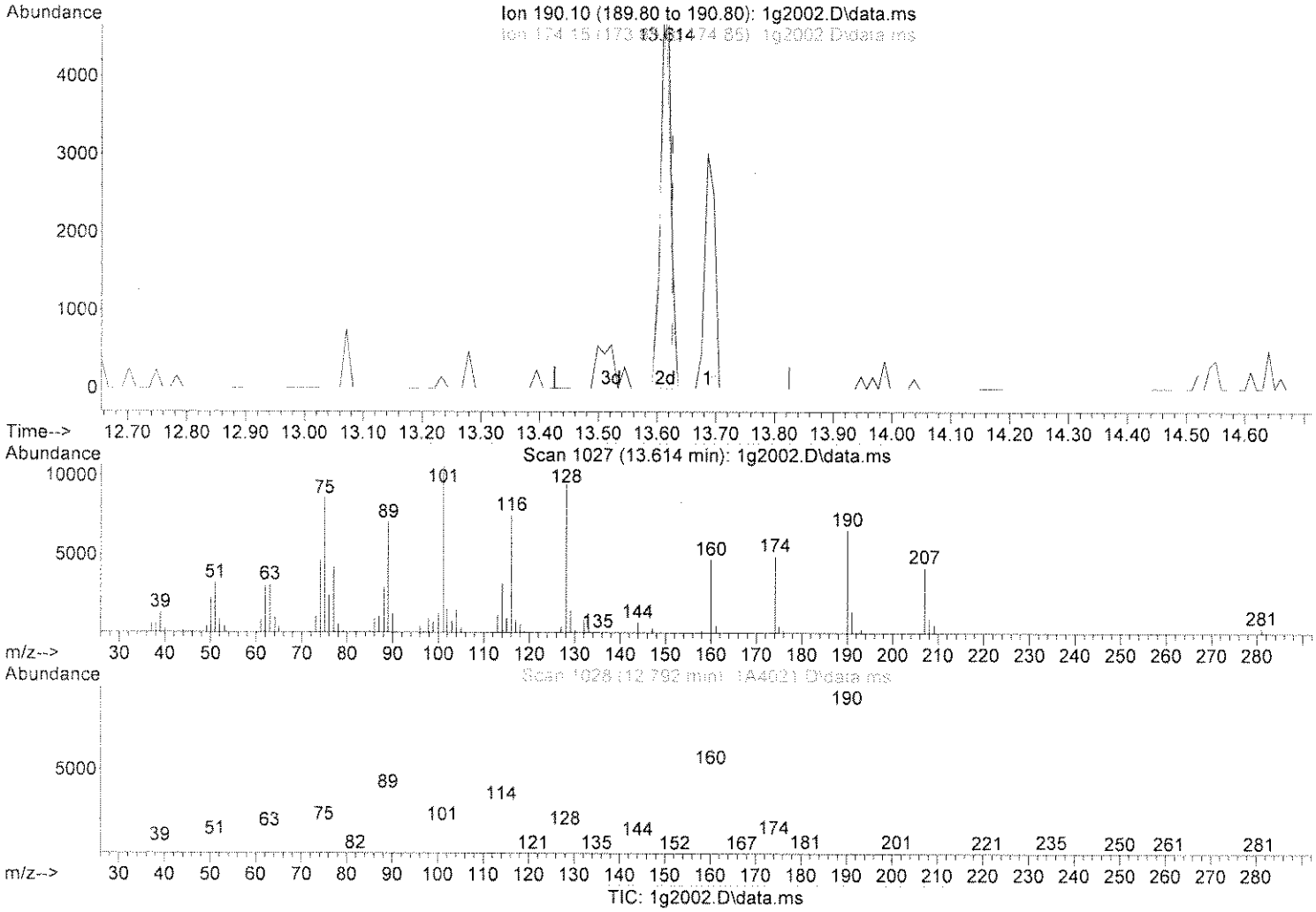
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Human integration
[ ] Baseline drop for split peaks
[ ] Other:

Review by/date: JA 7-3-13
Review by/date: RC 07/03/13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2002.D
Acq On : 2 Jul 2013 9:09
Operator : jfi
Sample : aa24784-cal1
Misc : a3g0028
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 02 20:35:29 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration



(114) 4-Nitroquinoline-1-oxide

13.614min (-0.012) 3.01 ug/mL m

response 6527

Ion	Exp%	Act%
190.10	100	100
174.15	12.30	1.95
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Correct integration [ ] Manual integration
Select one: [ ] Not for manual integration
[ ] Poor or a broken peak tailing, but please accept
[ ] Incorrect peak selection/peak not found
[ ] Peak not found
[ ] Baseline drift or split peaks
[ ] Other:
Review by/date: 7-2-3-13
Review by/date: 07/23/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2003.D
Acq On : 2 Jul 2013 9:38
Operator : jfi
Sample : aa24784-cal2
Misc : a3g0029
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 02 20:39:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	401822	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.546	136	1562722	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.753	164	822387	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.633	188	1405061	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.262	240	789763	40.00	ug/mL	0.00
137) PERYLENE-d12	19.218	264	596815	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.387	112	163599	10.33	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 10.33%			
11) Phenol -D5 (acid surr)	6.476	99	188136	9.65	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 9.65%			
33) Nitrobenzene -D5 (b/n ...	7.636	82	190840	10.44	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 10.44%			
61) 2-Fluorobiphenyl (b/n ...	9.877	172	284752	9.28	ug/mL	0.00
Spiked Amount 100.000			Recovery = 9.28%			
91) 2,4,6-Tribromophenol (...	11.744	330	33248	9.43	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 9.43%			
120) Terphenyl -D14 (b/n surr)	14.610	244	183797	8.53	ug/mL	0.00
Spiked Amount 100.000			Recovery = 8.53%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.737	74	112201	10.567	ug/mL	83
3) Pyridine	3.777	79	187274	10.866	ug/mL	93
4) 2-Picoline	4.717	93	176683	10.491	ug/mL	97
5) N-Nitrosomethylethylamine	4.827	88	75770	10.028	ug/mL#	63
6) Methyl methanesulfonate	5.187	80	103656	10.204	ug/mL	93
8) 2-Fluorophenol	5.387	112	163599	10.328	ug/mL	94
9) N-Nitrosodiethylamine	5.677	102	73779	9.707	ug/mL#	75
10) Ethyl methanesulfonate	6.006	79	117058	9.871	ug/mL	98
12) Phenol -D5	6.476	99	188136	9.651	ug/mL	88
13) Pentachloroethane	6.636	167	63590	9.962	ug/mL	100
14) aniline	6.566	93	251305	9.794	ug/mL	93
15) Phenol	6.486	94	185660	9.852	ug/mL	91
16) Bis(2-chloroethyl)ether	6.616	93	145567	9.942	ug/mL	93
17) 2-Chlorophenol	6.716	128	147988	9.720	ug/mL	99
18) 1,3-Dichlorobenzene	6.906	146	182901	10.166	ug/mL	98
19) 1,4-Dichlorobenzene	6.996	146	181142	9.919	ug/mL	95
20) Benzyl Alcohol	7.116	108	91672	9.229	ug/mL	93
21) 1,2-Dichlorobenzene	7.186	146	171451	10.128	ug/mL	99
22) 2-Methylphenol	7.236	107	128691	10.023	ug/mL	84
23) Bis(2-chloroisopropyl)...	7.276	45	186953	10.232	ug/mL	96
24) Acetophenone	7.446	105	220315	9.631	ug/mL#	49
25) 3 & 4-Methylphenol	7.416	108	285943	17.956	ug/mL	99
26) N-Nitrosodi-n-propylamine	7.436	70	112276	9.579	ug/mL	99
27) N-Nitrosopyrrolidine	7.406	100	64597	8.435	ug/mL	98
28) N-Nitrosomorpholine	7.446	56	108922	10.132	ug/mL	94
29) Hexachloroethane	7.606	117	73011	10.117	ug/mL	97
30) o-Toluidine	7.496	106	241916	9.529	ug/mL	100
31) a,a-Dimethylphenethyla...	8.415	58	314956	9.848	ug/mL	94
34) Nitrobenzene -D5	7.636	82	190840	10.437	ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2003.D
Acq On : 2 Jul 2013 9:38
Operator : jfi
Sample : aa24784-cal2
Misc : a3g0029
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 02 20:39:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Nitrobenzene	7.666	77	174570	10.591	ug/mL	97
36)	N-Nitrosopiperidine	7.846	114	67307	9.320	ug/mL#	71
37)	Isophorone	7.946	82	264004	9.769	ug/mL	99
38)	2-Nitrophenol	8.062	139	69309	9.301	ug/mL	91
39)	2,4-Dimethylphenol	8.071	122	129520	9.650	ug/mL	99
40)	Bis(2-chloroethoxy)met...	8.192	93	160999	9.871	ug/mL	94
41)	o,o,o-Triethyl Phospho...	8.155	198	82685	9.624	ug/mL	91
42)	Benzoic Acid	8.155	105	133819	15.266	ug/mL#	66
43)	2,4-Dichlorophenol	8.350	162	106100	9.436	ug/mL	97
44)	1,2,4-Trichlorobenzene	8.471	180	138474	9.850	ug/mL	96
45)	Naphthalene	8.574	128	427733	9.581	ug/mL	99
46)	4-Chloroaniline	8.611	127	162954	9.369	ug/mL	97
47)	2,6-Dichlorophenol	8.629	162	108752	9.457	ug/mL	97
48)	Hexachloropropene	8.685	213	93919	9.676	ug/mL	99
49)	Hexachlorobutadiene	8.723	223	54900	10.051	ug/mL	97
50)	N-Nitrosodi-n-Butylamine	9.011	84	103370	9.489	ug/mL	91
51)	p-Phenylenediamine	9.039	108	79713	12.652	ug/mL	94
52)	4-Chloro-3-methylphenol	9.188	107	121513	9.508	ug/mL	94
53)	Safrole	9.300	162	93568	9.186	ug/mL	98
54)	2-Methylnaphthalene	9.430	142	274718	9.256	ug/mL	98
55)	1-Methylnaphthalene	9.560	142	308437	9.201	ug/mL	99
56)	Hexachlorocyclopentadiene	9.644	237	62626	8.701	ug/mL	99
58)	1,2,4,5-Tetrachloroben...	9.654	216	128370	9.258	ug/mL	98
59)	2,4,6-Trichlorophenol	9.775	196	75686	9.427	ug/mL	100
60)	2,4,5-Trichlorophenol	9.821	196	80684	9.268	ug/mL	99
62)	2-Fluorobiphenyl	9.877	172	284752	9.278	ug/mL	99
63)	Isosafrole	9.952	162	93234	9.384	ug/mL	99
64)	2-Chloronaphthalene	10.054	162	233487	9.296	ug/mL	100
65)	2-Nitroaniline	10.156	65	80836	9.695	ug/mL	99
66)	1,4-Naphthoquinone	10.249	158	71182	11.032	ug/mL	97
67)	Dimethyl phthalate	10.361	163	278468	9.731	ug/mL	100
68)	m-Dinitrobenzene	10.408	168	40140	9.428	ug/mL	86
69)	2,6-Dinitrotoluene	10.445	165	60703	9.579	ug/mL	98
70)	Acenaphthylene	10.575	152	388121	9.295	ug/mL	98
71)	3-Nitroaniline	10.669	138	56825	9.203	ug/mL	98
72)	Acenaphthene	10.799	154	252832	9.246	ug/mL	98
73)	2,4-Dinitrophenol	10.790	184	27177	10.112	ug/mL#	1
74)	Pentachlorobenzene	10.967	250	100304	9.314	ug/mL	100
75)	4-Nitrophenol	10.837	109	37207	9.260	ug/mL	91
76)	Dibenzofuran	11.014	168	330903	9.614	ug/mL	100
77)	2,4-Dinitrotoluene	10.958	165	78465	9.372	ug/mL	92
78)	2-Naphthylamine	11.098	143	187913	9.450	ug/mL	98
79)	1-Naphthylamine	11.191	143	219445	9.325	ug/mL	98
80)	2,3,4,6-Tetrachlorophenol	11.154	232	62056	9.136	ug/mL	98
81)	Diethyl phthalate	11.247	149	285982	10.089	ug/mL	100
82)	4-Chlorophenyl phenyl ...	11.423	204	135790	9.681	ug/mL	99
83)	Fluorene	11.443	166	275639	9.354	ug/mL	100
84)	Thionazin	11.353	107	52457	10.125	ug/mL	97
85)	5-Nitro-o-toluidine	11.433	152	70548	9.185	ug/mL#	80
86)	4-Nitroaniline	11.433	138	58378	9.426	ug/mL	92
87)	2-Methyl-4,6-dinitroph...	11.473	198	39370	8.500	ug/mL	88
88)	Diphenylamine/N-Nitros...	11.563	169	431422	18.577	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2003.D
Acq On : 2 Jul 2013 9:38
Operator : jfi
Sample : aa24784-cal2
Misc : a3g0029
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 02 20:39:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.563	169	431422	9.289	ug/mL	98
90)	DPH (as Azobenzene)	11.624	182	73866	9.850	ug/mL	91
92)	2,4,6-Tribromophenol	11.744	330	33248	9.430	ug/mL	93
94)	Sulfotepp	11.724	97	58493	10.084	ug/mL#	79
95)	Diallate	11.915	86	104182	9.901	ug/mL#	78
96)	Phorate	11.925	75	170583	10.048	ug/mL	97
97)	4-Bromophenylphenyl ether	12.036	248	81126	9.083	ug/mL	90
98)	Phenacetin	11.915	108	113906	8.908	ug/mL	97
99)	1,3,5-Trinitrobenzene	11.855	213	20462	7.366	ug/mL#	86
100)	Hexachlorobenzene	12.148	284	78029	8.946	ug/mL	90
101)	Dimethoate	12.136	87	97430	10.209	ug/mL	96
102)	4-Aminobiphenyl	12.367	169	250432	8.587	ug/mL	99
103)	Pentachlorophenol	12.390	266	41159	8.135	ug/mL	97
104)	Pronamide	12.414	173	74063	9.334	ug/mL	97
105)	Pentachloronitrobenzene	12.414	237	36363	9.963	ug/mL	99
106)	Phenanthrene	12.668	178	383191	9.497	ug/mL	99
107)	Disulfoton	12.587	88	146679	9.680	ug/mL	94
108)	Anthracene	12.725	178	379274	9.201	ug/mL	100
109)	Dinoseb	12.587	211	56541	7.598	ug/mL	97
110)	Carbazole	12.910	167	294301	8.905	ug/mL	99
111)	Methyl Parathion	13.060	109	82714	9.292	ug/mL	92
112)	Di-n-butyl phthalate	13.291	149	405228	9.097	ug/mL	100
113)	Parathion	13.545	109	48208	8.851	ug/mL	89
114)	4-Nitroquinoline-1-oxide	13.614	190	14716m	6.662	ug/mL	
115)	Methapyrilene	13.686	97	81674	11.274	ug/mL	100
116)	Isodrin	13.987	193	32821	9.274	ug/mL	87
117)	Fluoranthene	14.168	202	265443	9.093	ug/mL	94
118)	Benzidine	13.987	184	2809	11.715	ug/mL#	88
119)	Pyrene	14.460	202	265254	8.710	ug/mL	90
121)	Terphenyl -D14	14.610	244	183797	8.526	ug/mL	98
122)	Aramite	14.540	185	4092	7.828	ug/mL	82
123)	Benzylbutyl phthalate	15.243	149	103012	8.357	ug/mL	95
125)	p-(dimethylamino)azobe...	14.791	225	44911	8.538	ug/mL#	100
126)	Chlorobenzilate	14.841	251	63043	8.799	ug/mL#	84
127)	Famphur	15.920	218	446	N.D.		
128)	3,3'-Dimethylbenzidine	15.253	212	121456	11.604	ug/mL	96
129)	Kepone	0.000		0	N.D.		
130)	2-Acetylaminofluorene	15.644	181	56526	7.525	ug/mL	96
131)	3,3'-Dichlorobenzidine	16.151	252	63815	9.096	ug/mL	98
132)	Benzo(a)anthracene	16.239	228	215010	9.612	ug/mL	97
133)	Bis(2-ethylhexyl)phtha...	16.162	149	129142	8.546	ug/mL	97
134)	Chrysene	16.306	228	195757	9.675	ug/mL	96
135)	Di-n-octyl phthalate	17.474	149	167234	7.656	ug/mL	99
136)	Hexachlorophene	19.218	196	554	18.052	ug/mL#	1
138)	7,12-Dimethylbenz(a)an...	18.447	256	81143	8.153	ug/mL	99
139)	Benzo(b)fluoranthene	18.464	252	191052	8.986	ug/mL	96
140)	Benzo(k)fluoranthene	18.523	252	164486	9.225	ug/mL	96
141)	Benzo(a)pyrene	19.108	252	155810	9.041	ug/mL	95
142)	3-Methylcholanthrene	19.718	268	82980	9.414	ug/mL	95
143)	Indeno(1,2,3-cd)pyrene	20.982	276	166597	10.524	ug/mL	84
144)	Dibenzo(a,h)anthracene	21.001	278	145408	10.635	ug/mL	87
145)	Benzo(g,h,i)perylene	21.448	276	133861	11.327	ug/mL	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2003.D
Acq On : 2 Jul 2013 9:38
Operator : jfi
Sample : aa24784-cal2
Misc : a3g0029
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 02 20:39:53 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2003.D
Acq On : 2 Jul 2013 9:38
Operator : jfi
Sample : aa24784-cal2
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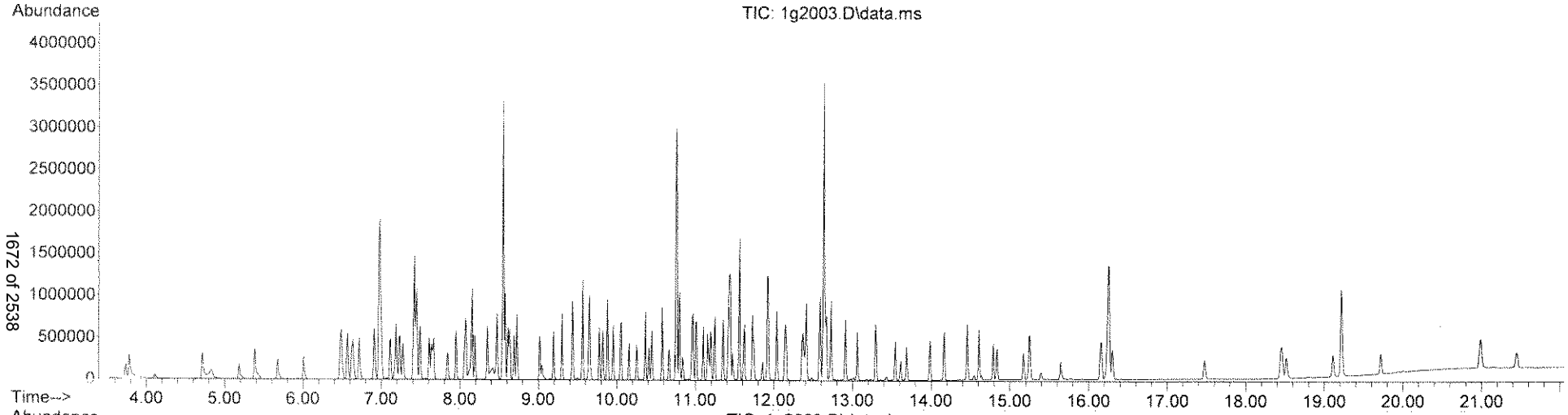
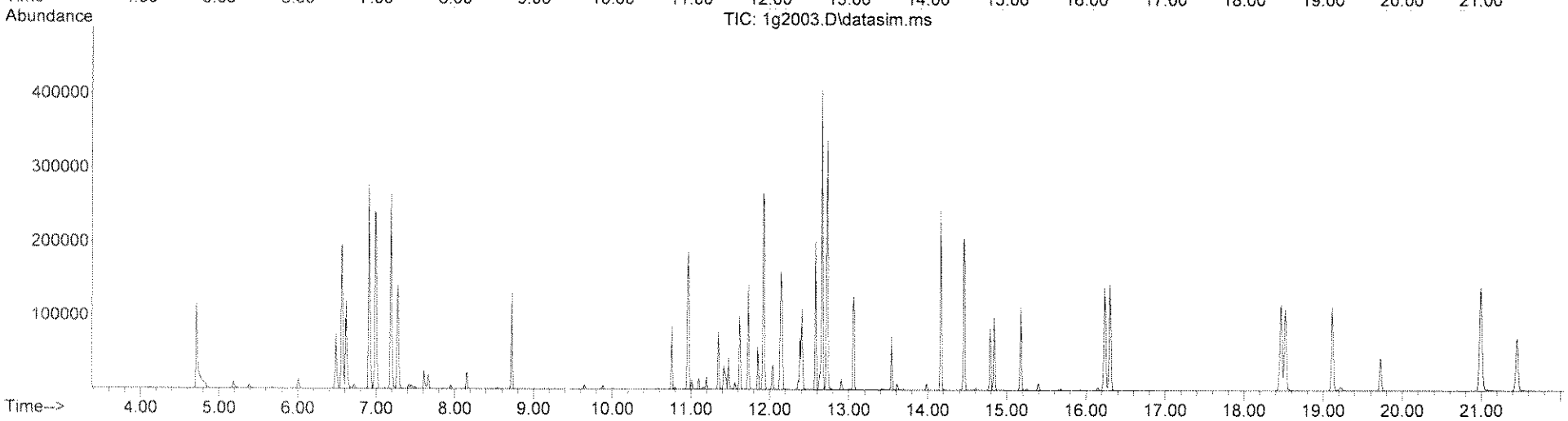
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

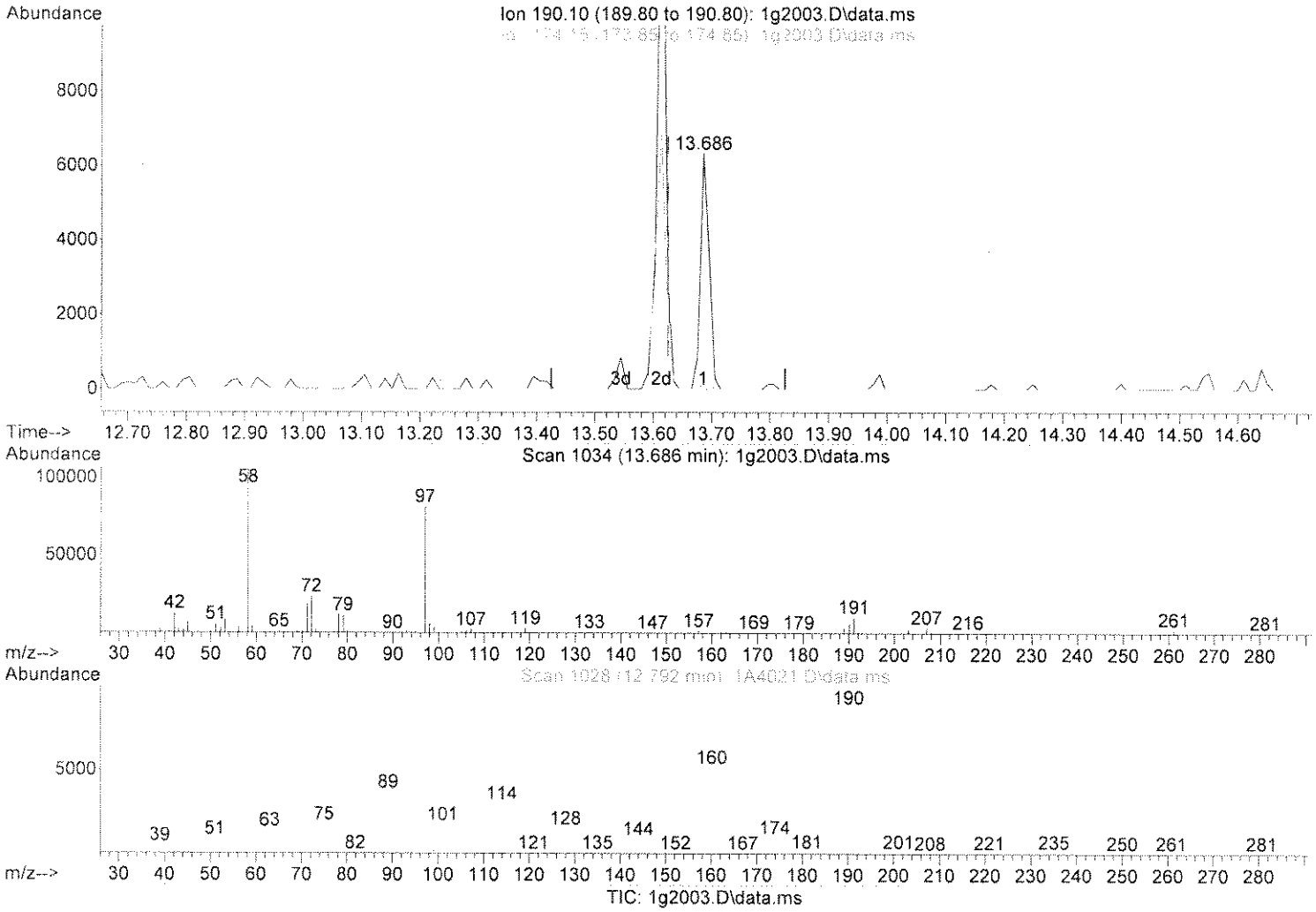




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2003.D
Acq On : 2 Jul 2013 9:38
Operator : jfi
Sample : aa24784-cal2
Misc : a3g0029
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 02 20:35:32 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration



(114) 4-Nitroquinoline-1-oxide

13.686min (+0.060) 2.98 ug/mL

response 6586

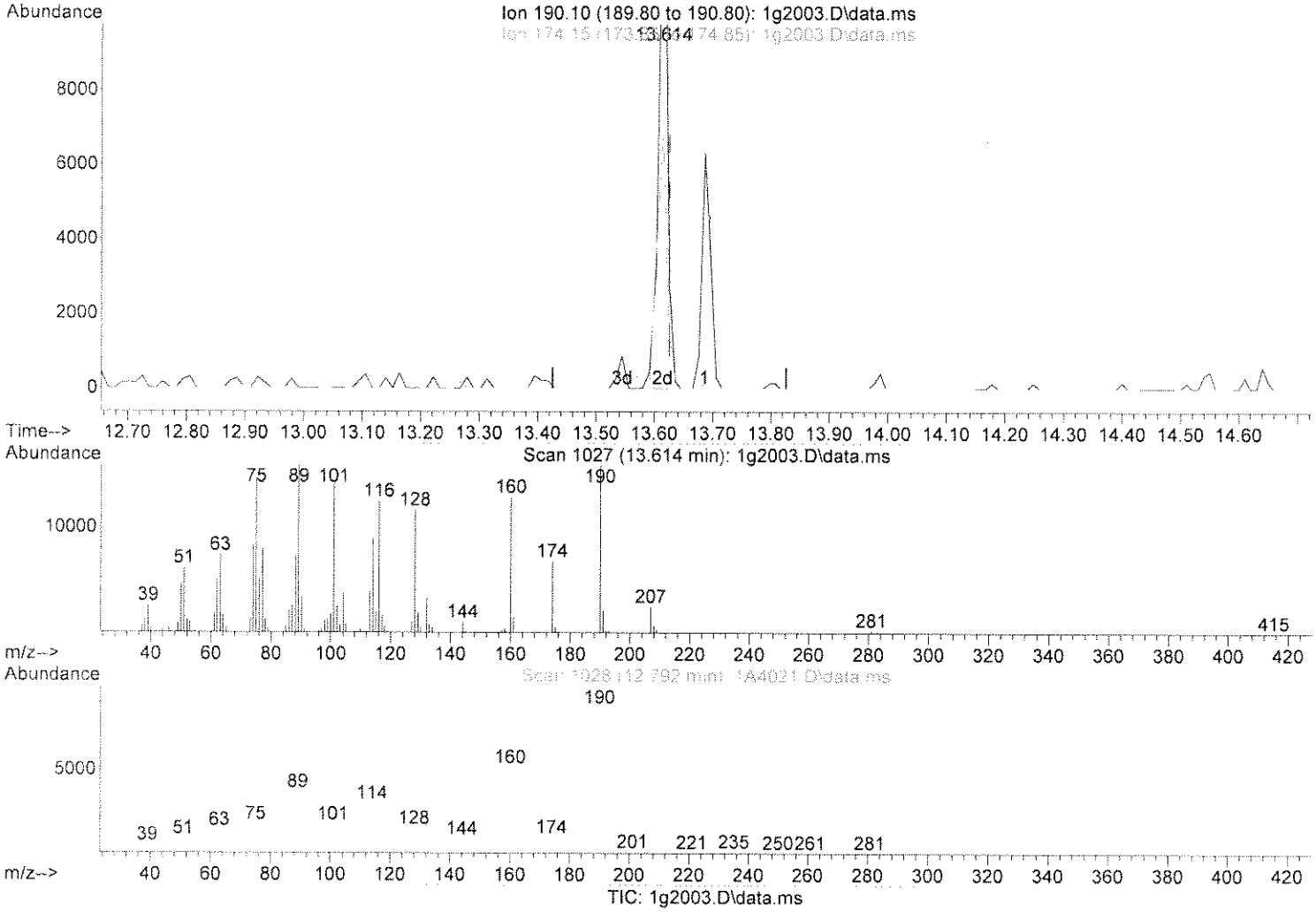
Ion	Exp%	Act%
190.10	100	100
174.15	12.30	3.20
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak shape, baseline selection)
[ ] Incorrect peak label, compound not found
[ ] Other:
[ ] Baseline drop for split peaks
[ ] Other:
Review by/date: 070313
Review by/date: 070313

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2003.D
Acq On : 2 Jul 2013 9:38
Operator : jfi
Sample : aa24784-cal2
Misc : a3g0029
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 02 20:35:32 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration



(114) 4-Nitroquinoline-1-oxide

13.614min (-0.012) 6.66 ug/mL m

response 14716

Ion	Exp%	Act%
190.10	100	100
174.15	12.30	1.43
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Correct integration (peak width, baseline selection)
[ ] Incorrect peak integration not found
[ ] Wrong peak
[ ] Baseline, valley for split peaks
[ ] Other:

Review by/date: 7/2/13
Review by/date: KC070213

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2004.D
Acq On : 2 Jul 2013 10:06
Operator : jfi
Sample : aa24784-cal3
Misc : a3g0030
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 20:35:34 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	460653	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.546	136	1853394	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	936904	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.633	188	1530249	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.262	240	933222	40.00	ug/mL	0.00
137) PERYLENE-d12	19.226	264	707651	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.387	112	339772	18.71	ug/mL	0.00
Spiked Amount 100.000			Recovery = 18.71%			
11) Phenol -D5 (acid surr)	6.476	99	420599	18.82	ug/mL	0.00
Spiked Amount 100.000			Recovery = 18.82%			
33) Nitrobenzene -D5 (b/n ...	7.646	82	413785	19.08	ug/mL	0.00
Spiked Amount 100.000			Recovery = 19.08%			
61) 2-Fluorobiphenyl (b/n ...	9.877	172	649994	18.59	ug/mL	0.00
Spiked Amount 100.000			Recovery = 18.59%			
91) 2,4,6-Tribromophenol (...	11.744	330	73720	18.35	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 18.35%			
120) Terphenyl -D14 (b/n surr)	14.610	244	431316	18.37	ug/mL	0.00
Spiked Amount 100.000			Recovery = 18.37%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.737	74	223283	18.343	ug/mL	84
3) Pyridine	3.777	79	372578	18.857	ug/mL	98
4) 2-Picoline	4.707	93	364634	18.886	ug/mL	94
5) N-Nitrosomethylethylamine	4.837	88	163191	18.840	ug/mL#	59
6) Methyl methanesulfonate	5.187	80	218256	18.742	ug/mL	94
8) 2-Fluorophenol	5.387	112	339772	18.711	ug/mL	92
9) N-Nitrosodiethylamine	5.677	102	162954	18.702	ug/mL#	70
10) Ethyl methanesulfonate	6.007	79	253501	18.647	ug/mL	96
12) Phenol -D5	6.476	99	420599	18.820	ug/mL	85
13) Pentachloroethane	6.636	167	133948	18.305	ug/mL	100
14) aniline	6.566	93	556063	18.903	ug/mL	92
15) Phenol	6.496	94	406154	18.800	ug/mL	90
16) Bis(2-chloroethyl)ether	6.616	93	316061	18.831	ug/mL	90
17) 2-Chlorophenol	6.716	128	330820	18.953	ug/mL	96
18) 1,3-Dichlorobenzene	6.906	146	386737	18.749	ug/mL	99
19) 1,4-Dichlorobenzene	6.996	146	391173	18.683	ug/mL	99
20) Benzyl Alcohol	7.116	108	212017	18.619	ug/mL	89
21) 1,2-Dichlorobenzene	7.186	146	367821	18.954	ug/mL	100
22) 2-Methylphenol	7.236	107	375014	18.683	ug/mL	86
23) Bis(2-chloroisopropyl)...	7.276	45	385229	18.392	ug/mL	93
24) Acetophenone	7.446	105	476494	18.169	ug/mL	93
25) 3 & 4-Methylphenol	7.426	108	651281	35.674	ug/mL	100
26) N-Nitrosodi-n-propylamine	7.446	70	248693	18.508	ug/mL	98
27) N-Nitrosopyrrolidine	7.416	100	157536	17.943	ug/mL	98
28) N-Nitrosomorpholine	7.456	56	227269	18.440	ug/mL	91
29) Hexachloroethane	7.606	117	156869	18.960	ug/mL	98
30) o-Toluidine	7.496	106	536425	18.430	ug/mL	100
31) a,a-Dimethylphenethyla...	8.462	58	648177	17.678	ug/mL	98
34) Nitrobenzene -D5	7.646	82	413785	19.080	ug/mL	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2004.D
Acq On : 2 Jul 2013 10:06
Operator : jfi
Sample : aa24784-cal3
Misc : a3g0030
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 20:35:34 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.666	77	371345	18.996	ug/mL	94
36) N-Nitrosopiperidine	7.846	114	161778	18.887	ug/mL#	62
37) Isophorone	7.956	82	597438	18.640	ug/mL	100
38) 2-Nitrophenol	8.062	139	167871	18.994	ug/mL	88
39) 2,4-Dimethylphenol	8.080	122	303691	19.078	ug/mL	96
40) Bis(2-chloroethoxy)met...	8.192	93	357884	18.501	ug/mL	99
41) o,o,o-Triethyl Phospho...	8.155	198	190931	18.737	ug/mL	94
42) Benzoic Acid	8.192	105	366691	35.270	ug/mL#	68
43) 2,4-Dichlorophenol	8.350	162	247686	18.574	ug/mL	98
44) 1,2,4-Trichlorobenzene	8.471	180	315037	18.895	ug/mL	96
45) Naphthalene	8.574	128	974292	18.401	ug/mL	99
46) 4-Chloroaniline	8.611	127	388295	18.823	ug/mL	98
47) 2,6-Dichlorophenol	8.639	162	253834	18.612	ug/mL	99
48) Hexachloropropene	8.685	213	217038	18.853	ug/mL	99
49) Hexachlorobutadiene	8.723	223	123274	19.029	ug/mL	95
50) N-Nitrosodi-n-Butylamine	9.021	84	233575	18.079	ug/mL	88
51) p-Phenylenediamine	9.049	108	165740	22.181	ug/mL	93
52) 4-Chloro-3-methylphenol	9.197	107	271804	17.932	ug/mL	91
53) Safrole	9.300	162	224667	18.597	ug/mL	95
54) 2-Methylnaphthalene	9.440	142	641554	18.225	ug/mL	97
55) 1-Methylnaphthalene	9.561	142	707297	17.790	ug/mL	97
56) Hexachlorocyclopentadiene	9.644	237	154402	18.088	ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.654	216	301246	19.071	ug/mL	98
59) 2,4,6-Trichlorophenol	9.775	196	171863	18.790	ug/mL	99
60) 2,4,5-Trichlorophenol	9.821	196	183216	18.473	ug/mL	97
62) 2-Fluorobiphenyl	9.877	172	649994	18.591	ug/mL	99
63) Isosafrole	9.952	162	212994	18.817	ug/mL	97
64) 2-Chloronaphthalene	10.054	162	537438	18.782	ug/mL	98
65) 2-Nitroaniline	10.156	65	176830	18.617	ug/mL	92
66) 1,4-Naphthoquinone	10.259	158	159607	21.713	ug/mL	95
67) Dimethyl phthalate	10.371	163	589437	18.081	ug/mL	100
68) m-Dinitrobenzene	10.408	168	88675	18.281	ug/mL#	80
69) 2,6-Dinitrotoluene	10.445	165	131018	18.147	ug/mL	92
70) Acenaphthylene	10.576	152	868586	18.260	ug/mL	99
71) 3-Nitroaniline	10.669	138	133120	18.924	ug/mL	97
72) Acenaphthene	10.799	154	559189	17.949	ug/mL	98
73) 2,4-Dinitrophenol	10.799	184	73797	18.551	ug/mL#	50
74) Pentachlorobenzene	10.967	250	216105	17.615	ug/mL	97
75) 4-Nitrophenol	10.846	109	86326	18.858	ug/mL	92
76) Dibenzofuran	11.014	168	720447	18.373	ug/mL	96
77) 2,4-Dinitrotoluene	10.958	165	171831	18.015	ug/mL	98
78) 2-Naphthylamine	11.098	143	408622	18.037	ug/mL	98
79) 1-Naphthylamine	11.200	143	466765	17.411	ug/mL	99
80) 2,3,4,6-Tetrachlorophenol	11.154	232	139614	18.041	ug/mL	99
81) Diethyl phthalate	11.247	149	594505	18.409	ug/mL	99
82) 4-Chlorophenyl phenyl ...	11.423	204	292635	18.312	ug/mL	98
83) Fluorene	11.443	166	594917	17.722	ug/mL	99
84) Thionazin	11.353	107	106898	18.111	ug/mL	96
85) 5-Nitro-o-toluidine	11.433	152	159139	18.187	ug/mL	95
86) 4-Nitroaniline	11.443	138	138805	19.673	ug/mL	88
87) 2-Methyl-4,6-dinitroph...	11.483	198	99770	18.908	ug/mL	100
88) Diphenylamine/N-Nitros...	11.564	169	925636	34.987	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2004.D
Acq On : 2 Jul 2013 10:06
Operator : jfi
Sample : aa24784-cal3
Misc : a3g0030
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 20:35:34 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) N-Nitrosodiphenylamine	11.564	169	925636	17.493	ug/mL	98
90) DPH (as Azobenzene)	11.624	182	155159	18.161	ug/mL	91
92) 2,4,6-Tribromophenol	11.744	330	73720	18.353	ug/mL	100
94) Sulfotepp	11.724	97	113440	17.956	ug/mL	86
95) Diallate	11.915	86	209507	18.281	ug/mL#	78
96) Phorate	11.925	75	331475	17.928	ug/mL	99
97) 4-Bromophenylphenyl ether	12.046	248	177944	18.293	ug/mL	95
98) Phenacetin	11.925	108	277052	19.894	ug/mL	100
99) 1,3,5-Trinitrobenzene	11.855	213	57598	19.037	ug/mL	92
100) Hexachlorobenzene	12.160	284	169447	17.838	ug/mL	96
101) Dimethoate	12.148	87	211681	20.367	ug/mL	92
102) 4-Aminobiphenyl	12.367	169	587937	18.511	ug/mL	100
103) Pentachlorophenol	12.391	266	100897	18.310	ug/mL	97
104) Pronamide	12.414	173	161201	18.654	ug/mL	96
105) Pentachloronitrobenzene	12.414	237	74194	18.665	ug/mL	92
106) Phenanthrene	12.668	178	802068	18.251	ug/mL	99
107) Disulfoton	12.587	88	308906	18.719	ug/mL	95
108) Anthracene	12.725	178	800644	17.834	ug/mL	98
109) Dinoseb	12.587	211	147342	18.180	ug/mL	99
110) Carbazole	12.910	167	670198	18.620	ug/mL	98
111) Methyl Parathion	13.060	109	194504	20.063	ug/mL	91
112) Di-n-butyl phthalate	13.303	149	896785	18.485	ug/mL	97
113) Parathion	13.545	109	114811	19.355	ug/mL	92
114) 4-Nitroquinoline-1-oxide	13.614	190	45044	18.724	ug/mL	67
115) Methapyrilene	13.686	97	169531	21.487	ug/mL	99
116) Isodrin	13.987	193	74020	19.205	ug/mL	88
117) Fluoranthene	14.168	202	595695	18.736	ug/mL	95
118) Benzidine	13.987	184	4183	16.018	ug/mL#	82
119) Pyrene	14.460	202	622623	18.773	ug/mL	94
121) Terphenyl -D14	14.610	244	431316	18.372	ug/mL	100
122) Aramite	14.550	185	11113	19.520	ug/mL	94
123) Benzylbutyl phthalate	15.243	149	245450	18.284	ug/mL	98
125) p-(dimethylamino)azobe...	14.791	225	114768	18.465	ug/mL#	100
126) Chlorobenzilate	14.841	251	150590	17.787	ug/mL	91
127) Famphur	15.920	218	12363	19.472	ug/mL	84
128) 3,3'-Dimethylbenzidine	15.253	212	258832	20.928	ug/mL	99
129) Kepone	19.964	272	104	27.573	ug/mL#	100
130) 2-Acetylaminofluorene	15.655	181	169266	19.069	ug/mL	99
131) 3,3'-Dichlorobenzidine	16.151	252	160346	19.341	ug/mL	99
132) Benzo(a)anthracene	16.240	228	485462	18.366	ug/mL	98
133) Bis(2-ethylhexyl)phtha...	16.162	149	310182	17.371	ug/mL	97
134) Chrysene	16.306	228	441729	18.475	ug/mL	97
135) Di-n-octyl phthalate	17.474	149	461652	17.886	ug/mL	100
136) Hexachlorophene	19.209	196	735	20.268	ug/mL#	91
138) 7,12-Dimethylbenz(a)an...	18.455	256	208973	17.709	ug/mL	95
139) Benzo(b)fluoranthene	18.472	252	445846	17.685	ug/mL	95
140) Benzo(k)fluoranthene	18.523	252	382190	18.077	ug/mL	95
141) Benzo(a)pyrene	19.116	252	373180	18.262	ug/mL	95
142) 3-Methylcholanthrene	19.726	268	193602	18.524	ug/mL	98
143) Indeno(1,2,3-cd)pyrene	20.982	276	341090	18.171	ug/mL	81
144) Dibenzo(a,h)anthracene	21.001	278	297212	18.333	ug/mL	88
145) Benzo(g,h,i)perylene	21.458	276	261039	18.629	ug/mL	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2004.D
Acq On : 2 Jul 2013 10:06
Operator : jfi
Sample : aa24784-cal3
Misc : a3g0030
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 02 20:35:34 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2004.D
Acq On : 2 Jul 2013 10:06
Operator : jfi
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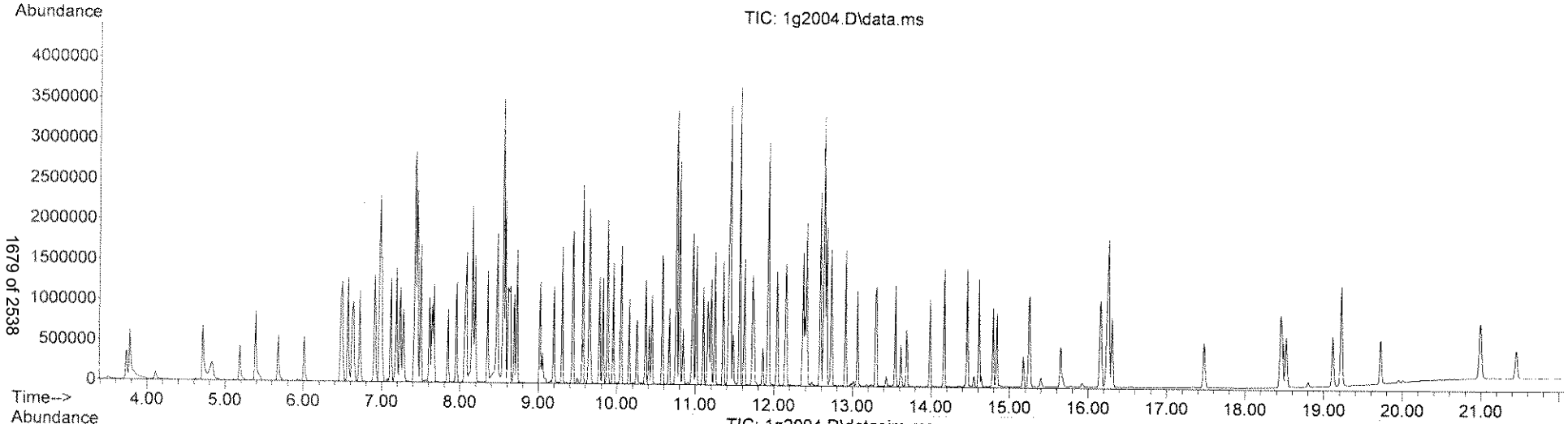
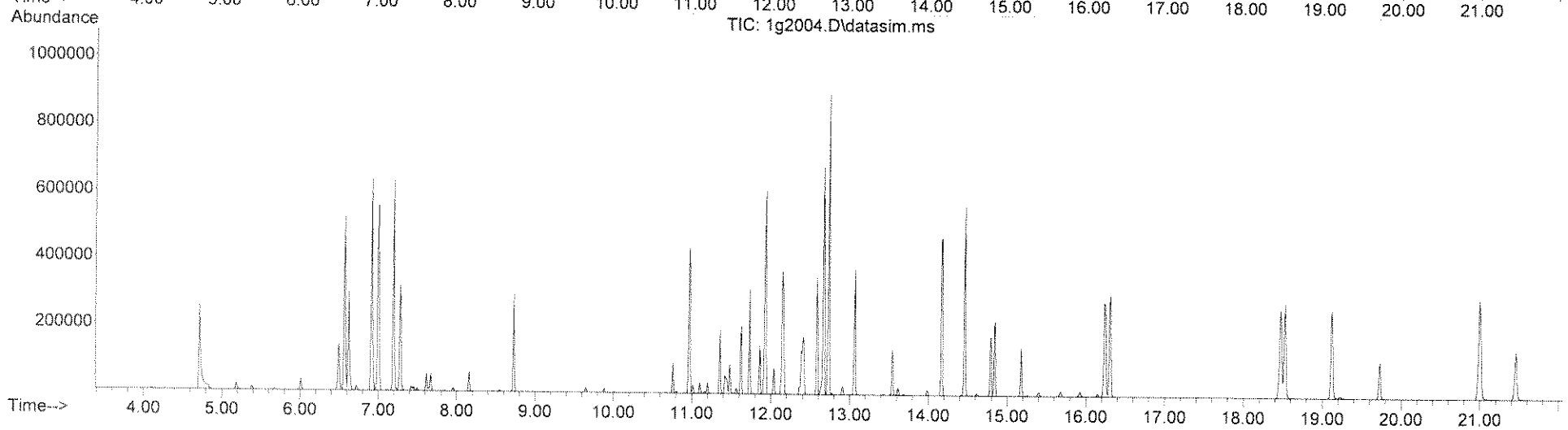




Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2005.D
Acq On : 2 Jul 2013 10:35
Operator : jfi
Sample : aa24784-cal4
Misc : a3g0031
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 20:35:36 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	423163	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.555	136	1737185	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	911540	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.633	188	1436295	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.261	240	844717	40.00	ug/mL	0.00
137) PERYLENE-d12	19.226	264	573637	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.387	112	678346	40.67	ug/mL	-0.01
Spiked Amount 100.000			Recovery = 40.67%			
11) Phenol -D5 (acid surr)	6.486	99	853306	41.56	ug/mL	0.00
Spiked Amount 100.000			Recovery = 41.56%			
33) Nitrobenzene -D5 (b/n ...	7.646	82	844291	41.54	ug/mL	0.00
Spiked Amount 100.000			Recovery = 41.54%			
61) 2-Fluorobiphenyl (b/n ...	9.886	172	1419057	41.72	ug/mL	0.00
Spiked Amount 100.000			Recovery = 41.72%			
91) 2,4,6-Tribromophenol (...	11.754	330	163494	41.83	ug/mL	0.00
Spiked Amount 100.000			Recovery = 41.83%			
120) Terphenyl -D14 (b/n surr)	14.610	244	887003	40.25	ug/mL	0.00
Spiked Amount 100.000			Recovery = 40.25%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.737	74	457343	40.900	ug/mL	83
3) Pyridine	3.777	79	731626	40.311	ug/mL	100
4) 2-Picoline	4.707	93	714993	40.315	ug/mL	95
5) N-Nitrosomethylethylamine	4.837	88	328214	41.249	ug/mL#	58
6) Methyl methanesulfonate	5.187	80	433414	40.515	ug/mL	93
8) 2-Fluorophenol	5.387	112	678346	40.665	ug/mL	92
9) N-Nitrosodiethylamine	5.677	102	333064	41.612	ug/mL#	71
10) Ethyl methanesulfonate	6.016	79	519264	41.581	ug/mL	95
12) Phenol -D5	6.486	99	853306	41.564	ug/mL	86
13) Pentachloroethane	6.636	167	274754	40.874	ug/mL	98
14) aniline	6.566	93	1118184	41.381	ug/mL	91
15) Phenol	6.506	94	809003	40.765	ug/mL	89
16) Bis(2-chloroethyl)ether	6.626	93	618914	40.141	ug/mL	93
17) 2-Chlorophenol	6.716	128	659847	41.153	ug/mL	97
18) 1,3-Dichlorobenzene	6.906	146	757419	39.974	ug/mL	100
19) 1,4-Dichlorobenzene	6.996	146	768145	39.939	ug/mL	100
20) Benzyl Alcohol	7.116	108	441931	42.247	ug/mL	90
21) 1,2-Dichlorobenzene	7.186	146	713339	40.015	ug/mL	99
22) 2-Methylphenol	7.236	107	555167	41.057	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.276	45	799465	41.550	ug/mL	96
24) Acetophenone	7.456	105	992088	41.181	ug/mL	95
25) 3 & 4-Methylphenol	7.436	108	1428938	85.204	ug/mL	99
26) N-Nitrosodi-n-propylamine	7.456	70	529206	42.873	ug/mL	95
27) N-Nitrosopyrrolidine	7.426	100	352656	43.725	ug/mL	94
28) N-Nitrosomorpholine	7.466	56	476901	42.123	ug/mL	94
29) Hexachloroethane	7.606	117	306456	40.322	ug/mL	100
30) o-Toluidine	7.506	106	1077565	40.303	ug/mL	99
31) a,a-Dimethylphenethyla...	8.508	58	1447885	42.988	ug/mL	97
34) Nitrobenzene -D5	7.646	82	844291	41.536	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2005.D
Acq On : 2 Jul 2013 10:35
Operator : jfi
Sample : aa24784-cal4
Misc : a3g0031
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 20:35:36 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.676	77	756699	41.298	ug/mL	94
36) N-Nitrosopiperidine	7.856	114	347014	43.223	ug/mL#	63
37) Isophorone	7.956	82	1273465	42.390	ug/mL	100
38) 2-Nitrophenol	8.061	139	348103	42.021	ug/mL	90
39) 2,4-Dimethylphenol	8.080	122	611022	40.952	ug/mL	98
40) Bis(2-chloroethoxy)met...	8.201	93	782311	43.148	ug/mL	100
41) o,o,o-Triethyl Phospho...	8.164	198	404787	42.381	ug/mL	94
42) Benzoic Acid	8.229	105	856161	87.859	ug/mL#	66
43) 2,4-Dichlorophenol	8.359	162	511260	40.904	ug/mL	98
44) 1,2,4-Trichlorobenzene	8.471	180	643654	41.186	ug/mL	96
45) Naphthalene	8.574	128	2031280	40.929	ug/mL	100
46) 4-Chloroaniline	8.620	127	799796	41.364	ug/mL	99
47) 2,6-Dichlorophenol	8.639	162	525435	41.104	ug/mL	99
48) Hexachloropropene	8.695	213	441700	40.934	ug/mL	100
49) Hexachlorobutadiene	8.723	223	247584	40.776	ug/mL	97
50) N-Nitrosodi-n-Butylamine	9.020	84	517241	42.712	ug/mL	90
51) p-Phenylenediamine	9.058	108	215671	30.794	ug/mL	90
52) 4-Chloro-3-methylphenol	9.197	107	580248	40.843	ug/mL	92
53) Safrole	9.300	162	465996	41.153	ug/mL	96
54) 2-Methylnaphthalene	9.439	142	1375046	41.675	ug/mL	96
55) 1-Methylnaphthalene	9.570	142	1547502	41.527	ug/mL	97
56) Hexachlorocyclopentadiene	9.644	237	333773	41.718	ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.654	216	645616	42.009	ug/mL	98
59) 2,4,6-Trichlorophenol	9.775	196	371917	41.794	ug/mL	98
60) 2,4,5-Trichlorophenol	9.821	196	394088	40.839	ug/mL	98
62) 2-Fluorobiphenyl	9.886	172	1419057	41.717	ug/mL	100
63) Isosafrole	9.951	162	458311	41.615	ug/mL	98
64) 2-Chloronaphthalene	10.054	162	1154255	41.461	ug/mL	97
65) 2-Nitroaniline	10.156	65	393818	42.615	ug/mL	93
66) 1,4-Naphthoquinone	10.259	158	315977	44.182	ug/mL	96
67) Dimethyl phthalate	10.370	163	1322069	41.683	ug/mL	100
68) m-Dinitrobenzene	10.417	168	197260	41.799	ug/mL#	79
69) 2,6-Dinitrotoluene	10.454	165	288673	41.096	ug/mL	91
70) Acenaphthylene	10.585	152	1928400	41.668	ug/mL	100
71) 3-Nitroaniline	10.678	138	287617	42.024	ug/mL	97
72) Acenaphthene	10.799	154	1227785	40.507	ug/mL	98
73) 2,4-Dinitrophenol	10.799	184	185343	40.258	ug/mL#	80
74) Pentachlorobenzene	10.976	250	487304	40.826	ug/mL	100
75) 4-Nitrophenol	10.855	109	190793	42.839	ug/mL	92
76) Dibenzofuran	11.014	168	1559518	40.877	ug/mL	96
77) 2,4-Dinitrotoluene	10.967	165	386493	41.647	ug/mL	98
78) 2-Naphthylamine	11.107	143	908996	41.242	ug/mL	97
79) 1-Naphthylamine	11.200	143	1056933	40.522	ug/mL	99
80) 2,3,4,6-Tetrachlorophenol	11.163	232	315985	41.969	ug/mL	98
81) Diethyl phthalate	11.256	149	1292748	41.144	ug/mL	99
82) 4-Chlorophenyl phenyl ...	11.423	204	613221	39.441	ug/mL	98
83) Fluorene	11.453	166	1336406	40.918	ug/mL	100
84) Thionazin	11.363	107	238745	41.573	ug/mL	97
85) 5-Nitro-o-toluidine	11.443	152	355292	41.734	ug/mL	98
86) 4-Nitroaniline	11.453	138	292451	42.603	ug/mL	90
87) 2-Methyl-4,6-dinitroph...	11.493	198	219827	42.821	ug/mL	96
88) Diphenylamine/N-Nitros...	11.573	169	2112170	82.057	ug/mL	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2005.D
Acq On : 2 Jul 2013 10:35
Operator : jfi
Sample : aa24784-cal4
Misc : a3g0031
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 20:35:36 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.573	169	2112170	41.028	ug/mL	99
90)	DPH (as Azobenzene)	11.624	182	334047	40.188	ug/mL	91
92)	2,4,6-Tribromophenol	11.754	330	163494	41.835	ug/mL	96
94)	Sulfotepp	11.734	97	256264	43.217	ug/mL	86
95)	Diallate	11.925	86	460704	42.829	ug/mL#	79
96)	Phorate	11.935	75	743993	42.872	ug/mL	99
97)	4-Bromophenylphenyl ether	12.046	248	372783	40.830	ug/mL	93
98)	Phenacetin	11.935	108	559888	42.834	ug/mL	97
99)	1,3,5-Trinitrobenzene	11.865	213	125846	44.315	ug/mL	95
100)	Hexachlorobenzene	12.160	284	379658	42.581	ug/mL	97
101)	Dimethoate	12.148	87	426716	43.742	ug/mL	92
102)	4-Aminobiphenyl	12.367	169	1243492	41.712	ug/mL	100
103)	Pentachlorophenol	12.390	266	225749	43.646	ug/mL	99
104)	Pronamide	12.425	173	361827	44.609	ug/mL	97
105)	Pentachloronitrobenzene	12.413	237	157618	42.247	ug/mL	94
106)	Phenanthrene	12.667	178	1694296	41.077	ug/mL	99
107)	Disulfoton	12.587	88	666377	43.022	ug/mL	94
108)	Anthracene	12.737	178	1790950	42.501	ug/mL	99
109)	Dinoseb	12.598	211	350969	46.138	ug/mL	98
110)	Carbazole	12.910	167	1380591	40.866	ug/mL	99
111)	Methyl Parathion	13.060	109	402887	44.277	ug/mL	91
112)	Di-n-butyl phthalate	13.302	149	2013566	44.220	ug/mL	98
113)	Parathion	13.545	109	248205	44.580	ug/mL	91
114)	4-Nitroquinoline-1-oxide	13.626	190	107403	47.566	ug/mL	95
115)	Methapyrilene	13.696	97	319207	43.103	ug/mL	99
116)	Isodrin	13.987	193	154685	42.759	ug/mL	90
117)	Fluoranthene	14.168	202	1241466	41.602	ug/mL	95
118)	Benzidine	13.987	184	10199	41.610	ug/mL#	86
119)	Pyrene	14.459	202	1282015	41.183	ug/mL	95
121)	Terphenyl -D14	14.610	244	887003	40.253	ug/mL	100
122)	Aramite	14.550	185	24974	46.738	ug/mL	92
123)	Benzylbutyl phthalate	15.243	149	542202	43.033	ug/mL	99
125)	p-(dimethylamino)azobe...	14.791	225	242953	43.183	ug/mL#	100
126)	Chlorobenzilate	14.841	251	330498	43.127	ug/mL	91
127)	Famphur	15.931	218	39984	69.574	ug/mL	93
128)	3,3'-Dimethylbenzidine	15.263	212	445306	39.778	ug/mL	95
129)	Kepone	19.930	272	76	22.260	ug/mL#	100
130)	2-Acetylaminofluorene	15.655	181	384294	47.830	ug/mL	98
131)	3,3'-Dichlorobenzidine	16.151	252	323991	43.175	ug/mL	97
132)	Benzo(a)anthracene	16.239	228	988395	41.311	ug/mL	99
133)	Bis(2-ethylhexyl)phtha...	16.162	149	718908	44.479	ug/mL	97
134)	Chrysene	16.317	228	905989	41.862	ug/mL	97
135)	Di-n-octyl phthalate	17.485	149	1085943	46.482	ug/mL	99
136)	Hexachlorophene	19.218	196	504	15.354	ug/mL#	1
138)	7,12-Dimethylbenz(a)an...	18.463	256	401017	41.922	ug/mL	98
139)	Benzo(b)fluoranthene	18.480	252	853849	41.781	ug/mL	95
140)	Benzo(k)fluoranthene	18.531	252	708345	41.331	ug/mL	96
141)	Benzo(a)pyrene	19.116	252	696352	42.039	ug/mL	96
142)	3-Methylcholanthrene	19.726	268	353286	41.699	ug/mL	98
143)	Indeno(1,2,3-cd)pyrene	20.991	276	624401	41.036	ug/mL	84
144)	Dibenzo(a,h)anthracene	21.001	278	546904	41.616	ug/mL	90
145)	Benzo(g,h,i)perylene	21.458	276	461778	40.653	ug/mL	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2005.D
Acq On : 2 Jul 2013 10:35
Operator : jfi
Sample : aa24784-cal4
Misc : a3g0031
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 20:35:36 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

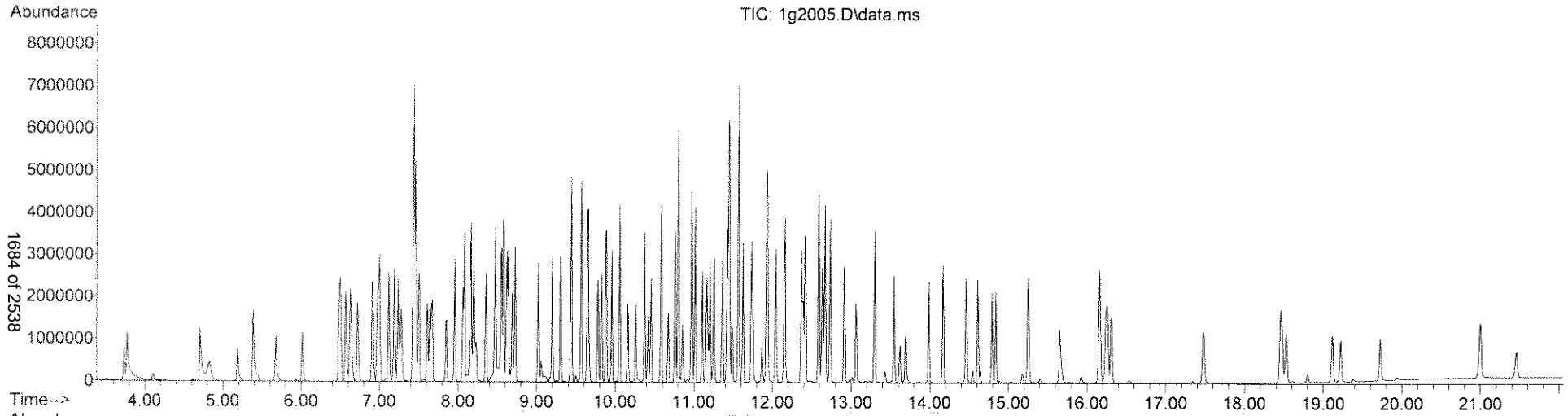
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

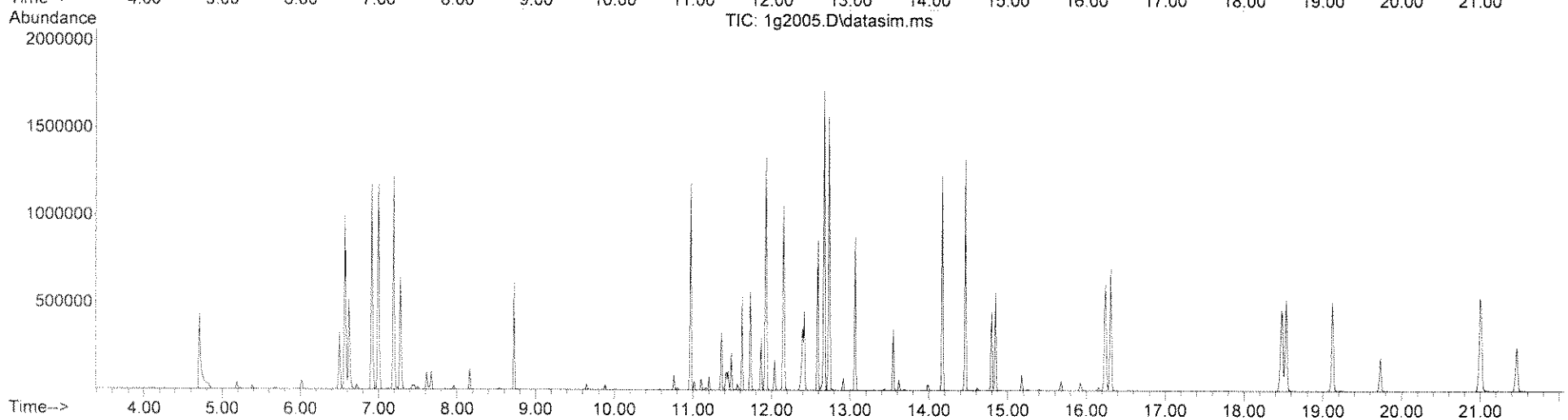
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2005.D
Acq On : 2 Jul 2013 10:35
Operator : jfi
Sample : aa24784-cal4
Misc : a3g0031
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 02 20:35:36 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2006.D
Acq On : 2 Jul 2013 11:03
Operator : jfi
Sample : aa24784-cal5
Misc : a3g0032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 20:35:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	482335	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.555	136	1977928	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	1068606	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.644	188	1699960	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.262	240	971732	40.00	ug/mL	0.00
137) PERYLENE-d12	19.226	264	611159	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.397	112	922419	48.51	ug/mL	0.00
Spiked Amount 100.000			Recovery = 48.51%			
11) Phenol -D5 (acid surr)	6.486	99	1149977	49.14	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.14%			
33) Nitrobenzene -D5 (b/n ...	7.646	82	1128719	48.77	ug/mL	0.00
Spiked Amount 100.000			Recovery = 48.77%			
61) 2-Fluorobiphenyl (b/n ...	9.886	172	1962043	49.20	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.20%			
91) 2,4,6-Tribromophenol (...	11.754	330	228305	49.83	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.83%			
120) Terphenyl -D14 (b/n surr)	14.610	244	1269113	48.66	ug/mL	0.00
Spiked Amount 100.000			Recovery = 48.66%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.747	74	621153	48.735	ug/mL	81
3) Pyridine	3.787	79	1010656	48.853	ug/mL	99
4) 2-Picoline	4.717	93	990659	49.005	ug/mL	94
5) N-Nitrosomethylethylamine	4.837	88	441588	48.689	ug/mL#	58
6) Methyl methanesulfonate	5.197	80	590033	48.389	ug/mL	94
8) 2-Fluorophenol	5.397	112	922419	48.513	ug/mL	92
9) N-Nitrosodiethylamine	5.677	102	454618	49.831	ug/mL#	71
10) Ethyl methanesulfonate	6.017	79	686547	48.232	ug/mL	94
12) Phenol -D5	6.486	99	1149977	49.143	ug/mL	85
13) Pentachloroethane	6.636	167	371064	48.430	ug/mL	100
14) aniline	6.576	93	1514927	49.185	ug/mL	91
15) Phenol	6.506	94	1079390	47.717	ug/mL	91
16) Bis(2-chloroethyl)ether	6.626	93	854845	48.641	ug/mL	92
17) 2-Chlorophenol	6.726	128	897378	49.101	ug/mL	96
18) 1,3-Dichlorobenzene	6.916	146	1058959	49.032	ug/mL	99
19) 1,4-Dichlorobenzene	6.996	146	1067135	48.678	ug/mL	99
20) Benzyl Alcohol	7.126	108	600828	50.391	ug/mL	90
21) 1,2-Dichlorobenzene	7.186	146	980405	48.249	ug/mL	99
22) 2-Methylphenol	7.236	107	746219	48.416	ug/mL	95
23) Bis(2-chloroisopropyl)...	7.276	45	1057516	48.218	ug/mL	95
24) Acetophenone	7.456	105	1328374	48.376	ug/mL	93
25) 3 & 4-Methylphenol	7.436	108	1932331	101.085	ug/mL	99
26) N-Nitrosodi-n-propylamine	7.456	70	688915	48.965	ug/mL	95
27) N-Nitrosopyrrolidine	7.436	100	480775	52.298	ug/mL	93
28) N-Nitrosomorpholine	7.476	56	619356	47.994	ug/mL	92
29) Hexachloroethane	7.616	117	424698	49.024	ug/mL	98
30) o-Toluidine	7.506	106	1528075	50.141	ug/mL	98
31) a,a-Dimethylphenethyla...	8.555	58	1949446	50.779	ug/mL	86
34) Nitrobenzene -D5	7.646	82	1128719	48.770	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2006.D
Acq On : 2 Jul 2013 11:03
Operator : jfi
Sample : aa24784-cal5
Misc : a3g0032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 20:35:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.676	77	1005737	48.209	ug/mL	94
36) N-Nitrosopiperidine	7.856	114	451503	49.393	ug/mL#	65
37) Isophorone	7.966	82	1709763	49.986	ug/mL	99
38) 2-Nitrophenol	8.062	139	466387	49.447	ug/mL	90
39) 2,4-Dimethylphenol	8.090	122	840580	49.481	ug/mL	96
40) Bis(2-chloroethoxy)met...	8.201	93	983110	47.623	ug/mL	97
41) o,o,o-Triethyl Phospho...	8.164	198	533969	49.102	ug/mL	92
42) Benzoic Acid	8.257	105	1180233	106.374	ug/mL#	67
43) 2,4-Dichlorophenol	8.360	162	698144	49.057	ug/mL	99
44) 1,2,4-Trichlorobenzene	8.471	180	863341	48.520	ug/mL	96
45) Naphthalene	8.583	128	2776605	49.137	ug/mL	99
46) 4-Chloroaniline	8.620	127	1076296	48.889	ug/mL	98
47) 2,6-Dichlorophenol	8.639	162	715216	49.140	ug/mL	98
48) Hexachloropropene	8.695	213	607744	49.467	ug/mL	99
49) Hexachlorobutadiene	8.723	223	329852	47.712	ug/mL	98
50) N-Nitrosodi-n-Butylamine	9.021	84	698734	50.677	ug/mL	90
51) p-Phenylenediamine	9.067	108	397257	49.817	ug/mL	92
52) 4-Chloro-3-methylphenol	9.197	107	812909	50.255	ug/mL	90
53) Safrole	9.309	162	644893	50.020	ug/mL	95
54) 2-Methylnaphthalene	9.440	142	1860455	49.524	ug/mL	96
55) 1-Methylnaphthalene	9.570	142	2125982	50.107	ug/mL	96
56) Hexachlorocyclopentadiene	9.644	237	462439	50.765	ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.654	216	874527	48.540	ug/mL	99
59) 2,4,6-Trichlorophenol	9.784	196	524025	50.232	ug/mL	99
60) 2,4,5-Trichlorophenol	9.831	196	570434	50.425	ug/mL	100
62) 2-Fluorobiphenyl	9.886	172	1962043	49.201	ug/mL	100
63) Isosafrole	9.952	162	631126	48.884	ug/mL	97
64) 2-Chloronaphthalene	10.054	162	1588024	48.658	ug/mL	97
65) 2-Nitroaniline	10.166	65	555821	51.305	ug/mL	93
66) 1,4-Naphthoquinone	10.259	158	402965	48.063	ug/mL	96
67) Dimethyl phthalate	10.380	163	1876136	50.458	ug/mL	99
68) m-Dinitrobenzene	10.426	168	285534	51.611	ug/mL#	83
69) 2,6-Dinitrotoluene	10.454	165	405225	49.209	ug/mL	89
70) Acenaphthylene	10.585	152	2699585	49.757	ug/mL	99
71) 3-Nitroaniline	10.678	138	402846	50.208	ug/mL	99
72) Acenaphthene	10.809	154	1789974	50.374	ug/mL	99
73) 2,4-Dinitrophenol	10.809	184	279877	49.904	ug/mL#	88
74) Pentachlorobenzene	10.977	250	698099	49.890	ug/mL	99
75) 4-Nitrophenol	10.865	109	267649	51.263	ug/mL	96
76) Dibenzofuran	11.014	168	2199494	49.178	ug/mL	95
77) 2,4-Dinitrotoluene	10.977	165	561753	51.635	ug/mL	96
78) 2-Naphthylamine	11.107	143	1291228	49.973	ug/mL	97
79) 1-Naphthylamine	11.210	143	1547427	50.607	ug/mL	97
80) 2,3,4,6-Tetrachlorophenol	11.163	232	447674	50.720	ug/mL	98
81) Diethyl phthalate	11.256	149	1792998	48.678	ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.423	204	898217	49.281	ug/mL	97
83) Fluorene	11.453	166	1963701	51.287	ug/mL	100
84) Thionazin	11.363	107	331901	49.300	ug/mL	96
85) 5-Nitro-o-toluidine	11.443	152	514762	51.579	ug/mL	97
86) 4-Nitroaniline	11.463	138	411287	51.108	ug/mL	90
87) 2-Methyl-4,6-dinitroph...	11.493	198	305182	50.710	ug/mL	98
88) Diphenylamine/N-Nitros...	11.574	169	2997285	99.328	ug/mL	98

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2006.D
Acq On : 2 Jul 2013 11:03
Operator : jfi
Sample : aa24784-cal5
Misc : a3g0032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 20:35:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.574	169	2997285	49.664	ug/mL	98
90)	DPH (as Azobenzene)	11.624	182	484077	49.678	ug/mL	94
92)	2,4,6-Tribromophenol	11.754	330	228305	49.832	ug/mL	97
94)	Sulfotepp	11.734	97	343113	48.889	ug/mL	88
95)	Diallate	11.925	86	645833	50.728	ug/mL#	78
96)	Phorate	11.935	75	1025666	49.936	ug/mL	98
97)	4-Bromophenylphenyl ether	12.046	248	548757	50.782	ug/mL	94
98)	Phenacetin	11.945	108	787295	50.890	ug/mL	97
99)	1,3,5-Trinitrobenzene	11.875	213	175622	52.251	ug/mL	93
100)	Hexachlorobenzene	12.160	284	523304	49.589	ug/mL	96
101)	Dimethoate	12.160	87	580694	50.293	ug/mL	92
102)	4-Aminobiphenyl	12.379	169	1774762	50.300	ug/mL	99
103)	Pentachlorophenol	12.390	266	310866	50.781	ug/mL	98
104)	Pronamide	12.425	173	482066	50.215	ug/mL	97
105)	Pentachloronitrobenzene	12.414	237	217584	49.274	ug/mL	95
106)	Phenanthrene	12.668	178	2384659	48.847	ug/mL	99
107)	Disulfoton	12.587	88	883603	48.198	ug/mL	95
108)	Anthracene	12.737	178	2476658	49.658	ug/mL	99
109)	Dinoseb	12.598	211	493160	54.776	ug/mL	100
110)	Carbazole	12.922	167	1951769	48.813	ug/mL	98
111)	Methyl Parathion	13.060	109	536122	49.781	ug/mL	93
112)	Di-n-butyl phthalate	13.302	149	2678942	49.708	ug/mL	98
113)	Parathion	13.545	109	334725	50.796	ug/mL	93
114)	4-Nitroquinoline-1-oxide	13.626	190	148859	55.700	ug/mL	100
115)	Methapyrilene	13.696	97	390234	44.521	ug/mL	96
116)	Isodrin	13.987	193	204080	47.663	ug/mL	90
117)	Fluoranthene	14.168	202	1671451	47.324	ug/mL	95
118)	Benzidine	13.987	184	13660	47.087	ug/mL	90
119)	Pyrene	14.470	202	1766853	47.955	ug/mL	93
121)	Terphenyl -D14	14.610	244	1269113	48.661	ug/mL	100
122)	Aramite	14.550	185	33568	53.077	ug/mL	90
123)	Benzylbutyl phthalate	15.253	149	742544	49.793	ug/mL	100
125)	p-(dimethylamino)azobe...	14.791	225	337949	52.216	ug/mL#	100
126)	Chlorobenzilate	14.841	251	447642	50.779	ug/mL	92
127)	Famphur	15.931	218	42577	64.402	ug/mL	87
128)	3,3'-Dimethylbenzidine	15.263	212	576681	44.780	ug/mL	97
129)	Kepone	19.955	272	221	56.270	ug/mL#	100
130)	2-Acetylaminofluorene	15.655	181	509729	55.150	ug/mL	99
131)	3,3'-Dichlorobenzidine	16.162	252	441136	51.107	ug/mL	98
132)	Benzo(a)anthracene	16.240	228	1358439	49.356	ug/mL	97
133)	Bis(2-ethylhexyl)phtha...	16.162	149	976578	52.523	ug/mL	98
134)	Chrysene	16.317	228	1216762	48.873	ug/mL	98
135)	Di-n-octyl phthalate	17.485	149	1471241	54.743	ug/mL	100
136)	Hexachlorophene	19.226	196	619	16.393	ug/mL#	55
138)	7,12-Dimethylbenz(a)an...	18.464	256	537673	52.757	ug/mL	98
139)	Benzo(b)fluoranthene	18.480	252	1095014	50.292	ug/mL	95
140)	Benzo(k)fluoranthene	18.540	252	946145	51.817	ug/mL	96
141)	Benzo(a)pyrene	19.125	252	902318	51.128	ug/mL	96
142)	3-Methylcholanthrene	19.726	268	452248	50.103	ug/mL	98
143)	Indeno(1,2,3-cd)pyrene	20.991	276	761338	46.963	ug/mL	84
144)	Dibenzo(a,h)anthracene	21.010	278	662897	47.345	ug/mL	90
145)	Benzo(g,h,i)perylene	21.467	276	541823	44.772	ug/mL	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2006.D
Acq On : 2 Jul 2013 11:03
Operator : jfi
Sample : aa24784-cal5
Misc : a3g0032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 20:35:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

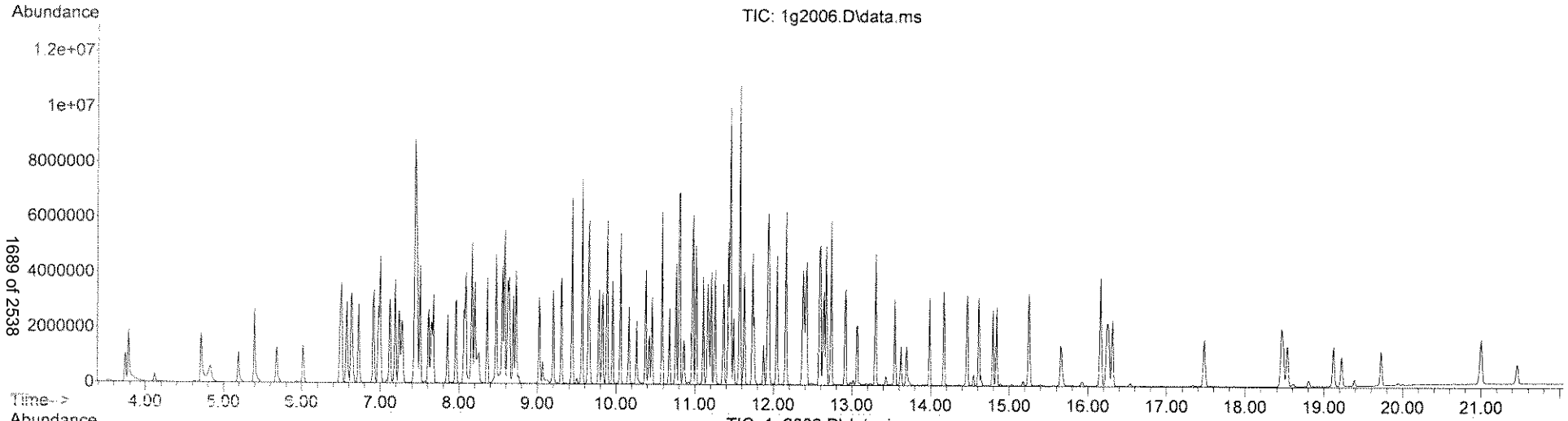
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

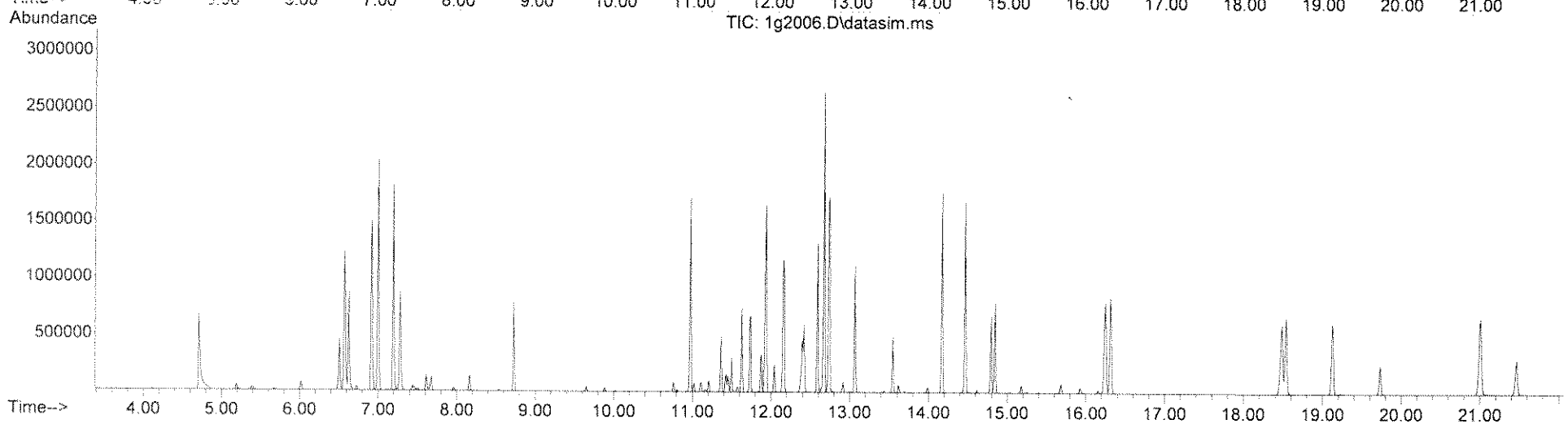
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2006.D
Acq On : 2 Jul 2013 11:03
Operator : jfi
Sample : aa24784-cal5
Misc : a3g0032
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 20:35:38 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2007.D
Acq On : 2 Jul 2013 11:32
Operator : jfi
Sample : aa24784-cal6
Misc : a3g0033
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 02 20:35:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	489297	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.555	136	2059517	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	1102041	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.645	188	1735814	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.273	240	978636	40.00	ug/mL	0.01
137) PERYLENE-d12	19.226	264	588232	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.397	112	1124536	58.30	ug/mL	0.00
Spiked Amount 100.000			Recovery = 58.30%			
11) Phenol -D5 (acid surr)	6.496	99	1429682	60.23	ug/mL	0.01
Spiked Amount 100.000			Recovery = 60.23%			
33) Nitrobenzene -D5 (b/n ...	7.656	82	1421973	59.01	ug/mL	0.01
Spiked Amount 100.000			Recovery = 59.01%			
61) 2-Fluorobiphenyl (b/n ...	9.887	172	2507978	60.98	ug/mL	0.00
Spiked Amount 100.000			Recovery = 60.98%			
91) 2,4,6-Tribromophenol (...	11.754	330	284550	60.22	ug/mL	0.00
Spiked Amount 100.000			Recovery = 60.22%			
120) Terphenyl -D14 (b/n surr)	14.620	244	1535305	57.65	ug/mL	0.01
Spiked Amount 100.000			Recovery = 57.65%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.748	74	747765	57.834	ug/mL	81
3) Pyridine	3.787	79	1211875	57.746	ug/mL	98
4) 2-Picoline	4.717	93	1182308	57.654	ug/mL	95
5) N-Nitrosomethylethylamine	4.837	88	541085	58.811	ug/mL#	60
6) Methyl methanesulfonate	5.197	80	718434	58.081	ug/mL	94
8) 2-Fluorophenol	5.397	112	1124536	58.302	ug/mL	92
9) N-Nitrosodiethylamine	5.687	102	561840	60.708	ug/mL#	72
10) Ethyl methanesulfonate	6.027	79	862529	59.733	ug/mL	94
12) Phenol -D5	6.496	99	1429682	60.227	ug/mL	85
13) Pentachloroethane	6.636	167	459224	59.083	ug/mL	100
14) aniline	6.576	93	1870428	59.863	ug/mL	91
15) Phenol	6.516	94	1401471	61.074	ug/mL	88
16) Bis(2-chloroethyl)ether	6.626	93	1044617	58.594	ug/mL	91
17) 2-Chlorophenol	6.726	128	1102191	59.449	ug/mL	96
18) 1,3-Dichlorobenzene	6.916	146	1288716	58.821	ug/mL	99
19) 1,4-Dichlorobenzene	6.996	146	1306615	58.754	ug/mL	100
20) Benzyl Alcohol	7.126	108	743818	61.496	ug/mL	91
21) 1,2-Dichlorobenzene	7.186	146	1211533	58.775	ug/mL	99
22) 2-Methylphenol	7.246	107	934938	59.798	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.286	45	1296898	58.292	ug/mL	95
24) Acetophenone	7.466	105	1696824	60.915	ug/mL	90
25) 3 & 4-Methylphenol	7.446	108	2432292	125.429	ug/mL	98
26) N-Nitrosodi-n-propylamine	7.466	70	850000	59.554	ug/mL	95
27) N-Nitrosopyrrolidine	7.446	100	610601	65.475	ug/mL	93
28) N-Nitrosomorpholine	7.486	56	780169	59.596	ug/mL	94
29) Hexachloroethane	7.616	117	507886	57.793	ug/mL	99
30) o-Toluidine	7.506	106	1903102	61.558	ug/mL	98
31) a,a-Dimethylphenethyla...	8.583	58	2347166	60.269	ug/mL#	65
34) Nitrobenzene -D5	7.656	82	1421973	59.007	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2007.D
Acq On : 2 Jul 2013 11:32
Operator : jfi
Sample : aa24784-cal6
Misc : a3g0033
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 02 20:35:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Nitrobenzene	7.676	77	1249415	57.517	ug/mL	94
36)	N-Nitrosopiperidine	7.866	114	575240	60.436	ug/mL#	64
37)	Isophorone	7.966	82	2130959	59.832	ug/mL	100
38)	2-Nitrophenol	8.071	139	599093	61.001	ug/mL	91
39)	2,4-Dimethylphenol	8.090	122	1049696	59.343	ug/mL	97
40)	Bis(2-chloroethoxy)met...	8.201	93	1264410	58.823	ug/mL	97
41)	o,o,o-Triethyl Phospho...	8.164	198	671653	59.316	ug/mL	95
42)	Benzoic Acid	8.276	105	1497484	129.621	ug/mL#	69
43)	2,4-Dichlorophenol	8.369	162	891652	60.173	ug/mL	99
44)	1,2,4-Trichlorobenzene	8.471	180	1084465	58.532	ug/mL	96
45)	Naphthalene	8.583	128	3552118	60.371	ug/mL	99
46)	4-Chloroaniline	8.630	127	1384805	60.411	ug/mL	99
47)	2,6-Dichlorophenol	8.648	162	923328	60.926	ug/mL	99
48)	Hexachloropropene	8.695	213	771140	60.280	ug/mL	99
49)	Hexachlorobutadiene	8.732	223	415075	57.661	ug/mL	99
50)	N-Nitrosodi-n-Butylamine	9.030	84	868797	60.514	ug/mL	91
51)	p-Phenylenediamine	9.077	108	436878	52.615	ug/mL	88
52)	4-Chloro-3-methylphenol	9.207	107	1018517	60.471	ug/mL	90
53)	Safrole	9.309	162	818042	60.936	ug/mL	93
54)	2-Methylnaphthalene	9.440	142	2360482	60.345	ug/mL	96
55)	1-Methylnaphthalene	9.570	142	2709104	61.321	ug/mL	96
56)	Hexachlorocyclopentadiene	9.644	237	595245	62.755	ug/mL	100
58)	1,2,4,5-Tetrachloroben...	9.654	216	1127587	60.687	ug/mL	98
59)	2,4,6-Trichlorophenol	9.784	196	647421	60.178	ug/mL	98
60)	2,4,5-Trichlorophenol	9.831	196	712831	61.101	ug/mL	98
62)	2-Fluorobiphenyl	9.887	172	2507978	60.984	ug/mL	100
63)	Isosafrole	9.961	162	808425	60.717	ug/mL	96
64)	2-Chloronaphthalene	10.054	162	2032476	60.386	ug/mL	96
65)	2-Nitroaniline	10.166	65	680725	60.928	ug/mL	91
66)	1,4-Naphthoquinone	10.259	158	437402	50.588	ug/mL	96
67)	Dimethyl phthalate	10.380	163	2268871	59.169	ug/mL	100
68)	m-Dinitrobenzene	10.427	168	346047	60.651	ug/mL	100
69)	2,6-Dinitrotoluene	10.464	165	511316	60.209	ug/mL	89
70)	Acenaphthylene	10.585	152	3406057	60.874	ug/mL	99
71)	3-Nitroaniline	10.678	138	502915	60.779	ug/mL	99
72)	Acenaphthene	10.809	154	2292395	62.556	ug/mL	99
73)	2,4-Dinitrophenol	10.809	184	353279	59.253	ug/mL#	85
74)	Pentachlorobenzene	10.977	250	883301	61.211	ug/mL	100
75)	4-Nitrophenol	10.865	109	319822	59.397	ug/mL	94
76)	Dibenzofuran	11.023	168	2795355	60.604	ug/mL	95
77)	2,4-Dinitrotoluene	10.977	165	699391	62.337	ug/mL	93
78)	2-Naphthylamine	11.107	143	1598916	60.004	ug/mL	97
79)	1-Naphthylamine	11.210	143	1901282	60.293	ug/mL	99
80)	2,3,4,6-Tetrachlorophenol	11.163	232	557790	61.278	ug/mL	98
81)	Diethyl phthalate	11.257	149	2226639	58.617	ug/mL	98
82)	4-Chlorophenyl phenyl ...	11.423	204	1112184	59.169	ug/mL	96
83)	Fluorene	11.453	166	2391502	60.565	ug/mL	100
84)	Thionazin	11.373	107	403195	58.073	ug/mL	97
85)	5-Nitro-o-toluidine	11.453	152	635888	61.783	ug/mL	95
86)	4-Nitroaniline	11.463	138	489834	59.022	ug/mL	90
87)	2-Methyl-4,6-dinitroph...	11.503	198	386772	62.317	ug/mL	98
88)	Diphenylamine/N-Nitros...	11.584	169	3851503	123.764	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2007.D
Acq On : 2 Jul 2013 11:32
Operator : jfi
Sample : aa24784-cal6
Misc : a3g0033
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 02 20:35:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.584	169	3851503	61.882	ug/mL	98
90)	DPH (as Azobenzene)	11.634	182	614940	61.193	ug/mL	94
92)	2,4,6-Tribromophenol	11.754	330	284550	60.224	ug/mL	100
94)	Sulfotepp	11.734	97	416163	58.073	ug/mL	89
95)	Diallate	11.925	86	767875	59.068	ug/mL#	79
96)	Phorate	11.935	75	1231629	58.725	ug/mL	99
97)	4-Bromophenylphenyl ether	12.046	248	676030	61.268	ug/mL	96
98)	Phenacetin	11.945	108	936830	59.305	ug/mL	98
99)	1,3,5-Trinitrobenzene	11.885	213	202478	58.997	ug/mL	95
100)	Hexachlorobenzene	12.160	284	640119	59.406	ug/mL	97
101)	Dimethoate	12.160	87	625862	53.086	ug/mL	93
102)	4-Aminobiphenyl	12.379	169	2244027	62.286	ug/mL	98
103)	Pentachlorophenol	12.402	266	385422	61.659	ug/mL	98
104)	Pronamide	12.425	173	557285	56.851	ug/mL	96
105)	Pentachloronitrobenzene	12.425	237	266899	59.193	ug/mL	94
106)	Phenanthrene	12.679	178	3056519	61.316	ug/mL	99
107)	Disulfoton	12.598	88	1128197	60.269	ug/mL	94
108)	Anthracene	12.737	178	2943466	57.799	ug/mL	98
109)	Dinoseb	12.598	211	571455	62.161	ug/mL	99
110)	Carbazole	12.922	167	2480313	60.750	ug/mL	99
111)	Methyl Parathion	13.072	109	639566	58.159	ug/mL	91
112)	Di-n-butyl phthalate	13.303	149	3246431	58.993	ug/mL	98
113)	Parathion	13.545	109	387754	57.628	ug/mL	95
114)	4-Nitroquinoline-1-oxide	13.626	190	172475	63.204	ug/mL	93
115)	Methapyrilene	13.696	97	422925	47.254	ug/mL	99
116)	Isodrin	13.987	193	251756	57.583	ug/mL	90
117)	Fluoranthene	14.178	202	2089583	57.940	ug/mL	95
118)	Benzidine	13.987	184	17063	57.602	ug/mL	86
119)	Pyrene	14.470	202	2123224	56.437	ug/mL	93
121)	Terphenyl -D14	14.620	244	1535305	57.652	ug/mL	99
122)	Aramite	14.550	185	39033	60.444	ug/mL	90
123)	Benzylbutyl phthalate	15.253	149	923019	60.616	ug/mL	96
125)	p-(dimethylamino)azobe...	14.791	225	404166	62.007	ug/mL#	100
126)	Chlorobenzilate	14.841	251	533175	60.054	ug/mL	91
127)	Famphur	15.931	218	39514	59.347	ug/mL	89
128)	3,3'-Dimethylbenzidine	15.263	212	679058	52.357	ug/mL	96
129)	Kepone	19.955	272	189	47.782	ug/mL#	100
130)	2-Acetylaminofluorene	15.666	181	622838	66.912	ug/mL	99
131)	3,3'-Dichlorobenzidine	16.162	252	541286	62.261	ug/mL	98
132)	Benzo(a)anthracene	16.251	228	1629133	58.773	ug/mL	98
133)	Bis(2-ethylhexyl)phtha...	16.162	149	1197556	63.954	ug/mL	97
134)	Chrysene	16.317	228	1487384	59.341	ug/mL	97
135)	Di-n-octyl phthalate	17.485	149	1825034	67.428	ug/mL	100
136)	Hexachlorophene	19.226	196	331	8.704	ug/mL#	1
138)	7,12-Dimethylbenz(a)an...	18.464	256	640139	65.259	ug/mL	97
139)	Benzo(b)fluoranthene	18.489	252	1340880	63.985	ug/mL	95
140)	Benzo(k)fluoranthene	18.540	252	1070167	60.893	ug/mL	95
141)	Benzo(a)pyrene	19.125	252	1047647	61.677	ug/mL	95
142)	3-Methylcholanthrene	19.735	268	524457	60.367	ug/mL	99
143)	Indeno(1,2,3-cd)pyrene	21.001	276	891099	57.110	ug/mL	83
144)	Dibenzo(a,h)anthracene	21.010	278	770085	57.145	ug/mL	87
145)	Benzo(g,h,i)perylene	21.467	276	638399	54.808	ug/mL	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2007.D
Acq On : 2 Jul 2013 11:32
Operator : jfi
Sample : aa24784-cal6
Misc : a3g0033
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 02 20:35:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

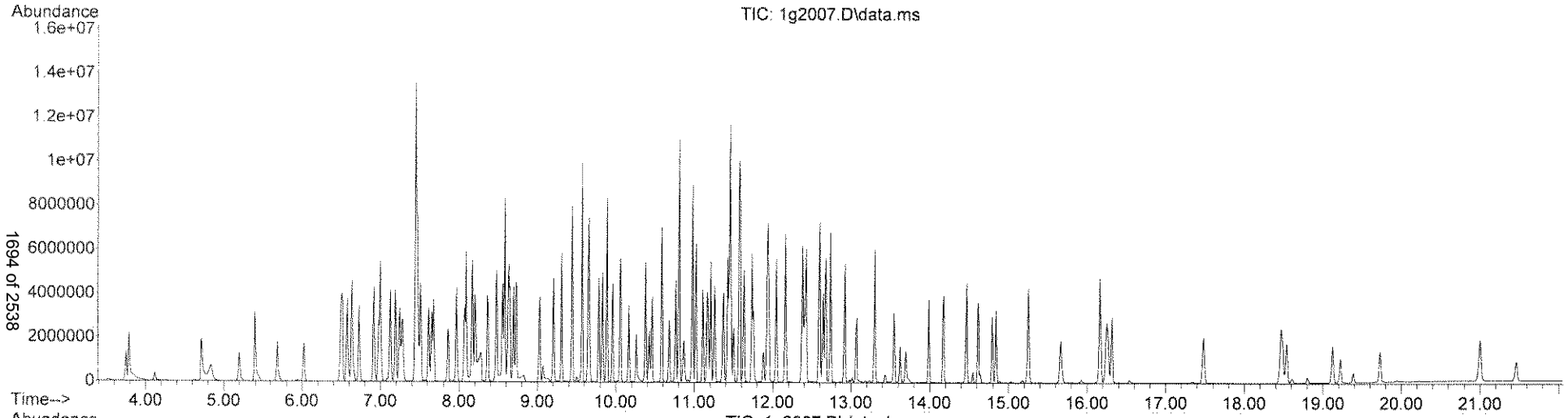
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

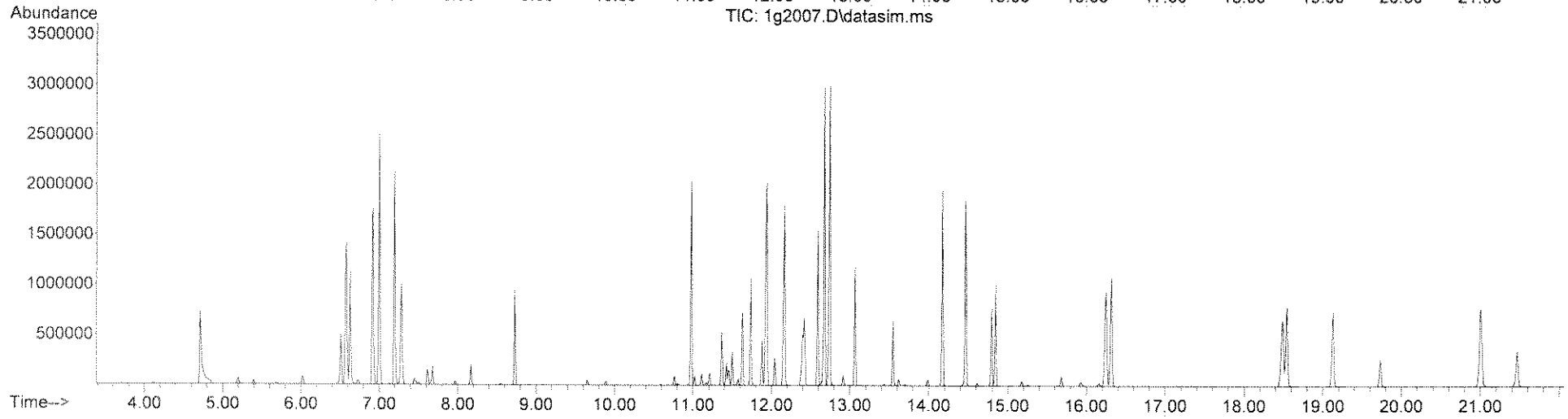
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2007.D
Acq On : 2 Jul 2013 11:32
Operator : jfi
Sample : aa24784-cal6
Misc : a3g0033
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 02 20:35:40 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2008.D
Acq On : 2 Jul 2013 12:00
Operator : jfi
Sample : aa24784-cal7
Misc : a3g0034
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 02 20:35:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	181925	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.546	136	760531	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	413775	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.633	188	674949	40.00	ug/mL	-0.01
124) CHRYSENE-d12	16.262	240	388418	40.00	ug/mL	0.00
137) PERYLENE-d12	19.218	264	247482	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.377	112	609513	84.99	ug/mL	-0.02
Spiked Amount 100.000			Recovery = 84.99%			
11) Phenol -D5 (acid surr)	6.476	99	759880	86.09	ug/mL	0.00
Spiked Amount 100.000			Recovery = 86.09%			
33) Nitrobenzene -D5 (b/n ...	7.646	82	800899	90.00	ug/mL	0.00
Spiked Amount 100.000			Recovery = 90.00%			
61) 2-Fluorobiphenyl (b/n ...	9.886	172	1347725	87.28	ug/mL	0.00
Spiked Amount 100.000			Recovery = 87.28%			
91) 2,4,6-Tribromophenol (...	11.754	330	161694	91.15	ug/mL	0.00
Spiked Amount 100.000			Recovery = 91.15%			
120) Terphenyl -D14 (b/n surr)	14.610	244	916396	88.50	ug/mL	0.00
Spiked Amount 100.000			Recovery = 88.50%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.697	74	425095	88.427	ug/mL	84
3) Pyridine	3.747	79	670258	85.899	ug/mL	99
4) 2-Picoline	4.687	93	650131	85.266	ug/mL	96
5) N-Nitrosomethylethylamine	4.817	88	301713	88.200	ug/mL#	62
6) Methyl methanesulfonate	5.177	80	406915	88.477	ug/mL	94
8) 2-Fluorophenol	5.377	112	609513	84.991	ug/mL	94
9) N-Nitrosodiethylamine	5.667	102	304911	88.610	ug/mL#	74
10) Ethyl methanesulfonate	6.007	79	476738	88.797	ug/mL	95
12) Phenol -D5	6.476	99	759880	86.095	ug/mL	88
13) Pentachloroethane	6.636	167	248839	86.107	ug/mL	100
14) aniline	6.566	93	1008206	86.786	ug/mL	95
15) Phenol	6.496	94	742774	87.058	ug/mL	91
16) Bis(2-chloroethyl)ether	6.616	93	577568	87.132	ug/mL	92
17) 2-Chlorophenol	6.716	128	597170	86.630	ug/mL	98
18) 1,3-Dichlorobenzene	6.906	146	682937	83.837	ug/mL	100
19) 1,4-Dichlorobenzene	6.996	146	706238	85.413	ug/mL	100
20) Benzyl Alcohol	7.116	108	410040	91.177	ug/mL	90
21) 1,2-Dichlorobenzene	7.186	146	652795	85.175	ug/mL	98
22) 2-Methylphenol	7.236	107	517837	89.079	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.276	45	730462	88.304	ug/mL	96
24) Acetophenone	7.456	105	917804	88.616	ug/mL	96
25) 3 & 4-Methylphenol	7.436	108	1298965	180.160	ug/mL	99
26) N-Nitrosodi-n-propylamine	7.446	70	484112	91.226	ug/mL	96
27) N-Nitrosopyrrolidine	7.426	100	326704	94.222	ug/mL	94
28) N-Nitrosomorpholine	7.466	56	446726	91.780	ug/mL	93
29) Hexachloroethane	7.606	117	287357	87.945	ug/mL	98
30) o-Toluidine	7.496	106	1066232	92.759	ug/mL	99
31) a,a-Dimethylphenethyla...	8.536	58	1353855	93.497	ug/mL#	66
34) Nitrobenzene -D5	7.646	82	800899	89.999	ug/mL	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2008.D
Acq On : 2 Jul 2013 12:00
Operator : jfi
Sample : aa24784-cal7
Misc : a3g0034
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 02 20:35:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.666	77	691120	86.157	ug/mL	93
36) N-Nitrosopiperidine	7.846	114	317871	90.438	ug/mL#	65
37) Isophorone	7.956	82	1226395	93.247	ug/mL	100
38) 2-Nitrophenol	8.062	139	331432	91.387	ug/mL	90
39) 2,4-Dimethylphenol	8.080	122	576000	88.181	ug/mL	98
40) Bis(2-chloroethoxy)met...	8.201	93	718357	90.500	ug/mL	99
41) o,o,o-Triethyl Phospho...	8.164	198	369298	88.318	ug/mL	93
42) Benzoic Acid	8.229	105	854272	200.243	ug/mL#	67
43) 2,4-Dichlorophenol	8.360	162	482402	88.158	ug/mL	98
44) 1,2,4-Trichlorobenzene	8.471	180	584515	85.433	ug/mL	97
45) Naphthalene	8.574	128	1876065	86.346	ug/mL	99
46) 4-Chloroaniline	8.620	127	764162	90.273	ug/mL	99
47) 2,6-Dichlorophenol	8.639	162	499995	89.343	ug/mL	100
48) Hexachloropropene	8.695	213	425612	90.095	ug/mL	99
49) Hexachlorobutadiene	8.723	223	225092	84.677	ug/mL	97
50) N-Nitrosodi-n-Butylamine	9.021	84	497507	93.840	ug/mL	89
51) p-Phenylenediamine	9.058	108	236421	77.106	ug/mL	94
52) 4-Chloro-3-methylphenol	9.197	107	576625	92.709	ug/mL	92
53) Safrole	9.300	162	446105	89.988	ug/mL	96
54) 2-Methylnaphthalene	9.440	142	1299100	89.935	ug/mL	97
55) 1-Methylnaphthalene	9.570	142	1470698	90.148	ug/mL	97
56) Hexachlorocyclopentadiene	9.644	237	326291	93.155	ug/mL	99
58) 1,2,4,5-Tetrachloroben...	9.654	216	599802	85.978	ug/mL	98
59) 2,4,6-Trichlorophenol	9.775	196	362904	89.841	ug/mL	97
60) 2,4,5-Trichlorophenol	9.821	196	396619	90.546	ug/mL	100
62) 2-Fluorobiphenyl	9.886	172	1347725	87.282	ug/mL	100
63) Isosafrole	9.952	162	446974	89.410	ug/mL	98
64) 2-Chloronaphthalene	10.054	162	1126614	89.150	ug/mL	97
65) 2-Nitroaniline	10.156	65	396377	94.490	ug/mL	93
66) 1,4-Naphthoquinone	10.259	158	316476	97.485	ug/mL	95
67) Dimethyl phthalate	10.371	163	1295898	90.009	ug/mL	100
68) m-Dinitrobenzene	10.417	168	198524	92.672	ug/mL#	82
69) 2,6-Dinitrotoluene	10.454	165	293549	92.063	ug/mL	87
70) Acenaphthylene	10.585	152	1916121	91.209	ug/mL	99
71) 3-Nitroaniline	10.678	138	291811	93.928	ug/mL	98
72) Acenaphthene	10.799	154	1229533	89.363	ug/mL	100
73) 2,4-Dinitrophenol	10.799	184	194204	81.749	ug/mL#	90
74) Pentachlorobenzene	10.977	250	482945	89.135	ug/mL	99
75) 4-Nitrophenol	10.855	109	189594	93.781	ug/mL	95
76) Dibenzofuran	11.014	168	1523334	87.962	ug/mL	97
77) 2,4-Dinitrotoluene	10.967	165	386864	91.836	ug/mL	100
78) 2-Naphthylamine	11.107	143	924278	92.382	ug/mL	98
79) 1-Naphthylamine	11.201	143	1089391	92.010	ug/mL	99
80) 2,3,4,6-Tetrachlorophenol	11.163	232	307169	89.877	ug/mL	100
81) Diethyl phthalate	11.256	149	1298812	91.065	ug/mL	99
82) 4-Chlorophenyl phenyl ...	11.423	204	520546	87.927	ug/mL	98
83) Fluorene	11.453	166	1332567	89.882	ug/mL	100
84) Thionazin	11.363	107	242941	93.195	ug/mL	95
85) 5-Nitro-o-toluidine	11.443	152	353935	91.589	ug/mL	97
86) 4-Nitroaniline	11.453	138	393442	94.172	ug/mL	86
87) 2-Methyl-4,6-dinitroph...	11.493	198	225625	96.822	ug/mL	97
88) Diphenylamine/N-Nitros...	11.574	169	2096727	179.448	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2008.D
Acq On : 2 Jul 2013 12:00
Operator : jfi
Sample : aa24784-cal7
Misc : a3g0034
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 02 20:35:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.574	169	2096727	89.724	ug/mL	98
90)	DPH (as Azobenzene)	11.624	182	341255	90.445	ug/mL	92
92)	2,4,6-Tribromophenol	11.754	330	161694	91.147	ug/mL	98
94)	Sulfotepp	11.734	97	249301	89.468	ug/mL#	85
95)	Diallate	11.925	86	448669	88.760	ug/mL#	80
96)	Phorate	11.935	75	738621	90.573	ug/mL	98
97)	4-Bromophenylphenyl ether	12.046	248	389187	90.710	ug/mL	94
98)	Phenacetin	11.935	108	568285	92.518	ug/mL	98
99)	1,3,5-Trinitrobenzene	11.865	213	129916	97.353	ug/mL	92
100)	Hexachlorobenzene	12.160	284	373550	89.155	ug/mL	96
101)	Dimethoate	12.148	87	435198	94.933	ug/mL	93
102)	4-Aminobiphenyl	12.367	169	1241127	88.595	ug/mL	100
103)	Pentachlorophenol	12.391	266	212808	87.555	ug/mL	98
104)	Pronamide	12.425	173	342641	89.894	ug/mL	97
105)	Pentachloronitrobenzene	12.414	237	158541	90.427	ug/mL	94
106)	Phenanthrene	12.668	178	1694700	87.432	ug/mL	99
107)	Disulfoton	12.587	88	654074	89.861	ug/mL	96
108)	Anthracene	12.737	178	1806283	91.218	ug/mL	99
109)	Dinoseb	12.598	211	353962	99.020	ug/mL	99
110)	Carbazole	12.910	167	1397028	87.999	ug/mL	99
111)	Methyl Parathion	13.060	109	412031	96.359	ug/mL	91
112)	Di-n-butyl phthalate	13.303	149	1998820	93.412	ug/mL	98
113)	Parathion	13.545	109	251339	96.065	ug/mL	92
114)	4-Nitroquinoline-1-oxide	13.626	190	106911	100.757	ug/mL	99
115)	Methapyrilene	13.696	97	313772	90.162	ug/mL	98
116)	Isodrin	13.987	193	150993	88.819	ug/mL	91
117)	Fluoranthene	14.168	202	1226531	87.465	ug/mL	95
118)	Benzidine	13.987	184	9934	86.246	ug/mL	88
119)	Pyrene	14.460	202	1295368	88.551	ug/mL	93
121)	Terphenyl -D14	14.610	244	916396	88.498	ug/mL	99
122)	Aramite	14.550	185	25385	101.094	ug/mL	89
123)	Benzylbutyl phthalate	15.243	149	545248	92.088	ug/mL	98
125)	p-(dimethylamino)azobe...	14.791	225	247618	95.716	ug/mL#	100
126)	Chlorobenzilate	14.841	251	327630	92.978	ug/mL	89
127)	Famphur	15.931	218	34269	129.680	ug/mL	87
128)	3,3'-Dimethylbenzidine	15.263	212	430490	83.629	ug/mL	97
129)	Kepone	19.947	272	112	71.342	ug/mL#	100
130)	2-Acetylaminofluorene	15.655	181	363404	98.365	ug/mL	98
131)	3,3'-Dichlorobenzidine	16.151	252	308366	89.366	ug/mL	98
132)	Benzo(a)anthracene	16.240	228	976429	88.753	ug/mL	99
133)	Bis(2-ethylhexyl)phtha...	16.162	149	706818	95.104	ug/mL	97
134)	Chrysene	16.306	228	883915	88.822	ug/mL	98
135)	Di-n-octyl phthalate	17.485	149	1046047	97.374	ug/mL	100
136)	Hexachlorophene	19.218	196	79	5.234	ug/mL#	1
138)	7,12-Dimethylbenz(a)an...	18.464	256	380490	92.197	ug/mL	99
139)	Benzo(b)fluoranthene	18.481	252	796477	90.337	ug/mL	96
140)	Benzo(k)fluoranthene	18.531	252	662056	89.540	ug/mL	94
141)	Benzo(a)pyrene	19.116	252	654352	91.564	ug/mL	95
142)	3-Methylcholanthrene	19.727	268	328419	89.851	ug/mL	98
143)	Indeno(1,2,3-cd)pyrene	20.991	276	601355	91.606	ug/mL	84
144)	Dibenzo(a,h)anthracene	21.010	278	511866	90.282	ug/mL	89
145)	Benzo(g,h,i)perylene	21.458	276	446016	91.013	ug/mL	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2008.D
Acq On : 2 Jul 2013 12:00
Operator : jfi
Sample : aa24784-cal7
Misc : a3g0034
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 02 20:35:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

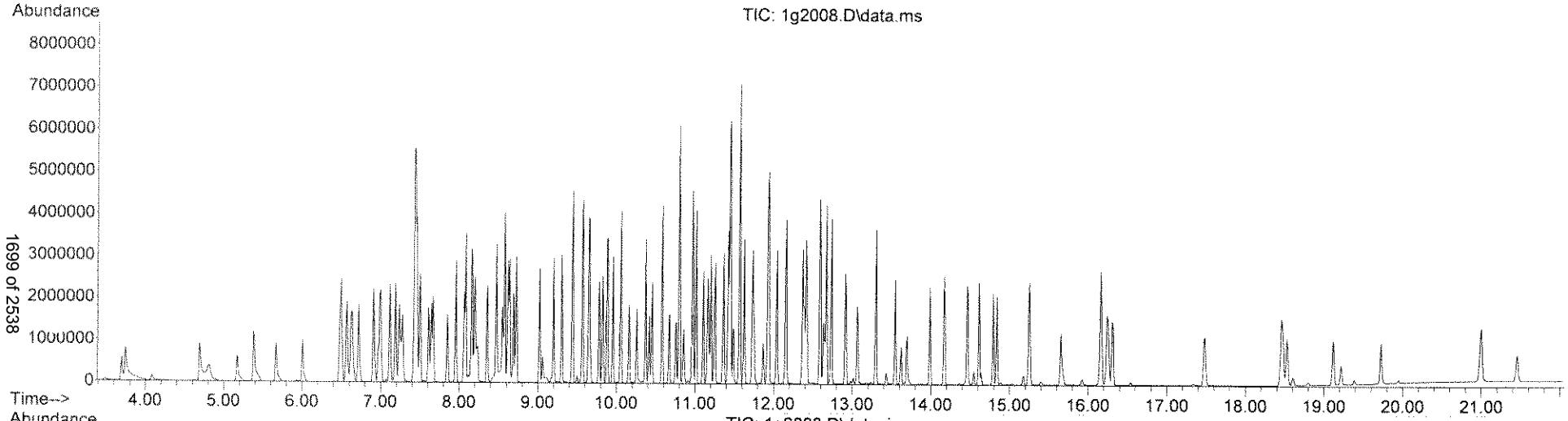
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

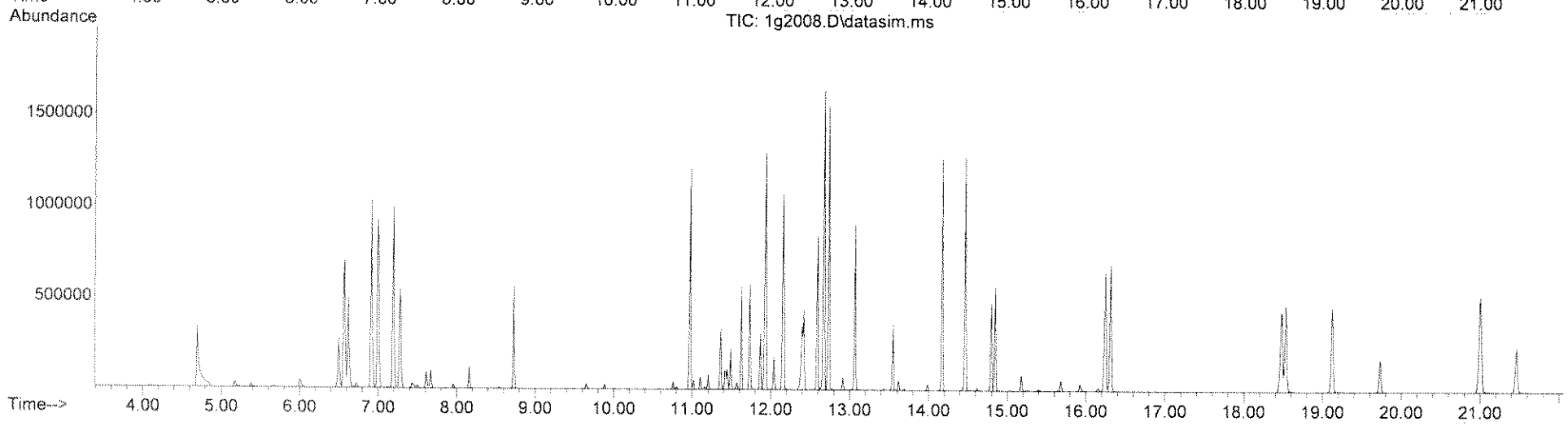
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2008.D
Acq On : 2 Jul 2013 12:00
Operator : jfi
Sample : aa24784-cal7
Misc : a3g0034
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 02 20:35:42 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2009.D
Acq On : 2 Jul 2013 12:28
Operator : jfi
Sample : aa24784-cal8
Misc : a3f0122
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 20:49:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	450047	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.555	136	1934743	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	1073287	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.644	188	1660698	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.273	240	1026132	40.00	ug/mL	0.01
137) PERYLENE-d12	19.226	264	524588	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.407	112	1861788	104.94	ug/mL	0.00
Spiked Amount 100.000			Recovery = 104.94%			
11) Phenol -D5 (acid surr)	6.506	99	2381493	109.07	ug/mL	0.02
Spiked Amount 100.000			Recovery = 109.07%			
33) Nitrobenzene -D5 (b/n ...	7.666	82	2023814	89.40	ug/mL	0.02
Spiked Amount 100.000			Recovery = 89.40%			
61) 2-Fluorobiphenyl (b/n ...	9.896	172	4360107	108.86	ug/mL	0.00
Spiked Amount 100.000			Recovery = 108.86%			
91) 2,4,6-Tribromophenol (...	11.764	330	535838	116.45	ug/mL	0.00
Spiked Amount 100.000			Recovery = 116.45%			
120) Terphenyl -D14 (b/n surr)	14.620	244	3011346	118.19	ug/mL	0.00
Spiked Amount 100.000			Recovery = 118.19%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.767	74	1196767	100.634	ug/mL	82
3) Pyridine	3.797	79	1888990	97.861	ug/mL	100
4) 2-Picoline	4.717	93	1910927	101.310	ug/mL	93
5) N-Nitrosomethylethylamine	4.847	88	872453	103.098	ug/mL#	59
6) Methyl methanesulfonate	5.217	80	1179503	103.672	ug/mL	93
8) 2-Fluorophenol	5.407	112	1861788	104.943	ug/mL	91
9) N-Nitrosodiethylamine	5.697	102	937093	110.085	ug/mL#	68
10) Ethyl methanesulfonate	6.036	79	1388996	104.581	ug/mL	94
12) Phenol -D5	6.506	99	2381493	109.072	ug/mL	84
13) Pentachloroethane	6.646	167	778335	108.873	ug/mL	100
14) aniline	6.586	93	3105113	108.046	ug/mL	91
15) Phenol	6.526	94	2235075	105.896	ug/mL	87
16) Bis(2-chloroethyl)ether	6.636	93	1727160	105.327	ug/mL	90
17) 2-Chlorophenol	6.736	128	1816558	106.526	ug/mL	96
18) 1,3-Dichlorobenzene	6.916	146	2149705	106.676	ug/mL	98
19) 1,4-Dichlorobenzene	7.006	146	2223637	108.710	ug/mL	98
20) Benzyl Alcohol	7.136	108	1234256	110.943	ug/mL	88
21) 1,2-Dichlorobenzene	7.196	146	2052517	108.258	ug/mL	99
22) 2-Methylphenol	7.256	107	1545429	107.465	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.286	45	2097968	102.522	ug/mL	93
24) Acetophenone	7.476	105	2890314	112.809	ug/mL	86
25) 3 & 4-Methylphenol	7.466	108	4076797	228.568	ug/mL	97
26) N-Nitrosodi-n-propylamine	7.486	70	1374687	104.716	ug/mL	92
27) N-Nitrosopyrrolidine	7.466	100	985169	114.853	ug/mL	92
28) N-Nitrosomorpholine	7.506	56	1204059	99.997	ug/mL	89
29) Hexachloroethane	7.616	117	835599	103.376	ug/mL	99
30) o-Toluidine	7.516	106	2990135	105.155	ug/mL	98
31) a,a-Dimethylphenethyla...	8.629	58	3868628	107.999	ug/mL	96
34) Nitrobenzene -D5	7.666	82	2023814	89.398	ug/mL	88

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2009.D
Acq On : 2 Jul 2013 12:28
Operator : jfi
Sample : aa24784-cal8
Misc : a3f0122
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 20:49:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Nitrobenzene	7.686	77	1983831	97.216	ug/mL	91
36)	N-Nitrosopiperidine	7.876	114	930529	104.069	ug/mL#	60
37)	Isophorone	7.976	82	3409577	101.906	ug/mL	99
38)	2-Nitrophenol	8.071	139	1013142	109.813	ug/mL	88
39)	2,4-Dimethylphenol	8.099	122	1740523	104.743	ug/mL	97
40)	Bis(2-chloroethoxy)met...	8.210	93	1986257	98.364	ug/mL	96
41)	o,o,o-Triethyl Phospho...	8.173	198	1146845	107.813	ug/mL	98
42)	Benzoic Acid	8.332	105	2568649	236.679	ug/mL#	69
43)	2,4-Dichlorophenol	8.378	162	1557172	111.862	ug/mL	100
44)	1,2,4-Trichlorobenzene	8.480	180	1877898	107.893	ug/mL	95
45)	Naphthalene	8.592	128	6142596	111.132	ug/mL	99
46)	4-Chloroaniline	8.639	127	2370526	110.081	ug/mL	98
47)	2,6-Dichlorophenol	8.657	162	1566338	110.021	ug/mL	99
48)	Hexachloropropene	8.695	213	1288623	107.227	ug/mL	99
49)	Hexachlorobutadiene	8.732	223	710744	105.102	ug/mL	98
50)	N-Nitrosodi-n-Butylamine	9.039	84	1431668	106.151	ug/mL	88
51)	p-Phenylenediamine	9.086	108	612175	78.482	ug/mL	87
52)	4-Chloro-3-methylphenol	9.216	107	1767288	111.694	ug/mL	87
53)	Safrole	9.318	162	1409832	111.791	ug/mL	89
54)	2-Methylnaphthalene	9.449	142	4153023	113.017	ug/mL	95
55)	1-Methylnaphthalene	9.579	142	4735940	114.112	ug/mL	95
56)	Hexachlorocyclopentadiene	9.654	237	1043709	117.131	ug/mL	99
58)	1,2,4,5-Tetrachloroben...	9.663	216	2000906	110.574	ug/mL	97
59)	2,4,6-Trichlorophenol	9.793	196	1168365	111.509	ug/mL	98
60)	2,4,5-Trichlorophenol	9.840	196	1264332	111.277	ug/mL	99
62)	2-Fluorobiphenyl	9.896	172	4360107	108.860	ug/mL	99
63)	Isosafrole	9.961	162	1389656	107.167	ug/mL	94
64)	2-Chloronaphthalene	10.063	162	3498793	106.737	ug/mL	95
65)	2-Nitroaniline	10.175	65	1117250	102.677	ug/mL	88
66)	1,4-Naphthoquinone	10.268	158	649972	77.187	ug/mL	93
67)	Dimethyl phthalate	10.389	163	3966190	106.203	ug/mL	100
68)	m-Dinitrobenzene	10.445	168	612208	110.175	ug/mL	90
69)	2,6-Dinitrotoluene	10.473	165	880716	106.485	ug/mL	83
70)	Acenaphthylene	10.594	152	6007050	110.236	ug/mL	100
71)	3-Nitroaniline	10.697	138	889906	110.429	ug/mL	95
72)	Acenaphthene	10.809	154	3950526	110.693	ug/mL	100
73)	2,4-Dinitrophenol	10.818	184	635651	99.208	ug/mL	94
74)	Pentachlorobenzene	10.986	250	1611099	114.636	ug/mL	100
75)	4-Nitrophenol	10.883	109	557107	106.237	ug/mL	95
76)	Dibenzofuran	11.023	168	4901525	109.114	ug/mL	92
77)	2,4-Dinitrotoluene	10.986	165	1204305	110.215	ug/mL	92
78)	2-Naphthylamine	11.116	143	2754985	106.158	ug/mL	95
79)	1-Naphthylamine	11.219	143	3289054	107.095	ug/mL	95
80)	2,3,4,6-Tetrachlorophenol	11.172	232	1033143	116.541	ug/mL	95
81)	Diethyl phthalate	11.266	149	3777653	102.112	ug/mL	99
82)	4-Chlorophenyl phenyl ...	11.433	204	2067359	112.931	ug/mL	92
83)	Fluorene	11.463	166	4263954	110.878	ug/mL	99
84)	Thionazin	11.383	107	689258	101.935	ug/mL	96
85)	5-Nitro-o-toluidine	11.463	152	1078857m	107.629	ug/mL	
86)	4-Nitroaniline	11.483	138	827194	102.342	ug/mL	91
87)	2-Methyl-4,6-dinitroph...	11.513	198	689539	114.076	ug/mL	96
88)	Diphenylamine/N-Nitros...	11.594	169	6993811	230.759	ug/mL	99

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2009.D
Acq On : 2 Jul 2013 12:28
Operator : jfi
Sample : aa24784-cal8
Misc : a3f0122
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 20:49:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	N-Nitrosodiphenylamine	11.594	169	6993811	115.380	ug/mL	99
90)	DPH (as Azobenzene)	11.634	182	1038554	106.116	ug/mL	94
92)	2,4,6-Tribromophenol	11.764	330	535838	116.447	ug/mL	98
94)	Sulfotepp	11.744	97	679292	99.079	ug/mL	97
95)	Diallate	11.935	86	1273396	102.385	ug/mL#	79
96)	Phorate	11.945	75	1980593	98.708	ug/mL	96
97)	4-Bromophenylphenyl ether	12.056	248	1193261	113.035	ug/mL	96
98)	Phenacetin	11.965	108	1622254	107.339	ug/mL	96
99)	1,3,5-Trinitrobenzene	11.905	213	389093	118.501	ug/mL#	84
100)	Hexachlorobenzene	12.171	284	1194009	115.821	ug/mL	98
101)	Dimethoate	12.171	87	918201	81.404	ug/mL	93
102)	4-Aminobiphenyl	12.390	169	4233985	122.835	ug/mL	95
103)	Pentachlorophenol	12.402	266	745350	124.633	ug/mL	99
104)	Pronamide	12.437	173	1003467	106.998	ug/mL	96
105)	Pentachloronitrobenzene	12.425	237	458942	106.389	ug/mL	93
106)	Phenanthrene	12.679	178	5267108	110.441	ug/mL	98
107)	Disulfoton	12.598	88	1859977	103.856	ug/mL	93
108)	Anthracene	12.748	178	5553327	113.979	ug/mL	98
109)	Dinoseb	12.610	211	1063199	120.882	ug/mL	96
110)	Carbazole	12.933	167	4527282	115.902	ug/mL	98
111)	Methyl Parathion	13.072	109	964245	91.650	ug/mL	92
112)	Di-n-butyl phthalate	13.302	149	5536873	105.165	ug/mL	96
113)	Parathion	13.556	109	708181	110.010	ug/mL	97
114)	4-Nitroquinoline-1-oxide	13.636	190	312074	119.533	ug/mL	88
115)	Methapyrilene	13.696	97	585935	68.429	ug/mL	98
116)	Isodrin	13.997	193	449486	107.459	ug/mL	88
117)	Fluoranthene	14.178	202	3920250	113.618	ug/mL	95
118)	Benzidine	13.997	184	28658	101.121	ug/mL	88
119)	Pyrene	14.480	202	4209552	116.954	ug/mL	95
121)	Terphenyl -D14	14.620	244	3011346	118.192	ug/mL	99
122)	Aramite	14.550	185	67059	108.539	ug/mL	91
123)	Benzylbutyl phthalate	15.253	149	1700373	116.717	ug/mL	93
125)	p-(dimethylamino)azobe...	14.801	225	762993	111.640	ug/mL#	100
126)	Chlorobenzilate	14.851	251	1067791	114.704	ug/mL	99
127)	Famphur	15.942	218	22728	32.556	ug/mL	89
128)	3,3'-Dimethylbenzidine	15.263	212	1160361	85.326	ug/mL	96
129)	Kepone	19.955	272	519	125.139	ug/mL#	100
130)	2-Acetylaminofluorene	15.677	181	1046695	107.243	ug/mL	99
131)	3,3'-Dichlorobenzidine	16.173	252	997967	109.476	ug/mL	98
132)	Benzo(a)anthracene	16.261	228	3040622	104.617	ug/mL	97
133)	Bis(2-ethylhexyl)phtha...	16.173	149	2300809	117.184	ug/mL	97
134)	Chrysene	16.328	228	2755127	104.796	ug/mL	97
135)	Di-n-octyl phthalate	17.496	149	3331421	117.387	ug/mL	100
136)	Hexachlorophene	19.235	196	324	8.125	ug/mL#	1
138)	7,12-Dimethylbenz(a)an...	18.480	256	1064240	121.657	ug/mL	98
139)	Benzo(b)fluoranthene	18.506	252	2116483	113.248	ug/mL	95
140)	Benzo(k)fluoranthene	18.557	252	1813966	115.738	ug/mL	96
141)	Benzo(a)pyrene	19.133	252	1664648	109.891	ug/mL	95
142)	3-Methylcholanthrene	19.743	268	809121	104.432	ug/mL	96
143)	Indeno(1,2,3-cd)pyrene	21.001	276	1243763	89.383	ug/mL	82
144)	Dibenzo(a,h)anthracene	21.019	278	1078529	89.743	ug/mL	89
145)	Benzo(g,h,i)perylene	21.467	276	861431	82.928	ug/mL	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2009.D
Acq On : 2 Jul 2013 12:28
Operator : jfi
Sample : aa24784-cal8
Misc : a3f0122
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 20:49:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

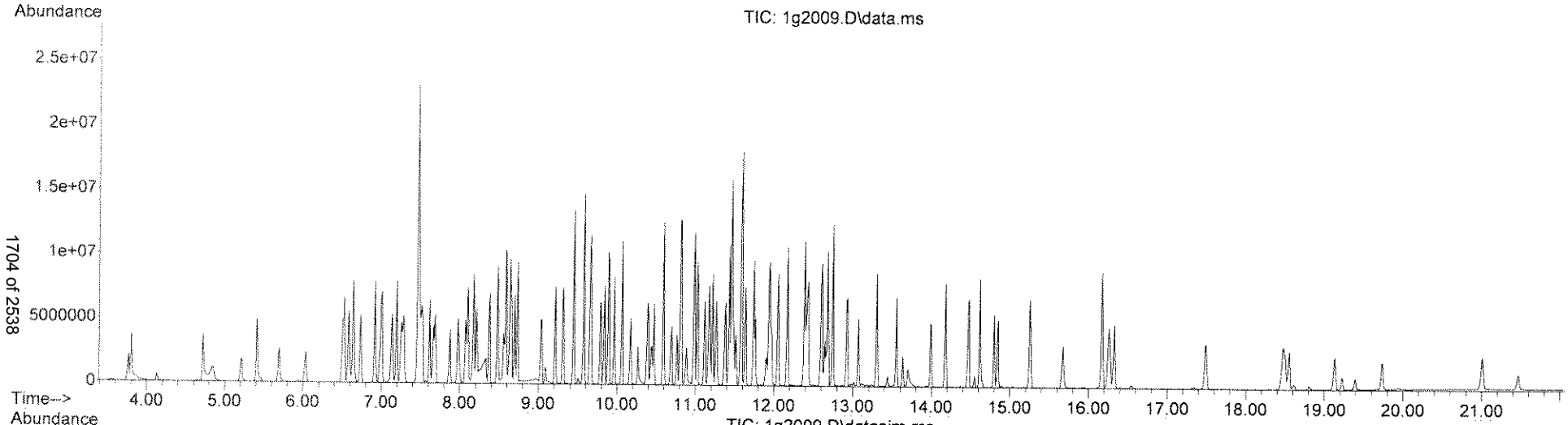
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

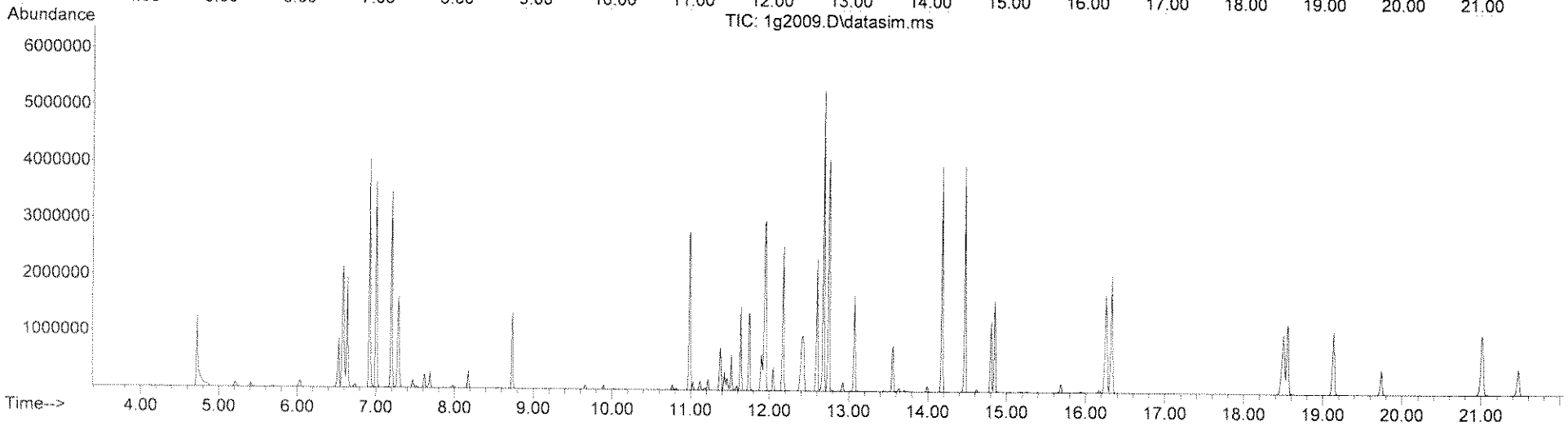
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2009.D
Acq On : 2 Jul 2013 12:28
Operator : jfi
Sample : aa24784-cal8
Misc : a3f0122
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 20:49:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration

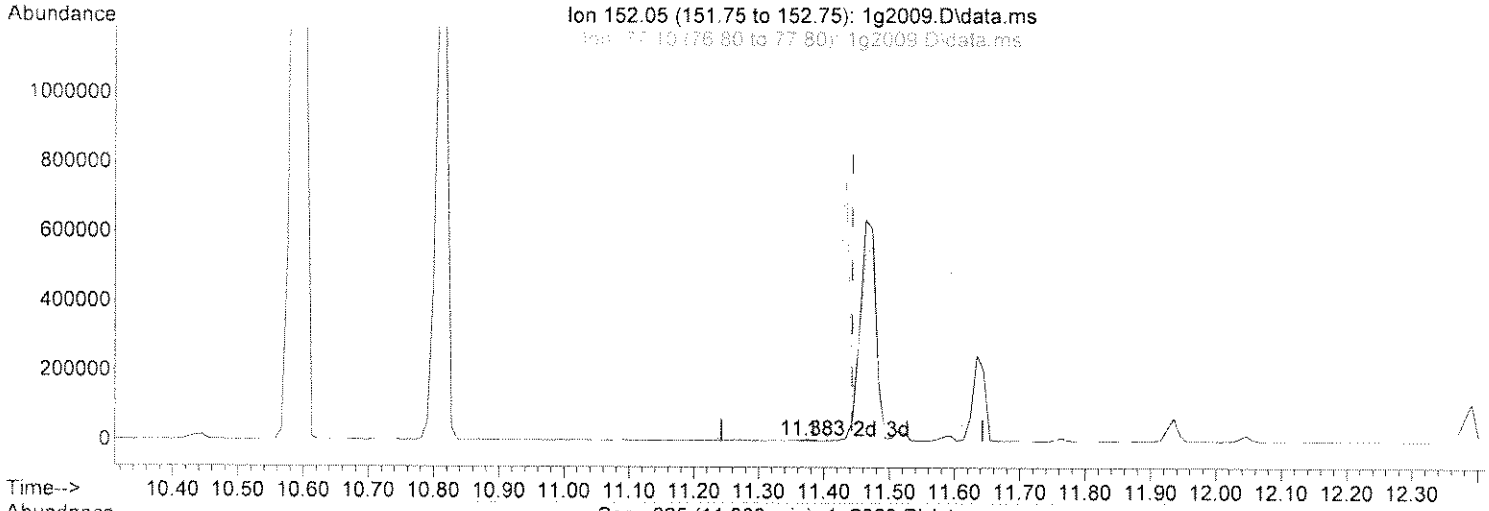


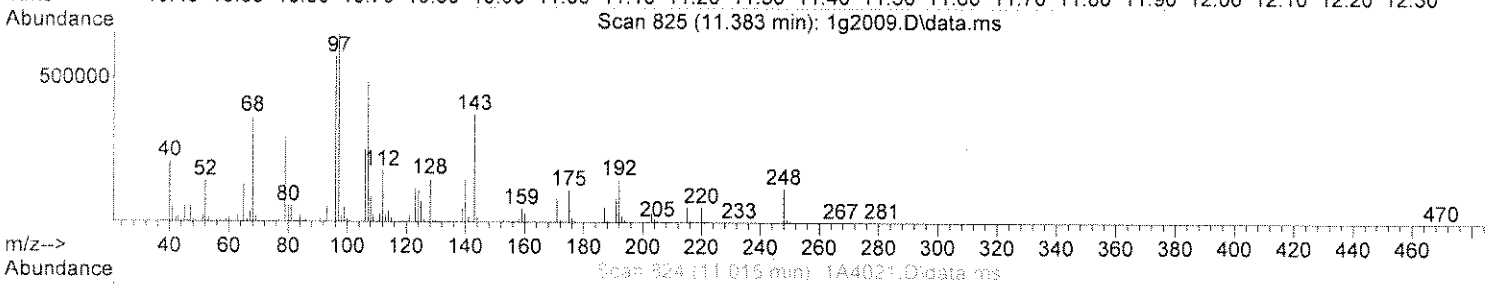


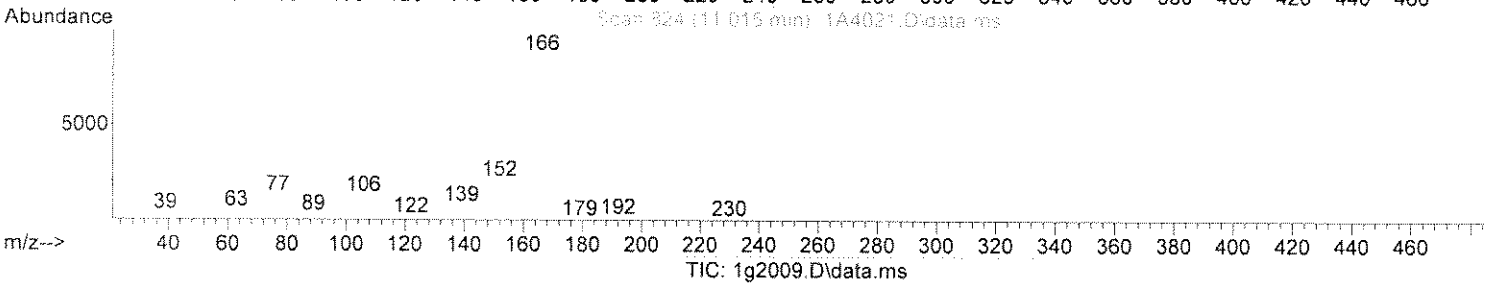
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2009.D
Acq On : 2 Jul 2013 12:28
Operator : jfi
Sample : aa24784-cal8
Misc : a3f0122
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 20:35:44 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration







(85) 5-Nitro-o-toluidine

11.383min (-0.060) 0.42 ug/mL

response 4240

Ion	Exp%	Act%
152.05	100	100
77.10	176.90	178.11
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] Other:
Review by/date: 7.3.13
Review by/date: 070313

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2009.D
Acq On : 2 Jul 2013 12:28
Operator : jfi
Sample : aa24784-cal8
Misc : a3f0122
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 02 20:35:44 2013
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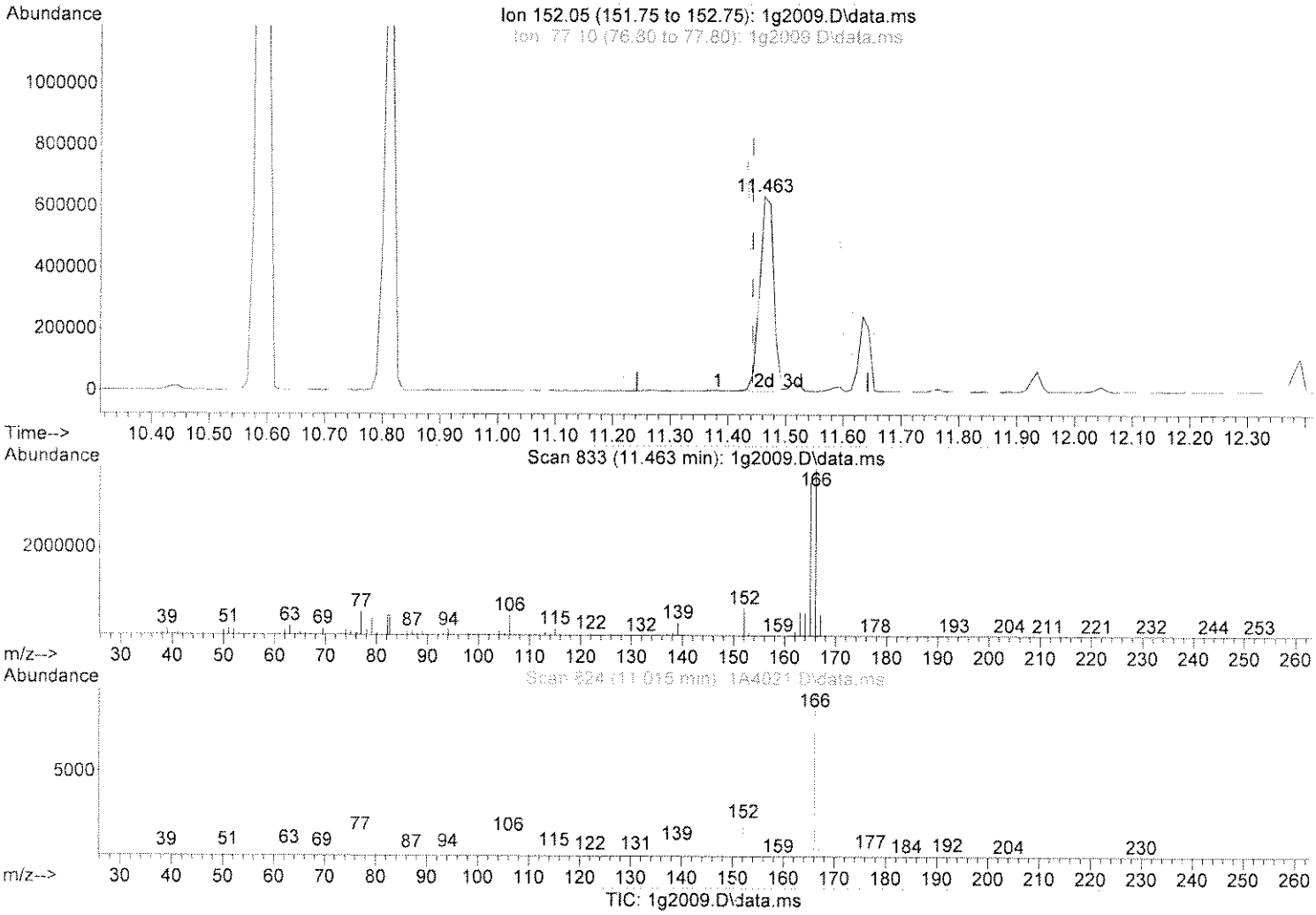
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 20:35:08 2013
QLast Update : Tue Jul 02 20:35:08 2013
Response via : Initial Calibration



(85) 5-Nitro-o-toluidine

11.463min (+0.020) 107.63 ug/mL m

response 1078857

Ion	Exp%	Act%
152.05	100	100
77.10	176.90	0.70#
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak was identified/peak not found
[ ] Name or RT shift
[ ] Baseline drift for split peaks
[ ] Other:
Review by/date: JJ 7.3.13
Review by/date: R 07/03/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2010.D
Acq On : 2 Jul 2013 12:57
Operator : jfi
Sample : aa24784-scv1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 21:02:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 21:00:35 2013
QLast Update : Tue Jul 02 21:00:35 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.976	152	459693	40.00	ug/mL	0.00
32) NAPHTHALENE-d8	8.555	136	1947067	40.00	ug/mL	0.00
57) ACENAPHTHENE-d10	10.762	164	1033552	40.00	ug/mL	0.00
93) PHENANTHRENE-d10	12.645	188	1613310	40.00	ug/mL	0.00
124) CHRYSENE-d12	16.262	240	940267	40.00	ug/mL	0.00
137) PERYLENE-d12	19.226	264	608405	40.00	ug/mL	0.00
System Monitoring Compounds						
7) 2-Fluorophenol (acid s...	5.397	112	875992	48.34	ug/mL	0.00
Spiked Amount 100.000			Recovery = 48.34%			
11) Phenol -D5 (acid surr)	6.486	99	1116858	50.08	ug/mL	0.00
Spiked Amount 100.000			Recovery = 50.08%			
33) Nitrobenzene -D5 (b/n ...	7.656	82	1115463	48.96	ug/mL	0.01
Spiked Amount 100.000			Recovery = 48.96%			
61) 2-Fluorobiphenyl (b/n ...	9.886	172	1925148	49.91	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.91%			
91) 2,4,6-Tribromophenol (...	11.754	330	218032	49.20	ug/mL	0.00
Spiked Amount 100.000			Recovery = 49.20%			
120) Terphenyl -D14 (b/n surr)	14.610	244	1142478	46.16	ug/mL	0.00
Spiked Amount 100.000			Recovery = 46.16%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.747	74	596828	49.045	ug/mL	82
3) Pyridine	3.787	79	955502	48.462	ug/mL	99
4) 2-Picoline	4.717	93	926327	48.080	ug/mL	95
5) N-Nitrosomethylethylamine	4.837	88	425084	49.178	ug/mL#	58
6) Methyl methanesulfonate	5.197	80	562929	48.440	ug/mL	94
8) 2-Fluorophenol	5.397	112	875992	48.341	ug/mL	93
9) N-Nitrosodiethylamine	5.687	102	448450	51.576	ug/mL#	68
10) Ethyl methanesulfonate	6.017	79	673039	49.612	ug/mL	94
12) Phenol -D5	6.486	99	1116858	50.079	ug/mL	86
13) Pentachloroethane	6.636	167	350492	47.998	ug/mL	99
14) aniline	6.576	93	1470354	50.089	ug/mL	91
15) Phenol	6.506	94	1074667	49.848	ug/mL	89
16) Bis(2-chloroethyl)ether	6.626	93	821226	49.030	ug/mL	91
17) 2-Chlorophenol	6.726	128	870332	49.967	ug/mL	96
18) 1,3-Dichlorobenzene	6.916	146	992644	48.225	ug/mL	99
19) 1,4-Dichlorobenzene	6.996	146	1027376	49.173	ug/mL	99
20) Benzyl Alcohol	7.126	108	590257	51.943	ug/mL	89
21) 1,2-Dichlorobenzene	7.186	146	937702	48.420	ug/mL	99
22) 2-Methylphenol	7.236	107	730010	49.698	ug/mL	94
23) Bis(2-chloroisopropyl)...	7.276	45	1022741	48.930	ug/mL	95
24) Acetophenone	7.456	105	1306417	49.920	ug/mL	93
25) 3 & 4-Methylphenol	7.446	108	1928598	105.859	ug/mL	98
26) N-Nitrosodi-n-propylamine	7.466	70	684820	51.071	ug/mL	96
27) N-Nitrosopyrrolidine	7.436	100	470536	53.704	ug/mL	93
28) N-Nitrosomorpholine	7.476	56	603443	49.064	ug/mL	93
29) Hexachloroethane	7.616	117	400192	48.471	ug/mL	99
30) o-Toluidine	7.506	106	1405558	48.392	ug/mL	99
31) a,a-Dimethylphenethyla...	8.555	58	1042177	50.348	ug/mL	89
34) Nitrobenzene -D5	7.656	82	1115463	48.961	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2010.D
Acq On : 2 Jul 2013 12:57
Operator : jfi
Sample : aa24784-scv1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 21:02:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 21:00:35 2013
QLast Update : Tue Jul 02 21:00:35 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Nitrobenzene	7.676	77	981946	47.815	ug/mL	94
36) N-Nitrosopiperidine	7.856	114	434729	48.312	ug/mL#	64
37) Isophorone	7.966	82	1630408	48.418	ug/mL	99
38) 2-Nitrophenol	8.062	139	467158	50.314	ug/mL	89
39) 2,4-Dimethylphenol	8.090	122	843843	50.460	ug/mL	95
40) Bis(2-chloroethoxy)met...	8.201	93	987260	48.582	ug/mL	98
41) o,o,o-Triethyl Phospho...	8.164	198	518157	48.403	ug/mL	95
42) Benzoic Acid	8.266	105	1218727	102.077	ug/mL#	68
43) 2,4-Dichlorophenol	8.360	162	695498	49.646	ug/mL	99
44) 1,2,4-Trichlorobenzene	8.471	180	851334	48.603	ug/mL	96
45) Naphthalene	8.583	128	2733089	49.131	ug/mL	99
46) 4-Chloroaniline	8.620	127	1079320	49.804	ug/mL	98
47) 2,6-Dichlorophenol	8.639	162	699093	48.794	ug/mL	98
48) Hexachloropropene	8.695	213	609974	50.435	ug/mL	99
49) Hexachlorobutadiene	8.723	223	320968	47.163	ug/mL	98
50) N-Nitrosodi-n-Butylamine	9.030	84	681495	50.210	ug/mL	89
51) p-Phenylenediamine	9.067	108	364847	46.478	ug/mL	91
52) 4-Chloro-3-methylphenol	9.207	107	787726	49.463	ug/mL	91
53) Safrole	9.309	162	626963	49.400	ug/mL	94
54) 2-Methylnaphthalene	9.440	142	1822292	49.277	ug/mL	97
55) 1-Methylnaphthalene	9.570	142	2075111	49.683	ug/mL	97
56) Hexachlorocyclopentadiene	9.644	237	454349	50.667	ug/mL	100
58) 1,2,4,5-Tetrachloroben...	9.654	216	851540	48.867	ug/mL	99
59) 2,4,6-Trichlorophenol	9.784	196	510638	50.609	ug/mL	99
60) 2,4,5-Trichlorophenol	9.831	196	538921	49.242	ug/mL	98
62) 2-Fluorobiphenyl	9.886	172	1925148	49.914	ug/mL	100
63) Isosafrole	9.952	162	613188	49.105	ug/mL	97
64) 2-Chloronaphthalene	10.054	162	1553955	49.229	ug/mL	97
65) 2-Nitroaniline	10.166	65	530440	50.623	ug/mL	91
66) 1,4-Naphthoquinone	10.259	158	370689	45.713	ug/mL	94
67) Dimethyl phthalate	10.380	163	1776580	49.401	ug/mL	100
68) m-Dinitrobenzene	10.426	168	269128	50.295	ug/mL#	80
69) 2,6-Dinitrotoluene	10.454	165	381603	47.912	ug/mL	89
70) Acenaphthylene	10.585	152	2583832	49.239	ug/mL	99
71) 3-Nitroaniline	10.678	138	374204	48.220	ug/mL	98
72) Acenaphthene	10.809	154	1680243	48.890	ug/mL	98
73) 2,4-Dinitrophenol	10.809	184	269095	49.653	ug/mL	93
74) Pentachlorobenzene	10.977	250	671167	49.592	ug/mL	100
75) 4-Nitrophenol	10.865	109	240363	47.583	ug/mL	95
76) Dibenzofuran	11.014	168	2100864	48.566	ug/mL	95
77) 2,4-Dinitrotoluene	10.977	165	519413	49.363	ug/mL	95
78) 2-Naphthylamine	11.107	143	1219241	48.787	ug/mL	97
79) 1-Naphthylamine	11.210	143	1443322	48.856	ug/mL	97
80) 2,3,4,6-Tetrachlorophenol	11.163	232	413616	48.416	ug/mL	98
81) Diethyl phthalate	11.256	149	1657499	46.526	ug/mL	98
82) 4-Chlorophenyl phenyl ...	11.423	204	843045	47.822	ug/mL	97
83) Fluorene	11.453	166	1825189	49.286	ug/mL	98
84) Thionazin	11.363	107	309066	47.475	ug/mL	96
85) 5-Nitro-o-toluidine	11.453	152	479037	49.639	ug/mL	96
86) 4-Nitroaniline	11.463	138	379534	48.762	ug/mL	89
87) 2-Methyl-4,6-dinitroph...	11.493	198	288598	47.740	ug/mL	99
88) Diphenylamine/N-Nitros...	11.574	169	2750080	94.227	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2010.D
Acq On : 2 Jul 2013 12:57
Operator : jfi
Sample : aa24784-scv1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 21:02:08 2013
Quant Method : C:\msdchem\1\METHODS\070213.M
Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 21:00:35 2013
QLast Update : Tue Jul 02 21:00:35 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) N-Nitrosodiphenylamine	11.574	169	2750080	47.113 ug/mL	98
90) DPH (as Azobenzene)	11.634	182	459563	48.762 ug/mL	93
92) 2,4,6-Tribromophenol	11.754	330	218032	49.204 ug/mL	96
94) Sulfotepp	11.734	97	322733	48.455 ug/mL	87
95) Diallate	11.925	86	594815	49.230 ug/mL#	78
96) Phorate	11.935	75	958999	49.198 ug/mL	98
97) 4-Bromophenylphenyl ether	12.046	248	510837	49.812 ug/mL	96
98) Phenacetin	11.945	108	721295	49.015 ug/mL	96
99) 1,3,5-Trinitrobenzene	11.875	213	156281	48.918 ug/mL	92
100) Hexachlorobenzene	12.160	284	498605	49.786 ug/mL	97
101) Dimethoate	12.160	87	540546	49.327 ug/mL	92
102) 4-Aminobiphenyl	12.379	169	1644450	49.110 ug/mL	99
103) Pentachlorophenol	12.391	266	288929	48.323 ug/mL	99
104) Pronamide	12.425	173	446946	49.057 ug/mL	96
105) Pentachloronitrobenzene	12.414	237	201635	48.115 ug/mL	93
106) Phenanthrene	12.668	178	2190488	47.282 ug/mL	99
107) Disulfoton	12.587	88	819385	47.096 ug/mL	95
108) Anthracene	12.737	178	2395060	50.601 ug/mL	98
109) Dinoseb	12.598	211	449453	49.756 ug/mL	99
110) Carbazole	12.922	167	1792547	47.239 ug/mL	98
111) Methyl Parathion	13.060	109	491738	48.112 ug/mL	91
112) Di-n-butyl phthalate	13.303	149	2506819	49.012 ug/mL	97
113) Parathion	13.545	109	302511	48.373 ug/mL	95
114) 4-Nitroquinoline-1-oxide	13.626	190	125020	46.542 ug/mL	98
115) Methapyrilene	13.696	97	356885	42.903 ug/mL	99
116) Isodrin	13.987	193	187335	46.100 ug/mL	89
117) Fluoranthene	14.168	202	1541705	45.995 ug/mL	95
118) Benzidine	13.987	184	13139	47.723 ug/mL	92
119) Pyrene	14.470	202	1622623	46.406 ug/mL	94
121) Terphenyl -D14	14.610	244	1142478	46.158 ug/mL	99
122) Aramite	14.550	185	30817	51.344 ug/mL	92
123) Benzylbutyl phthalate	15.243	149	705024	49.816 ug/mL	98
125) p-(dimethylamino)azobe...	14.791	225	310882	49.641 ug/mL#	100
126) Chlorobenzilate	14.841	251	414808	48.628 ug/mL	92
127) Famphur	15.931	218	35997	No Calib	
128) 3,3'-Dimethylbenzidine	15.253	212	537966	43.170 ug/mL	97
129) Kepone	19.947	272	262	No Calib #	
130) 2-Acetylaminofluorene	15.655	181	511018	53.891 ug/mL	99
131) 3,3'-Dichlorobenzidine	16.162	252	428427	51.279 ug/mL	98
132) Benzo(a)anthracene	16.251	228	1301376	48.864 ug/mL	98
133) Bis(2-ethylhexyl)phtha...	16.162	149	922375	51.267 ug/mL	97
134) Chrysene	16.317	228	1168511	48.499 ug/mL	98
135) Di-n-octyl phthalate	17.485	149	1448620	52.469 ug/mL	99
136) Hexachlorophene	19.226	196	489	No Calib #	
138) 7,12-Dimethylbenz(a)an...	18.464	256	531072	52.345 ug/mL	97
139) Benzo(b)fluoranthene	18.481	252	1076644	49.672 ug/mL	95
140) Benzo(k)fluoranthene	18.540	252	932444	51.304 ug/mL	95
141) Benzo(a)pyrene	19.125	252	891953	50.770 ug/mL	95
142) 3-Methylcholanthrene	19.726	268	446621	49.703 ug/mL	98
143) Indeno(1,2,3-cd)pyrene	21.001	276	794515	49.232 ug/mL	83
144) Dibenzo(a,h)anthracene	21.010	278	689277	49.452 ug/mL	88
145) Benzo(g,h,i)perylene	21.467	276	580584	48.192 ug/mL	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
Data File : 1g2010.D
Acq On : 2 Jul 2013 12:57
Operator : jfi
Sample : aa24784-scv1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 02 21:02:08 2013
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Quant Title : SOP SVMS/ 3.0; ELEMENT CAL 1304084; INSTMon Feb SuTue Jul 02 21:00:35 2013
QLast Update : Tue Jul 02 21:00:35 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070213\
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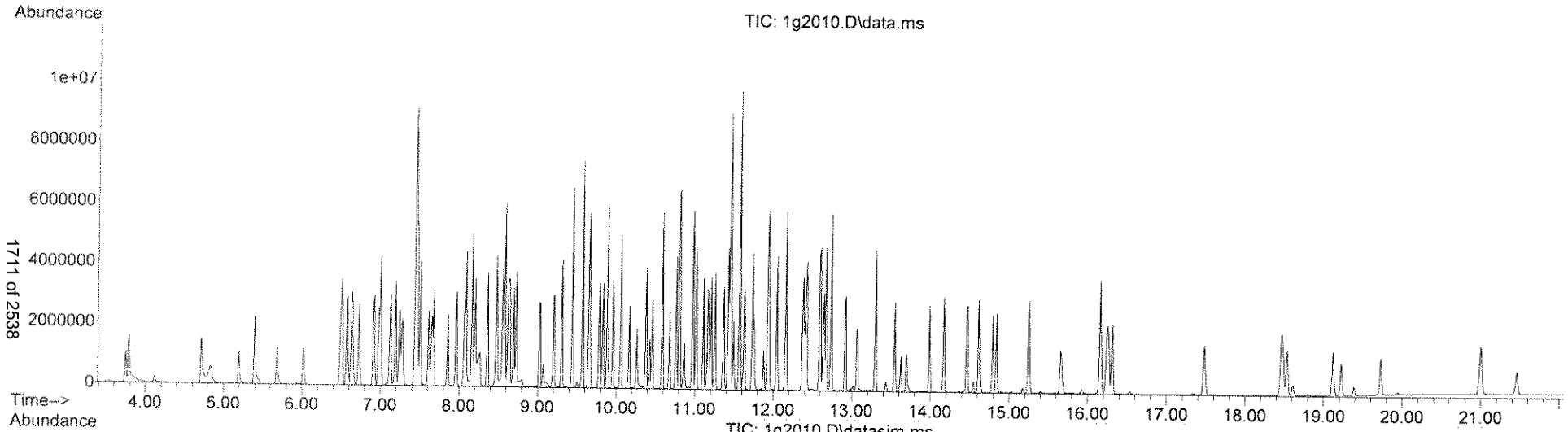
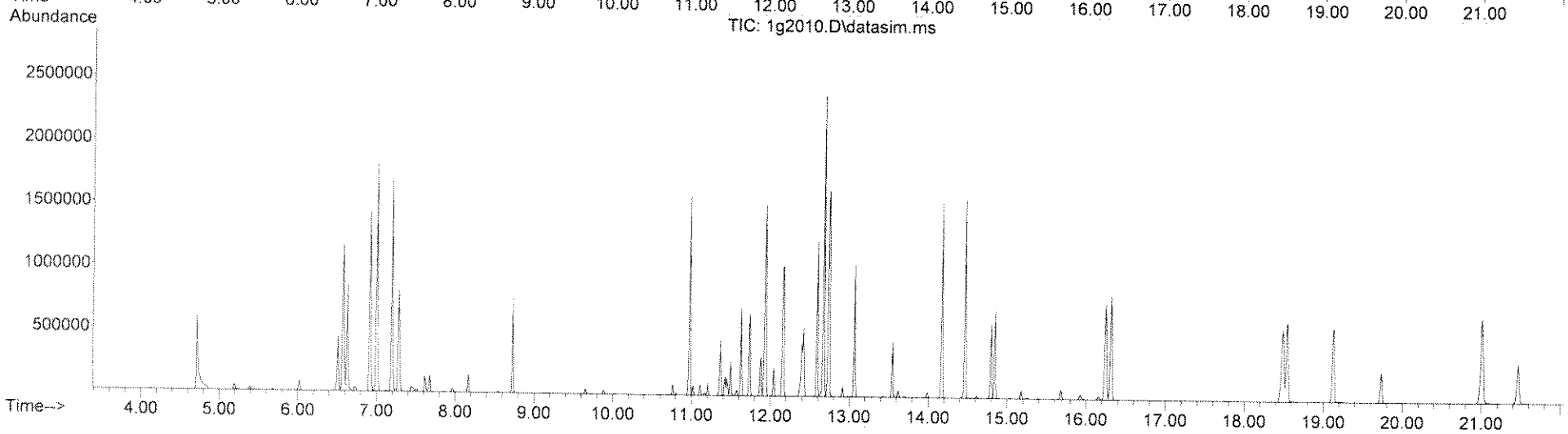




ENCO Orlando

SDG: A303499-CTO0020

CLASS: 09_SVOA_SIM

METHOD: EPA 8270D

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Client Sample Id:	Lab Sample Id:
TR-2ND-SB07-0.5-01-0613	A303499-06
TR-2ND-SB07-04-06-0613	A303499-07
TR-2ND-SB07-GW-0613	A303499-08
TR-2ND-SB06-0.5-01-0613	A303499-09
TR-2ND-SB06-05-07-0613	A303499-10
TR-2ND-SB06D-0.5-01-0613	A303499-11
TR-2ND-SB06D-05-07-0613	A303499-12
TR-2ND-SB06-GW-0613	A303499-13
TR-2ND-SB04-0.5-01-0613	A303499-14
TR-2ND-SB04-04-06-0613	A303499-15
TR-2ND-SB04-GW-0613	A303499-16
TR-2ND-SB05-0.5-01-0613	A303499-17
TR-2ND-SB05-03-05-0613	A303499-18
TR-2ND-SB03-0.5-01-0613	A303499-19
TR-2ND-SB03-04-06-0613	A303499-20
TR-2ND-SB02-0.5-1-0613	A303499-21
TR-2ND-SB02-06-08-0613	A303499-22

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	2g3018.D
Sampled:	06/19/13 10:20	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 14:26
Solids:	84.46	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<30	U	21	30	41
91-20-3	Naphthalene	1	<30	U	21	30	41
208-96-8	Acenaphthylene	1	<30	U	21	30	41
83-32-9	Acenaphthene	1	<30	U	18	30	41
86-73-7	Fluorene	1	<30	U	20	30	41
85-01-8	Phenanthrene	1	<30	U	18	30	41
120-12-7	Anthracene	1	<30	U	17	30	41
206-44-0	Fluoranthene	1	<30	U	20	30	41
129-00-0	Pyrene	1	<30	U	19	30	41
56-55-3	Benzo(a)anthracene	1	<30	U	17	30	41
218-01-9	Chrysene	1	<30	U	14	30	41
205-99-2	Benzo(b)fluoranthene	1	<30	U	20	30	41
207-08-9	Benzo(k)fluoranthene	1	<30	U	22	30	41
50-32-8	Benzo(a)pyrene	1	<30	U	18	30	41
193-39-5	Indeno(1,2,3-cd)pyrene	1	<30	U	18	30	41
53-70-3	Dibenzo(a,h)anthracene	1	<30	U	19	30	41
191-24-2	Benzo(g,h,i)perylene	1	<30	U	18	30	41

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2370	1900	81	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	296751	5.61	297603	5.662	
Acenaphthene-d10	177226	7.356	205693	7.447	
Phenanthrene-d10	284982	8.849	323160	8.947	
Chrysene-d12	275098	11.979	341984	12.104	
Perylene-d12	251057	14.277	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	2g3019.D
Sampled:	06/19/13 10:40	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 14:48
Solids:	80.68	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<31	U	22	31	43
91-20-3	Naphthalene	1	<31	U	22	31	43
208-96-8	Acenaphthylene	1	<31	U	22	31	43
83-32-9	Acenaphthene	1	<31	U	19	31	43
86-73-7	Fluorene	1	<31	U	21	31	43
85-01-8	Phenanthrene	1	<31	U	19	31	43
120-12-7	Anthracene	1	<31	U	17	31	43
206-44-0	Fluoranthene	1	<31	U	21	31	43
129-00-0	Pyrene	1	<31	U	20	31	43
56-55-3	Benzo(a)anthracene	1	<31	U	17	31	43
218-01-9	Chrysene	1	<31	U	15	31	43
205-99-2	Benzo(b)fluoranthene	1	<31	U	21	31	43
207-08-9	Benzo(k)fluoranthene	1	<31	U	24	31	43
50-32-8	Benzo(a)pyrene	1	<31	U	19	31	43
193-39-5	Indeno(1,2,3-cd)pyrene	1	<31	U	19	31	43
53-70-3	Dibenzo(a,h)anthracene	1	<31	U	20	31	43
191-24-2	Benzo(g,h,i)perylene	1	<31	U	19	31	43

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2480	2000	79	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	305955	5.609	297603	5.662	
Acenaphthene-d10	185185	7.363	205693	7.447	
Phenanthrene-d10	295156	8.855	323160	8.947	
Chrysene-d12	286554	11.978	341984	12.104	
Perylene-d12	259446	14.276	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB07-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-08	File ID:	2g5011.D
Sampled:	06/19/13 10:45	Prepared:	06/21/13 11:20	Analyzed:	07/05/13 14:07
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 20 mL

Batch: 3F21019 Sequence: AA24824 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<0.080	U	0.042	0.080	0.10
91-20-3	Naphthalene	1	<0.080	U	0.045	0.080	0.10
208-96-8	Acenaphthylene	1	<0.080	U	0.046	0.080	0.10
83-32-9	Acenaphthene	1	<0.080	U	0.045	0.080	0.10
86-73-7	Fluorene	1	<0.080	U	0.047	0.080	0.10
85-01-8	Phenanthrene	1	<0.080	U	0.063	0.080	0.10
120-12-7	Anthracene	1	<0.080	U	0.059	0.080	0.10
206-44-0	Fluoranthene	1	<0.080	U	0.075	0.080	0.10
129-00-0	Pyrene	1	<0.080	U	0.075	0.080	0.10
56-55-3	Benzo(a)anthracene	1	<0.080	U	0.062	0.080	0.10
218-01-9	Chrysene	1	<0.080	U	0.062	0.080	0.10
205-99-2	Benzo(b)fluoranthene	1	<0.080	U	0.072	0.080	0.10
207-08-9	Benzo(k)fluoranthene	1	<0.080	U	0.078	0.080	0.10
50-32-8	Benzo(a)pyrene	1	<0.080	UQ	0.077	0.080	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	<0.080	U	0.070	0.080	0.10
53-70-3	Dibenzo(a,h)anthracene	1	<0.080	U	0.069	0.080	0.10
191-24-2	Benzo(g,h,i)perylene	1	<0.080	U	0.072	0.080	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	4.00	3.3	82	70 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	312164	5.614	297603	5.662	
Acenaphthene-d10	180260	7.363	205693	7.447	
Phenanthrene-d10	280857	8.855	323160	8.947	
Chrysene-d12	256727	11.983	341984	12.104	
Perylene-d12	230884	14.283	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	2g3020.D
Sampled:	06/19/13 11:20	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 15:10
Solids:	84.06	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<30	U	21	30	42
91-20-3	Naphthalene	1	<30	U	21	30	42
208-96-8	Acenaphthylene	1	<30	U	21	30	42
83-32-9	Acenaphthene	1	<30	U	18	30	42
86-73-7	Fluorene	1	<30	U	20	30	42
85-01-8	Phenanthrene	1	<30	U	18	30	42
120-12-7	Anthracene	1	<30	U	17	30	42
206-44-0	Fluoranthene	1	<30	U	20	30	42
129-00-0	Pyrene	1	<30	U	19	30	42
56-55-3	Benzo(a)anthracene	1	<30	U	17	30	42
218-01-9	Chrysene	1	<30	U	14	30	42
205-99-2	Benzo(b)fluoranthene	1	<30	U	20	30	42
207-08-9	Benzo(k)fluoranthene	1	<30	U	23	30	42
50-32-8	Benzo(a)pyrene	1	<30	U	18	30	42
193-39-5	Indeno(1,2,3-cd)pyrene	1	<30	U	18	30	42
53-70-3	Dibenzo(a,h)anthracene	1	<30	U	19	30	42
191-24-2	Benzo(g,h,i)perylene	1	<30	U	18	30	42

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2380	1900	81	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	291252	5.615	297603	5.662	
Acenaphthene-d10	173385	7.356	205693	7.447	
Phenanthrene-d10	277577	8.849	323160	8.947	
Chrysene-d12	267995	11.979	341984	12.104	
Perylene-d12	243172	14.277	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	2g3021.D
Sampled:	06/19/13 11:30	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 15:31
Solids:	79.06	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<32	U	23	32	44
91-20-3	Naphthalene	1	<32	U	23	32	44
208-96-8	Acenaphthylene	1	<32	U	23	32	44
83-32-9	Acenaphthene	1	<32	U	19	32	44
86-73-7	Fluorene	1	<32	U	22	32	44
85-01-8	Phenanthrene	1	<32	U	19	32	44
120-12-7	Anthracene	1	<32	U	18	32	44
206-44-0	Fluoranthene	1	<32	U	22	32	44
129-00-0	Pyrene	1	<32	U	20	32	44
56-55-3	Benzo(a)anthracene	1	<32	U	18	32	44
218-01-9	Chrysene	1	<32	U	15	32	44
205-99-2	Benzo(b)fluoranthene	1	<32	U	22	32	44
207-08-9	Benzo(k)fluoranthene	1	<32	U	24	32	44
50-32-8	Benzo(a)pyrene	1	<32	U	19	32	44
193-39-5	Indeno(1,2,3-cd)pyrene	1	<32	U	19	32	44
53-70-3	Dibenzo(a,h)anthracene	1	<32	U	20	32	44
191-24-2	Benzo(g,h,i)perylene	1	<32	U	19	32	44

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2530	1900	74	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	297919	5.614	297603	5.662	
Acenaphthene-d10	178170	7.356	205693	7.447	
Phenanthrene-d10	283300	8.849	323160	8.947	
Chrysene-d12	268984	11.979	341984	12.104	
Perylene-d12	245007	14.276	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06D-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	2g3022.D
Sampled:	06/19/13 11:25	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 15:53
Solids:	83.39	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<30	U	22	30	42
91-20-3	Naphthalene	1	<30	U	22	30	42
208-96-8	Acenaphthylene	1	<30	U	22	30	42
83-32-9	Acenaphthene	1	<30	U	18	30	42
86-73-7	Fluorene	1	<30	U	20	30	42
85-01-8	Phenanthrene	1	<30	U	18	30	42
120-12-7	Anthracene	1	<30	U	17	30	42
206-44-0	Fluoranthene	1	<30	U	20	30	42
129-00-0	Pyrene	1	<30	U	19	30	42
56-55-3	Benzo(a)anthracene	1	<30	U	17	30	42
218-01-9	Chrysene	1	<30	U	14	30	42
205-99-2	Benzo(b)fluoranthene	1	<30	U	20	30	42
207-08-9	Benzo(k)fluoranthene	1	<30	U	23	30	42
50-32-8	Benzo(a)pyrene	1	<30	U	18	30	42
193-39-5	Indeno(1,2,3-cd)pyrene	1	<30	U	18	30	42
53-70-3	Dibenzo(a,h)anthracene	1	<30	U	19	30	42
191-24-2	Benzo(g,h,i)perylene	1	<30	U	18	30	42

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2400	2100	86	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	308024	5.608	297603	5.662	
Acenaphthene-d10	186707	7.357	205693	7.447	
Phenanthrene-d10	298119	8.85	323160	8.947	
Chrysene-d12	286858	11.979	341984	12.104	
Perylene-d12	259158	14.277	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	2g3023.D
Sampled:	06/19/13 11:35	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 16:15
Solids:	78.23	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<32	U	23	32	45
91-20-3	Naphthalene	1	<32	U	23	32	45
208-96-8	Acenaphthylene	1	<32	U	23	32	45
83-32-9	Acenaphthene	1	<32	U	19	32	45
86-73-7	Fluorene	1	<32	U	22	32	45
85-01-8	Phenanthrene	1	<32	U	19	32	45
120-12-7	Anthracene	1	<32	U	18	32	45
206-44-0	Fluoranthene	1	<32	U	22	32	45
129-00-0	Pyrene	1	<32	U	20	32	45
56-55-3	Benzo(a)anthracene	1	<32	U	18	32	45
218-01-9	Chrysene	1	<32	U	15	32	45
205-99-2	Benzo(b)fluoranthene	1	<32	U	22	32	45
207-08-9	Benzo(k)fluoranthene	1	<32	U	24	32	45
50-32-8	Benzo(a)pyrene	1	<32	U	19	32	45
193-39-5	Indeno(1,2,3-cd)pyrene	1	<32	U	19	32	45
53-70-3	Dibenzo(a,h)anthracene	1	<32	U	20	32	45
191-24-2	Benzo(g,h,i)perylene	1	<32	U	19	32	45

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2560	2100	82	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	310461	5.614	297603	5.662	
Acenaphthene-d10	185481	7.363	205693	7.447	
Phenanthrene-d10	295889	8.855	323160	8.947	
Chrysene-d12	282031	11.978	341984	12.104	
Perylene-d12	257292	14.276	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB06-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-13	File ID:	2g5012.D
Sampled:	06/19/13 12:00	Prepared:	06/21/13 11:20	Analyzed:	07/05/13 14:29
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 20 mL

Batch: 3F21019 Sequence: AA24824 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<0.080	U	0.042	0.080	0.10
91-20-3	Naphthalene	1	<0.080	U	0.045	0.080	0.10
208-96-8	Acenaphthylene	1	<0.080	U	0.046	0.080	0.10
83-32-9	Acenaphthene	1	<0.080	U	0.045	0.080	0.10
86-73-7	Fluorene	1	<0.080	U	0.047	0.080	0.10
85-01-8	Phenanthrene	1	<0.080	U	0.063	0.080	0.10
120-12-7	Anthracene	1	<0.080	U	0.059	0.080	0.10
206-44-0	Fluoranthene	1	<0.080	U	0.075	0.080	0.10
129-00-0	Pyrene	1	<0.080	U	0.075	0.080	0.10
56-55-3	Benzo(a)anthracene	1	<0.080	U	0.062	0.080	0.10
218-01-9	Chrysene	1	<0.080	U	0.062	0.080	0.10
205-99-2	Benzo(b)fluoranthene	1	<0.080	U	0.072	0.080	0.10
207-08-9	Benzo(k)fluoranthene	1	<0.080	U	0.078	0.080	0.10
50-32-8	Benzo(a)pyrene	1	<0.080	UQ	0.077	0.080	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	<0.080	U	0.070	0.080	0.10
53-70-3	Dibenzo(a,h)anthracene	1	<0.080	U	0.069	0.080	0.10
191-24-2	Benzo(g,h,i)perylene	1	<0.080	U	0.072	0.080	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	4.00	3.2	79	70 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	295739	5.614	297603	5.662	
Acenaphthene-d10	176318	7.363	205693	7.447	
Phenanthrene-d10	278139	8.855	323160	8.947	
Chrysene-d12	260779	11.979	341984	12.104	
Perylene-d12	229320	14.282	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	2g3024.D
Sampled:	06/19/13 12:50	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 16:37
Solids:	85.68	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<29	U	21	29	41
91-20-3	Naphthalene	1	<29	U	21	29	41
208-96-8	Acenaphthylene	1	<29	U	21	29	41
83-32-9	Acenaphthene	1	<29	U	18	29	41
86-73-7	Fluorene	1	<29	U	20	29	41
85-01-8	Phenanthrene	1	<29	U	18	29	41
120-12-7	Anthracene	1	<29	U	16	29	41
206-44-0	Fluoranthene	1	23	J	20	29	41
129-00-0	Pyrene	1	30	J	19	29	41
56-55-3	Benzo(a)anthracene	1	19	J	16	29	41
218-01-9	Chrysene	1	23	J	14	29	41
205-99-2	Benzo(b)fluoranthene	1	40	J	20	29	41
207-08-9	Benzo(k)fluoranthene	1	<29	U	22	29	41
50-32-8	Benzo(a)pyrene	1	<29	U	18	29	41
193-39-5	Indeno(1,2,3-cd)pyrene	1	<29	U	18	29	41
53-70-3	Dibenzo(a,h)anthracene	1	<29	U	19	29	41
191-24-2	Benzo(g,h,i)perylene	1	<29	U	18	29	41

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2330	1900	83	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	300230	5.614	297603	5.662	
Acenaphthene-d10	179410	7.356	205693	7.447	
Phenanthrene-d10	286197	8.849	323160	8.947	
Chrysene-d12	271402	11.979	341984	12.104	
Perylene-d12	247291	14.277	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	2g3025.D
Sampled:	06/19/13 13:00	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 16:58
Solids:	79.34	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<32	U	23	32	44
91-20-3	Naphthalene	1	<32	U	23	32	44
208-96-8	Acenaphthylene	1	<32	U	23	32	44
83-32-9	Acenaphthene	1	<32	U	19	32	44
86-73-7	Fluorene	1	23	J	21	32	44
85-01-8	Phenanthrene	1	73		19	32	44
120-12-7	Anthracene	1	<32	U	18	32	44
206-44-0	Fluoranthene	1	78		21	32	44
129-00-0	Pyrene	1	86		20	32	44
56-55-3	Benzo(a)anthracene	1	78		18	32	44
218-01-9	Chrysene	1	86		15	32	44
205-99-2	Benzo(b)fluoranthene	1	63		21	32	44
207-08-9	Benzo(k)fluoranthene	1	110		24	32	44
50-32-8	Benzo(a)pyrene	1	73		19	32	44
193-39-5	Indeno(1,2,3-cd)pyrene	1	53		19	32	44
53-70-3	Dibenzo(a,h)anthracene	1	58		20	32	44
191-24-2	Benzo(g,h,i)perylene	1	66		19	32	44

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2520	1900	77	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	301701	5.61	297603	5.662	
Acenaphthene-d10	182726	7.363	205693	7.447	
Phenanthrene-d10	293521	8.848	323160	8.947	
Chrysene-d12	280682	11.979	341984	12.104	
Perylene-d12	252493	14.275	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB04-GW-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Ground Water	Laboratory ID:	A303499-16	File ID:	2g5013.D
Sampled:	06/19/13 13:00	Prepared:	06/21/13 11:20	Analyzed:	07/05/13 14:50
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 20 mL

Batch: 3F21019 Sequence: AA24824 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<0.080	U	0.042	0.080	0.10
91-20-3	Naphthalene	1	<0.080	U	0.045	0.080	0.10
208-96-8	Acenaphthylene	1	<0.080	U	0.046	0.080	0.10
83-32-9	Acenaphthene	1	<0.080	U	0.045	0.080	0.10
86-73-7	Fluorene	1	<0.080	U	0.047	0.080	0.10
85-01-8	Phenanthrene	1	<0.080	U	0.063	0.080	0.10
120-12-7	Anthracene	1	<0.080	U	0.059	0.080	0.10
206-44-0	Fluoranthene	1	<0.080	U	0.075	0.080	0.10
129-00-0	Pyrene	1	<0.080	U	0.075	0.080	0.10
56-55-3	Benzo(a)anthracene	1	<0.080	U	0.062	0.080	0.10
218-01-9	Chrysene	1	<0.080	U	0.062	0.080	0.10
205-99-2	Benzo(b)fluoranthene	1	<0.080	U	0.072	0.080	0.10
207-08-9	Benzo(k)fluoranthene	1	<0.080	U	0.078	0.080	0.10
50-32-8	Benzo(a)pyrene	1	<0.080	UQ	0.077	0.080	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	<0.080	U	0.070	0.080	0.10
53-70-3	Dibenzo(a,h)anthracene	1	<0.080	U	0.069	0.080	0.10
191-24-2	Benzo(g,h,i)perylene	1	<0.080	U	0.072	0.080	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	4.00	3.2	80	70 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	308224	5.614	297603	5.662	
Acenaphthene-d10	181440	7.364	205693	7.447	
Phenanthrene-d10	284791	8.855	323160	8.947	
Chrysene-d12	259167	11.979	341984	12.104	
Perylene-d12	236039	14.283	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	2g3026.D
Sampled:	06/19/13 13:30	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 17:20
Solids:	75.47	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch:	3F24006	Sequence:	AA24805	Calibration:	1303004	Instrument:	OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<33	U	24	33	46
91-20-3	Naphthalene	1	<33	U	24	33	46
208-96-8	Acenaphthylene	1	<33	U	24	33	46
83-32-9	Acenaphthene	1	<33	U	20	33	46
86-73-7	Fluorene	1	<33	U	23	33	46
85-01-8	Phenanthrene	1	58		20	33	46
120-12-7	Anthracene	1	<33	U	19	33	46
206-44-0	Fluoranthene	1	72		23	33	46
129-00-0	Pyrene	1	74		21	33	46
56-55-3	Benzo(a)anthracene	1	66		19	33	46
218-01-9	Chrysene	1	74		16	33	46
205-99-2	Benzo(b)fluoranthene	1	64		23	33	46
207-08-9	Benzo(k)fluoranthene	1	93		25	33	46
50-32-8	Benzo(a)pyrene	1	64		20	33	46
193-39-5	Indeno(1,2,3-cd)pyrene	1	48		20	33	46
53-70-3	Dibenzo(a,h)anthracene	1	45	J	21	33	46
191-24-2	Benzo(g,h,i)perylene	1	61		20	33	46

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2650	1600	59	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	316447	5.609	297603	5.662	
Acenaphthene-d10	194327	7.356	205693	7.447	
Phenanthrene-d10	307564	8.849	323160	8.947	
Chrysene-d12	295019	11.979	341984	12.104	
Perylene-d12	262317	14.276	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	2g3027.D
Sampled:	06/19/13 13:40	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 17:42
Solids:	75.96	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<33	U	24	33	46
91-20-3	Naphthalene	1	<33	U	24	33	46
208-96-8	Acenaphthylene	1	<33	U	24	33	46
83-32-9	Acenaphthene	1	<33	U	20	33	46
86-73-7	Fluorene	1	<33	U	22	33	46
85-01-8	Phenanthrene	1	<33	U	20	33	46
120-12-7	Anthracene	1	<33	U	18	33	46
206-44-0	Fluoranthene	1	26	J	22	33	46
129-00-0	Pyrene	1	26	J	21	33	46
56-55-3	Benzo(a)anthracene	1	21	J	18	33	46
218-01-9	Chrysene	1	24	J	16	33	46
205-99-2	Benzo(b)fluoranthene	1	<33	U	22	33	46
207-08-9	Benzo(k)fluoranthene	1	32	J	25	33	46
50-32-8	Benzo(a)pyrene	1	<33	U	20	33	46
193-39-5	Indeno(1,2,3-cd)pyrene	1	<33	U	20	33	46
53-70-3	Dibenzo(a,h)anthracene	1	<33	U	21	33	46
191-24-2	Benzo(g,h,i)perylene	1	<33	U	20	33	46

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2630	2100	78	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	323746	5.614	297603	5.662	
Acenaphthene-d10	196902	7.357	205693	7.447	
Phenanthrene-d10	317590	8.854	323160	8.947	
Chrysene-d12	302758	11.979	341984	12.104	
Perylene-d12	273422	14.277	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	2g3028.D
Sampled:	06/19/13 14:00	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 18:03
Solids:	76.63	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<33	U	23	33	46
91-20-3	Naphthalene	1	<33	U	23	33	46
208-96-8	Acenaphthylene	1	<33	U	23	33	46
83-32-9	Acenaphthene	1	<33	U	20	33	46
86-73-7	Fluorene	1	<33	U	22	33	46
85-01-8	Phenanthrene	1	<33	U	20	33	46
120-12-7	Anthracene	1	<33	U	18	33	46
206-44-0	Fluoranthene	1	<33	U	22	33	46
129-00-0	Pyrene	1	<33	U	21	33	46
56-55-3	Benzo(a)anthracene	1	<33	U	18	33	46
218-01-9	Chrysene	1	<33	U	16	33	46
205-99-2	Benzo(b)fluoranthene	1	<33	U	22	33	46
207-08-9	Benzo(k)fluoranthene	1	<33	U	25	33	46
50-32-8	Benzo(a)pyrene	1	<33	U	20	33	46
193-39-5	Indeno(1,2,3-cd)pyrene	1	<33	U	20	33	46
53-70-3	Dibenzo(a,h)anthracene	1	<33	U	21	33	46
191-24-2	Benzo(g,h,i)perylene	1	<33	U	20	33	46

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2610	2100	82	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	305452	5.609	297603	5.662	
Acenaphthene-d10	187514	7.356	205693	7.447	
Phenanthrene-d10	299835	8.849	323160	8.947	
Chrysene-d12	292699	11.978	341984	12.104	
Perylene-d12	264743	14.277	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	2g3029.D
Sampled:	06/19/13 14:10	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 18:25
Solids:	80.94	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<31	U	22	31	43
91-20-3	Naphthalene	1	<31	U	22	31	43
208-96-8	Acenaphthylene	1	<31	U	22	31	43
83-32-9	Acenaphthene	1	<31	U	19	31	43
86-73-7	Fluorene	1	<31	U	21	31	43
85-01-8	Phenanthrene	1	<31	U	19	31	43
120-12-7	Anthracene	1	<31	U	17	31	43
206-44-0	Fluoranthene	1	<31	U	21	31	43
129-00-0	Pyrene	1	<31	U	20	31	43
56-55-3	Benzo(a)anthracene	1	<31	U	17	31	43
218-01-9	Chrysene	1	15	J	15	31	43
205-99-2	Benzo(b)fluoranthene	1	<31	U	21	31	43
207-08-9	Benzo(k)fluoranthene	1	<31	U	23	31	43
50-32-8	Benzo(a)pyrene	1	<31	U	19	31	43
193-39-5	Indeno(1,2,3-cd)pyrene	1	<31	U	19	31	43
53-70-3	Dibenzo(a,h)anthracene	1	<31	U	20	31	43
191-24-2	Benzo(g,h,i)perylene	1	<31	U	19	31	43

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2470	2000	82	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	304238	5.614	297603	5.662	
Acenaphthene-d10	184665	7.357	205693	7.447	
Phenanthrene-d10	290482	8.849	323160	8.947	
Chrysene-d12	279421	11.98	341984	12.104	
Perylene-d12	253387	14.277	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	2g3030.D
Sampled:	06/19/13 14:15	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 18:47
Solids:	86.11	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	<29	U	21	29	41
91-20-3	Naphthalene	1	<29	U	21	29	41
208-96-8	Acenaphthylene	1	<29	U	21	29	41
83-32-9	Acenaphthene	1	<29	U	17	29	41
86-73-7	Fluorene	1	<29	U	20	29	41
85-01-8	Phenanthrene	1	<29	U	17	29	41
120-12-7	Anthracene	1	<29	U	16	29	41
206-44-0	Fluoranthene	1	<29	U	20	29	41
129-00-0	Pyrene	1	<29	U	19	29	41
56-55-3	Benzo(a)anthracene	1	<29	U	16	29	41
218-01-9	Chrysene	1	<29	U	14	29	41
205-99-2	Benzo(b)fluoranthene	1	<29	U	20	29	41
207-08-9	Benzo(k)fluoranthene	1	<29	U	22	29	41
50-32-8	Benzo(a)pyrene	1	<29	U	17	29	41
193-39-5	Indeno(1,2,3-cd)pyrene	1	<29	U	17	29	41
53-70-3	Dibenzo(a,h)anthracene	1	<29	U	19	29	41
191-24-2	Benzo(g,h,i)perylene	1	<29	U	17	29	41

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2320	1700	72	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	309004	5.614	297603	5.662	
Acenaphthene-d10	184266	7.364	205693	7.447	
Phenanthrene-d10	290871	8.855	323160	8.947	
Chrysene-d12	277934	11.978	341984	12.104	
Perylene-d12	250086	14.276	330576	14.393	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2g3031.D
Sampled:	06/19/13 14:30	Prepared:	06/24/13 09:00	Analyzed:	07/03/13 19:09
Solids:	72.13	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

Batch: 3F24006 Sequence: AA24805 Calibration: 1303004 Instrument: OSVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
91-57-6	2-Methylnaphthalene	1	770		25	35	49
91-20-3	Naphthalene	1	4100		25	35	49
208-96-8	Acenaphthylene	1	<35	U	25	35	49
83-32-9	Acenaphthene	1	360		21	35	49
86-73-7	Fluorene	1	400		24	35	49
85-01-8	Phenanthrene	1	1400		21	35	49
120-12-7	Anthracene	1	340		19	35	49
206-44-0	Fluoranthene	1	990		24	35	49
129-00-0	Pyrene	1	740		22	35	49
56-55-3	Benzo(a)anthracene	1	420		19	35	49
218-01-9	Chrysene	1	410		17	35	49
205-99-2	Benzo(b)fluoranthene	1	350		24	35	49
207-08-9	Benzo(k)fluoranthene	1	200		26	35	49
50-32-8	Benzo(a)pyrene	1	190		21	35	49
193-39-5	Indeno(1,2,3-cd)pyrene	1	64		21	35	49
53-70-3	Dibenzo(a,h)anthracene	1	<35	U	22	35	49
191-24-2	Benzo(g,h,i)perylene	1	64		21	35	49

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl	2770	1600	58	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	314285	5.614	297603	5.662	
Acenaphthene-d10	192905	7.357	205693	7.447	
Phenanthrene-d10	306174	8.854	323160	8.947	
Chrysene-d12	286409	11.978	341984	12.104	
Perylene-d12	258385	14.277	330576	14.393	

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 14:26	9.00	40.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 14:48	9.00	40.00	
TR-2ND-SB07-GW-0613	06/19/13 10:45	06/20/13 09:20	06/21/13 11:20	2.00	7.00	07/05/13 14:07	14.00	40.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 15:10	9.00	40.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 15:31	9.00	40.00	
TR-2ND-SB06D-0.5-01-0613	06/19/13 11:25	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 15:53	9.00	40.00	
TR-2ND-SB06D-05-07-0613	06/19/13 11:35	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 16:15	9.00	40.00	
TR-2ND-SB06-GW-0613	06/19/13 12:00	06/20/13 09:20	06/21/13 11:20	2.00	7.00	07/05/13 14:29	14.00	40.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 16:37	9.00	40.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 16:58	9.00	40.00	
TR-2ND-SB04-GW-0613	06/19/13 13:00	06/20/13 09:20	06/21/13 11:20	2.00	7.00	07/05/13 14:50	14.00	40.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 17:20	9.00	40.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 17:42	9.00	40.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 18:03	9.00	40.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 18:25	9.00	40.00	
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 18:47	9.00	40.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/24/13 09:00	5.00	14.00	07/03/13 19:09	9.00	40.00	

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F21019 Batch Matrix: Water

Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F21019-BLK1	2ft003.D	06/21/13 11:20	
LCS	3F21019-BS1	2ft005.D	06/21/13 11:20	
LCS Dup	3F21019-BSD1	2ft006.D	06/21/13 11:20	
TR-2ND-SB07-GW-0613	A303499-08	2g5011.D	06/21/13 11:20	
TR-2ND-SB06-GW-0613	A303499-13	2g5012.D	06/21/13 11:20	
TR-2ND-SB04-GW-0613	A303499-16	2g5013.D	06/21/13 11:20	

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F24006 Batch Matrix: Soil

Preparation: EPA 3550C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F24006-BLK1	2g3004.D	06/24/13 09:00	
LCS	3F24006-BS1	2g3007.D	06/24/13 09:00	
LCS Dup	3F24006-BSD1	2g3008.D	06/24/13 09:00	
TR-2ND-SB07-0.5-01-0613	A303499-06	2g3018.D	06/24/13 09:00	
TR-2ND-SB07-04-06-0613	A303499-07	2g3019.D	06/24/13 09:00	
TR-2ND-SB06-0.5-01-0613	A303499-09	2g3020.D	06/24/13 09:00	
TR-2ND-SB06-05-07-0613	A303499-10	2g3021.D	06/24/13 09:00	
TR-2ND-SB06D-0.5-01-0613	A303499-11	2g3022.D	06/24/13 09:00	
TR-2ND-SB06D-05-07-0613	A303499-12	2g3023.D	06/24/13 09:00	
TR-2ND-SB04-0.5-01-0613	A303499-14	2g3024.D	06/24/13 09:00	
TR-2ND-SB04-04-06-0613	A303499-15	2g3025.D	06/24/13 09:00	
TR-2ND-SB05-0.5-01-0613	A303499-17	2g3026.D	06/24/13 09:00	
TR-2ND-SB05-03-05-0613	A303499-18	2g3027.D	06/24/13 09:00	
TR-2ND-SB03-0.5-01-0613	A303499-19	2g3028.D	06/24/13 09:00	
TR-2ND-SB03-04-06-0613	A303499-20	2g3029.D	06/24/13 09:00	
TR-2ND-SB02-0.5-1-0613	A303499-21	2g3030.D	06/24/13 09:00	
TR-2ND-SB02-06-08-0613	A303499-22	2g3031.D	06/24/13 09:00	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water	Laboratory ID:	3F21019-BLK1	File ID:	2ft003.D
Prepared:	06/21/13 11:20	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 20 mL
Analyzed:	06/25/13 09:05	Instrument:	OSVGCMS2		
Batch:	3F21019	Sequence:	AA24678	Calibration:	1303004

CAS NO.	COMPOUND	CONC. (ug/L)	Q
91-57-6	2-Methylnaphthalene	<0.080	U
91-20-3	Naphthalene	<0.080	U
208-96-8	Acenaphthylene	<0.080	U
83-32-9	Acenaphthene	<0.080	U
86-73-7	Fluorene	<0.080	U
85-01-8	Phenanthrene	<0.080	U
120-12-7	Anthracene	<0.080	U
206-44-0	Fluoranthene	<0.080	U
129-00-0	Pyrene	<0.080	U
56-55-3	Benzo(a)anthracene	<0.080	U
218-01-9	Chrysene	<0.080	U
205-99-2	Benzo(b)fluoranthene	<0.080	U
207-08-9	Benzo(k)fluoranthene	<0.080	U
50-32-8	Benzo(a)pyrene	<0.080	U
193-39-5	Indeno(1,2,3-cd)pyrene	<0.080	U
53-70-3	Dibenzo(a,h)anthracene	<0.080	U
191-24-2	Benzo(g,h,i)perylene	<0.080	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	4.00	3.9	98	70 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	255046	5.735	297603	5.662	
Acenaphthene-d10	153846	7.499	205693	7.447	
Phenanthrene-d10	242250	9.008	323160	8.947	
Chrysene-d12	225683	12.213	341984	12.104	
Perylene-d12	207059	14.514	330576	14.393	

METHOD BLANK DATA SHEET
EPA 8270D

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F24006-BLK1	File ID:	2g3004.D
Prepared:	06/24/13 09:00	Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL
Analyzed:	07/03/13 08:36	Instrument:	OSVGCMS2		
Batch:	3F24006	Sequence:	AA24805	Calibration:	1303004

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
91-57-6	2-Methylnaphthalene	<25	U
91-20-3	Naphthalene	<25	U
208-96-8	Acenaphthylene	<25	U
83-32-9	Acenaphthene	<25	U
86-73-7	Fluorene	<25	U
85-01-8	Phenanthrene	<25	U
120-12-7	Anthracene	<25	U
206-44-0	Fluoranthene	<25	U
129-00-0	Pyrene	<25	U
56-55-3	Benzo(a)anthracene	<25	U
218-01-9	Chrysene	<25	U
205-99-2	Benzo(b)fluoranthene	<25	U
207-08-9	Benzo(k)fluoranthene	<25	U
50-32-8	Benzo(a)pyrene	<25	U
193-39-5	Indeno(1,2,3-cd)pyrene	<25	U
53-70-3	Dibenzo(a,h)anthracene	<25	U
191-24-2	Benzo(g,h,i)perylene	<25	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
p-Terphenyl	2000	1700	83	50 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	298187	5.611	297603	5.662	
Acenaphthene-d10	177829	7.356	205693	7.447	
Phenanthrene-d10	288245	8.848	323160	8.947	
Chrysene-d12	278022	11.979	341984	12.104	
Perylene-d12	247612	14.277	330576	14.393	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F21019	Laboratory ID:	3F21019-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 20 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
2-Methylnaphthalene	4.00	2.7	67	45 - 105
Naphthalene	4.00	3.2	79	40 - 100
Acenaphthylene	4.00	3.5	87	50 - 105
Acenaphthene	4.00	3.4	84	45 - 110
Fluorene	4.00	3.2	80	50 - 110
Phenanthrene	4.00	3.5	86	50 - 115
Anthracene	4.00	3.7	93	55 - 110
Fluoranthene	4.00	3.7	91	55 - 115
Pyrene	4.00	3.8	96	50 - 130
Benzo(a)anthracene	4.00	3.7	93	55 - 110
Chrysene	4.00	4.1	102	55 - 110
Benzo(b)fluoranthene	4.00	3.9	98	45 - 120
Benzo(k)fluoranthene	4.00	4.2	106	45 - 125
Benzo(a)pyrene	4.00	4.6	116 *	55 - 110
Indeno(1,2,3-cd)pyrene	4.00	3.3	83	45 - 125
Dibenzo(a,h)anthracene	4.00	3.1	78	40 - 125
Benzo(g,h,i)perylene	4.00	3.3	82	40 - 125

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2-Methylnaphthalene	4.00	2.8	69	3	30	45 - 105
Naphthalene	4.00	3.2	81	2	30	40 - 100
Acenaphthylene	4.00	3.6	89	2	30	50 - 105
Acenaphthene	4.00	3.5	86	2	30	45 - 110
Fluorene	4.00	3.3	82	3	30	50 - 110
Phenanthrene	4.00	3.5	86	0.2	30	50 - 115
Anthracene	4.00	3.8	94	1	30	55 - 110
Fluoranthene	4.00	3.7	92	0.8	30	55 - 115
Pyrene	4.00	3.8	96	0.7	30	50 - 130
Benzo(a)anthracene	4.00	3.8	94	2	30	55 - 110

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Water		
Batch:	3F21019	Laboratory ID:	3F21019-BSD1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 20 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chrysene	4.00	4.1	103	1	30	55 - 110
Benzo(b)fluoranthene	4.00	3.9	97	0.3	30	45 - 120
Benzo(k)fluoranthene	4.00	4.4	110	4	30	45 - 125
Benzo(a)pyrene	4.00	4.6	116 *	0.5	30	55 - 110
Indeno(1,2,3-cd)pyrene	4.00	3.4	84	1	30	45 - 125
Dibenzo(a,h)anthracene	4.00	3.2	81	3	30	40 - 125
Benzo(g,h,i)perylene	4.00	3.3	83	1	30	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F24006	Laboratory ID:	3F24006-BS1
Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
2-Methylnaphthalene	2000	1300	63	45 - 105
Naphthalene	2000	1500	77	40 - 105
Acenaphthylene	2000	1700	86	45 - 105
Acenaphthene	2000	1700	84	45 - 110
Fluorene	2000	1600	81	50 - 110
Phenanthrene	2000	1700	85	50 - 110
Anthracene	2000	1700	86	55 - 105
Fluoranthene	2000	1700	86	55 - 115
Pyrene	2000	1800	88	45 - 125
Benzo(a)anthracene	2000	1700	87	50 - 110
Chrysene	2000	1800	92	55 - 110
Benzo(b)fluoranthene	2000	1600	79	45 - 115
Benzo(k)fluoranthene	2000	2100	103	45 - 125
Benzo(a)pyrene	2000	1900	96	50 - 110
Indeno(1,2,3-cd)pyrene	2000	1700	83	40 - 120
Dibenzo(a,h)anthracene	2000	1700	86	40 - 125
Benzo(g,h,i)perylene	2000	1600	80	40 - 125

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2-Methylnaphthalene	2000	1200	58	7	30	45 - 105
Naphthalene	2000	1500	73	5	30	40 - 105
Acenaphthylene	2000	1600	82	4	30	45 - 105
Acenaphthene	2000	1600	78	8	30	45 - 110
Fluorene	2000	1500	77	5	30	50 - 110
Phenanthrene	2000	1600	81	6	30	50 - 110
Anthracene	2000	1600	81	6	30	55 - 105
Fluoranthene	2000	1600	80	7	30	55 - 115
Pyrene	2000	1700	84	5	30	45 - 125
Benzo(a)anthracene	2000	1600	82	6	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F24006	Laboratory ID:	3F24006-BSD1
Preparation:	EPA 3550C_MS	Initial/Final:	15 g / 300 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chrysene	2000	1800	88	4	30	55 - 110
Benzo(b)fluoranthene	2000	1600	79	0.1	30	45 - 115
Benzo(k)fluoranthene	2000	1800	92	11	30	45 - 125
Benzo(a)pyrene	2000	1800	90	6	30	50 - 110
Indeno(1,2,3-cd)pyrene	2000	1600	78	6	30	40 - 120
Dibenzo(a,h)anthracene	2000	1600	80	6	30	40 - 125
Benzo(g,h,i)perylene	2000	1500	75	6	30	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23286	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Secondary Cal Check (AA23286-SCV1)			Lab File ID: 2c1010.D		Analyzed: 03/01/13 17:07			
p-Terphenyl	0.0500	106	80 - 120	10.642	10.64086	0.0011	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24678	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24678-CCV1)			Lab File ID: 2ft002.D		Analyzed: 06/25/13 08:43			
p-Terphenyl	0.100	90	80 - 120	10.719	10.64086	0.0781	+/-1.0	
p-Terphenyl	0.100	90	80 - 120	10.719	10.64086	0.0781	+/-1.0	
Blank (3F21019-BLK1)			Lab File ID: 2ft003.D		Analyzed: 06/25/13 09:05			
p-Terphenyl	4.00	98	70 - 130	10.715	10.64086	0.0741	+/-1.0	
p-Terphenyl	4.00	98	70 - 130	10.715	10.64086	0.0741	+/-1.0	
LCS (3F21019-BS1)			Lab File ID: 2ft005.D		Analyzed: 06/25/13 10:10			
p-Terphenyl	4.00	92	70 - 130	10.714	10.64086	0.0731	+/-1.0	
p-Terphenyl	4.00	92	70 - 130	10.714	10.64086	0.0731	+/-1.0	
LCS Dup (3F21019-BSD1)			Lab File ID: 2ft006.D		Analyzed: 06/25/13 11:15			
p-Terphenyl	4.00	93	70 - 130	10.714	10.64086	0.0731	+/-1.0	
p-Terphenyl	4.00	93	70 - 130	10.714	10.64086	0.0731	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24805	Instrument:	OSVGCMS2
Matrix:	Soil	Calibration:	1303004

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24805-CCV1)			Lab File ID: 2g3002.D		Analyzed: 07/03/13 07:53			
p-Terphenyl	0.100	90	80 - 120	10.53	10.64086	-0.1109	+/-1.0	
p-Terphenyl	0.100	90	80 - 120	10.53	10.64086	-0.1109	+/-1.0	
Blank (3F24006-BLK1)			Lab File ID: 2g3004.D		Analyzed: 07/03/13 08:36			
p-Terphenyl	2000	83	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
p-Terphenyl	2000	83	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
LCS (3F24006-BS1)			Lab File ID: 2g3007.D		Analyzed: 07/03/13 10:27			
p-Terphenyl	2000	96	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
p-Terphenyl	2000	96	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
LCS Dup (3F24006-BSD1)			Lab File ID: 2g3008.D		Analyzed: 07/03/13 10:49			
p-Terphenyl	2000	90	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
p-Terphenyl	2000	90	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 2g3018.D		Analyzed: 07/03/13 14:26			
p-Terphenyl	2370	81	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 2g3019.D		Analyzed: 07/03/13 14:48			
p-Terphenyl	2480	79	50 - 150	10.528	10.64086	-0.1129	+/-1.0	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 2g3020.D		Analyzed: 07/03/13 15:10			
p-Terphenyl	2380	81	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 2g3021.D		Analyzed: 07/03/13 15:31			
p-Terphenyl	2530	74	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 2g3022.D		Analyzed: 07/03/13 15:53			
p-Terphenyl	2400	86	50 - 150	10.53	10.64086	-0.1109	+/-1.0	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 2g3023.D		Analyzed: 07/03/13 16:15			
p-Terphenyl	2560	82	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 2g3024.D		Analyzed: 07/03/13 16:37			
p-Terphenyl	2330	83	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 2g3025.D		Analyzed: 07/03/13 16:58			
p-Terphenyl	2520	77	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 2g3026.D		Analyzed: 07/03/13 17:20			
p-Terphenyl	2650	59	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 2g3027.D		Analyzed: 07/03/13 17:42			
p-Terphenyl	2630	78	50 - 150	10.528	10.64086	-0.1129	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24805	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 2g3028.D		Analyzed: 07/03/13 18:03			
p-Terphenyl	2610	82	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 2g3029.D		Analyzed: 07/03/13 18:25			
p-Terphenyl	2470	82	50 - 150	10.53	10.64086	-0.1109	+/-1.0	
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 2g3030.D		Analyzed: 07/03/13 18:47			
p-Terphenyl	2320	72	50 - 150	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 2g3031.D		Analyzed: 07/03/13 19:09			
p-Terphenyl	2770	58	50 - 150	10.528	10.64086	-0.1129	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24824	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24824-CCV1)			Lab File ID: 2g5002.D		Analyzed: 07/05/13 10:08			
p-Terphenyl	0.100	88	80 - 120	10.535	10.64086	-0.1059	+/-1.0	
p-Terphenyl	0.100	88	80 - 120	10.535	10.64086	-0.1059	+/-1.0	
TR-2ND-SB07-GW-0613 (A303499-08)			Lab File ID: 2g5011.D		Analyzed: 07/05/13 14:07			
p-Terphenyl	4.00	82	70 - 130	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB06-GW-0613 (A303499-13)			Lab File ID: 2g5012.D		Analyzed: 07/05/13 14:29			
p-Terphenyl	4.00	79	70 - 130	10.529	10.64086	-0.1119	+/-1.0	
TR-2ND-SB04-GW-0613 (A303499-16)			Lab File ID: 2g5013.D		Analyzed: 07/05/13 14:50			
p-Terphenyl	4.00	80	70 - 130	10.529	10.64086	-0.1119	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23286	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA23286-CAL2)			Lab File ID: 2c1003.D			Analyzed: 03/01/13 14:29			
Naphthalene-d8	294062	5.669	297603	5.662	99	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	216316	7.453	205693	7.447	105	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	337552	8.948	323160	8.947	104	50 - 200	0.0010	+/-0.50	
Chrysene-d12	341368	12.104	341984	12.104	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	324604	14.394	330576	14.393	98	50 - 200	0.0010	+/-0.50	
Cal Standard (AA23286-CAL3)			Lab File ID: 2c1004.D			Analyzed: 03/01/13 14:53			
Naphthalene-d8	324993	5.668	297603	5.662	109	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	221819	7.453	205693	7.447	108	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	349541	8.948	323160	8.947	108	50 - 200	0.0010	+/-0.50	
Chrysene-d12	346672	12.104	341984	12.104	101	50 - 200	0.0000	+/-0.50	
Perylene-d12	336491	14.392	330576	14.393	102	50 - 200	-0.0010	+/-0.50	
Cal Standard (AA23286-CAL4)			Lab File ID: 2c1005.D			Analyzed: 03/01/13 15:17			
Naphthalene-d8	311303	5.671	297603	5.662	105	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	213134	7.453	205693	7.447	104	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	335228	8.947	323160	8.947	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12	332701	12.104	341984	12.104	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	321337	14.392	330576	14.393	97	50 - 200	-0.0010	+/-0.50	
Cal Standard (AA23286-CAL5)			Lab File ID: 2c1006.D			Analyzed: 03/01/13 15:39			
Naphthalene-d8	297603	5.662	297603	5.662	100	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	205693	7.447	205693	7.447	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	323160	8.947	323160	8.947	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12	341984	12.104	341984	12.104	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	330576	14.393	330576	14.393	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA23286-CAL6)			Lab File ID: 2c1007.D			Analyzed: 03/01/13 16:01			
Naphthalene-d8	297149	5.655	297603	5.662	100	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	196694	7.445	205693	7.447	96	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	310479	8.947	323160	8.947	96	50 - 200	0.0000	+/-0.50	
Chrysene-d12	305197	12.103	341984	12.104	89	50 - 200	-0.0010	+/-0.50	
Perylene-d12	305072	14.393	330576	14.393	92	50 - 200	0.0000	+/-0.50	
Cal Standard (AA23286-CAL7)			Lab File ID: 2c1008.D			Analyzed: 03/01/13 16:22			
Naphthalene-d8	310863	5.633	297603	5.662	104	50 - 200	-0.0290	+/-0.50	
Acenaphthene-d10	203967	7.438	205693	7.447	99	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	323449	8.941	323160	8.947	100	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	329016	12.104	341984	12.104	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	330281	14.394	330576	14.393	100	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23286	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA23286-CAL1)			Lab File ID: 2c1009.D			Analyzed: 03/01/13 16:46			
Naphthalene-d8	273026	5.668	297603	5.662	92	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	212726	7.453	205693	7.447	103	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	381775	8.948	323160	8.947	118	50 - 200	0.0010	+/-0.50	
Chrysene-d12	378160	12.109	341984	12.104	111	50 - 200	0.0050	+/-0.50	
Perylene-d12	352523	14.398	330576	14.393	107	50 - 200	0.0050	+/-0.50	
Secondary Cal Check (AA23286-SCV1)			Lab File ID: 2c1010.D			Analyzed: 03/01/13 17:07			
Naphthalene-d8	266236	5.66	297603	5.662	89	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	203886	7.446	205693	7.447	99	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	315328	8.948	323160	8.947	98	50 - 200	0.0010	+/-0.50	
Chrysene-d12	320415	12.103	341984	12.104	94	50 - 200	-0.0010	+/-0.50	
Perylene-d12	307346	14.392	330576	14.393	93	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24678
Instrument: OSVGCMS2
Matrix: Water
Calibration: 1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24678-CCV1)			Lab File ID: 2ft002.D			Analyzed: 06/25/13 08:43			
Naphthalene-d8	275095	5.736	297603	5.662	92	50 - 200	0.0740	+/-0.50	
Naphthalene-d8	275095	5.736	297603	5.662	92	50 - 200	0.0740	+/-0.50	
Acenaphthene-d10	153435	7.506	205693	7.447	75	50 - 200	0.0590	+/-0.50	
Acenaphthene-d10	153435	7.506	205693	7.447	75	50 - 200	0.0590	+/-0.50	
Phenanthrene-d10	243271	9.006	323160	8.947	75	50 - 200	0.0590	+/-0.50	
Phenanthrene-d10	243271	9.006	323160	8.947	75	50 - 200	0.0590	+/-0.50	
Chrysene-d12	219514	12.218	341984	12.104	64	50 - 200	0.1140	+/-0.50	
Chrysene-d12	219514	12.218	341984	12.104	64	50 - 200	0.1140	+/-0.50	
Perylene-d12	201161	14.521	330576	14.393	61	50 - 200	0.1280	+/-0.50	
Perylene-d12	201161	14.521	330576	14.393	61	50 - 200	0.1280	+/-0.50	
Blank (3F21019-BLK1)			Lab File ID: 2ft003.D			Analyzed: 06/25/13 09:05			
Naphthalene-d8	255046	5.735	297603	5.662	86	50 - 200	0.0730	+/-0.50	
Naphthalene-d8	255046	5.735	297603	5.662	86	50 - 200	0.0730	+/-0.50	
Acenaphthene-d10	153846	7.499	205693	7.447	75	50 - 200	0.0520	+/-0.50	
Acenaphthene-d10	153846	7.499	205693	7.447	75	50 - 200	0.0520	+/-0.50	
Phenanthrene-d10	242250	9.008	323160	8.947	75	50 - 200	0.0610	+/-0.50	
Phenanthrene-d10	242250	9.008	323160	8.947	75	50 - 200	0.0610	+/-0.50	
Chrysene-d12	225683	12.213	341984	12.104	66	50 - 200	0.1090	+/-0.50	
Chrysene-d12	225683	12.213	341984	12.104	66	50 - 200	0.1090	+/-0.50	
Perylene-d12	207059	14.514	330576	14.393	63	50 - 200	0.1210	+/-0.50	
Perylene-d12	207059	14.514	330576	14.393	63	50 - 200	0.1210	+/-0.50	
LCS (3F21019-BS1)			Lab File ID: 2ft005.D			Analyzed: 06/25/13 10:10			
Naphthalene-d8	241604	5.741	297603	5.662	81	50 - 200	0.0790	+/-0.50	
Naphthalene-d8	241604	5.741	297603	5.662	81	50 - 200	0.0790	+/-0.50	
Acenaphthene-d10	141518	7.505	205693	7.447	69	50 - 200	0.0580	+/-0.50	
Acenaphthene-d10	141518	7.505	205693	7.447	69	50 - 200	0.0580	+/-0.50	
Phenanthrene-d10	227982	9.007	323160	8.947	71	50 - 200	0.0600	+/-0.50	
Phenanthrene-d10	227982	9.007	323160	8.947	71	50 - 200	0.0600	+/-0.50	
Chrysene-d12	215027	12.213	341984	12.104	63	50 - 200	0.1090	+/-0.50	
Chrysene-d12	215027	12.213	341984	12.104	63	50 - 200	0.1090	+/-0.50	
Perylene-d12	198936	14.513	330576	14.393	60	50 - 200	0.1200	+/-0.50	
Perylene-d12	198936	14.513	330576	14.393	60	50 - 200	0.1200	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24678	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (3F21019-BSD1)			Lab File ID: 2ft006.D			Analyzed: 06/25/13 11:15			
Naphthalene-d8	226225	5.735	297603	5.662	76	50 - 200	0.0730	+/-0.50	
Naphthalene-d8	226225	5.735	297603	5.662	76	50 - 200	0.0730	+/-0.50	
Acenaphthene-d10	133293	7.498	205693	7.447	65	50 - 200	0.0510	+/-0.50	
Acenaphthene-d10	133293	7.498	205693	7.447	65	50 - 200	0.0510	+/-0.50	
Phenanthrene-d10	218379	9.007	323160	8.947	68	50 - 200	0.0600	+/-0.50	
Phenanthrene-d10	218379	9.007	323160	8.947	68	50 - 200	0.0600	+/-0.50	
Chrysene-d12	204925	12.207	341984	12.104	60	50 - 200	0.1030	+/-0.50	
Chrysene-d12	204925	12.207	341984	12.104	60	50 - 200	0.1030	+/-0.50	
Perylene-d12	191391	14.51	330576	14.393	58	50 - 200	0.1170	+/-0.50	
Perylene-d12	191391	14.51	330576	14.393	58	50 - 200	0.1170	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24805
Instrument: OSVGCMS2
Matrix: Soil
Calibration: 1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24805-CCV1)			Lab File ID: 2g3002.D			Analyzed: 07/03/13 07:53			
Naphthalene-d8	317149	5.607	297603	5.662	107	50 - 200	-0.0550	+/-0.50	
Naphthalene-d8	317149	5.607	297603	5.662	107	50 - 200	-0.0550	+/-0.50	
Acenaphthene-d10	180501	7.364	205693	7.447	88	50 - 200	-0.0830	+/-0.50	
Acenaphthene-d10	180501	7.364	205693	7.447	88	50 - 200	-0.0830	+/-0.50	
Phenanthrene-d10	291890	8.856	323160	8.947	90	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	291890	8.856	323160	8.947	90	50 - 200	-0.0910	+/-0.50	
Chrysene-d12	272451	11.984	341984	12.104	80	50 - 200	-0.1200	+/-0.50	
Chrysene-d12	272451	11.984	341984	12.104	80	50 - 200	-0.1200	+/-0.50	
Perylene-d12	241675	14.282	330576	14.393	73	50 - 200	-0.1110	+/-0.50	
Perylene-d12	241675	14.282	330576	14.393	73	50 - 200	-0.1110	+/-0.50	
Blank (3F24006-BLK1)			Lab File ID: 2g3004.D			Analyzed: 07/03/13 08:36			
Naphthalene-d8	298187	5.611	297603	5.662	100	50 - 200	-0.0510	+/-0.50	
Naphthalene-d8	298187	5.611	297603	5.662	100	50 - 200	-0.0510	+/-0.50	
Acenaphthene-d10	177829	7.356	205693	7.447	86	50 - 200	-0.0910	+/-0.50	
Acenaphthene-d10	177829	7.356	205693	7.447	86	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	288245	8.848	323160	8.947	89	50 - 200	-0.0990	+/-0.50	
Phenanthrene-d10	288245	8.848	323160	8.947	89	50 - 200	-0.0990	+/-0.50	
Chrysene-d12	278022	11.979	341984	12.104	81	50 - 200	-0.1250	+/-0.50	
Chrysene-d12	278022	11.979	341984	12.104	81	50 - 200	-0.1250	+/-0.50	
Perylene-d12	247612	14.277	330576	14.393	75	50 - 200	-0.1160	+/-0.50	
Perylene-d12	247612	14.277	330576	14.393	75	50 - 200	-0.1160	+/-0.50	
LCS (3F24006-BS1)			Lab File ID: 2g3007.D			Analyzed: 07/03/13 10:27			
Naphthalene-d8	312807	5.61	297603	5.662	105	50 - 200	-0.0520	+/-0.50	
Naphthalene-d8	312807	5.61	297603	5.662	105	50 - 200	-0.0520	+/-0.50	
Acenaphthene-d10	183603	7.357	205693	7.447	89	50 - 200	-0.0900	+/-0.50	
Acenaphthene-d10	183603	7.357	205693	7.447	89	50 - 200	-0.0900	+/-0.50	
Phenanthrene-d10	297955	8.849	323160	8.947	92	50 - 200	-0.0980	+/-0.50	
Phenanthrene-d10	297955	8.849	323160	8.947	92	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	289328	11.974	341984	12.104	85	50 - 200	-0.1300	+/-0.50	
Chrysene-d12	289328	11.974	341984	12.104	85	50 - 200	-0.1300	+/-0.50	
Perylene-d12	262743	14.276	330576	14.393	79	50 - 200	-0.1170	+/-0.50	
Perylene-d12	262743	14.276	330576	14.393	79	50 - 200	-0.1170	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24805
Instrument: OSVGCMS2
Matrix: Water
Calibration: 1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (3F24006-BSD1)			Lab File ID: 2g3008.D			Analyzed: 07/03/13 10:49			
Naphthalene-d8	303744	5.609	297603	5.662	102	50 - 200	-0.0530	+/-0.50	
Naphthalene-d8	303744	5.609	297603	5.662	102	50 - 200	-0.0530	+/-0.50	
Acenaphthene-d10	175675	7.356	205693	7.447	85	50 - 200	-0.0910	+/-0.50	
Acenaphthene-d10	175675	7.356	205693	7.447	85	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	287214	8.849	323160	8.947	89	50 - 200	-0.0980	+/-0.50	
Phenanthrene-d10	287214	8.849	323160	8.947	89	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	276322	11.978	341984	12.104	81	50 - 200	-0.1260	+/-0.50	
Chrysene-d12	276322	11.978	341984	12.104	81	50 - 200	-0.1260	+/-0.50	
Perylene-d12	250582	14.276	330576	14.393	76	50 - 200	-0.1170	+/-0.50	
Perylene-d12	250582	14.276	330576	14.393	76	50 - 200	-0.1170	+/-0.50	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 2g3018.D			Analyzed: 07/03/13 14:26			
Naphthalene-d8	296751	5.61	297603	5.662	100	50 - 200	-0.0520	+/-0.50	
Acenaphthene-d10	177226	7.356	205693	7.447	86	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	284982	8.849	323160	8.947	88	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	275098	11.979	341984	12.104	80	50 - 200	-0.1250	+/-0.50	
Perylene-d12	251057	14.277	330576	14.393	76	50 - 200	-0.1160	+/-0.50	
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 2g3019.D			Analyzed: 07/03/13 14:48			
Naphthalene-d8	305955	5.609	297603	5.662	103	50 - 200	-0.0530	+/-0.50	
Acenaphthene-d10	185185	7.363	205693	7.447	90	50 - 200	-0.0840	+/-0.50	
Phenanthrene-d10	295156	8.855	323160	8.947	91	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	286554	11.978	341984	12.104	84	50 - 200	-0.1260	+/-0.50	
Perylene-d12	259446	14.276	330576	14.393	78	50 - 200	-0.1170	+/-0.50	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 2g3020.D			Analyzed: 07/03/13 15:10			
Naphthalene-d8	291252	5.615	297603	5.662	98	50 - 200	-0.0470	+/-0.50	
Acenaphthene-d10	173385	7.356	205693	7.447	84	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	277577	8.849	323160	8.947	86	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	267995	11.979	341984	12.104	78	50 - 200	-0.1250	+/-0.50	
Perylene-d12	243172	14.277	330576	14.393	74	50 - 200	-0.1160	+/-0.50	
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 2g3021.D			Analyzed: 07/03/13 15:31			
Naphthalene-d8	297919	5.614	297603	5.662	100	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	178170	7.356	205693	7.447	87	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	283300	8.849	323160	8.947	88	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	268984	11.979	341984	12.104	79	50 - 200	-0.1250	+/-0.50	
Perylene-d12	245007	14.276	330576	14.393	74	50 - 200	-0.1170	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24805
Instrument: OSVGCMS2
Matrix: Water
Calibration: 1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 2g3022.D			Analyzed: 07/03/13 15:53			
Naphthalene-d8	308024	5.608	297603	5.662	104	50 - 200	-0.0540	+/-0.50	
Acenaphthene-d10	186707	7.357	205693	7.447	91	50 - 200	-0.0900	+/-0.50	
Phenanthrene-d10	298119	8.85	323160	8.947	92	50 - 200	-0.0970	+/-0.50	
Chrysene-d12	286858	11.979	341984	12.104	84	50 - 200	-0.1250	+/-0.50	
Perylene-d12	259158	14.277	330576	14.393	78	50 - 200	-0.1160	+/-0.50	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 2g3023.D			Analyzed: 07/03/13 16:15			
Naphthalene-d8	310461	5.614	297603	5.662	104	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	185481	7.363	205693	7.447	90	50 - 200	-0.0840	+/-0.50	
Phenanthrene-d10	295889	8.855	323160	8.947	92	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	282031	11.978	341984	12.104	82	50 - 200	-0.1260	+/-0.50	
Perylene-d12	257292	14.276	330576	14.393	78	50 - 200	-0.1170	+/-0.50	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 2g3024.D			Analyzed: 07/03/13 16:37			
Naphthalene-d8	300230	5.614	297603	5.662	101	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	179410	7.356	205693	7.447	87	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	286197	8.849	323160	8.947	89	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	271402	11.979	341984	12.104	79	50 - 200	-0.1250	+/-0.50	
Perylene-d12	247291	14.277	330576	14.393	75	50 - 200	-0.1160	+/-0.50	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 2g3025.D			Analyzed: 07/03/13 16:58			
Naphthalene-d8	301701	5.61	297603	5.662	101	50 - 200	-0.0520	+/-0.50	
Acenaphthene-d10	182726	7.363	205693	7.447	89	50 - 200	-0.0840	+/-0.50	
Phenanthrene-d10	293521	8.848	323160	8.947	91	50 - 200	-0.0990	+/-0.50	
Chrysene-d12	280682	11.979	341984	12.104	82	50 - 200	-0.1250	+/-0.50	
Perylene-d12	252493	14.275	330576	14.393	76	50 - 200	-0.1180	+/-0.50	
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 2g3026.D			Analyzed: 07/03/13 17:20			
Naphthalene-d8	316447	5.609	297603	5.662	106	50 - 200	-0.0530	+/-0.50	
Acenaphthene-d10	194327	7.356	205693	7.447	94	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	307564	8.849	323160	8.947	95	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	295019	11.979	341984	12.104	86	50 - 200	-0.1250	+/-0.50	
Perylene-d12	262317	14.276	330576	14.393	79	50 - 200	-0.1170	+/-0.50	
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 2g3027.D			Analyzed: 07/03/13 17:42			
Naphthalene-d8	323746	5.614	297603	5.662	109	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	196902	7.357	205693	7.447	96	50 - 200	-0.0900	+/-0.50	
Phenanthrene-d10	317590	8.854	323160	8.947	98	50 - 200	-0.0930	+/-0.50	
Chrysene-d12	302758	11.979	341984	12.104	89	50 - 200	-0.1250	+/-0.50	
Perylene-d12	273422	14.277	330576	14.393	83	50 - 200	-0.1160	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24805	Instrument:	OSVGCMS2
Matrix:	Water	Calibration:	1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 2g3028.D			Analyzed: 07/03/13 18:03			
Naphthalene-d8	305452	5.609	297603	5.662	103	50 - 200	-0.0530	+/-0.50	
Acenaphthene-d10	187514	7.356	205693	7.447	91	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	299835	8.849	323160	8.947	93	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	292699	11.978	341984	12.104	86	50 - 200	-0.1260	+/-0.50	
Perylene-d12	264743	14.277	330576	14.393	80	50 - 200	-0.1160	+/-0.50	
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 2g3029.D			Analyzed: 07/03/13 18:25			
Naphthalene-d8	304238	5.614	297603	5.662	102	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	184665	7.357	205693	7.447	90	50 - 200	-0.0900	+/-0.50	
Phenanthrene-d10	290482	8.849	323160	8.947	90	50 - 200	-0.0980	+/-0.50	
Chrysene-d12	279421	11.98	341984	12.104	82	50 - 200	-0.1240	+/-0.50	
Perylene-d12	253387	14.277	330576	14.393	77	50 - 200	-0.1160	+/-0.50	
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 2g3030.D			Analyzed: 07/03/13 18:47			
Naphthalene-d8	309004	5.614	297603	5.662	104	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	184266	7.364	205693	7.447	90	50 - 200	-0.0830	+/-0.50	
Phenanthrene-d10	290871	8.855	323160	8.947	90	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	277934	11.978	341984	12.104	81	50 - 200	-0.1260	+/-0.50	
Perylene-d12	250086	14.276	330576	14.393	76	50 - 200	-0.1170	+/-0.50	
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 2g3031.D			Analyzed: 07/03/13 19:09			
Naphthalene-d8	314285	5.614	297603	5.662	106	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	192905	7.357	205693	7.447	94	50 - 200	-0.0900	+/-0.50	
Phenanthrene-d10	306174	8.854	323160	8.947	95	50 - 200	-0.0930	+/-0.50	
Chrysene-d12	286409	11.978	341984	12.104	84	50 - 200	-0.1260	+/-0.50	
Perylene-d12	258385	14.277	330576	14.393	78	50 - 200	-0.1160	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24824	Instrument:	OSVGCMS2
Matrix:	Soil	Calibration:	1303004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA24824-CCV1)			Lab File ID: 2g5002.D			Analyzed: 07/05/13 10:08			
Naphthalene-d8	320496	5.614	297603	5.662	108	50 - 200	-0.0480	+/-0.50	
Naphthalene-d8	320496	5.614	297603	5.662	108	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	183911	7.363	205693	7.447	89	50 - 200	-0.0840	+/-0.50	
Acenaphthene-d10	183911	7.363	205693	7.447	89	50 - 200	-0.0840	+/-0.50	
Phenanthrene-d10	290088	8.855	323160	8.947	90	50 - 200	-0.0920	+/-0.50	
Phenanthrene-d10	290088	8.855	323160	8.947	90	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	269224	11.985	341984	12.104	79	50 - 200	-0.1190	+/-0.50	
Chrysene-d12	269224	11.985	341984	12.104	79	50 - 200	-0.1190	+/-0.50	
Perylene-d12	244055	14.283	330576	14.393	74	50 - 200	-0.1100	+/-0.50	
Perylene-d12	244055	14.283	330576	14.393	74	50 - 200	-0.1100	+/-0.50	
TR-2ND-SB07-GW-0613 (A303499-08)			Lab File ID: 2g5011.D			Analyzed: 07/05/13 14:07			
Naphthalene-d8	312164	5.614	297603	5.662	105	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	180260	7.363	205693	7.447	88	50 - 200	-0.0840	+/-0.50	
Phenanthrene-d10	280857	8.855	323160	8.947	87	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	256727	11.983	341984	12.104	75	50 - 200	-0.1210	+/-0.50	
Perylene-d12	230884	14.283	330576	14.393	70	50 - 200	-0.1100	+/-0.50	
TR-2ND-SB06-GW-0613 (A303499-13)			Lab File ID: 2g5012.D			Analyzed: 07/05/13 14:29			
Naphthalene-d8	295739	5.614	297603	5.662	99	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	176318	7.363	205693	7.447	86	50 - 200	-0.0840	+/-0.50	
Phenanthrene-d10	278139	8.855	323160	8.947	86	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	260779	11.979	341984	12.104	76	50 - 200	-0.1250	+/-0.50	
Perylene-d12	229320	14.282	330576	14.393	69	50 - 200	-0.1110	+/-0.50	
TR-2ND-SB04-GW-0613 (A303499-16)			Lab File ID: 2g5013.D			Analyzed: 07/05/13 14:50			
Naphthalene-d8	308224	5.614	297603	5.662	104	50 - 200	-0.0480	+/-0.50	
Acenaphthene-d10	181440	7.364	205693	7.447	88	50 - 200	-0.0830	+/-0.50	
Phenanthrene-d10	284791	8.855	323160	8.947	88	50 - 200	-0.0920	+/-0.50	
Chrysene-d12	259167	11.979	341984	12.104	76	50 - 200	-0.1250	+/-0.50	
Perylene-d12	236039	14.283	330576	14.393	71	50 - 200	-0.1100	+/-0.50	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23286	Instrument:	OSVGCMS2
		Calibration:	1303004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA23286-TUN1	2c1001.D	03/01/13 12:56
Cal Standard	AA23286-CAL2	2c1003.D	03/01/13 14:29
Cal Standard	AA23286-CAL3	2c1004.D	03/01/13 14:53
Cal Standard	AA23286-CAL4	2c1005.D	03/01/13 15:17
Cal Standard	AA23286-CAL5	2c1006.D	03/01/13 15:39
Cal Standard	AA23286-CAL6	2c1007.D	03/01/13 16:01
Cal Standard	AA23286-CAL7	2c1008.D	03/01/13 16:22
Cal Standard	AA23286-CAL1	2c1009.D	03/01/13 16:46
Secondary Cal Check	AA23286-SCV1	2c1010.D	03/01/13 17:07

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24678	Instrument:	OSVGCMS2
		Calibration:	1303004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24678-TUN1	2ft001.D	06/25/13 08:25
Calibration Check	AA24678-CCV1	2ft002.D	06/25/13 08:43
Blank	3F21019-BLK1	2ft003.D	06/25/13 09:05
LCS	3F21019-BS1	2ft005.D	06/25/13 10:10
LCS Dup	3F21019-BSD1	2ft006.D	06/25/13 11:15

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24805	Instrument:	OSVGCMS2
		Calibration:	1303004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24805-TUN1	2g3001.D	07/03/13 07:34
Calibration Check	AA24805-CCV1	2g3002.D	07/03/13 07:53
Blank	3F24006-BLK1	2g3004.D	07/03/13 08:36
LCS	3F24006-BS1	2g3007.D	07/03/13 10:27
LCS Dup	3F24006-BSD1	2g3008.D	07/03/13 10:49
TR-2ND-SB07-0.5-01-0613	A303499-06	2g3018.D	07/03/13 14:26
TR-2ND-SB07-04-06-0613	A303499-07	2g3019.D	07/03/13 14:48
TR-2ND-SB06-0.5-01-0613	A303499-09	2g3020.D	07/03/13 15:10
TR-2ND-SB06-05-07-0613	A303499-10	2g3021.D	07/03/13 15:31
TR-2ND-SB06D-0.5-01-0613	A303499-11	2g3022.D	07/03/13 15:53
TR-2ND-SB06D-05-07-0613	A303499-12	2g3023.D	07/03/13 16:15
TR-2ND-SB04-0.5-01-0613	A303499-14	2g3024.D	07/03/13 16:37
TR-2ND-SB04-04-06-0613	A303499-15	2g3025.D	07/03/13 16:58
TR-2ND-SB05-0.5-01-0613	A303499-17	2g3026.D	07/03/13 17:20
TR-2ND-SB05-03-05-0613	A303499-18	2g3027.D	07/03/13 17:42
TR-2ND-SB03-0.5-01-0613	A303499-19	2g3028.D	07/03/13 18:03
TR-2ND-SB03-04-06-0613	A303499-20	2g3029.D	07/03/13 18:25
TR-2ND-SB02-0.5-1-0613	A303499-21	2g3030.D	07/03/13 18:47
TR-2ND-SB02-06-08-0613	A303499-22	2g3031.D	07/03/13 19:09

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24824	Instrument:	OSVGCMS2
		Calibration:	1303004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA24824-TUN1	2g5001.D	07/05/13 09:26
Calibration Check	AA24824-CCV1	2g5002.D	07/05/13 10:08
TR-2ND-SB07-GW-0613	A303499-08	2g5011.D	07/05/13 14:07
TR-2ND-SB06-GW-0613	A303499-13	2g5012.D	07/05/13 14:29
TR-2ND-SB04-GW-0613	A303499-16	2g5013.D	07/05/13 14:50

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2c1001.D	Injection Date:	03/01/13
Instrument ID:	OSVGCMS2	Injection Time:	12:56
Sequence:	AA23286	Lab Sample ID:	AA23286-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	38.5	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0.56	PASS
127	10 - 80% of 198	52.3	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.45	PASS
275	10 - 60% of 198	26.8	PASS
365	1 - 200% of 198	2.58	PASS
441	0.1 - 24% of 442	15	PASS
442	50 - 200% of 198	61.7	PASS
443	15 - 24% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2ft001.D	Injection Date:	06/25/13
Instrument ID:	OSVGCMS2	Injection Time:	08:25
Sequence:	AA24678	Lab Sample ID:	AA24678-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	54.9	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0	PASS
127	10 - 80% of 198	61.6	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.26	PASS
275	10 - 60% of 198	27.3	PASS
365	1 - 200% of 198	2.79	PASS
441	0.1 - 24% of 442	13.3	PASS
442	50 - 200% of 198	65.1	PASS
443	15 - 24% of 442	20	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2g3001.D	Injection Date:	07/03/13
Instrument ID:	OSVGCMS2	Injection Time:	07:34
Sequence:	AA24805	Lab Sample ID:	AA24805-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	41.8	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0	PASS
127	10 - 80% of 198	57	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.54	PASS
275	10 - 60% of 198	27.6	PASS
365	1 - 200% of 198	4.7	PASS
441	0.1 - 24% of 442	13.7	PASS
442	50 - 200% of 198	61.8	PASS
443	15 - 24% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Lab File ID:	2g5001.D	Injection Date:	07/05/13
Instrument ID:	OSVGCMS2	Injection Time:	09:26
Sequence:	AA24824	Lab Sample ID:	AA24824-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
69	Base peak, 100% relative abundance	100	PASS
51	10 - 80% of 198	48.2	PASS
68	Less than 2% of 69	0	PASS
70	Less than 2% of 69	0	PASS
127	10 - 80% of 198	59.4	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.69	PASS
275	10 - 60% of 198	24.8	PASS
365	1 - 200% of 198	3.75	PASS
441	0.1 - 24% of 442	14.4	PASS
442	50 - 200% of 198	58.3	PASS
443	15 - 24% of 442	18.6	PASS

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS2	Calibration:	1303004
Lab File ID:	2ft002.D	Calibration Date:	03/02/13 13:00
Sequence:	AA24678	Injection Date:	06/25/13
Lab Sample ID:	AA24678-CCV1	Injection Time:	08:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Methylnaphthalene	A	0.100	0.10	1.072951	1.099184		2.4	20
Naphthalene	A	0.100	0.093	1.279152	1.190934		-6.9	20
Acenaphthylene	A	0.100	0.10	2.361672	2.374035		0.5	20
Acenaphthene	A	0.100	0.097	1.386542	1.343142		-3.1	20
Fluorene	A	0.100	0.092	1.849653	1.692541		-8.5	20
Phenanthrene	A	0.100	0.093	1.434696	1.330348		-7.3	20
Anthracene	A	0.100	0.097	1.42252	1.37949		-3.0	20
Fluoranthene	A	0.100	0.092	1.656485	1.520958		-8.2	20
Pyrene	A	0.100	0.091	1.654683	1.50838		-8.8	20
Benzo(a)anthracene	L	0.100	0.10	1.598353	1.418156		-0.1	20
Chrysene	A	0.100	0.098	1.440535	1.405537		-2.4	20
Benzo(b)fluoranthene	A	0.100	0.097	1.390995	1.353791		-2.7	20
Benzo(k)fluoranthene	A	0.100	0.10	1.439604	1.474863		2.4	20
Benzo(a)pyrene	A	0.100	0.11	1.256868	1.406013		11.9	20
Indeno(1,2,3-cd)pyrene	A	0.100	0.088	1.594738	1.402633		-12.0	20
Dibenzo(a,h)anthracene	A	0.100	0.091	1.305022	1.190589		-8.8	20
Benzo(g,h,i)perylene	A	0.100	0.087	1.420078	1.237069		-12.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS2	Calibration:	1303004
Lab File ID:	2g3002.D	Calibration Date:	03/02/13 13:00
Sequence:	AA24805	Injection Date:	07/03/13
Lab Sample ID:	AA24805-CCV1	Injection Time:	07:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Methylnaphthalene	A	0.100	0.087	1.072951	0.9320698		-13.1	20
Naphthalene	A	0.100	0.099	1.279152	1.264358		-1.2	20
Acenaphthylene	A	0.100	0.11	2.361672	2.520872		6.7	20
Acenaphthene	A	0.100	0.10	1.386542	1.448164		4.4	20
Fluorene	A	0.100	0.097	1.849653	1.78794		-3.3	20
Phenanthrene	A	0.100	0.098	1.434696	1.407174		-1.9	20
Anthracene	A	0.100	0.10	1.42252	1.476892		3.8	20
Fluoranthene	A	0.100	0.096	1.656485	1.589349		-4.1	20
Pyrene	A	0.100	0.096	1.654683	1.581863		-4.4	20
Benzo(a)anthracene	L	0.100	0.099	1.598353	1.402619		-1.2	20
Chrysene	A	0.100	0.098	1.440535	1.416952		-1.6	20
Benzo(b)fluoranthene	A	0.100	0.093	1.390995	1.295045		-6.9	20
Benzo(k)fluoranthene	A	0.100	0.10	1.439604	1.495107		3.9	20
Benzo(a)pyrene	A	0.100	0.11	1.256868	1.387607		10.4	20
Indeno(1,2,3-cd)pyrene	A	0.100	0.088	1.594738	1.407407		-11.7	20
Dibenzo(a,h)anthracene	A	0.100	0.090	1.305022	1.175877		-9.9	20
Benzo(g,h,i)perylene	A	0.100	0.086	1.420078	1.22824		-13.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCMS2	Calibration:	1303004
Lab File ID:	2g5002.D	Calibration Date:	03/02/13 13:00
Sequence:	AA24824	Injection Date:	07/05/13
Lab Sample ID:	AA24824-CCV1	Injection Time:	10:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Methylnaphthalene	A	0.100	0.080	1.072951	0.861212		-19.7	20
Naphthalene	A	0.100	0.092	1.279152	1.177643		-7.9	20
Acenaphthylene	A	0.100	0.097	2.361672	2.30008		-2.6	20
Acenaphthene	A	0.100	0.096	1.386542	1.338474		-3.5	20
Fluorene	A	0.100	0.090	1.849653	1.65765		-10.4	20
Phenanthrene	A	0.100	0.093	1.434696	1.339628		-6.6	20
Anthracene	A	0.100	0.097	1.42252	1.380202		-3.0	20
Fluoranthene	A	0.100	0.092	1.656485	1.525158		-7.9	20
Pyrene	A	0.100	0.092	1.654683	1.513954		-8.5	20
Benzo(a)anthracene	L	0.100	0.095	1.598353	1.34481		-5.3	20
Chrysene	A	0.100	0.096	1.440535	1.388955		-3.6	20
Benzo(b)fluoranthene	A	0.100	0.087	1.390995	1.206285		-13.3	20
Benzo(k)fluoranthene	A	0.100	0.11	1.439604	1.513347		5.1	20
Benzo(a)pyrene	A	0.100	0.11	1.256868	1.357952		8.0	20
Indeno(1,2,3-cd)pyrene	A	0.100	0.083	1.594738	1.329762		-16.6	20
Dibenzo(a,h)anthracene	A	0.100	0.086	1.305022	1.121817		-14.0	20
Benzo(g,h,i)perylene	A	0.100	0.081	1.420078	1.152076		-18.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23286		
Calibration:	1303004	Instrument:	OSVGCMS2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3B0510	8270D PAHSIM 0.01ug/ml	AA23286-CAL2	2c1003.D	03/01/13 14:29
A3B0511	8270D PAHSIM 0.02ug/ml	AA23286-CAL3	2c1004.D	03/01/13 14:53
A3B0512	8270D PAHSIM 0.05ug/ml	AA23286-CAL4	2c1005.D	03/01/13 15:17
A3B0513	8270D PAHSIM 0.1ug/ml	AA23286-CAL5	2c1006.D	03/01/13 15:39
A3B0514	8270D PAHSIM 0.2ug/ml	AA23286-CAL6	2c1007.D	03/01/13 16:01
A3B0515	8270D PAHSIM 0..4ug/ml	AA23286-CAL7	2c1008.D	03/01/13 16:22
A3B0509	8270D PAHSIM 0.00175ug/ml	AA23286-CAL1	2c1009.D	03/01/13 16:46
A3B0516	8270D PAHSIM (icv) 0.05ug/ml	AA23286-SCV1	2c1010.D	03/01/13 17:07

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1303004

Instrument: OSVGCMS2

Matrix: Water

Calibration Date: 03/02/13 13:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Methylnaphthalene	0.00175	1.038101	0.01	1.356177	0.02	1.138255	0.05	0.996489	0.1	0.9891197	0.2	0.9195639
2-Methylnaphthalene	0.00175	1.038101	0.01	1.356177	0.02	1.138255	0.05	0.996489	0.1	0.9891197	0.2	0.9195639
Naphthalene	0.00175	1.190886	0.01	1.516007	0.02	1.30649	0.05	1.283669	0.1	1.303011	0.2	1.2478
Naphthalene	0.00175	1.190886	0.01	1.516007	0.02	1.30649	0.05	1.283669	0.1	1.303011	0.2	1.2478
Acenaphthylene	0.00175	2.315521	0.01	2.623246	0.02	2.409171	0.05	2.469808	0.1	2.497241	0.2	2.349525
Acenaphthylene	0.00175	2.315521	0.01	2.623246	0.02	2.409171	0.05	2.469808	0.1	2.497241	0.2	2.349525
Acenaphthene	0.00175	1.333708	0.01	1.503818	0.02	1.390435	0.05	1.433746	0.1	1.440885	0.2	1.394857
Acenaphthene	0.00175	1.333708	0.01	1.503818	0.02	1.390435	0.05	1.433746	0.1	1.440885	0.2	1.394857
Fluorene	0.00175	2.111368	0.01	2.034986	0.02	1.877995	0.05	1.859065	0.1	1.843864	0.2	1.72579
Fluorene	0.00175	2.111368	0.01	2.034986	0.02	1.877995	0.05	1.859065	0.1	1.843864	0.2	1.72579
Phenanthrene	0.00175	1.499761	0.01	1.603901	0.02	1.471787	0.05	1.457336	0.1	1.457405	0.2	1.370954
Phenanthrene	0.00175	1.499761	0.01	1.603901	0.02	1.471787	0.05	1.457336	0.1	1.457405	0.2	1.370954
Anthracene	0.00175	1.371788	0.01	1.582719	0.02	1.45219	0.05	1.462676	0.1	1.490067	0.2	1.394893
Anthracene	0.00175	1.371788	0.01	1.582719	0.02	1.45219	0.05	1.462676	0.1	1.490067	0.2	1.394893
Fluoranthene	0.00175	1.692096	0.01	1.953329	0.02	1.755731	0.05	1.704273	0.1	1.672005	0.2	1.51817
Fluoranthene	0.00175	1.692096	0.01	1.953329	0.02	1.755731	0.05	1.704273	0.1	1.672005	0.2	1.51817
Pyrene	0.00175	1.714548	0.01	1.933924	0.02	1.727694	0.05	1.685629	0.1	1.668632	0.2	1.526303
Pyrene	0.00175	1.714548	0.01	1.933924	0.02	1.727694	0.05	1.685629	0.1	1.668632	0.2	1.526303
Benzo(a)anthracene	0.00175	2.268881	0.01	1.635625	0.02	1.422743	0.05	1.445262	0.1	1.399291	0.2	1.418313
Benzo(a)anthracene	0.00175	2.268881	0.01	1.635625	0.02	1.422743	0.05	1.445262	0.1	1.399291	0.2	1.418313
Chrysene	0.00175	1.657651	0.01	1.539101	0.02	1.433704	0.05	1.432397	0.1	1.382375	0.2	1.398433
Chrysene	0.00175	1.657651	0.01	1.539101	0.02	1.433704	0.05	1.432397	0.1	1.382375	0.2	1.398433
Benzo(b)fluoranthene	0.00175	1.396464	0.01	1.451153	0.02	1.401003	0.05	1.437307	0.1	1.400767	0.2	1.408471
Benzo(b)fluoranthene	0.00175	1.396464	0.01	1.451153	0.02	1.401003	0.05	1.437307	0.1	1.400767	0.2	1.408471
Benzo(k)fluoranthene	0.00175	1.649335	0.01	1.629678	0.02	1.407987	0.05	1.40432	0.1	1.363257	0.2	1.366612
Benzo(k)fluoranthene	0.00175	1.649335	0.01	1.629678	0.02	1.407987	0.05	1.40432	0.1	1.363257	0.2	1.366612
Benzo(a)pyrene	0.00175	1.176823	0.01	1.288647	0.02	1.218903	0.05	1.297765	0.1	1.288796	0.2	1.326826
Benzo(a)pyrene	0.00175	1.176823	0.01	1.288647	0.02	1.218903	0.05	1.297765	0.1	1.288796	0.2	1.326826
Indeno(1,2,3-cd)pyrene	0.00175	1.933005	0.01	1.557282	0.02	1.505464	0.05	1.56742	0.1	1.535608	0.2	1.600032
Indeno(1,2,3-cd)pyrene	0.00175	1.933005	0.01	1.557282	0.02	1.505464	0.05	1.56742	0.1	1.535608	0.2	1.600032
Dibenzo(a,h)anthracene	0.00175	1.588549	0.01	1.282486	0.02	1.223361	0.05	1.261604	0.1	1.248866	0.2	1.319885

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1303004	Instrument:	OSVGCMS2
Matrix:	Soil	Calibration Date:	03/02/13 13:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzo(a,h)anthracene	0.00175	1.588549	0.01	1.282486	0.02	1.223361	0.05	1.261604	0.1	1.248866	0.2	1.319885
Benzo(g,h,i)perylene	0.00175	1.778202	0.01	1.417419	0.02	1.348104	0.05	1.384621	0.1	1.34795	0.2	1.402357
Benzo(g,h,i)perylene	0.00175	1.778202	0.01	1.417419	0.02	1.348104	0.05	1.384621	0.1	1.34795	0.2	1.402357
p-Terphenyl	0.00175	1.406962	0.01	1.528209	0.02	1.365219	0.05	1.319609	0.1	1.315602	0.2	1.224729
p-Terphenyl	0.00175	1.406962	0.01	1.528209	0.02	1.365219	0.05	1.319609	0.1	1.315602	0.2	1.224729

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1303004

Instrument: OSVGCMS2

Matrix: Water

Calibration Date: 03/02/13 13:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Methylnaphthalene	0.4	~~0.8009879~~										
2-Methylnaphthalene	0.4	~~0.8009879~~										
Naphthalene	0.4	1.106203										
Naphthalene	0.4	1.106203										
Acenaphthylene	0.4	1.867189										
Acenaphthylene	0.4	1.867189										
Acenaphthene	0.4	1.208345										
Acenaphthene	0.4	1.208345										
Fluorene	0.4	1.494506										
Fluorene	0.4	1.494506										
Phenanthrene	0.4	1.181728										
Phenanthrene	0.4	1.181728										
Anthracene	0.4	1.203304										
Anthracene	0.4	1.203304										
Fluoranthene	0.4	1.299788										
Fluoranthene	0.4	1.299788										
Pyrene	0.4	1.326048										
Pyrene	0.4	1.326048										
Benzo(a)anthracene	0.4	~~1.265239~~										
Benzo(a)anthracene	0.4	~~1.265239~~										
Chrysene	0.4	1.240084										
Chrysene	0.4	1.240084										
Benzo(b)fluoranthene	0.4	1.241802										
Benzo(b)fluoranthene	0.4	1.241802										
Benzo(k)fluoranthene	0.4	1.25604										
Benzo(k)fluoranthene	0.4	1.25604										
Benzo(a)pyrene	0.4	1.200315										
Benzo(a)pyrene	0.4	1.200315										
Indeno(1,2,3-cd)pyrene	0.4	1.464355										
Indeno(1,2,3-cd)pyrene	0.4	1.464355										
Dibenzo(a,h)anthracene	0.4	1.210405										

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1303004	Instrument:	OSVGCMS2
Matrix:	Soil	Calibration Date:	03/02/13 13:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzo(a,h)anthracene	0.4	1.210405										
Benzo(g,h,i)perylene	0.4	1.261891										
Benzo(g,h,i)perylene	0.4	1.261891										
p-Terphenyl	0.4	1.078203										
p-Terphenyl	0.4	1.078203										

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration: 1303004
Instrument: OSVGCMS2
Matrix: Water
Calibration Date: 03/02/13 13:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2-Methylnaphthalene	1.072951	14.56429	6.381333	6.025844E-02			15	
2-Methylnaphthalene	1.072951	14.56429	6.381333	6.025844E-02			15	
Naphthalene	1.279152	9.894978	5.681143	0.2295784			15	
Naphthalene	1.279152	9.894978	5.681143	0.2295784			15	
Acenaphthylene	2.361672	10.19078	7.303714	6.039626E-02			15	
Acenaphthylene	2.361672	10.19078	7.303714	6.039626E-02			15	
Acenaphthene	1.386542	6.814461	7.48	4.839779E-02			CCC (30)	
Acenaphthene	1.386542	6.814461	7.48	4.839779E-02			CCC (30)	
Fluorene	1.849653	10.93024	8.002286	4.717354E-02			15	
Fluorene	1.849653	10.93024	8.002286	4.717354E-02			15	
Phenanthrene	1.434696	9.146705	8.967429	1.338312E-02			15	
Phenanthrene	1.434696	9.146705	8.967429	1.338312E-02			15	
Anthracene	1.42252	8.323284	9.020429	1.190608E-02			15	
Anthracene	1.42252	8.323284	9.020429	1.190608E-02			15	
Fluoranthene	1.656485	12.27637	10.20443	7.525328E-03			CCC (30)	
Fluoranthene	1.656485	12.27637	10.20443	7.525328E-03			CCC (30)	
Pyrene	1.654683	11.37402	10.47186	3.562721E-02			15	
Pyrene	1.654683	11.37402	10.47186	3.562721E-02			15	
Benzo(a)anthracene	1.598353	21.25925	12.08533	1.883695E-02	0.9998675		0.995	
Benzo(a)anthracene	1.598353	21.25925	12.08533	1.883695E-02	0.9998675		0.995	
Chrysene	1.440535	9.064521	12.14186	2.346101E-02			15	
Chrysene	1.440535	9.064521	12.14186	2.346101E-02			15	
Benzo(b)fluoranthene	1.390995	4.959383	13.81571	2.440767E-02			15	
Benzo(b)fluoranthene	1.390995	4.959383	13.81571	2.440767E-02			15	
Benzo(k)fluoranthene	1.439604	10.11453	13.857	0.02501			15	
Benzo(k)fluoranthene	1.439604	10.11453	13.857	0.02501			15	
Benzo(a)pyrene	1.256868	4.552366	14.308	0.0200412			CCC (30)	
Benzo(a)pyrene	1.256868	4.552366	14.308	0.0200412			CCC (30)	
Indeno(1,2,3-cd)pyrene	1.594738	9.750345	15.98314	0.0293233			15	
Indeno(1,2,3-cd)pyrene	1.594738	9.750345	15.98314	0.0293233			15	
Dibenzo(a,h)anthracene	1.305022	9.979966	15.99814	1.186959E-02			15	
Dibenzo(a,h)anthracene	1.305022	9.979966	15.99814	1.186959E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1303004	Instrument:	OSVGCMS2
Matrix:	Soil	Calibration Date:	03/02/13 13:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzo(g,h,i)perylene	1.420078	11.686	16.443	3.142552E-02			15	
Benzo(g,h,i)perylene	1.420078	11.686	16.443	3.142552E-02			15	
p-Terphenyl	1.31979	10.73863	10.64086	1.035984E-02			15	
p-Terphenyl	1.31979	10.73863	10.64086	1.035984E-02			15	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1303004

Laboratory ID: AA23286-SCV1

Sequence: AA23286

Standard ID: A3B0516

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Benzo(a)pyrene	0.0500	0.052	5.0	20.00
Pyrene	0.0500	0.053	6.4	20.00
Benzo(g,h,i)perylene	0.0500	0.051	2.4	20.00
Indeno(1,2,3-cd)pyrene	0.0500	0.051	2.8	20.00
Benzo(b)fluoranthene	0.0500	0.054	7.4	20.00
Fluoranthene	0.0500	0.054	7.2	20.00
Benzo(k)fluoranthene	0.0500	0.052	3.6	20.00
Anthracene	0.0500	0.053	5.2	20.00
Chrysene	0.0500	0.053	5.2	20.00
p-Terphenyl	0.0500	0.053	6.4	20.00
Dibenzo(a,h)anthracene	0.0500	0.050	1.0	20.00
Benzo(a)anthracene	0.0500	0.052	3.6	20.00
Acenaphthene	0.0500	0.051	2.4	20.00
Phenanthrene	0.0500	0.052	4.4	20.00
Fluorene	0.0500	0.051	2.4	20.00
Naphthalene	0.0500	0.049	-1.2	20.00
2-Methylnaphthalene	0.0500	0.051	1.8	20.00
Acenaphthylene	0.0500	0.053	5.2	20.00

* Values outside of QC limits

ANALYSIS SEQUENCE

AA24678

Instrument: OSVGCMS2

Calibration ID: 1303004

Printed: 6/25/2013 08:12:32

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24678-TUN1	QC		1		A3D0331	A2J0183		
AA24678-CCV1	QC		2		A3F0025	A3C0331		
3F21019-BLK1	QC		3			A3C0331		
3F21019-BS1	QC		4			A3C0331		
3F21019-BSD1	QC		5			A3C0331		
A303448-05	8270D PAH SIM DOD	A	6			A3C0331	CH2M Hill, Inc. (CH025)	
A303448-08	8270D PAH SIM DOD	A	7			A3C0331	CH2M Hill, Inc. (CH025)	

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/21/2013 2:04:06PM

Analysis
8270D PAH SIM DOD [EPA 8270D]

3F21019

ENCO Orlando

Prepared using: EPA 3510C_MS

Surrogate Solution
___ A3E0205 PAHSIM WATER DOD Surrogate

Spiking Solution
A3C0371 PAHSIM WATER DOD Spike Mix

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F21019-BLK1		Blank		QC	–	<0.5	500	20			500		
3F21019-BS1		LCS		QC	–	<0.5	500	20	A3C0371	500	500		
3F21019-BSD1		LCS Dup		QC	–	<0.5	500	20	A3C0371	500	500		
A303448-05 1	D	TR-5TH-SB03-GW-0613 A[C11]	25-Jun-13	8270D PAH SIM DOD	–	<0.5	500	20			500		emulsion
A303448-08 2	D	TR-5TH-SB04-GW-0613 A[C11]	25-Jun-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303479-02 3	D	TR-EB01-061813 B]C11]	10-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303479-04 4	D	TR-5TH-SB05-GW-0613 B[C11]	10-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303479-05 5	D	TR-5TH-SB05D-GW-0613 B[C11]	10-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		emulsion
A303479-09 6	D	TR-5TH-SB06-GW-0613 B[C11]	10-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303479-12 7	D	HPDTA-BG-SB05-GW-0613 B[C11]	10-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303499-08 8	D	TR-2ND-SB07-GW-0613 A[C11]	11-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		emulsion
A303499-13 9	D	TR-2ND-SB06-GW-0613 A[C11]	11-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303499-16 10	D	TR-2ND-SB04-GW-0613 A[C11]	11-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303557-02 11	D	TR-2ND-MW01-0613 A[C11]	12-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303557-03 12	D	TR-2ND-MW02-0613 A[C11]	12-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303557-04 13	D	TR-5TH-MW01-0613 A[C11]	12-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		
A303557-05 14	D	TR-5TH-MW02-0613 A[C11]	12-Jul-13	8270D PAH SIM DOD	–	<0.5	500	20			500		

PREPARATION BENCH SHEET

Printed: 6/21/2013 2:04:06PM

3F21019

ENCO Orlando

Prepared using: EPA 3510C_MS

Surrogate Solution
___ A3E0205 PAHSIM WATER DOD Surrogate

Spiking Solution
A3C0371 PAHSIM WATER DOD Spike Mix

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

PAH SIM DOD Water

Start Date/Time 6/21/13 11:20

StopDate/Time 6/21/13 17:00

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3F0037	Solvent Dichloromethane	Solvent Lot # DI492

Equipment Used

Sonicator _____ Tuned per manufacturer instructions? [ ] Yes [ ] No [X] NA

Turbovap OTVAP-1 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP-2 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP-3 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Balance _____ Daily calibration complete? [ ] Yes [ ] No [X] NA

Other _____

MAC 6/21/13
Samples Prepared By Date

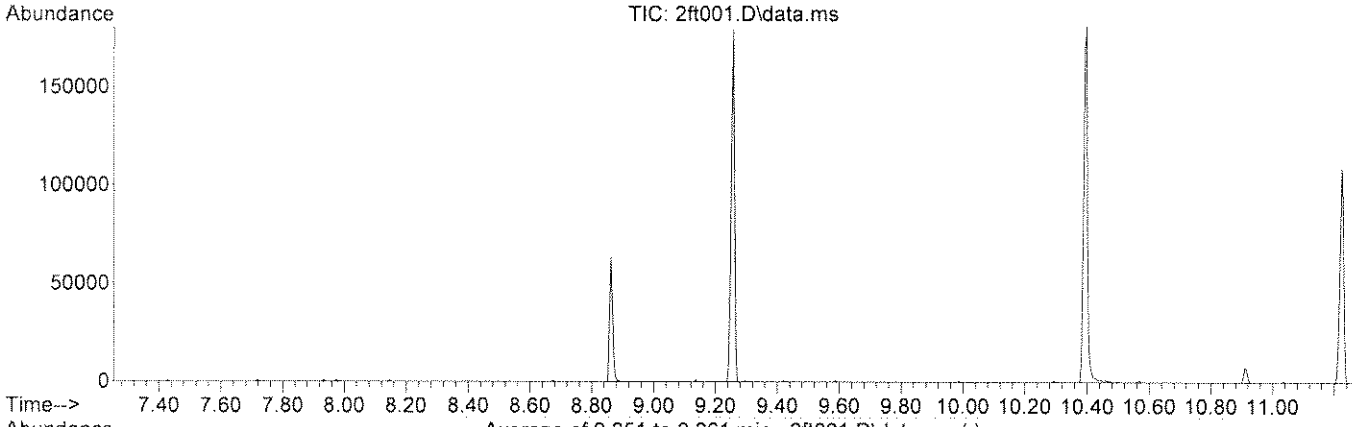
Samples Prepared By Date

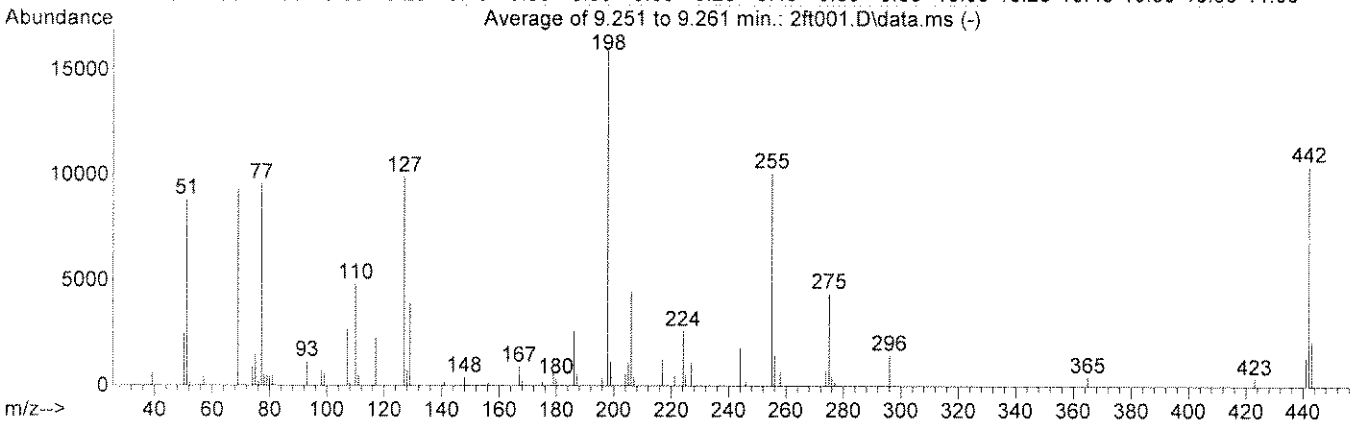
Samples Prepared By Date

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft001.D
Acq On : 25 Jun 2013 8:25
Operator : jfi
Sample : aa24678-tun1/aa24679-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Mon Jun 24 16:55:04 2013





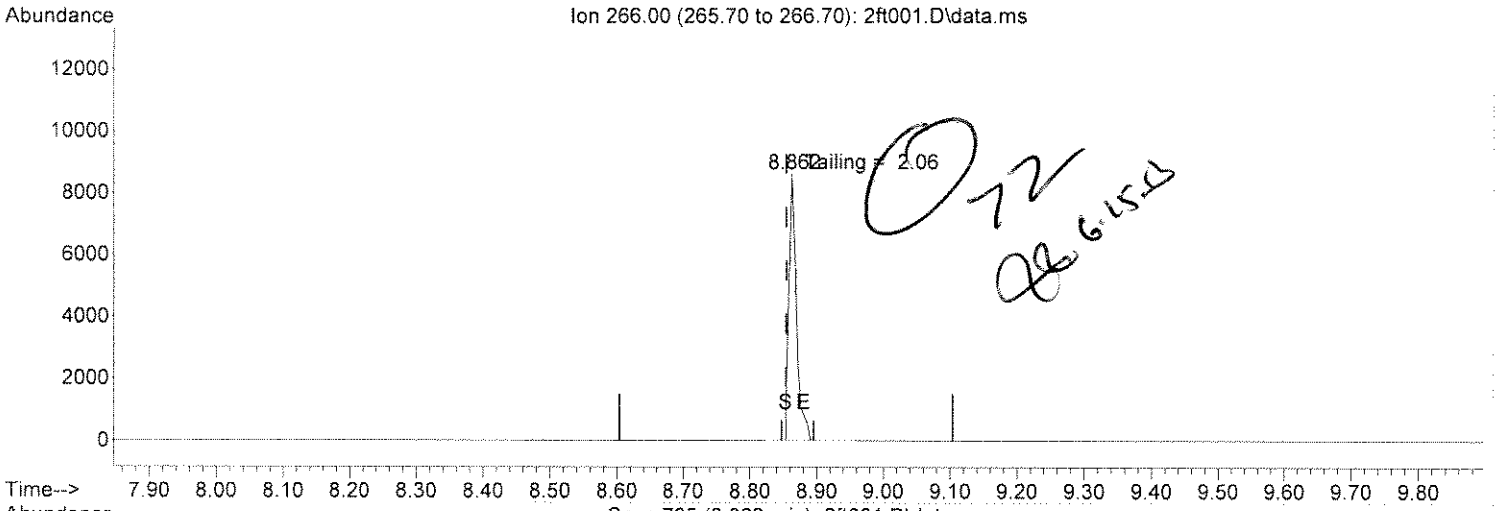
AutoFind: Scans 866, 867, 868; Background Corrected with Scan 861

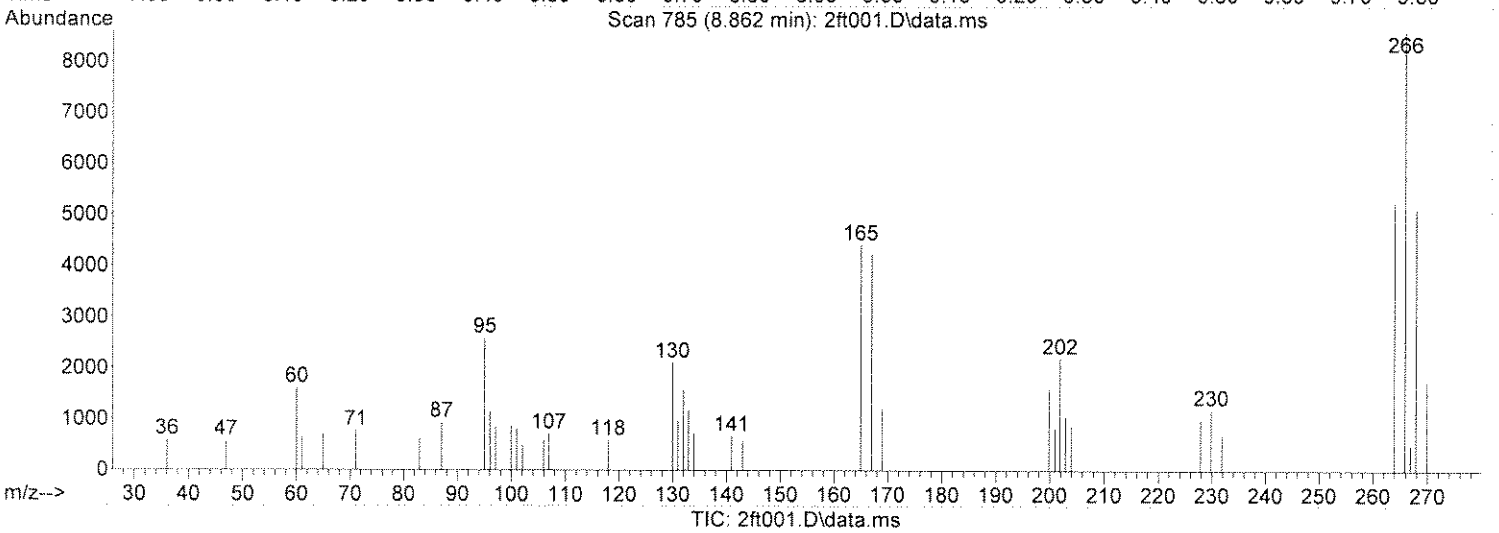
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	54.9	8827	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.9	9310	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	61.6	9906	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	16069	PASS
199	198	5	9	7.3	1166	PASS
275	198	10	30	27.3	4394	PASS
365	198	1	100	2.8	448	PASS
441	443	0.01	100	66.3	1387	PASS
442	198	50	100	65.1	10466	PASS
443	442	17	23	20.0	2092	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft001.D
Acq On : 25 Jun 2013 8:25
Operator : jfi
Sample : aa24678-tun1/aa24679-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 08:41:16 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Mon Jun 24 16:55:04 2013
Response via : Initial Calibration





(1) Pentachlorophenol

8.862min (+0.008) 6.30 ug/ml

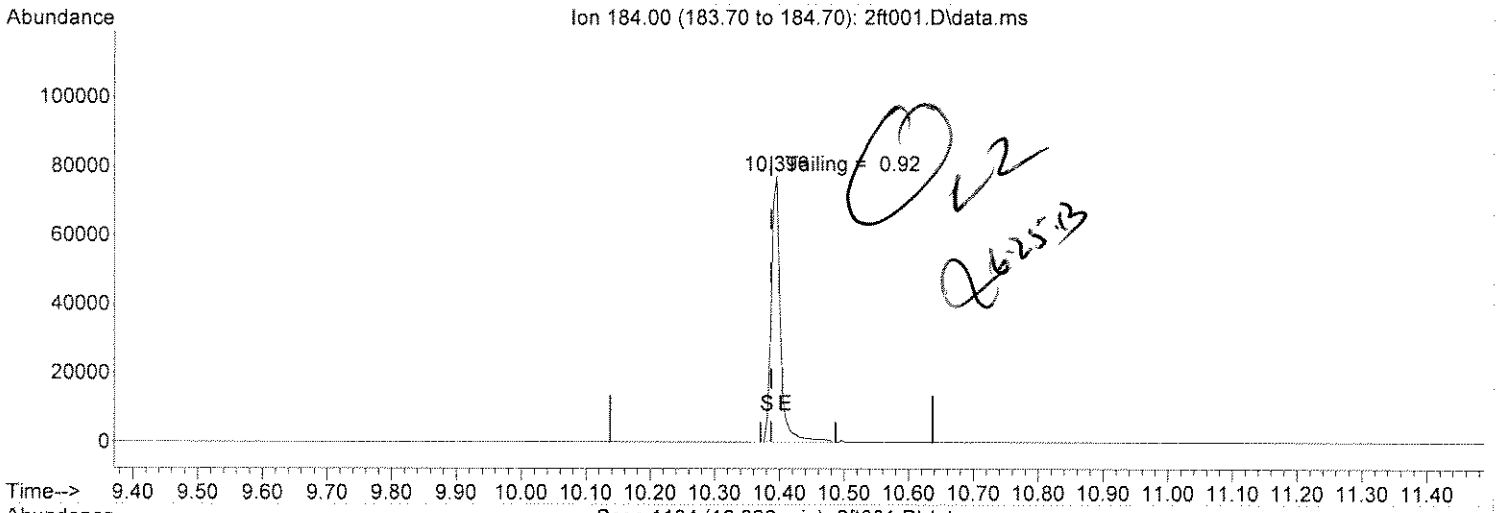
response 6876

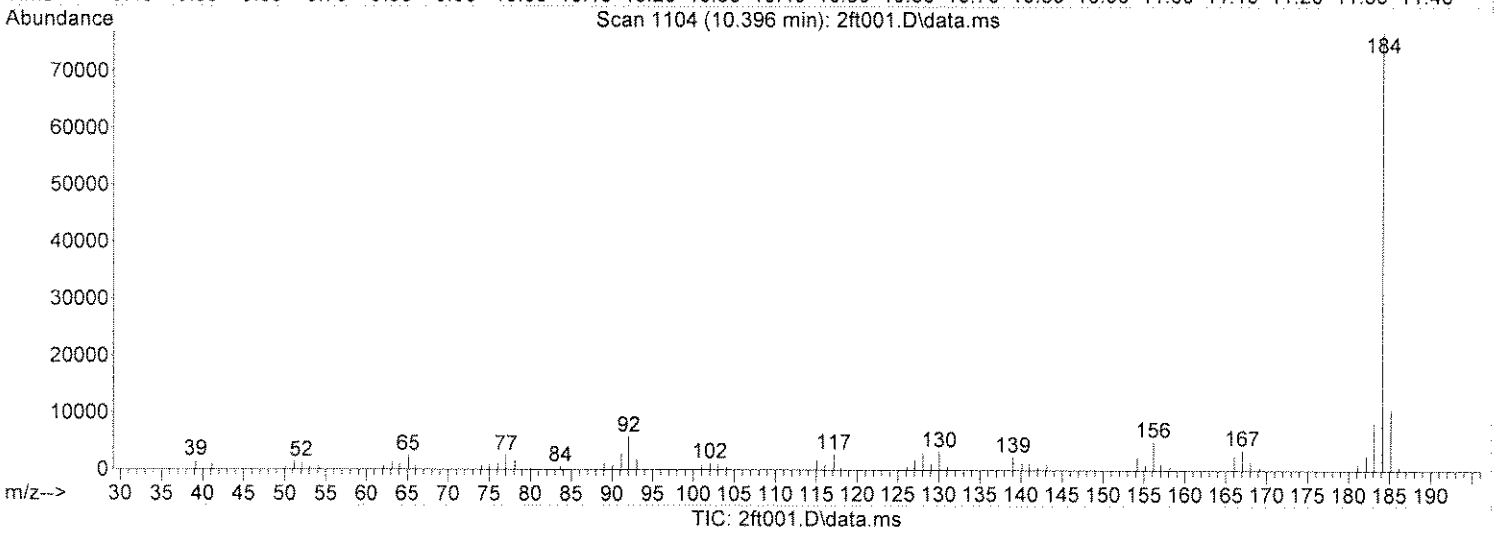
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft001.D
Acq On : 25 Jun 2013 8:25
Operator : jfi
Sample : aa24678-tun1/aa24679-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 08:41:16 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Mon Jun 24 16:55:04 2013
Response via : Initial Calibration





(3) Benzidine

10.396min (+0.008) 9.75 ug/ml

response 75713

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft001.D
Acq On : 25 Jun 2013 8:25
Operator : jfi
Sample : aa24678-tun1/aa24679-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 08:41:16 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Mon Jun 24 16:55:04 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	8.862	266	6876	6.3000	ug/ml	100
2) DFTPP	9.256	198	16904	8.4447	ug/ml	100
3) Benzidine	10.396	184	75713	9.7474	ug/ml	100
4) DDE	0.000		0	N.D.		
5) DDD	10.910	TIC	5863	7.4927	#	64
6) DDT	11.223	TIC	91639	4.2016	#	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

5863

5863 + 91639

(97502)

x100 = 6.0%

<20% DDT

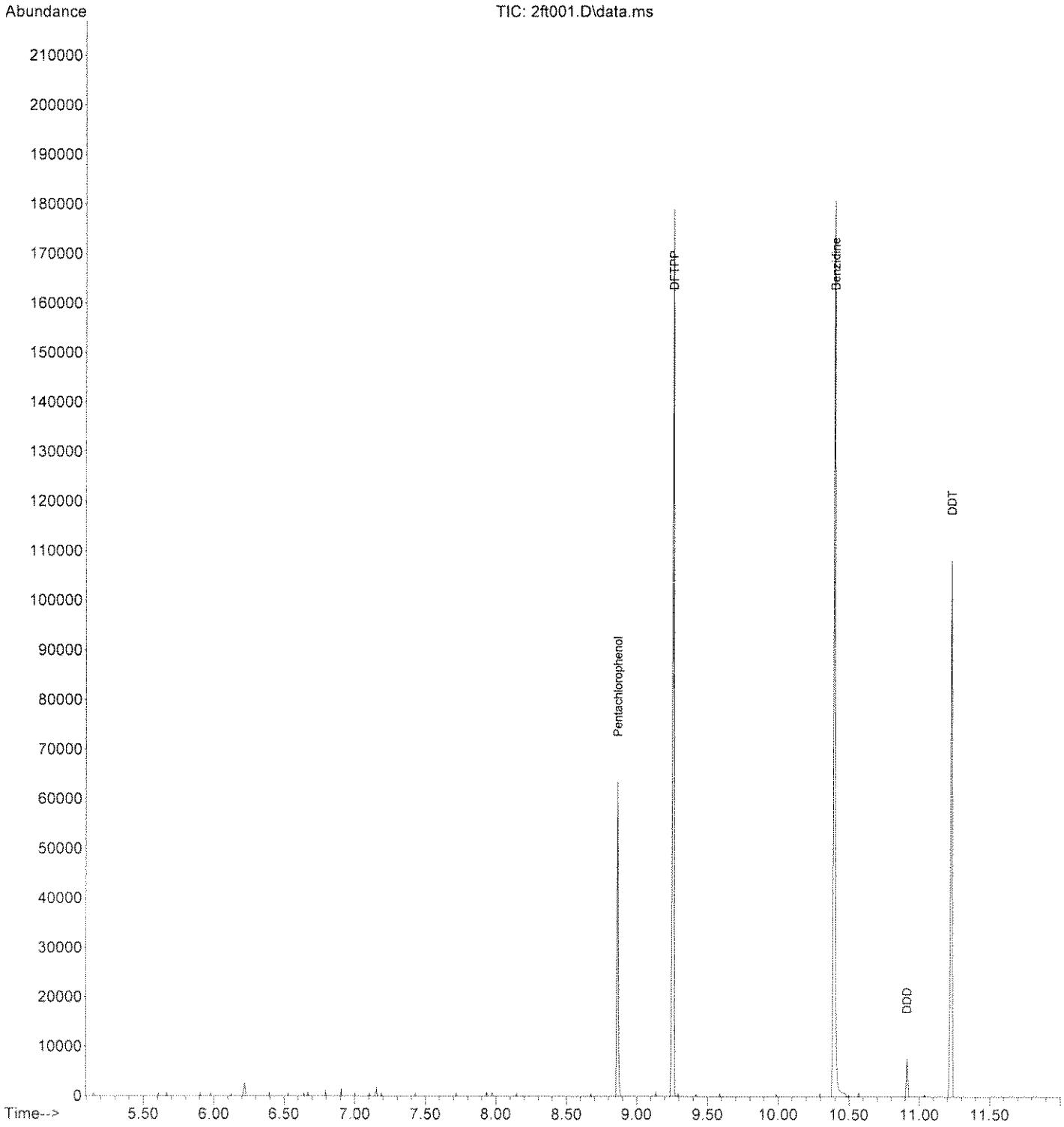
DDD

6-25-13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft001.D
Acq On : 25 Jun 2013 8:25
Operator : jfi
Sample : aa24678-tun1/aa24679-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 08:41:16 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Mon Jun 24 16:55:04 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft002.D
Acq On : 25 Jun 2013 8:43
Operator : jfi
Sample : aa24678-ccv1/aa24679-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 09:01:12 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration

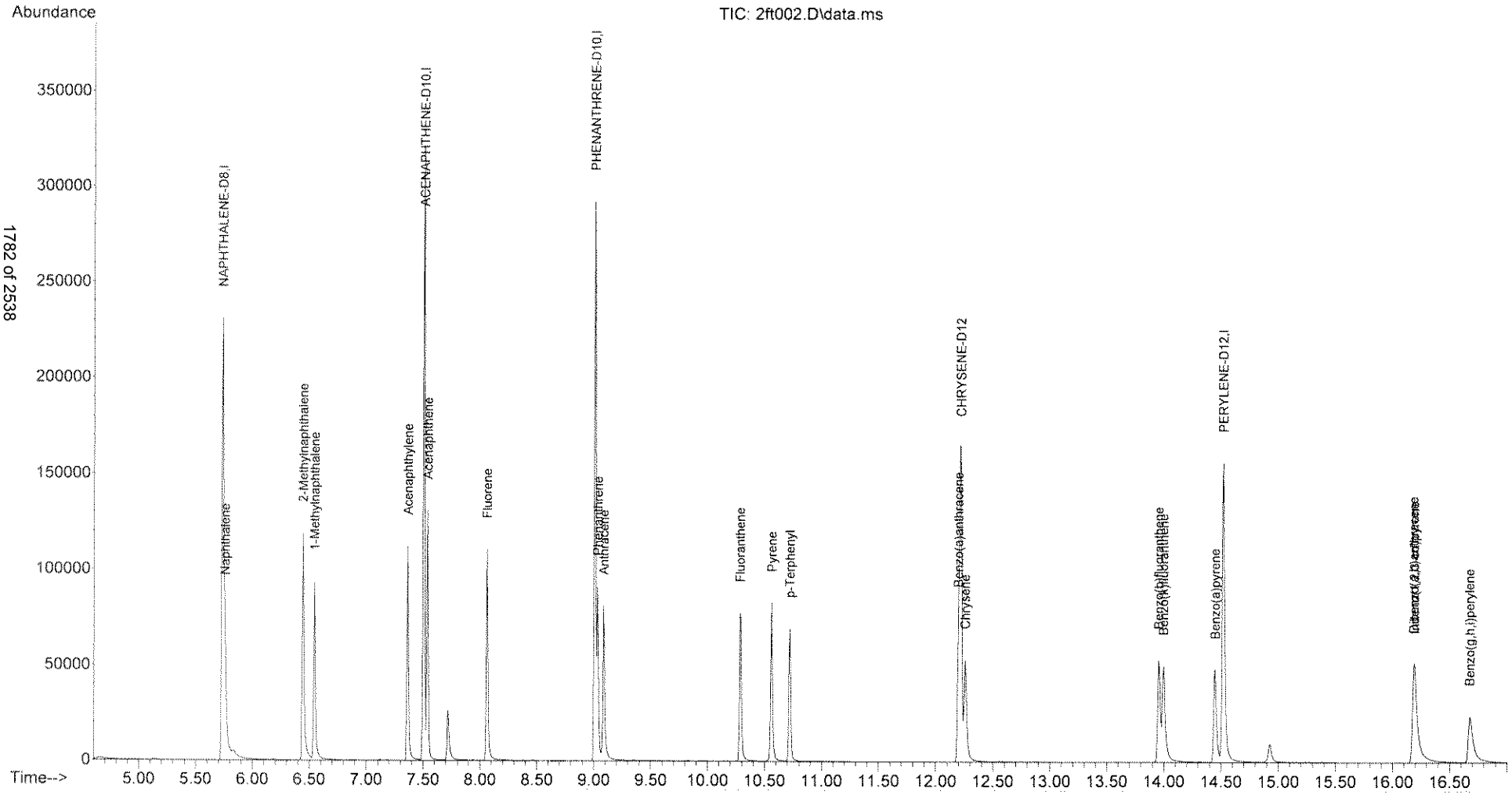
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.736	136	275095	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.506	164	153435	0.50	ug/mL	0.01
9) PHENANTHRENE-D10	9.006	188	243271	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.218	240	219514	0.50	ug/mL	0.02
18) PERYLENE-D12	14.521	264	201161	0.50	ug/mL	0.02
Target Compounds						Qvalue
2) Naphthalene	5.756	128	65524	0.0931	ug/mL	99
3) 2-Methylnaphthalene	6.444	142	60476	0.1024	ug/mL	96
4) 1-Methylnaphthalene	6.545	142	45112	0.0839	ug/mL	97
6) Acenaphthylene	7.364	152	72852	0.1005	ug/mL	100
7) Acenaphthene	7.536	154	41217	0.0969	ug/mL	99
8) Fluorene	8.059	166	51939	0.0915	ug/mL	100
10) Phenanthrene	9.033	178	64727	0.0927	ug/mL	100
11) Anthracene	9.086	178	67118	0.0970	ug/mL	99
12) Fluoranthene	10.283	202	74001	0.0918	ug/mL	91
13) Pyrene	10.561	202	73389	0.0912	ug/mL	89
14) p-Terphenyl	10.719	230	58057	0.0904	ug/mL	99
16) Benzo(a)anthracene	12.196	228	62261	0.0999	ug/mL	100
17) Chrysene	12.256	228	61707	0.0976	ug/mL	99
19) Benzo(b)fluoranthene	13.954	252	54466	0.0973	ug/mL	96
20) Benzo(k)fluoranthene	13.997	252	59337	0.1024	ug/mL	97
21) Benzo(a)pyrene	14.448	252	56567	0.1119	ug/mL	96
22) Indeno(1,2,3-cd)pyrene	16.193	276	56431	0.0880	ug/mL	90
23) Dibenzo(a,h)anthracene	16.187	278	47900	0.0912	ug/mL	95
24) Benzo(g,h,i)perylene	16.675	276	49770	0.0871	ug/mL	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft002.D
Acq On : 25 Jun 2013 8:43
Operator : jfi
Sample : aa24678-ccv1/aa24679-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

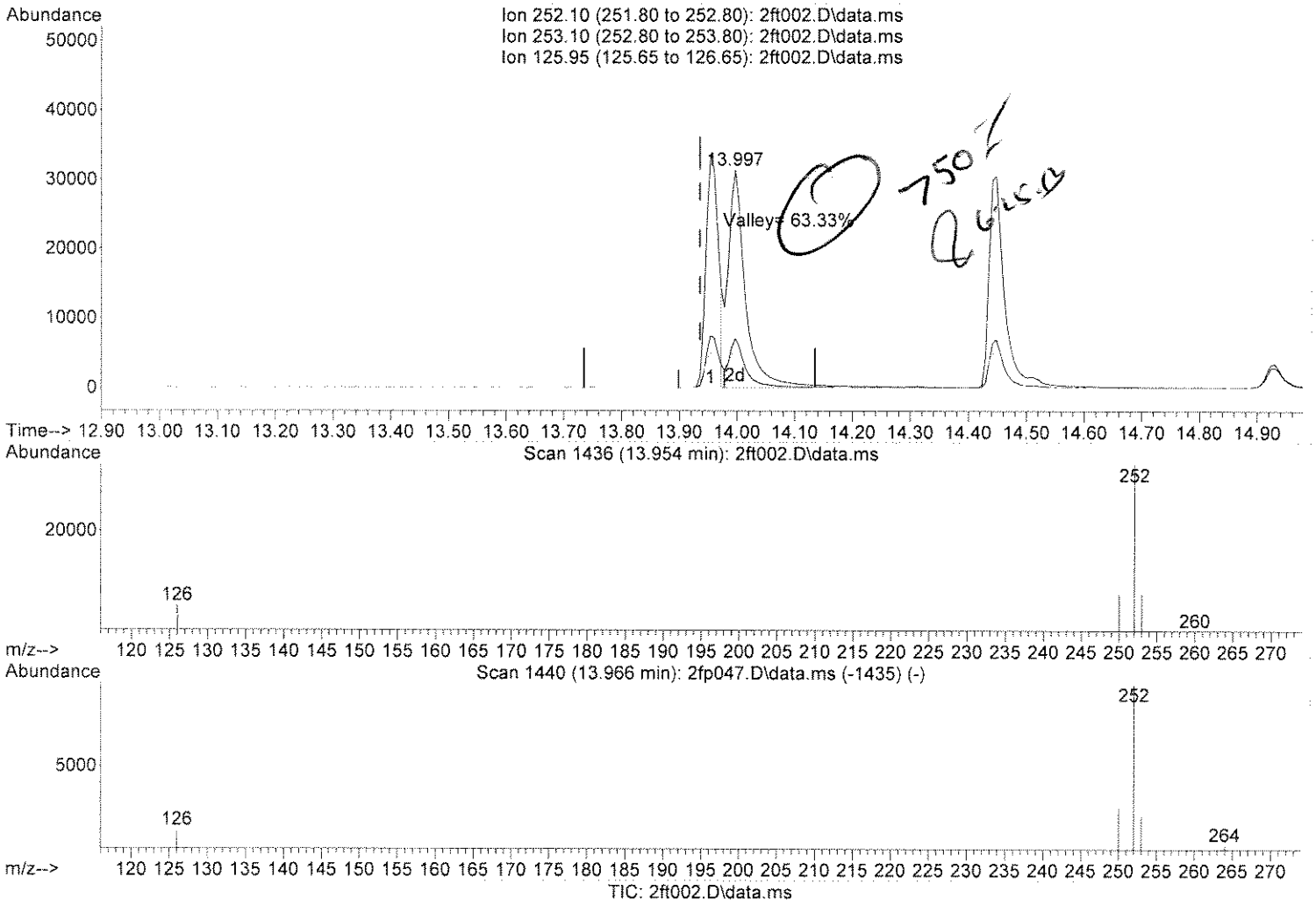
Quant Time: Jun 25 09:01:12 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft002.D
Acq On : 25 Jun 2013 8:43
Operator : jfi
Sample : aa24678-ccv1/aa24679-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 09:01:12 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration



(19) Benzo(b)fluoranthene

13.954min (+0.019) 0.10 ug/mL

response 54466

Ion	Exp%	Act%
252.10	100	100
253.10	21.50	22.10
125.95	17.10	13.81
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft003.D
Acq On : 25 Jun 2013 9:05
Operator : jfi
Sample : 3f21019-blk1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 09:23:18 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration

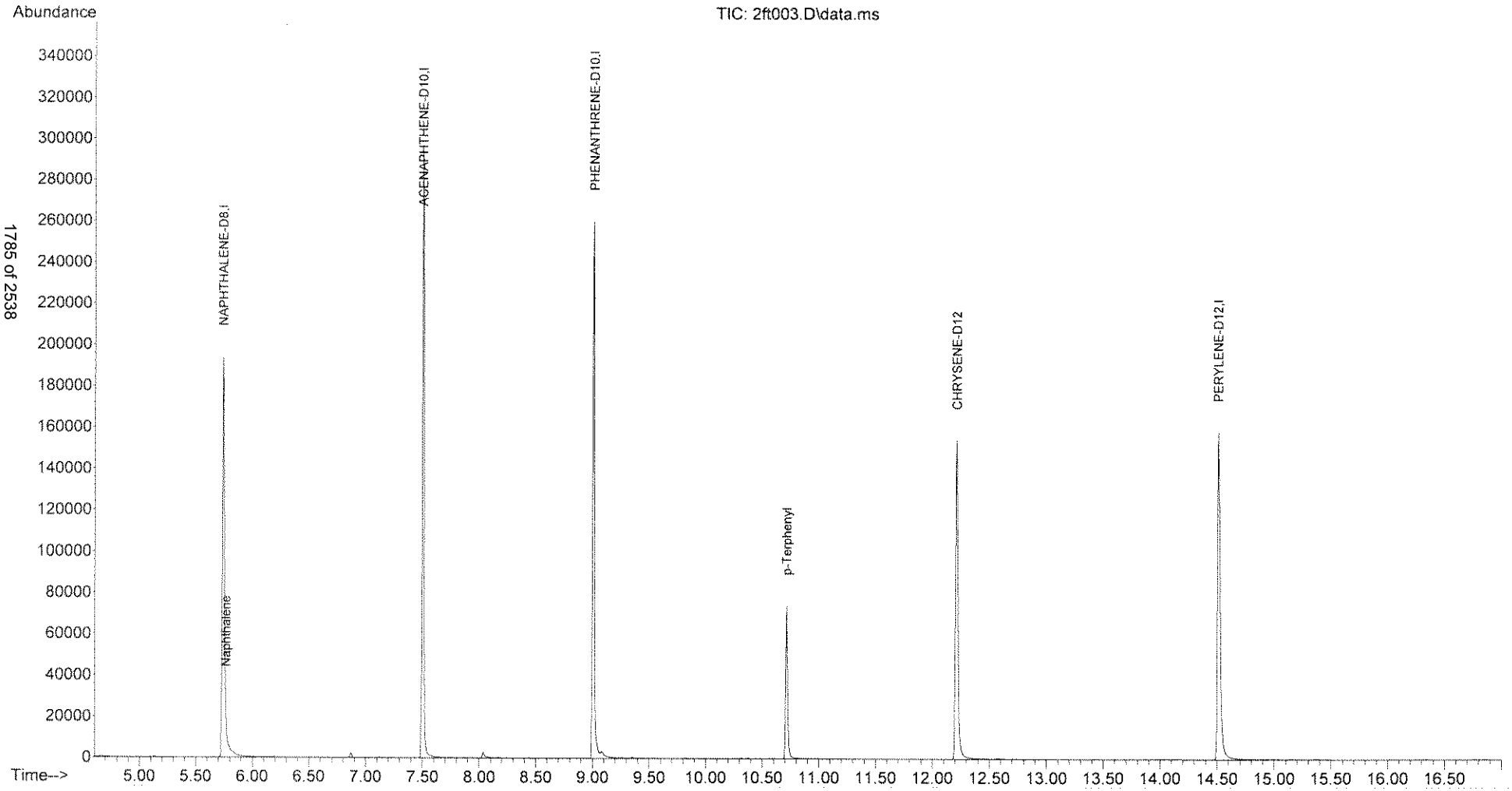
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.735	136	255046	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.499	164	153846	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	9.008	188	242250	0.50 ug/mL	0.00
15) CHRYSENE-D12	12.213	240	225683	0.50 ug/mL	0.02
18) PERYLENE-D12	14.514	264	207059	0.50 ug/mL	0.01
Target Compounds					Qvalue
2) Naphthalene	5.762	128	267	0.0004 ug/mL	91
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.715	230	62391	0.0976 ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft003.D
Acq On : 25 Jun 2013 9:05
Operator : jfi
Sample : 3f21019-blk1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 09:23:18 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft003.D
Acq On : 25 Jun 2013 9:05
Operator : jfi
Sample : 3f21019-blk1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 09:23:18 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration

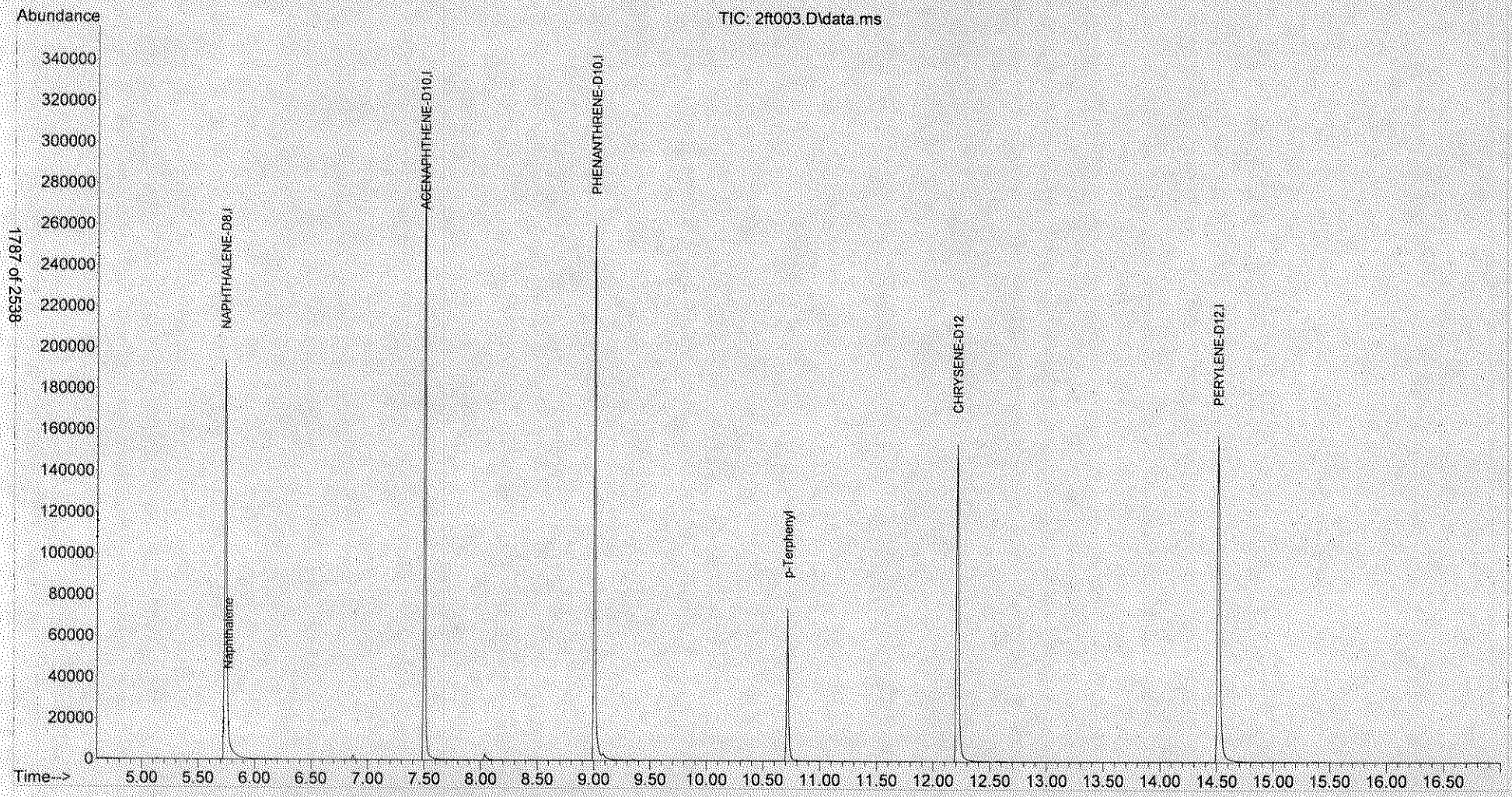
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.735	136	255046	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.499	164	153846	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	9.008	188	242250	0.50 ug/mL	0.00
15) CHRYSENE-D12	12.213	240	225683	0.50 ug/mL	0.02
18) PERYLENE-D12	14.514	264	207059	0.50 ug/mL	0.01
Target Compounds					Qvalue
2) Naphthalene	5.762	128	267	0.0004 ug/mL	91
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.715	230	62391	0.0976 ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft003.D
Acq On : 25 Jun 2013 9:05
Operator : jfi
Sample : 3f21019-blk1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 09:23:18 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft005.D
Acq On : 25 Jun 2013 10:10
Operator : jfi
Sample : 3f21019-bs1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 10:27:46 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration

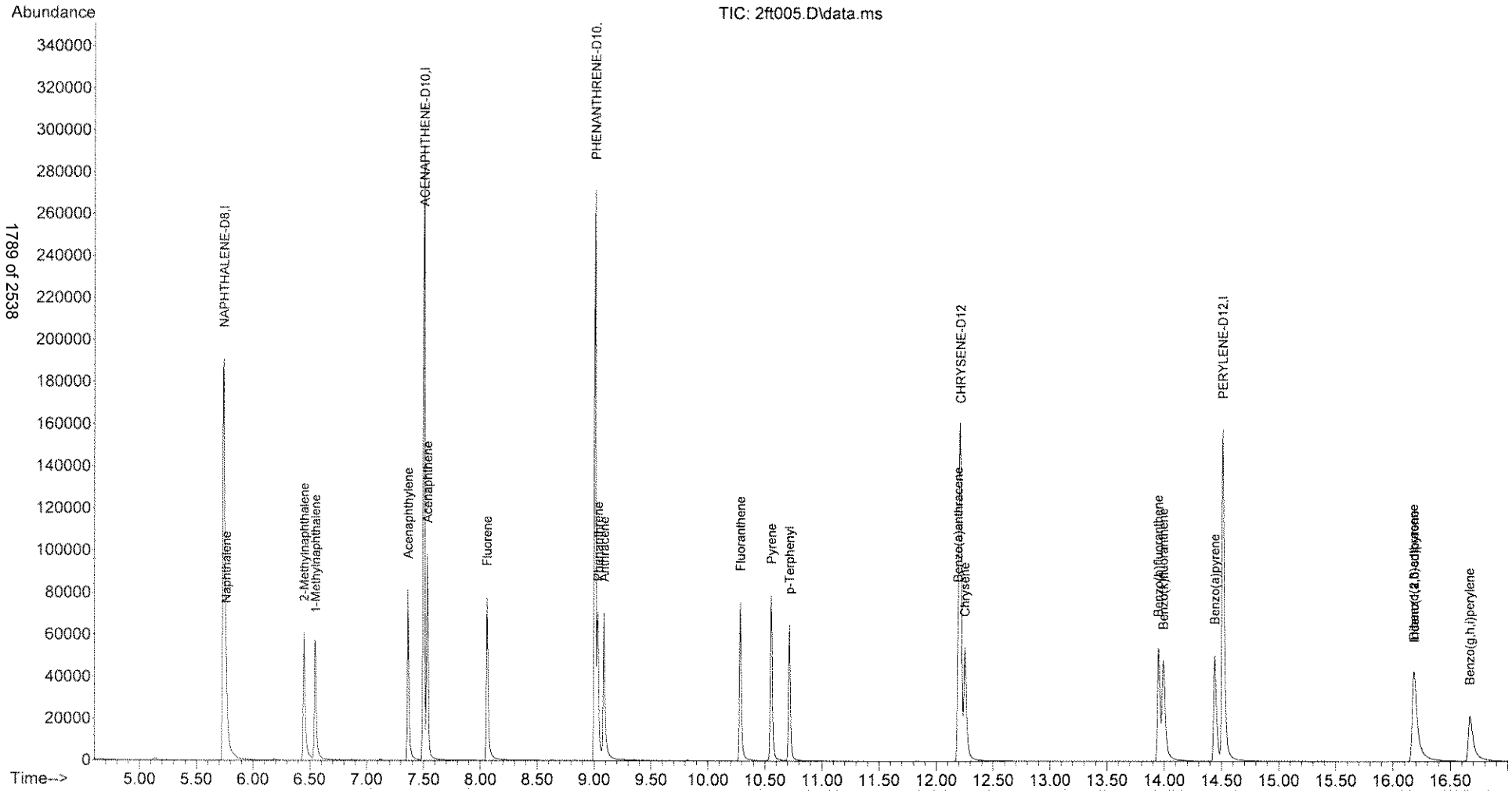
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.741	136	241604	0.50	ug/mL	0.03
5) ACENAPHTHENE-D10	7.505	164	141518	0.50	ug/mL	0.01
9) PHENANTHRENE-D10	9.007	188	227982	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.213	240	215027	0.50	ug/mL	0.02
18) PERYLENE-D12	14.513	264	198936	0.50	ug/mL	0.01
Target Compounds						Qvalue
2) Naphthalene	5.762	128	49055	0.0794	ug/mL	99
3) 2-Methylnaphthalene	6.449	142	34586	0.0667	ug/mL	96
4) 1-Methylnaphthalene	6.550	142	33400	0.0707	ug/mL	96
6) Acenaphthylene	7.363	152	58150	0.0870	ug/mL	100
7) Acenaphthene	7.535	154	33108	0.0844	ug/mL	100
8) Fluorene	8.059	166	41876	0.0800	ug/mL	100
10) Phenanthrene	9.034	178	56562	0.0865	ug/mL	99
11) Anthracene	9.087	178	60565	0.0934	ug/mL	99
12) Fluoranthene	10.284	202	69067	0.0914	ug/mL	91
13) Pyrene	10.555	202	72024	0.0955	ug/mL	89
14) p-Terphenyl	10.714	230	55312	0.0919	ug/mL	99
16) Benzo(a)anthracene	12.191	228	56670	0.0927	ug/mL	100
17) Chrysene	12.251	228	63144	0.1019	ug/mL	99
19) Benzo(b)fluoranthene	13.947	252	53935	0.0975	ug/mL	97
20) Benzo(k)fluoranthene	13.989	252	60751	0.1061	ug/mL	96
21) Benzo(a)pyrene	14.440	252	57819	0.1156	ug/mL	96
22) Indeno(1,2,3-cd)pyrene	16.186	276	52673	0.0830	ug/mL	89
23) Dibenzo(a,h)anthracene	16.180	278	40789	0.0785	ug/mL	95
24) Benzo(g,h,i)perylene	16.668	276	46111	0.0816	ug/mL	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft005.D
Acq On : 25 Jun 2013 10:10
Operator : jfi
Sample : 3f21019-bs1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 10:27:46 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft006.D
Acq On : 25 Jun 2013 11:15
Operator : jfi
Sample : 3f21019-bsd1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 11:34:13 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration

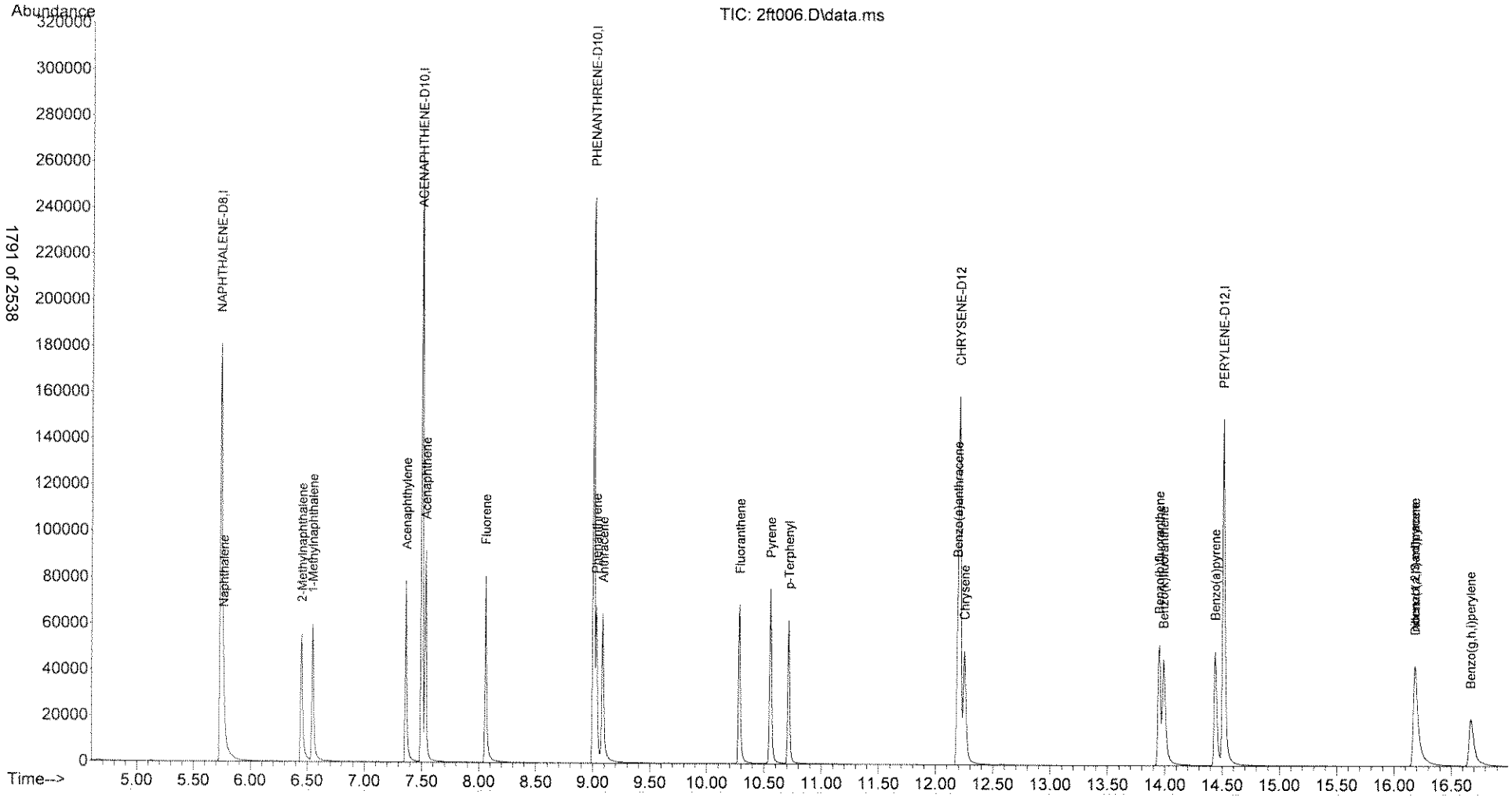
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.735	136	226225	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.498	164	133293	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	9.007	188	218379	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.207	240	204925	0.50	ug/mL	0.01
18) PERYLENE-D12	14.510	264	191391	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.762	128	46683	0.0807	ug/mL	99
3) 2-Methylnaphthalene	6.449	142	33417	0.0688	ug/mL	96
4) 1-Methylnaphthalene	6.544	142	31955	0.0722	ug/mL	96
6) Acenaphthylene	7.363	152	56093	0.0891	ug/mL	100
7) Acenaphthene	7.535	154	31959	0.0865	ug/mL	99
8) Fluorene	8.059	166	40612	0.0824	ug/mL	100
10) Phenanthrene	9.027	178	54052	0.0863	ug/mL	100
11) Anthracene	9.087	178	58662	0.0944	ug/mL	100
12) Fluoranthene	10.284	202	66667	0.0921	ug/mL	91
13) Pyrene	10.555	202	69489	0.0962	ug/mL	89
14) p-Terphenyl	10.714	230	53656	0.0931	ug/mL	100
16) Benzo(a)anthracene	12.191	228	54970	0.0944	ug/mL	99
17) Chrysene	12.251	228	60897	0.1031	ug/mL	99
19) Benzo(b)fluoranthene	13.949	252	51760	0.0972	ug/mL	97
20) Benzo(k)fluoranthene	13.986	252	60576	0.1099	ug/mL	96
21) Benzo(a)pyrene	14.437	252	55891	0.1162	ug/mL	96
22) Indeno(1,2,3-cd)pyrene	16.179	276	51381	0.0842	ug/mL	89
23) Dibenzo(a,h)anthracene	16.179	278	40274	0.0806	ug/mL	95
24) Benzo(g,h,i)perylene	16.668	276	44934	0.0826	ug/mL	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062513\
Data File : 2ft006.D
Acq On : 25 Jun 2013 11:15
Operator : jfi
Sample : 3f21019-bsd1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 11:34:13 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Mon Jun 17 09:13:27 2013
Response via : Initial Calibration



ANALYSIS SEQUENCE

AA24805

Instrument: OSVGCMS2

Calibration ID: 1303004

Printed: 7/3/2013 07:26:56

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24805-TUN1	QC		1		A3D0331	A2J0183		
AA24805-CCV1	QC		2		A3F0025	A3C0331		
W 3F18005-BLK1	QC		3			A3C0331		
W 3F18005-BS1	QC		4			A3C0331		
W 3F18005-BSD1	QC		5			A3C0331		
3F24006-BLK1	QC		6			A3C0331		
3F24006-BS1	QC		7			A3C0331		
3F24006-BSD1	QC		8			A3C0331		
A303554-01	8270D PAH SIM DOD	A	9			A3C0331	ENCO Orlando - QA	
W A303380-08	8270D PAH SIM DOD	A	10			A3C0331	CH2M Hill, Inc. (CH025)	
W A303380-09	8270D PAH SIM DOD	A	11			A3C0331	CH2M Hill, Inc. (CH025)	
A303448-09	8270D PAH SIM DOD	A	12			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-03	8270D PAH SIM DOD	A	13			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-06	8270D PAH SIM DOD	A	14			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-07	8270D PAH SIM DOD	A	15			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-08	8270D PAH SIM DOD	A	16			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-06	8270D PAH SIM DOD	E	17			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-07	8270D PAH SIM DOD	E	18			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-09	8270D PAH SIM DOD	D	19			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-10	8270D PAH SIM DOD	D	20			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-11	8270D PAH SIM DOD	E	21			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-12	8270D PAH SIM DOD	E	22			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-14	8270D PAH SIM DOD	E	23			A3C0331	CH2M Hill, Inc. (CH025)	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

AA24805

Instrument: OSVGCMS2

Calibration ID: 1303004

Printed: 7/3/2013 07:26:56

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
A303499-15	8270D PAH SIM DOD	E	24			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-17	8270D PAH SIM DOD	E	25			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-18	8270D PAH SIM DOD	E	26			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-19	8270D PAH SIM DOD	E	27			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-20	8270D PAH SIM DOD	E	28			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-21	8270D PAH SIM DOD	D	29			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-22	8270D PAH SIM DOD	D	30			A3C0331	CH2M Hill, Inc. (CH025)	

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/24/2013 8:14:23AM

Analysis
8270D PAH SIM DOD [EPA 8270D]

3F24006
ENCO Orlando

Prepared using: EPA 3550C_MS

Surrogate Solution
___ A3F0289 PAHSIM SOIL Surrogate

Spiking Solution
A3F0259 PAHSIM SOIL Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F24006-BLK1		Blank		QC	—	—	15.0	300			1000		
3F24006-BS1		LCS		QC	—	—	15.0	300	A3F0259	1000	1000		
3F24006-BSD1		LCS Dup		QC	—	—	15.0	300	A3F0259	1000	1000		
A303448-09	1 D	TR-5TH-SB04-04-06-0613 A[C11]	09-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303479-03	2 D	TR-5TH-SB05-0.5-01-0613 A[C11]	10-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303479-06	3 D	TR-5TH-SB05-02-04-0613 A[C11]	10-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303479-07	4 D	TR-5TH-SB06-0.5-01-0613 A[C11]	10-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303479-08	5 D	TR-5TH-SB06-04-06-0613 A[C11]	10-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-06	6 D	TR-2ND-SB07-0.5-01-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-07	7 D	TR-2ND-SB07-04-06-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-09	8 D	TR-2ND-SB06-0.5-01-0613 D[ALS E	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-10	9 D	TR-2ND-SB06-05-07-0613 D[ALS E	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-11	10 D	TR-2ND-SB06D-0.5-01-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-12	11 D	TR-2ND-SB06D-05-07-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-14	12 D	TR-2ND-SB04-0.5-01-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-15	13 D	TR-2ND-SB04-04-06-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-17	14 D	TR-2ND-SB05-0.5-01-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-18	15 D	TR-2ND-SB05-03-05-0613 E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		

PREPARATION BENCH SHEET

Printed: 6/24/2013 8:14:23AM

3F24006

ENCO Orlando

Prepared using: EPA 3550C_MS

Surrogate Solution
___ A3F0289 PAHSIM SOIL Surrogate

Spiking Solution
A3F0259 PAHSIM SOIL Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location		Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
A303499-19	16 D	TR-2ND-SB03-0.5-01-0613	E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-20	17 D	TR-2ND-SB03-04-06-0613	E[C11]	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-21	18 D	TR-2ND-SB02-0.5-1-0613	D[ALS E	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303499-22	19 D	TR-2ND-SB02-06-08-0613	D[ALS E	11-Jul-13	8270D PAH SIM DOD	—	—	15.0	300			1000		
A303554-01	20	8oz. jar (lot # 91011-18)	A[C25]	28-Jun-13	8270D PAH SIM DOD	—	—	15.0	300			1000		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

PAH SIM soil

Start Date/Time 06-24-13 9:30

StopDate/Time 06-24-13 13:50

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3F0037	Solvent Dichloromethane	Solvent Lot # DI492

Equipment Used

Sonicator DSON 2,3 — Tuned per manufacturer instructions? [X] Yes [ ] No [ ] NA

Turbovap OTVAP1 — Temperature: 40°C — N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP2 — Temperature: 40°C — N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP3 — Temperature: 40°C — N2 pressure (initial): 3 psi (final): 12 psi

Balance DEXTBAL7 — Daily calibration complete? [X] Yes [ ] No [ ] NA

Other

CVP 06-24-13
Samples Prepared By Date

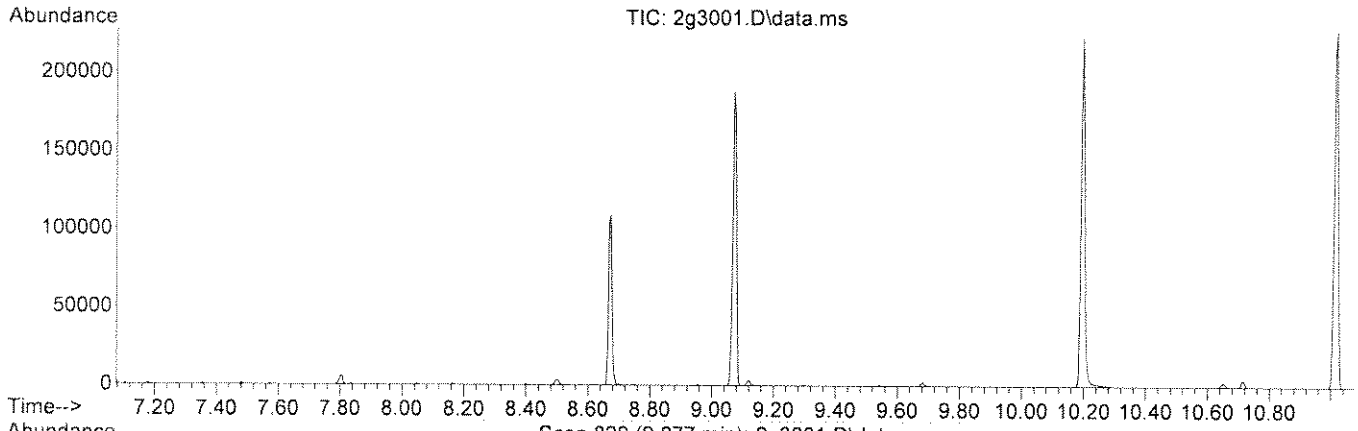
Samples Prepared By Date

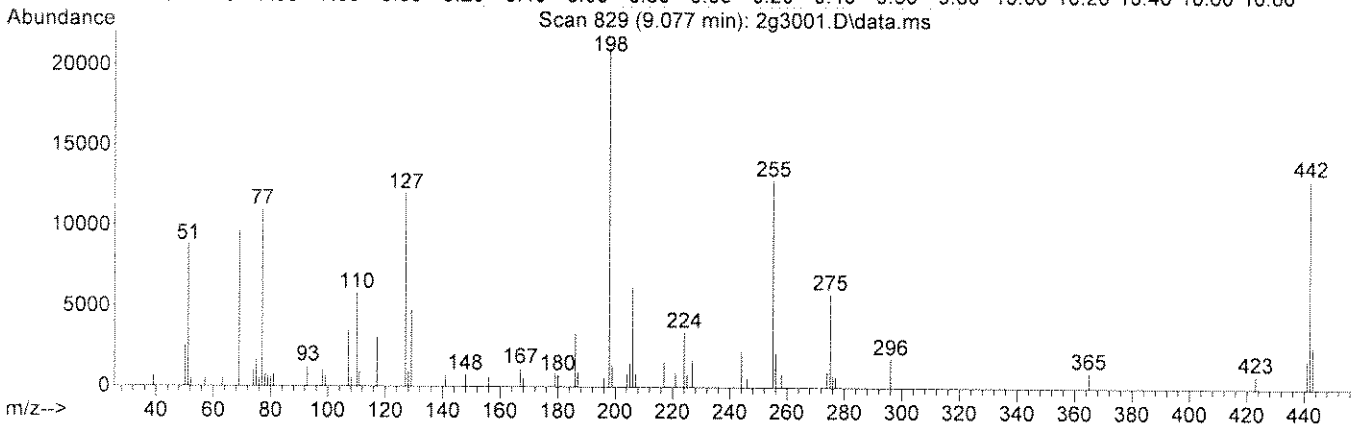
Samples Prepared By Date

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3001.D
Acq On : 3 Jul 2013 7:34
Operator : jfi
Sample : aa24805-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Sat Jun 29 19:16:30 2013





Spectrum Information: Scan 829

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.8	8795	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.2	9716	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	57.0	11993	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	21040	PASS
199	198	5	9	6.5	1375	PASS
275	198	10	30	27.6	5803	PASS
365	198	1	100	4.7	989	PASS
441	443	0.01	100	67.6	1786	PASS
442	198	50	100	61.8	13007	PASS
443	442	17	23	20.3	2643	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3001.D
Acq On : 3 Jul 2013 7:34
Operator : jfi
Sample : aa24805-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 07:49:34 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration

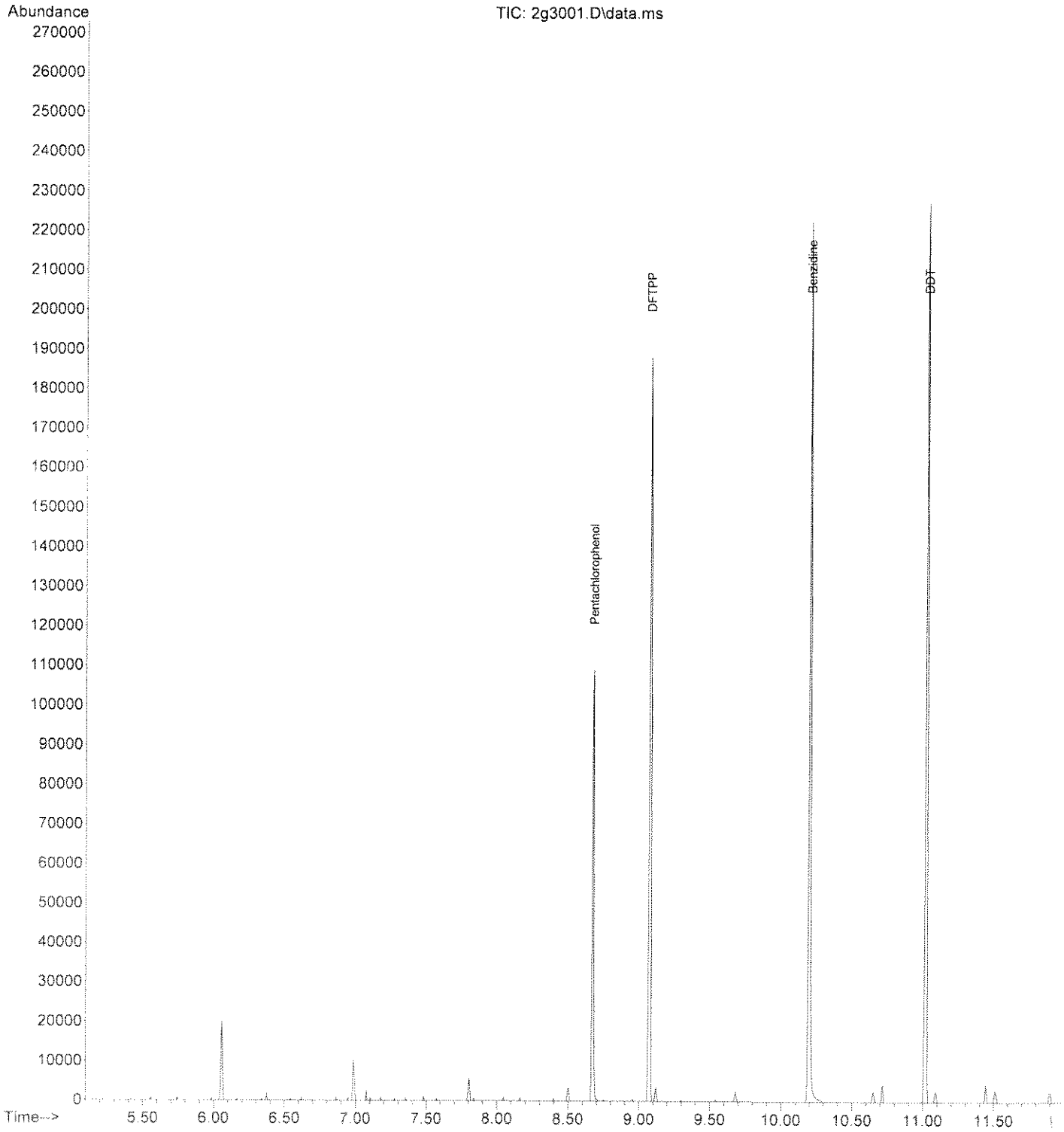
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	8.673	266	10858	9.9485	ug/ml	100
2) DFTPP	9.072	198	19287	9.6352	ug/ml	100
3) Benzidine	10.197	184	83443	10.7425	ug/ml	100
4) DDE	0.000		0	N.D.		
5) DDD	0.000		0	N.D.		
6) DDT	11.019	TIC	192457	8.8241	#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3001.D
Acq On : 3 Jul 2013 7:34
Operator : jfi
Sample : aa24805-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

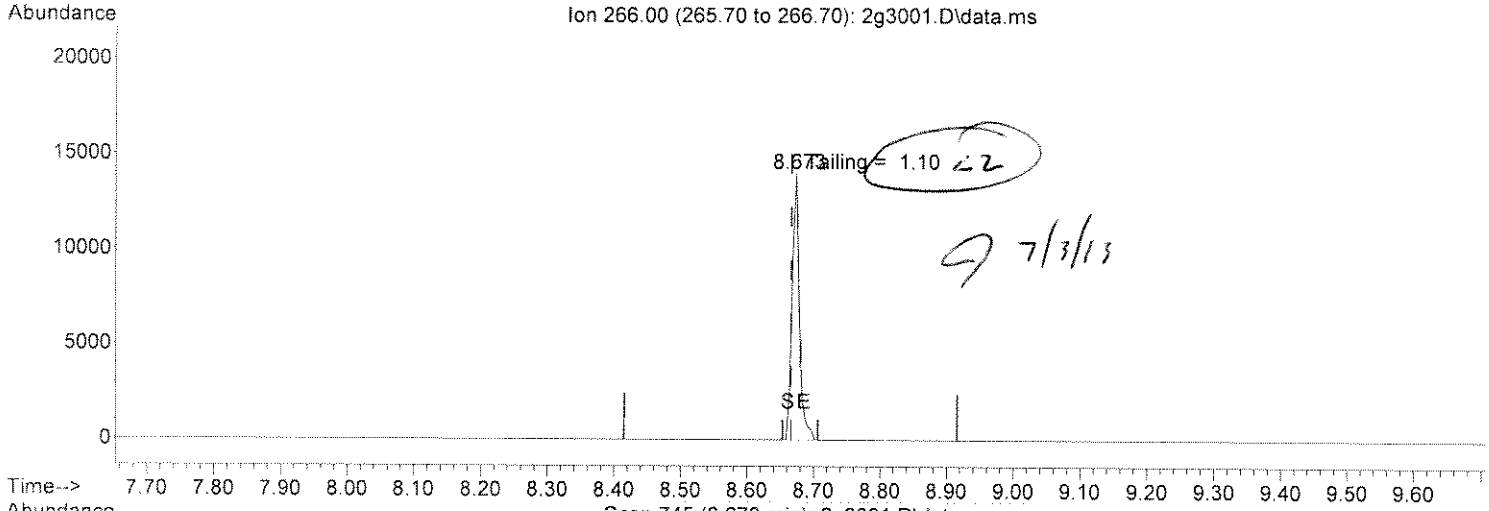
Quant Time: Jul 03 07:49:34 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3001.D
Acq On : 3 Jul 2013 7:34
Operator : jfi
Sample : aa24805-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 07:49:34 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration



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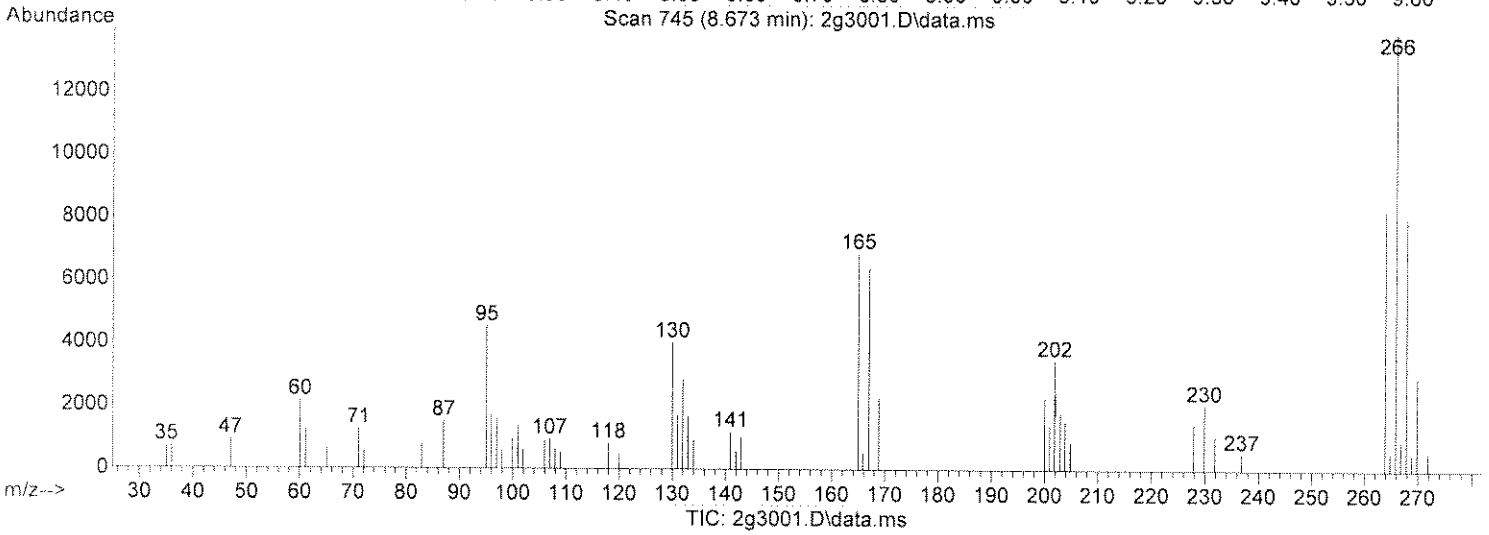


(1) Pentachlorophenol

8.673min (+0.007) 9.95 ug/ml

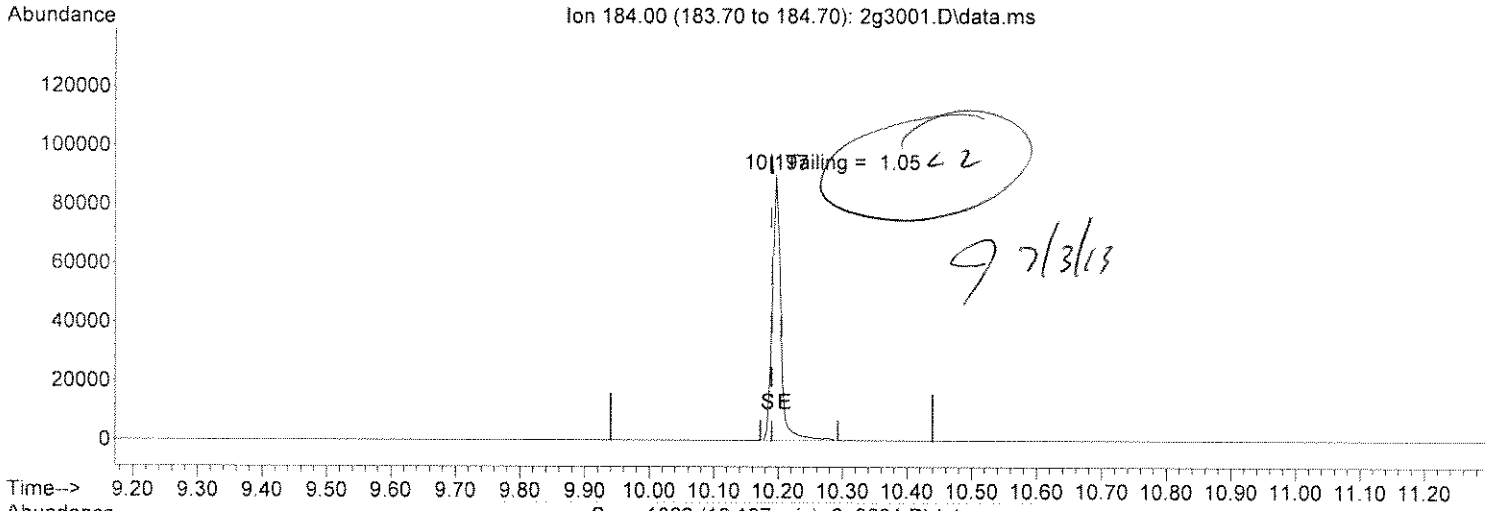
response 10858

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

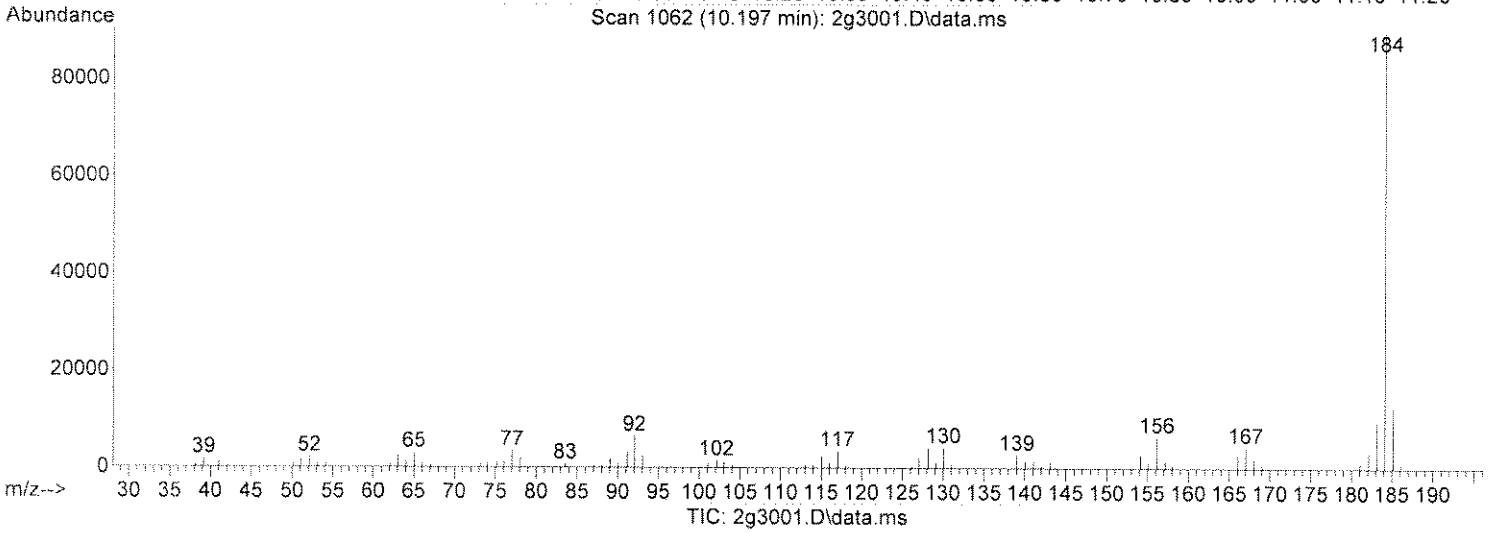
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3001.D
Acq On : 3 Jul 2013 7:34
Operator : jfi
Sample : aa24805-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 03 07:49:34 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration



2
7/3/13



(3) Benzidine

10.197min (+0.007) 10.74 ug/ml

response 83443

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3002.D
Acq On : 3 Jul 2013 7:53
Operator : jfi
Sample : aa24805-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 08:11:05 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

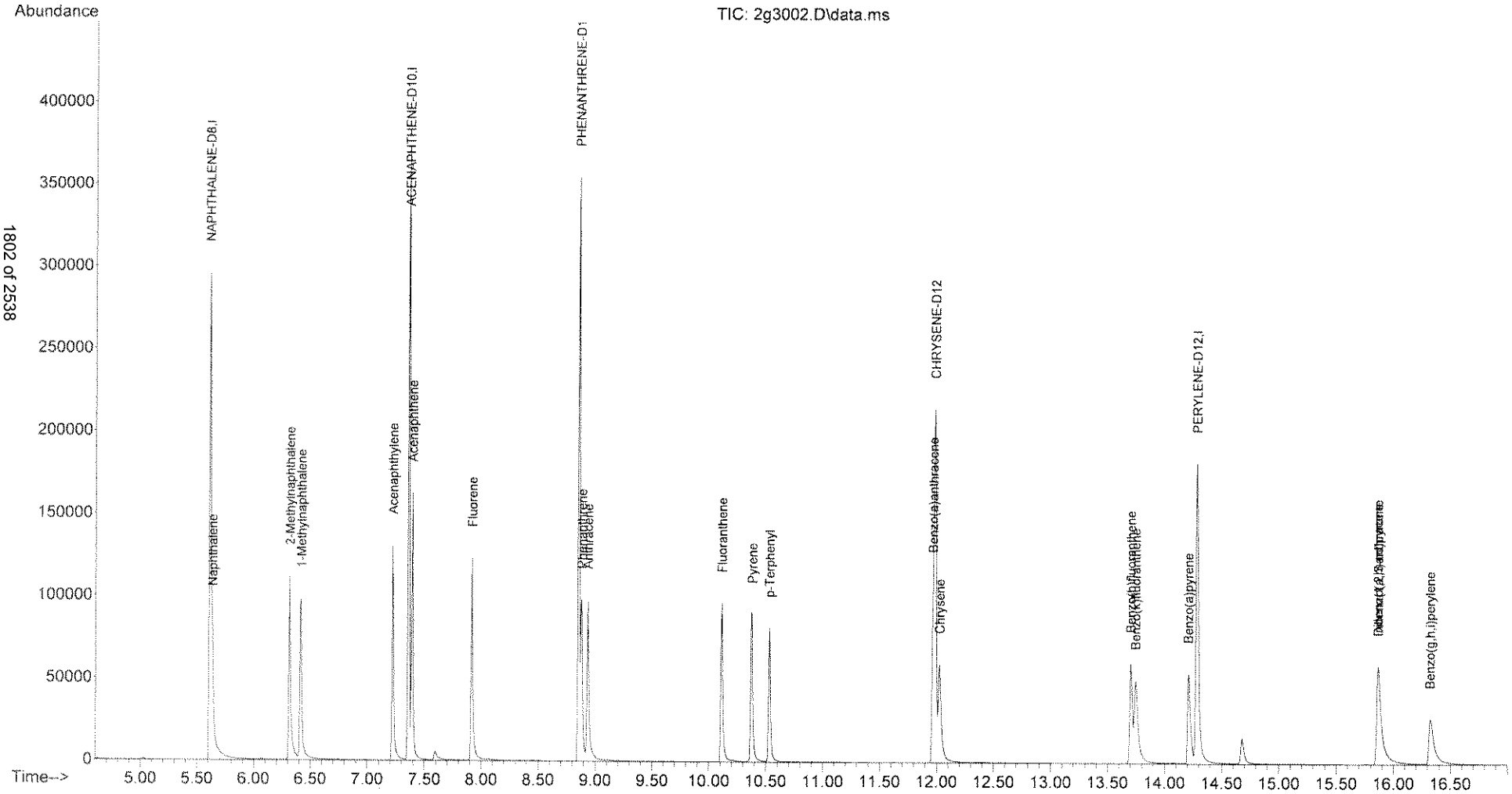
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.607	136	317149	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.364	164	180501	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.856	188	291890	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.984	240	272451	0.50	ug/mL	0.00
18) PERYLENE-D12	14.282	264	241675	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.634	128	80198	0.0988	ug/mL	99
3) 2-Methylnaphthalene	6.315	142	59121	0.0869	ug/mL	98
4) 1-Methylnaphthalene	6.416	142	55379	0.0893	ug/mL	99
6) Acenaphthylene	7.222	152	91004	0.1067	ug/mL	99
7) Acenaphthene	7.394	154	52279	0.1044	ug/mL	98
8) Fluorene	7.917	166	64545	0.0967	ug/mL	99
10) Phenanthrene	8.882	178	82148	0.0981	ug/mL	99
11) Anthracene	8.935	178	86218	0.1038	ug/mL	99
12) Fluoranthene	10.113	202	92783	0.0959	ug/mL	88
13) Pyrene	10.377	202	92346	0.0956	ug/mL	86
14) p-Terphenyl	10.530	230	69709	0.0905	ug/mL	100
16) Benzo(a)anthracene	11.967	228	76429	0.0988	ug/mL	98
17) Chrysene	12.027	228	77210	0.0984	ug/mL	98
19) Benzo(b)fluoranthene	13.703	252	62596	0.0931	ug/mL	97
20) Benzo(k)fluoranthene	13.746	252	72266	0.1039	ug/mL	94
21) Benzo(a)pyrene	14.209	252	67070	0.1104	ug/mL	95
22) Indeno(1,2,3-cd)pyrene	15.867	276	68027	0.0883	ug/mL	87
23) Dibenzo(a,h)anthracene	15.867	278	56836	0.0900	ug/mL	93
24) Benzo(g,h,i)perylene	16.323	276	59367	0.0864	ug/mL	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3002.D
Acq On : 3 Jul 2013 7:53
Operator : jfi
Sample : aa24805-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 08:11:05 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3003.D
Acq On : 3 Jul 2013 8:15
Operator : jfi
Sample : 3f18005-blk1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 08:33:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

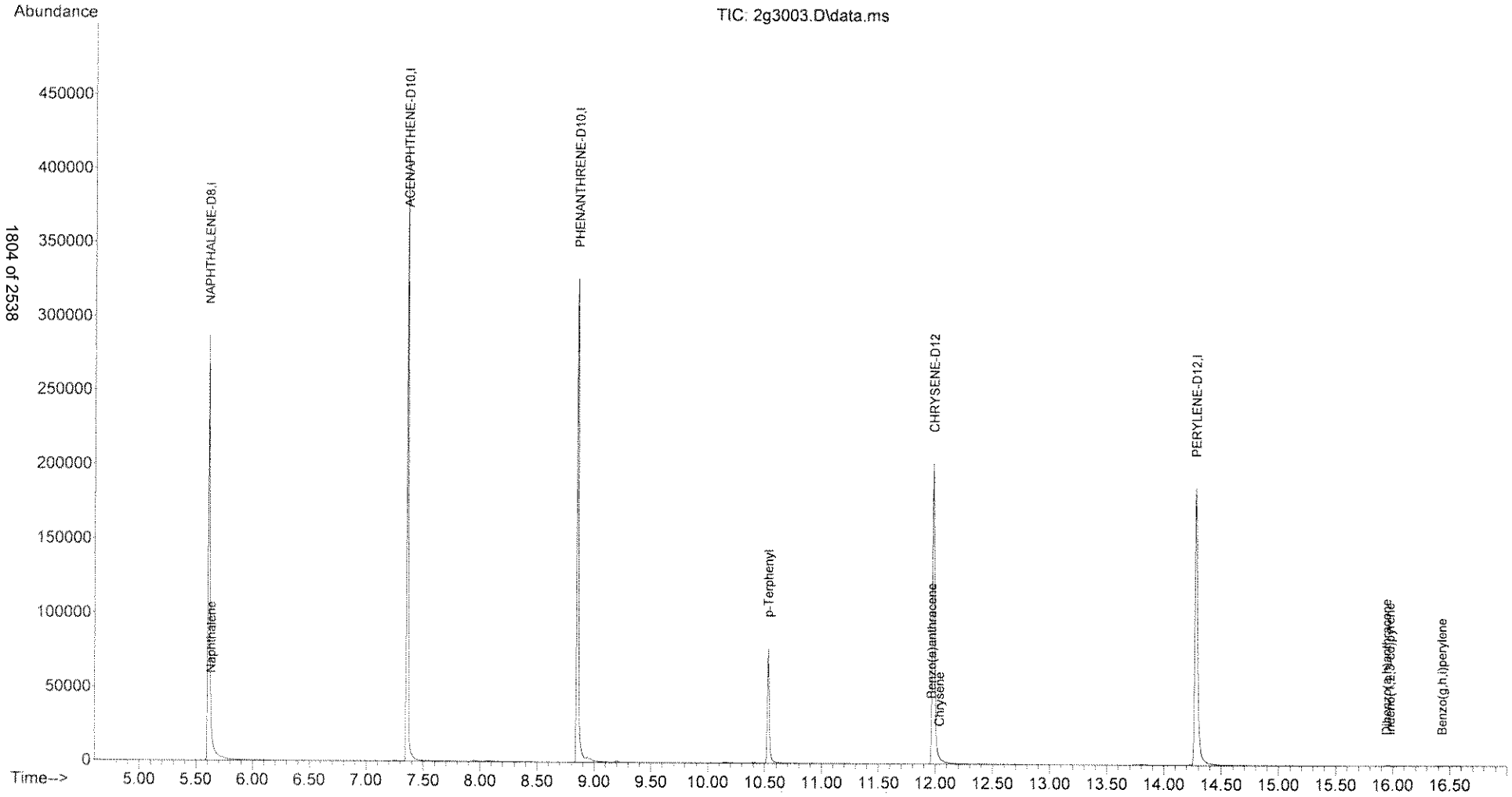
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.609	136	307718	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.357	164	185101	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.854	188	302150	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.978	240	293126	0.50 ug/mL	0.00
18) PERYLENE-D12	14.277	264	261192	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.630	128	152	0.0002 ug/mL	94
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.527	230	65255	0.0818 ug/mL	99
16) Benzo(a)anthracene	11.962	228	1554	0.0010 ug/mL	88
17) Chrysene	12.033	228	1005	0.0012 ug/mL	89
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	15.972	276	821	0.0010 ug/mL	72
23) Dibenzo(a,h)anthracene	15.939	278	713	0.0010 ug/mL	96
24) Benzo(g,h,i)perylene	16.428	276	756	0.0010 ug/mL	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3003.D
Acq On : 3 Jul 2013 8:15
Operator : jfi
Sample : 3f18005-blk1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 08:33:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3004.D
Acq On : 3 Jul 2013 8:36
Operator : jfi
Sample : 3f24006-blk1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 08:54:36 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

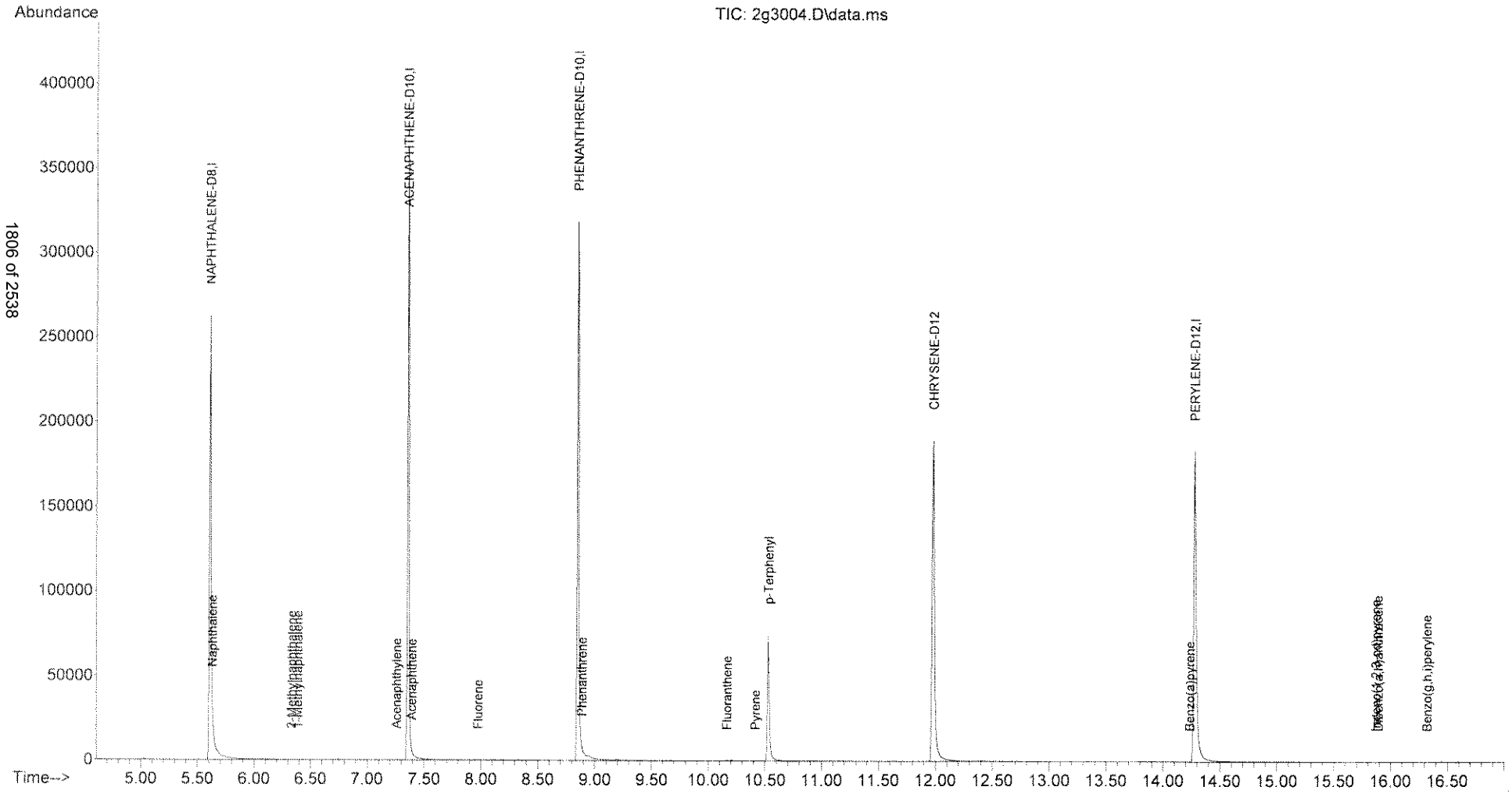
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.611	136	298187	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	177829	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.848	188	288245	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.979	240	278022	0.50	ug/mL	0.00
18) PERYLENE-D12	14.277	264	247612	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.631	128	83	0.0001	ug/mL	58
3) 2-Methylnaphthalene	6.332	142	18	0.0000	ug/mL	94
4) 1-Methylnaphthalene	6.386	142	42	0.0001	ug/mL	80
6) Acenaphthylene	7.258	152	269	0.0003	ug/mL	99
7) Acenaphthene	7.393	154	175	0.0004	ug/mL	90
8) Fluorene	7.976	166	277	0.0004	ug/mL	76
10) Phenanthrene	8.888	178	395	0.0005	ug/mL	77
11) Anthracene	0.000		0	N.D.	d	
12) Fluoranthene	10.165	202	368	0.0004	ug/mL	87
13) Pyrene	10.416	202	367	0.0004	ug/mL#	59
14) p-Terphenyl	10.529	230	63047	0.0829	ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D.	d	
17) Chrysene	0.000		0	N.D.	d	
19) Benzo(b)fluoranthene	0.000		0	N.D.		
20) Benzo(k)fluoranthene	0.000		0	N.D.		
21) Benzo(a)pyrene	14.234	252	96	0.0002	ug/mL#	74
22) Indeno(1,2,3-cd)pyrene	15.868	276	13	0.0000	ug/mL#	1
23) Dibenzo(a,h)anthracene	15.887	278	12	0.0000	ug/mL#	2
24) Benzo(g,h,i)perylene	16.317	276	10	0.0000	ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3004.D
Acq On : 3 Jul 2013 8:36
Operator : jfi
Sample : 3f24006-blk1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 08:54:36 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3005.D
Acq On : 3 Jul 2013 9:44
Operator : jfi
Sample : 3f18005-bs1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 10:02:58 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

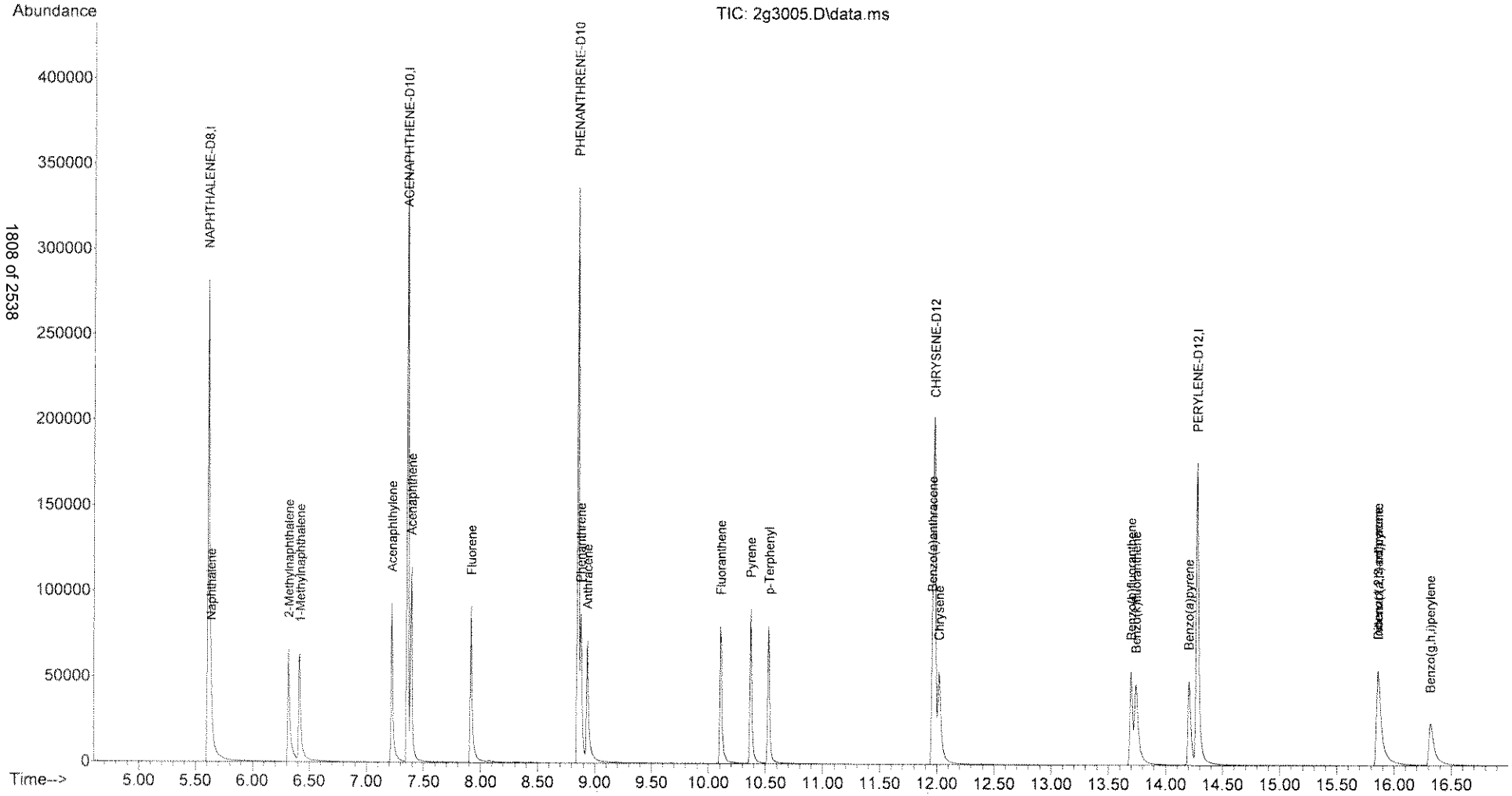
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.607	136	292439	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	169714	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	276074	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.979	240	263838	0.50	ug/mL	0.00
18) PERYLENE-D12	14.277	264	239358	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.634	128	60174	0.0804	ug/mL	99
3) 2-Methylnaphthalene	6.315	142	40312	0.0642	ug/mL	98
4) 1-Methylnaphthalene	6.416	142	40585	0.0710	ug/mL	98
6) Acenaphthylene	7.221	152	72023	0.0898	ug/mL	100
7) Acenaphthene	7.393	154	42202	0.0897	ug/mL	98
8) Fluorene	7.917	166	53111	0.0846	ug/mL	99
10) Phenanthrene	8.875	178	70978	0.0896	ug/mL	100
11) Anthracene	8.935	178	71119	0.0905	ug/mL	99
12) Fluoranthene	10.105	202	81847	0.0895	ug/mL	88
13) Pyrene	10.370	202	84575	0.0926	ug/mL	86
14) p-Terphenyl	10.529	230	72423	0.0994	ug/mL	100
16) Benzo(a)anthracene	11.957	228	68083	0.0908	ug/mL	98
17) Chrysene	12.017	228	74172	0.0976	ug/mL	98
19) Benzo(b)fluoranthene	13.698	252	59299	0.0891	ug/mL	96
20) Benzo(k)fluoranthene	13.741	252	69845	0.1013	ug/mL	96
21) Benzo(a)pyrene	14.204	252	60446	0.1005	ug/mL	95
22) Indeno(1,2,3-cd)pyrene	15.860	276	65706	0.0861	ug/mL	89
23) Dibenzo(a,h)anthracene	15.860	278	55642	0.0890	ug/mL	94
24) Benzo(g,h,i)perylene	16.316	276	56515	0.0831	ug/mL	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3005.D
Acq On : 3 Jul 2013 9:44
Operator : jfi
Sample : 3f18005-bs1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 10:02:58 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3006.D
Acq On : 3 Jul 2013 10:06
Operator : jfi
Sample : 3f18005-bsd1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 10:24:49 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

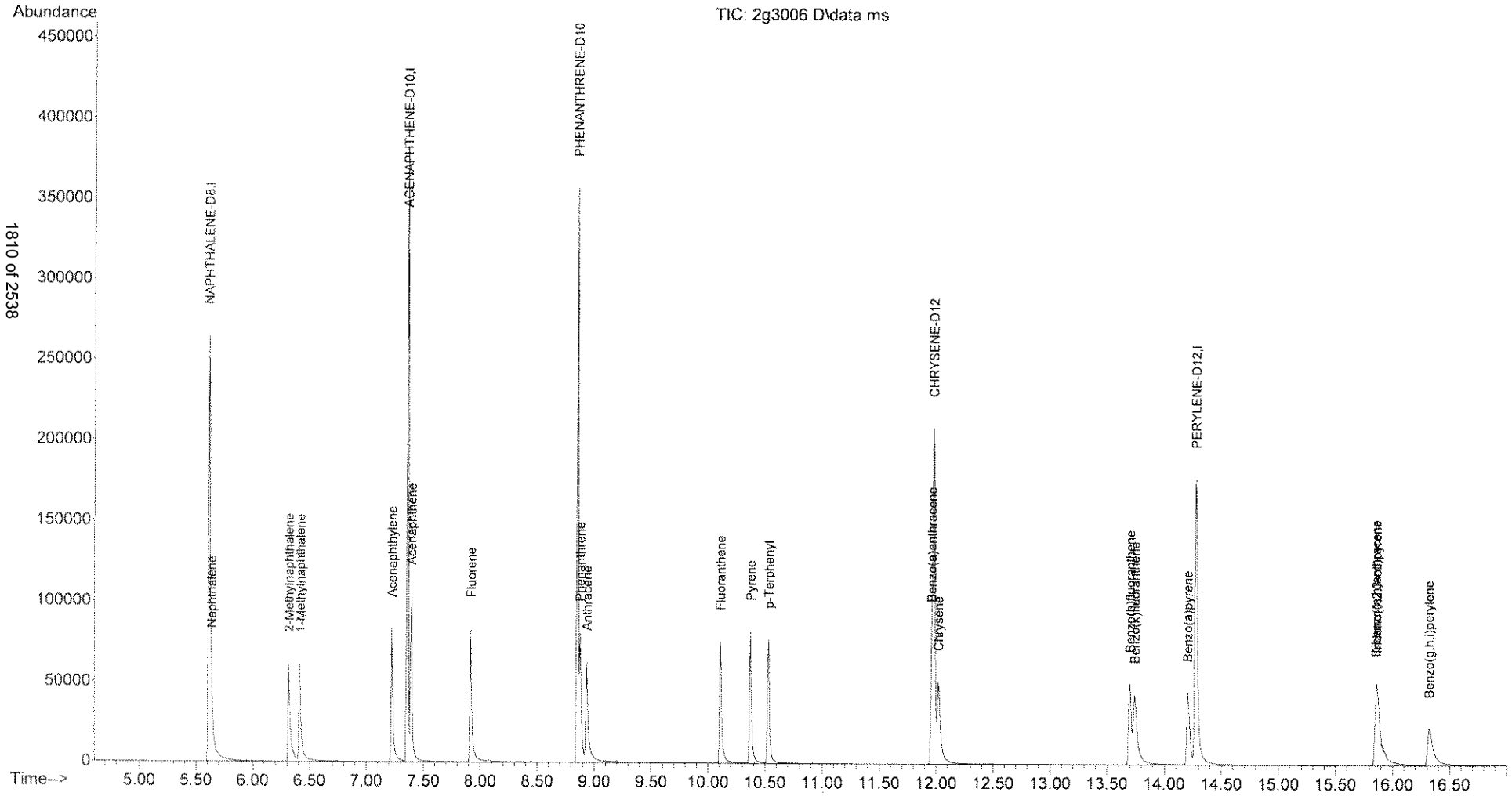
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.607	136	295512	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	173429	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	278952	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.974	240	268619	0.50	ug/mL	0.00
18) PERYLENE-D12	14.277	264	243863	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.634	128	55043	0.0728	ug/mL	99
3) 2-Methylnaphthalene	6.315	142	37598	0.0593	ug/mL	97
4) 1-Methylnaphthalene	6.416	142	37490	0.0649	ug/mL	97
6) Acenaphthylene	7.222	152	65851	0.0804	ug/mL	99
7) Acenaphthene	7.394	154	37784	0.0786	ug/mL	96
8) Fluorene	7.917	166	48753	0.0760	ug/mL	98
10) Phenanthrene	8.876	178	65276	0.0816	ug/mL	99
11) Anthracene	8.935	178	64865	0.0817	ug/mL	99
12) Fluoranthene	10.106	202	76255	0.0825	ug/mL	88
13) Pyrene	10.371	202	78677	0.0852	ug/mL	86
14) p-Terphenyl	10.530	230	67755	0.0920	ug/mL	100
16) Benzo(a)anthracene	11.957	228	63664	0.0833	ug/mL	98
17) Chrysene	12.017	228	68800	0.0889	ug/mL	98
19) Benzo(b)fluoranthene	13.698	252	54980	0.0810	ug/mL	96
20) Benzo(k)fluoranthene	13.740	252	66333	0.0945	ug/mL	96
21) Benzo(a)pyrene	14.203	252	55969	0.0913	ug/mL	95
22) Indeno(1,2,3-cd)pyrene	15.861	276	62119	0.0799	ug/mL	88
23) Dibenzo(a,h)anthracene	15.854	278	52494	0.0824	ug/mL	94
24) Benzo(g,h,i)perylene	16.317	276	53088	0.0766	ug/mL	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3006.D
Acq On : 3 Jul 2013 10:06
Operator : jfi
Sample : 3f18005-bsd1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 10:24:49 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3007.D
Acq On : 3 Jul 2013 10:27
Operator : jfi
Sample : 3f24006-bs1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 10:49:28 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

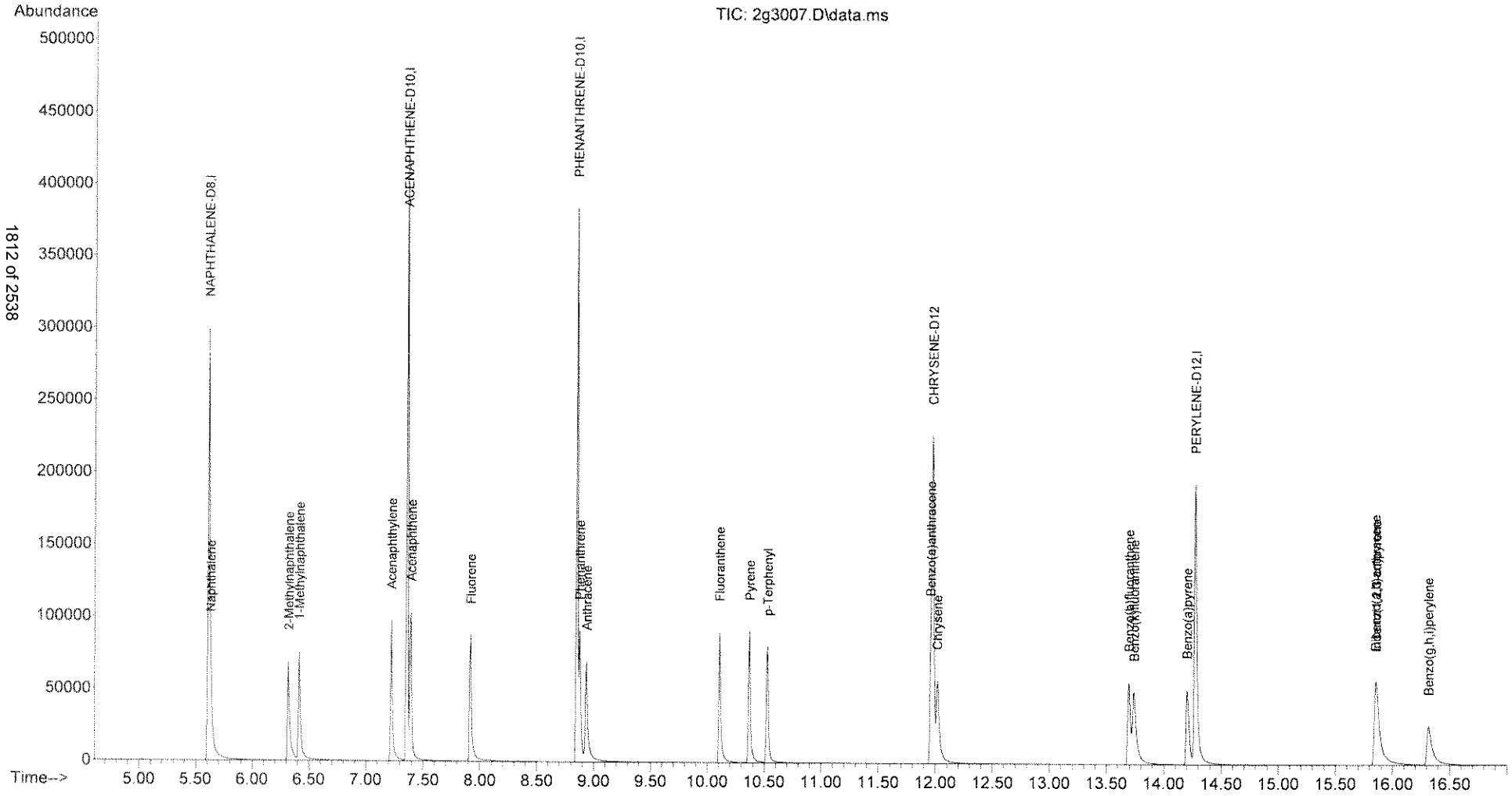
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.610	136	312807	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.357	164	183603	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	297955	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.974	240	289328	0.50	ug/mL	0.00
18) PERYLENE-D12	14.276	264	262743	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.630	128	61967	0.0774	ug/mL	100
3) 2-Methylnaphthalene	6.318	142	42216	0.0629	ug/mL	97
4) 1-Methylnaphthalene	6.412	142	41682	0.0681	ug/mL	97
6) Acenaphthylene	7.222	152	74510	0.0859	ug/mL	99
7) Acenaphthene	7.394	154	42885	0.0842	ug/mL	99
8) Fluorene	7.918	166	55105	0.0811	ug/mL	99
10) Phenanthrene	8.875	178	73026	0.0854	ug/mL	100
11) Anthracene	8.935	178	73313	0.0865	ug/mL	100
12) Fluoranthene	10.106	202	84892	0.0860	ug/mL	88
13) Pyrene	10.370	202	87145	0.0884	ug/mL	86
14) p-Terphenyl	10.529	230	75461	0.0959	ug/mL	99
16) Benzo(a)anthracene	11.957	228	71792	0.0873	ug/mL	99
17) Chrysene	12.017	228	76890	0.0922	ug/mL	98
19) Benzo(b)fluoranthene	13.697	252	57680	0.0789	ug/mL	95
20) Benzo(k)fluoranthene	13.740	252	78065	0.1032	ug/mL	95
21) Benzo(a)pyrene	14.203	252	63059	0.0955	ug/mL	95
22) Indeno(1,2,3-cd)pyrene	15.860	276	69598	0.0831	ug/mL	89
23) Dibenzo(a,h)anthracene	15.854	278	58979	0.0859	ug/mL	94
24) Benzo(g,h,i)perylene	16.316	276	59670	0.0799	ug/mL	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3007.D
Acq On : 3 Jul 2013 10:27
Operator : jfi
Sample : 3f24006-bs1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 10:49:28 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3008.D
Acq On : 3 Jul 2013 10:49
Operator : jfi
Sample : 3f24006-bsd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 11:16:25 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

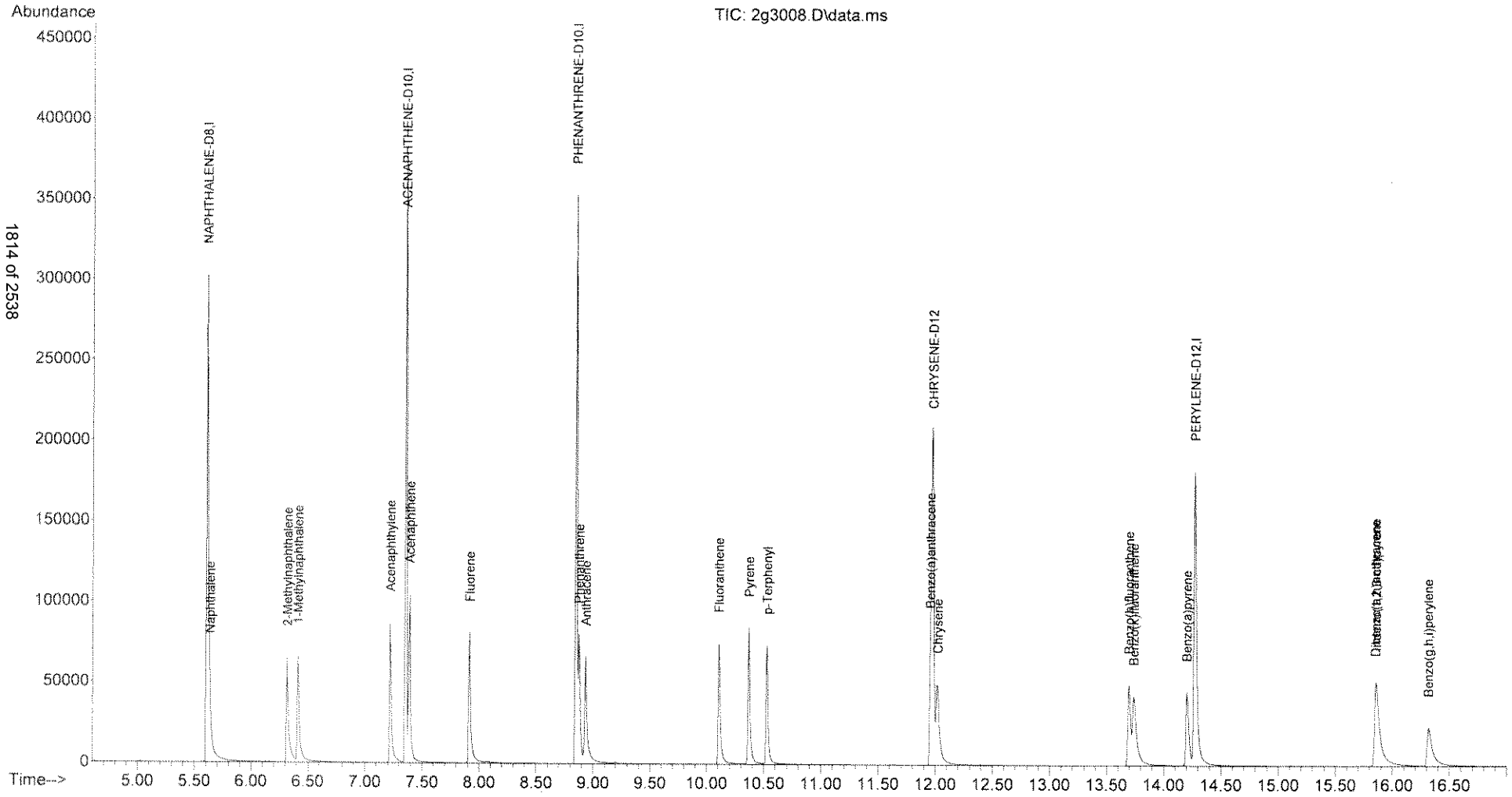
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.609	136	303744	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	175675	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	287214	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.978	240	276322	0.50	ug/mL	0.00
18) PERYLENE-D12	14.276	264	250582	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.636	128	57067	0.0734	ug/mL	99
3) 2-Methylnaphthalene	6.317	142	38160	0.0585	ug/mL	98
4) 1-Methylnaphthalene	6.411	142	38496	0.0648	ug/mL	98
6) Acenaphthylene	7.221	152	68284	0.0823	ug/mL	100
7) Acenaphthene	7.393	154	38065	0.0781	ug/mL	95
8) Fluorene	7.917	166	50192	0.0772	ug/mL	98
10) Phenanthrene	8.875	178	66627	0.0808	ug/mL	100
11) Anthracene	8.935	178	66457	0.0813	ug/mL	100
12) Fluoranthene	10.105	202	76515	0.0804	ug/mL	89
13) Pyrene	10.370	202	79611	0.0838	ug/mL	86
14) p-Terphenyl	10.529	230	68108	0.0898	ug/mL	99
16) Benzo(a)anthracene	11.956	228	64606	0.0822	ug/mL	98
17) Chrysene	12.022	228	70251	0.0882	ug/mL	98
19) Benzo(b)fluoranthene	13.697	252	55093	0.0790	ug/mL	96
20) Benzo(k)fluoranthene	13.740	252	66487	0.0922	ug/mL	96
21) Benzo(a)pyrene	14.203	252	56849	0.0903	ug/mL	95
22) Indeno(1,2,3-cd)pyrene	15.860	276	62483	0.0782	ug/mL	89
23) Dibenzo(a,h)anthracene	15.854	278	52698	0.0805	ug/mL	95
24) Benzo(g,h,i)perylene	16.316	276	53658	0.0754	ug/mL	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3008.D
Acq On : 3 Jul 2013 10:49
Operator : jfi
Sample : 3f24006-bsd1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 11:16:25 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3009.D
Acq On : 3 Jul 2013 11:11
Operator : jfi
Sample : a303612-03rel
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 12:08:14 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

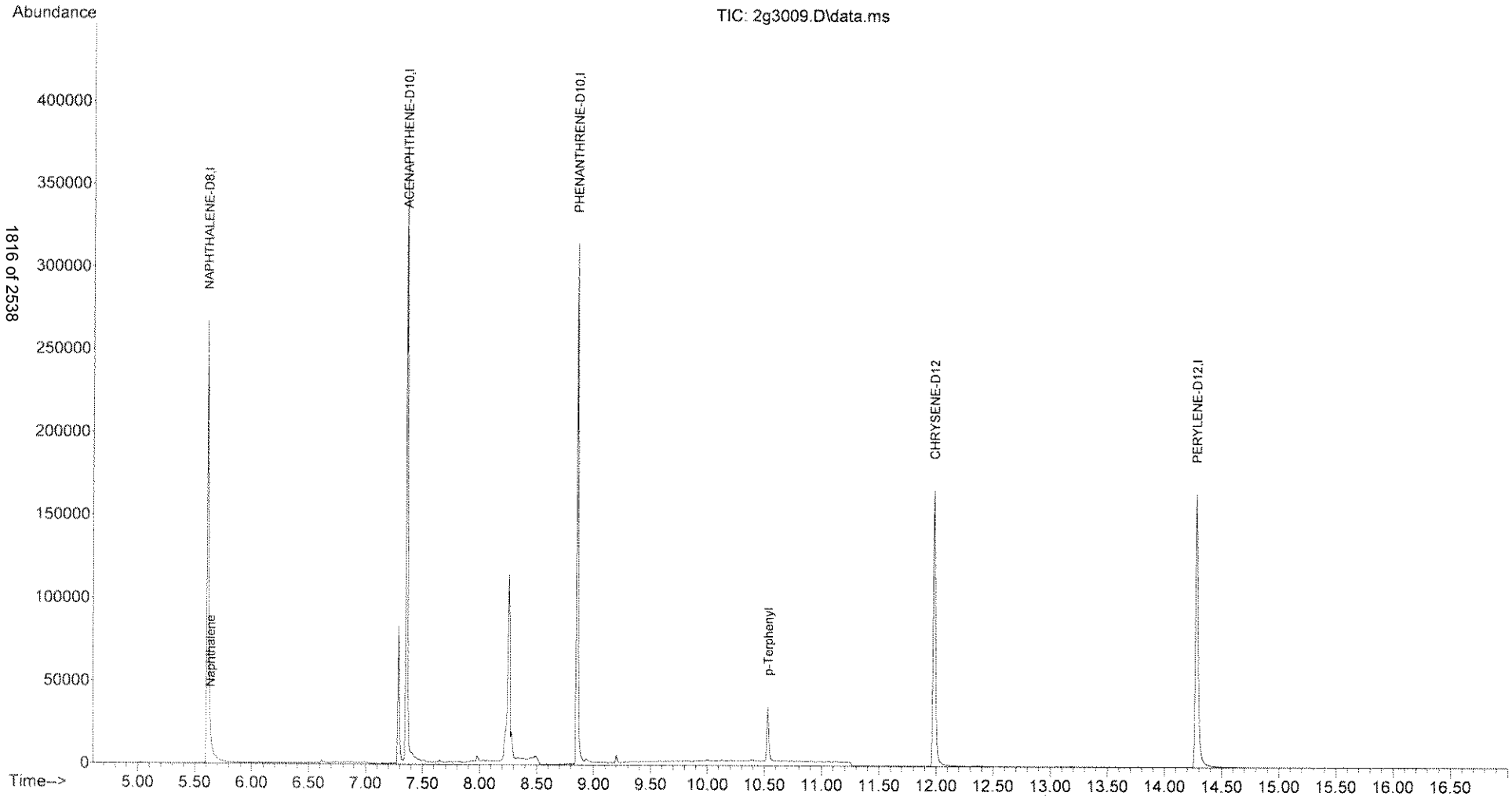
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.608	136	287216	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	164181	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	253526	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	234809	0.50 ug/mL	0.00
18) PERYLENE-D12	14.276	264	223211	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.635	128	1252	0.0017 ug/mL	89
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.530	230	28425	0.0425 ug/mL	100
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3009.D
Acq On : 3 Jul 2013 11:11
Operator : jfi
Sample : a303612-03re1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 12:08:14 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3010.D
Acq On : 3 Jul 2013 11:32
Operator : jfi
Sample : a303554-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 12:09:18 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

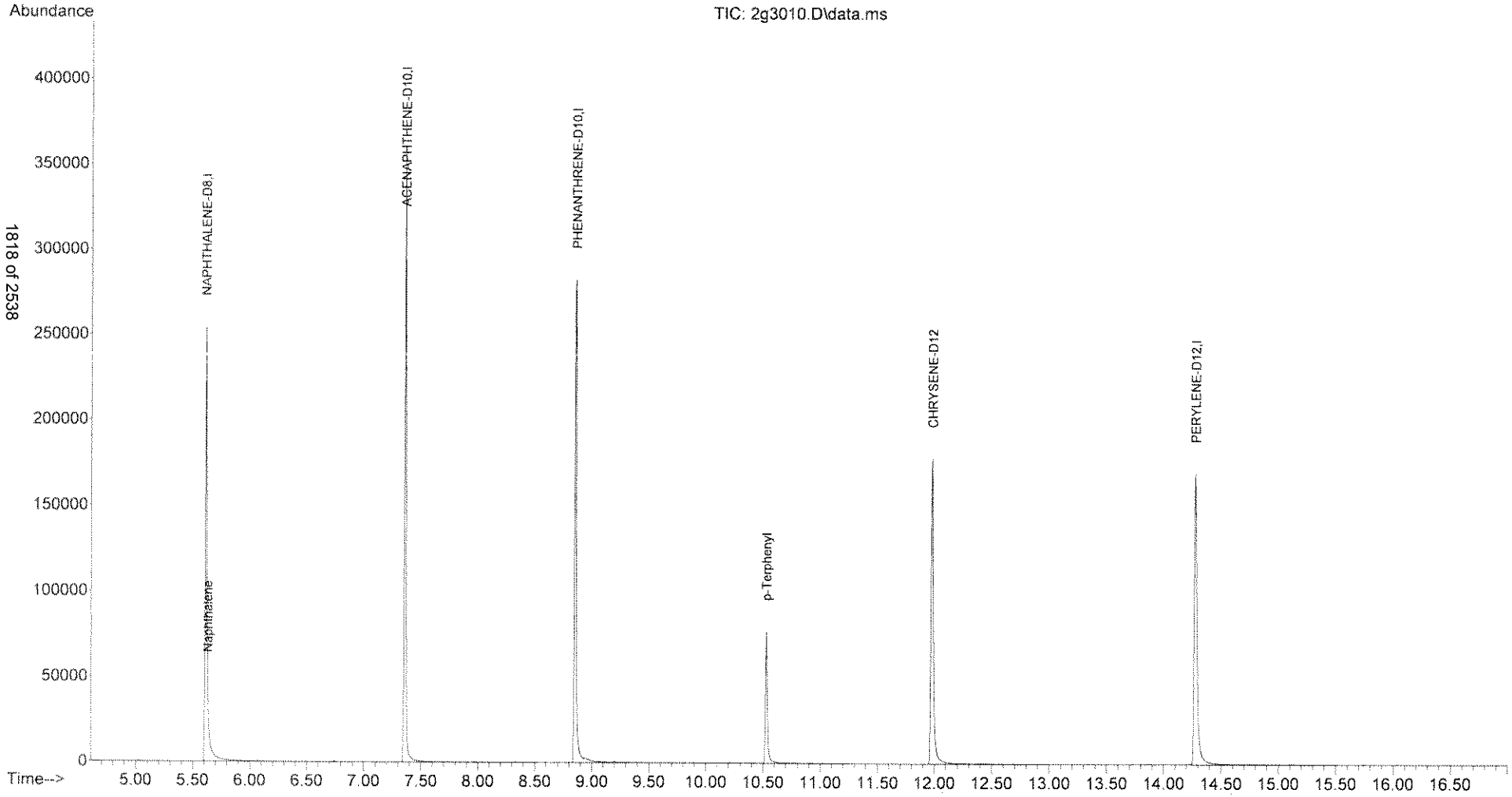
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.610	136	272173	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.357	164	166636	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.854	188	271127	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.979	240	263962	0.50	ug/mL	0.00
18) PERYLENE-D12	14.277	264	241688	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.630	128	90	0.0001	ug/mL	97
3) 2-Methylnaphthalene	0.000		0	N.D.	d	
4) 1-Methylnaphthalene	0.000		0	N.D.	d	
6) Acenaphthylene	0.000		0	N.D.	d	
7) Acenaphthene	0.000		0	N.D.	d	
8) Fluorene	0.000		0	N.D.	d	
10) Phenanthrene	0.000		0	N.D.	d	
11) Anthracene	0.000		0	N.D.	d	
12) Fluoranthene	0.000		0	N.D.	d	
13) Pyrene	0.000		0	N.D.	d	
14) p-Terphenyl	10.528	230	64621	0.0903	ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D.	d	
17) Chrysene	0.000		0	N.D.	d	
19) Benzo(b)fluoranthene	0.000		0	N.D.		
20) Benzo(k)fluoranthene	0.000		0	N.D.		
21) Benzo(a)pyrene	0.000		0	N.D.	d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
24) Benzo(g,h,i)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3010.D
Acq On : 3 Jul 2013 11:32
Operator : jfi
Sample : a303554-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 12:09:18 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3018.D
Acq On : 3 Jul 2013 14:26
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 03 16:44:34 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

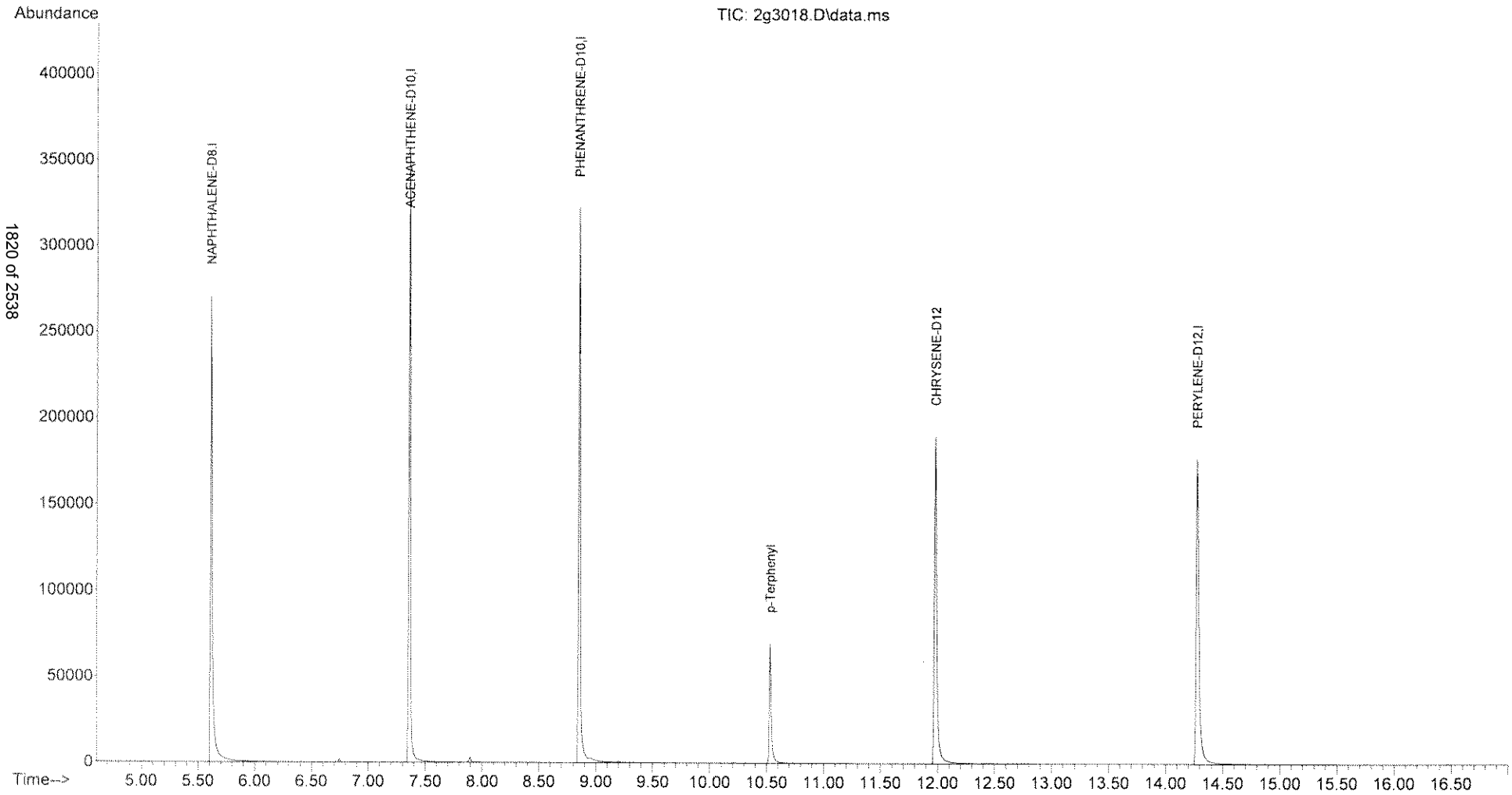
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.610	136	296751	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	177226	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	284982	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	275098	0.50 ug/mL	0.00
18) PERYLENE-D12	14.277	264	251057	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	0.000		0	N.D. d	
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.529	230	61223	0.0814 ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D.	
20) Benzo(k)fluoranthene	0.000		0	N.D.	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3018.D
Acq On : 3 Jul 2013 14:26
Operator : jfi
Sample : a303499-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 03 16:44:34 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3019.D
Acq On : 3 Jul 2013 14:48
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 16:46:47 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

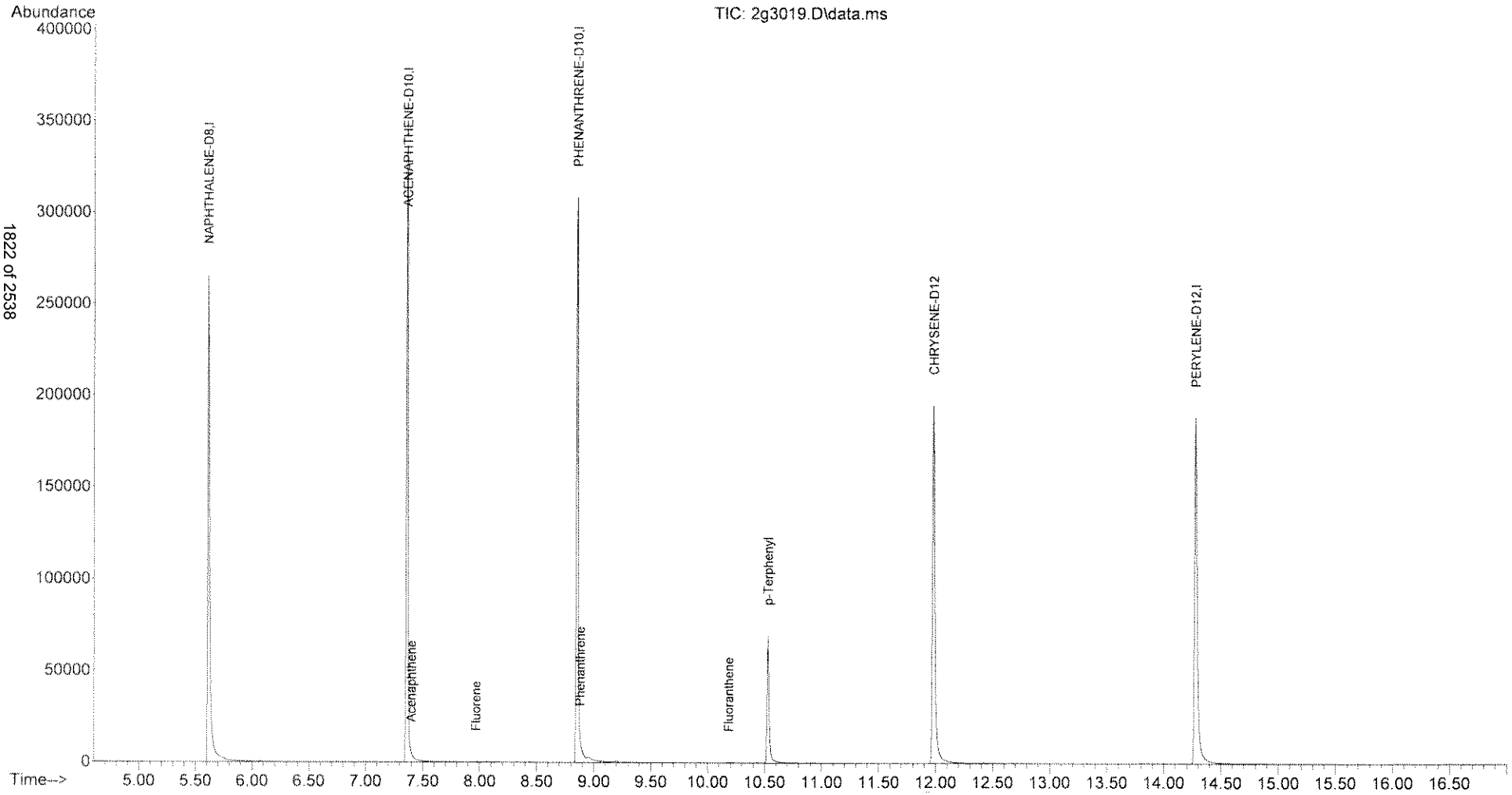
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.609	136	305955	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.363	164	185185	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.855	188	295156	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.978	240	286554	0.50 ug/mL	0.00
18) PERYLENE-D12	14.276	264	259446	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	0.000		0	N.D. d	
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	7.400	154	216	0.0004 ug/mL	91
8) Fluorene	7.968	166	325	0.0005 ug/mL	70
10) Phenanthrene	8.881	178	399	0.0005 ug/mL	96
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	10.184	202	364	0.0004 ug/mL	79
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.528	230	61784	0.0793 ug/mL	100
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D.	
20) Benzo(k)fluoranthene	0.000		0	N.D.	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3019.D
Acq On : 3 Jul 2013 14:48
Operator : jfi
Sample : a303499-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 16:46:47 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3020.D
Acq On : 3 Jul 2013 15:10
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 03 16:48:08 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

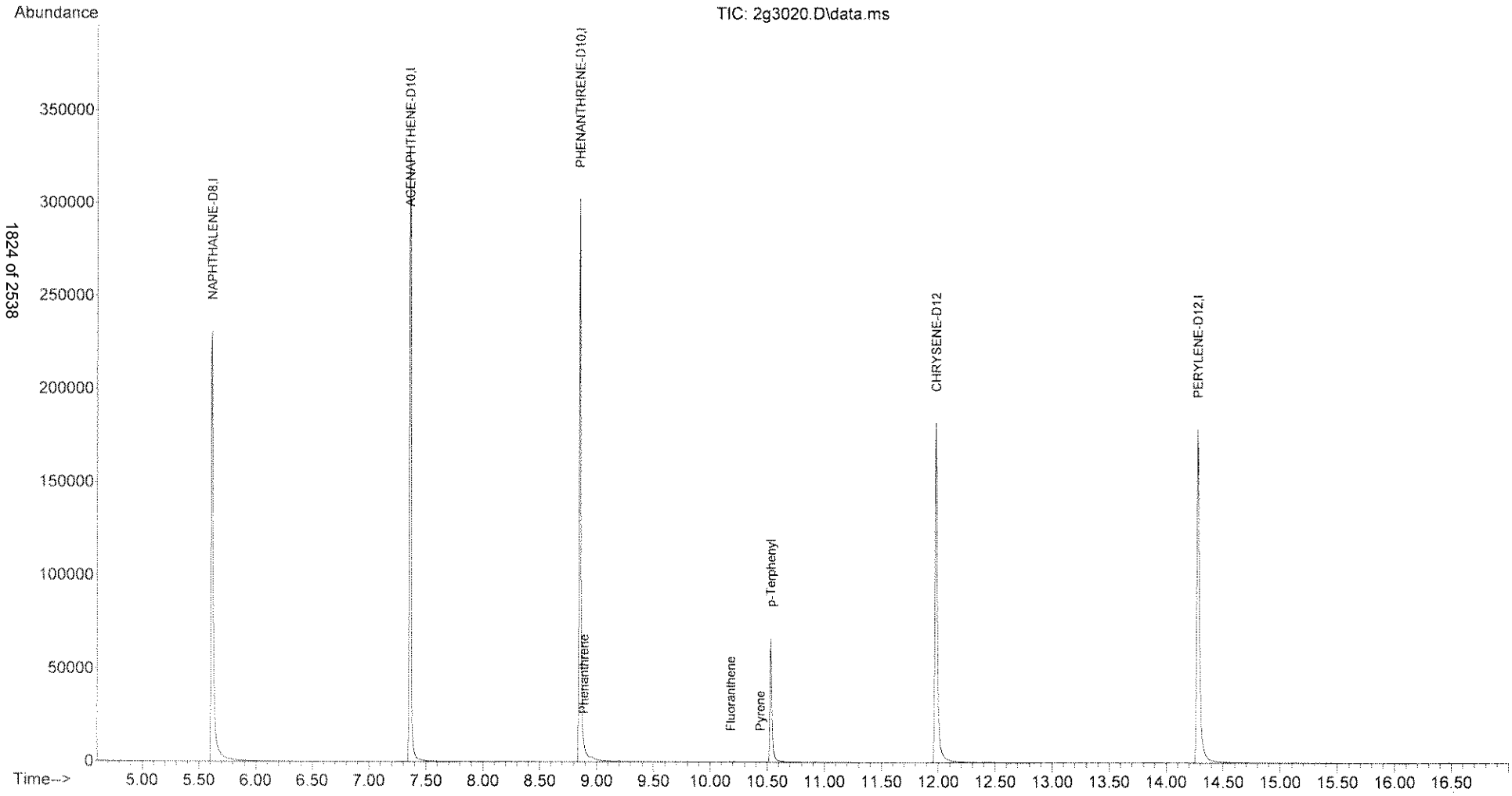
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.615	136	291252	0.50 ug/mL	0.03
5) ACENAPHTHENE-D10	7.356	164	173385	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	277577	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	267995	0.50 ug/mL	0.00
18) PERYLENE-D12	14.277	264	243172	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	0.000		0	N.D. d	
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	8.889	178	385m	0.0005 ug/mL	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	10.179	202	294	0.0003 ug/mL	79
13) Pyrene	10.437	202	379	0.0004 ug/mL#	59
14) p-Terphenyl	10.529	230	59428	0.0811 ug/mL	100
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3020.D
Acq On : 3 Jul 2013 15:10
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

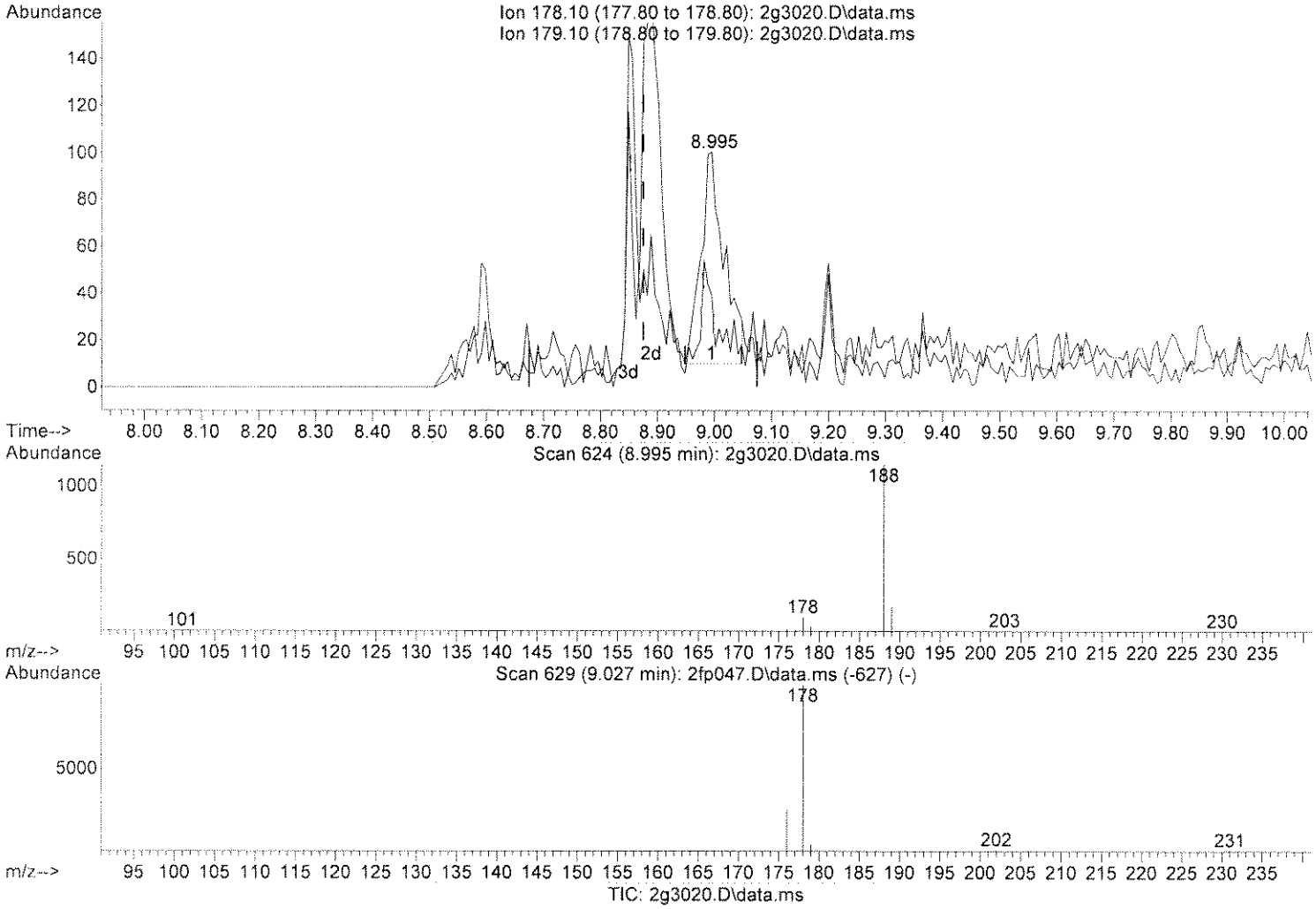
Quant Time: Jul 03 16:48:08 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3020.D
Acq On : 3 Jul 2013 15:10
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 03 16:29:01 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(10) Phenanthrene

8.995min (+0.119) 0.00 ug/mL

response 256

Ion	Exp%	Act%
178.10	100	100
179.10	15.90	31.64
0.00	0.00	0.00
0.00	0.00	0.00

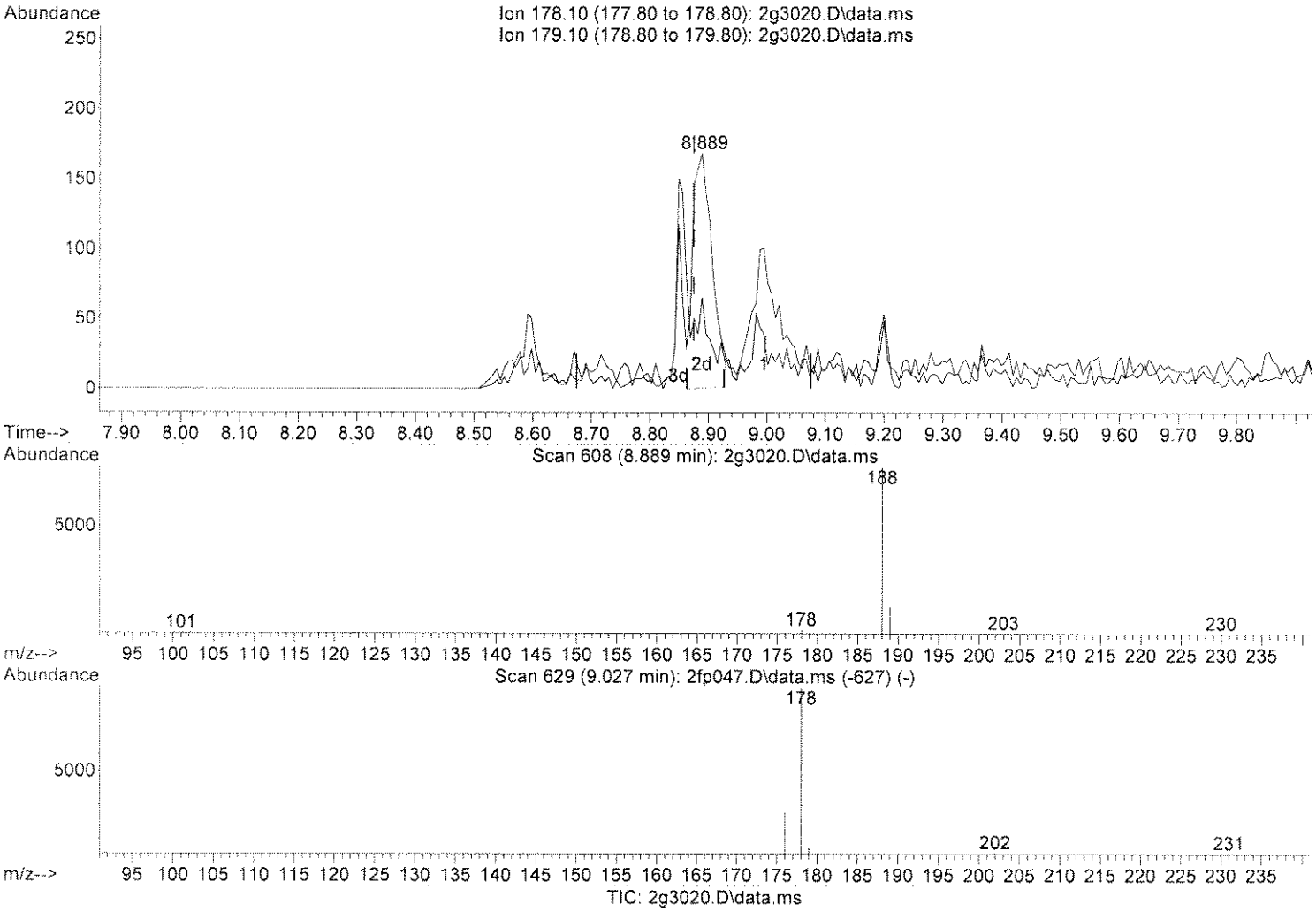
Select one.
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selected/peak not found
[ ] Re-integration
[ ] Baseline [illegible] for split peaks
[ ] Other:

Review by: [illegible] 7-3-13
Review by: [illegible] 7-5-13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3020.D
Acq On : 3 Jul 2013 15:10
Operator : jfi
Sample : a303499-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 03 16:29:01 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(10) Phenanthrene

8.889min (+0.013) 0.00 ug/mL m

response 385

Ion	Exp%	Act%
178.10	100	100
179.10	15.90	21.04
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Peak not under peak (shift, baseline correction)
[ ] Peak not found (peak not found)
[ ] Wrong peak
[ ] Baseline or shoulder peaks
[ ] Other:
Review by initials: JFI
Review by date: 7/15/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3021.D
Acq On : 3 Jul 2013 15:31
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 03 16:50:30 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

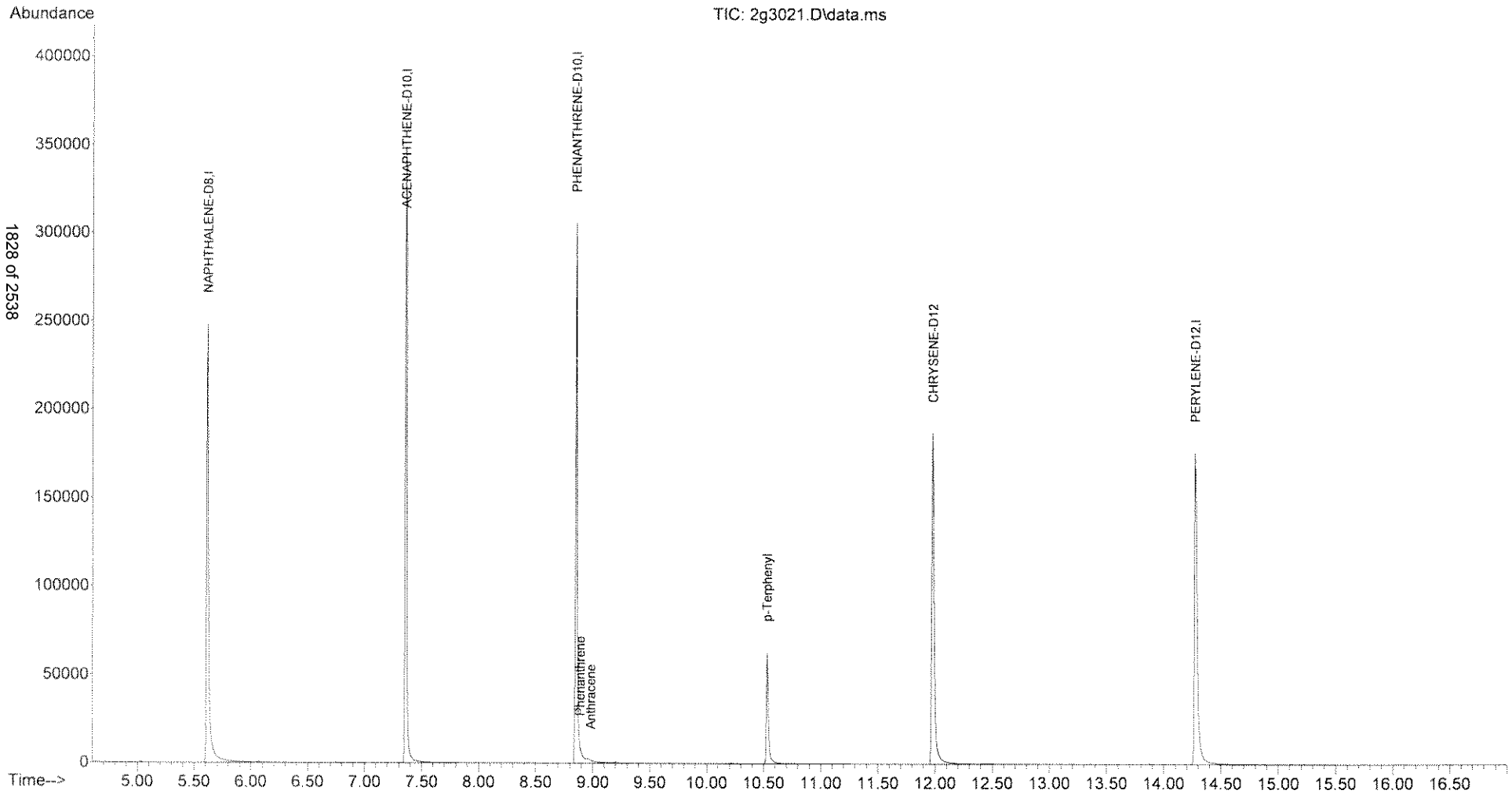
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.614	136	297919	0.50 ug/mL	0.03
5) ACENAPHTHENE-D10	7.356	164	178170	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	283300	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	268984	0.50 ug/mL	0.00
18) PERYLENE-D12	14.276	264	245007	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	0.000		0	N.D. d	
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	8.889	178	245m	0.0003 ug/mL	
11) Anthracene	8.981	178	205	0.0003 ug/mL	82
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.529	230	55447	0.0741 ug/mL	100
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3021.D
Acq On : 3 Jul 2013 15:31
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

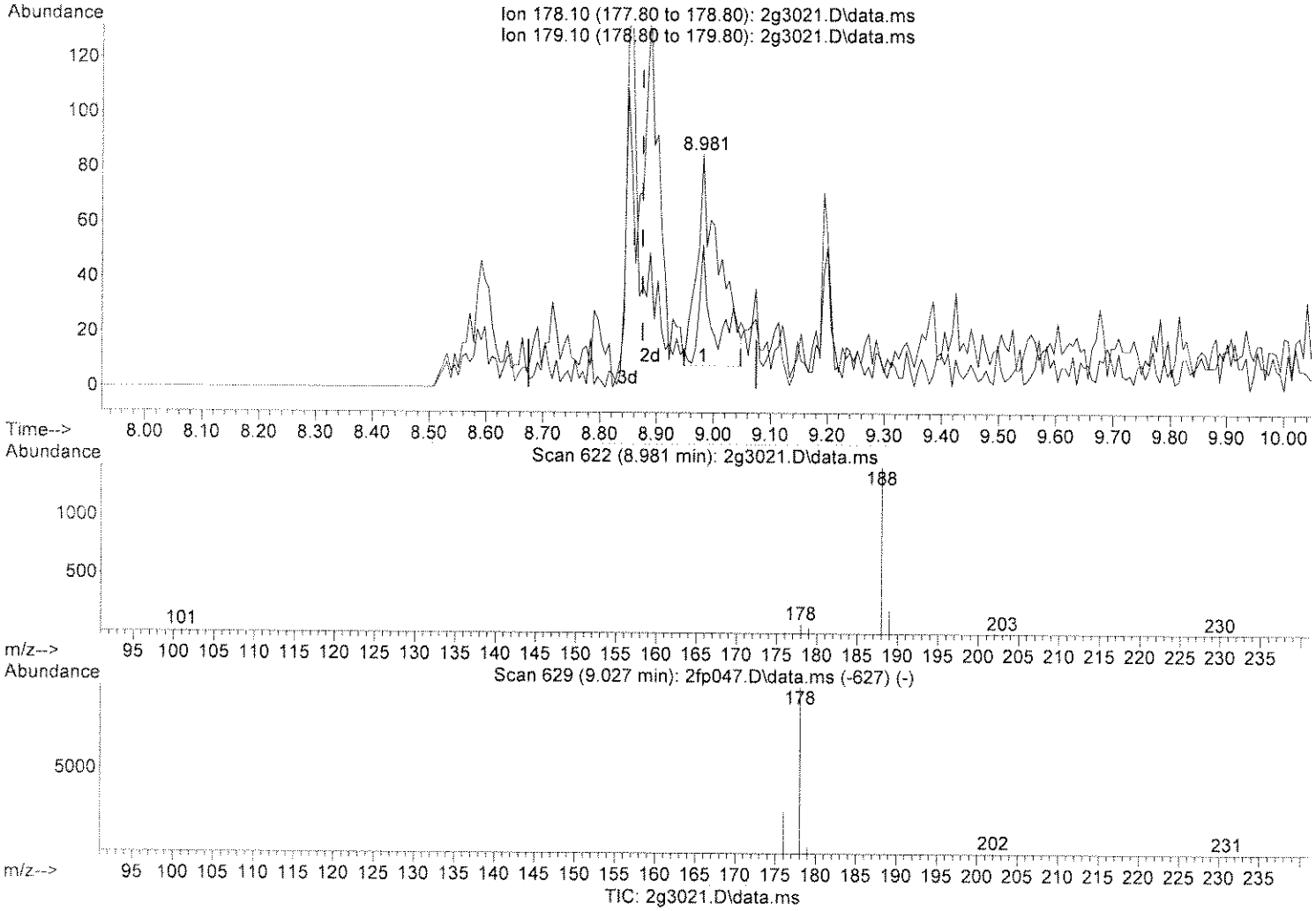
Quant Time: Jul 03 16:50:30 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3021.D
Acq On : 3 Jul 2013 15:31
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 03 16:29:03 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(10) Phenanthrene

8.981min (+0.106) 0.00 ug/mL

response 205

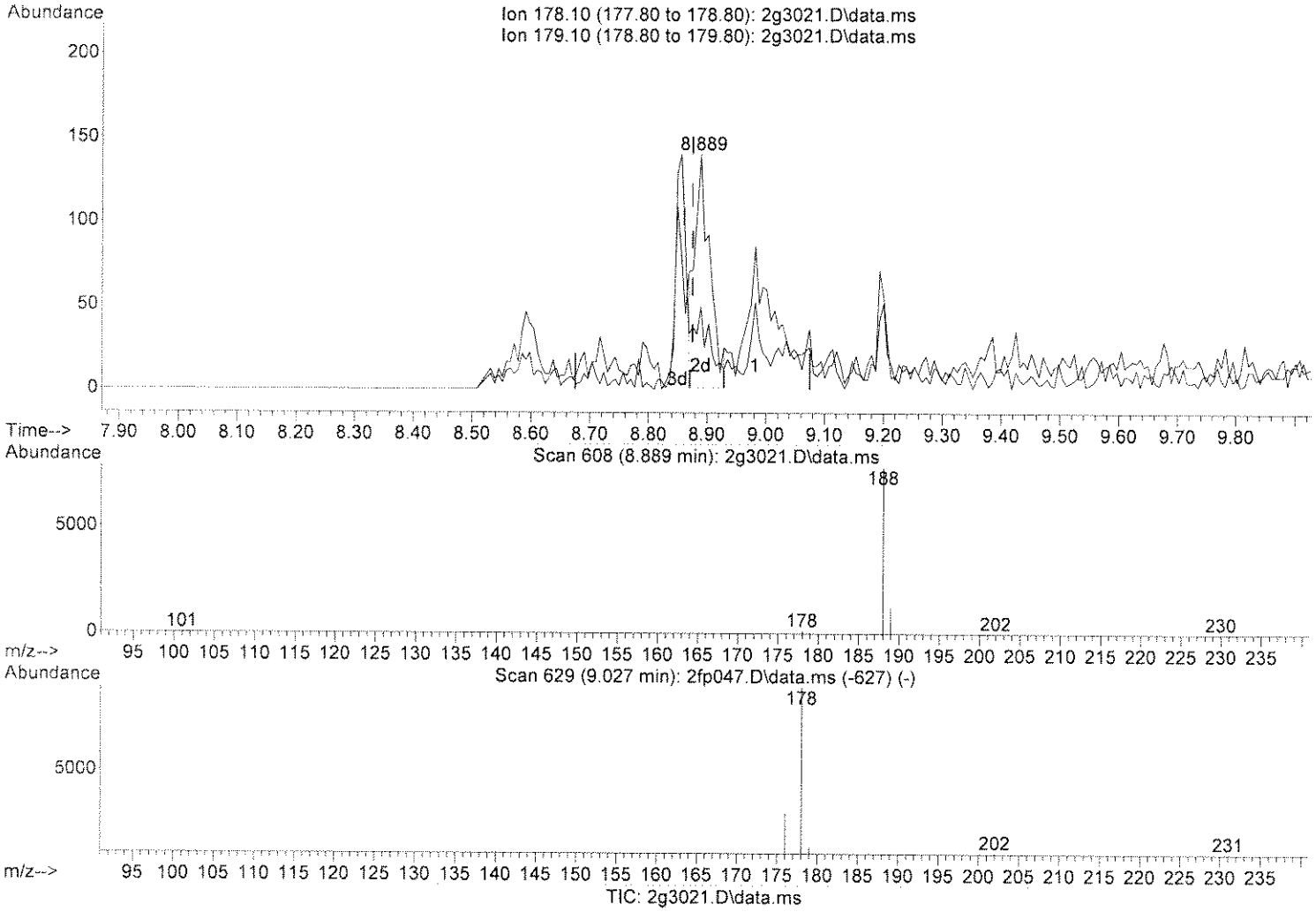
Ion	Exp%	Act%
178.10	100	100
179.10	15.90	22.93
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Huge tailing or SN
[ ] Baseline drift or split peaks
[ ] Other:
Review by/date: JJ 7.3.13
Review by/date: 10/7/13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3021.D
Acq On : 3 Jul 2013 15:31
Operator : jfi
Sample : a303499-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 03 16:29:03 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(10) Phenanthrene

8.889min (+0.014) 0.00 ug/mL m

response 245

Ion	Exp%	Act%
178.10	100	100
179.10	15.90	19.18
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Incorrect peak grouping, baseline selection
[ ] Incorrect peak selection/peak not found
[ ] Merge multiple peaks
[ ] Baseline drop or split peaks
[ ] Other:
Review by/date: 7-3-13
Review by/date: 7-1-13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3022.D
Acq On : 3 Jul 2013 15:53
Operator : jfi
Sample : a303499-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 03 16:51:44 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

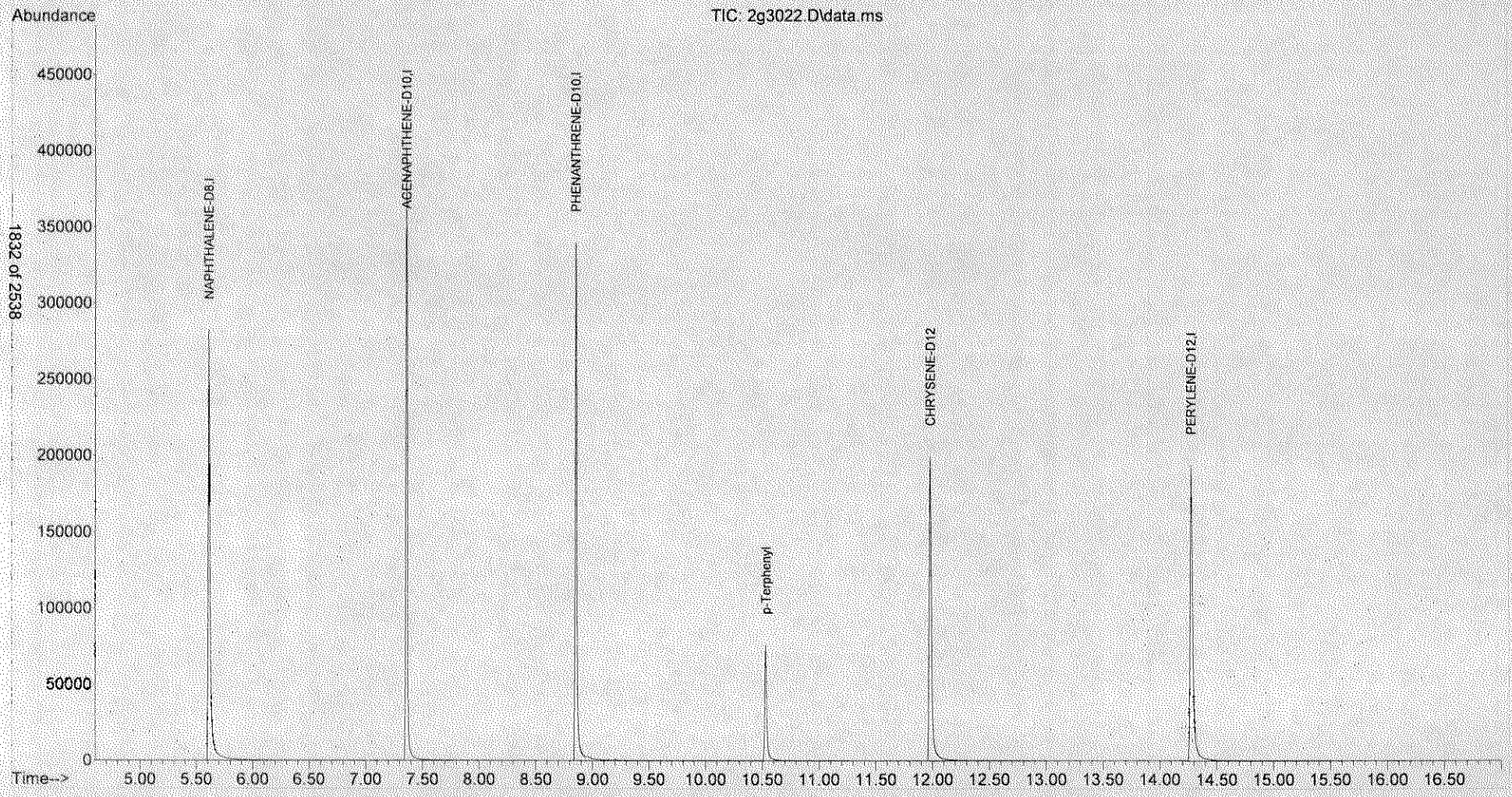
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.608	136	308024	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.357	164	186707	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.850	188	298119	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.979	240	286858	0.50	ug/mL	0.00
18) PERYLENE-D12	14.277	264	259158	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	0.000		0	N.D.	d	
3) 2-Methylnaphthalene	0.000		0	N.D.	d	
4) 1-Methylnaphthalene	0.000		0	N.D.	d	
6) Acenaphthylene	0.000		0	N.D.	d	
7) Acenaphthene	0.000		0	N.D.	d	
8) Fluorene	0.000		0	N.D.	d	
10) Phenanthrene	0.000		0	N.D.	d	
11) Anthracene	0.000		0	N.D.	d	
12) Fluoranthene	0.000		0	N.D.	d	
13) Pyrene	0.000		0	N.D.	d	
14) p-Terphenyl	10.530	230	67512	0.0858	ug/mL	100
16) Benzo(a)anthracene	0.000		0	N.D.	d	
17) Chrysene	0.000		0	N.D.	d	
19) Benzo(b)fluoranthene	0.000		0	N.D.	d	
20) Benzo(k)fluoranthene	0.000		0	N.D.	d	
21) Benzo(a)pyrene	0.000		0	N.D.	d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
24) Benzo(g,h,i)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3022.D
Acq On : 3 Jul 2013 15:53
Operator : jfi
Sample : a303499-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 03 16:51:44 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3023.D
Acq On : 3 Jul 2013 16:15
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 03 16:52:43 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

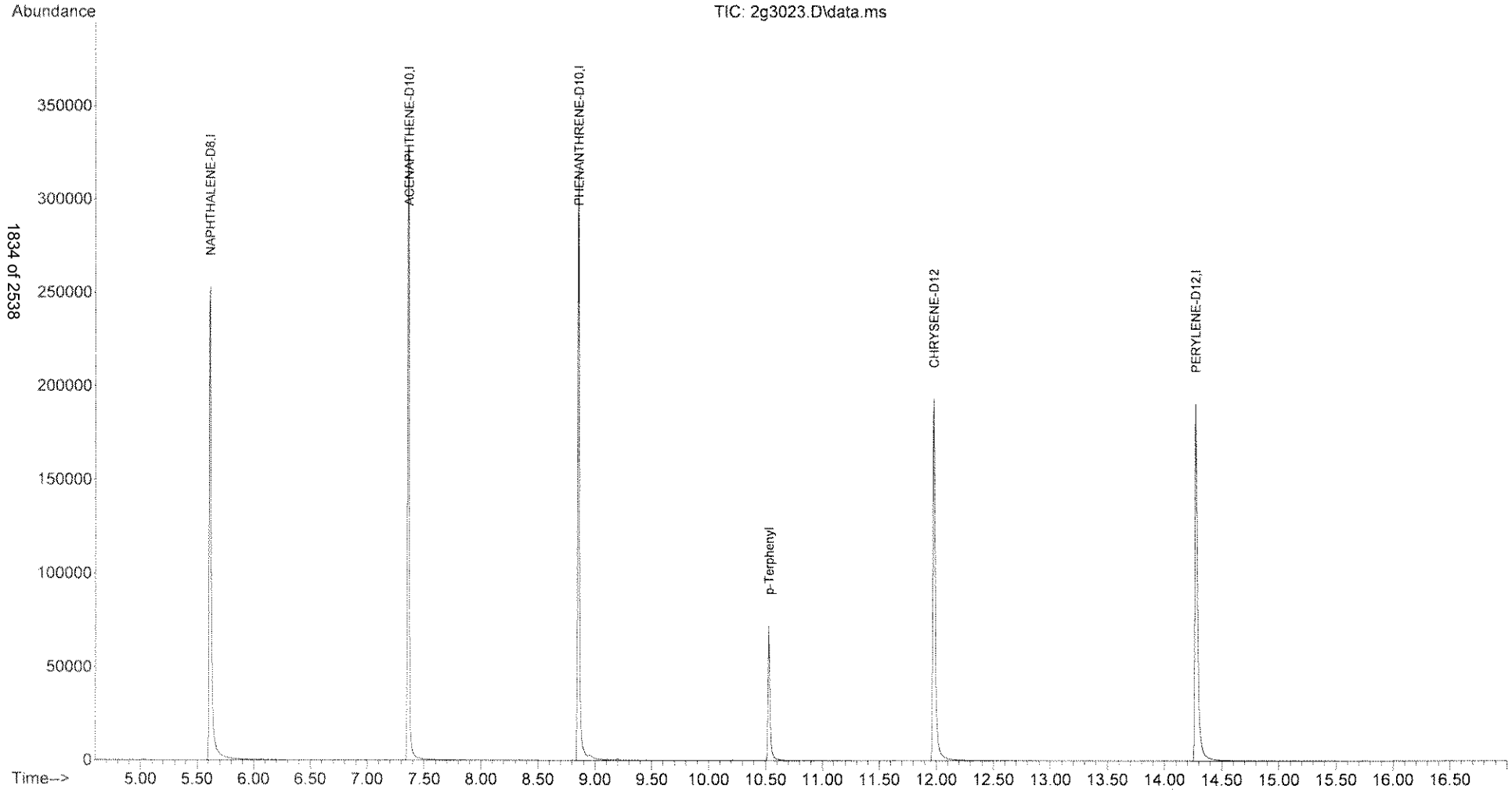
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.614	136	310461	0.50	ug/mL	0.03
5) ACENAPHTHENE-D10	7.363	164	185481	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.855	188	295889	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.978	240	282031	0.50	ug/mL	0.00
18) PERYLENE-D12	14.276	264	257292	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	0.000		0	N.D.	d	
3) 2-Methylnaphthalene	0.000		0	N.D.	d	
4) 1-Methylnaphthalene	0.000		0	N.D.	d	
6) Acenaphthylene	0.000		0	N.D.	d	
7) Acenaphthene	0.000		0	N.D.	d	
8) Fluorene	0.000		0	N.D.	d	
10) Phenanthrene	0.000		0	N.D.	d	
11) Anthracene	0.000		0	N.D.	d	
12) Fluoranthene	0.000		0	N.D.	d	
13) Pyrene	0.000		0	N.D.	d	
14) p-Terphenyl	10.529	230	63711	0.0816	ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D.	d	
17) Chrysene	0.000		0	N.D.	d	
19) Benzo(b)fluoranthene	0.000		0	N.D.		
20) Benzo(k)fluoranthene	0.000		0	N.D.		
21) Benzo(a)pyrene	0.000		0	N.D.	d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
24) Benzo(g,h,i)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3023.D
Acq On : 3 Jul 2013 16:15
Operator : jfi
Sample : a303499-12
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 03 16:52:43 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3024.D
Acq On : 3 Jul 2013 16:37
Operator : jfi
Sample : a303499-14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 03 17:07:36 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

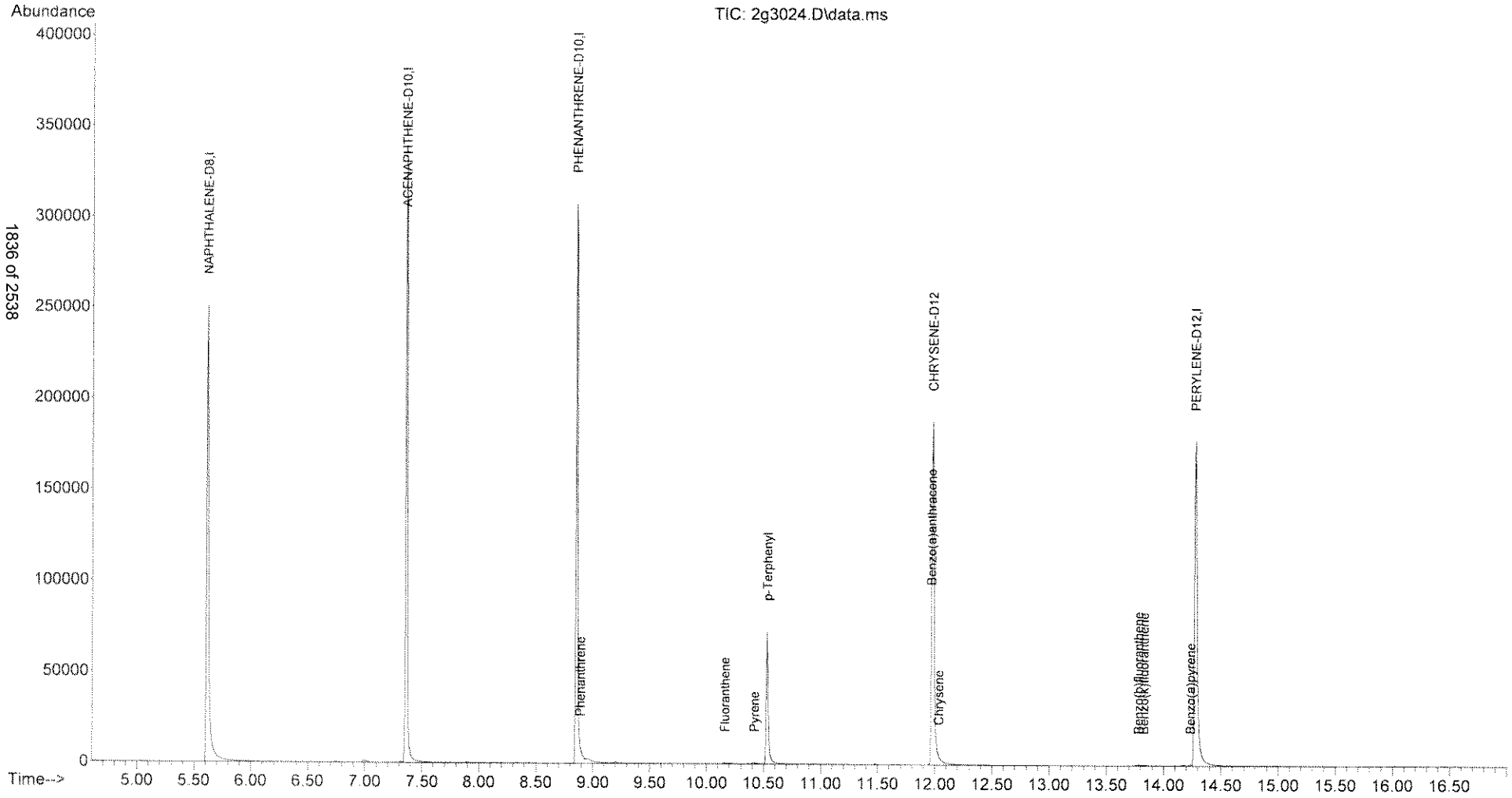
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.614	136	300230	0.50 ug/mL	0.03
5) ACENAPHTHENE-D10	7.356	164	179410	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	286197	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	271402	0.50 ug/mL	0.00
18) PERYLENE-D12	14.277	264	247291	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	0.000		0	N.D. d	
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	8.889	178	353	0.0004 ug/mL	83
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	10.159	202	936	0.0010 ug/mL	90
13) Pyrene	10.417	202	1204	0.0013 ug/mL	86
14) p-Terphenyl	10.529	230	62789	0.0831 ug/mL	100
16) Benzo(a)anthracene	11.968	228	1296	0.0008 ug/mL	86
17) Chrysene	12.033	228	810	0.0010 ug/mL	93
19) Benzo(b)fluoranthene	13.777	252	1168m	0.0017 ug/mL	
20) Benzo(k)fluoranthene	13.826	252	640m	0.0009 ug/mL	
21) Benzo(a)pyrene	14.234	252	449	0.0007 ug/mL	89
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3024.D
Acq On : 3 Jul 2013 16:37
Operator : jfi
Sample : a303499-14
Misc :
ALS Vial : 24 Sample Multiplier: 1

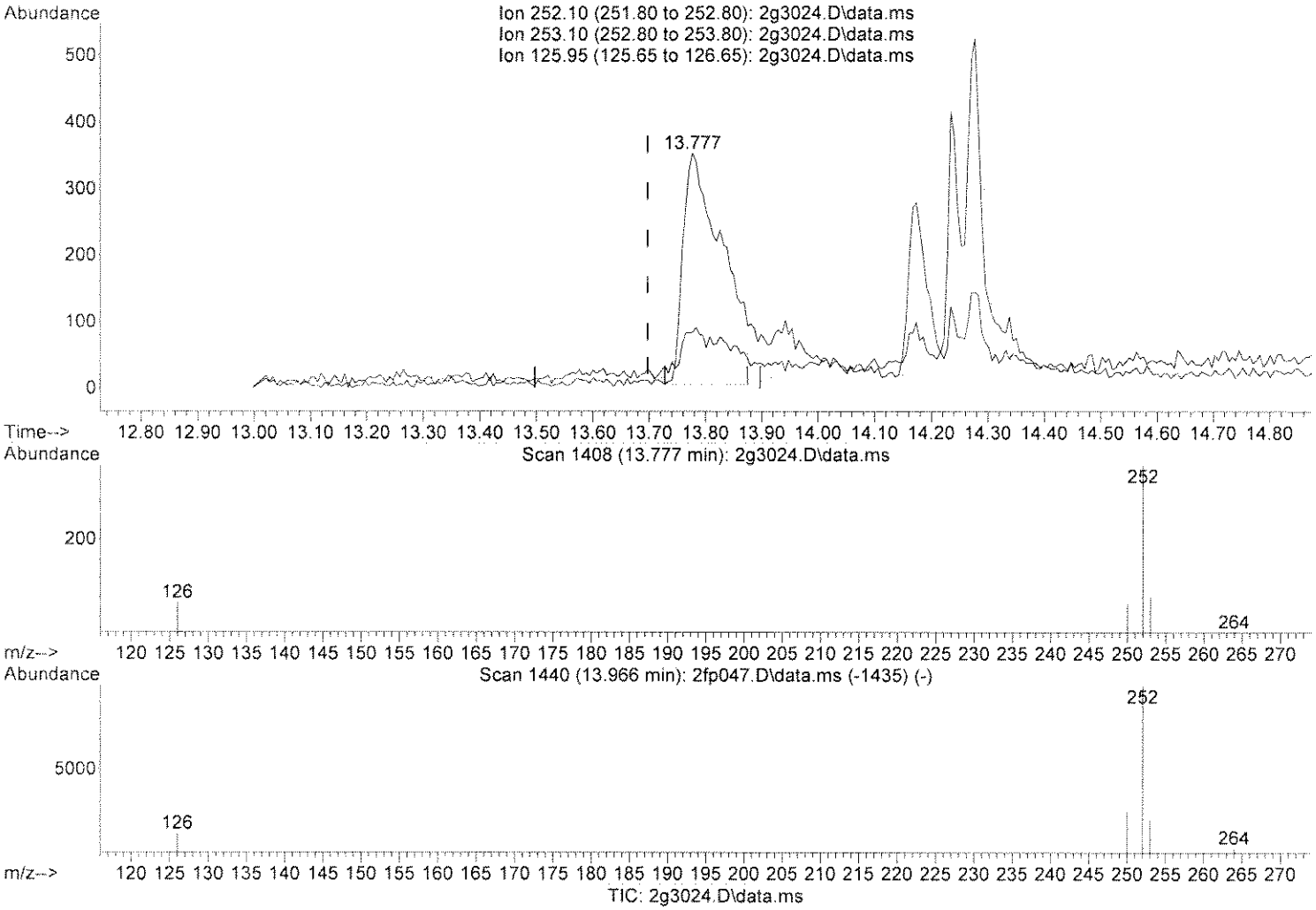
Quant Time: Jul 03 17:07:36 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3024.D
Acq On : 3 Jul 2013 16:37
Operator : jfi
Sample : a303499-14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 03 17:06:41 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(19) Benzo(b)fluoranthene

13.777min (+0.079) 0.00 ug/mL

response 1681

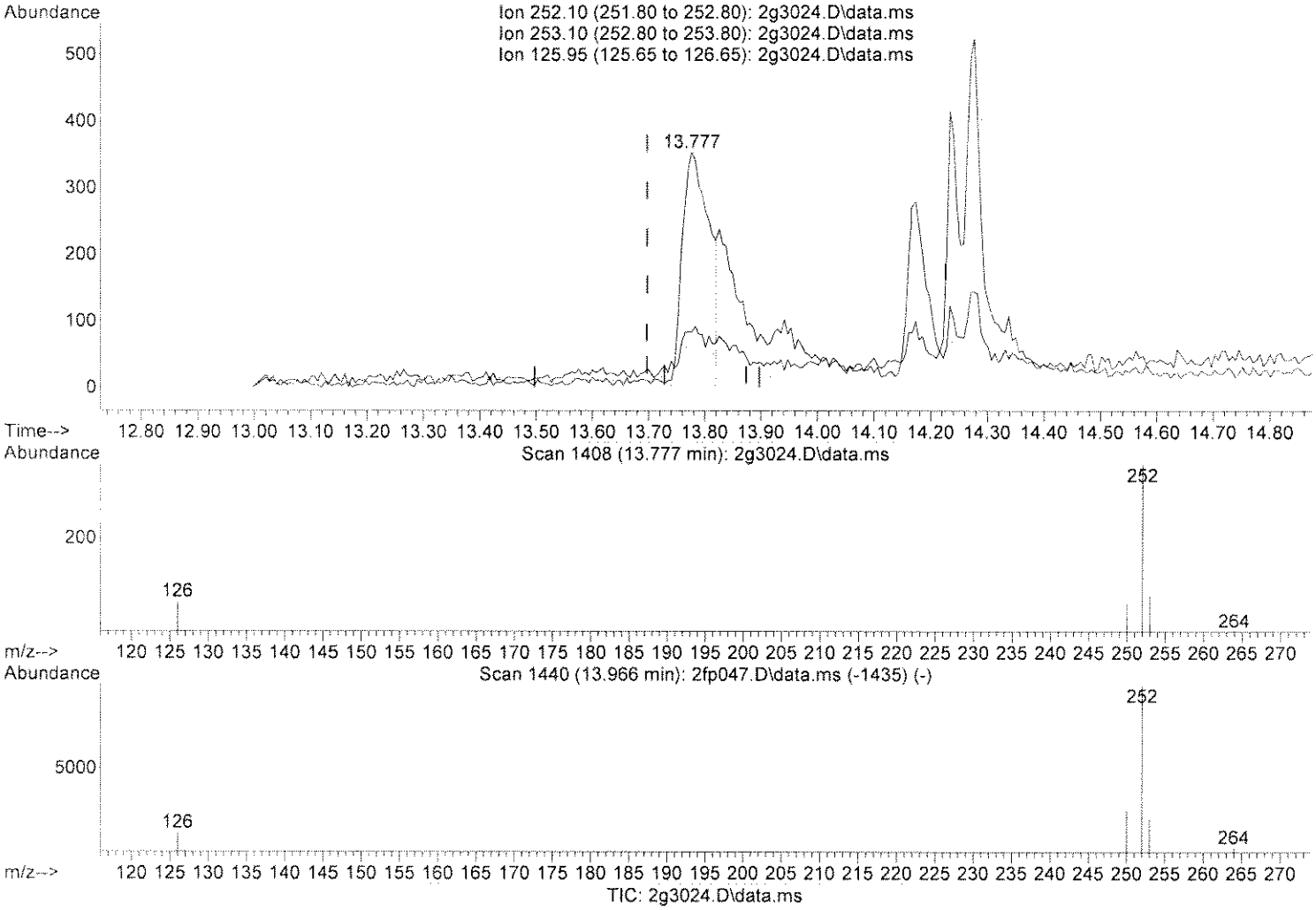
Ion	Exp%	Act%
252.10	100	100
253.10	21.50	13.44
125.95	17.10	13.44
0.00	0.00	0.00

Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Hung integration
[ ] Baseline drop for split peaks
[ ] Other:
Review by/date: 7.3.13
Review by/date: 7/5/13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3024.D
Acq On : 3 Jul 2013 16:37
Operator : jfi
Sample : a303499-14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 03 17:06:41 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(19) Benzo(b)fluoranthene

13.777min (+0.079) 0.00 ug/mL m

response 1168

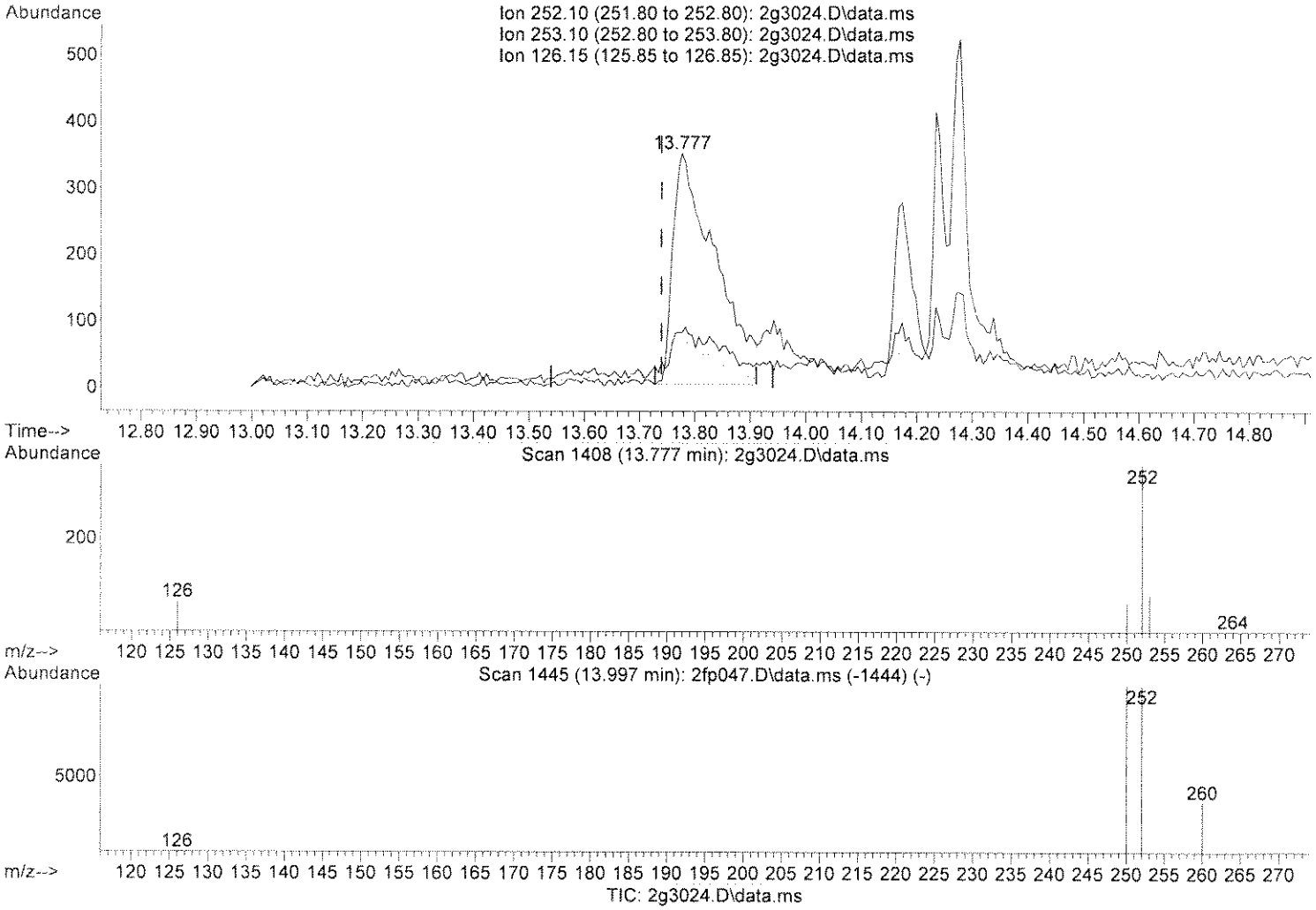
Ion	Exp%	Act%
252.10	100	100
253.10	21.50	19.35
125.95	17.10	19.35
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[✓] Poor integration (bad baseline, baseline selection)
[ ] Incorrect peak selected/peak not found
[ ] Noise integration
[ ] Baseline drop by salt peaks
[ ] Other:
Review by/date: [illegible]
Review by/date: 7-24-13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3024.D
Acq On : 3 Jul 2013 16:37
Operator : jfi
Sample : a303499-14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 03 17:06:41 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.777min (+0.037) 0.00 ug/mL

response 1842

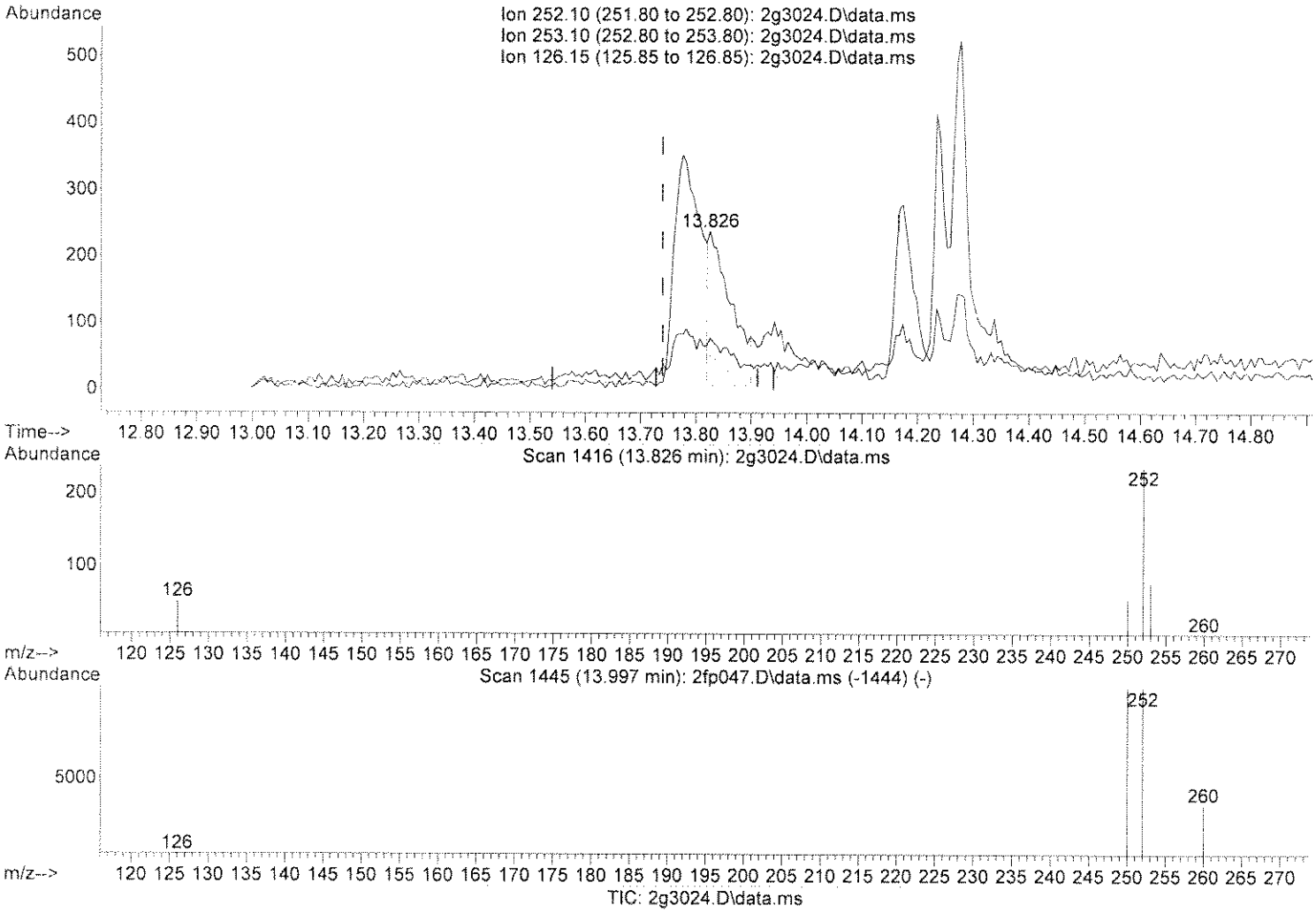
Ion	Exp%	Act%
252.10	100	100
253.10	21.70	12.27
126.15	19.30	12.27
0.00	0.00	0.00

Select one:
[ ] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor [illegible] peak shape, baseline [illegible]
[ ] Incorrect [illegible] peak not found
[ ] Human [illegible]
[ ] Baseline [illegible] for split peaks
[ ] Other:
Review by/Init: [illegible]
Review by/Date: [illegible]

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3024.D
Acq On : 3 Jul 2013 16:37
Operator : jfi
Sample : a303499-14
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 03 17:06:41 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.826min (+0.085) 0.00 ug/mL m

response 640

Ion	Exp%	Act%
252.10	100	100
253.10	21.70	35.31
126.15	19.30	35.31
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select action for manual integration:
[✓] Set up / Turn peak tailing, baseline settings
[ ] Insert / Mark / Move / Delete peak and Lend
[ ] Name / [illegible]
[ ] Baseline / Split / Split peaks
[ ] Other
Review by/date: [illegible] 7-3-13
Review by/date: [illegible]

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3025.D
Acq On : 3 Jul 2013 16:58
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 03 17:18:08 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

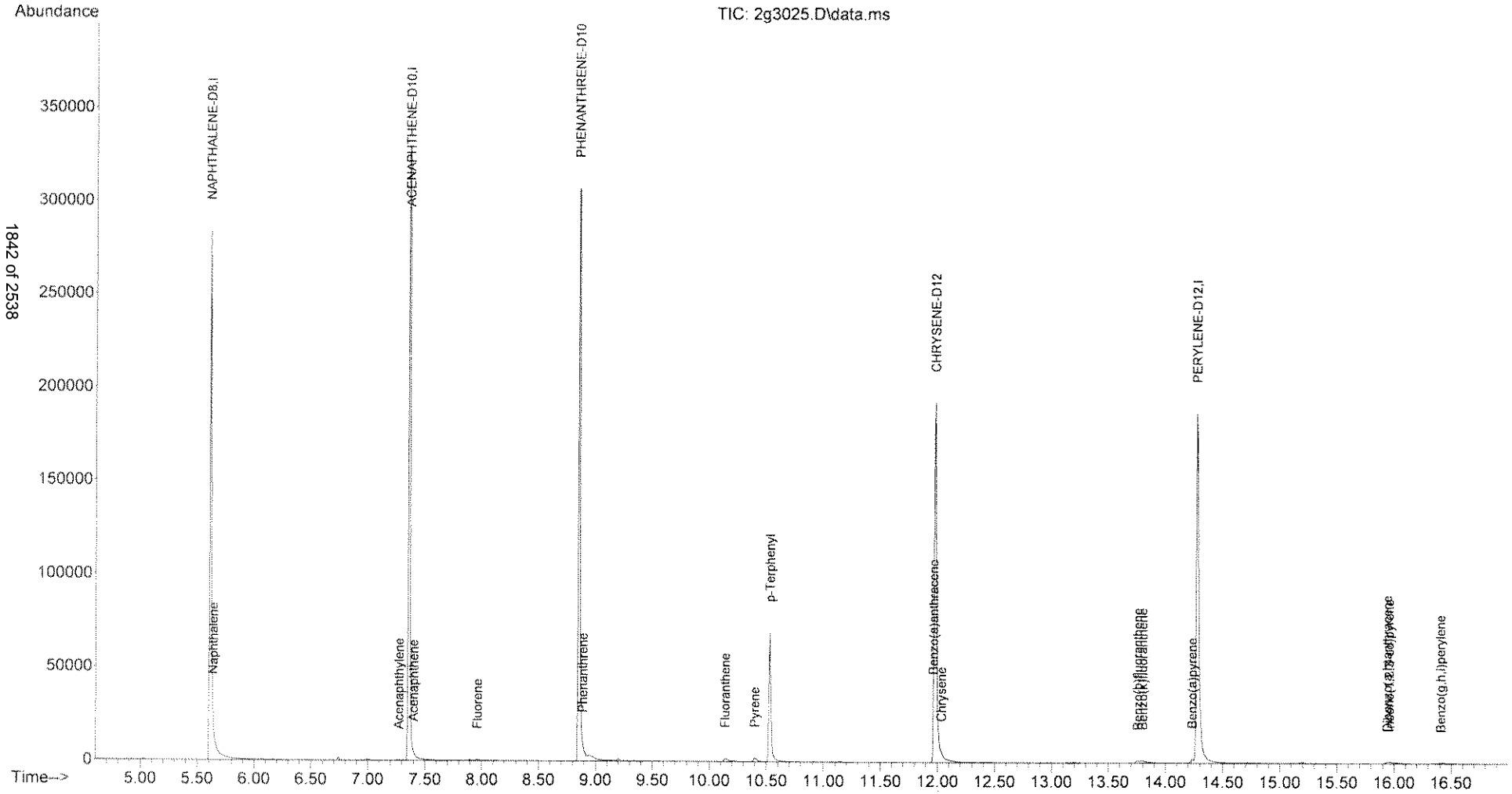
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.610	136	301701	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.363	164	182726	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.848	188	293521	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	280682	0.50 ug/mL	0.00
18) PERYLENE-D12	14.275	264	252493	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.637	128	311	0.0004 ug/mL	98
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	7.273	152	296	0.0003 ug/mL	85
7) Acenaphthene	7.401	154	242	0.0005 ug/mL	79
8) Fluorene	7.961	166	639	0.0009 ug/mL	83
10) Phenanthrene	8.888	178	2422	0.0029 ug/mL	95
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	10.138	202	2984	0.0031 ug/mL	90
13) Pyrene	10.396	202	3306	0.0034 ug/mL	85
14) p-Terphenyl	10.529	230	59903	0.0773 ug/mL	99
16) Benzo(a)anthracene	11.963	228	3144	0.0031 ug/mL	93
17) Chrysene	12.034	228	2725	0.0034 ug/mL	88
19) Benzo(b)fluoranthene	13.757	252	1777	0.0025 ug/mL	96
20) Benzo(k)fluoranthene	13.800	252	3081m	0.0042 ug/mL	
21) Benzo(a)pyrene	14.232	252	1842	0.0029 ug/mL#	72
22) Indeno(1,2,3-cd)pyrene	15.958	276	1730	0.0021 ug/mL	80
23) Dibenzo(a,h)anthracene	15.938	278	1490	0.0023 ug/mL	77
24) Benzo(g,h,i)perylene	16.407	276	1873m	0.0026 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3025.D
Acq On : 3 Jul 2013 16:58
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 25 Sample Multiplier: 1

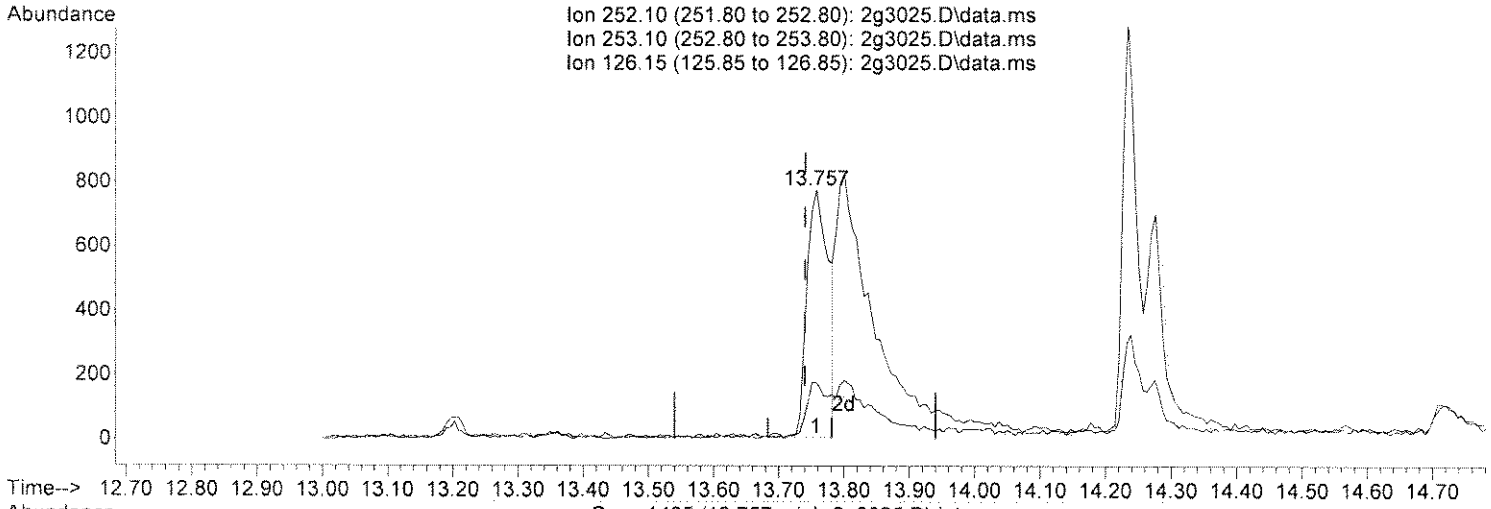
Quant Time: Jul 03 17:18:08 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

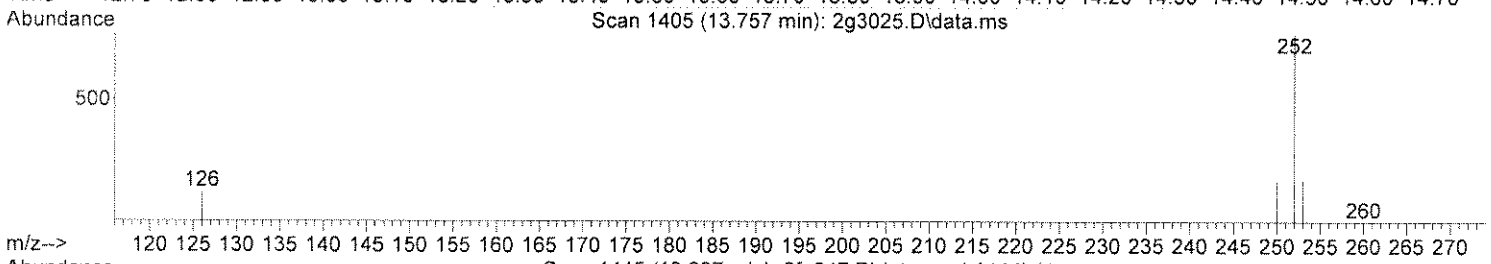


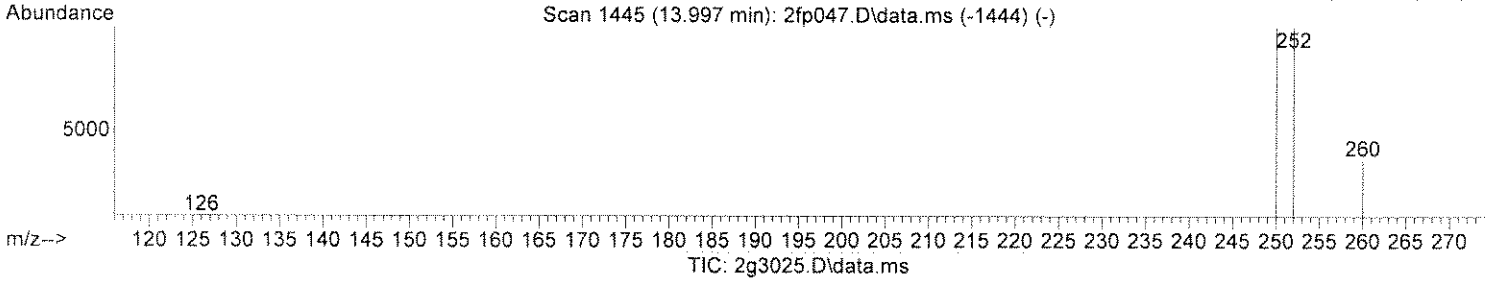
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3025.D
Acq On : 3 Jul 2013 16:58
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 03 17:17:07 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration







TIC: 2g3025.D\data.ms

(20) Benzo(k)fluoranthene

13.757min (+0.017) 0.00 ug/mL

response 1777

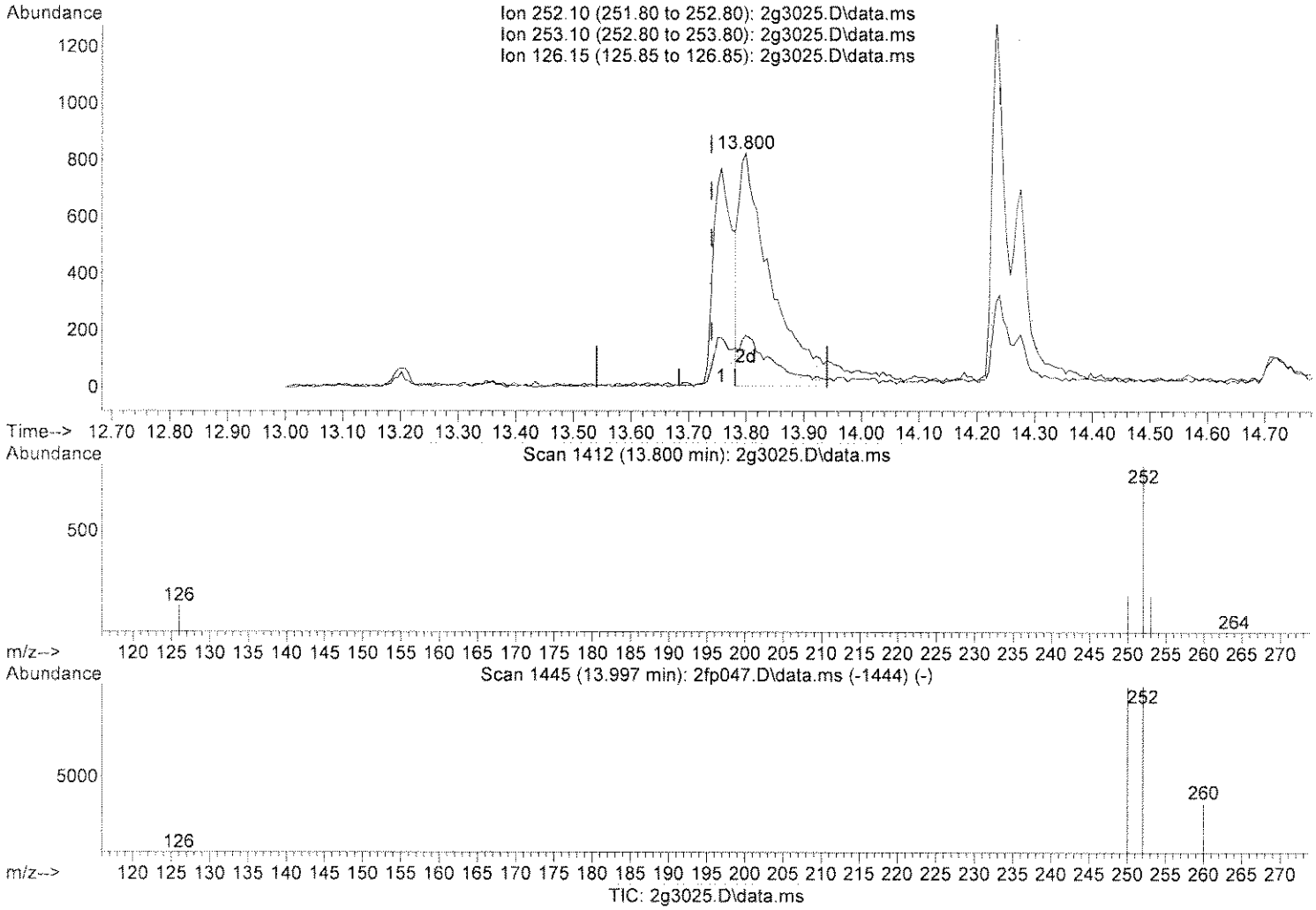
Ion	Exp%	Act%
252.10	100	100
253.10	21.70	20.20
126.15	19.30	15.14
0.00	0.00	0.00

Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Human error
[ ] Baseline [illegible] for split peaks
[ ] Other
Review by: [illegible]
Review by date: 7/1/13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3025.D
Acq On : 3 Jul 2013 16:58
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 03 17:17:07 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.800min (+0.059) 0.00 ug/mL m

response 3081

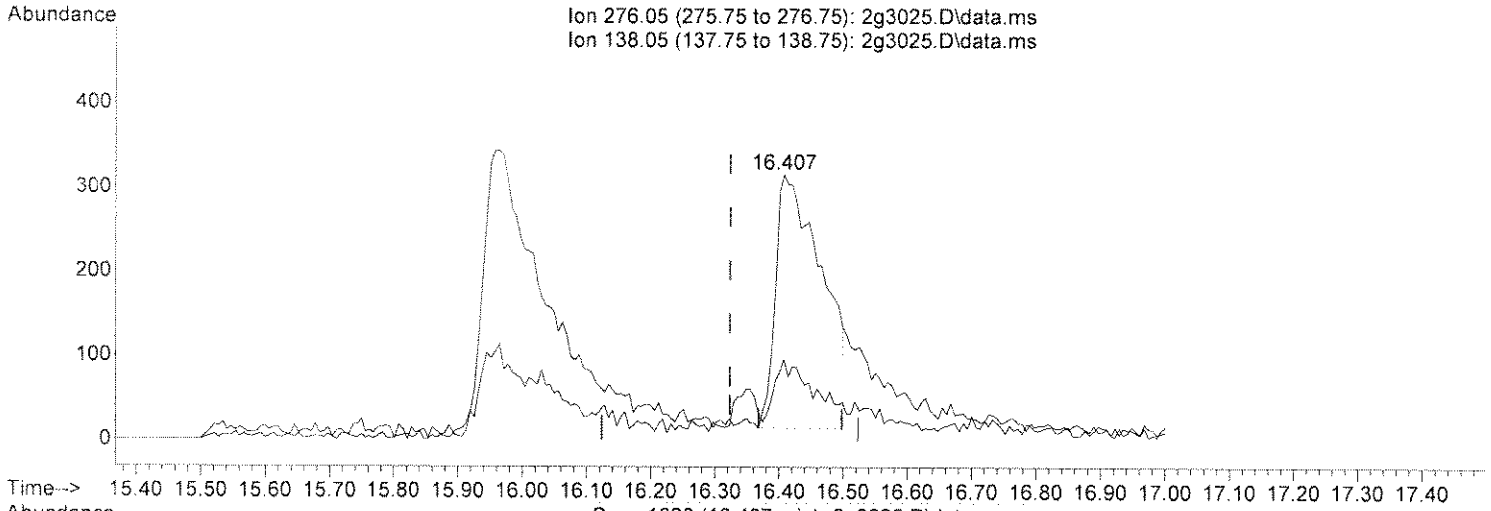
Ion	Exp%	Act%
252.10	100	100
253.10	21.70	11.65
126.15	19.30	8.73
0.00	0.00	0.00

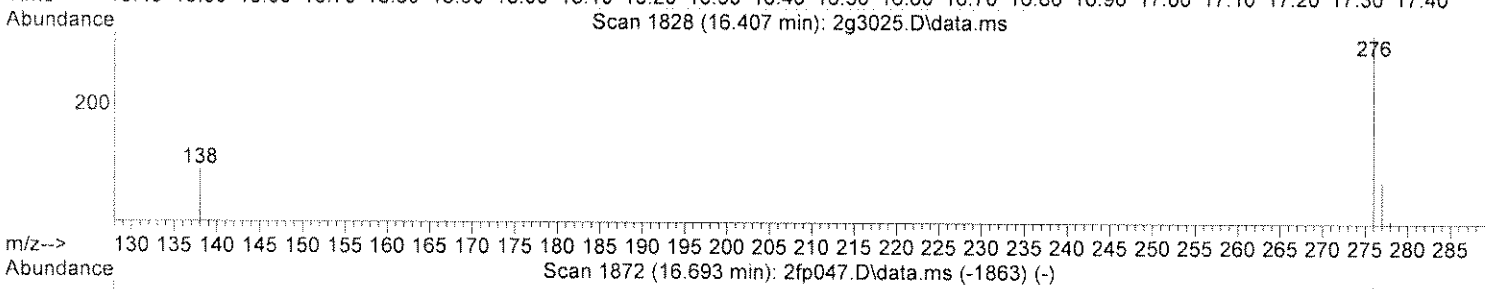
Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peaks not found
[ ] Human error
[ ] Baseline drop for split peaks
[ ] Other:
Review by/initials: [illegible]
Review by/date: 7/15/13

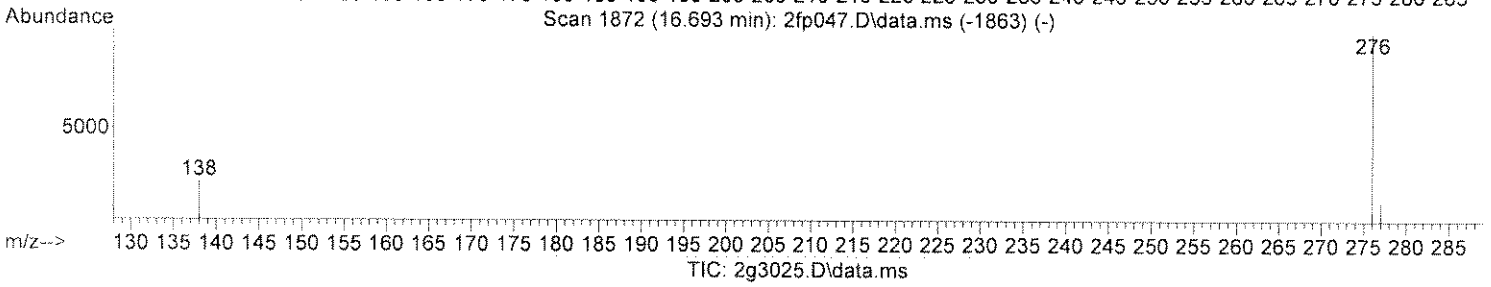
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3025.D
Acq On : 3 Jul 2013 16:58
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 03 17:17:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration







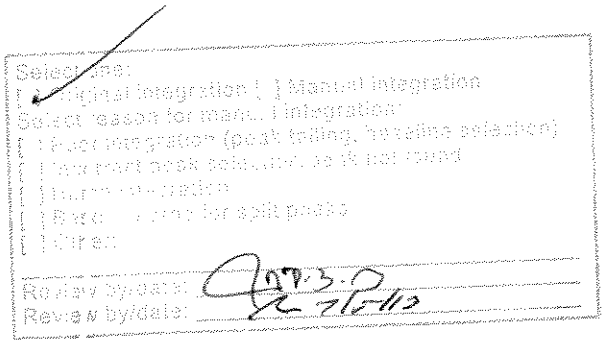
TIC: 2g3025.D\data.ms

(24) Benzo(g,h,i)perylene

16.407min (+0.084) 0.00 ug/mL

response 1496

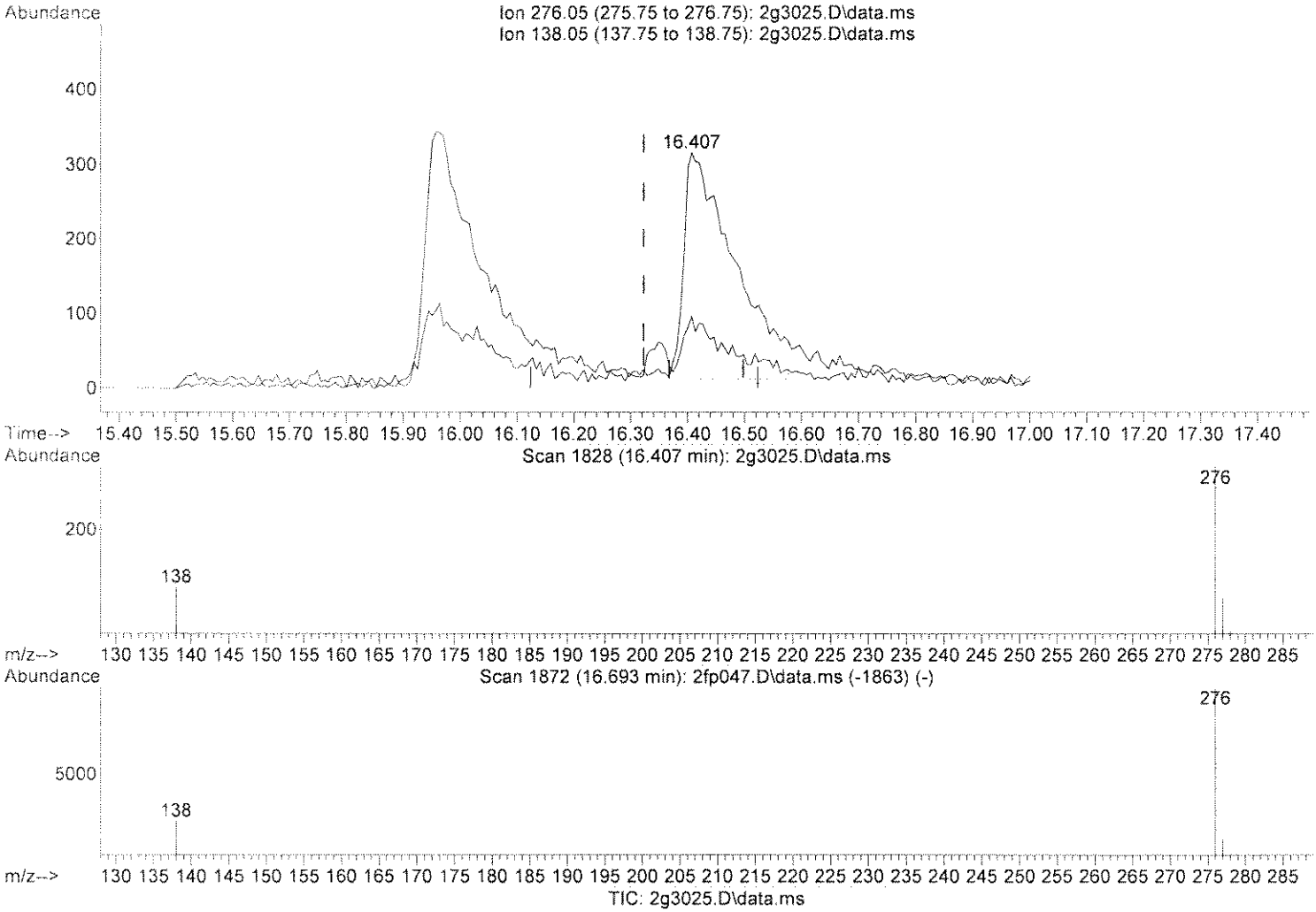
Ion	Exp%	Act%
276.05	100	100
138.05	29.10	19.25
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3025.D
Acq On : 3 Jul 2013 16:58
Operator : jfi
Sample : a303499-15
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 03 17:17:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(24) Benzo(g,h,i)perylene

16.407min (+0.084) 0.00 ug/mL m

response 1873

Ion	Exp%	Act%
276.05	100	100
138.05	29.10	15.38
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Bad integration (peak tailing, baseline problem)
[ ] Incorrect peak selection/peak not found
[ ] Human error
[ ] Baseline drop for split peaks
[ ] Other
Review by/date: 7.3.13
Review by/date: 7/5/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3026.D
Acq On : 3 Jul 2013 17:20
Operator : jfi
Sample : a303499-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 03 18:40:28 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

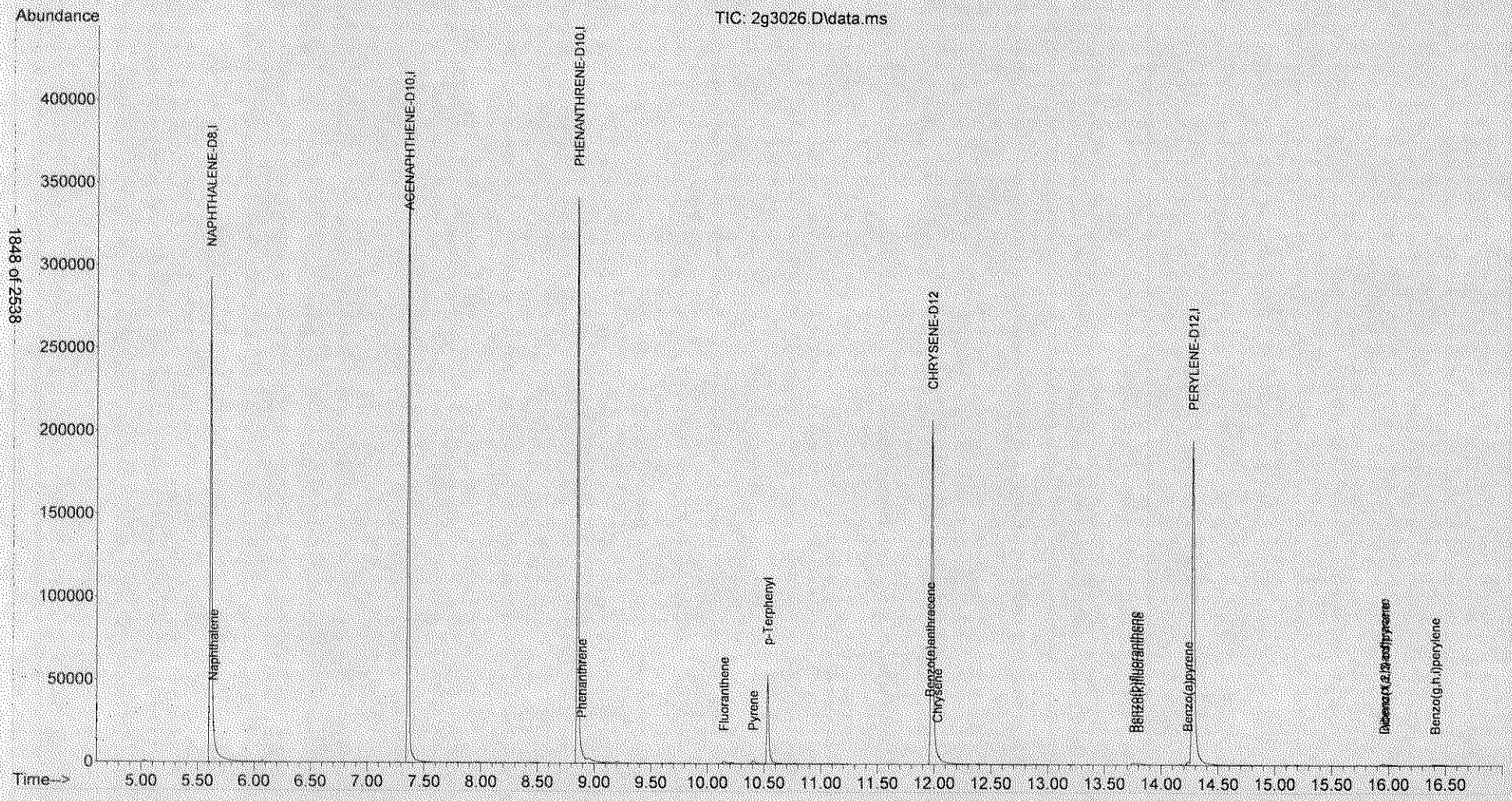
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.609	136	316447	0.50	ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	194327	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	307564	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.979	240	295019	0.50	ug/mL	0.00
18) PERYLENE-D12	14.276	264	262317	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.636	128	219	0.0003	ug/mL	86
3) 2-Methylnaphthalene	0.000		0	N.D.	d	
4) 1-Methylnaphthalene	0.000		0	N.D.	d	
6) Acenaphthylene	0.000		0	N.D.	d	
7) Acenaphthene	0.000		0	N.D.	d	
8) Fluorene	0.000		0	N.D.	d	
10) Phenanthrene	8.889	178	1931	0.0022	ug/mL	96
11) Anthracene	0.000		0	N.D.	d	
12) Fluoranthene	10.146	202	2727	0.0027	ug/mL	84
13) Pyrene	10.404	202	2824	0.0028	ug/mL	84
14) p-Terphenyl	10.529	230	47579	0.0586	ug/mL	100
16) Benzo(a)anthracene	11.963	228	2759	0.0025	ug/mL	91
17) Chrysene	12.028	228	2359	0.0028	ug/mL	89
19) Benzo(b)fluoranthene	13.758	252	1774	0.0024	ug/mL	94
20) Benzo(k)fluoranthene	13.801	252	2648m	0.0035	ug/mL	
21) Benzo(a)pyrene	14.234	252	1614	0.0024	ug/mL#	71
22) Indeno(1,2,3-cd)pyrene	15.965	276	1496	0.0018	ug/mL	65
23) Dibenzo(a,h)anthracene	15.959	278	1167	0.0017	ug/mL	77
24) Benzo(g,h,i)perylene	16.408	276	1719	0.0023	ug/mL	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3026.D
Acq On : 3 Jul 2013 17:20
Operator : jfi
Sample : a303499-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

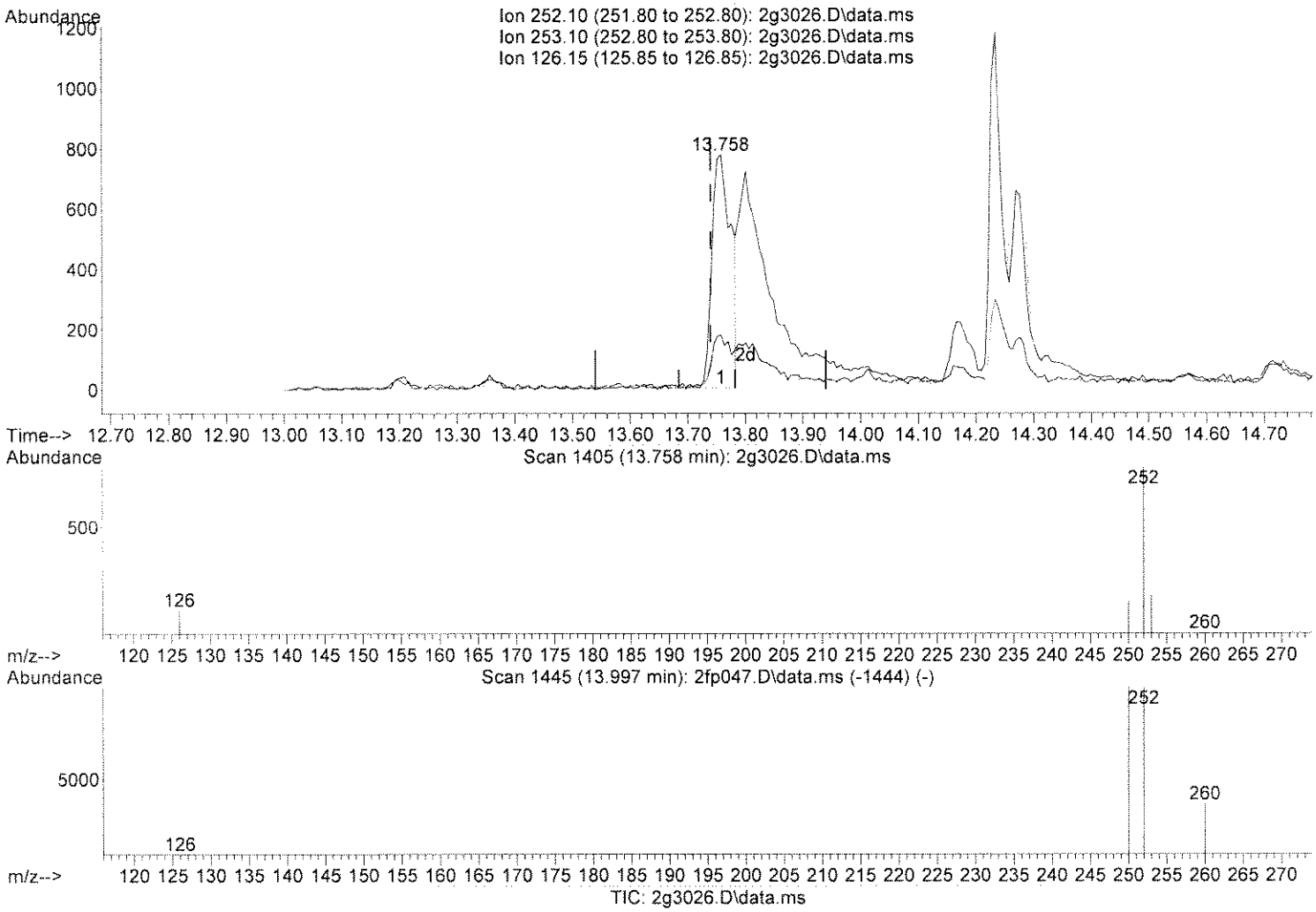
Quant Time: Jul 03 18:40:28 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3026.D
Acq On : 3 Jul 2013 17:20
Operator : jfi
Sample : a303499-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 03 18:39:31 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.758min (+0.018) 0.00 ug/mL

response 1774

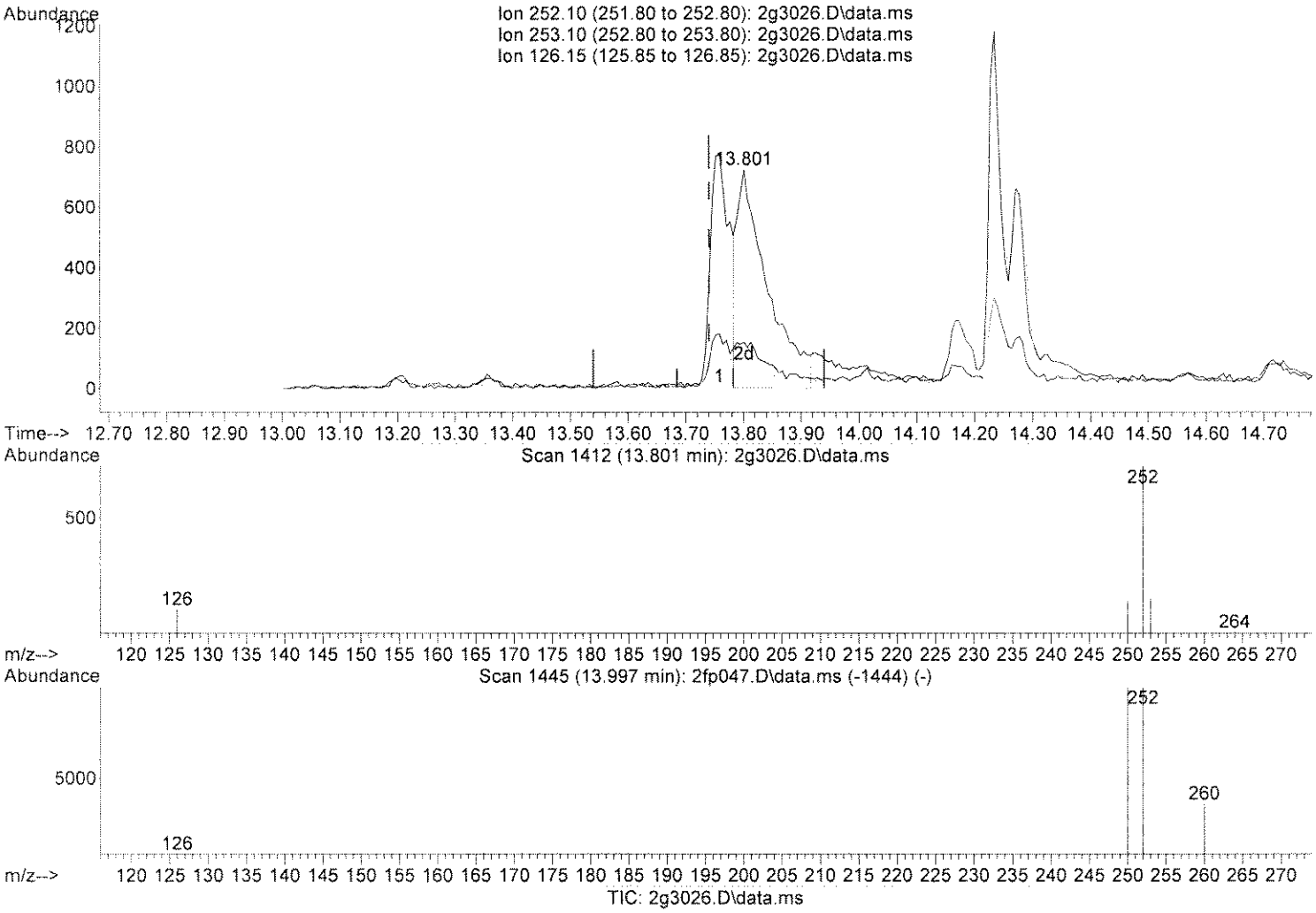
Ion	Exp%	Act%
252.10	100	100
253.10	21.70	20.69
126.15	19.30	12.51
0.00	0.00	0.00

Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Peak recognition (peak not found, baseline on noise)
[ ] Incorrect peak area (peak found, area incorrect)
[ ] Retention time shift
[ ] Baseline drop for split peaks
[ ] Other:
Review by/date: 2g73.D 7/2/13
Review by/date:

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3026.D
Acq On : 3 Jul 2013 17:20
Operator : jfi
Sample : a303499-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 03 18:39:31 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.801min (+0.061) 0.00 ug/mL m

response 2648

Ion	Exp%	Act%
252.10	100	100
253.10	21.70	13.86
126.15	19.30	8.38
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor line shape/peak tailing, baseline selection
[ ] Incorrect ... or peak not found
[ ] Incorrect "m"
[ ] Shoulders, and or split peaks
[ ] Other:
Review by/initials: 3.0
Review by/date: 7/15/13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3027.D
Acq On : 3 Jul 2013 17:42
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 03 18:42:43 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

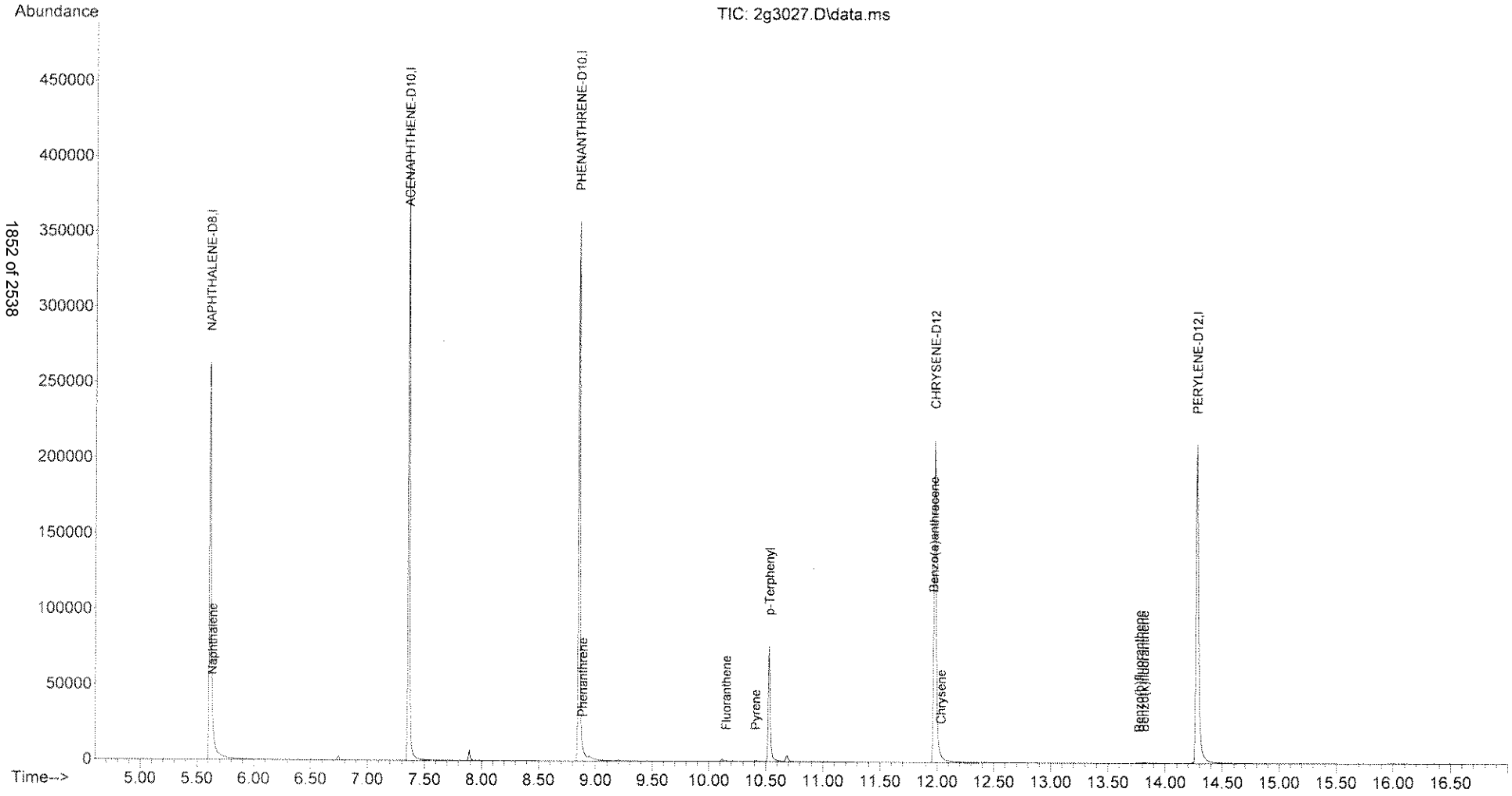
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.614	136	323746	0.50 ug/mL	0.03
5) ACENAPHTHENE-D10	7.357	164	196902	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.854	188	317590	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	302758	0.50 ug/mL	0.00
18) PERYLENE-D12	14.277	264	273422	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.635	128	237	0.0003 ug/mL	90
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	8.888	178	578	0.0006 ug/mL	97
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	10.151	202	1037	0.0010 ug/mL	85
13) Pyrene	10.409	202	1081	0.0010 ug/mL	89
14) p-Terphenyl	10.528	230	65429	0.0780 ug/mL	100
16) Benzo(a)anthracene	11.968	228	1409	0.0008 ug/mL	87
17) Chrysene	12.033	228	823	0.0009 ug/mL	78
19) Benzo(b)fluoranthene	13.771	252	472	0.0006 ug/mL	93
20) Benzo(k)fluoranthene	13.813	252	942m	0.0012 ug/mL	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3027.D
Acq On : 3 Jul 2013 17:42
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

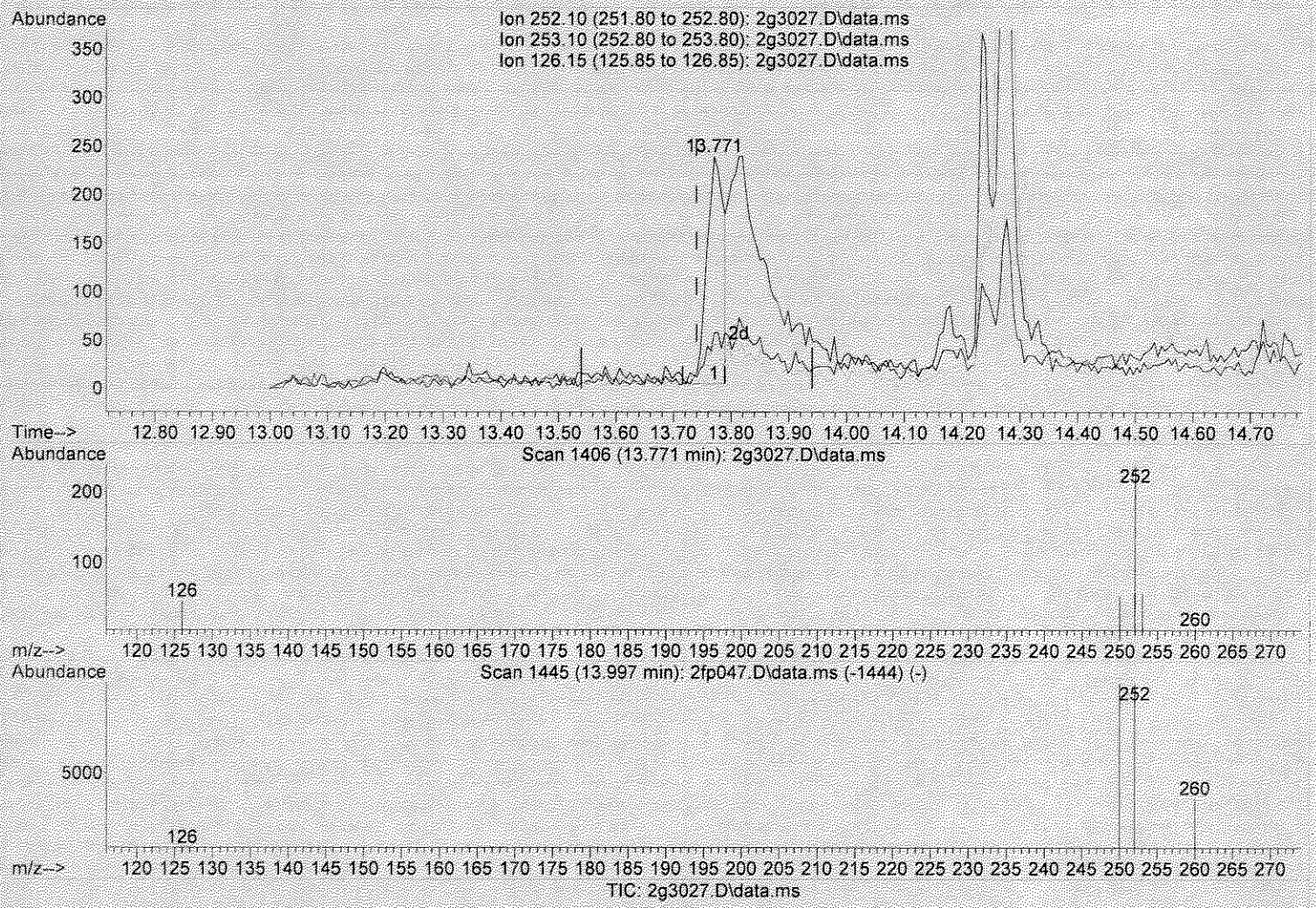
Quant Time: Jul 03 18:42:43 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3027.D
Acq On : 3 Jul 2013 17:42
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 03 18:39:33 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.771min (+0.030) 0.00 ug/mL

response 472

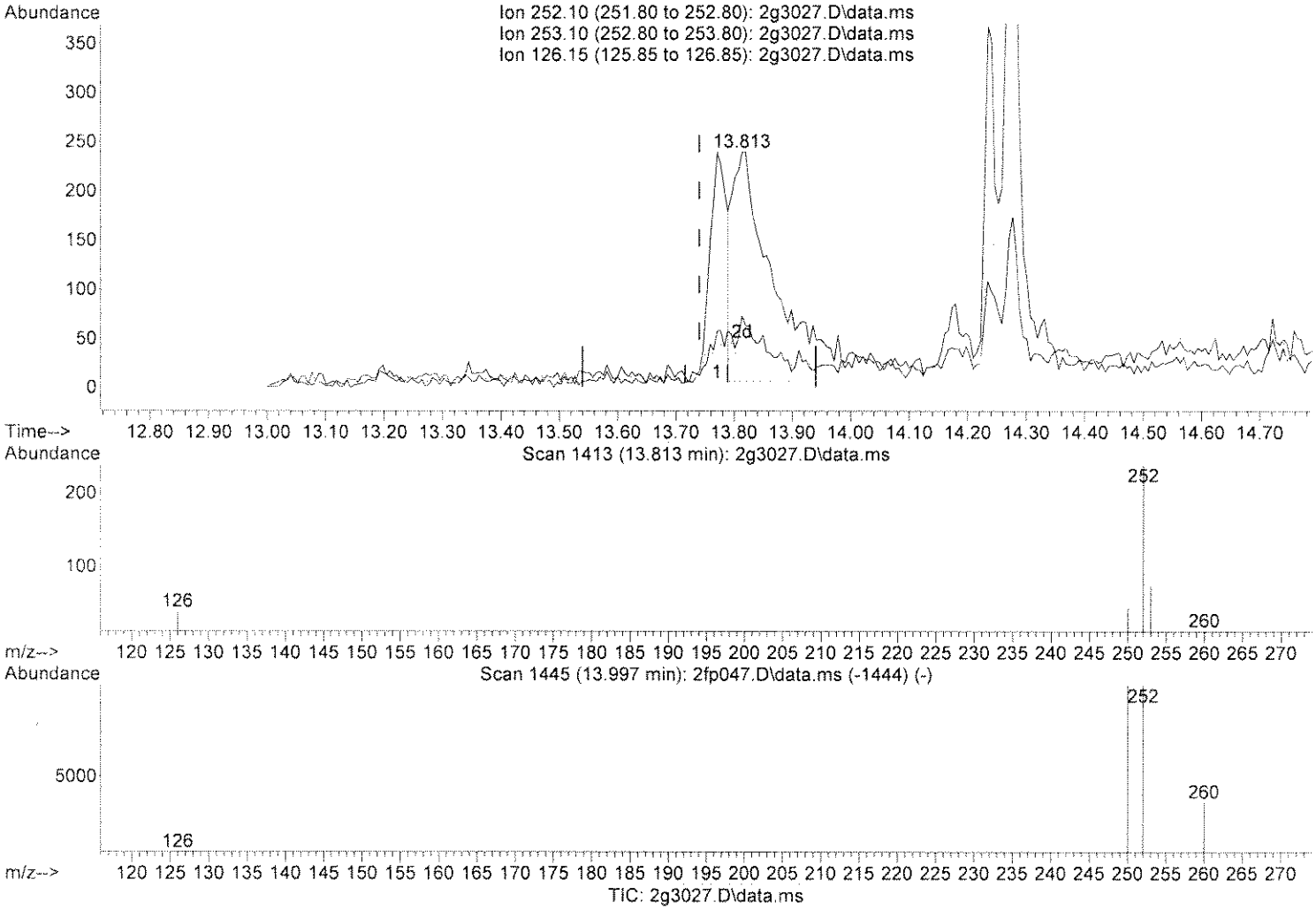
Ion	Exp%	Act%
252.10	100	100
253.10	21.70	21.19
126.15	19.30	23.94
0.00	0.00	0.00

Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] Other:
Review by/date: JFJ 3.3
Review by/date: JS 7/15/13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3027.D
Acq On : 3 Jul 2013 17:42
Operator : jfi
Sample : a303499-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 03 18:39:33 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

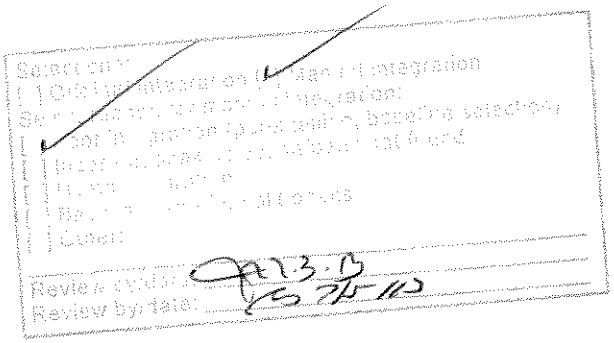


(20) Benzo(k)fluoranthene

13.813min (+0.073) 0.00 ug/mL m

response 942

Ion	Exp%	Act%
252.10	100	100
253.10	21.70	10.62
126.15	19.30	12.00
0.00	0.00	0.00



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3028.D
Acq On : 3 Jul 2013 18:03
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 03 18:46:04 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

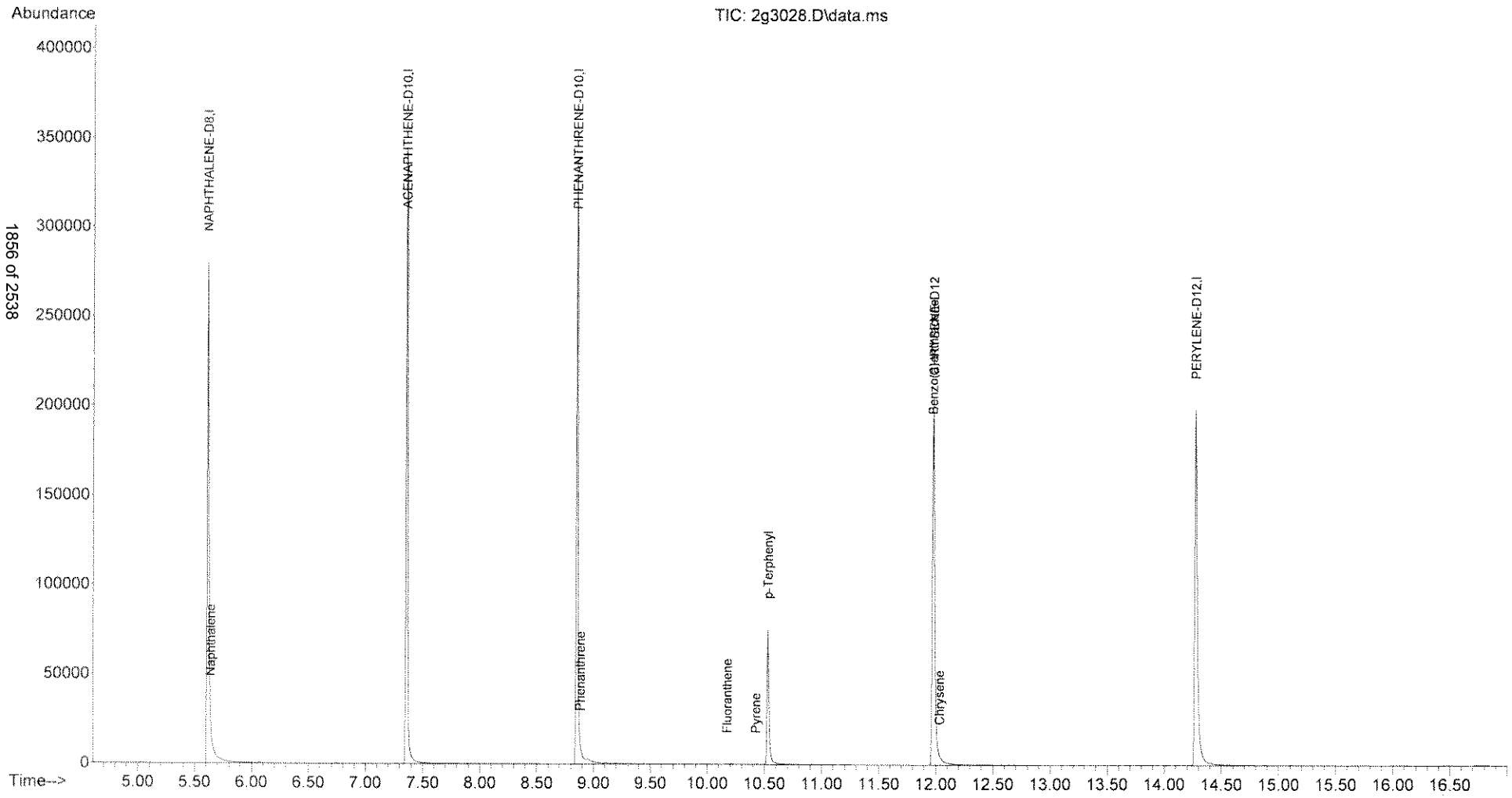
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.609	136	305452	0.50 ug/mL	0.02
5) ACENAPHTHENE-D10	7.356	164	187514	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	299835	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.978	240	292699	0.50 ug/mL	0.00
18) PERYLENE-D12	14.277	264	264743	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.636	128	203	0.0003 ug/mL	84
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	8.882	178	274	0.0003 ug/mL	70
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	10.172	202	317	0.0003 ug/mL	94
13) Pyrene	10.423	202	325	0.0003 ug/mL#	59
14) p-Terphenyl	10.529	230	64706	0.0818 ug/mL	100
16) Benzo(a)anthracene	11.973	228	972	0.0003 ug/mL	81
17) Chrysene	12.033	228	275	0.0003 ug/mL	95
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3028.D
Acq On : 3 Jul 2013 18:03
Operator : jfi
Sample : a303499-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 03 18:46:04 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3029.D
Acq On : 3 Jul 2013 18:25
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 03 18:47:07 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

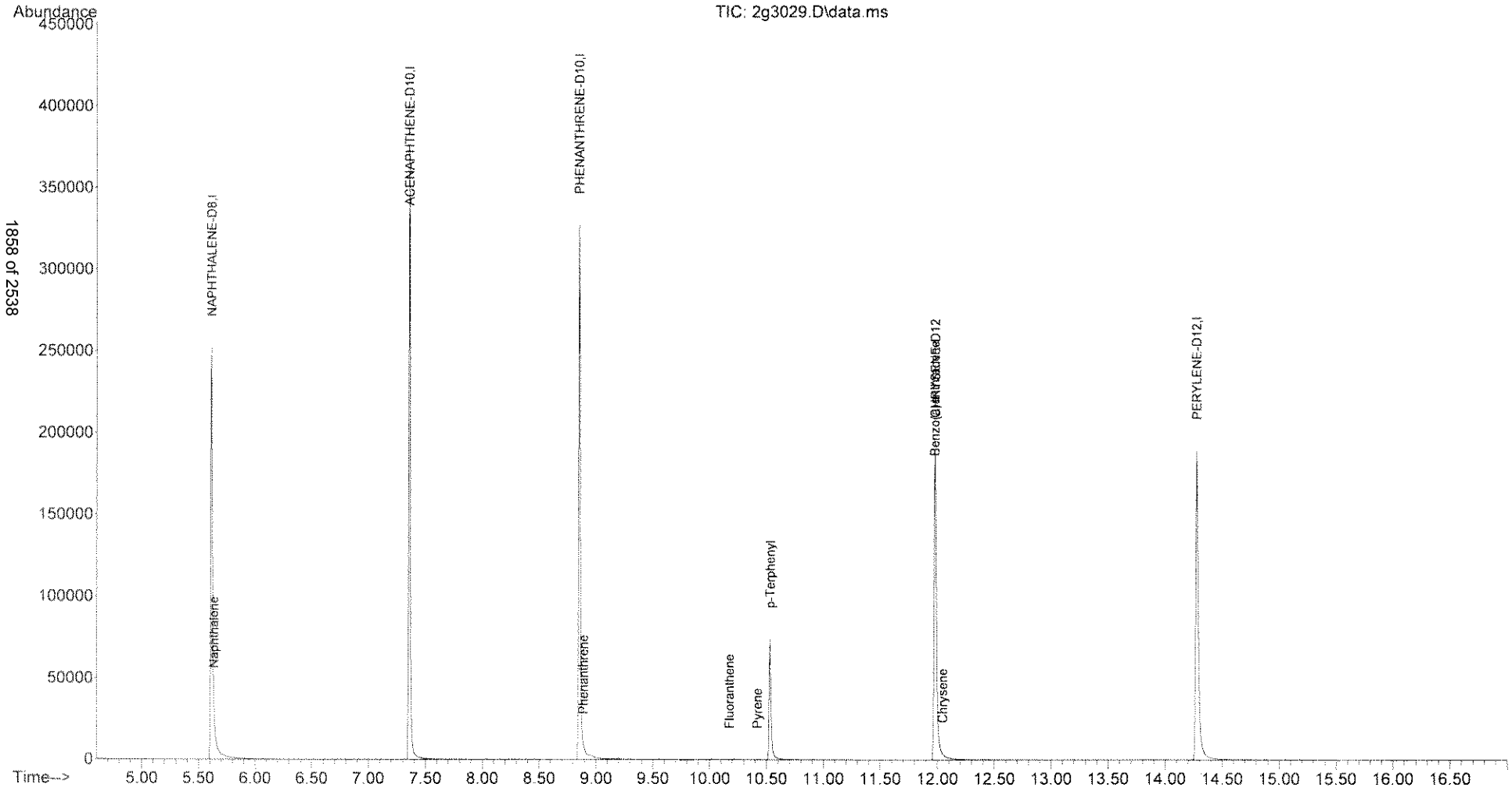
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.614	136	304238	0.50 ug/mL	0.03
5) ACENAPHTHENE-D10	7.357	164	184665	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.849	188	290482	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.980	240	279421	0.50 ug/mL	0.00
18) PERYLENE-D12	14.277	264	253387	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.634	128	165	0.0002 ug/mL	88
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	8.889	178	377	0.0005 ug/mL	94
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	10.172	202	500	0.0005 ug/mL	80
13) Pyrene	10.417	202	463	0.0005 ug/mL	98
14) p-Terphenyl	10.530	230	62846	0.0820 ug/mL	99
16) Benzo(a)anthracene	11.974	228	1026	0.0005 ug/mL	80
17) Chrysene	12.045	228	443	0.0006 ug/mL	83
19) Benzo(b)fluoranthene	0.000		0	N.D. d	
20) Benzo(k)fluoranthene	0.000		0	N.D. d	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3029.D
Acq On : 3 Jul 2013 18:25
Operator : jfi
Sample : a303499-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 03 18:47:07 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3030.D
Acq On : 3 Jul 2013 18:47
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 03 19:20:29 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

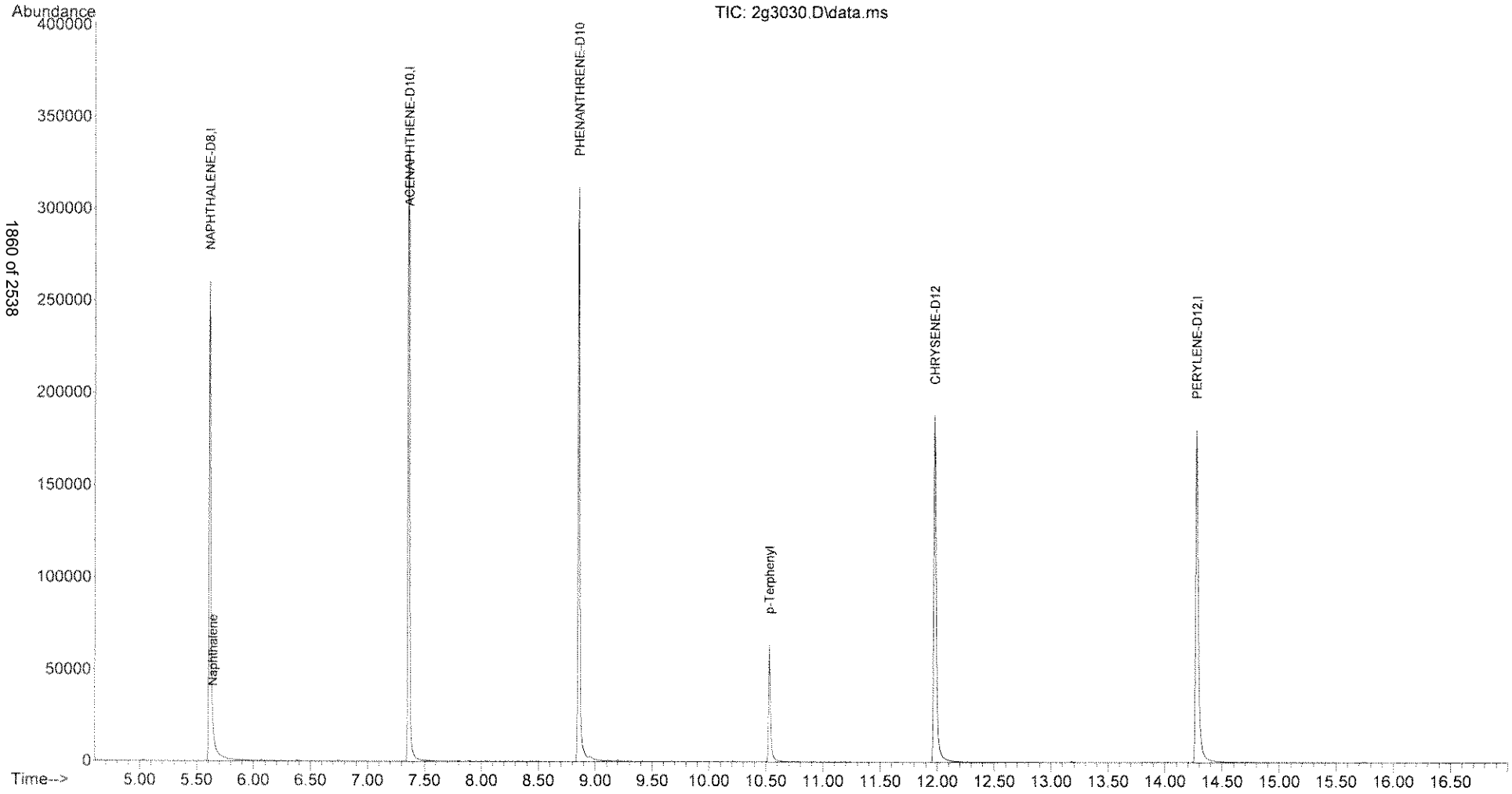
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.614	136	309004	0.50 ug/mL	0.03
5) ACENAPHTHENE-D10	7.364	164	184266	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.855	188	290871	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.978	240	277934	0.50 ug/mL	0.00
18) PERYLENE-D12	14.276	264	250086	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.641	128	169	0.0002 ug/mL	91
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.529	230	55474	0.0723 ug/mL	100
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D.	
20) Benzo(k)fluoranthene	0.000		0	N.D.	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3030.D
Acq On : 3 Jul 2013 18:47
Operator : jfi
Sample : a303499-21
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 03 19:20:29 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3031.D
Acq On : 3 Jul 2013 19:09
Operator : jfi
Sample : a303499-22
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 03 19:27:25 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

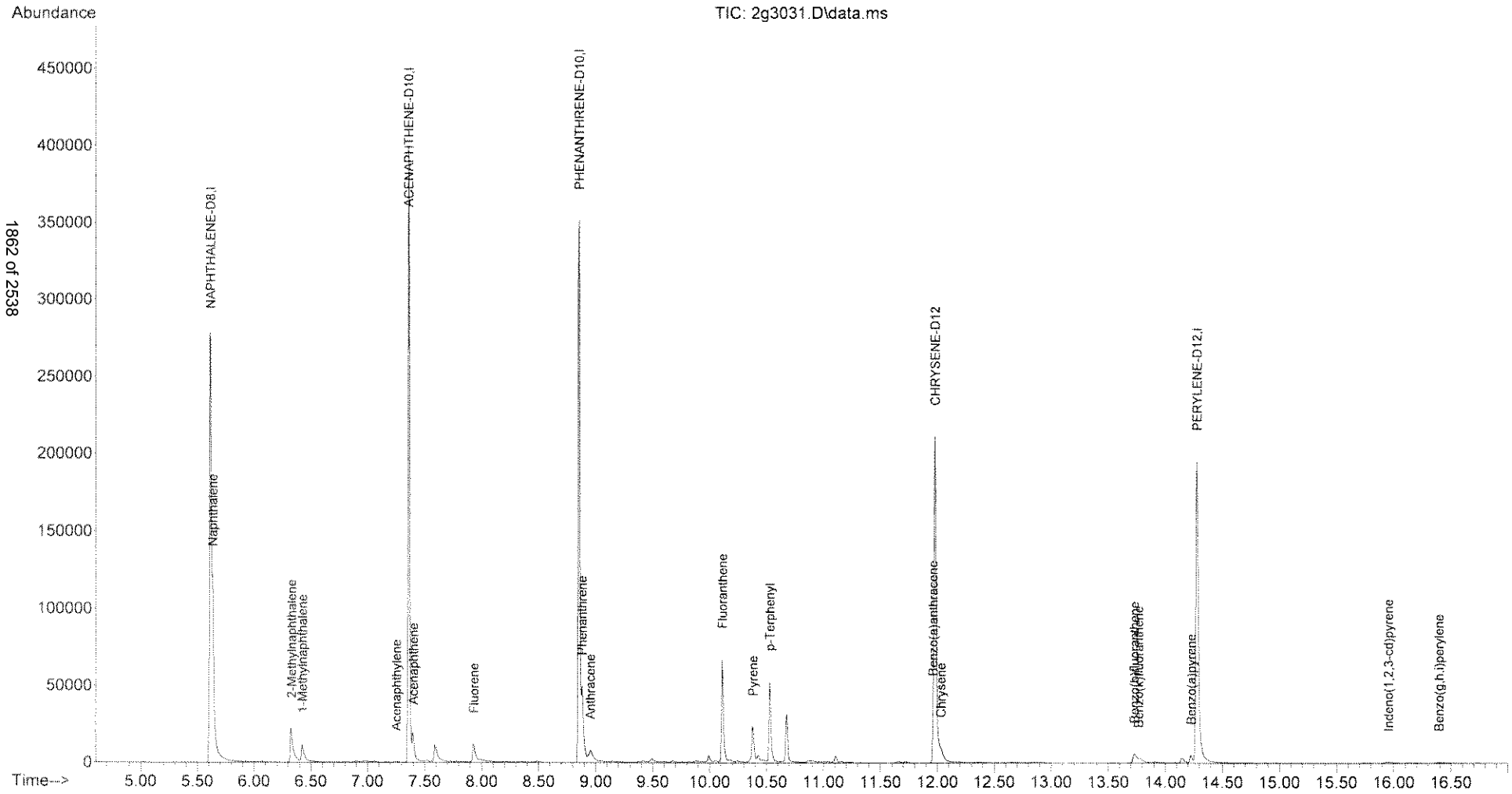
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.614	136	314285	0.50	ug/mL	0.03
5) ACENAPHTHENE-D10	7.357	164	192905	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.854	188	306174	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.978	240	286409	0.50	ug/mL	0.00
18) PERYLENE-D12	14.277	264	258385	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.635	128	119019	0.1480	ug/mL	99
3) 2-Methylnaphthalene	6.329	142	18647	0.0276	ug/mL	96
4) 1-Methylnaphthalene	6.423	142	9659	0.0157	ug/mL	97
6) Acenaphthylene	7.252	152	623	0.0007	ug/mL	67
7) Acenaphthene	7.402	154	6947	0.0130	ug/mL	89
8) Fluorene	7.933	166	10288	0.0144	ug/mL	92
10) Phenanthrene	8.880	178	43955	0.0500	ug/mL	99
11) Anthracene	8.953	178	10534	0.0121	ug/mL	97
12) Fluoranthene	10.111	202	36148	0.0356	ug/mL	94
13) Pyrene	10.382	202	27025	0.0267	ug/mL	85
14) p-Terphenyl	10.528	230	46435	0.0575	ug/mL	100
16) Benzo(a)anthracene	11.962	228	13008	0.0153	ug/mL	99
17) Chrysene	12.033	228	12120	0.0147	ug/mL	96
19) Benzo(b)fluoranthene	13.728	252	8971m	0.0125	ug/mL	
20) Benzo(k)fluoranthene	13.765	252	5328m	0.0072	ug/mL	
21) Benzo(a)pyrene	14.228	252	4536	0.0070	ug/mL	98
22) Indeno(1,2,3-cd)pyrene	15.953	276	1880	0.0023	ug/mL	67
23) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
24) Benzo(g,h,i)perylene	16.396	276	1709	0.0023	ug/mL	63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3031.D
Acq On : 3 Jul 2013 19:09
Operator : jfi
Sample : a303499-22
Misc :
ALS Vial : 31 Sample Multiplier: 1

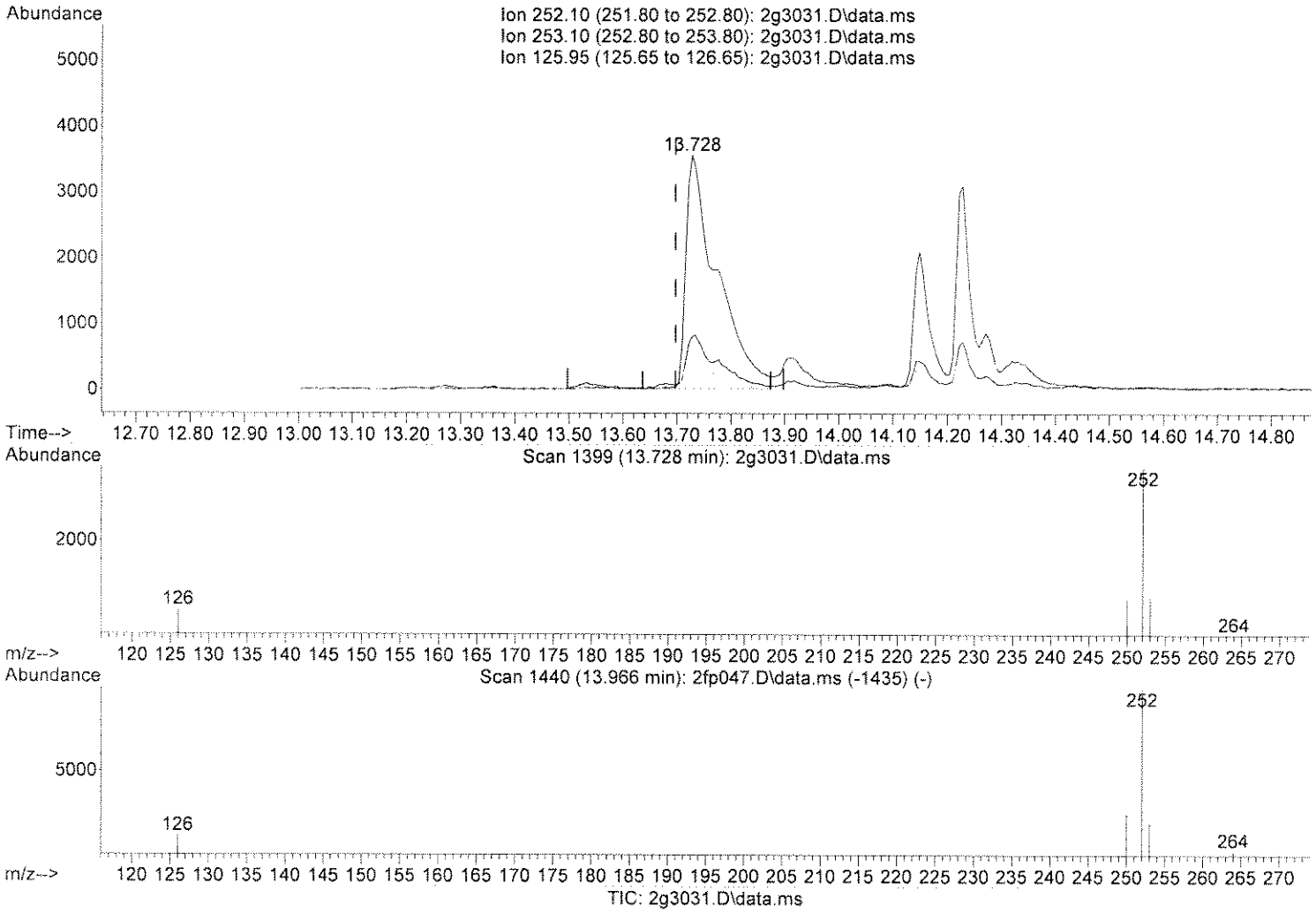
Quant Time: Jul 03 19:27:25 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3031.D
Acq On : 3 Jul 2013 19:09
Operator : jfi
Sample : a303499-22
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 03 19:26:51 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(19) Benzo(b)fluoranthene

13.728min (+0.031) 0.02 ug/mL

response 14257

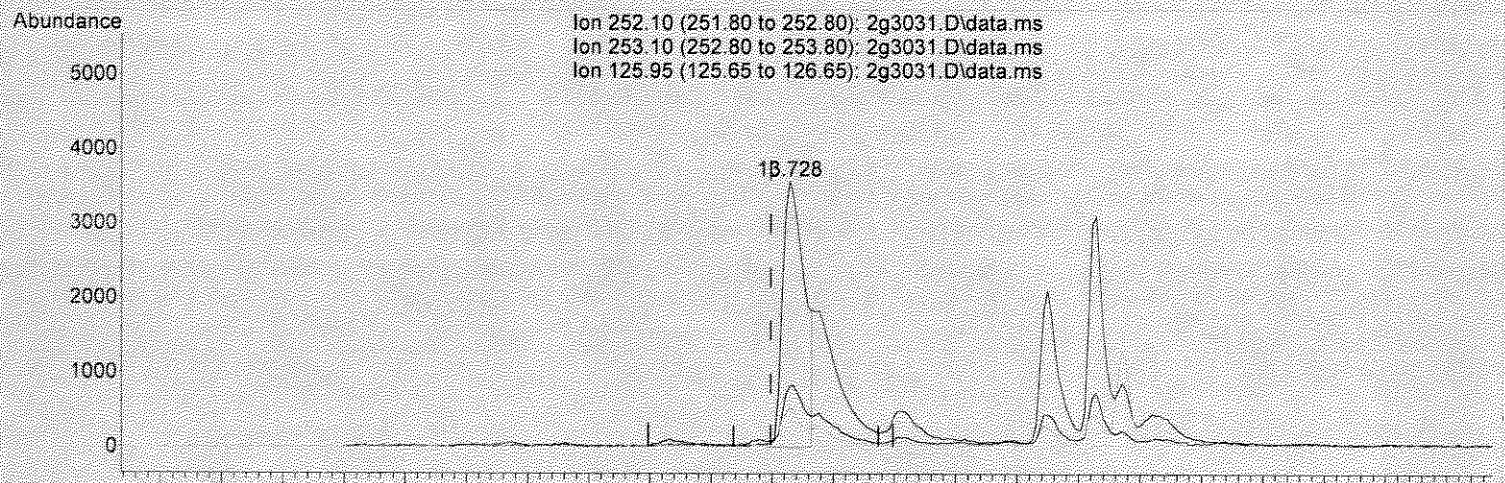
Ion	Exp%	Act%
252.10	100	100
253.10	21.50	12.71
125.95	17.10	9.40
0.00	0.00	0.00

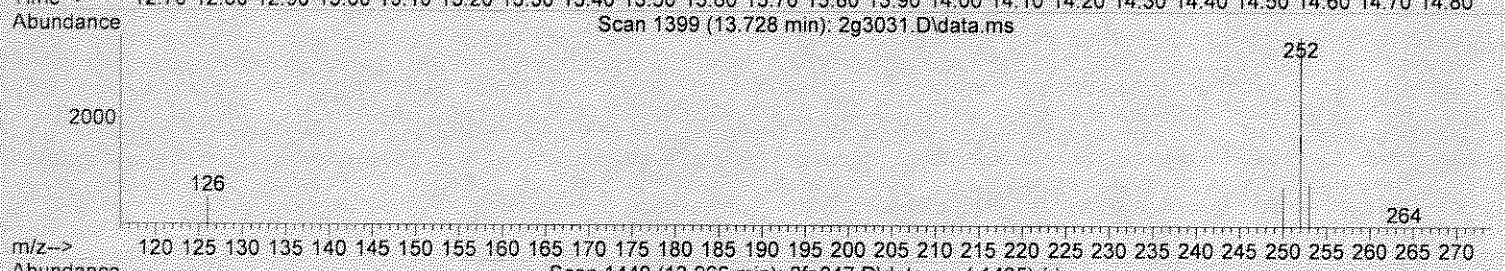
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] Other:
Review by/date: 7-3-13
Review by/date: 7/8/13

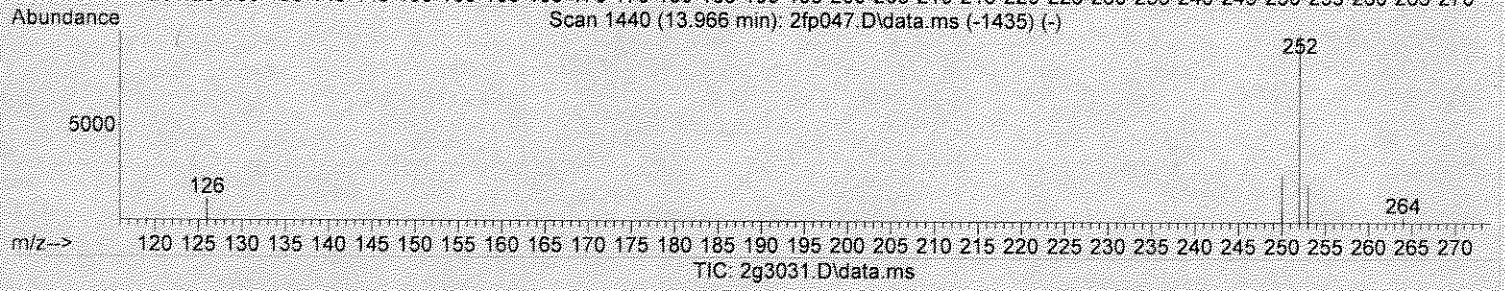
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3031.D
Acq On : 3 Jul 2013 19:09
Operator : jfi
Sample : a303499-22
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 03 19:26:51 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration







TIC: 2g3031.D\data.ms

(19) Benzo(b)fluoranthene

13.728min (+0.031) 0.01 ug/mL m

response 8971

Ion	Exp%	Act%
252.10	100	100
253.10	21.50	20.20
125.95	17.10	14.94
0.00	0.00	0.00

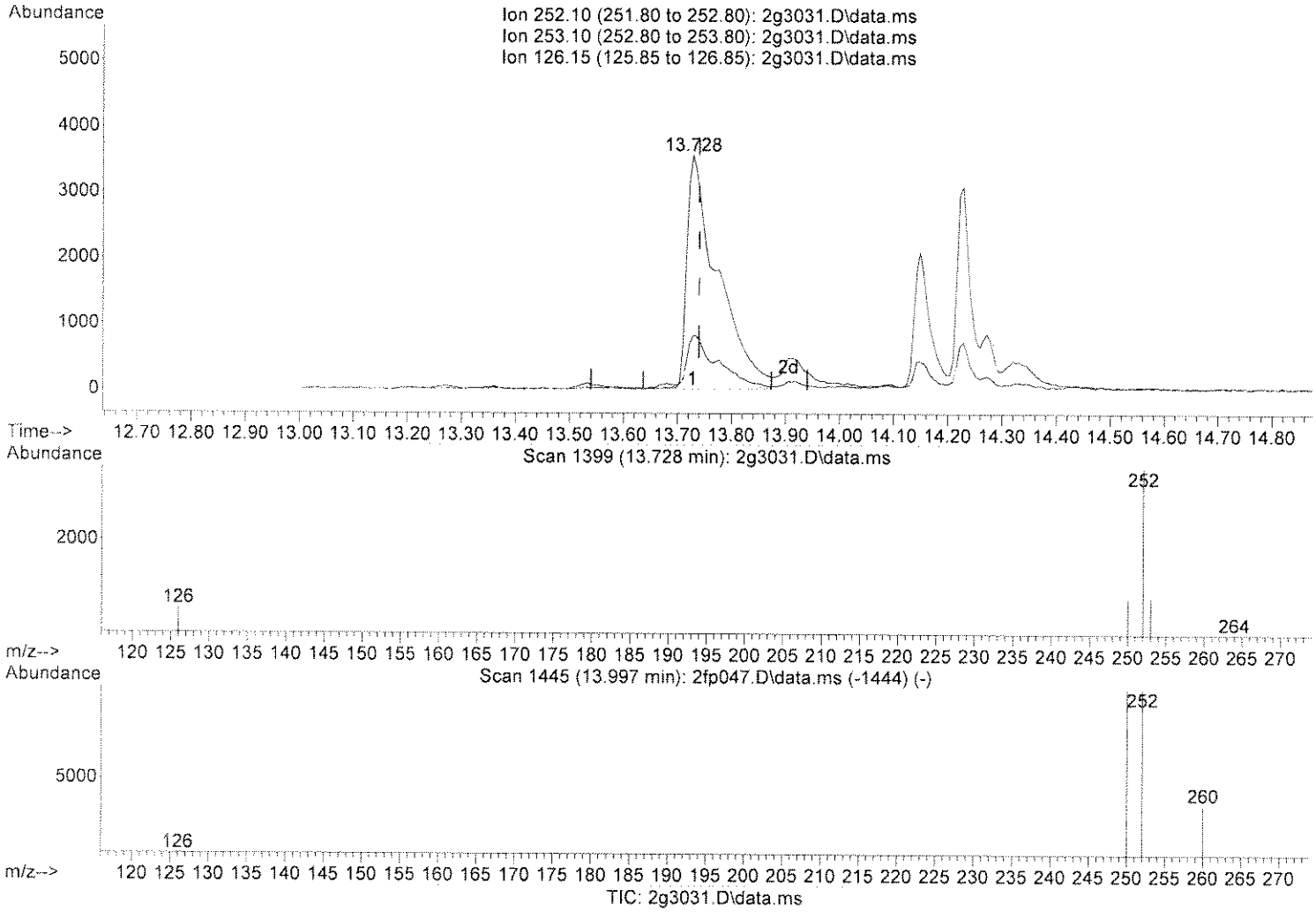
Select one:
[ ] Original integration / [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] Other:

Review by/date: [illegible] 7/1/13
Review by/date: [illegible]

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3031.D
Acq On : 3 Jul 2013 19:09
Operator : jfi
Sample : a303499-22
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 03 19:26:51 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration

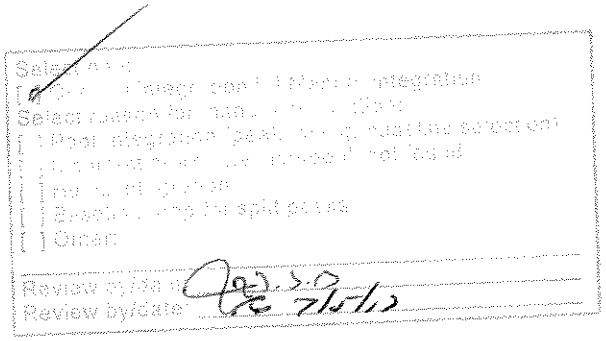


(20) Benzo(k)fluoranthene

13.728min (-0.012) 0.02 ug/mL

response 14257

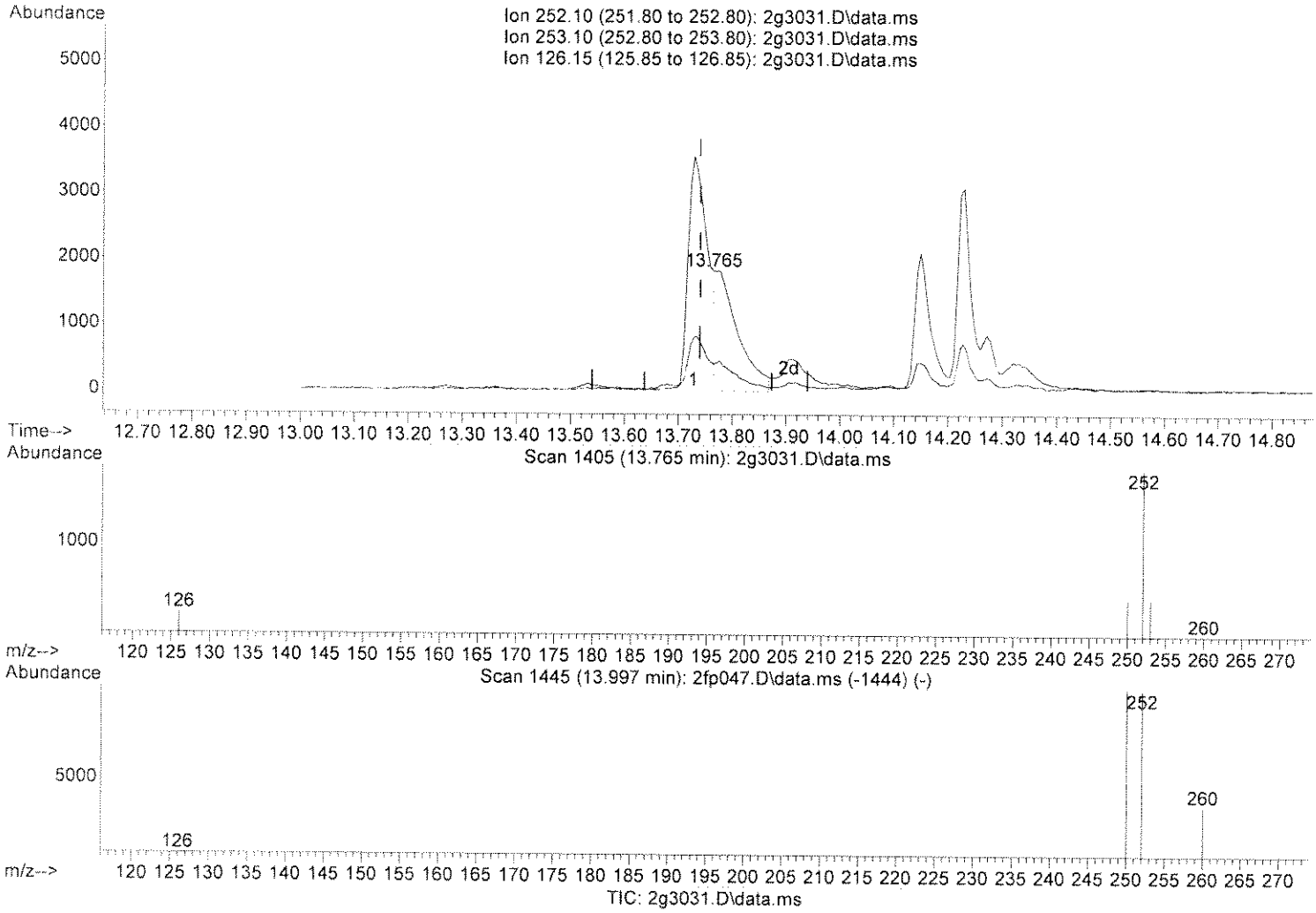
Ion	Exp%	Act%
252.10	100	100
253.10	21.70	12.71
126.15	19.30	9.40
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070313\
Data File : 2g3031.D
Acq On : 3 Jul 2013 19:09
Operator : jfi
Sample : a303499-22
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 03 19:26:51 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Sat Jun 29 19:37:37 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.765min (+0.024) 0.01 ug/mL m

response 5328

Ion	Exp%	Act%
252.10	100	100
253.10	21.70	34.01
126.15	19.30	25.15
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Selection for manual integration:
[ ] Int. no peaks (Lost peak, string, baseline wide/noisy)
[ ] Incorrect Sel. or Missed/peak not found
[ ] Wrong RT / shift
[ ] Baseline, tailing or split peaks
[ ] Other:
Review by/date: 7-3-13
Review by/date: 7-5-13

ANALYSIS SEQUENCE

AA24824

Instrument: OSVGCMS2

Calibration ID: 1303004

Printed: 7/6/2013 10:49:41

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA24824-TUN1	QC		1		A3D0331			
AA24824-CCV1	QC		2		A3F0025	A3C0331		
A303448-03	8270D PAH SIM DOD	A	3			A3C0331	CH2M Hill, Inc. (CH025)	
A303448-04	8270D PAH SIM DOD	A	4			A3C0331	CH2M Hill, Inc. (CH025)	
A303448-07	8270D PAH SIM DOD	A	5			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-02	8270D PAH SIM DOD	B	6			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-04	8270D PAH SIM DOD	B	7			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-05	8270D PAH SIM DOD	B	8			A3C0331	CH2M Hill, Inc. (CH025)	
A303479-09	8270D PAH SIM DOD	B	9			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-08	8270D PAH SIM DOD	A	10			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-13	8270D PAH SIM DOD	A	11			A3C0331	CH2M Hill, Inc. (CH025)	
A303499-16	8270D PAH SIM DOD	A	12			A3C0331	CH2M Hill, Inc. (CH025)	
A303557-02	8270D PAH SIM DOD	A	13			A3C0331	CH2M Hill, Inc. (CH025)	
A303557-03	8270D PAH SIM DOD	A	14			A3C0331	CH2M Hill, Inc. (CH025)	
A303557-04	8270D PAH SIM DOD	A	15			A3C0331	CH2M Hill, Inc. (CH025)	
A303557-05	8270D PAH SIM DOD	A	16			A3C0331	CH2M Hill, Inc. (CH025)	

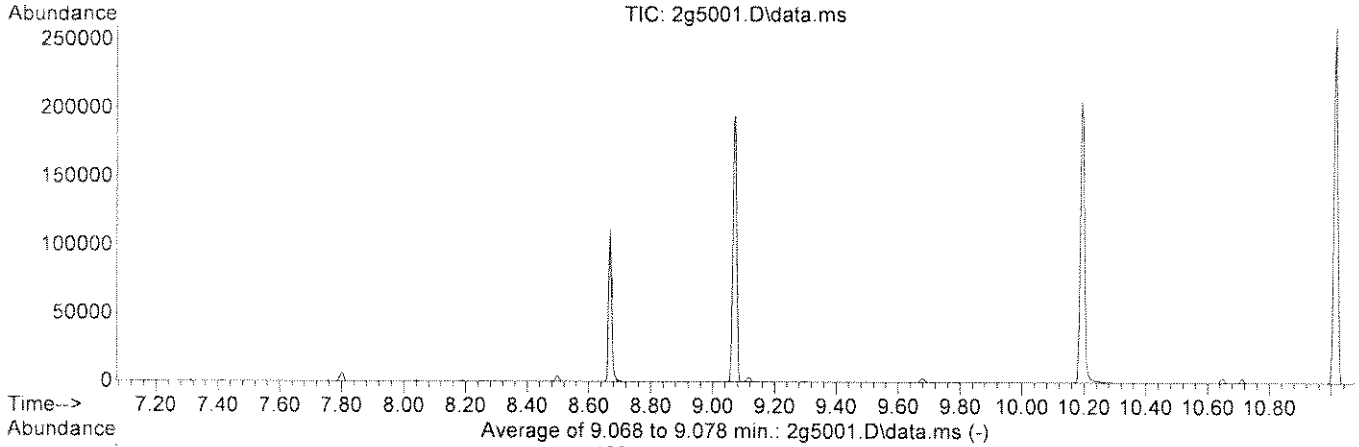
Samples Loaded By _____ Date _____

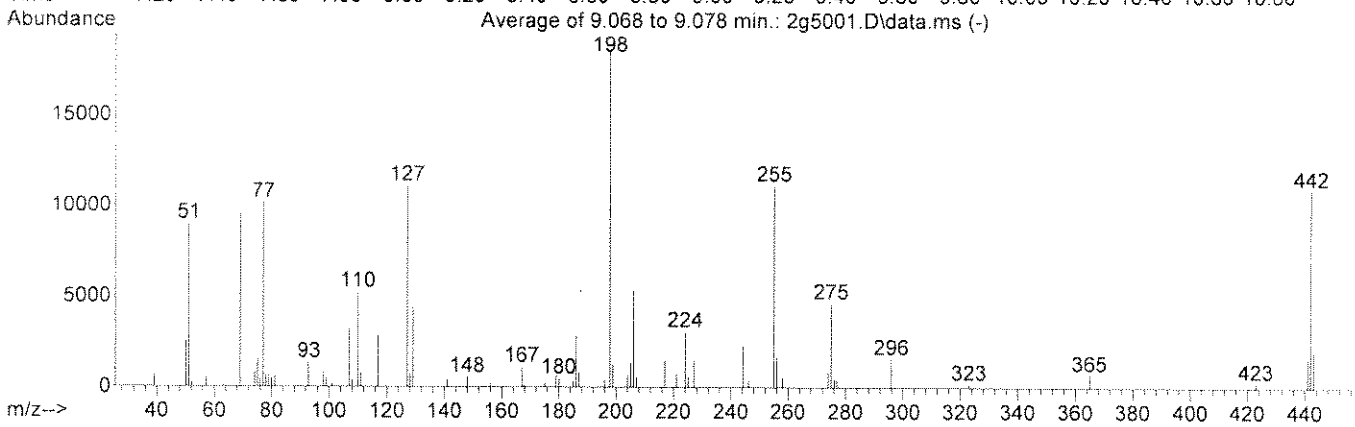
Data Processed By _____ Date _____

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5001.D
Acq On : 5 Jul 2013 9:26
Operator : jfi
Sample : aa24824-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Sat Jun 29 19:16:30 2013





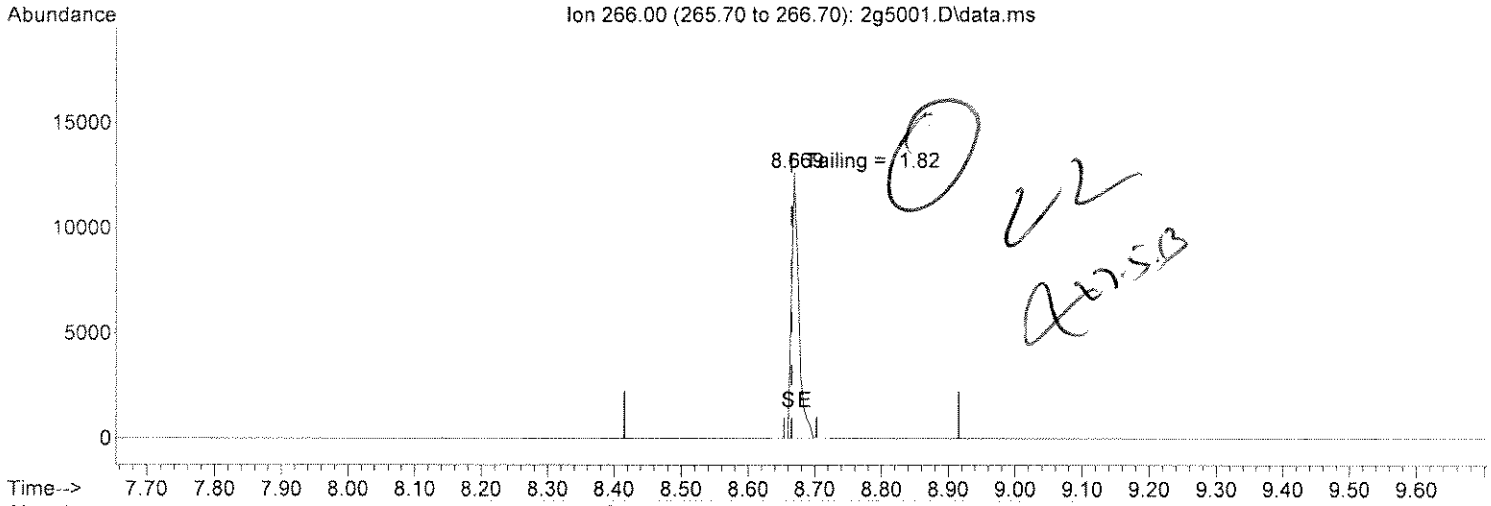
AutoFind: Scans 827, 828, 829; Background Corrected with Scan 821

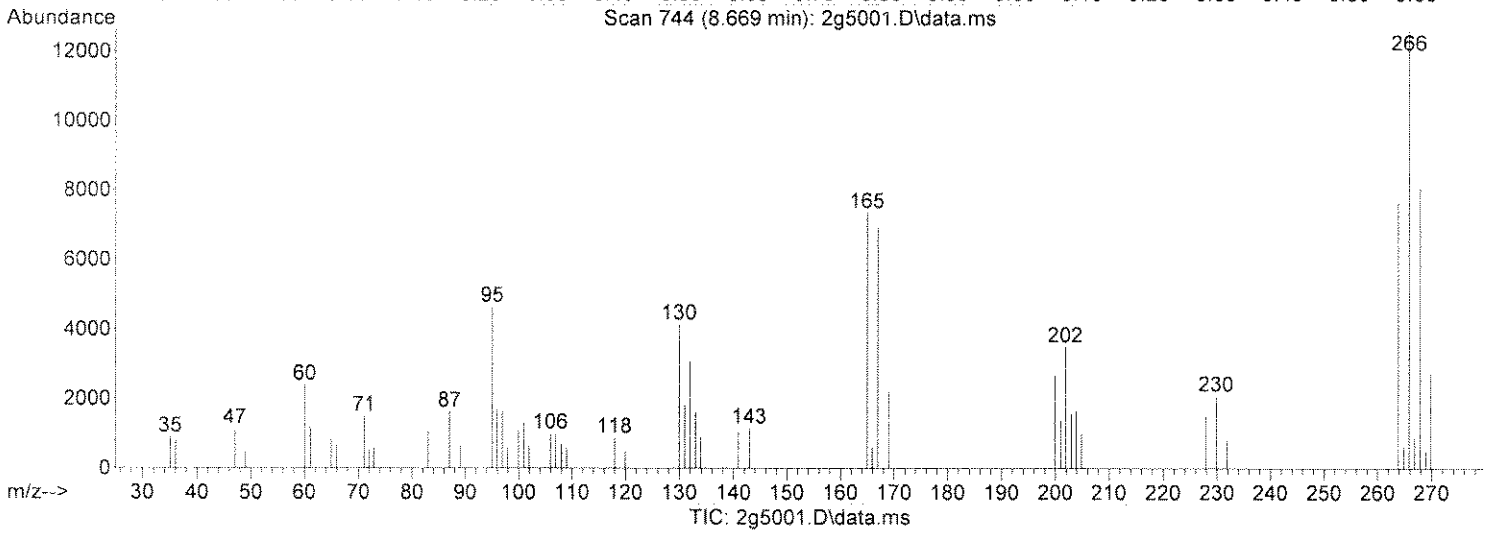
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.2	8978	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.3	9547	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	59.4	11074	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	18628	PASS
199	198	5	9	6.7	1247	PASS
275	198	10	30	24.8	4616	PASS
365	198	1	100	3.8	699	PASS
441	443	0.01	100	77.6	1567	PASS
442	198	50	100	58.3	10860	PASS
443	442	17	23	18.6	2020	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5001.D
Acq On : 5 Jul 2013 9:26
Operator : jfi
Sample : aa24824-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:40:09 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPPD FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration





(1) Pentachlorophenol

8.669min (+0.003) 8.85 ug/ml

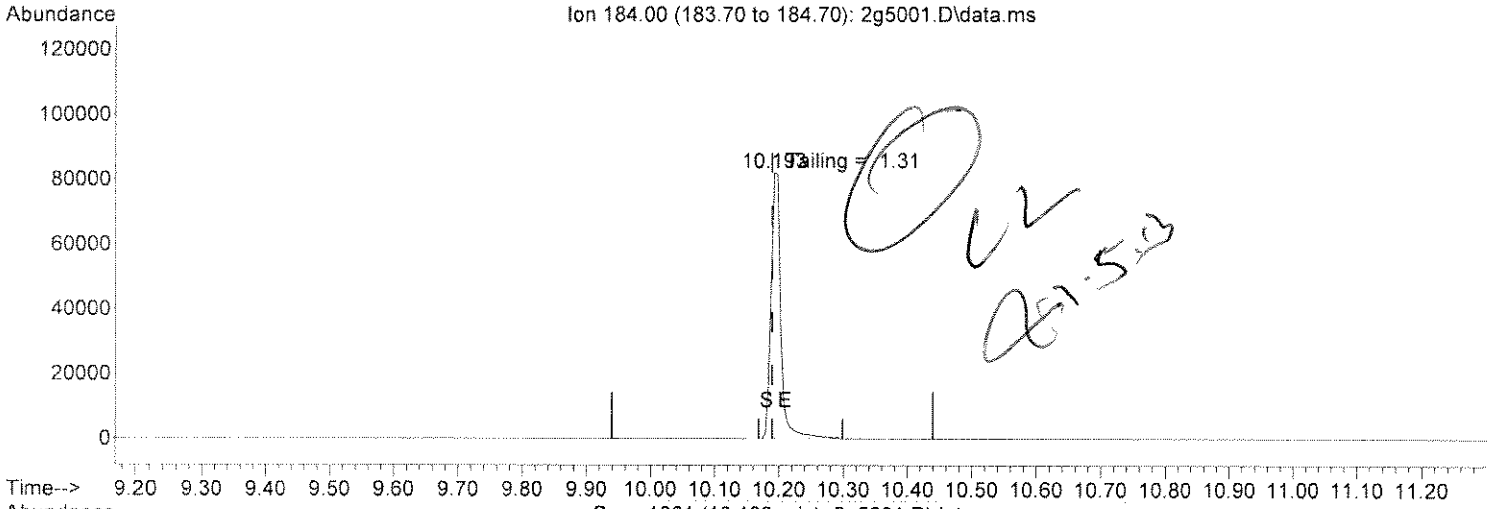
response 9655

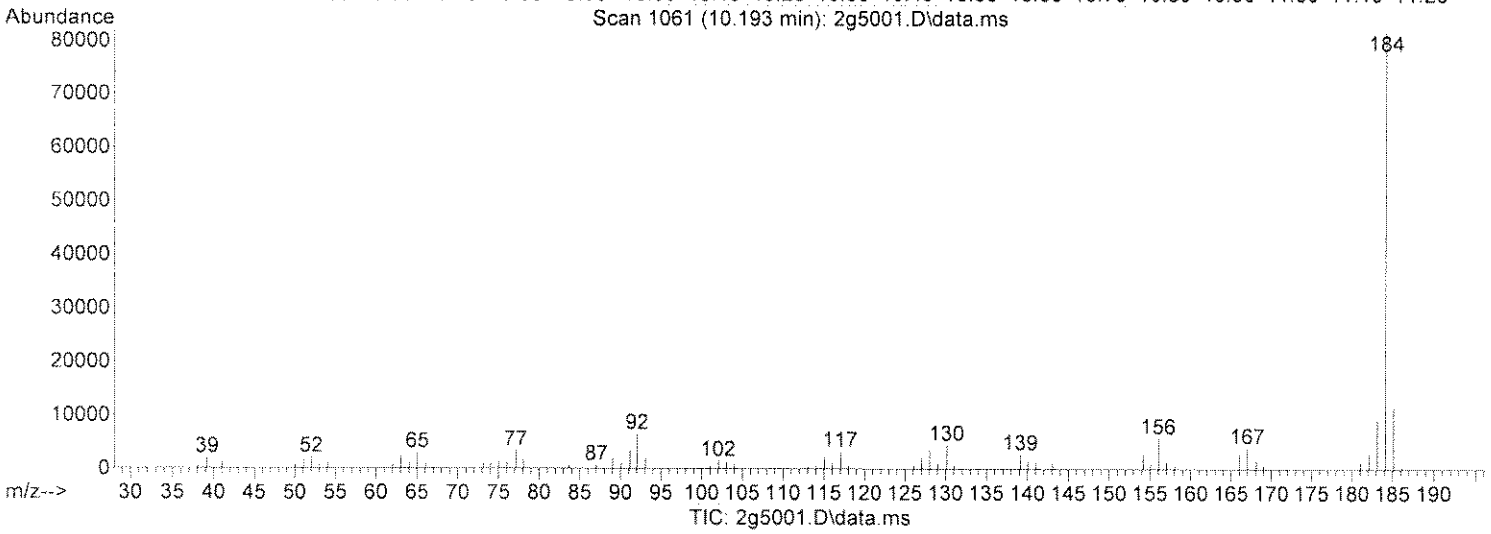
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5001.D
Acq On : 5 Jul 2013 9:26
Operator : jfi
Sample : aa24824-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:40:09 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration





(3) Benzidine

10.193min (+0.003) 11.07 ug/ml

response 85953

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5001.D
Acq On : 5 Jul 2013 9:26
Operator : jfi
Sample : aa24824-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:40:09 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	8.669	266	9655	8.8463	ug/ml	100
2) DFTPP	9.073	198	20957	10.4695	ug/ml	100
3) Benzidine	10.193	184	85953	11.0657	ug/ml	100
4) DDE	0.000		0	N.D.		
5) DDD	0.000		0	N.D.		
6) DDT	11.016	TIC	217788	9.9856	#	94

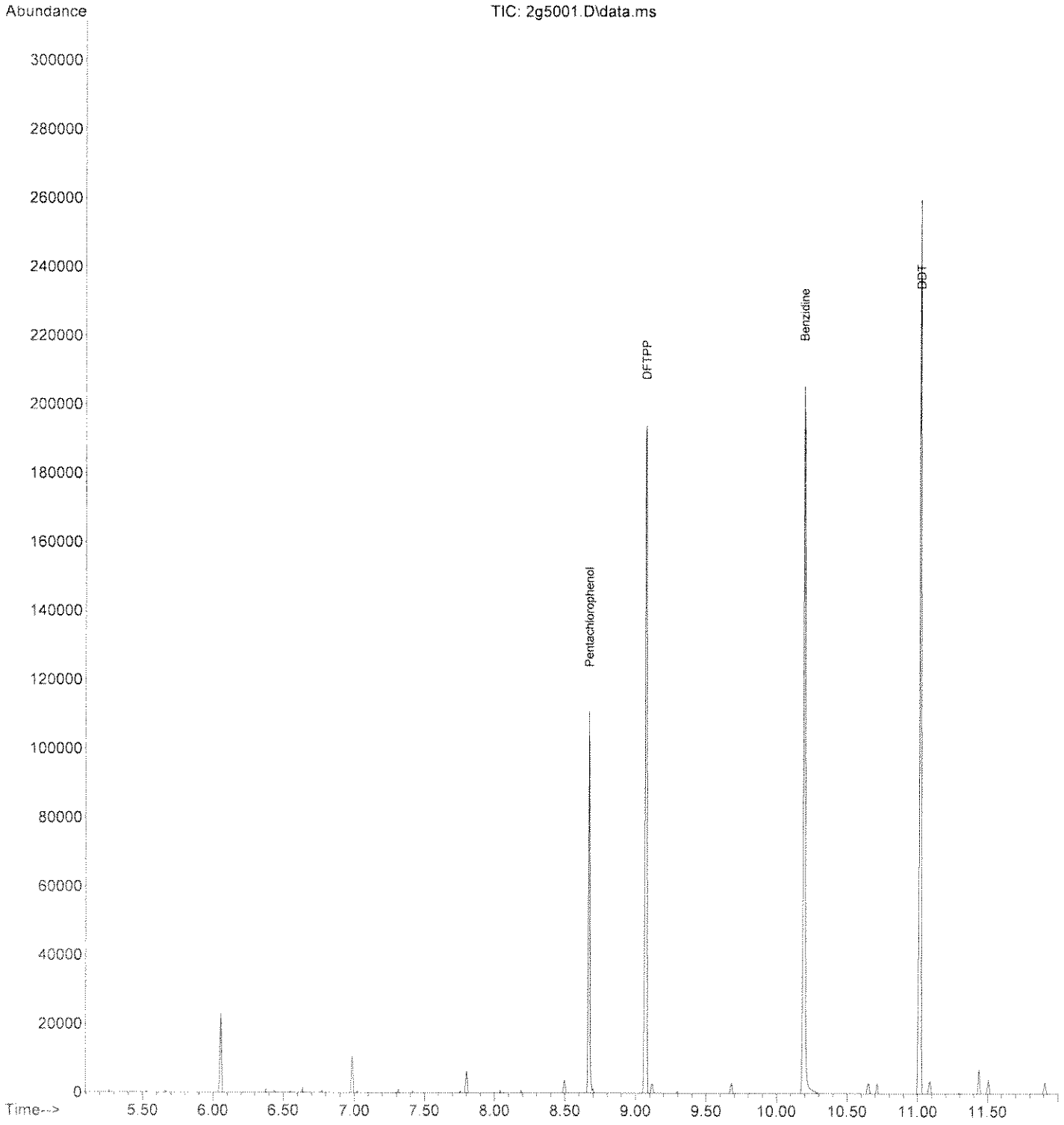
(#) = qualifier out of range (m) = manual integration (+) = signals summed

No DDT DEG observed
<20% DDT DEG
[illegible] 7.5.13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5001.D
Acq On : 5 Jul 2013 9:26
Operator : jfi
Sample : aa24824-tun1
Misc : a3d0331
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:40:09 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Sat Jun 29 19:16:30 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5002.D
Acq On : 5 Jul 2013 10:08
Operator : jfi
Sample : aa24824-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 10:36:02 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Wed Jul 03 20:07:19 2013
Response via : Initial Calibration

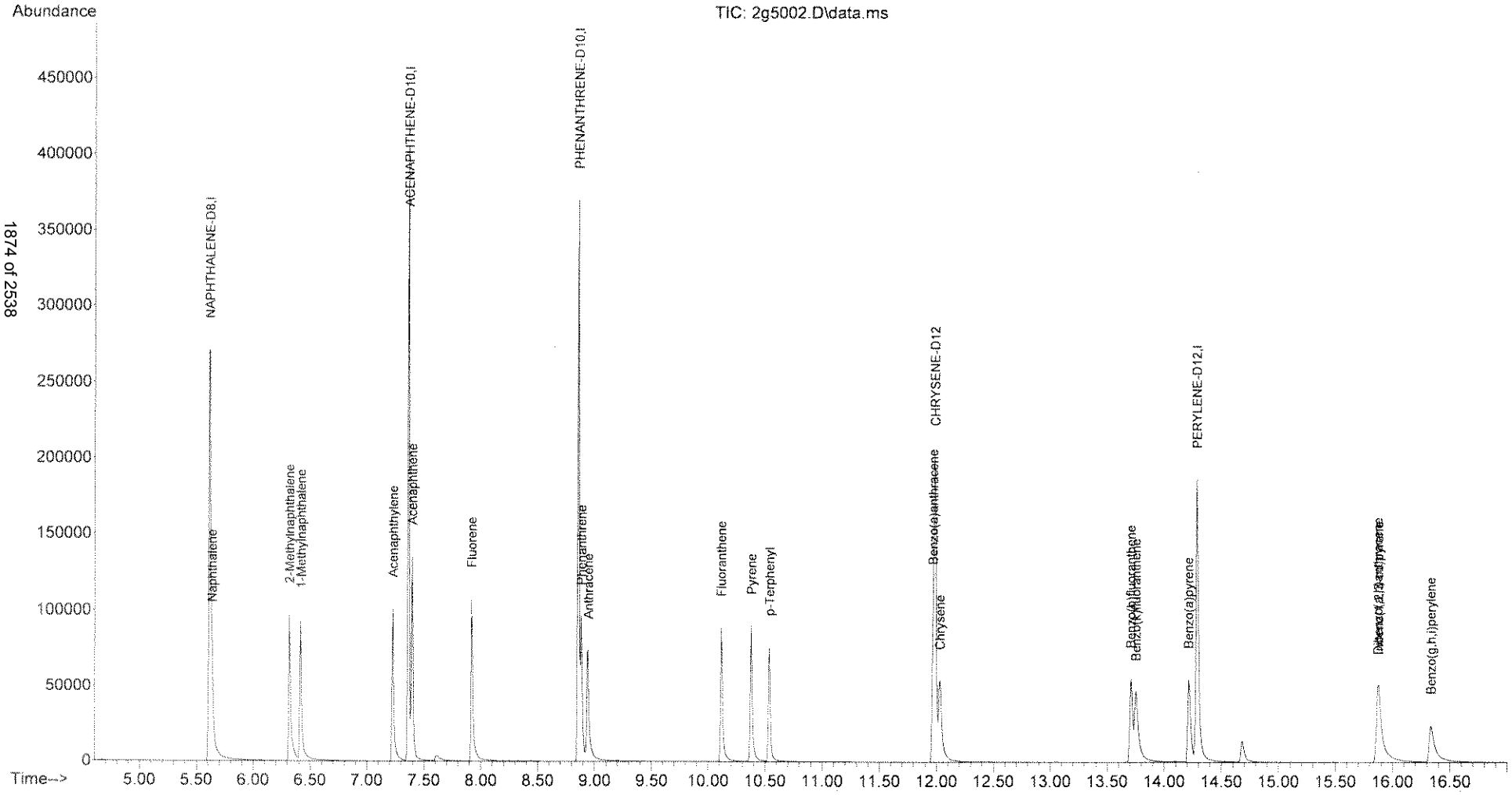
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.614	136	320496	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.363	164	183911	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.855	188	290088	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.985	240	269224	0.50	ug/mL	0.00
18) PERYLENE-D12	14.283	264	244055	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.634	128	75486	0.0921	ug/mL	99
3) 2-Methylnaphthalene	6.315	142	55203	0.0803	ug/mL	99
4) 1-Methylnaphthalene	6.416	142	52191	0.0833	ug/mL	99
6) Acenaphthylene	7.228	152	84602	0.0974	ug/mL	100
7) Acenaphthene	7.393	154	49232	0.0965	ug/mL	96
8) Fluorene	7.916	166	60972	0.0896	ug/mL	98
10) Phenanthrene	8.881	178	77722	0.0934	ug/mL	100
11) Anthracene	8.941	178	80076	0.0970	ug/mL	99
12) Fluoranthene	10.112	202	88486	0.0921	ug/mL	88
13) Pyrene	10.376	202	87836	0.0915	ug/mL	86
14) p-Terphenyl	10.535	230	67559	0.0882	ug/mL	100
16) Benzo(a)anthracene	11.968	228	72411	0.0947	ug/mL	97
17) Chrysene	12.028	228	74788	0.0964	ug/mL	98
19) Benzo(b)fluoranthene	13.704	252	58880	0.0867	ug/mL	97
20) Benzo(k)fluoranthene	13.747	252	73868	0.1051	ug/mL	95
21) Benzo(a)pyrene	14.210	252	66283	0.1080	ug/mL	95
22) Indeno(1,2,3-cd)pyrene	15.875	276	64907	0.0834	ug/mL	88
23) Dibenzo(a,h)anthracene	15.868	278	54757	0.0859	ug/mL	94
24) Benzo(g,h,i)perylene	16.331	276	56234	0.0811	ug/mL	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5002.D
Acq On : 5 Jul 2013 10:08
Operator : jfi
Sample : aa24824-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

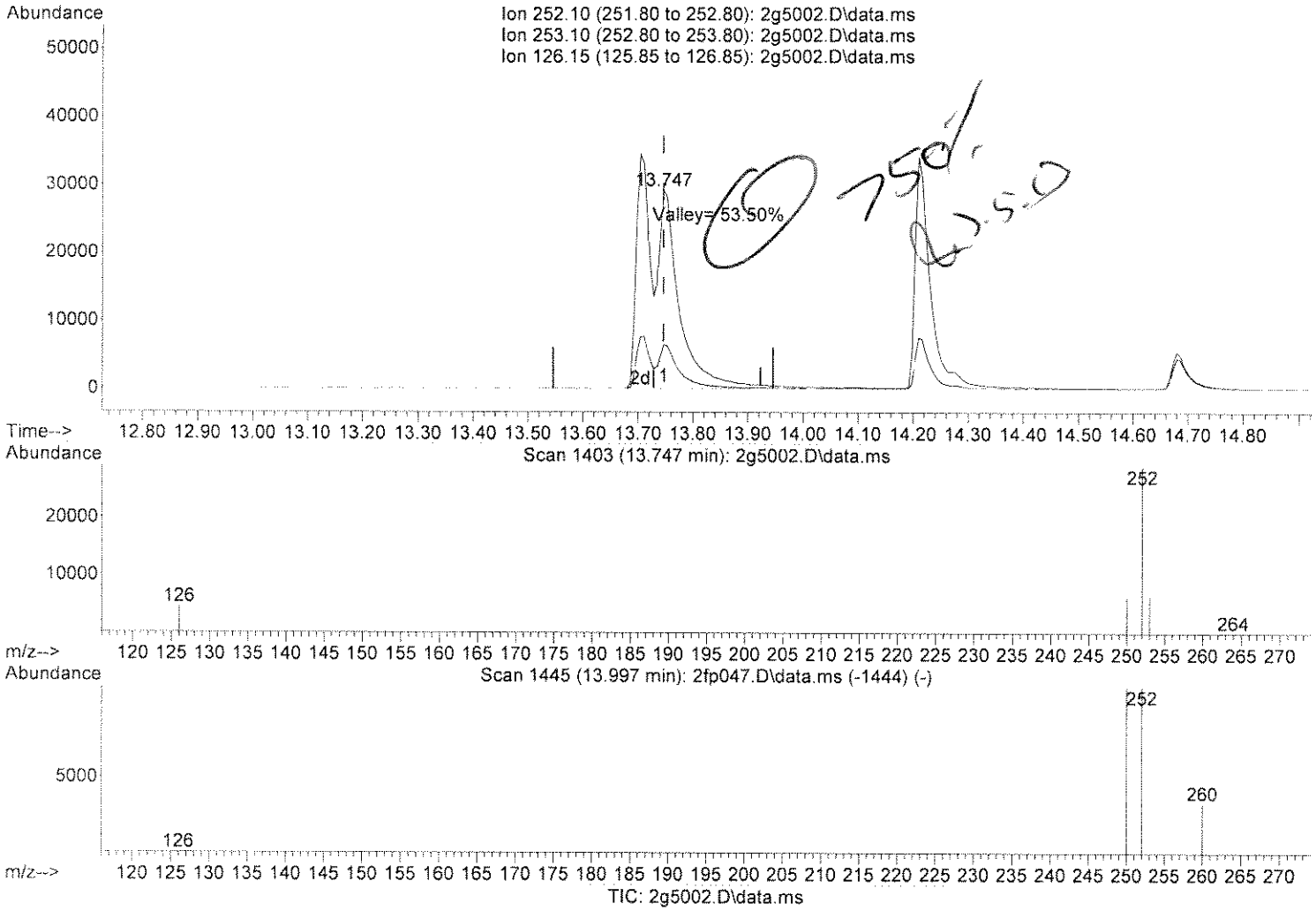
Quant Time: Jul 05 10:36:02 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Wed Jul 03 20:07:19 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5002.D
Acq On : 5 Jul 2013 10:08
Operator : jfi
Sample : aa24824-ccv1
Misc : a3f0025
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 10:36:02 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Wed Jul 03 20:07:19 2013
Response via : Initial Calibration



(20) Benzo(k)fluoranthene

13.747min (+0.001) 0.11 ug/mL

response 73868

Ion	Exp%	Act%
252.10	100	100
253.10	21.70	22.19
126.15	19.30	14.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5011.D
Acq On : 5 Jul 2013 14:07
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 05 14:25:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Fri Jul 05 11:26:19 2013
Response via : Initial Calibration

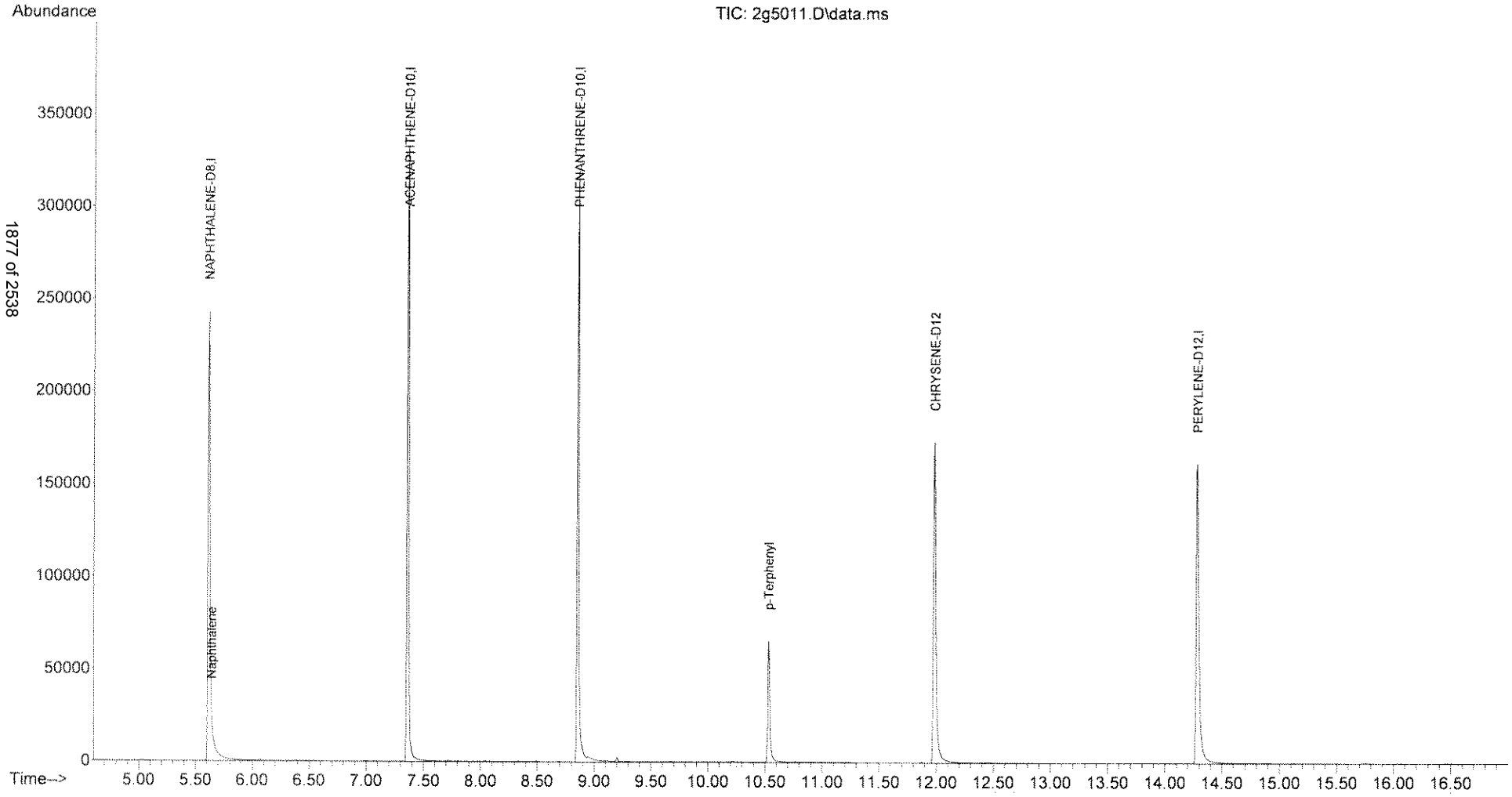
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.614	136	312164	0.50 ug/mL	0.00
5) ACENAPHTHENE-D10	7.363	164	180260	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.855	188	280857	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.983	240	256727	0.50 ug/mL	0.00
18) PERYLENE-D12	14.283	264	230884	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.640	128	415	0.0005 ug/mL	98
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.529	230	60706	0.0819 ug/mL	100
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D.	
20) Benzo(k)fluoranthene	0.000		0	N.D.	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5011.D
Acq On : 5 Jul 2013 14:07
Operator : jfi
Sample : a303499-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 05 14:25:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Fri Jul 05 11:26:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5012.D
Acq On : 5 Jul 2013 14:29
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 05 14:48:13 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Fri Jul 05 11:26:19 2013
Response via : Initial Calibration

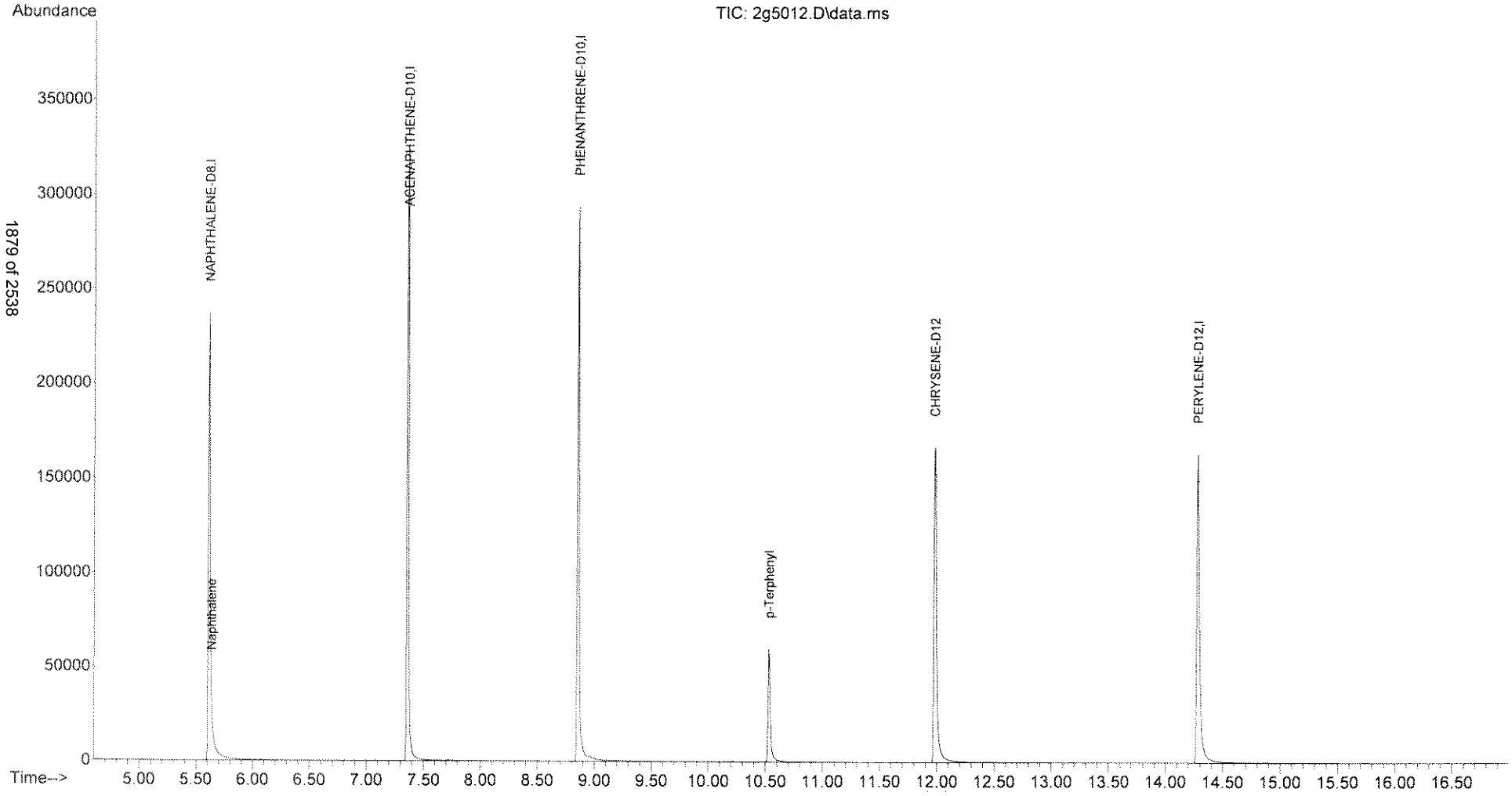
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) NAPHTHALENE-D8	5.614	136	295739	0.50 ug/mL	0.00
5) ACENAPHTHENE-D10	7.363	164	176318	0.50 ug/mL	0.00
9) PHENANTHRENE-D10	8.855	188	278139	0.50 ug/mL	0.00
15) CHRYSENE-D12	11.979	240	260779	0.50 ug/mL	0.00
18) PERYLENE-D12	14.282	264	229320	0.50 ug/mL	0.00
Target Compounds					Qvalue
2) Naphthalene	5.634	128	408	0.0005 ug/mL	90
3) 2-Methylnaphthalene	0.000		0	N.D. d	
4) 1-Methylnaphthalene	0.000		0	N.D. d	
6) Acenaphthylene	0.000		0	N.D. d	
7) Acenaphthene	0.000		0	N.D. d	
8) Fluorene	0.000		0	N.D. d	
10) Phenanthrene	0.000		0	N.D. d	
11) Anthracene	0.000		0	N.D. d	
12) Fluoranthene	0.000		0	N.D. d	
13) Pyrene	0.000		0	N.D. d	
14) p-Terphenyl	10.529	230	57883	0.0788 ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D. d	
17) Chrysene	0.000		0	N.D. d	
19) Benzo(b)fluoranthene	0.000		0	N.D.	
20) Benzo(k)fluoranthene	0.000		0	N.D.	
21) Benzo(a)pyrene	0.000		0	N.D. d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D. d	
24) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5012.D
Acq On : 5 Jul 2013 14:29
Operator : jfi
Sample : a303499-13
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 05 14:48:13 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Fri Jul 05 11:26:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5013.D
Acq On : 5 Jul 2013 14:50
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 05 15:15:41 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Fri Jul 05 11:26:19 2013
Response via : Initial Calibration

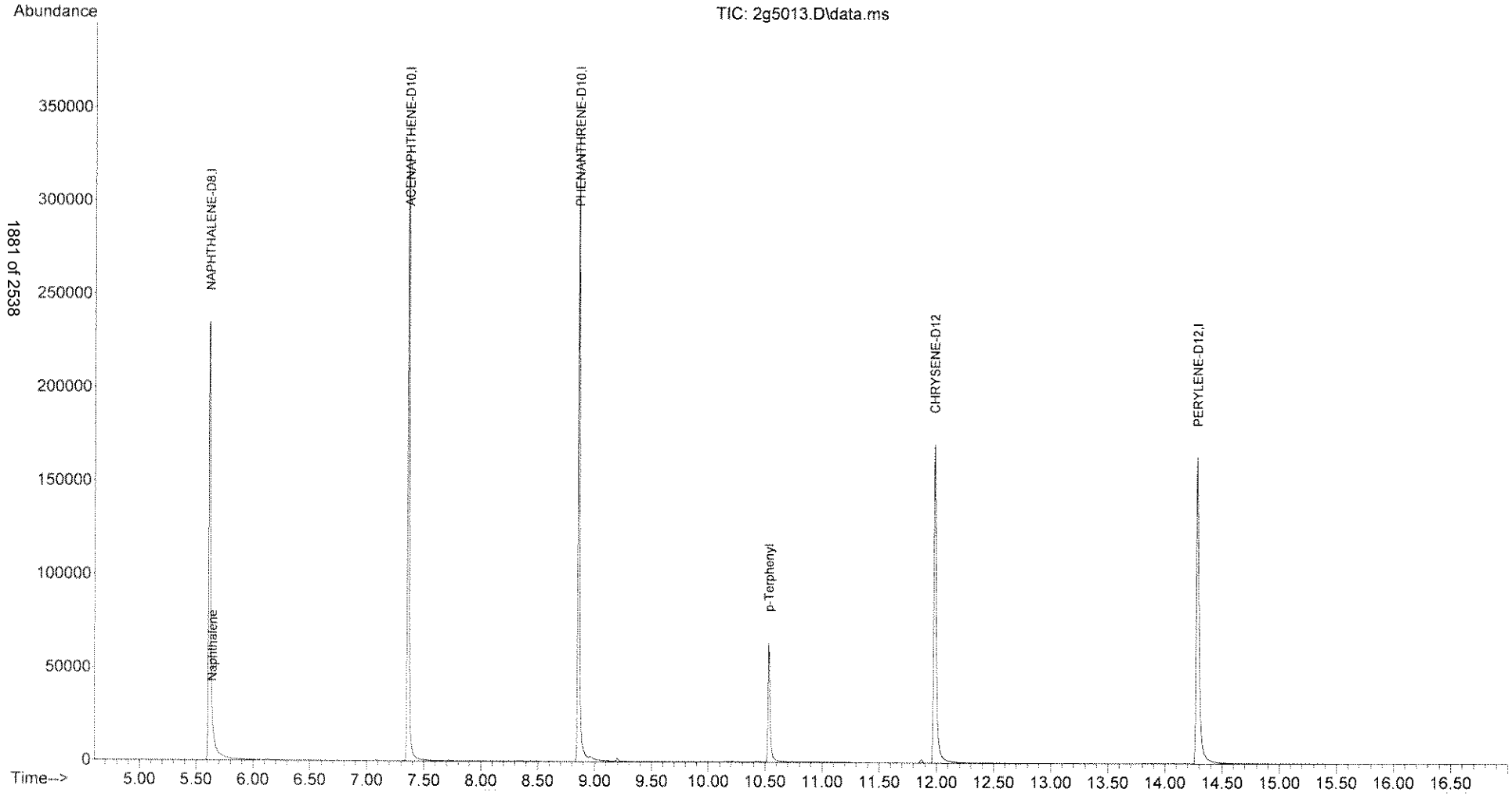
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.614	136	308224	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.364	164	181440	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.855	188	284791	0.50	ug/mL	0.00
15) CHRYSENE-D12	11.979	240	259167	0.50	ug/mL	0.00
18) PERYLENE-D12	14.283	264	236039	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.641	128	561	0.0007	ug/mL	91
3) 2-Methylnaphthalene	0.000		0	N.D.	d	
4) 1-Methylnaphthalene	0.000		0	N.D.	d	
6) Acenaphthylene	0.000		0	N.D.	d	
7) Acenaphthene	0.000		0	N.D.	d	
8) Fluorene	0.000		0	N.D.	d	
10) Phenanthrene	0.000		0	N.D.	d	
11) Anthracene	0.000		0	N.D.	d	
12) Fluoranthene	0.000		0	N.D.	d	
13) Pyrene	0.000		0	N.D.	d	
14) p-Terphenyl	10.529	230	60000	0.0798	ug/mL	99
16) Benzo(a)anthracene	0.000		0	N.D.	d	
17) Chrysene	0.000		0	N.D.	d	
19) Benzo(b)fluoranthene	0.000		0	N.D.		
20) Benzo(k)fluoranthene	0.000		0	N.D.		
21) Benzo(a)pyrene	0.000		0	N.D.	d	
22) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
23) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
24) Benzo(g,h,i)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070513\
Data File : 2g5013.D
Acq On : 5 Jul 2013 14:50
Operator : jfi
Sample : a303499-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 05 15:15:41 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
QLast Update : Fri Jul 05 11:26:19 2013
Response via : Initial Calibration



ANALYSIS SEQUENCE

AA23286

Instrument: OSVGCMS2

Calibration ID: 1303004

Printed: 3/14/2013 11:59:28

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
AA23286-TUN1	QC		1		A3B0449			
AA23286-CAL1	QC		2		A3B0509	A3B0306		0.00175 ug/ml
AA23286-CAL2	QC		3		A3B0510	A3B0306		0.01 ug/ml
AA23286-CAL3	QC		4		A3B0511	A3B0306		0.02 ug/ml
AA23286-CAL4	QC		5		A3B0512	A3B0306		0.05 ug/ml
AA23286-CAL5	QC		6		A3B0513	A3B0306		0.10 ug/ml
AA23286-CAL6	QC		7		A3B0514	A3B0306		0.20 ug/ml
AA23286-CAL7	QC		8		A3B0515	A3B0306		0.40 ug/ml
AA23286-SCV1	QC		9		A3B0516	A3B0306		0.05 (ICV) ug/ml

Samples Loaded By Date

Data Processed By Date

Response Factor Report OSVGCMS2

Method Path : C:\msdchem\1\METHODS\
Method File : SM030113ptv.M
Title : SOP SVGCMS-03; ELEMENT CAL 1303004; INST OSVGCMS2
Last Update : Thu Mar 14 11:36:22 2013
Response Via : Initial Calibration

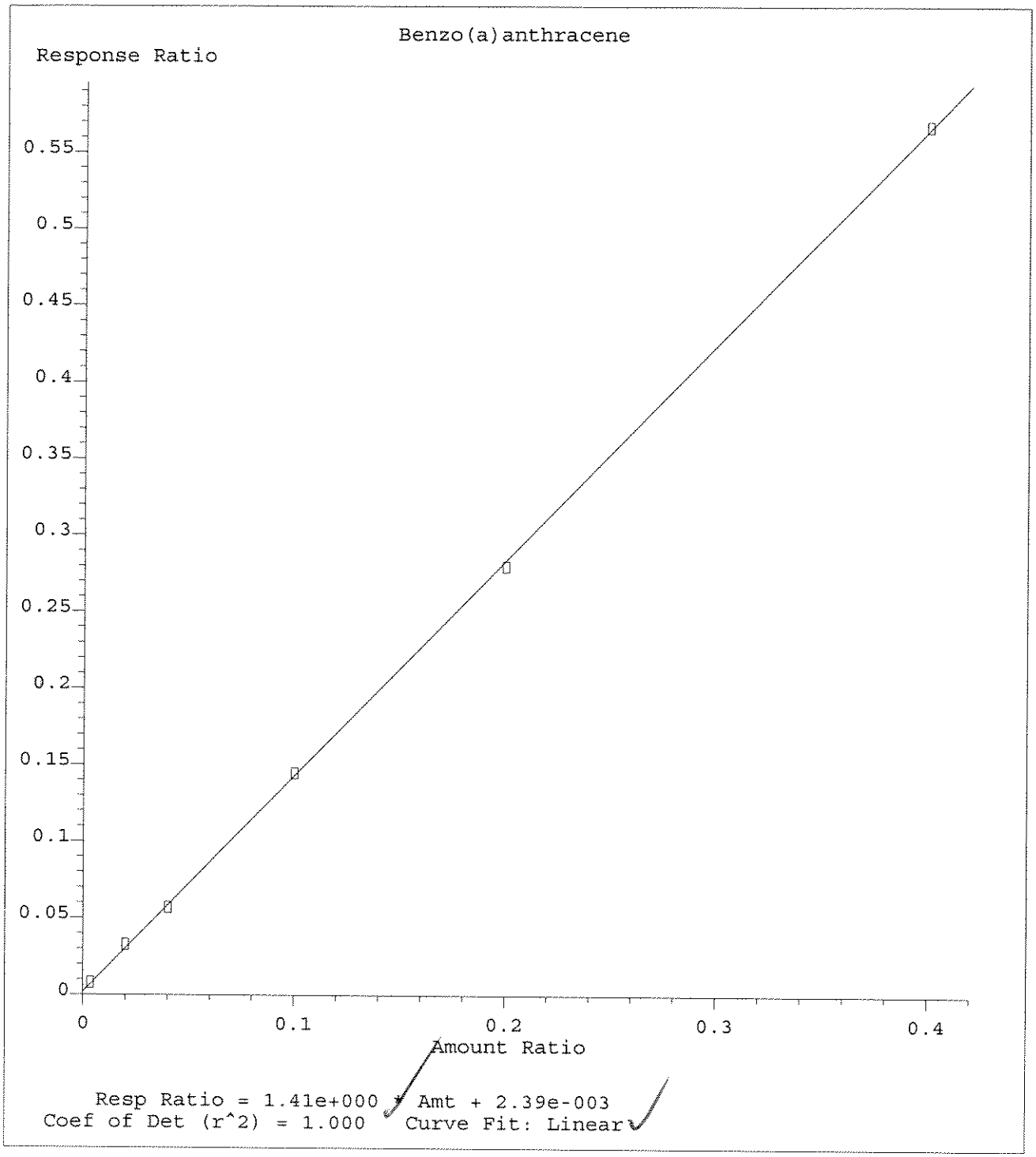
Calibration Files
1 =2c1009.D 2 =2c1003.D 3 =2c1004.D 4 =2c1005.D 5 =2c1006.D 6 =2c1007.D 7 =2c1008.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	I	NAPHTHALENE-D8	----------ISTD----------								
2)		Naphthalene	1.191	1.516	1.306	1.284	1.303	1.248	1.106	1.279	9.89
3)		2-Methylnaphth...	1.038	1.356	1.138	0.996	0.989	0.920		1.073	14.56
4)		1-Methylnaphth...	0.999	1.255	1.050	0.923	0.924	0.872	0.819	0.978	14.75
5)	I	ACENAPHTHENE-D10	----------ISTD----------								
6)		Acenaphthylene	2.316	2.623	2.409	2.470	2.497	2.350	1.867	2.362	10.19
7)		Acenaphthene	1.334	1.504	1.390	1.434	1.441	1.395	1.208	1.387	6.81
8)		Fluorene	2.111	2.035	1.878	1.859	1.844	1.726	1.495	1.850	10.93
9)	I	PHENANTHRENE-D10	----------ISTD----------								
10)		Phenanthrene	1.500	1.604	1.472	1.457	1.457	1.371	1.182	1.435	9.15
11)		Anthracene	1.372	1.583	1.452	1.463	1.490	1.395	1.203	1.423	8.32
12)		Fluoranthene	1.692	1.953	1.756	1.704	1.672	1.518	1.300	1.656	12.28
13)		Pyrene	1.715	1.934	1.728	1.686	1.669	1.526	1.326	1.655	11.37
14)		p-Terphenyl	1.407	1.528	1.365	1.320	1.316	1.225	1.078	1.320	10.74
15)		CHRYSENE-D12	----------ISTD----------								
16)		Benzo(a)anthra...	2.269	1.636	1.423	1.445	1.399	1.418		1.598	21.26
17)		Chrysene	1.658	1.539	1.434	1.432	1.382	1.398	1.240	1.441	9.06
18)	I	PERYLENE-D12	----------ISTD----------								
19)		Benzo(b)fluora...	1.396	1.451	1.401	1.437	1.401	1.408	1.242	1.391	4.96
20)		Benzo(k)fluora...	1.649	1.630	1.408	1.404	1.363	1.367	1.256	1.440	10.11
21)		Benzo(a)pyrene	1.177	1.289	1.219	1.298	1.289	1.327	1.200	1.257	4.55
22)		Indeno(1,2,3-c...	1.933	1.557	1.505	1.567	1.536	1.600	1.464	1.595	9.75
23)		Dibenzo(a,h)an...	1.596	1.282	1.223	1.262	1.249	1.320	1.210	1.306	10.17
24)		Benzo(g,h,i)pe...	1.783	1.417	1.348	1.385	1.348	1.402	1.262	1.421	11.80

(#) = Out of Range

% RSD <15%

← see L.R. printout.

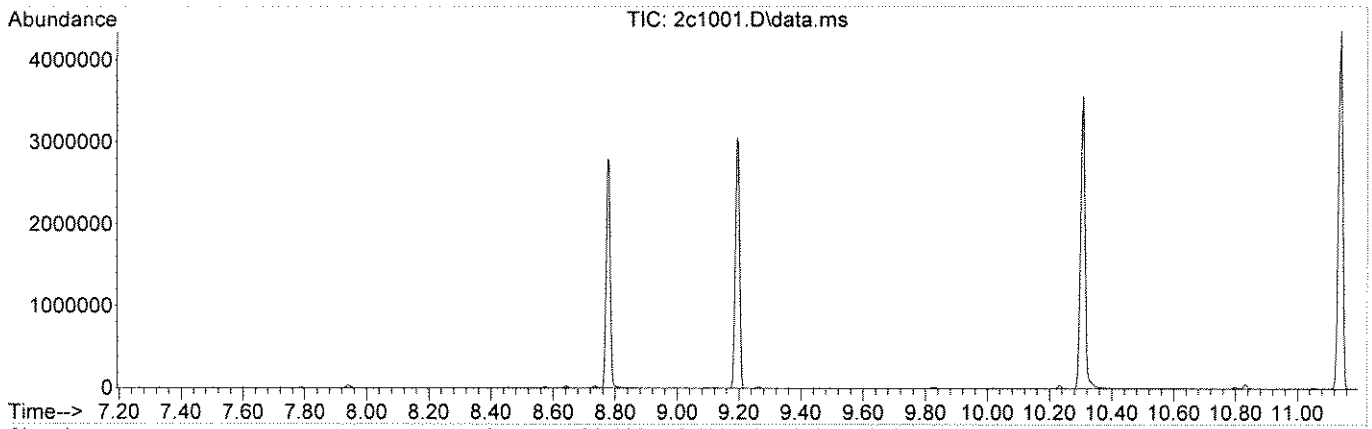


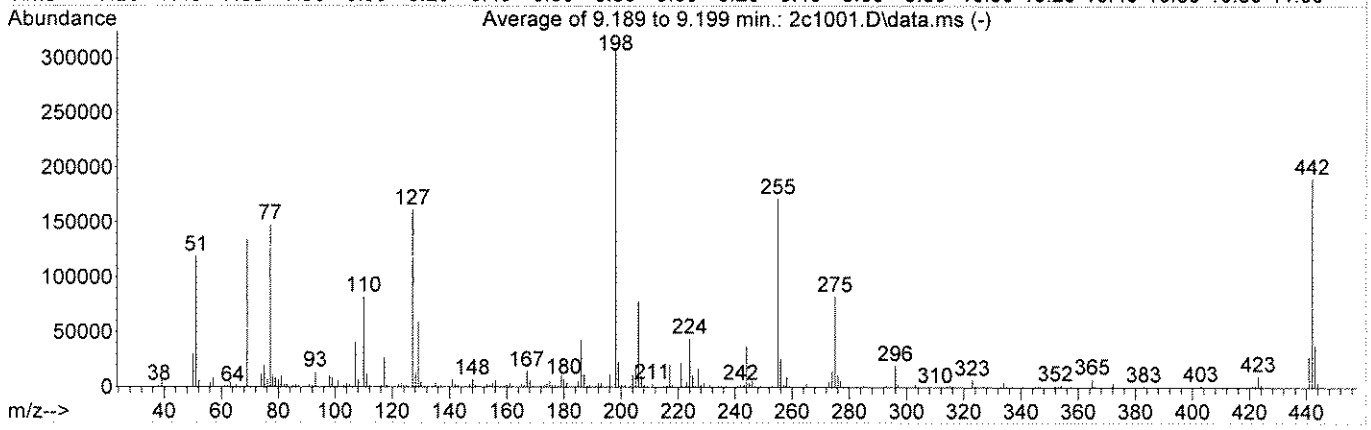
Method Name: C:\msdchem\1\METHODS\SM030113ptv.M
Calibration Table Last Updated: Tue Mar 12 12:29:37 2013

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1001.D
Acq On : 1 Mar 2013 12:56
Operator : jfi
Sample : aa23286-tun1
Misc : a3b0449
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT4.P

Method : C:\msdchem\1\METHODS\DFTPPD.M
Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
Last Update : Fri Mar 01 13:15:11 2013





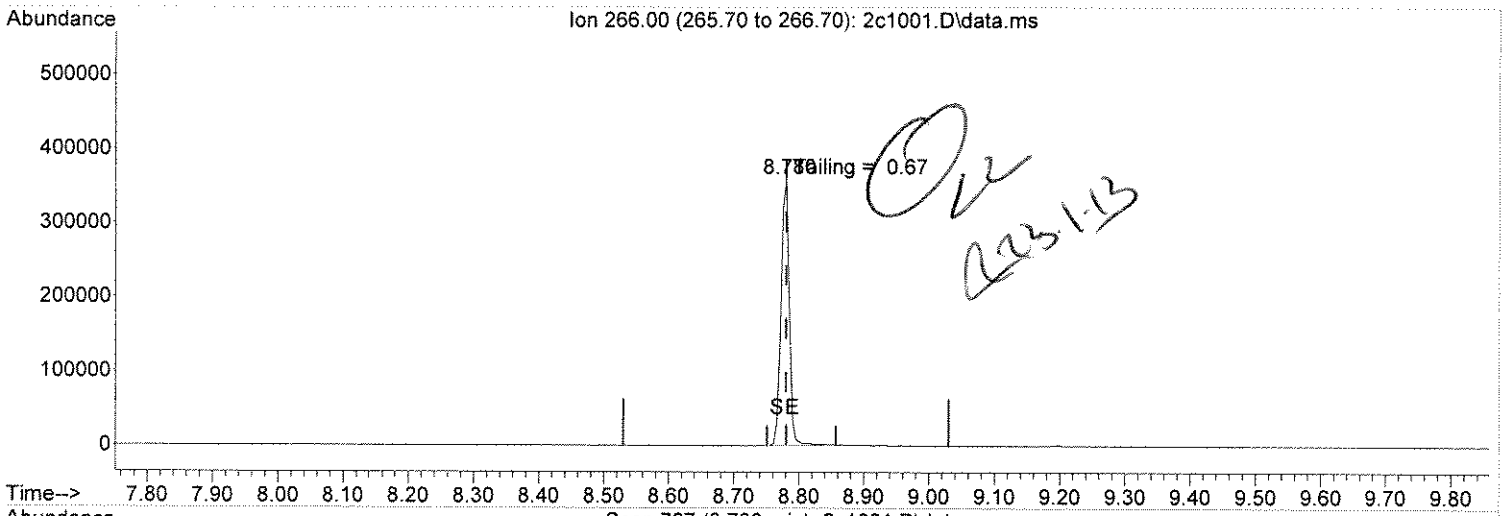
AutoFind: Scans 852, 853, 854; Background Corrected with Scan 846

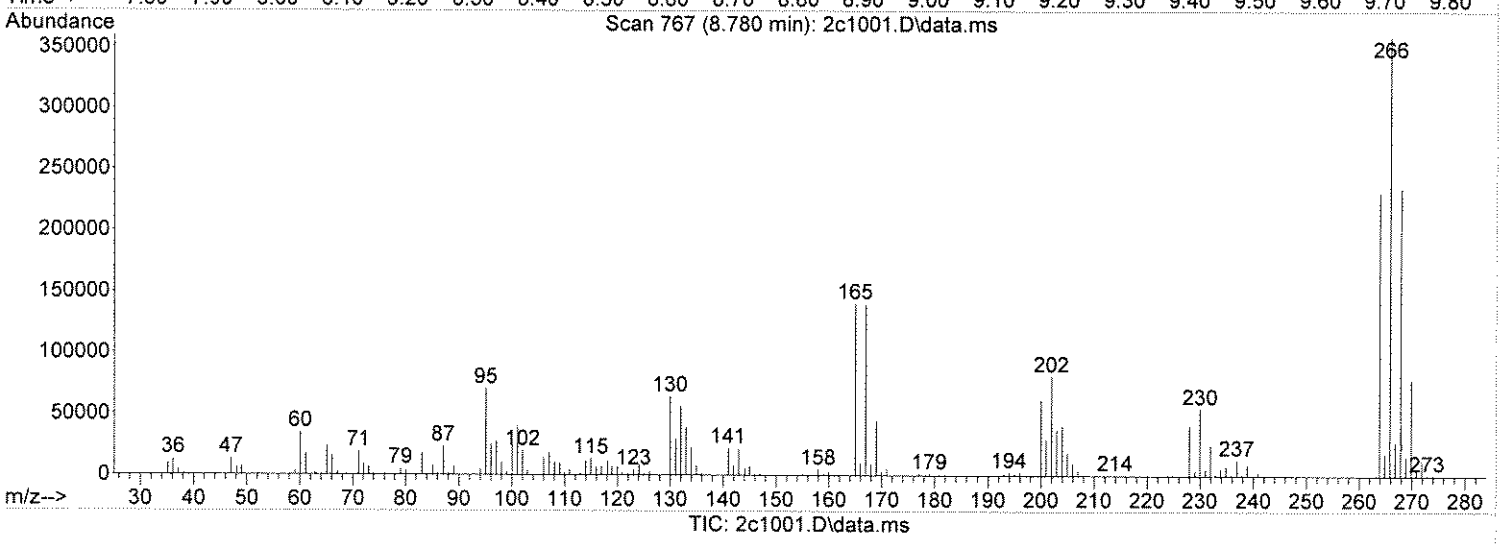
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.5	119146	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	135232	PASS
70	69	0.00	2	0.6	757	PASS
127	198	10	80	52.3	161616	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	309184	PASS
199	198	5	9	7.4	23030	PASS
275	198	10	30	26.8	82901	PASS
365	198	1	100	2.6	7975	PASS
441	443	0.01	100	75.6	28687	PASS
442	198	50	100	61.7	190784	PASS
443	442	17	23	19.9	37958	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1001.D
Acq On : 1 Mar 2013 12:56
Operator : jfi
Sample : aa23286-tun1
Misc : a3b0449
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 13:15:18 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Fri Mar 01 13:15:11 2013
Response via : Initial Calibration





(1) Pentachlorophenol

8.780min (0.000) 50.00 ug/ml

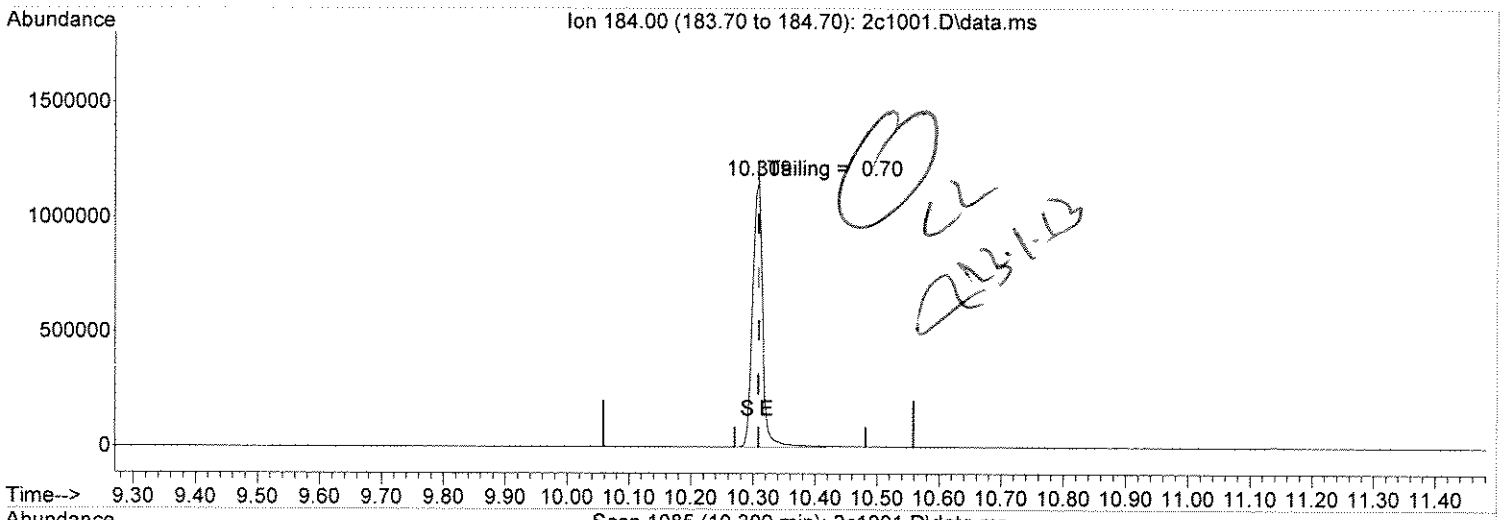
response 318487

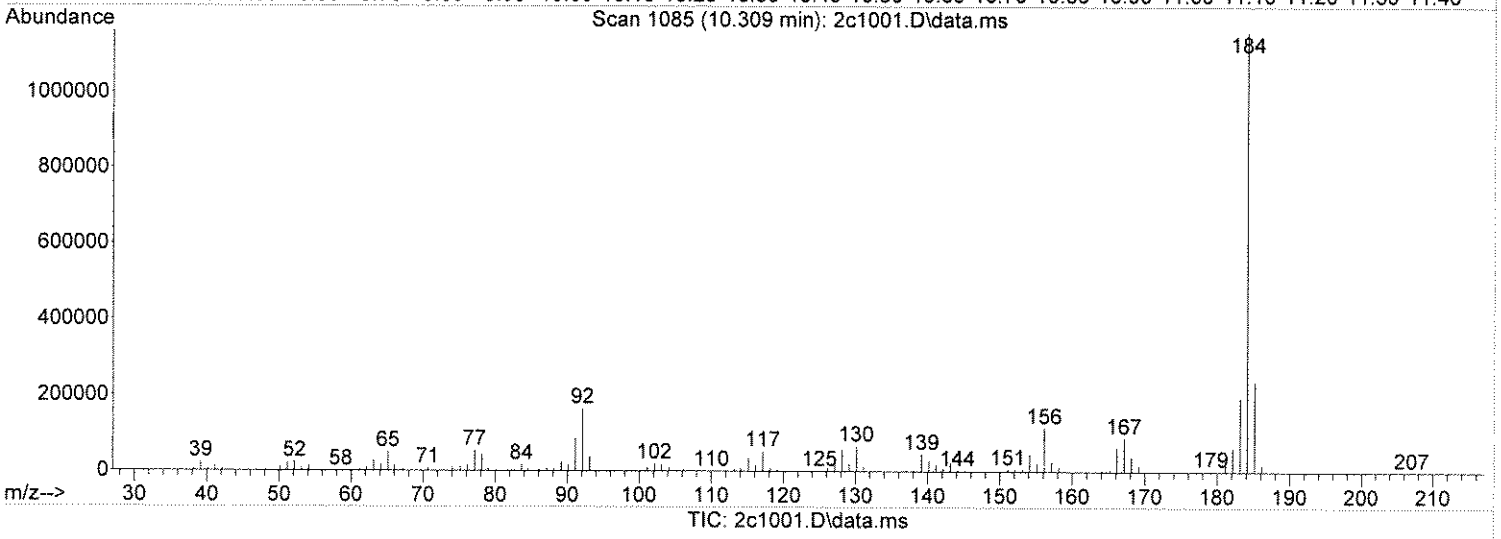
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1001.D
Acq On : 1 Mar 2013 12:56
Operator : jfi
Sample : aa23286-tun1
Misc : a3b0449
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 13:15:18 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Fri Mar 01 13:15:11 2013
Response via : Initial Calibration





(3) Benzidine

10.309min (0.000) 50.00 ug/ml

response 1342181

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1001.D
Acq On : 1 Mar 2013 12:56
Operator : jfi
Sample : aa23286-tun1
Misc : a3b0449
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 13:15:18 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Fri Mar 01 13:15:11 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Target Compounds							
1) Pentachlorophenol	8.780	266	318487	50.000	ug/ml		100
2) DFTPP	9.194	198	340327	50.000	ug/ml		100
3) Benzidine	10.309	184	1342181	50.000	ug/ml		100
4) DDE	0.000		0	N.D.			
5) DDD	10.833	TIC	43669	45.291		#	86
6) DDT	11.141	TIC	4176171	50.000			96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

43669 ×100 = 1.0% DDT DEG

43669 + 4176171

(4219840)

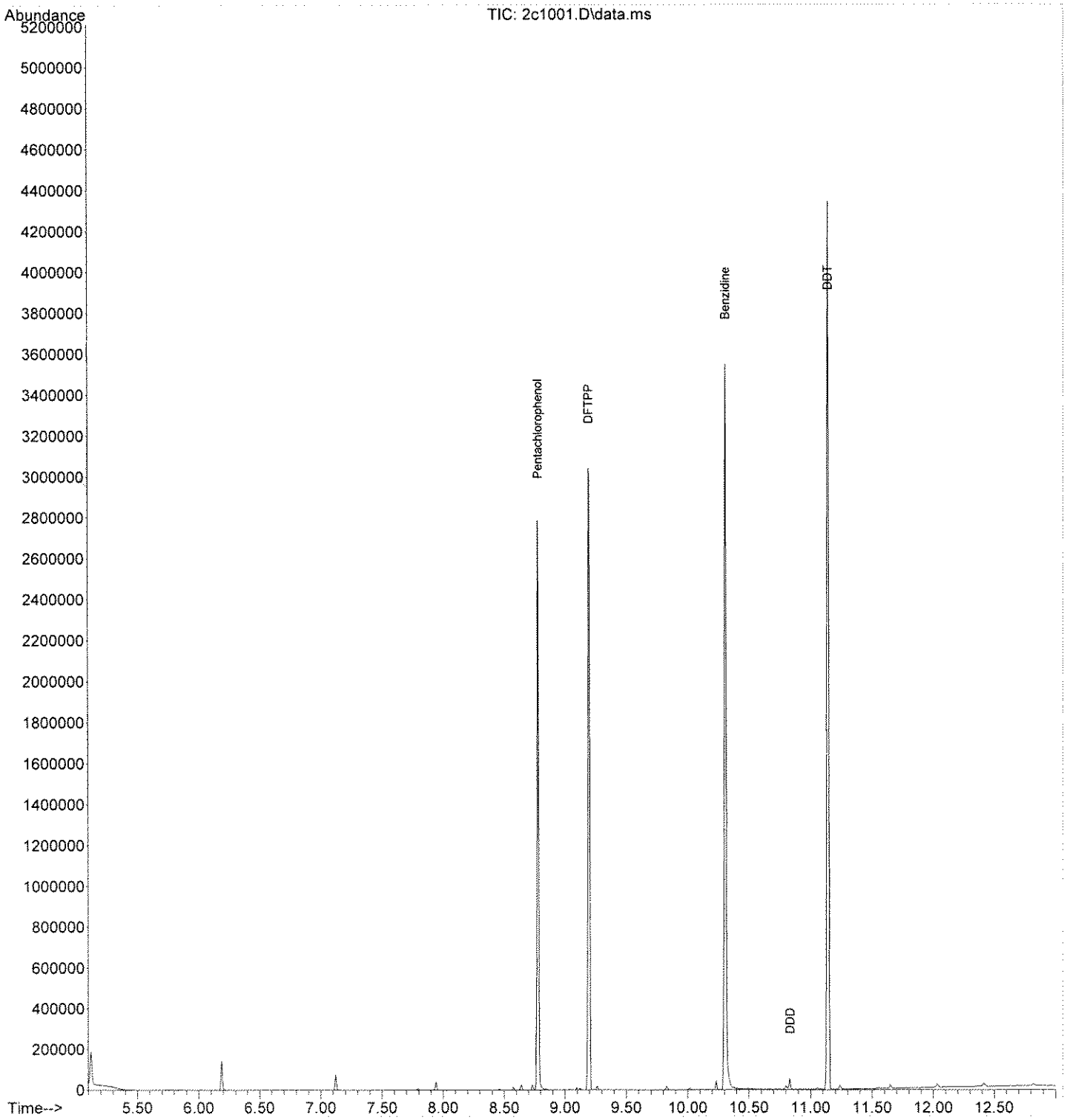
<20%

Q231.13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1001.D
Acq On : 1 Mar 2013 12:56
Operator : jfi
Sample : aa23286-tun1
Misc : a3b0449
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 13:15:18 2013
Quant Method : C:\msdchem\1\METHODS\DFTPPD.M
Quant Title : SOP SVGCMS-03;DFTPP FOR 625/8270/8270PAH/SIM
QLast Update : Fri Mar 01 13:15:11 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1009.D
Acq On : 1 Mar 2013 16:46
Operator : jfi
Sample : aa23286-cal1
Misc : a3b0509
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 09:22:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Sat Mar 02 13:08:08 2013
Response via : Initial Calibration

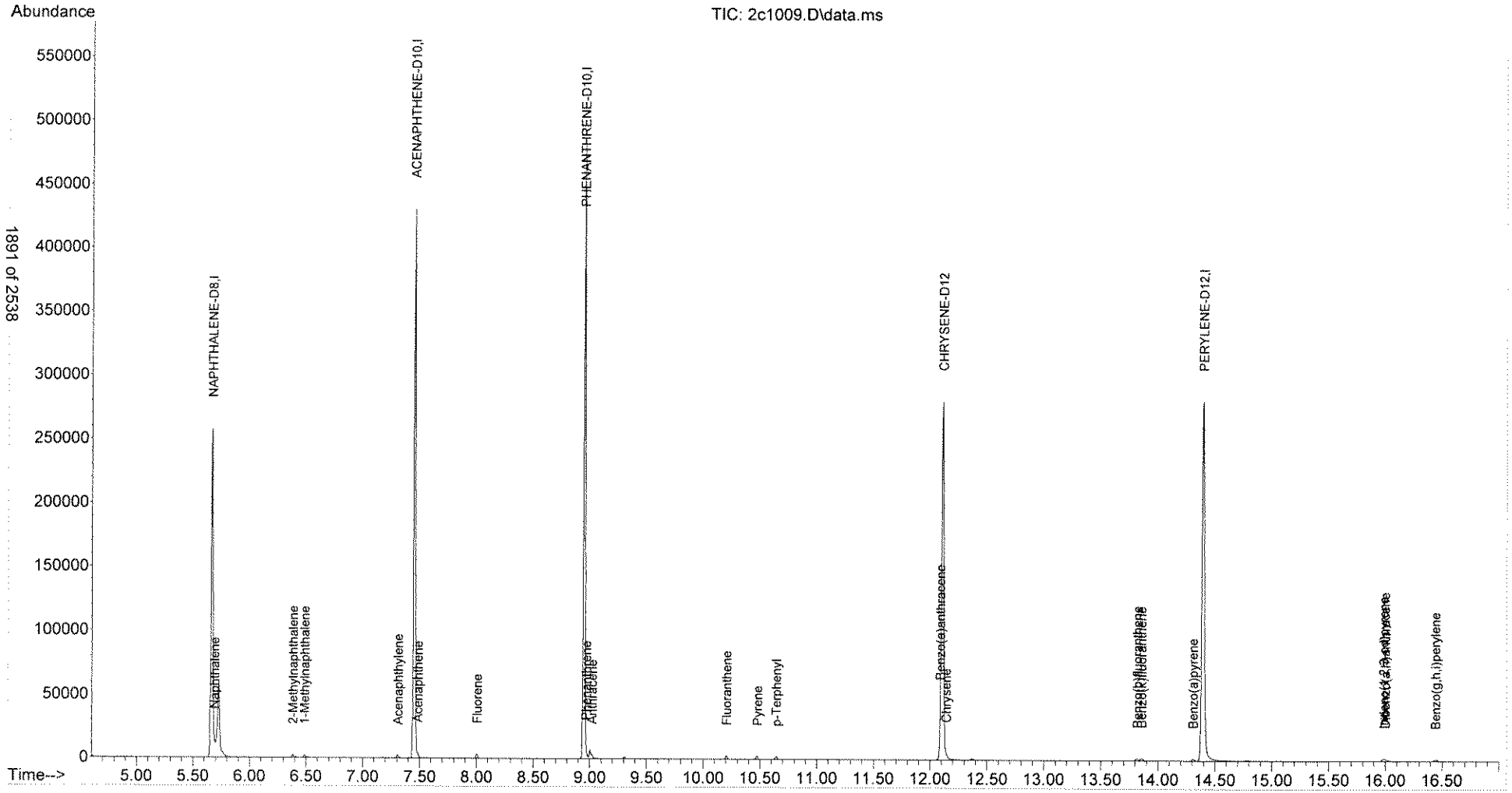
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.668	136	273026	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.453	164	212726	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.948	188	381775	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.109	240	378160	0.50	ug/mL	0.00
18) PERYLENE-D12	14.398	264	352523	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.688	128	1138	0.0016	ug/mL	99
3) 2-Methylnaphthalene	6.383	142	992	0.0017	ug/mL	90
4) 1-Methylnaphthalene	6.484	142	955	0.0018	ug/mL	96
6) Acenaphthylene	7.311	152	1724	0.0017	ug/mL	100
7) Acenaphthene	7.483	154	993	0.0017	ug/mL	90
8) Fluorene	8.006	166	1572	0.0020	ug/mL	95
10) Phenanthrene	8.968	178	2004	0.0018	ug/mL	93
11) Anthracene	9.021	178	1833	0.0017	ug/mL	97
12) Fluoranthene	10.205	202	2261	0.0018	ug/mL	96
13) Pyrene	10.476	202	2291	0.0018	ug/mL	94
14) p-Terphenyl	10.641	230	1880	0.0019	ug/mL	99
16) Benzo(a)anthracene	12.087	228	3003	0.0020	ug/mL	100
17) Chrysene	12.142	228	2194	0.0020	ug/mL	95
19) Benzo(b)fluoranthene	13.819	252	1723	0.0018	ug/mL	99
20) Benzo(k)fluoranthene	13.855	252	2035	0.0020	ug/mL	99
21) Benzo(a)pyrene	14.306	252	1452	0.0016	ug/mL	97
22) Indeno(1,2,3-cd)pyrene	15.984	276	2385	0.0021	ug/mL	99
23) Dibenzo(a,h)anthracene	15.997	278	1960	0.0021	ug/mL	98
24) Benzo(g,h,i)perylene	16.440	276	2194	0.0022	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1009.D
Acq On : 1 Mar 2013 16:46
Operator : jfi
Sample : aa23286-cal1
Misc : a3b0509
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 09:22:39 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Sat Mar 02 13:08:08 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1003.D
Acq On : 1 Mar 2013 14:29
Operator : jfi
Sample : aa23286-cal2
Misc : a3b0510
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 15:23:48 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 13:35:35 2013
Response via : Initial Calibration

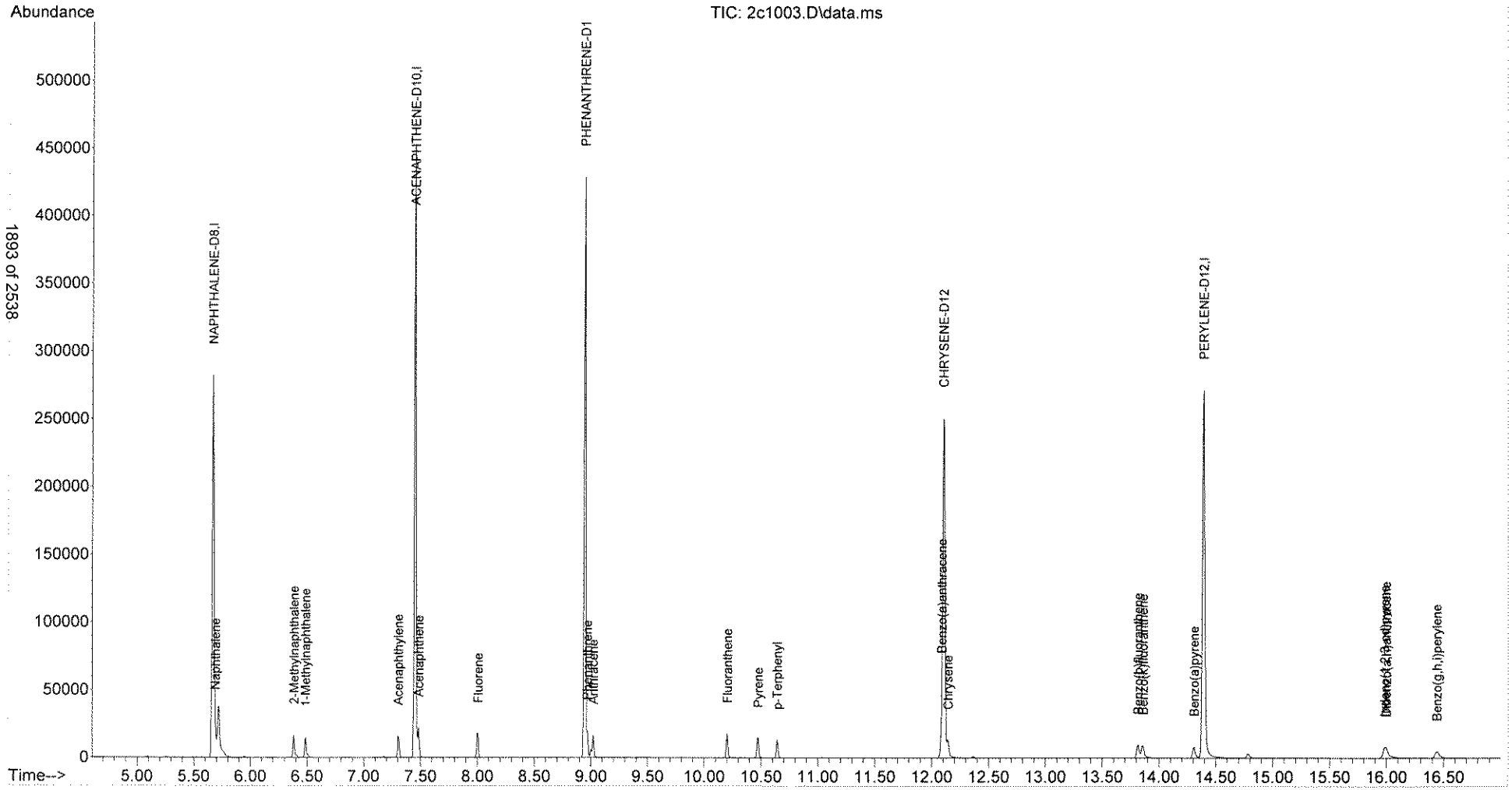
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.669	136	294062	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.453	164	216316	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.948	188	337552	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.104	240	341368	0.50	ug/mL	0.00
18) PERYLENE-D12	14.394	264	324604	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.689	128	8916	0.0086	ug/mL	100
3) 2-Methylnaphthalene	6.383	142	7976	0.0112	ug/mL	92
4) 1-Methylnaphthalene	6.484	142	7382	0.0112	ug/mL	92
6) Acenaphthylene	7.303	152	11349	0.0107	ug/mL	99
7) Acenaphthene	7.483	154	6506	0.0101	ug/mL	93
8) Fluorene	8.006	166	8804	0.0106	ug/mL	95
10) Phenanthrene	8.967	178	10828	0.0107	ug/mL	98
11) Anthracene	9.020	178	10685	0.0109	ug/mL	99
12) Fluoranthene	10.204	202	13187	0.0112	ug/mL	95
13) Pyrene	10.476	202	13056	0.0110	ug/mL	94
14) p-Terphenyl	10.641	230	10317	0.0107	ug/mL	100
16) Benzo(a)anthracene	12.087	228	11167	0.0099	ug/mL	97
17) Chrysene	12.142	228	10508	0.0101	ug/mL	96
19) Benzo(b)fluoranthene	13.815	252	9421	0.0099	ug/mL	99
20) Benzo(k)fluoranthene	13.857	252	10580	0.0110	ug/mL	98
21) Benzo(a)pyrene	14.308	252	8366	0.0100	ug/mL	99
22) Indeno(1,2,3-cd)pyrene	15.983	276	10110	0.0103	ug/mL	100
23) Dibenzo(a,h)anthracene	15.996	278	8326	0.0106	ug/mL	96
24) Benzo(g,h,i)perylene	16.439	276	9202	0.0104	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1003.D
Acq On : 1 Mar 2013 14:29
Operator : jfi
Sample : aa23286-cal2
Misc : a3b0510
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 15:23:48 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 13:35:35 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1004.D
Acq On : 1 Mar 2013 14:53
Operator : jfi
Sample : aa23286-cal3
Misc : a3b0511
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 15:24:12 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 13:35:35 2013
Response via : Initial Calibration

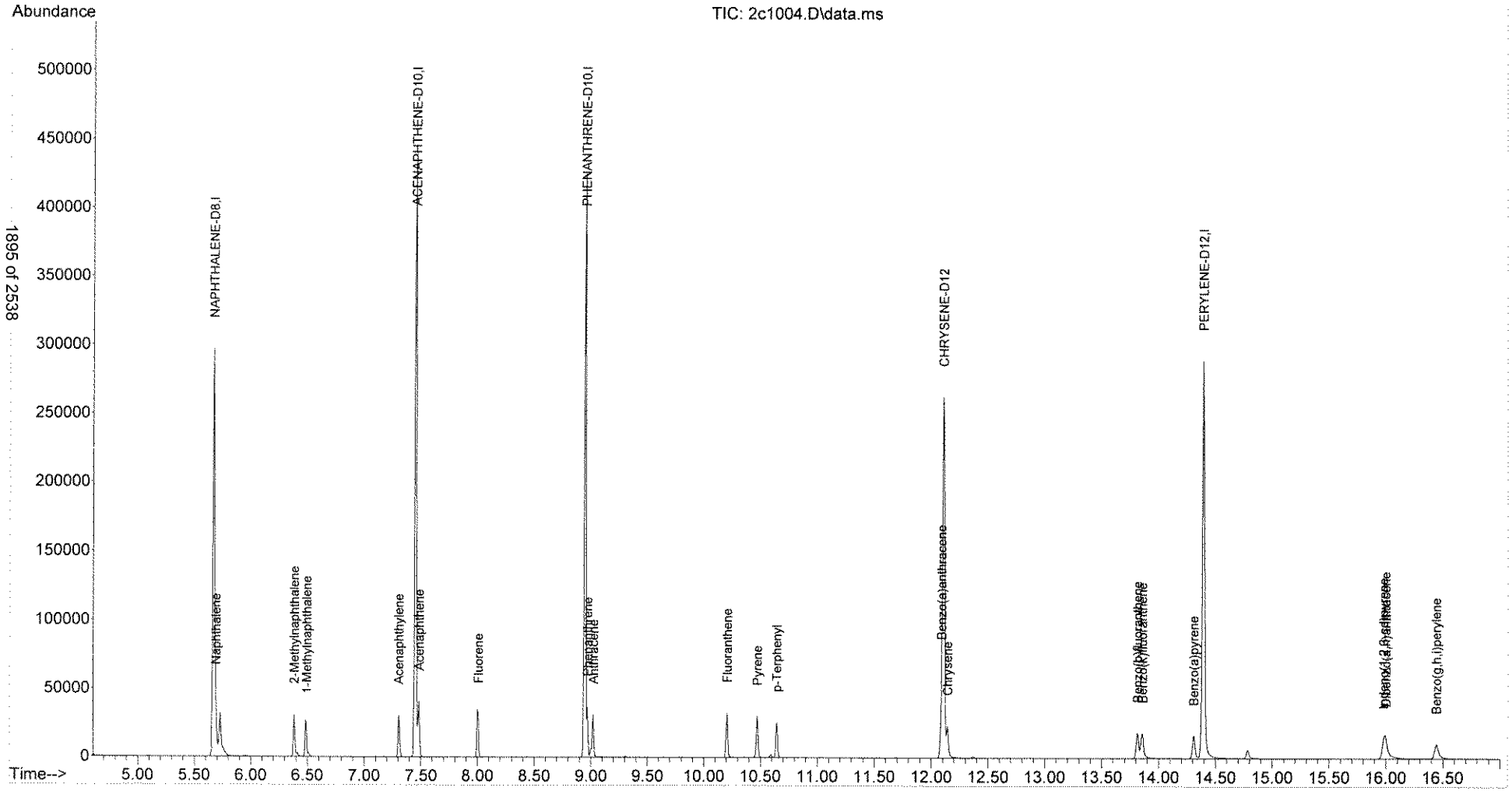
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.668	136	324993	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.453	164	221819	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.948	188	349541	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.104	240	346672	0.50	ug/mL	0.00
18) PERYLENE-D12	14.392	264	336491	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.688	128	16984	0.0148	ug/mL	98
3) 2-Methylnaphthalene	6.383	142	14797	0.0188	ug/mL	92
4) 1-Methylnaphthalene	6.491	142	13649	0.0187	ug/mL	92
6) Acenaphthylene	7.304	152	21376	0.0197	ug/mL	100
7) Acenaphthene	7.483	154	12337	0.0188	ug/mL	93
8) Fluorene	8.007	166	16663	0.0196	ug/mL	96
10) Phenanthrene	8.968	178	20578	0.0196	ug/mL	99
11) Anthracene	9.021	178	20304	0.0200	ug/mL	100
12) Fluoranthene	10.205	202	24548	0.0201	ug/mL	96
13) Pyrene	10.470	202	24156	0.0197	ug/mL	95
14) p-Terphenyl	10.642	230	19088	0.0192	ug/mL	100
16) Benzo(a)anthracene	12.087	228	19729	0.0173	ug/mL	96
17) Chrysene	12.142	228	19881	0.0189	ug/mL	96
19) Benzo(b)fluoranthene	13.813	252	18857	0.0190	ug/mL	100
20) Benzo(k)fluoranthene	13.855	252	18951	0.0190	ug/mL	99
21) Benzo(a)pyrene	14.306	252	16406	0.0190	ug/mL	99
22) Indeno(1,2,3-cd)pyrene	15.978	276	20263	0.0200	ug/mL	100
23) Dibenzo(a,h)anthracene	15.998	278	16466	0.0202	ug/mL	96
24) Benzo(g,h,i)perylene	16.441	276	18145	0.0197	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1004.D
Acq On : 1 Mar 2013 14:53
Operator : jfi
Sample : aa23286-cal3
Misc : a3b0511
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 15:24:12 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 13:35:35 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1005.D
Acq On : 1 Mar 2013 15:17
Operator : jfi
Sample : aa23286-cal4
Misc : a3b0512
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 15:38:35 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 13:35:35 2013
Response via : Initial Calibration

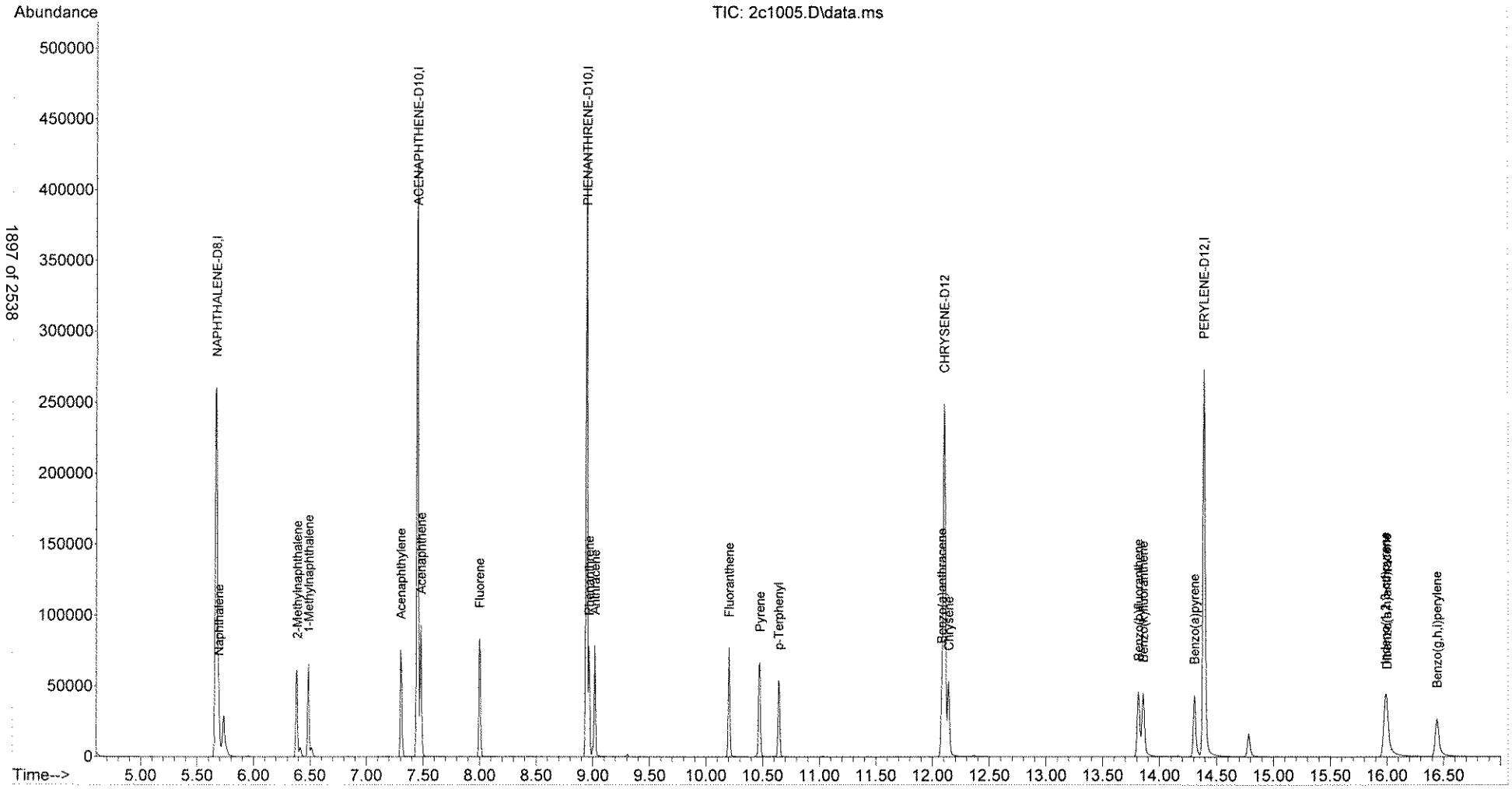
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.671	136	311303	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.453	164	213134	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.947	188	335228	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.104	240	332701	0.50	ug/mL	0.00
18) PERYLENE-D12	14.392	264	321337	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.691	128	39961	0.0364	ug/mL	99
3) 2-Methylnaphthalene	6.386	142	31021	0.0412	ug/mL	92
4) 1-Methylnaphthalene	6.487	142	28742	0.0411	ug/mL	94
6) Acenaphthylene	7.304	152	52640	0.0505	ug/mL	99
7) Acenaphthene	7.483	154	30558	0.0484	ug/mL	96
8) Fluorene	7.999	166	39623	0.0484	ug/mL	99
10) Phenanthrene	8.967	178	48854	0.0485	ug/mL	99
11) Anthracene	9.020	178	49033	0.0503	ug/mL	99
12) Fluoranthene	10.204	202	57132	0.0487	ug/mL	97
13) Pyrene	10.475	202	56507	0.0480	ug/mL	95
14) p-Terphenyl	10.640	230	44237	0.0463	ug/mL	99
16) Benzo(a)anthracene	12.082	228	48084	0.0439	ug/mL	96
17) Chrysene	12.142	228	47656	0.0471	ug/mL	96
19) Benzo(b)fluoranthene	13.814	252	46186	0.0488	ug/mL	99
20) Benzo(k)fluoranthene	13.856	252	45126	0.0475	ug/mL	98
21) Benzo(a)pyrene	14.307	252	41702	0.0505	ug/mL	99
22) Indeno(1,2,3-cd)pyrene	15.985	276	50367	0.0520	ug/mL	100
23) Dibenzo(a,h)anthracene	15.998	278	40540	0.0521	ug/mL	96
24) Benzo(g,h,i)perylene	16.441	276	44493	0.0506	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1005.D
Acq On : 1 Mar 2013 15:17
Operator : jfi
Sample : aa23286-cal4
Misc : a3b0512
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 15:38:35 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 13:35:35 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1006.D
Acq On : 1 Mar 2013 15:39
Operator : jfi
Sample : aa23286-cal5
Misc : a3b0513
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 15:57:20 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 15:40:53 2013
Response via : Initial Calibration

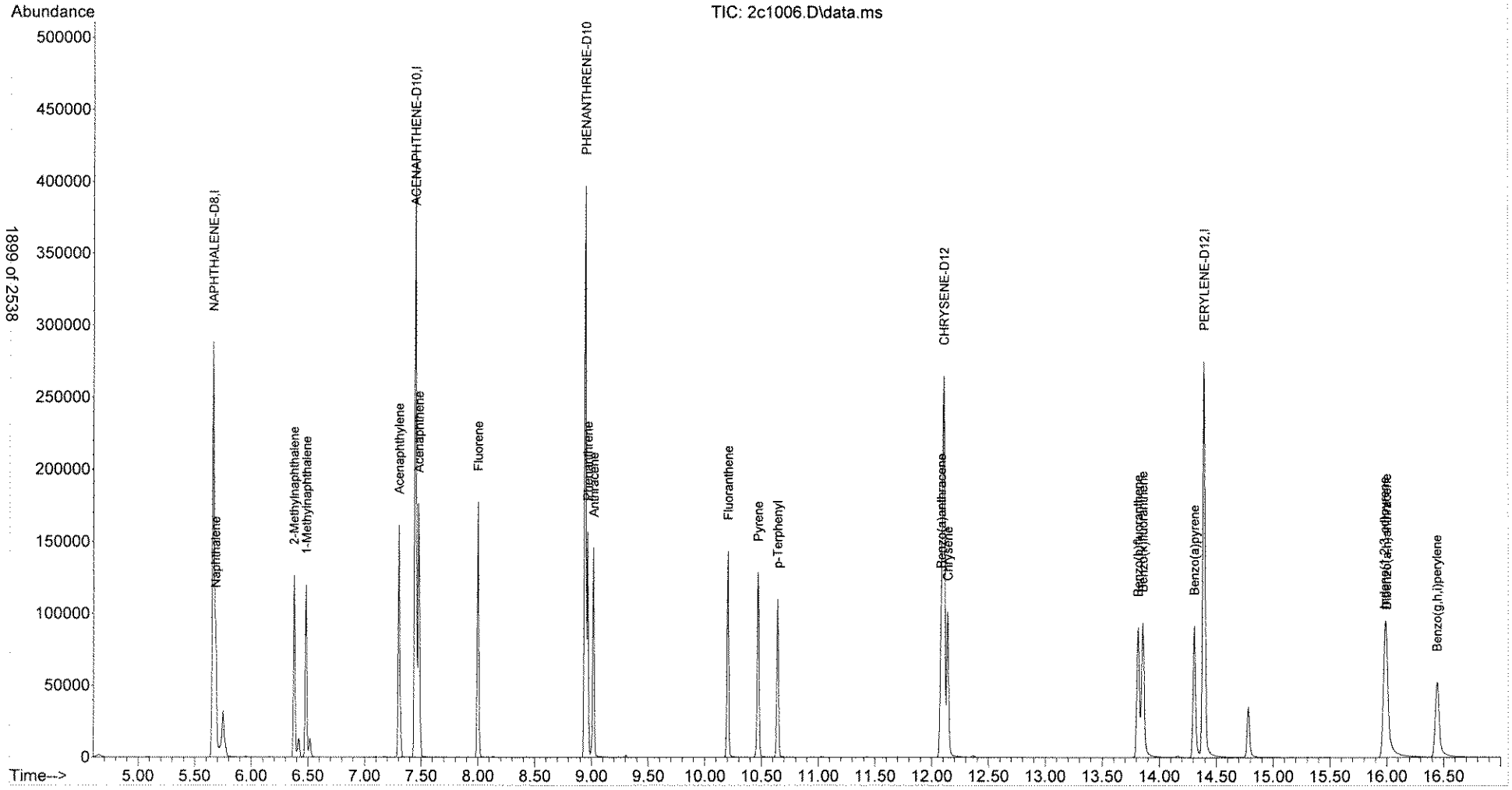
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.662	136	297603	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.447	164	205693	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.947	188	323160	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.104	240	341984	0.50	ug/mL	0.00
18) PERYLENE-D12	14.393	264	330576	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.682	128	77556	0.0667	ug/mL	98
3) 2-Methylnaphthalene	6.376	142	58873	0.0741	ug/mL	93
4) 1-Methylnaphthalene	6.484	142	55002	0.0746	ug/mL	92
6) Acenaphthylene	7.305	152	102733	0.0969	ug/mL	98
7) Acenaphthene	7.477	154	59276	0.0944	ug/mL	96
8) Fluorene	8.000	166	75854	0.0908	ug/mL	99
10) Phenanthrene	8.967	178	94195	0.0909	ug/mL	99
11) Anthracene	9.020	178	96306	0.0970	ug/mL	98
12) Fluoranthene	10.204	202	108065	0.0877	ug/mL	98
13) Pyrene	10.468	202	107847	0.0881	ug/mL	97
14) p-Terphenyl	10.640	230	85030	0.0870	ug/mL	98
16) Benzo(a)anthracene	12.082	228	95707	0.0809	ug/mL	96
17) Chrysene	12.142	228	94550	0.0898	ug/mL	95
19) Benzo(b)fluoranthene	13.814	252	92612	0.0930	ug/mL	99
20) Benzo(k)fluoranthene	13.856	252	90132	0.0872	ug/mL	97
21) Benzo(a)pyrene	14.307	252	85209	0.0991	ug/mL	98
22) Indeno(1,2,3-cd)pyrene	15.978	276	101527	0.0963	ug/mL	100
23) Dibenzo(a,h)anthracene	15.998	278	82569	0.0959	ug/mL	96
24) Benzo(g,h,i)perylene	16.441	276	89120	0.0934	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1006.D
Acq On : 1 Mar 2013 15:39
Operator : jfi
Sample : aa23286-cal5
Misc : a3b0513
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 15:57:20 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 15:40:53 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1007.D
Acq On : 1 Mar 2013 16:01
Operator : jfi
Sample : aa23286-cal6
Misc : a3b0514
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 16:27:02 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 16:00:17 2013
Response via : Initial Calibration

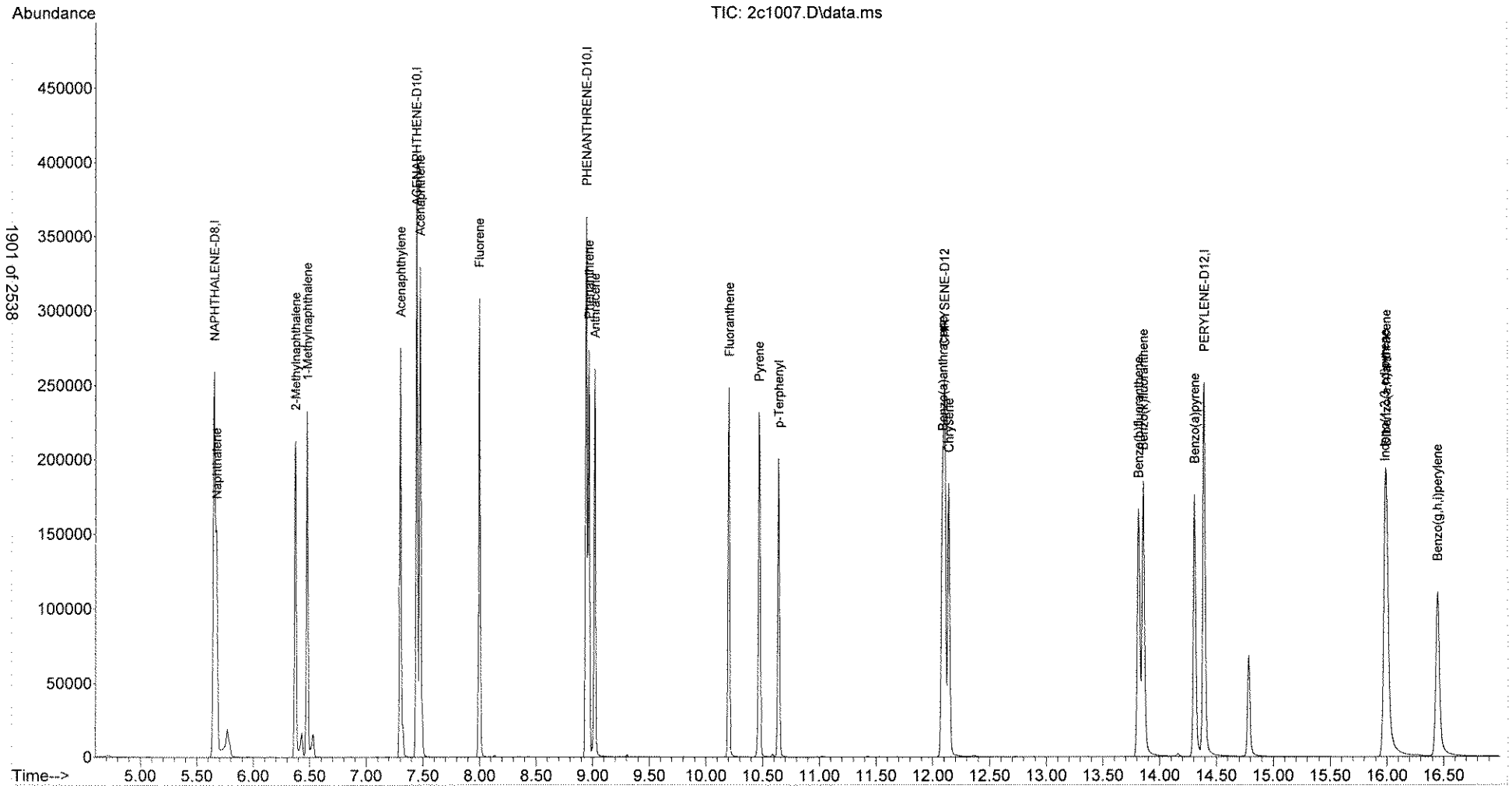
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.655	136	297149	0.50	ug/mL	-0.01
5) ACENAPHTHENE-D10	7.445	164	196694	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.947	188	310479	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.103	240	305197	0.50	ug/mL	0.00
18) PERYLENE-D12	14.393	264	305072	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.676	128	148313	0.1368	ug/mL	98
3) 2-Methylnaphthalene	6.377	142	109299	0.1453	ug/mL	93
4) 1-Methylnaphthalene	6.478	142	103668	0.1483	ug/mL	93
6) Acenaphthylene	7.303	152	184855	0.1834	ug/mL	97
7) Acenaphthene	7.475	154	109744	0.1849	ug/mL	96
8) Fluorene	7.999	166	135781	0.1732	ug/mL	99
10) Phenanthrene	8.967	178	170261	0.1741	ug/mL	97
11) Anthracene	9.020	178	173234	0.1826	ug/mL	96
12) Fluoranthene	10.204	202	188544	0.1632	ug/mL	100
13) Pyrene	10.469	202	189554	0.1651	ug/mL	99
14) p-Terphenyl	10.641	230	152101	0.1664	ug/mL	97
16) Benzo(a)anthracene	12.087	228	173146	0.1706	ug/mL	95
17) Chrysene	12.141	228	170719	0.1855	ug/mL	94
19) Benzo(b)fluoranthene	13.814	252	171874	0.1897	ug/mL	97
20) Benzo(k)fluoranthene	13.857	252	166766	0.1795	ug/mL	96
21) Benzo(a)pyrene	14.308	252	161911	0.2044	ug/mL	97
22) Indeno(1,2,3-cd)pyrene	15.984	276	195250	0.2021	ug/mL	98
23) Dibenzo(a,h)anthracene	15.997	278	161064	0.2043	ug/mL	96
24) Benzo(g,h,i)perylene	16.446	276	171128	0.1969	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1007.D
Acq On : 1 Mar 2013 16:01
Operator : jfi
Sample : aa23286-cal6
Misc : a3b0514
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 16:27:02 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 16:00:17 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1008.D
Acq On : 1 Mar 2013 16:22
Operator : jfi
Sample : aa23286-cal7
Misc : a3b0515
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 16:39:52 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 16:27:52 2013
Response via : Initial Calibration

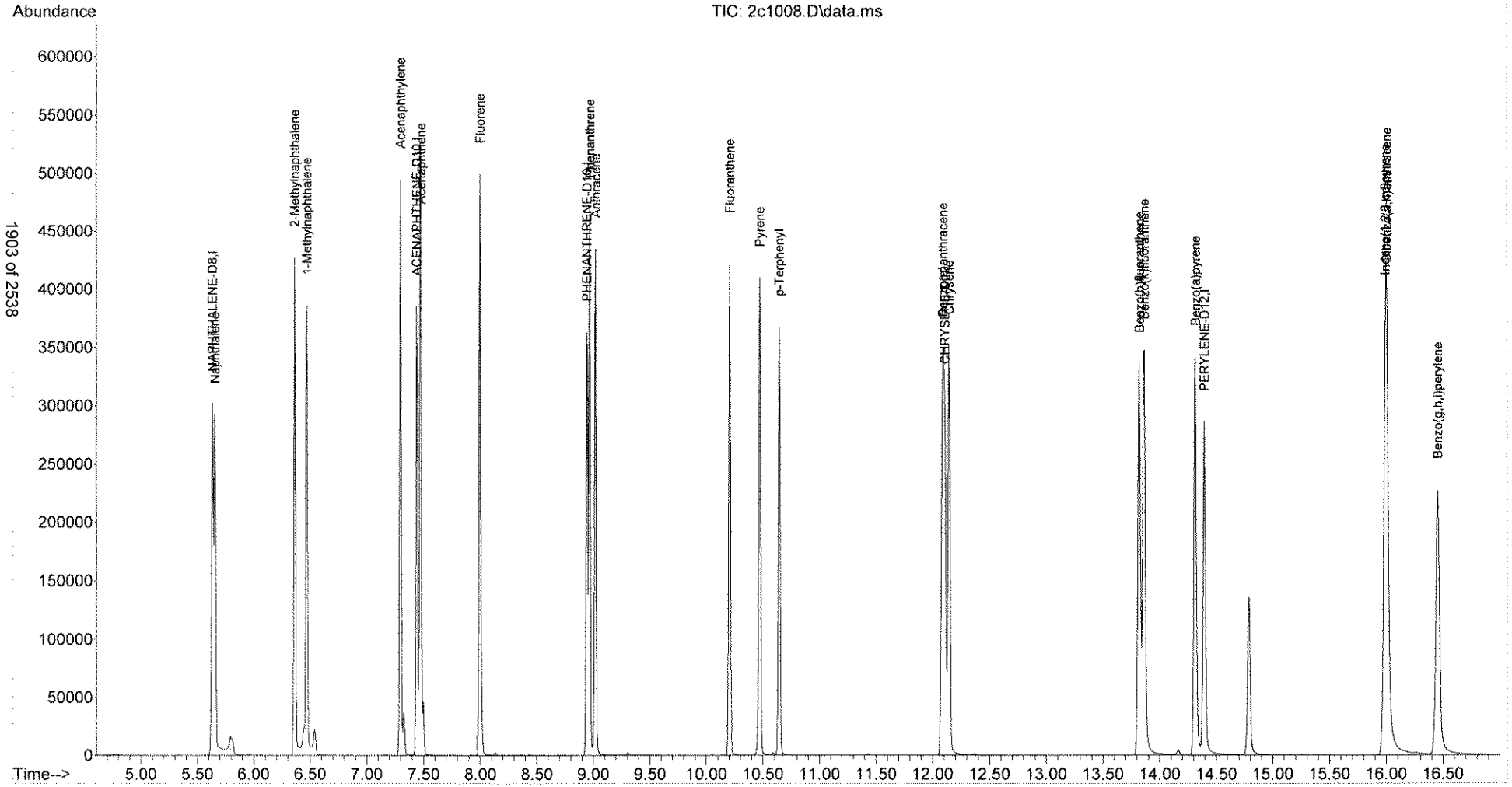
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.633	136	310863	0.50	ug/mL	-0.03
5) ACENAPHTHENE-D10	7.438	164	203967	0.50	ug/mL	-0.01
9) PHENANTHRENE-D10	8.941	188	323449	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.104	240	329016	0.50	ug/mL	0.00
18) PERYLENE-D12	14.394	264	330281	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.654	128	275102	0.2561	ug/mL	96
3) 2-Methylnaphthalene	6.362	142	199198	0.2652	ug/mL	93
4) 1-Methylnaphthalene	6.469	142	203785	0.2913	ug/mL	93
6) Acenaphthylene	7.296	152	304676	0.2956	ug/mL	94
7) Acenaphthene	7.476	154	197170	0.3244	ug/mL	96
8) Fluorene	7.999	166	243864	0.3068	ug/mL	99
10) Phenanthrene	8.968	178	305783	0.3068	ug/mL	95
11) Anthracene	9.021	178	311366	0.3197	ug/mL	93
12) Fluoranthene	10.205	202	336332	0.2883	ug/mL	98
13) Pyrene	10.469	202	343127	0.2954	ug/mL	99
14) p-Terphenyl	10.641	230	278995	0.3014	ug/mL	94
16) Benzo(a)anthracene	12.088	228	333027	0.3120	ug/mL	93
17) Chrysene	12.142	228	326406	0.3330	ug/mL	92
19) Benzo(b)fluoranthene	13.821	252	328115	0.3374	ug/mL	94
20) Benzo(k)fluoranthene	13.863	252	331877	0.3357	ug/mL	95
21) Benzo(a)pyrene	14.314	252	317153	0.3685	ug/mL	94
22) Indeno(1,2,3-cd)pyrene	15.990	276	386919	0.3693	ug/mL	96
23) Dibenzo(a,h)anthracene	16.003	278	319819	0.3734	ug/mL	93
24) Benzo(g,h,i)perylene	16.453	276	333423	0.3553	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1008.D
Acq On : 1 Mar 2013 16:22
Operator : jfi
Sample : aa23286-cal7
Misc : a3b0515
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 16:39:52 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Fri Mar 01 16:27:52 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1010.D
Acq On : 1 Mar 2013 17:07
Operator : jfi
Sample : aa23286-scv1
Misc : a3b0516
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 09:22:52 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Sat Mar 02 13:08:08 2013
Response via : Initial Calibration

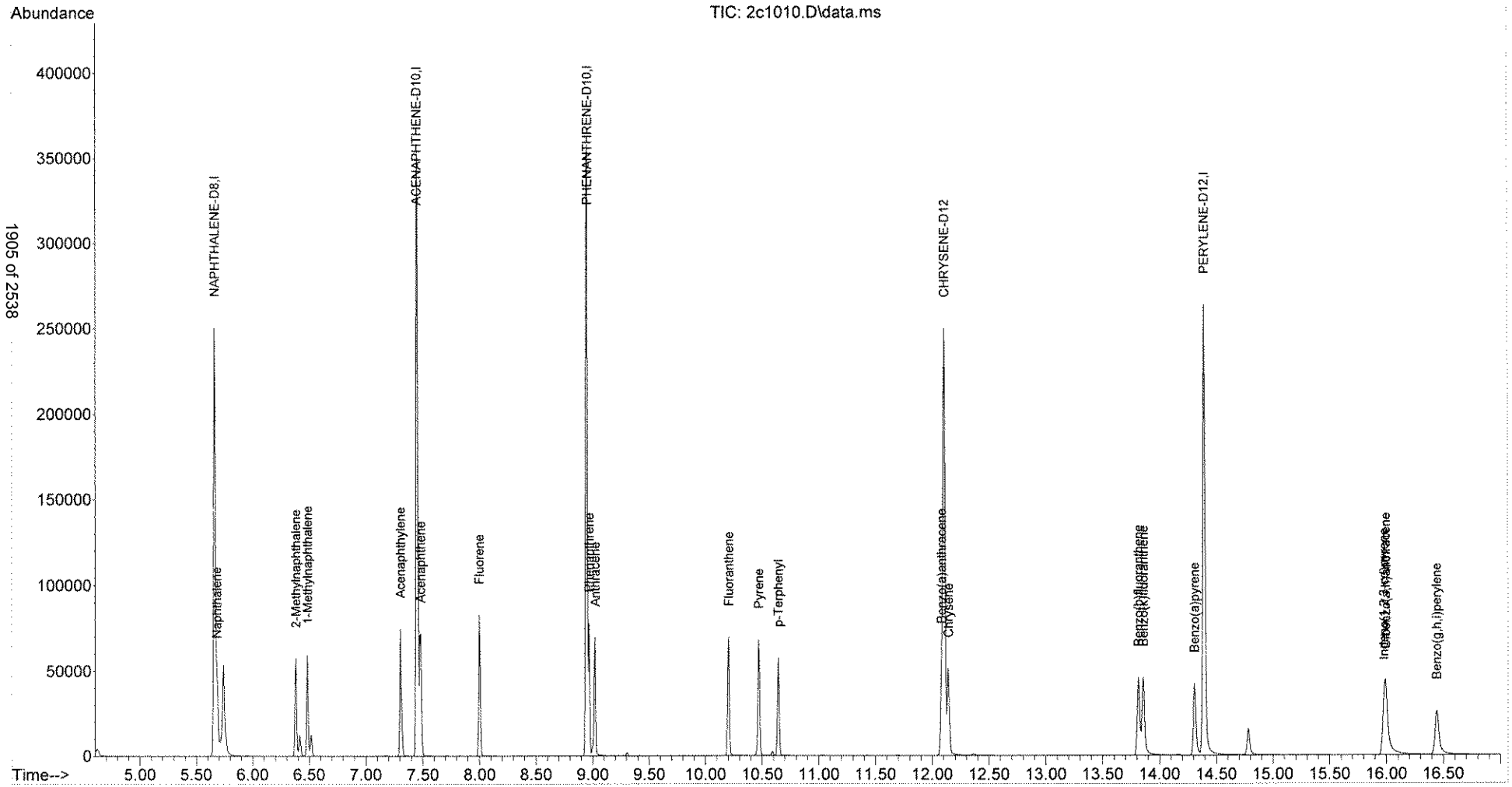
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) NAPHTHALENE-D8	5.660	136	266236	0.50	ug/mL	0.00
5) ACENAPHTHENE-D10	7.446	164	203886	0.50	ug/mL	0.00
9) PHENANTHRENE-D10	8.948	188	315328	0.50	ug/mL	0.00
15) CHRYSENE-D12	12.103	240	320415	0.50	ug/mL	0.00
18) PERYLENE-D12	14.392	264	307346	0.50	ug/mL	0.00
Target Compounds						Qvalue
2) Naphthalene	5.681	128	34045	0.0500	ug/mL	99
3) 2-Methylnaphthalene	6.382	142	27276	0.0477	ug/mL	92
4) 1-Methylnaphthalene	6.483	142	25067	0.0482	ug/mL	92
6) Acenaphthylene	7.304	152	50791	0.0527	ug/mL	100
7) Acenaphthene	7.483	154	29120	0.0515	ug/mL	95
8) Fluorene	7.999	166	37730	0.0500	ug/mL	99
10) Phenanthrene	8.968	178	46886	0.0518	ug/mL	99
11) Anthracene	9.021	178	47485	0.0529	ug/mL	100
12) Fluoranthene	10.205	202	55755	0.0534	ug/mL	97
13) Pyrene	10.470	202	55146	0.0528	ug/mL	96
14) p-Terphenyl	10.642	230	43755	0.0526	ug/mL	99
16) Benzo(a)anthracene	12.082	228	47550	0.0519	ug/mL	97
17) Chrysene	12.141	228	47332	0.0513	ug/mL	96
19) Benzo(b)fluoranthene	13.813	252	45844	0.0536	ug/mL	99
20) Benzo(k)fluoranthene	13.855	252	44725	0.0505	ug/mL	98
21) Benzo(a)pyrene	14.306	252	41007	0.0531	ug/mL	99
22) Indeno(1,2,3-cd)pyrene	15.978	276	48609	0.0496	ug/mL	100
23) Dibenzo(a,h)anthracene	15.991	278	39036	0.0486	ug/mL	96
24) Benzo(g,h,i)perylene	16.440	276	42822	0.0490	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030113\
Data File : 2c1010.D
Acq On : 1 Mar 2013 17:07
Operator : jfi
Sample : aa23286-scv1
Misc : a3b0516
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 09:22:52 2013
Quant Method : C:\msdchem\1\METHODS\SM030113ptv.M
Quant Title : SOP SVGCMS-03; ELEMENT CAL 1212088; INST OSVGCMS2
QLast Update : Sat Mar 02 13:08:08 2013
Response via : Initial Calibration



ENCO Orlando

SDG: A303499-CTO0020

CLASS: 13_PEST

METHOD: EPA 8081B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Client Sample Id:	Lab Sample Id:
TR-2ND-SB07-0.5-01-0613	A303499-06
TR-2ND-SB07-0.5-01-0613	A303499-06RE1
TR-2ND-SB07-04-06-0613	A303499-07
TR-2ND-SB07-04-06-0613	A303499-07RE1
TR-2ND-SB06-0.5-01-0613	A303499-09
TR-2ND-SB06-0.5-01-0613	A303499-09RE1
TR-2ND-SB06-05-07-0613	A303499-10
TR-2ND-SB06-05-07-0613	A303499-10RE1
TR-2ND-SB06D-0.5-01-0613	A303499-11
TR-2ND-SB06D-05-07-0613	A303499-12
TR-2ND-SB04-0.5-01-0613	A303499-14
TR-2ND-SB04-0.5-01-0613	A303499-14RE1
TR-2ND-SB04-04-06-0613	A303499-15
TR-2ND-SB04-04-06-0613	A303499-15RE1
TR-2ND-SB05-0.5-01-0613	A303499-17
TR-2ND-SB05-0.5-01-0613	A303499-17RE1
TR-2ND-SB05-03-05-0613	A303499-18
TR-2ND-SB05-03-05-0613	A303499-18RE1
TR-2ND-SB03-0.5-01-0613	A303499-19
TR-2ND-SB03-0.5-01-0613	A303499-19RE1
TR-2ND-SB03-04-06-0613	A303499-20
TR-2ND-SB03-04-06-0613	A303499-20RE1
TR-2ND-SB02-0.5-1-0613	A303499-21
TR-2ND-SB02-0.5-1-0613	A303499-21RE1
TR-2ND-SB02-06-08-0613	A303499-22
TR-2ND-SB02-06-08-0613	A303499-22RE1

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	2FU039.D
Sampled:	06/19/13 10:20	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 17:56
Solids:	84.46	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch:	3F24028	Sequence:	AA24704	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.66	1.2	2.0
58-89-9	gamma-BHC	1	<1.2	U	0.59	1.2	2.0
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.0
319-86-8	delta-BHC	1	<1.2	U	0.59	1.2	2.0
76-44-8	Heptachlor	1	<1.2	U	0.73	1.2	2.0
309-00-2	Aldrin	1	<1.2	U	0.58	1.2	2.0
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.57	1.2	2.0
5566-34-7	Chlordane-gamma	1	<1.2	U	0.53	1.2	2.0
5103-71-9	Chlordane-alpha	1	<1.2	U	0.53	1.2	2.0
72-55-9	4,4'-DDE	1	<1.2	U	0.62	1.2	2.0
959-98-8	Endosulfan I	1	<1.2	U	0.46	1.2	2.0
60-57-1	Dieldrin	1	<1.2	U	0.53	1.2	2.0
72-20-8	Endrin	1	<1.2	U	0.88	1.2	2.0
72-54-8	4,4'-DDD	1	<1.2	U	0.57	1.2	2.0
33213-65-9	Endosulfan II	1	<1.2	U	0.57	1.2	2.0
50-29-3	4,4'-DDT	1	<1.2	U	0.78	1.2	2.0
7421-93-4	Endrin aldehyde	1	<1.2	U	0.98	1.2	2.0
72-43-5	Methoxychlor	1	<1.2	U	1.0	1.2	2.0
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.58	1.2	2.0
53494-70-5	Endrin ketone	1	<1.2	U	0.53	1.2	2.0
8001-35-2	Toxaphene	1	<24	U	12	24	39

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.5	17	42	70 - 125	*
2,4,5,6-TCMX [2C]	39.5	20	51	70 - 125	*
Decachlorobiphenyl	39.5	16	39	55 - 130	*
Decachlorobiphenyl [2C]	39.5	17	43	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	695900000	5.288	3.764E+08	5.31	
DBC [2C]	321400000	5.185	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06RE1	File ID:	2FX025.D
Sampled:	06/19/13 10:20	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:00
Solids:	84.46	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC [2C]	1	<1.2	U	0.66	1.2	2.0
58-89-9	gamma-BHC [2C]	1	<1.2	U	0.59	1.2	2.0
319-85-7	beta-BHC [2C]	1	<1.2	U	1.2	1.2	2.0
319-86-8	delta-BHC [2C]	1	<1.2	U	0.59	1.2	2.0
76-44-8	Heptachlor [2C]	1	<1.2	U	0.73	1.2	2.0
309-00-2	Aldrin [2C]	1	<1.2	U	0.58	1.2	2.0
1024-57-3	Heptachlor epoxide [2C]	1	<1.2	U	0.57	1.2	2.0
5566-34-7	Chlordane-gamma [2C]	1	<1.2	U	0.53	1.2	2.0
5103-71-9	Chlordane-alpha [2C]	1	<1.2	U	0.53	1.2	2.0
72-55-9	4,4'-DDE [2C]	1	<1.2	U	0.62	1.2	2.0
959-98-8	Endosulfan I [2C]	1	<1.2	U	0.46	1.2	2.0
60-57-1	Dieldrin [2C]	1	<1.2	U	0.53	1.2	2.0
72-20-8	Endrin [2C]	1	<1.2	U	0.88	1.2	2.0
72-54-8	4,4'-DDD [2C]	1	<1.2	U	0.57	1.2	2.0
33213-65-9	Endosulfan II [2C]	1	<1.2	U	0.57	1.2	2.0
50-29-3	4,4'-DDT [2C]	1	<1.2	U	0.78	1.2	2.0
7421-93-4	Endrin aldehyde [2C]	1	<1.2	U	0.98	1.2	2.0
72-43-5	Methoxychlor [2C]	1	<1.2	U	1.0	1.2	2.0
1031-07-8	Endosulfan sulfate [2C]	1	<1.2	U	0.58	1.2	2.0
53494-70-5	Endrin ketone [2C]	1	<1.2	U	0.53	1.2	2.0
8001-35-2	Toxaphene	1	<24	U	12	24	39

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.5	14	34	70 - 125	*
2,4,5,6-TCMX [2C]	39.5	24	60	70 - 125	*
Decachlorobiphenyl	39.5	14	36	55 - 130	*
Decachlorobiphenyl [2C]	39.5	24	61	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	1053100000	5.264	3.764E+08	5.31	*
DBC [2C]	353200000	5.166	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	2FU040.D
Sampled:	06/19/13 10:40	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:08
Solids:	80.68	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.69	1.2	2.1
58-89-9	gamma-BHC	1	<1.2	U	0.62	1.2	2.1
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.1
319-86-8	delta-BHC	1	<1.2	U	0.62	1.2	2.1
76-44-8	Heptachlor	1	<1.2	U	0.77	1.2	2.1
309-00-2	Aldrin	1	<1.2	U	0.61	1.2	2.1
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.59	1.2	2.1
5566-34-7	Chlordane-gamma	1	<1.2	U	0.56	1.2	2.1
5103-71-9	Chlordane-alpha	1	<1.2	U	0.56	1.2	2.1
72-55-9	4,4'-DDE	1	<1.2	U	0.64	1.2	2.1
959-98-8	Endosulfan I	1	<1.2	U	0.48	1.2	2.1
60-57-1	Dieldrin	1	<1.2	U	0.56	1.2	2.1
72-20-8	Endrin	1	<1.2	U	0.92	1.2	2.1
72-54-8	4,4'-DDD	1	<1.2	U	0.59	1.2	2.1
33213-65-9	Endosulfan II	1	<1.2	U	0.59	1.2	2.1
50-29-3	4,4'-DDT	1	<1.2	U	0.82	1.2	2.1
7421-93-4	Endrin aldehyde	1	<1.2	U	1.0	1.2	2.1
72-43-5	Methoxychlor	1	<1.2	U	1.1	1.2	2.1
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.61	1.2	2.1
53494-70-5	Endrin ketone	1	<1.2	U	0.56	1.2	2.1
8001-35-2	Toxaphene	1	<25	U	12	25	41

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.3	21	51	70 - 125	*
2,4,5,6-TCMX [2C]	41.3	22	52	70 - 125	*
Decachlorobiphenyl	41.3	22	54	55 - 130	*
Decachlorobiphenyl [2C]	41.3	21	50	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	527500000	5.29	3.764E+08	5.31	
DBC [2C]	303400000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07RE1	File ID:	2FX026.D
Sampled:	06/19/13 10:40	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:12
Solids:	80.68	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.69	1.2	2.1
58-89-9	gamma-BHC	1	<1.2	U	0.62	1.2	2.1
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.1
319-86-8	delta-BHC	1	<1.2	U	0.62	1.2	2.1
76-44-8	Heptachlor	1	<1.2	U	0.77	1.2	2.1
309-00-2	Aldrin	1	<1.2	U	0.61	1.2	2.1
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.59	1.2	2.1
5566-34-7	Chlordane-gamma	1	<1.2	U	0.56	1.2	2.1
5103-71-9	Chlordane-alpha	1	<1.2	U	0.56	1.2	2.1
72-55-9	4,4'-DDE	1	<1.2	U	0.64	1.2	2.1
959-98-8	Endosulfan I	1	<1.2	U	0.48	1.2	2.1
60-57-1	Dieldrin	1	<1.2	U	0.56	1.2	2.1
72-20-8	Endrin	1	<1.2	U	0.92	1.2	2.1
72-54-8	4,4'-DDD	1	<1.2	U	0.59	1.2	2.1
33213-65-9	Endosulfan II	1	<1.2	U	0.59	1.2	2.1
50-29-3	4,4'-DDT	1	<1.2	U	0.82	1.2	2.1
7421-93-4	Endrin aldehyde	1	<1.2	U	1.0	1.2	2.1
72-43-5	Methoxychlor	1	<1.2	U	1.1	1.2	2.1
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.61	1.2	2.1
53494-70-5	Endrin ketone	1	<1.2	U	0.56	1.2	2.1
8001-35-2	Toxaphene	1	<25	U	12	25	41

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.2	23	57	70 - 125	*
2,4,5,6-TCMX [2C]	41.2	25	62	70 - 125	*
Decachlorobiphenyl	41.2	25	60	55 - 130	
Decachlorobiphenyl [2C]	41.2	26	63	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	637000000	5.268	3.764E+08	5.31	
DBC [2C]	345600000	5.165	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	2FU041.D
Sampled:	06/19/13 11:20	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:20
Solids:	84.06	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.67	1.2	2.0
58-89-9	gamma-BHC	1	<1.2	U	0.59	1.2	2.0
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.0
319-86-8	delta-BHC	1	<1.2	U	0.59	1.2	2.0
76-44-8	Heptachlor	1	<1.2	U	0.74	1.2	2.0
309-00-2	Aldrin	1	<1.2	U	0.58	1.2	2.0
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.57	1.2	2.0
5566-34-7	Chlordane-gamma	1	<1.2	U	0.54	1.2	2.0
5103-71-9	Chlordane-alpha	1	<1.2	U	0.54	1.2	2.0
72-55-9	4,4'-DDE	1	<1.2	U	0.62	1.2	2.0
959-98-8	Endosulfan I	1	<1.2	U	0.46	1.2	2.0
60-57-1	Dieldrin	1	<1.2	U	0.54	1.2	2.0
72-20-8	Endrin	1	<1.2	U	0.88	1.2	2.0
72-54-8	4,4'-DDD	1	<1.2	U	0.57	1.2	2.0
33213-65-9	Endosulfan II	1	<1.2	U	0.57	1.2	2.0
50-29-3	4,4'-DDT	1	<1.2	U	0.79	1.2	2.0
7421-93-4	Endrin aldehyde	1	<1.2	U	0.99	1.2	2.0
72-43-5	Methoxychlor	1	<1.2	U	1.0	1.2	2.0
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.58	1.2	2.0
53494-70-5	Endrin ketone	1	<1.2	U	0.54	1.2	2.0
8001-35-2	Toxaphene	1	<24	U	12	24	39

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.1	24	61	70 - 125	*
2,4,5,6-TCMX [2C]	39.1	25	64	70 - 125	*
Decachlorobiphenyl	39.1	20	50	55 - 130	*
Decachlorobiphenyl [2C]	39.1	20	51	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	584700000	5.289	3.764E+08	5.31	
DBC [2C]	318600000	5.184	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-09RE1	File ID:	2FX027.D
Sampled:	06/19/13 11:20	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:24
Solids:	84.06	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch:	3F28005	Sequence:	AA24761	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.67	1.2	2.0
58-89-9	gamma-BHC	1	<1.2	U	0.59	1.2	2.0
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.0
319-86-8	delta-BHC	1	<1.2	U	0.59	1.2	2.0
76-44-8	Heptachlor	1	<1.2	U	0.74	1.2	2.0
309-00-2	Aldrin	1	<1.2	U	0.58	1.2	2.0
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.57	1.2	2.0
5566-34-7	Chlordane-gamma	1	<1.2	U	0.54	1.2	2.0
5103-71-9	Chlordane-alpha	1	<1.2	U	0.54	1.2	2.0
72-55-9	4,4'-DDE	1	<1.2	U	0.62	1.2	2.0
959-98-8	Endosulfan I	1	<1.2	U	0.46	1.2	2.0
60-57-1	Dieldrin	1	<1.2	U	0.54	1.2	2.0
72-20-8	Endrin	1	<1.2	U	0.88	1.2	2.0
72-54-8	4,4'-DDD	1	<1.2	U	0.57	1.2	2.0
33213-65-9	Endosulfan II	1	<1.2	U	0.57	1.2	2.0
50-29-3	4,4'-DDT	1	<1.2	U	0.79	1.2	2.0
7421-93-4	Endrin aldehyde	1	<1.2	U	0.99	1.2	2.0
72-43-5	Methoxychlor	1	<1.2	U	1.0	1.2	2.0
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.58	1.2	2.0
53494-70-5	Endrin ketone	1	<1.2	U	0.54	1.2	2.0
8001-35-2	Toxaphene	1	<24	U	12	24	39

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.7	28	69	70 - 125	*
2,4,5,6-TCMX [2C]	39.7	27	67	70 - 125	*
Decachlorobiphenyl	39.7	24	61	55 - 130	
Decachlorobiphenyl [2C]	39.7	24	61	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	584700000	5.27	3.764E+08	5.31	
DBC [2C]	341800000	5.167	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	2FU042.D
Sampled:	06/19/13 11:30	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:32
Solids:	79.06	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.71	1.3	2.2
58-89-9	gamma-BHC	1	<1.3	U	0.63	1.3	2.2
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.2
319-86-8	delta-BHC	1	<1.3	U	0.63	1.3	2.2
76-44-8	Heptachlor	1	<1.3	U	0.78	1.3	2.2
309-00-2	Aldrin	1	<1.3	U	0.62	1.3	2.2
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.61	1.3	2.2
5566-34-7	Chlordane-gamma	1	<1.3	U	0.57	1.3	2.2
5103-71-9	Chlordane-alpha	1	<1.3	U	0.57	1.3	2.2
72-55-9	4,4'-DDE	1	<1.3	U	0.66	1.3	2.2
959-98-8	Endosulfan I	1	<1.3	U	0.49	1.3	2.2
60-57-1	Dieldrin	1	<1.3	U	0.57	1.3	2.2
72-20-8	Endrin	1	<1.3	U	0.94	1.3	2.2
72-54-8	4,4'-DDD	1	<1.3	U	0.61	1.3	2.2
33213-65-9	Endosulfan II	1	<1.3	U	0.61	1.3	2.2
50-29-3	4,4'-DDT	1	<1.3	U	0.83	1.3	2.2
7421-93-4	Endrin aldehyde	1	<1.3	U	1.0	1.3	2.2
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.2
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.62	1.3	2.2
53494-70-5	Endrin ketone	1	<1.3	U	0.57	1.3	2.2
8001-35-2	Toxaphene	1	<25	U	13	25	42

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.6	19	44	70 - 125	*
2,4,5,6-TCMX [2C]	41.6	19	46	70 - 125	*
Decachlorobiphenyl	41.6	22	54	55 - 130	*
Decachlorobiphenyl [2C]	41.6	20	47	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	523300000	5.29	3.764E+08	5.31	
DBC [2C]	304400000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10RE1	File ID:	2FX028.D
Sampled:	06/19/13 11:30	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:36
Solids:	79.06	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.71	1.3	2.2
58-89-9	gamma-BHC	1	<1.3	U	0.63	1.3	2.2
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.2
319-86-8	delta-BHC	1	<1.3	U	0.63	1.3	2.2
76-44-8	Heptachlor	1	<1.3	U	0.78	1.3	2.2
309-00-2	Aldrin	1	<1.3	U	0.62	1.3	2.2
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.61	1.3	2.2
5566-34-7	Chlordane-gamma	1	<1.3	U	0.57	1.3	2.2
5103-71-9	Chlordane-alpha	1	<1.3	U	0.57	1.3	2.2
72-55-9	4,4'-DDE	1	<1.3	U	0.66	1.3	2.2
959-98-8	Endosulfan I	1	<1.3	U	0.49	1.3	2.2
60-57-1	Dieldrin	1	<1.3	U	0.57	1.3	2.2
72-20-8	Endrin	1	<1.3	U	0.94	1.3	2.2
72-54-8	4,4'-DDD	1	<1.3	U	0.61	1.3	2.2
33213-65-9	Endosulfan II	1	<1.3	U	0.61	1.3	2.2
50-29-3	4,4'-DDT	1	<1.3	U	0.83	1.3	2.2
7421-93-4	Endrin aldehyde	1	<1.3	U	1.0	1.3	2.2
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.2
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.62	1.3	2.2
53494-70-5	Endrin ketone	1	<1.3	U	0.57	1.3	2.2
8001-35-2	Toxaphene	1	<25	U	13	25	42

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.9	34	81	70 - 125	
2,4,5,6-TCMX [2C]	41.9	32	77	70 - 125	
Decachlorobiphenyl	41.9	32	76	55 - 130	
Decachlorobiphenyl [2C]	41.9	31	75	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	520200000	5.27	3.764E+08	5.31	
DBC [2C]	311900000	5.168	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB06D-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	2FU043.D
Sampled:	06/19/13 11:25	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:44
Solids:	83.39	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	2	<2.4	UD	1.3	2.4	4.1
58-89-9	gamma-BHC	2	<2.4	UD	1.2	2.4	4.1
319-85-7	beta-BHC	2	<2.4	UD	2.4	2.4	4.1
319-86-8	delta-BHC	2	<2.4	UD	1.2	2.4	4.1
76-44-8	Heptachlor	2	<2.4	UD	1.5	2.4	4.1
309-00-2	Aldrin	2	<2.4	UD	1.2	2.4	4.1
1024-57-3	Heptachlor epoxide	2	<2.4	UD	1.2	2.4	4.1
5566-34-7	Chlordane-gamma	2	<2.4	UD	1.1	2.4	4.1
5103-71-9	Chlordane-alpha	2	<2.4	UD	1.1	2.4	4.1
72-55-9	4,4'-DDE	2	<2.4	UD	1.2	2.4	4.1
959-98-8	Endosulfan I	2	<2.4	UD	0.94	2.4	4.1
60-57-1	Dieldrin	2	<2.4	UD	1.1	2.4	4.1
72-20-8	Endrin	2	<2.4	UD	1.8	2.4	4.1
72-54-8	4,4'-DDD	2	<2.4	UD	1.2	2.4	4.1
33213-65-9	Endosulfan II	2	<2.4	UD	1.2	2.4	4.1
50-29-3	4,4'-DDT	2	<2.4	UD	1.6	2.4	4.1
7421-93-4	Endrin aldehyde	2	<2.4	UD	2.0	2.4	4.1
72-43-5	Methoxychlor	2	<2.4	UD	2.1	2.4	4.1
1031-07-8	Endosulfan sulfate	2	<2.4	UD	1.2	2.4	4.1
53494-70-5	Endrin ketone	2	<2.4	UD	1.1	2.4	4.1
8001-35-2	Toxaphene	2	<48	UD	24	48	79

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.4	31	77	70 - 125	
2,4,5,6-TCMX [2C]	39.4	33	82	70 - 125	
Decachlorobiphenyl	39.4	27	68	55 - 130	
Decachlorobiphenyl [2C]	39.4	23	59	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	456900000	5.29	3.764E+08	5.31	
DBC [2C]	255400000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	2FU044.D
Sampled:	06/19/13 11:35	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:56
Solids:	78.23	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.72	1.3	2.2
58-89-9	gamma-BHC	1	<1.3	U	0.64	1.3	2.2
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.2
319-86-8	delta-BHC	1	<1.3	U	0.64	1.3	2.2
76-44-8	Heptachlor	1	<1.3	U	0.79	1.3	2.2
309-00-2	Aldrin	1	<1.3	U	0.63	1.3	2.2
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.61	1.3	2.2
5566-34-7	Chlordane-gamma	1	<1.3	U	0.58	1.3	2.2
5103-71-9	Chlordane-alpha	1	<1.3	U	0.58	1.3	2.2
72-55-9	4,4'-DDE	1	<1.3	U	0.66	1.3	2.2
959-98-8	Endosulfan I	1	<1.3	U	0.50	1.3	2.2
60-57-1	Dieldrin	1	<1.3	U	0.58	1.3	2.2
72-20-8	Endrin	1	<1.3	U	0.95	1.3	2.2
72-54-8	4,4'-DDD	1	<1.3	U	0.61	1.3	2.2
33213-65-9	Endosulfan II	1	<1.3	U	0.61	1.3	2.2
50-29-3	4,4'-DDT	1	<1.3	U	0.84	1.3	2.2
7421-93-4	Endrin aldehyde	1	<1.3	U	1.1	1.3	2.2
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.2
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.63	1.3	2.2
53494-70-5	Endrin ketone	1	<1.3	U	0.58	1.3	2.2
8001-35-2	Toxaphene	1	<26	U	13	26	42

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	42.5	29	68	70 - 125	*
2,4,5,6-TCMX [2C]	42.5	30	70	70 - 125	
Decachlorobiphenyl	42.5	27	64	55 - 130	
Decachlorobiphenyl [2C]	42.5	28	66	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	431300000	5.289	3.764E+08	5.31	
DBC [2C]	248700000	5.185	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	2FU045.D
Sampled:	06/19/13 12:50	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:08
Solids:	85.68	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch:	3F24028	Sequence:	AA24704	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC [2C]	2	<2.3	UD	1.3	2.3	4.0
58-89-9	gamma-BHC [2C]	2	<2.3	UD	1.2	2.3	4.0
319-85-7	beta-BHC [2C]	2	<2.3	UD	2.3	2.3	4.0
319-86-8	delta-BHC [2C]	2	<2.3	UD	1.2	2.3	4.0
76-44-8	Heptachlor [2C]	2	<2.3	UD	1.4	2.3	4.0
309-00-2	Aldrin [2C]	2	<2.3	UD	1.1	2.3	4.0
1024-57-3	Heptachlor epoxide [2C]	2	<2.3	UD	1.1	2.3	4.0
5566-34-7	Chlordane-gamma [2C]	2	<2.3	UD	1.1	2.3	4.0
5103-71-9	Chlordane-alpha [2C]	2	<2.3	UD	1.1	2.3	4.0
72-55-9	4,4'-DDE [2C]	2	<2.3	UD	1.2	2.3	4.0
959-98-8	Endosulfan I [2C]	2	<2.3	UD	0.91	2.3	4.0
60-57-1	Dieldrin [2C]	2	<2.3	UD	1.1	2.3	4.0
72-20-8	Endrin [2C]	2	<2.3	UD	1.7	2.3	4.0
72-54-8	4,4'-DDD [2C]	2	<2.3	UD	1.1	2.3	4.0
33213-65-9	Endosulfan II [2C]	2	<2.3	UD	1.1	2.3	4.0
50-29-3	4,4'-DDT [2C]	2	<2.3	UD	1.5	2.3	4.0
7421-93-4	Endrin aldehyde [2C]	2	<2.3	UD	1.9	2.3	4.0
72-43-5	Methoxychlor [2C]	2	<2.3	UD	2.0	2.3	4.0
1031-07-8	Endosulfan sulfate [2C]	2	<2.3	UD	1.1	2.3	4.0
53494-70-5	Endrin ketone [2C]	2	<2.3	UD	1.1	2.3	4.0
8001-35-2	Toxaphene	2	<47	UD	23	47	77

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	38.8	14	36	70 - 125	*
2,4,5,6-TCMX [2C]	38.8	21	54	70 - 125	*
Decachlorobiphenyl	38.8	16	41	55 - 130	*
Decachlorobiphenyl [2C]	38.8	27	71	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	817200000	5.288	3.764E+08	5.31	*
DBC [2C]	288700000	5.185	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-14RE1	File ID:	2FX029.D
Sampled:	06/19/13 12:50	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:49
Solids:	85.68	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch:	3F28005	Sequence:	AA24761	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	2	<2.3	UD	1.3	2.3	4.0
58-89-9	gamma-BHC	2	<2.3	UD	1.2	2.3	4.0
319-85-7	beta-BHC	2	<2.3	UD	2.3	2.3	4.0
319-86-8	delta-BHC	2	<2.3	UD	1.2	2.3	4.0
76-44-8	Heptachlor	2	<2.3	UD	1.4	2.3	4.0
309-00-2	Aldrin	2	<2.3	UD	1.1	2.3	4.0
1024-57-3	Heptachlor epoxide	2	<2.3	UD	1.1	2.3	4.0
5566-34-7	Chlordane-gamma	2	<2.3	UD	1.1	2.3	4.0
5103-71-9	Chlordane-alpha	2	<2.3	UD	1.1	2.3	4.0
72-55-9	4,4'-DDE	2	<2.3	UD	1.2	2.3	4.0
959-98-8	Endosulfan I	2	<2.3	UD	0.91	2.3	4.0
60-57-1	Dieldrin	2	<2.3	UD	1.1	2.3	4.0
72-20-8	Endrin	2	<2.3	UD	1.7	2.3	4.0
72-54-8	4,4'-DDD	2	<2.3	UD	1.1	2.3	4.0
33213-65-9	Endosulfan II	2	<2.3	UD	1.1	2.3	4.0
50-29-3	4,4'-DDT	2	<2.3	UD	1.5	2.3	4.0
7421-93-4	Endrin aldehyde	2	<2.3	UD	1.9	2.3	4.0
72-43-5	Methoxychlor	2	<2.3	UD	2.0	2.3	4.0
1031-07-8	Endosulfan sulfate	2	<2.3	UD	1.1	2.3	4.0
53494-70-5	Endrin ketone	2	<2.3	UD	1.1	2.3	4.0
8001-35-2	Toxaphene	2	<47	UD	23	47	77

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	38.6	28	72	70 - 125	
2,4,5,6-TCMX [2C]	38.6	31	80	70 - 125	
Decachlorobiphenyl	38.6	26	66	55 - 130	
Decachlorobiphenyl [2C]	38.6	27	71	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	539700000	5.271	3.764E+08	5.31	
DBC [2C]	281600000	5.168	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	2FU046.D
Sampled:	06/19/13 13:00	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:20
Solids:	79.34	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.71	1.3	2.1
58-89-9	gamma-BHC	1	<1.3	U	0.63	1.3	2.1
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.1
319-86-8	delta-BHC	1	<1.3	U	0.63	1.3	2.1
76-44-8	Heptachlor	1	<1.3	U	0.78	1.3	2.1
309-00-2	Aldrin	1	<1.3	U	0.62	1.3	2.1
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.60	1.3	2.1
5566-34-7	Chlordane-gamma	1	<1.3	U	0.57	1.3	2.1
5103-71-9	Chlordane-alpha	1	<1.3	U	0.57	1.3	2.1
72-55-9	4,4'-DDE	1	<1.3	U	0.66	1.3	2.1
959-98-8	Endosulfan I	1	<1.3	U	0.49	1.3	2.1
60-57-1	Dieldrin	1	<1.3	U	0.57	1.3	2.1
72-20-8	Endrin	1	<1.3	U	0.93	1.3	2.1
72-54-8	4,4'-DDD	1	<1.3	U	0.60	1.3	2.1
33213-65-9	Endosulfan II	1	<1.3	U	0.60	1.3	2.1
50-29-3	4,4'-DDT	1	<1.3	U	0.83	1.3	2.1
7421-93-4	Endrin aldehyde	1	<1.3	U	1.0	1.3	2.1
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.1
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.62	1.3	2.1
53494-70-5	Endrin ketone	1	<1.3	U	0.57	1.3	2.1
8001-35-2	Toxaphene	1	<25	U	13	25	42

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.5	19	45	70 - 125	*
2,4,5,6-TCMX [2C]	41.5	19	46	70 - 125	*
Decachlorobiphenyl	41.5	22	53	55 - 130	*
Decachlorobiphenyl [2C]	41.5	18	42	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	557200000	5.29	3.764E+08	5.31	
DBC [2C]	319600000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15RE1	File ID:	2FX030.D
Sampled:	06/19/13 13:00	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:01
Solids:	79.34	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.71	1.3	2.1
58-89-9	gamma-BHC	1	<1.3	U	0.63	1.3	2.1
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.1
319-86-8	delta-BHC	1	<1.3	U	0.63	1.3	2.1
76-44-8	Heptachlor	1	<1.3	U	0.78	1.3	2.1
309-00-2	Aldrin	1	<1.3	U	0.62	1.3	2.1
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.60	1.3	2.1
5566-34-7	Chlordane-gamma	1	<1.3	U	0.57	1.3	2.1
5103-71-9	Chlordane-alpha	1	<1.3	U	0.57	1.3	2.1
72-55-9	4,4'-DDE	1	<1.3	U	0.66	1.3	2.1
959-98-8	Endosulfan I	1	<1.3	U	0.49	1.3	2.1
60-57-1	Dieldrin	1	<1.3	U	0.57	1.3	2.1
72-20-8	Endrin	1	<1.3	U	0.93	1.3	2.1
72-54-8	4,4'-DDD	1	<1.3	U	0.60	1.3	2.1
33213-65-9	Endosulfan II	1	<1.3	U	0.60	1.3	2.1
50-29-3	4,4'-DDT	1	<1.3	U	0.83	1.3	2.1
7421-93-4	Endrin aldehyde	1	<1.3	U	1.0	1.3	2.1
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.1
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.62	1.3	2.1
53494-70-5	Endrin ketone	1	<1.3	U	0.57	1.3	2.1
8001-35-2	Toxaphene	1	<25	U	13	25	42

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	42.0	27	64	70 - 125	*
2,4,5,6-TCMX [2C]	42.0	27	64	70 - 125	*
Decachlorobiphenyl	42.0	26	61	55 - 130	
Decachlorobiphenyl [2C]	42.0	24	58	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	518600000	5.271	3.764E+08	5.31	
DBC [2C]	299600000	5.168	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	2FU047.D
Sampled:	06/19/13 13:30	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:32
Solids:	75.47	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch:	3F24028	Sequence:	AA24704	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	2	<2.6	UD	1.5	2.6	4.5
58-89-9	gamma-BHC	2	<2.6	UD	1.3	2.6	4.5
319-85-7	beta-BHC	2	<2.6	UD	2.6	2.6	4.5
319-86-8	delta-BHC	2	<2.6	UD	1.3	2.6	4.5
76-44-8	Heptachlor	2	<2.6	UD	1.6	2.6	4.5
309-00-2	Aldrin	2	<2.6	UD	1.3	2.6	4.5
1024-57-3	Heptachlor epoxide	2	<2.6	UD	1.3	2.6	4.5
5566-34-7	Chlordane-gamma	2	<2.6	UD	1.2	2.6	4.5
5103-71-9	Chlordane-alpha	2	<2.6	UD	1.2	2.6	4.5
72-55-9	4,4'-DDE	2	<2.6	UD	1.4	2.6	4.5
959-98-8	Endosulfan I	2	<2.6	UD	1.0	2.6	4.5
60-57-1	Dieldrin	2	<2.6	UD	1.2	2.6	4.5
72-20-8	Endrin	2	<2.6	UD	2.0	2.6	4.5
72-54-8	4,4'-DDD	2	<2.6	UD	1.3	2.6	4.5
33213-65-9	Endosulfan II	2	<2.6	UD	1.3	2.6	4.5
50-29-3	4,4'-DDT	2	<2.6	UD	1.7	2.6	4.5
7421-93-4	Endrin aldehyde	2	<2.6	UD	2.2	2.6	4.5
72-43-5	Methoxychlor	2	<2.6	UD	2.3	2.6	4.5
1031-07-8	Endosulfan sulfate	2	<2.6	UD	1.3	2.6	4.5
53494-70-5	Endrin ketone	2	<2.6	UD	1.2	2.6	4.5
8001-35-2	Toxaphene	2	<53	UD	26	53	87

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	43.9	15	34	70 - 125	*
2,4,5,6-TCMX [2C]	43.9	17	38	70 - 125	*
Decachlorobiphenyl	43.9	13	31	55 - 130	*
Decachlorobiphenyl [2C]	43.9	15	33	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	544800000	5.29	3.764E+08	5.31	
DBC [2C]	305800000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17RE1	File ID:	2FX031.D
Sampled:	06/19/13 13:30	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:13
Solids:	75.47	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	2	<2.6	UD	1.5	2.6	4.5
58-89-9	gamma-BHC	2	<2.6	UD	1.3	2.6	4.5
319-85-7	beta-BHC	2	<2.6	UD	2.6	2.6	4.5
319-86-8	delta-BHC	2	<2.6	UD	1.3	2.6	4.5
76-44-8	Heptachlor	2	<2.6	UD	1.6	2.6	4.5
309-00-2	Aldrin	2	<2.6	UD	1.3	2.6	4.5
1024-57-3	Heptachlor epoxide	2	<2.6	UD	1.3	2.6	4.5
5566-34-7	Chlordane-gamma	2	<2.6	UD	1.2	2.6	4.5
5103-71-9	Chlordane-alpha	2	<2.6	UD	1.2	2.6	4.5
72-55-9	4,4'-DDE	2	<2.6	UD	1.4	2.6	4.5
959-98-8	Endosulfan I	2	<2.6	UD	1.0	2.6	4.5
60-57-1	Dieldrin	2	<2.6	UD	1.2	2.6	4.5
72-20-8	Endrin	2	<2.6	UD	2.0	2.6	4.5
72-54-8	4,4'-DDD	2	<2.6	UD	1.3	2.6	4.5
33213-65-9	Endosulfan II	2	<2.6	UD	1.3	2.6	4.5
50-29-3	4,4'-DDT	2	<2.6	UD	1.7	2.6	4.5
7421-93-4	Endrin aldehyde	2	<2.6	UD	2.2	2.6	4.5
72-43-5	Methoxychlor	2	<2.6	UD	2.3	2.6	4.5
1031-07-8	Endosulfan sulfate	2	<2.6	UD	1.3	2.6	4.5
53494-70-5	Endrin ketone	2	<2.6	UD	1.2	2.6	4.5
8001-35-2	Toxaphene	2	<53	UD	26	53	87

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	44.2	28	63	70 - 125	*
2,4,5,6-TCMX [2C]	44.2	32	72	70 - 125	
Decachlorobiphenyl	44.2	24	55	55 - 130	
Decachlorobiphenyl [2C]	44.2	29	66	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	599600000	5.272	3.764E+08	5.31	
DBC [2C]	313300000	5.17	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	2FU048.D
Sampled:	06/19/13 13:40	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:45
Solids:	75.96	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.74	1.3	2.2
58-89-9	gamma-BHC	1	<1.3	U	0.66	1.3	2.2
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.2
319-86-8	delta-BHC	1	<1.3	U	0.66	1.3	2.2
76-44-8	Heptachlor	1	<1.3	U	0.82	1.3	2.2
309-00-2	Aldrin	1	<1.3	U	0.65	1.3	2.2
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.63	1.3	2.2
5566-34-7	Chlordane-gamma	1	<1.3	U	0.59	1.3	2.2
5103-71-9	Chlordane-alpha	1	<1.3	U	0.59	1.3	2.2
72-55-9	4,4'-DDE	1	<1.3	U	0.68	1.3	2.2
959-98-8	Endosulfan I	1	<1.3	U	0.51	1.3	2.2
60-57-1	Dieldrin	1	<1.3	U	0.59	1.3	2.2
72-20-8	Endrin	1	<1.3	U	0.97	1.3	2.2
72-54-8	4,4'-DDD	1	<1.3	U	0.63	1.3	2.2
33213-65-9	Endosulfan II	1	<1.3	U	0.63	1.3	2.2
50-29-3	4,4'-DDT	1	<1.3	U	0.87	1.3	2.2
7421-93-4	Endrin aldehyde	1	<1.3	U	1.1	1.3	2.2
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.2
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.65	1.3	2.2
53494-70-5	Endrin ketone	1	<1.3	U	0.59	1.3	2.2
8001-35-2	Toxaphene	1	<26	U	13	26	43

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	43.6	11	26	70 - 125	*
2,4,5,6-TCMX [2C]	43.6	11	25	70 - 125	*
Decachlorobiphenyl	43.6	18	42	55 - 130	*
Decachlorobiphenyl [2C]	43.6	17	39	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	591100000	5.29	3.764E+08	5.31	
DBC [2C]	347900000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18RE1	File ID:	2FX032.D
Sampled:	06/19/13 13:40	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:25
Solids:	75.96	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.74	1.3	2.2
58-89-9	gamma-BHC	1	<1.3	U	0.66	1.3	2.2
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.2
319-86-8	delta-BHC	1	<1.3	U	0.66	1.3	2.2
76-44-8	Heptachlor	1	<1.3	U	0.82	1.3	2.2
309-00-2	Aldrin	1	<1.3	U	0.65	1.3	2.2
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.63	1.3	2.2
5566-34-7	Chlordane-gamma	1	<1.3	U	0.59	1.3	2.2
5103-71-9	Chlordane-alpha	1	<1.3	U	0.59	1.3	2.2
72-55-9	4,4'-DDE	1	<1.3	U	0.68	1.3	2.2
959-98-8	Endosulfan I	1	<1.3	U	0.51	1.3	2.2
60-57-1	Dieldrin	1	<1.3	U	0.59	1.3	2.2
72-20-8	Endrin	1	<1.3	U	0.97	1.3	2.2
72-54-8	4,4'-DDD	1	<1.3	U	0.63	1.3	2.2
33213-65-9	Endosulfan II	1	<1.3	U	0.63	1.3	2.2
50-29-3	4,4'-DDT	1	<1.3	U	0.87	1.3	2.2
7421-93-4	Endrin aldehyde	1	<1.3	U	1.1	1.3	2.2
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.2
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.65	1.3	2.2
53494-70-5	Endrin ketone	1	<1.3	U	0.59	1.3	2.2
8001-35-2	Toxaphene	1	<26	U	13	26	43

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	43.3	17	40	70 - 125	*
2,4,5,6-TCMX [2C]	43.3	17	39	70 - 125	*
Decachlorobiphenyl	43.3	31	73	55 - 130	
Decachlorobiphenyl [2C]	43.3	30	70	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	539800000	5.273	3.764E+08	5.31	
DBC [2C]	320500000	5.171	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	2FU049.D
Sampled:	06/19/13 14:00	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:57
Solids:	76.63	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL

Batch:	3F24028	Sequence:	AA24704	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.73	1.3	2.2
58-89-9	gamma-BHC	1	<1.3	U	0.65	1.3	2.2
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.2
319-86-8	delta-BHC	1	<1.3	U	0.65	1.3	2.2
76-44-8	Heptachlor	1	<1.3	U	0.81	1.3	2.2
309-00-2	Aldrin	1	<1.3	U	0.64	1.3	2.2
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.63	1.3	2.2
5566-34-7	Chlordane-gamma	1	<1.3	U	0.59	1.3	2.2
5103-71-9	Chlordane-alpha	1	<1.3	U	0.59	1.3	2.2
72-55-9	4,4'-DDE	1	<1.3	U	0.68	1.3	2.2
959-98-8	Endosulfan I	1	<1.3	U	0.51	1.3	2.2
60-57-1	Dieldrin	1	<1.3	U	0.59	1.3	2.2
72-20-8	Endrin	1	<1.3	U	0.97	1.3	2.2
72-54-8	4,4'-DDD	1	<1.3	U	0.63	1.3	2.2
33213-65-9	Endosulfan II	1	<1.3	U	0.63	1.3	2.2
50-29-3	4,4'-DDT	1	<1.3	U	0.86	1.3	2.2
7421-93-4	Endrin aldehyde	1	<1.3	U	1.1	1.3	2.2
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.2
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.64	1.3	2.2
53494-70-5	Endrin ketone	1	<1.3	U	0.59	1.3	2.2
8001-35-2	Toxaphene	1	<26	U	13	26	43

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	42.8	15	34	70 - 125	*
2,4,5,6-TCMX [2C]	42.8	15	34	70 - 125	*
Decachlorobiphenyl	42.8	18	42	55 - 130	*
Decachlorobiphenyl [2C]	42.8	18	42	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	567600000	5.29	3.764E+08	5.31	
DBC [2C]	327800000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-19RE1	File ID:	2FX033.D
Sampled:	06/19/13 14:00	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:37
Solids:	76.63	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch:	3F28005	Sequence:	AA24761	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.3	U	0.73	1.3	2.2
58-89-9	gamma-BHC	1	<1.3	U	0.65	1.3	2.2
319-85-7	beta-BHC	1	<1.3	U	1.3	1.3	2.2
319-86-8	delta-BHC	1	<1.3	U	0.65	1.3	2.2
76-44-8	Heptachlor	1	<1.3	U	0.81	1.3	2.2
309-00-2	Aldrin	1	<1.3	U	0.64	1.3	2.2
1024-57-3	Heptachlor epoxide	1	<1.3	U	0.63	1.3	2.2
5566-34-7	Chlordane-gamma	1	<1.3	U	0.59	1.3	2.2
5103-71-9	Chlordane-alpha	1	<1.3	U	0.59	1.3	2.2
72-55-9	4,4'-DDE	1	<1.3	U	0.68	1.3	2.2
959-98-8	Endosulfan I	1	<1.3	U	0.51	1.3	2.2
60-57-1	Dieldrin	1	<1.3	U	0.59	1.3	2.2
72-20-8	Endrin	1	<1.3	U	0.97	1.3	2.2
72-54-8	4,4'-DDD	1	<1.3	U	0.63	1.3	2.2
33213-65-9	Endosulfan II	1	<1.3	U	0.63	1.3	2.2
50-29-3	4,4'-DDT	1	<1.3	U	0.86	1.3	2.2
7421-93-4	Endrin aldehyde	1	<1.3	U	1.1	1.3	2.2
72-43-5	Methoxychlor	1	<1.3	U	1.1	1.3	2.2
1031-07-8	Endosulfan sulfate	1	<1.3	U	0.64	1.3	2.2
53494-70-5	Endrin ketone	1	<1.3	U	0.59	1.3	2.2
8001-35-2	Toxaphene	1	<26	U	13	26	43

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	43.4	29	67	70 - 125	*
2,4,5,6-TCMX [2C]	43.4	27	63	70 - 125	*
Decachlorobiphenyl	43.4	29	66	55 - 130	
Decachlorobiphenyl [2C]	43.4	28	64	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	543900000	5.275	3.764E+08	5.31	
DBC [2C]	331000000	5.172	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	2FU050.D
Sampled:	06/19/13 14:10	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 20:09
Solids:	80.94	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.69	1.2	2.1
58-89-9	gamma-BHC	1	<1.2	U	0.62	1.2	2.1
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.1
319-86-8	delta-BHC	1	<1.2	U	0.62	1.2	2.1
76-44-8	Heptachlor	1	<1.2	U	0.77	1.2	2.1
309-00-2	Aldrin	1	<1.2	U	0.61	1.2	2.1
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.59	1.2	2.1
5566-34-7	Chlordane-gamma	1	<1.2	U	0.56	1.2	2.1
5103-71-9	Chlordane-alpha	1	<1.2	U	0.56	1.2	2.1
72-55-9	4,4'-DDE	1	<1.2	U	0.64	1.2	2.1
959-98-8	Endosulfan I	1	<1.2	U	0.48	1.2	2.1
60-57-1	Dieldrin	1	<1.2	U	0.56	1.2	2.1
72-20-8	Endrin	1	<1.2	U	0.91	1.2	2.1
72-54-8	4,4'-DDD	1	<1.2	U	0.59	1.2	2.1
33213-65-9	Endosulfan II	1	<1.2	U	0.59	1.2	2.1
50-29-3	4,4'-DDT	1	<1.2	U	0.82	1.2	2.1
7421-93-4	Endrin aldehyde	1	<1.2	U	1.0	1.2	2.1
72-43-5	Methoxychlor	1	<1.2	U	1.1	1.2	2.1
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.61	1.2	2.1
53494-70-5	Endrin ketone	1	<1.2	U	0.56	1.2	2.1
8001-35-2	Toxaphene	1	<25	U	12	25	41

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.0	15	36	70 - 125	*
2,4,5,6-TCMX [2C]	41.0	14	35	70 - 125	*
Decachlorobiphenyl	41.0	17	40	55 - 130	*
Decachlorobiphenyl [2C]	41.0	17	40	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	555400000	5.29	3.764E+08	5.31	
DBC [2C]	321200000	5.186	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20RE1	File ID:	2FX034.D
Sampled:	06/19/13 14:10	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:49
Solids:	80.94	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.69	1.2	2.1
58-89-9	gamma-BHC	1	<1.2	U	0.62	1.2	2.1
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.1
319-86-8	delta-BHC	1	<1.2	U	0.62	1.2	2.1
76-44-8	Heptachlor	1	<1.2	U	0.77	1.2	2.1
309-00-2	Aldrin	1	<1.2	U	0.61	1.2	2.1
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.59	1.2	2.1
5566-34-7	Chlordane-gamma	1	<1.2	U	0.56	1.2	2.1
5103-71-9	Chlordane-alpha	1	<1.2	U	0.56	1.2	2.1
72-55-9	4,4'-DDE	1	<1.2	U	0.64	1.2	2.1
959-98-8	Endosulfan I	1	<1.2	U	0.48	1.2	2.1
60-57-1	Dieldrin	1	<1.2	U	0.56	1.2	2.1
72-20-8	Endrin	1	<1.2	U	0.91	1.2	2.1
72-54-8	4,4'-DDD	1	<1.2	U	0.59	1.2	2.1
33213-65-9	Endosulfan II	1	<1.2	U	0.59	1.2	2.1
50-29-3	4,4'-DDT	1	<1.2	U	0.82	1.2	2.1
7421-93-4	Endrin aldehyde	1	<1.2	U	1.0	1.2	2.1
72-43-5	Methoxychlor	1	<1.2	U	1.1	1.2	2.1
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.61	1.2	2.1
53494-70-5	Endrin ketone	1	<1.2	U	0.56	1.2	2.1
8001-35-2	Toxaphene	1	<25	U	12	25	41

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.2	31	75	70 - 125	
2,4,5,6-TCMX [2C]	41.2	32	78	70 - 125	
Decachlorobiphenyl	41.2	29	71	55 - 130	
Decachlorobiphenyl [2C]	41.2	29	71	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	533100000	5.276	3.764E+08	5.31	
DBC [2C]	294000000	5.172	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	2FU051.D
Sampled:	06/19/13 14:15	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 20:21
Solids:	86.11	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F24028 Sequence: AA24704 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.65	1.2	2.0
58-89-9	gamma-BHC	1	<1.2	U	0.58	1.2	2.0
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.0
319-86-8	delta-BHC	1	<1.2	U	0.58	1.2	2.0
76-44-8	Heptachlor	1	<1.2	U	0.72	1.2	2.0
309-00-2	Aldrin	1	<1.2	U	0.57	1.2	2.0
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.56	1.2	2.0
5566-34-7	Chlordane-gamma	1	<1.2	U	0.52	1.2	2.0
5103-71-9	Chlordane-alpha	1	<1.2	U	0.52	1.2	2.0
72-55-9	4,4'-DDE	1	<1.2	U	0.60	1.2	2.0
959-98-8	Endosulfan I	1	<1.2	U	0.45	1.2	2.0
60-57-1	Dieldrin	1	<1.2	U	0.52	1.2	2.0
72-20-8	Endrin	1	<1.2	U	0.86	1.2	2.0
72-54-8	4,4'-DDD	1	<1.2	U	0.56	1.2	2.0
33213-65-9	Endosulfan II	1	<1.2	U	0.56	1.2	2.0
50-29-3	4,4'-DDT	1	<1.2	U	0.77	1.2	2.0
7421-93-4	Endrin aldehyde	1	<1.2	U	0.96	1.2	2.0
72-43-5	Methoxychlor	1	<1.2	U	1.0	1.2	2.0
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.57	1.2	2.0
53494-70-5	Endrin ketone	1	<1.2	U	0.52	1.2	2.0
8001-35-2	Toxaphene	1	<23	U	12	23	38

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	38.6	17	44	70 - 125	*
2,4,5,6-TCMX [2C]	38.6	17	44	70 - 125	*
Decachlorobiphenyl	38.6	12	32	55 - 130	*
Decachlorobiphenyl [2C]	38.6	16	42	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	573500000	5.29	3.764E+08	5.31	
DBC [2C]	332400000	5.185	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21RE1	File ID:	2FX035.D
Sampled:	06/19/13 14:15	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 15:01
Solids:	86.11	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.2	U	0.65	1.2	2.0
58-89-9	gamma-BHC	1	<1.2	U	0.58	1.2	2.0
319-85-7	beta-BHC	1	<1.2	U	1.2	1.2	2.0
319-86-8	delta-BHC	1	<1.2	U	0.58	1.2	2.0
76-44-8	Heptachlor	1	<1.2	U	0.72	1.2	2.0
309-00-2	Aldrin	1	<1.2	U	0.57	1.2	2.0
1024-57-3	Heptachlor epoxide	1	<1.2	U	0.56	1.2	2.0
5566-34-7	Chlordane-gamma	1	<1.2	U	0.52	1.2	2.0
5103-71-9	Chlordane-alpha	1	<1.2	U	0.52	1.2	2.0
72-55-9	4,4'-DDE	1	<1.2	U	0.60	1.2	2.0
959-98-8	Endosulfan I	1	<1.2	U	0.45	1.2	2.0
60-57-1	Dieldrin	1	<1.2	U	0.52	1.2	2.0
72-20-8	Endrin	1	<1.2	U	0.86	1.2	2.0
72-54-8	4,4'-DDD	1	<1.2	U	0.56	1.2	2.0
33213-65-9	Endosulfan II	1	<1.2	U	0.56	1.2	2.0
50-29-3	4,4'-DDT	1	<1.2	U	0.77	1.2	2.0
7421-93-4	Endrin aldehyde	1	<1.2	U	0.96	1.2	2.0
72-43-5	Methoxychlor	1	<1.2	U	1.0	1.2	2.0
1031-07-8	Endosulfan sulfate	1	<1.2	U	0.57	1.2	2.0
53494-70-5	Endrin ketone	1	<1.2	U	0.52	1.2	2.0
8001-35-2	Toxaphene	1	<23	U	12	23	38

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	38.7	32	83	70 - 125	
2,4,5,6-TCMX [2C]	38.7	31	80	70 - 125	
Decachlorobiphenyl	38.7	23	59	55 - 130	
Decachlorobiphenyl [2C]	38.7	27	71	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	532800000	5.277	3.764E+08	5.31	
DBC [2C]	317200000	5.174	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2FU052.D
Sampled:	06/19/13 14:30	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 20:33
Solids:	72.13	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch:	3F24028	Sequence:	AA24704	Calibration:	1304047	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.4	U	0.78	1.4	2.4
58-89-9	gamma-BHC	1	<1.4	U	0.69	1.4	2.4
319-85-7	beta-BHC	1	<1.4	U	1.4	1.4	2.4
319-86-8	delta-BHC [2C]	1	1.0	JPQ	0.69	1.4	2.4
76-44-8	Heptachlor	1	<1.4	U	0.86	1.4	2.4
309-00-2	Aldrin	1	<1.4	U	0.68	1.4	2.4
1024-57-3	Heptachlor epoxide	1	<1.4	U	0.67	1.4	2.4
5566-34-7	Chlordane-gamma	1	<1.4	U	0.62	1.4	2.4
5103-71-9	Chlordane-alpha	1	<1.4	U	0.62	1.4	2.4
72-55-9	4,4'-DDE	1	<1.4	U	0.72	1.4	2.4
959-98-8	Endosulfan I	1	<1.4	U	0.54	1.4	2.4
60-57-1	Dieldrin	1	<1.4	U	0.62	1.4	2.4
72-20-8	Endrin	1	<1.4	U	1.0	1.4	2.4
72-54-8	4,4'-DDD	1	<1.4	U	0.67	1.4	2.4
33213-65-9	Endosulfan II	1	<1.4	U	0.67	1.4	2.4
50-29-3	4,4'-DDT	1	<1.4	U	0.91	1.4	2.4
7421-93-4	Endrin aldehyde	1	<1.4	U	1.2	1.4	2.4
72-43-5	Methoxychlor	1	<1.4	U	1.2	1.4	2.4
1031-07-8	Endosulfan sulfate	1	<1.4	U	0.68	1.4	2.4
53494-70-5	Endrin ketone	1	<1.4	U	0.62	1.4	2.4
8001-35-2	Toxaphene	1	<28	U	14	28	46

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	45.9	10	22	70 - 125	*
2,4,5,6-TCMX [2C]	45.9	10	23	70 - 125	*
Decachlorobiphenyl	45.9	14	31	55 - 130	*
Decachlorobiphenyl [2C]	45.9	15	32	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	580000000	5.289	3.764E+08	5.31	
DBC [2C]	323500000	5.185	2.1E+08	5.22	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22RE1	File ID:	2FX036.D
Sampled:	06/19/13 14:30	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 15:13
Solids:	72.13	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL

Batch: 3F28005 Sequence: AA24761 Calibration: 1304047 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
319-84-6	alpha-BHC	1	<1.4	U	0.78	1.4	2.4
58-89-9	gamma-BHC	1	<1.4	U	0.69	1.4	2.4
319-85-7	beta-BHC	1	<1.4	U	1.4	1.4	2.4
319-86-8	delta-BHC	1	<1.4	U	0.69	1.4	2.4
76-44-8	Heptachlor	1	<1.4	U	0.86	1.4	2.4
309-00-2	Aldrin	1	<1.4	U	0.68	1.4	2.4
1024-57-3	Heptachlor epoxide	1	<1.4	U	0.67	1.4	2.4
5566-34-7	Chlordane-gamma	1	<1.4	U	0.62	1.4	2.4
5103-71-9	Chlordane-alpha	1	<1.4	U	0.62	1.4	2.4
72-55-9	4,4'-DDE	1	<1.4	U	0.72	1.4	2.4
959-98-8	Endosulfan I	1	<1.4	U	0.54	1.4	2.4
60-57-1	Dieldrin	1	<1.4	U	0.62	1.4	2.4
72-20-8	Endrin	1	<1.4	U	1.0	1.4	2.4
72-54-8	4,4'-DDD	1	<1.4	U	0.67	1.4	2.4
33213-65-9	Endosulfan II	1	<1.4	U	0.67	1.4	2.4
50-29-3	4,4'-DDT	1	<1.4	U	0.91	1.4	2.4
7421-93-4	Endrin aldehyde	1	<1.4	U	1.2	1.4	2.4
72-43-5	Methoxychlor	1	<1.4	U	1.2	1.4	2.4
1031-07-8	Endosulfan sulfate	1	<1.4	U	0.68	1.4	2.4
53494-70-5	Endrin ketone	1	<1.4	U	0.62	1.4	2.4
8001-35-2	Toxaphene	1	<28	U	14	28	46

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	45.8	24	52	70 - 125	*
2,4,5,6-TCMX [2C]	45.8	31	67	70 - 125	*
Decachlorobiphenyl	45.8	23	49	55 - 130	*
Decachlorobiphenyl [2C]	45.8	36	79	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	628700000	5.277	3.764E+08	5.31	
DBC [2C]	261400000	5.175	2.1E+08	5.22	

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 17:56	2.00	40.00	
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/28/13 01:30	9.00	14.00	06/29/13 13:00	1.00	40.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 18:08	2.00	40.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/28/13 01:30	9.00	14.00	06/29/13 13:12	1.00	40.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 18:20	2.00	40.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/28/13 01:30	9.00	14.00	06/29/13 13:24	1.00	40.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 18:32	2.00	40.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/28/13 01:30	9.00	14.00	06/29/13 13:36	1.00	40.00	
TR-2ND-SB06D-0.5-01-0613	06/19/13 11:25	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 18:44	2.00	40.00	
TR-2ND-SB06D-05-07-0613	06/19/13 11:35	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 18:56	2.00	40.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 19:08	2.00	40.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/28/13 01:30	9.00	14.00	06/29/13 13:49	1.00	40.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 19:20	2.00	40.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/28/13 01:30	9.00	14.00	06/29/13 14:01	1.00	40.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 19:32	2.00	40.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/28/13 01:30	9.00	14.00	06/29/13 14:13	1.00	40.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 19:45	2.00	40.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/28/13 01:30	8.00	14.00	06/29/13 14:25	1.00	40.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 19:57	2.00	40.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/28/13 01:30	8.00	14.00	06/29/13 14:37	1.00	40.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 20:09	2.00	40.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/28/13 01:30	8.00	14.00	06/29/13 14:49	1.00	40.00	
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 20:21	2.00	40.00	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/28/13 01:30	8.00	14.00	06/29/13 15:01	1.00	40.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/24/13 13:45	5.00	14.00	06/26/13 20:33	2.00	40.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/28/13 01:30	8.00	14.00	06/29/13 15:13	1.00	40.00	

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F24028 Batch Matrix: Soil

Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F24028-BLK1	2FU009.D	06/24/13 13:45	
LCS	3F24028-BS1	2FU010.D	06/24/13 13:45	
LCS Dup	3F24028-BSD1	2FU011.D	06/24/13 13:45	
TR-2ND-SB07-0.5-01-0613	A303499-06	2FU039.D	06/24/13 13:45	
TR-2ND-SB07-04-06-0613	A303499-07	2FU040.D	06/24/13 13:45	
TR-2ND-SB06-0.5-01-0613	A303499-09	2FU041.D	06/24/13 13:45	
TR-2ND-SB06-05-07-0613	A303499-10	2FU042.D	06/24/13 13:45	
TR-2ND-SB06D-0.5-01-0613	A303499-11	2FU043.D	06/24/13 13:45	
TR-2ND-SB06D-05-07-0613	A303499-12	2FU044.D	06/24/13 13:45	
TR-2ND-SB04-0.5-01-0613	A303499-14	2FU045.D	06/24/13 13:45	
TR-2ND-SB04-04-06-0613	A303499-15	2FU046.D	06/24/13 13:45	
TR-2ND-SB05-0.5-01-0613	A303499-17	2FU047.D	06/24/13 13:45	
TR-2ND-SB05-03-05-0613	A303499-18	2FU048.D	06/24/13 13:45	
TR-2ND-SB03-0.5-01-0613	A303499-19	2FU049.D	06/24/13 13:45	
TR-2ND-SB03-04-06-0613	A303499-20	2FU050.D	06/24/13 13:45	
TR-2ND-SB02-0.5-1-0613	A303499-21	2FU051.D	06/24/13 13:45	
TR-2ND-SB02-06-08-0613	A303499-22	2FU052.D	06/24/13 13:45	

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F28005 Batch Matrix: Soil

Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F28005-BLK1	2FX009.D	06/28/13 01:30	
LCS	3F28005-BS1	2FX010.D	06/28/13 01:30	
LCS Dup	3F28005-BSD1	2FX011.D	06/28/13 01:30	
TR-2ND-SB07-0.5-01-0613	A303499-06RE1	2FX025.D	06/28/13 01:30	
TR-2ND-SB07-04-06-0613	A303499-07RE1	2FX026.D	06/28/13 01:30	
TR-2ND-SB06-0.5-01-0613	A303499-09RE1	2FX027.D	06/28/13 01:30	
TR-2ND-SB06-05-07-0613	A303499-10RE1	2FX028.D	06/28/13 01:30	
TR-2ND-SB04-0.5-01-0613	A303499-14RE1	2FX029.D	06/28/13 01:30	
TR-2ND-SB04-04-06-0613	A303499-15RE1	2FX030.D	06/28/13 01:30	
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	2FX031.D	06/28/13 01:30	
TR-2ND-SB05-03-05-0613	A303499-18RE1	2FX032.D	06/28/13 01:30	
TR-2ND-SB03-0.5-01-0613	A303499-19RE1	2FX033.D	06/28/13 01:30	
TR-2ND-SB03-04-06-0613	A303499-20RE1	2FX034.D	06/28/13 01:30	
TR-2ND-SB02-0.5-1-0613	A303499-21RE1	2FX035.D	06/28/13 01:30	
TR-2ND-SB02-06-08-0613	A303499-22RE1	2FX036.D	06/28/13 01:30	

METHOD BLANK DATA SHEET
EPA 8081B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F24028-BLK1	File ID:	2FU009.D
Prepared:	06/24/13 13:45	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL
Analyzed:	06/26/13 11:54	Instrument:	OSVGCECD2		
Batch:	3F24028	Sequence:	AA24704	Calibration:	1304047

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
319-84-6	alpha-BHC	<1.0	U
58-89-9	gamma-BHC	<1.0	U
319-85-7	beta-BHC	<1.0	U
319-86-8	delta-BHC	<1.0	U
76-44-8	Heptachlor	<1.0	U
309-00-2	Aldrin	<1.0	U
1024-57-3	Heptachlor epoxide	<1.0	U
5566-34-7	Chlordane-gamma	<1.0	U
5103-71-9	Chlordane-alpha	<1.0	U
72-55-9	4,4'-DDE	<1.0	U
959-98-8	Endosulfan I	<1.0	U
60-57-1	Dieldrin	<1.0	U
72-20-8	Endrin	<1.0	U
72-54-8	4,4'-DDD	<1.0	U
33213-65-9	Endosulfan II	<1.0	U
50-29-3	4,4'-DDT	<1.0	U
7421-93-4	Endrin aldehyde	<1.0	U
72-43-5	Methoxychlor	<1.0	U
1031-07-8	Endosulfan sulfate	<1.0	U
53494-70-5	Endrin ketone	<1.0	U
8001-35-2	Toxaphene	<20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	33.3	45	134	70 - 125	*
2,4,5,6-TCMX [2C]	33.3	47	140	70 - 125	*
Decachlorobiphenyl	33.3	48	144	55 - 130	*
Decachlorobiphenyl [2C]	33.3	47	140	55 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	347800000	5.289	3.764E+08	5.31	
DBC [2C]	190500000	5.184	2.1E+08	5.22	

METHOD BLANK DATA SHEET
EPA 8081B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F28005-BLK1	File ID:	2FX009.D
Prepared:	06/28/13 01:30	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL
Analyzed:	06/29/13 09:47	Instrument:	OSVGCECD2		
Batch:	3F28005	Sequence:	AA24761	Calibration:	1304047

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
319-84-6	alpha-BHC	<1.0	U
58-89-9	gamma-BHC	<1.0	U
319-85-7	beta-BHC	<1.0	U
319-86-8	delta-BHC	<1.0	U
76-44-8	Heptachlor	<1.0	U
309-00-2	Aldrin	<1.0	U
1024-57-3	Heptachlor epoxide	<1.0	U
5566-34-7	Chlordane-gamma	<1.0	U
5103-71-9	Chlordane-alpha	<1.0	U
72-55-9	4,4'-DDE	<1.0	U
959-98-8	Endosulfan I	<1.0	U
60-57-1	Dieldrin	<1.0	U
72-20-8	Endrin	<1.0	U
72-54-8	4,4'-DDD	<1.0	U
33213-65-9	Endosulfan II	<1.0	U
50-29-3	4,4'-DDT	<1.0	U
7421-93-4	Endrin aldehyde	<1.0	U
72-43-5	Methoxychlor	<1.0	U
1031-07-8	Endosulfan sulfate	<1.0	U
53494-70-5	Endrin ketone	<1.0	U
8001-35-2	Toxaphene	<20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	33.3	41	123	70 - 125	
2,4,5,6-TCMX [2C]	33.3	42	127	70 - 125	*
Decachlorobiphenyl	33.3	43	130	55 - 130	
Decachlorobiphenyl [2C]	33.3	43	130	55 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
DBC	387400000	5.26	3.764E+08	5.31	
DBC [2C]	214500000	5.157	2.1E+08	5.22	

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F24028	Laboratory ID:	3F24028-BS1
Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	33.3	39	118	60 - 125
gamma-BHC	33.3	35	104	60 - 125
beta-BHC	33.3	34	101	60 - 125
delta-BHC	33.3	38	114	55 - 130
Heptachlor	33.3	31	92	50 - 140
Aldrin	33.3	39	117	45 - 140
Heptachlor epoxide	33.3	36	107	65 - 130
Chlordane-gamma	33.3	36	108	65 - 125
Chlordane-alpha	33.3	36	109	65 - 120
4,4'-DDE	33.3	38	115	70 - 125
Endosulfan I	33.3	36	109	15 - 135
Dieldrin	33.3	38	115	65 - 125
Endrin	33.3	35	105	60 - 135
4,4'-DDD	33.3	33	99	30 - 135
Endosulfan II	33.3	32	95	35 - 140
4,4'-DDT	33.3	29	86	45 - 140
Endrin aldehyde	33.3	31	94	35 - 145
Methoxychlor	33.3	27	81	55 - 145
Endosulfan sulfate	33.3	30	90	60 - 135
Endrin ketone	33.3	28	84	65 - 135

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	33.3	38	113	4	30	60 - 125
gamma-BHC	33.3	35	104	0	30	60 - 125
beta-BHC	33.3	33	100	1	30	60 - 125
delta-BHC	33.3	38	113	1	30	55 - 130
Heptachlor	33.3	30	89	3	30	50 - 140
Aldrin	33.3	35	106	9	30	45 - 140
Heptachlor epoxide	33.3	34	102	5	30	65 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F24028	Laboratory ID:	3F24028-BSD1
Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chlordane-gamma	33.3	36	107	1	30	65 - 125
Chlordane-alpha	33.3	35	106	3	30	65 - 120
4,4'-DDE	33.3	34	103	12	30	70 - 125
Endosulfan I	33.3	35	105	4	30	15 - 135
Dieldrin	33.3	37	111	4	30	65 - 125
Endrin	33.3	34	103	3	30	60 - 135
4,4'-DDD	33.3	33	98	1	30	30 - 135
Endosulfan II	33.3	32	96	0.5	30	35 - 140
4,4'-DDT	33.3	30	89	4	30	45 - 140
Endrin aldehyde	33.3	32	96	2	30	35 - 145
Methoxychlor	33.3	28	83	3	30	55 - 145
Endosulfan sulfate	33.3	30	89	0.4	30	60 - 135
Endrin ketone	33.3	27	81	3	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F28005	Laboratory ID:	3F28005-BS1
Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	33.3	39	118	60 - 125
gamma-BHC	33.3	34	101	60 - 125
beta-BHC	33.3	34	103	60 - 125
delta-BHC	33.3	39	118	55 - 130
Heptachlor	33.3	31	93	50 - 140
Aldrin	33.3	38	115	45 - 140
Heptachlor epoxide	33.3	33	100	65 - 130
Chlordane-gamma	33.3	36	107	65 - 125
Chlordane-alpha	33.3	35	105	65 - 120
4,4'-DDE	33.3	39	118	70 - 125
Endosulfan I	33.3	36	107	15 - 135
Dieldrin	33.3	39	116	65 - 125
Endrin	33.3	36	109	60 - 135
4,4'-DDD	33.3	34	101	30 - 135
Endosulfan II	33.3	32	97	35 - 140
4,4'-DDT	33.3	31	94	45 - 140
Endrin aldehyde	33.3	32	95	35 - 145
Methoxychlor	33.3	30	90	55 - 145
Endosulfan sulfate	33.3	29	88	60 - 135
Endrin ketone	33.3	28	83	65 - 135

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	33.3	37	112	5	30	60 - 125
gamma-BHC	33.3	34	101	0.1	30	60 - 125
beta-BHC	33.3	33	99	4	30	60 - 125
delta-BHC	33.3	37	112	5	30	55 - 130
Heptachlor	33.3	31	93	0.1	30	50 - 140
Aldrin	33.3	36	107	7	30	45 - 140
Heptachlor epoxide	33.3	32	96	5	30	65 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F28005	Laboratory ID:	3F28005-BSD1
Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chlordane-gamma	33.3	35	104	3	30	65 - 125
Chlordane-alpha	33.3	34	101	3	30	65 - 120
4,4'-DDE	33.3	36	107	10	30	70 - 125
Endosulfan I	33.3	34	103	4	30	15 - 135
Dieldrin	33.3	37	111	4	30	65 - 125
Endrin	33.3	35	105	4	30	60 - 135
4,4'-DDD	33.3	32	96	5	30	30 - 135
Endosulfan II	33.3	32	95	2	30	35 - 140
4,4'-DDT	33.3	32	95	2	30	45 - 140
Endrin aldehyde	33.3	31	93	3	30	35 - 145
Methoxychlor	33.3	30	89	0.2	30	55 - 145
Endosulfan sulfate	33.3	29	87	2	30	60 - 135
Endrin ketone	33.3	28	83	0.1	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

TR-2ND-SB07-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	2FU039.D
Sampled:	06/19/13 10:20	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 17:56
Solids:	84.46	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		17	16.2
2,4,5,6-TCMX	2	1.876	1.894667	0.0187		20	16.2
Decachlorobiphenyl	* 1	5.999	6.021	0.022		16	6.06
Decachlorobiphenyl	2	6.052	6.089167	0.0372		17	6.06
DBC	* 1	5.288	5.309333	0.0213		0.10	0
DBC	2	5.185	5.218833	0.0338		0.10	0

* Column used for quantitation

TR-2ND-SB07-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	2FU040.D
Sampled:	06/19/13 10:40	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:08
Solids:	80.68	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		21	4.65
2,4,5,6-TCMX	2	1.877	1.894667	0.0177		22	4.65
Decachlorobiphenyl	* 1	6	6.021	0.021		22	4.65
Decachlorobiphenyl	2	6.053	6.089167	0.0362		21	4.65
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB06-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	2FU041.D
Sampled:	06/19/13 11:20	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:20
Solids:	84.06	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		24	4.08
2,4,5,6-TCMX	2	1.876	1.894667	0.0187		25	4.08
Decachlorobiphenyl	* 1	5.998	6.021	0.023		20	0
Decachlorobiphenyl	2	6.052	6.089167	0.0372		20	0
DBC	* 1	5.289	5.309333	0.0203		0.10	0
DBC	2	5.184	5.218833	0.0348		0.10	0

* Column used for quantitation

TR-2ND-SB06-05-07-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	2FU042.D
Sampled:	06/19/13 11:30	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:32
Solids:	79.06	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		19	0
2,4,5,6-TCMX	2	1.877	1.894667	0.0177		19	0
Decachlorobiphenyl	* 1	6	6.021	0.021		22	9.52
Decachlorobiphenyl	2	6.053	6.089167	0.0362		20	9.52
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB06D-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	2FU043.D
Sampled:	06/19/13 11:25	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:44
Solids:	83.39	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		31	6.25
2,4,5,6-TCMX	2	1.876	1.894667	0.0187		33	6.25
Decachlorobiphenyl	* 1	6	6.021	0.021		27	16
Decachlorobiphenyl	2	6.053	6.089167	0.0362		23	16
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB06D-05-07-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	2FU044.D
Sampled:	06/19/13 11:35	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 18:56
Solids:	78.23	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	1	1.995	2.003333	0.00833		29	3.39
2,4,5,6-TCMX	* 2	1.877	1.894667	0.0177		30	3.39
Decachlorobiphenyl	* 1	5.999	6.021	0.022		27	3.64
Decachlorobiphenyl	2	6.053	6.089167	0.0362		28	3.64
DBC	* 1	5.289	5.309333	0.0203		0.10	0
DBC	2	5.185	5.218833	0.0338		0.10	0

* Column used for quantitation

TR-2ND-SB04-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	2FU045.D
Sampled:	06/19/13 12:50	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:08
Solids:	85.68	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	1	1.995	2.003333	0.00833		14	40
2,4,5,6-TCMX	* 2	1.876	1.894667	0.0187		21	40
Decachlorobiphenyl	1	6	6.021	0.021		16	51.2
Decachlorobiphenyl	* 2	6.053	6.089167	0.0362		27	51.2
DBC	1	5.288	5.309333	0.0213		0.10	0
DBC	* 2	5.185	5.218833	0.0338		0.10	0

* Column used for quantitation

TR-2ND-SB04-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	2FU046.D
Sampled:	06/19/13 13:00	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:20
Solids:	79.34	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		19	0
2,4,5,6-TCMX	2	1.877	1.894667	0.0177		19	0
Decachlorobiphenyl	* 1	6	6.021	0.021		22	20
Decachlorobiphenyl	2	6.053	6.089167	0.0362		18	20
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB05-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	2FU047.D
Sampled:	06/19/13 13:30	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:32
Solids:	75.47	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.994	2.003333	0.00933		15	12.5
2,4,5,6-TCMX	2	1.876	1.894667	0.0187		17	12.5
Decachlorobiphenyl	* 1	5.999	6.021	0.022		13	14.3
Decachlorobiphenyl	2	6.053	6.089167	0.0362		15	14.3
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB05-03-05-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	2FU048.D
Sampled:	06/19/13 13:40	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:45
Solids:	75.96	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		11	0
2,4,5,6-TCMX	2	1.876	1.894667	0.0187		11	0
Decachlorobiphenyl	* 1	6	6.021	0.021		18	5.71
Decachlorobiphenyl	2	6.053	6.089167	0.0362		17	5.71
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB03-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	2FU049.D
Sampled:	06/19/13 14:00	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 19:57
Solids:	76.63	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		15	0
2,4,5,6-TCMX	2	1.876	1.894667	0.0187		15	0
Decachlorobiphenyl	* 1	6	6.021	0.021		18	0
Decachlorobiphenyl	2	6.053	6.089167	0.0362		18	0
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB03-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	2FU050.D
Sampled:	06/19/13 14:10	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 20:09
Solids:	80.94	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		15	6.9
2,4,5,6-TCMX	2	1.876	1.894667	0.0187		14	6.9
Decachlorobiphenyl	* 1	6	6.021	0.021		17	0
Decachlorobiphenyl	2	6.053	6.089167	0.0362		17	0
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.186	5.218833	0.0328		0.10	0

* Column used for quantitation

TR-2ND-SB02-0.5-1-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	2FU051.D
Sampled:	06/19/13 14:15	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 20:21
Solids:	86.11	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		17	0
2,4,5,6-TCMX	2	1.877	1.894667	0.0177		17	0
Decachlorobiphenyl	* 1	6	6.021	0.021		12	28.6
Decachlorobiphenyl	2	6.053	6.089167	0.0362		16	28.6
DBC	* 1	5.29	5.309333	0.0193		0.10	0
DBC	2	5.185	5.218833	0.0338		0.10	0

* Column used for quantitation

TR-2ND-SB02-06-08-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2FU052.D
Sampled:	06/19/13 14:30	Prepared:	06/24/13 13:45	Analyzed:	06/26/13 20:33
Solids:	72.13	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24028	Sequence:	AA24704		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
delta-BHC	1	2.756	2.770333	0.0143		2.4	82.4
delta-BHC	* 2	2.74	2.767167	0.0272		1.0	82.4
2,4,5,6-TCMX	* 1	1.995	2.003333	0.00833		10	0
2,4,5,6-TCMX	2	1.877	1.894667	0.0177		10	0
Decachlorobiphenyl	* 1	6	6.021	0.021		14	6.9
Decachlorobiphenyl	2	6.053	6.089167	0.0362		15	6.9
DBC	* 1	5.289	5.309333	0.0203		0.10	0
DBC	2	5.185	5.218833	0.0338		0.10	0

* Column used for quantitation

TR-2ND-SB07-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06RE1	File ID:	2FX025.D
Sampled:	06/19/13 10:20	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:00
Solids:	84.46	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	1	1.985	2.003333	0.0183		14	52.6
2,4,5,6-TCMX	* 2	1.868	1.894667	0.0267		24	52.6
Decachlorobiphenyl	1	5.976	6.021	0.045		14	52.6
Decachlorobiphenyl	* 2	6.031	6.089167	0.0582		24	52.6
DBC	1	5.264	5.309333	0.0453		0.10	0
DBC	* 2	5.166	5.218833	0.0528		0.10	0

* Column used for quantitation

TR-2ND-SB07-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07RE1	File ID:	2FX026.D
Sampled:	06/19/13 10:40	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:12
Solids:	80.68	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.984	2.003333	0.0193		23	8.33
2,4,5,6-TCMX	2	1.867	1.894667	0.0277		25	8.33
Decachlorobiphenyl	* 1	5.975	6.021	0.046		25	3.92
Decachlorobiphenyl	2	6.03	6.089167	0.0592		26	3.92
DBC	* 1	5.268	5.309333	0.0413		0.10	0
DBC	2	5.165	5.218833	0.0538		0.10	0

* Column used for quantitation

TR-2ND-SB06-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09RE1	File ID:	2FX027.D
Sampled:	06/19/13 11:20	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:24
Solids:	84.06	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.985	2.003333	0.0183		28	3.64
2,4,5,6-TCMX	2	1.869	1.894667	0.0257		27	3.64
Decachlorobiphenyl	* 1	5.977	6.021	0.044		24	0
Decachlorobiphenyl	2	6.031	6.089167	0.0582		24	0
DBC	* 1	5.27	5.309333	0.0393		0.10	0
DBC	2	5.167	5.218833	0.0518		0.10	0

* Column used for quantitation

TR-2ND-SB06-05-07-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10RE1	File ID:	2FX028.D
Sampled:	06/19/13 11:30	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:36
Solids:	79.06	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.986	2.003333	0.0173		34	6.06
2,4,5,6-TCMX	2	1.869	1.894667	0.0257		32	6.06
Decachlorobiphenyl	* 1	5.978	6.021	0.043		32	3.17
Decachlorobiphenyl	2	6.032	6.089167	0.0572		31	3.17
DBC	* 1	5.27	5.309333	0.0393		0.10	0
DBC	2	5.168	5.218833	0.0508		0.10	0

* Column used for quantitation

TR-2ND-SB04-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14RE1	File ID:	2FX029.D
Sampled:	06/19/13 12:50	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 13:49
Solids:	85.68	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.987	2.003333	0.0163		28	10.2
2,4,5,6-TCMX	2	1.87	1.894667	0.0247		31	10.2
Decachlorobiphenyl	* 1	5.978	6.021	0.043		26	3.77
Decachlorobiphenyl	2	6.032	6.089167	0.0572		27	3.77
DBC	* 1	5.271	5.309333	0.0383		0.10	0
DBC	2	5.168	5.218833	0.0508		0.10	0

* Column used for quantitation

TR-2ND-SB04-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15RE1	File ID:	2FX030.D
Sampled:	06/19/13 13:00	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:01
Solids:	79.34	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.986	2.003333	0.0173		27	0
2,4,5,6-TCMX	2	1.869	1.894667	0.0257		27	0
Decachlorobiphenyl	* 1	5.978	6.021	0.043		26	8
Decachlorobiphenyl	2	6.033	6.089167	0.0562		24	8
DBC	* 1	5.271	5.309333	0.0383		0.10	0
DBC	2	5.168	5.218833	0.0508		0.10	0

* Column used for quantitation

TR-2ND-SB05-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17RE1	File ID:	2FX031.D
Sampled:	06/19/13 13:30	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:13
Solids:	75.47	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	1	1.987	2.003333	0.0163		28	13.3
2,4,5,6-TCMX	* 2	1.87	1.894667	0.0247		32	13.3
Decachlorobiphenyl	* 1	5.98	6.021	0.041		24	18.9
Decachlorobiphenyl	2	6.033	6.089167	0.0562		29	18.9
DBC	* 1	5.272	5.309333	0.0373		0.10	0
DBC	2	5.17	5.218833	0.0488		0.10	0

* Column used for quantitation

TR-2ND-SB05-03-05-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18RE1	File ID:	2FX032.D
Sampled:	06/19/13 13:40	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:25
Solids:	75.96	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.987	2.003333	0.0163		17	0
2,4,5,6-TCMX	2	1.87	1.894667	0.0247		17	0
Decachlorobiphenyl	* 1	5.98	6.021	0.041		31	3.28
Decachlorobiphenyl	2	6.034	6.089167	0.0552		30	3.28
DBC	* 1	5.273	5.309333	0.0363		0.10	0
DBC	2	5.171	5.218833	0.0478		0.10	0

* Column used for quantitation

TR-2ND-SB03-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-19RE1	File ID:	2FX033.D
Sampled:	06/19/13 14:00	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:37
Solids:	76.63	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.989	2.003333	0.0143		29	7.14
2,4,5,6-TCMX	2	1.872	1.894667	0.0227		27	7.14
Decachlorobiphenyl	* 1	5.982	6.021	0.039		29	3.51
Decachlorobiphenyl	2	6.035	6.089167	0.0542		28	3.51
DBC	* 1	5.275	5.309333	0.0343		0.10	0
DBC	2	5.172	5.218833	0.0468		0.10	0

* Column used for quantitation

TR-2ND-SB03-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20RE1	File ID:	2FX034.D
Sampled:	06/19/13 14:10	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 14:49
Solids:	80.94	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.99	2.003333	0.0133		31	3.17
2,4,5,6-TCMX	2	1.873	1.894667	0.0217		32	3.17
Decachlorobiphenyl	* 1	5.982	6.021	0.039		29	0
Decachlorobiphenyl	2	6.036	6.089167	0.0532		29	0
DBC	* 1	5.276	5.309333	0.0333		0.10	0
DBC	2	5.172	5.218833	0.0468		0.10	0

* Column used for quantitation

TR-2ND-SB02-0.5-1-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21RE1	File ID:	2FX035.D
Sampled:	06/19/13 14:15	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 15:01
Solids:	86.11	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.991	2.003333	0.0123		32	3.17
2,4,5,6-TCMX	2	1.874	1.894667	0.0207		31	3.17
Decachlorobiphenyl	* 1	5.984	6.021	0.037		23	16
Decachlorobiphenyl	2	6.037	6.089167	0.0522		27	16
DBC	* 1	5.277	5.309333	0.0323		0.10	0
DBC	2	5.174	5.218833	0.0448		0.10	0

* Column used for quantitation

TR-2ND-SB02-06-08-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22RE1	File ID:	2FX036.D
Sampled:	06/19/13 14:30	Prepared:	06/28/13 01:30	Analyzed:	06/29/13 15:13
Solids:	72.13	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28005	Sequence:	AA24761		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.993	2.003333	0.0103		24	25.5
2,4,5,6-TCMX	2	1.875	1.894667	0.0197		31	25.5
Decachlorobiphenyl	1	5.985	6.021	0.036		23	44.1
Decachlorobiphenyl	* 2	6.038	6.089167	0.0512		36	44.1
DBC	* 1	5.277	5.309333	0.0323		0.10	0
DBC	2	5.175	5.218833	0.0438		0.10	0

* Column used for quantitation

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23829	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Secondary Cal Check (AA23829-SCV1)			Lab File ID: 2DJ009.D		Analyzed: 04/15/13 14:29			
2,4,5,6-TCMX	0.200	85	80 - 120	2.012	2.003333	0.0087	+/-1.0	
2,4,5,6-TCMX [2C]	0.200	93	80 - 120	1.897	1.894667	0.0023	+/-1.0	
Decachlorobiphenyl	0.200	91	80 - 120	6.029	6.021	0.0080	+/-1.0	
Decachlorobiphenyl [2C]	0.200	99	80 - 120	6.093	6.089167	0.0038	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24704	Instrument:	OSVGCECD2
Matrix:	Soil	Calibration:	1304047

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24704-CCV1)			Lab File ID: 2FU003.D		Analyzed: 06/26/13 10:26			
2,4,5,6-TCMX	0.100	96	80 - 120	1.998	2.003333	-0.0053	+/-1.0	
2,4,5,6-TCMX	0.100	96	80 - 120	1.998	2.003333	-0.0053	+/-1.0	
2,4,5,6-TCMX [2C]	0.100	94	80 - 120	1.878	1.894667	-0.0167	+/-1.0	
2,4,5,6-TCMX [2C]	0.100	94	80 - 120	1.878	1.894667	-0.0167	+/-1.0	
Decachlorobiphenyl	0.100	91	80 - 120	5.999	6.021	-0.0220	+/-1.0	
Decachlorobiphenyl	0.100	91	80 - 120	5.999	6.021	-0.0220	+/-1.0	
Decachlorobiphenyl [2C]	0.100	88	80 - 120	6.051	6.089167	-0.0382	+/-1.0	
Decachlorobiphenyl [2C]	0.100	88	80 - 120	6.051	6.089167	-0.0382	+/-1.0	
Blank (3F24028-BLK1)			Lab File ID: 2FU009.D		Analyzed: 06/26/13 11:54			
2,4,5,6-TCMX	33.3	134	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX	33.3	134	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	33.3	140	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
2,4,5,6-TCMX [2C]	33.3	140	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	33.3	144	55 - 130	5.998	6.021	-0.0230	+/-1.0	*
Decachlorobiphenyl	33.3	144	55 - 130	5.998	6.021	-0.0230	+/-1.0	*
Decachlorobiphenyl [2C]	33.3	140	55 - 130	6.051	6.089167	-0.0382	+/-1.0	*
Decachlorobiphenyl [2C]	33.3	140	55 - 130	6.051	6.089167	-0.0382	+/-1.0	*
LCS (3F24028-BS1)			Lab File ID: 2FU010.D		Analyzed: 06/26/13 12:06			
2,4,5,6-TCMX	33.3	109	70 - 125	2	2.003333	-0.0033	+/-1.0	
2,4,5,6-TCMX	33.3	109	70 - 125	2	2.003333	-0.0033	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	109	70 - 125	1.88	1.894667	-0.0147	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	109	70 - 125	1.88	1.894667	-0.0147	+/-1.0	
Decachlorobiphenyl	33.3	107	55 - 130	6	6.021	-0.0210	+/-1.0	
Decachlorobiphenyl	33.3	107	55 - 130	6	6.021	-0.0210	+/-1.0	
Decachlorobiphenyl [2C]	33.3	101	55 - 130	6.052	6.089167	-0.0372	+/-1.0	
Decachlorobiphenyl [2C]	33.3	101	55 - 130	6.052	6.089167	-0.0372	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24704	Instrument:	OSVGCECD2
Matrix:	Soil	Calibration:	1304047

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
LCS Dup (3F24028-BSD1)			Lab File ID: 2FU011.D		Analyzed: 06/26/13 12:18			
2,4,5,6-TCMX	33.3	97	70 - 125	2	2.003333	-0.0033	+/-1.0	
2,4,5,6-TCMX	33.3	97	70 - 125	2	2.003333	-0.0033	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	95	70 - 125	1.88	1.894667	-0.0147	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	95	70 - 125	1.88	1.894667	-0.0147	+/-1.0	
Decachlorobiphenyl	33.3	96	55 - 130	5.999	6.021	-0.0220	+/-1.0	
Decachlorobiphenyl	33.3	96	55 - 130	5.999	6.021	-0.0220	+/-1.0	
Decachlorobiphenyl [2C]	33.3	89	55 - 130	6.051	6.089167	-0.0382	+/-1.0	
Decachlorobiphenyl [2C]	33.3	89	55 - 130	6.051	6.089167	-0.0382	+/-1.0	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 2FU039.D		Analyzed: 06/26/13 17:56			
2,4,5,6-TCMX	39.5	42	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	39.5	51	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	39.5	39	55 - 130	5.999	6.021	-0.0220	+/-1.0	*
Decachlorobiphenyl [2C]	39.5	43	55 - 130	6.052	6.089167	-0.0372	+/-1.0	*
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 2FU040.D		Analyzed: 06/26/13 18:08			
2,4,5,6-TCMX	41.3	51	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	41.3	52	70 - 125	1.877	1.894667	-0.0177	+/-1.0	*
Decachlorobiphenyl	41.3	54	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	41.3	50	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 2FU041.D		Analyzed: 06/26/13 18:20			
2,4,5,6-TCMX	39.1	61	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	39.1	64	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	39.1	50	55 - 130	5.998	6.021	-0.0230	+/-1.0	*
Decachlorobiphenyl [2C]	39.1	51	55 - 130	6.052	6.089167	-0.0372	+/-1.0	*
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 2FU042.D		Analyzed: 06/26/13 18:32			
2,4,5,6-TCMX	41.6	44	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	41.6	46	70 - 125	1.877	1.894667	-0.0177	+/-1.0	*
Decachlorobiphenyl	41.6	54	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	41.6	47	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 2FU043.D		Analyzed: 06/26/13 18:44			
2,4,5,6-TCMX	39.4	77	70 - 125	1.995	2.003333	-0.0083	+/-1.0	
2,4,5,6-TCMX [2C]	39.4	82	70 - 125	1.876	1.894667	-0.0187	+/-1.0	
Decachlorobiphenyl	39.4	68	55 - 130	6	6.021	-0.0210	+/-1.0	
Decachlorobiphenyl [2C]	39.4	59	55 - 130	6.053	6.089167	-0.0362	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24704	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 2FU044.D		Analyzed: 06/26/13 18:56			
2,4,5,6-TCMX	42.5	68	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	42.5	70	70 - 125	1.877	1.894667	-0.0177	+/-1.0	
Decachlorobiphenyl	42.5	64	55 - 130	5.999	6.021	-0.0220	+/-1.0	
Decachlorobiphenyl [2C]	42.5	66	55 - 130	6.053	6.089167	-0.0362	+/-1.0	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 2FU045.D		Analyzed: 06/26/13 19:08			
2,4,5,6-TCMX	38.8	36	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	38.8	54	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	38.8	41	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	38.8	71	55 - 130	6.053	6.089167	-0.0362	+/-1.0	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 2FU046.D		Analyzed: 06/26/13 19:20			
2,4,5,6-TCMX	41.5	45	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	41.5	46	70 - 125	1.877	1.894667	-0.0177	+/-1.0	*
Decachlorobiphenyl	41.5	53	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	41.5	42	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 2FU047.D		Analyzed: 06/26/13 19:32			
2,4,5,6-TCMX	43.9	34	70 - 125	1.994	2.003333	-0.0093	+/-1.0	*
2,4,5,6-TCMX [2C]	43.9	38	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	43.9	31	55 - 130	5.999	6.021	-0.0220	+/-1.0	*
Decachlorobiphenyl [2C]	43.9	33	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 2FU048.D		Analyzed: 06/26/13 19:45			
2,4,5,6-TCMX	43.6	26	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	43.6	25	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	43.6	42	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	43.6	39	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 2FU049.D		Analyzed: 06/26/13 19:57			
2,4,5,6-TCMX	42.8	34	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	42.8	34	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	42.8	42	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	42.8	42	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 2FU050.D		Analyzed: 06/26/13 20:09			
2,4,5,6-TCMX	41.0	36	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	41.0	35	70 - 125	1.876	1.894667	-0.0187	+/-1.0	*
Decachlorobiphenyl	41.0	40	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	41.0	40	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24704	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 2FU051.D		Analyzed: 06/26/13 20:21			
2,4,5,6-TCMX	38.6	44	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	38.6	44	70 - 125	1.877	1.894667	-0.0177	+/-1.0	*
Decachlorobiphenyl	38.6	32	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	38.6	42	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 2FU052.D		Analyzed: 06/26/13 20:33			
2,4,5,6-TCMX	45.9	22	70 - 125	1.995	2.003333	-0.0083	+/-1.0	*
2,4,5,6-TCMX [2C]	45.9	23	70 - 125	1.877	1.894667	-0.0177	+/-1.0	*
Decachlorobiphenyl	45.9	31	55 - 130	6	6.021	-0.0210	+/-1.0	*
Decachlorobiphenyl [2C]	45.9	32	55 - 130	6.053	6.089167	-0.0362	+/-1.0	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24761	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24761-CCV1)			Lab File ID: 2FX003.D		Analyzed: 06/29/13 08:27			
2,4,5,6-TCMX	0.100	104	80 - 120	1.975	2.003333	-0.0283	+/-1.0	
2,4,5,6-TCMX	0.100	104	80 - 120	1.975	2.003333	-0.0283	+/-1.0	
2,4,5,6-TCMX [2C]	0.100	100	80 - 120	1.858	1.894667	-0.0367	+/-1.0	
2,4,5,6-TCMX [2C]	0.100	100	80 - 120	1.858	1.894667	-0.0367	+/-1.0	
Decachlorobiphenyl	0.100	87	80 - 120	5.968	6.021	-0.0530	+/-1.0	
Decachlorobiphenyl	0.100	87	80 - 120	5.968	6.021	-0.0530	+/-1.0	
Decachlorobiphenyl [2C]	0.100	91	80 - 120	6.022	6.089167	-0.0672	+/-1.0	
Decachlorobiphenyl [2C]	0.100	91	80 - 120	6.022	6.089167	-0.0672	+/-1.0	
Blank (3F28005-BLK1)			Lab File ID: 2FX009.D		Analyzed: 06/29/13 09:47			
2,4,5,6-TCMX	33.3	123	70 - 125	1.976	2.003333	-0.0273	+/-1.0	
2,4,5,6-TCMX	33.3	123	70 - 125	1.976	2.003333	-0.0273	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	127	70 - 125	1.86	1.894667	-0.0347	+/-1.0	*
2,4,5,6-TCMX [2C]	33.3	127	70 - 125	1.86	1.894667	-0.0347	+/-1.0	*
Decachlorobiphenyl	33.3	130	55 - 130	5.969	6.021	-0.0520	+/-1.0	
Decachlorobiphenyl	33.3	130	55 - 130	5.969	6.021	-0.0520	+/-1.0	
Decachlorobiphenyl [2C]	33.3	130	55 - 130	6.024	6.089167	-0.0652	+/-1.0	
Decachlorobiphenyl [2C]	33.3	130	55 - 130	6.024	6.089167	-0.0652	+/-1.0	
LCS (3F28005-BS1)			Lab File ID: 2FX010.D		Analyzed: 06/29/13 09:59			
2,4,5,6-TCMX	33.3	112	70 - 125	1.98	2.003333	-0.0233	+/-1.0	
2,4,5,6-TCMX	33.3	112	70 - 125	1.98	2.003333	-0.0233	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	110	70 - 125	1.863	1.894667	-0.0317	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	110	70 - 125	1.863	1.894667	-0.0317	+/-1.0	
Decachlorobiphenyl	33.3	103	55 - 130	5.97	6.021	-0.0510	+/-1.0	
Decachlorobiphenyl	33.3	103	55 - 130	5.97	6.021	-0.0510	+/-1.0	
Decachlorobiphenyl [2C]	33.3	99	55 - 130	6.025	6.089167	-0.0642	+/-1.0	
Decachlorobiphenyl [2C]	33.3	99	55 - 130	6.025	6.089167	-0.0642	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24761	Instrument:	OSVGCECD2
Matrix:	Soil	Calibration:	1304047

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
LCS Dup (3F28005-BSD1)			Lab File ID: 2FX011.D		Analyzed: 06/29/13 10:12			
2,4,5,6-TCMX	33.3	102	70 - 125	1.98	2.003333	-0.0233	+/-1.0	
2,4,5,6-TCMX	33.3	102	70 - 125	1.98	2.003333	-0.0233	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	98	70 - 125	1.863	1.894667	-0.0317	+/-1.0	
2,4,5,6-TCMX [2C]	33.3	98	70 - 125	1.863	1.894667	-0.0317	+/-1.0	
Decachlorobiphenyl	33.3	96	55 - 130	5.969	6.021	-0.0520	+/-1.0	
Decachlorobiphenyl	33.3	96	55 - 130	5.969	6.021	-0.0520	+/-1.0	
Decachlorobiphenyl [2C]	33.3	90	55 - 130	6.024	6.089167	-0.0652	+/-1.0	
Decachlorobiphenyl [2C]	33.3	90	55 - 130	6.024	6.089167	-0.0652	+/-1.0	
TR-2ND-SB07-0.5-01-0613 (A303499-06RE1)			Lab File ID: 2FX025.D		Analyzed: 06/29/13 13:00			
2,4,5,6-TCMX	39.5	34	70 - 125	1.985	2.003333	-0.0183	+/-1.0	*
2,4,5,6-TCMX [2C]	39.5	60	70 - 125	1.868	1.894667	-0.0267	+/-1.0	*
Decachlorobiphenyl	39.5	36	55 - 130	5.976	6.021	-0.0450	+/-1.0	*
Decachlorobiphenyl [2C]	39.5	61	55 - 130	6.031	6.089167	-0.0582	+/-1.0	
TR-2ND-SB07-04-06-0613 (A303499-07RE1)			Lab File ID: 2FX026.D		Analyzed: 06/29/13 13:12			
2,4,5,6-TCMX	41.2	57	70 - 125	1.984	2.003333	-0.0193	+/-1.0	*
2,4,5,6-TCMX [2C]	41.2	62	70 - 125	1.867	1.894667	-0.0277	+/-1.0	*
Decachlorobiphenyl	41.2	60	55 - 130	5.975	6.021	-0.0460	+/-1.0	
Decachlorobiphenyl [2C]	41.2	63	55 - 130	6.03	6.089167	-0.0592	+/-1.0	
TR-2ND-SB06-0.5-01-0613 (A303499-09RE1)			Lab File ID: 2FX027.D		Analyzed: 06/29/13 13:24			
2,4,5,6-TCMX	39.7	69	70 - 125	1.985	2.003333	-0.0183	+/-1.0	*
2,4,5,6-TCMX [2C]	39.7	67	70 - 125	1.869	1.894667	-0.0257	+/-1.0	*
Decachlorobiphenyl	39.7	61	55 - 130	5.977	6.021	-0.0440	+/-1.0	
Decachlorobiphenyl [2C]	39.7	61	55 - 130	6.031	6.089167	-0.0582	+/-1.0	
TR-2ND-SB06-05-07-0613 (A303499-10RE1)			Lab File ID: 2FX028.D		Analyzed: 06/29/13 13:36			
2,4,5,6-TCMX	41.9	81	70 - 125	1.986	2.003333	-0.0173	+/-1.0	
2,4,5,6-TCMX [2C]	41.9	77	70 - 125	1.869	1.894667	-0.0257	+/-1.0	
Decachlorobiphenyl	41.9	76	55 - 130	5.978	6.021	-0.0430	+/-1.0	
Decachlorobiphenyl [2C]	41.9	75	55 - 130	6.032	6.089167	-0.0572	+/-1.0	
TR-2ND-SB04-0.5-01-0613 (A303499-14RE1)			Lab File ID: 2FX029.D		Analyzed: 06/29/13 13:49			
2,4,5,6-TCMX	38.6	72	70 - 125	1.987	2.003333	-0.0163	+/-1.0	
2,4,5,6-TCMX [2C]	38.6	80	70 - 125	1.87	1.894667	-0.0247	+/-1.0	
Decachlorobiphenyl	38.6	66	55 - 130	5.978	6.021	-0.0430	+/-1.0	
Decachlorobiphenyl [2C]	38.6	71	55 - 130	6.032	6.089167	-0.0572	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24761	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB04-04-06-0613 (A303499-15RE1)			Lab File ID: 2FX030.D		Analyzed: 06/29/13 14:01			
2,4,5,6-TCMX	42.0	64	70 - 125	1.986	2.003333	-0.0173	+/-1.0	*
2,4,5,6-TCMX [2C]	42.0	64	70 - 125	1.869	1.894667	-0.0257	+/-1.0	*
Decachlorobiphenyl	42.0	61	55 - 130	5.978	6.021	-0.0430	+/-1.0	
Decachlorobiphenyl [2C]	42.0	58	55 - 130	6.033	6.089167	-0.0562	+/-1.0	
TR-2ND-SB05-0.5-01-0613 (A303499-17RE1)			Lab File ID: 2FX031.D		Analyzed: 06/29/13 14:13			
2,4,5,6-TCMX	44.2	63	70 - 125	1.987	2.003333	-0.0163	+/-1.0	*
2,4,5,6-TCMX [2C]	44.2	72	70 - 125	1.87	1.894667	-0.0247	+/-1.0	
Decachlorobiphenyl	44.2	55	55 - 130	5.98	6.021	-0.0410	+/-1.0	
Decachlorobiphenyl [2C]	44.2	66	55 - 130	6.033	6.089167	-0.0562	+/-1.0	
TR-2ND-SB05-03-05-0613 (A303499-18RE1)			Lab File ID: 2FX032.D		Analyzed: 06/29/13 14:25			
2,4,5,6-TCMX	43.3	40	70 - 125	1.987	2.003333	-0.0163	+/-1.0	*
2,4,5,6-TCMX [2C]	43.3	39	70 - 125	1.87	1.894667	-0.0247	+/-1.0	*
Decachlorobiphenyl	43.3	73	55 - 130	5.98	6.021	-0.0410	+/-1.0	
Decachlorobiphenyl [2C]	43.3	70	55 - 130	6.034	6.089167	-0.0552	+/-1.0	
TR-2ND-SB03-0.5-01-0613 (A303499-19RE1)			Lab File ID: 2FX033.D		Analyzed: 06/29/13 14:37			
2,4,5,6-TCMX	43.4	67	70 - 125	1.989	2.003333	-0.0143	+/-1.0	*
2,4,5,6-TCMX [2C]	43.4	63	70 - 125	1.872	1.894667	-0.0227	+/-1.0	*
Decachlorobiphenyl	43.4	66	55 - 130	5.982	6.021	-0.0390	+/-1.0	
Decachlorobiphenyl [2C]	43.4	64	55 - 130	6.035	6.089167	-0.0542	+/-1.0	
TR-2ND-SB03-04-06-0613 (A303499-20RE1)			Lab File ID: 2FX034.D		Analyzed: 06/29/13 14:49			
2,4,5,6-TCMX	41.2	75	70 - 125	1.99	2.003333	-0.0133	+/-1.0	
2,4,5,6-TCMX [2C]	41.2	78	70 - 125	1.873	1.894667	-0.0217	+/-1.0	
Decachlorobiphenyl	41.2	71	55 - 130	5.982	6.021	-0.0390	+/-1.0	
Decachlorobiphenyl [2C]	41.2	71	55 - 130	6.036	6.089167	-0.0532	+/-1.0	
TR-2ND-SB02-0.5-1-0613 (A303499-21RE1)			Lab File ID: 2FX035.D		Analyzed: 06/29/13 15:01			
2,4,5,6-TCMX	38.7	83	70 - 125	1.991	2.003333	-0.0123	+/-1.0	
2,4,5,6-TCMX [2C]	38.7	80	70 - 125	1.874	1.894667	-0.0207	+/-1.0	
Decachlorobiphenyl	38.7	59	55 - 130	5.984	6.021	-0.0370	+/-1.0	
Decachlorobiphenyl [2C]	38.7	71	55 - 130	6.037	6.089167	-0.0522	+/-1.0	
TR-2ND-SB02-06-08-0613 (A303499-22RE1)			Lab File ID: 2FX036.D		Analyzed: 06/29/13 15:13			
2,4,5,6-TCMX	45.8	52	70 - 125	1.993	2.003333	-0.0103	+/-1.0	*
2,4,5,6-TCMX [2C]	45.8	67	70 - 125	1.875	1.894667	-0.0197	+/-1.0	*
Decachlorobiphenyl	45.8	49	55 - 130	5.985	6.021	-0.0360	+/-1.0	*
Decachlorobiphenyl [2C]	45.8	79	55 - 130	6.038	6.089167	-0.0512	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23829	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (AA23829-CAL1)			Lab File ID: 2DJ003.D			Analyzed: 04/15/13 10:08			
DBC	322200000	5.309	3.764E+08	5.31	86	50 - 200	-0.0010	+/-0.50	
DBC [2C]	199300000	5.217	2.1E+08	5.22	95	50 - 200	-0.0030	+/-0.50	
Cal Standard (AA23829-CAL2)			Lab File ID: 2DJ004.D			Analyzed: 04/15/13 10:20			
DBC	397700000	5.309	3.764E+08	5.31	106	50 - 200	-0.0010	+/-0.50	
DBC [2C]	251200000	5.218	2.1E+08	5.22	120	50 - 200	-0.0020	+/-0.50	
Cal Standard (AA23829-CAL3)			Lab File ID: 2DJ005.D			Analyzed: 04/15/13 10:32			
DBC	344100000	5.309	3.764E+08	5.31	91	50 - 200	-0.0010	+/-0.50	
DBC [2C]	198200000	5.219	2.1E+08	5.22	94	50 - 200	-0.0010	+/-0.50	
Cal Standard (AA23829-CAL4)			Lab File ID: 2DJ006.D			Analyzed: 04/15/13 10:44			
DBC	376400000	5.31	3.764E+08	5.31	100	50 - 200	0.0000	+/-0.50	
DBC [2C]	210000000	5.22	2.1E+08	5.22	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA23829-CAL5)			Lab File ID: 2DJ007.D			Analyzed: 04/15/13 10:56			
DBC	413800000	5.31	3.764E+08	5.31	110	50 - 200	0.0000	+/-0.50	
DBC [2C]	220400000	5.22	2.1E+08	5.22	105	50 - 200	0.0000	+/-0.50	
Cal Standard (AA23829-CAL6)			Lab File ID: 2DJ008.D			Analyzed: 04/15/13 11:08			
DBC	407900000	5.309	3.764E+08	5.31	108	50 - 200	-0.0010	+/-0.50	
DBC [2C]	195300000	5.219	2.1E+08	5.22	93	50 - 200	-0.0010	+/-0.50	
Secondary Cal Check (AA23829-SCV1)			Lab File ID: 2DJ009.D			Analyzed: 04/15/13 14:29			
DBC	516500000	5.317	3.764E+08	5.31	137	50 - 200	0.0070	+/-0.50	
DBC [2C]	261300000	5.221	2.1E+08	5.22	124	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24704
Instrument: OSVGCECD2
Matrix: Water
Calibration: 1304047

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Performance Mix (AA24704-PEM1)			Lab File ID: 2FU002.D			Analyzed: 06/26/13 09:44			
DBC	234100000	5.287	3.764E+08	5.31	62	50 - 200	-0.0230	+/-0.50	
DBC	234100000	5.287	3.764E+08	5.31	62	50 - 200	-0.0230	+/-0.50	
DBC [2C]	131200000	5.181	2.1E+08	5.22	62	50 - 200	-0.0390	+/-0.50	
DBC [2C]	131200000	5.181	2.1E+08	5.22	62	50 - 200	-0.0390	+/-0.50	
Calibration Check (AA24704-CCV1)			Lab File ID: 2FU003.D			Analyzed: 06/26/13 10:26			
DBC	504300000	5.29	3.764E+08	5.31	134	50 - 200	-0.0200	+/-0.50	
DBC	504300000	5.29	3.764E+08	5.31	134	50 - 200	-0.0200	+/-0.50	
DBC [2C]	277200000	5.184	2.1E+08	5.22	132	50 - 200	-0.0360	+/-0.50	
DBC [2C]	277200000	5.184	2.1E+08	5.22	132	50 - 200	-0.0360	+/-0.50	
Blank (3F24028-BLK1)			Lab File ID: 2FU009.D			Analyzed: 06/26/13 11:54			
DBC	347800000	5.289	3.764E+08	5.31	92	50 - 200	-0.0210	+/-0.50	
DBC	347800000	5.289	3.764E+08	5.31	92	50 - 200	-0.0210	+/-0.50	
DBC [2C]	190500000	5.184	2.1E+08	5.22	91	50 - 200	-0.0360	+/-0.50	
DBC [2C]	190500000	5.184	2.1E+08	5.22	91	50 - 200	-0.0360	+/-0.50	
LCS (3F24028-BS1)			Lab File ID: 2FU010.D			Analyzed: 06/26/13 12:06			
DBC	428100000	5.29	3.764E+08	5.31	114	50 - 200	-0.0200	+/-0.50	
DBC	428100000	5.29	3.764E+08	5.31	114	50 - 200	-0.0200	+/-0.50	
DBC [2C]	238800000	5.185	2.1E+08	5.22	114	50 - 200	-0.0350	+/-0.50	
DBC [2C]	238800000	5.185	2.1E+08	5.22	114	50 - 200	-0.0350	+/-0.50	
LCS Dup (3F24028-BSD1)			Lab File ID: 2FU011.D			Analyzed: 06/26/13 12:18			
DBC	524600000	5.29	3.764E+08	5.31	139	50 - 200	-0.0200	+/-0.50	
DBC	524600000	5.29	3.764E+08	5.31	139	50 - 200	-0.0200	+/-0.50	
DBC [2C]	293400000	5.185	2.1E+08	5.22	140	50 - 200	-0.0350	+/-0.50	
DBC [2C]	293400000	5.185	2.1E+08	5.22	140	50 - 200	-0.0350	+/-0.50	
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 2FU039.D			Analyzed: 06/26/13 17:56			
DBC	695900000	5.288	3.764E+08	5.31	185	50 - 200	-0.0220	+/-0.50	
DBC [2C]	321400000	5.185	2.1E+08	5.22	153	50 - 200	-0.0350	+/-0.50	
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 2FU040.D			Analyzed: 06/26/13 18:08			
DBC	527500000	5.29	3.764E+08	5.31	140	50 - 200	-0.0200	+/-0.50	
DBC [2C]	303400000	5.186	2.1E+08	5.22	144	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 2FU041.D			Analyzed: 06/26/13 18:20			
DBC	584700000	5.289	3.764E+08	5.31	155	50 - 200	-0.0210	+/-0.50	
DBC [2C]	318600000	5.184	2.1E+08	5.22	152	50 - 200	-0.0360	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24704	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 2FU042.D			Analyzed: 06/26/13 18:32			
DBC	523300000	5.29	3.764E+08	5.31	139	50 - 200	-0.0200	+/-0.50	
DBC [2C]	304400000	5.186	2.1E+08	5.22	145	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 2FU043.D			Analyzed: 06/26/13 18:44			
DBC	456900000	5.29	3.764E+08	5.31	121	50 - 200	-0.0200	+/-0.50	
DBC [2C]	255400000	5.186	2.1E+08	5.22	122	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 2FU044.D			Analyzed: 06/26/13 18:56			
DBC	431300000	5.289	3.764E+08	5.31	115	50 - 200	-0.0210	+/-0.50	
DBC [2C]	248700000	5.185	2.1E+08	5.22	118	50 - 200	-0.0350	+/-0.50	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 2FU045.D			Analyzed: 06/26/13 19:08			
DBC	817200000	5.288	3.764E+08	5.31	217	50 - 200	-0.0220	+/-0.50	*
DBC [2C]	288700000	5.185	2.1E+08	5.22	137	50 - 200	-0.0350	+/-0.50	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 2FU046.D			Analyzed: 06/26/13 19:20			
DBC	557200000	5.29	3.764E+08	5.31	148	50 - 200	-0.0200	+/-0.50	
DBC [2C]	319600000	5.186	2.1E+08	5.22	152	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 2FU047.D			Analyzed: 06/26/13 19:32			
DBC	544800000	5.29	3.764E+08	5.31	145	50 - 200	-0.0200	+/-0.50	
DBC [2C]	305800000	5.186	2.1E+08	5.22	146	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 2FU048.D			Analyzed: 06/26/13 19:45			
DBC	591100000	5.29	3.764E+08	5.31	157	50 - 200	-0.0200	+/-0.50	
DBC [2C]	347900000	5.186	2.1E+08	5.22	166	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 2FU049.D			Analyzed: 06/26/13 19:57			
DBC	567600000	5.29	3.764E+08	5.31	151	50 - 200	-0.0200	+/-0.50	
DBC [2C]	327800000	5.186	2.1E+08	5.22	156	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 2FU050.D			Analyzed: 06/26/13 20:09			
DBC	555400000	5.29	3.764E+08	5.31	148	50 - 200	-0.0200	+/-0.50	
DBC [2C]	321200000	5.186	2.1E+08	5.22	153	50 - 200	-0.0340	+/-0.50	
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 2FU051.D			Analyzed: 06/26/13 20:21			
DBC	573500000	5.29	3.764E+08	5.31	152	50 - 200	-0.0200	+/-0.50	
DBC [2C]	332400000	5.185	2.1E+08	5.22	158	50 - 200	-0.0350	+/-0.50	
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 2FU052.D			Analyzed: 06/26/13 20:33			
DBC	580000000	5.289	3.764E+08	5.31	154	50 - 200	-0.0210	+/-0.50	
DBC [2C]	323500000	5.185	2.1E+08	5.22	154	50 - 200	-0.0350	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA24761
Instrument: OSVGCECD2
Matrix: Water
Calibration: 1304047

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Performance Mix (AA24761-PEM1)			Lab File ID: 2FX002.D			Analyzed: 06/29/13 08:15			
DBC	251800000	5.259	3.764E+08	5.31	67	50 - 200	-0.0510	+/-0.50	
DBC	251800000	5.259	3.764E+08	5.31	67	50 - 200	-0.0510	+/-0.50	
DBC [2C]	146600000	5.153	2.1E+08	5.22	70	50 - 200	-0.0670	+/-0.50	
DBC [2C]	146600000	5.153	2.1E+08	5.22	70	50 - 200	-0.0670	+/-0.50	
Calibration Check (AA24761-CCV1)			Lab File ID: 2FX003.D			Analyzed: 06/29/13 08:27			
DBC	464000000	5.258	3.764E+08	5.31	123	50 - 200	-0.0520	+/-0.50	
DBC	464000000	5.258	3.764E+08	5.31	123	50 - 200	-0.0520	+/-0.50	
DBC [2C]	262900000	5.155	2.1E+08	5.22	125	50 - 200	-0.0650	+/-0.50	
DBC [2C]	262900000	5.155	2.1E+08	5.22	125	50 - 200	-0.0650	+/-0.50	
Blank (3F28005-BLK1)			Lab File ID: 2FX009.D			Analyzed: 06/29/13 09:47			
DBC	387400000	5.26	3.764E+08	5.31	103	50 - 200	-0.0500	+/-0.50	
DBC	387400000	5.26	3.764E+08	5.31	103	50 - 200	-0.0500	+/-0.50	
DBC [2C]	214500000	5.157	2.1E+08	5.22	102	50 - 200	-0.0630	+/-0.50	
DBC [2C]	214500000	5.157	2.1E+08	5.22	102	50 - 200	-0.0630	+/-0.50	
LCS (3F28005-BS1)			Lab File ID: 2FX010.D			Analyzed: 06/29/13 09:59			
DBC	432400000	5.262	3.764E+08	5.31	115	50 - 200	-0.0480	+/-0.50	
DBC	432400000	5.262	3.764E+08	5.31	115	50 - 200	-0.0480	+/-0.50	
DBC [2C]	247300000	5.159	2.1E+08	5.22	118	50 - 200	-0.0610	+/-0.50	
DBC [2C]	247300000	5.159	2.1E+08	5.22	118	50 - 200	-0.0610	+/-0.50	
LCS Dup (3F28005-BSD1)			Lab File ID: 2FX011.D			Analyzed: 06/29/13 10:12			
DBC	492000000	5.261	3.764E+08	5.31	131	50 - 200	-0.0490	+/-0.50	
DBC	492000000	5.261	3.764E+08	5.31	131	50 - 200	-0.0490	+/-0.50	
DBC [2C]	283300000	5.159	2.1E+08	5.22	135	50 - 200	-0.0610	+/-0.50	
DBC [2C]	283300000	5.159	2.1E+08	5.22	135	50 - 200	-0.0610	+/-0.50	
TR-2ND-SB07-0.5-01-0613 (A303499-06RE1)			Lab File ID: 2FX025.D			Analyzed: 06/29/13 13:00			
DBC	1053100000	5.264	3.764E+08	5.31	280	50 - 200	-0.0460	+/-0.50	*
DBC [2C]	353200000	5.166	2.1E+08	5.22	168	50 - 200	-0.0540	+/-0.50	
TR-2ND-SB07-04-06-0613 (A303499-07RE1)			Lab File ID: 2FX026.D			Analyzed: 06/29/13 13:12			
DBC	637000000	5.268	3.764E+08	5.31	169	50 - 200	-0.0420	+/-0.50	
DBC [2C]	345600000	5.165	2.1E+08	5.22	165	50 - 200	-0.0550	+/-0.50	
TR-2ND-SB06-0.5-01-0613 (A303499-09RE1)			Lab File ID: 2FX027.D			Analyzed: 06/29/13 13:24			
DBC	584700000	5.27	3.764E+08	5.31	155	50 - 200	-0.0400	+/-0.50	
DBC [2C]	341800000	5.167	2.1E+08	5.22	163	50 - 200	-0.0530	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24761	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1304047

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
TR-2ND-SB06-05-07-0613 (A303499-10RE1)			Lab File ID: 2FX028.D			Analyzed: 06/29/13 13:36			
DBC	520200000	5.27	3.764E+08	5.31	138	50 - 200	-0.0400	+/-0.50	
DBC [2C]	311900000	5.168	2.1E+08	5.22	149	50 - 200	-0.0520	+/-0.50	
TR-2ND-SB04-0.5-01-0613 (A303499-14RE1)			Lab File ID: 2FX029.D			Analyzed: 06/29/13 13:49			
DBC	539700000	5.271	3.764E+08	5.31	143	50 - 200	-0.0390	+/-0.50	
DBC [2C]	281600000	5.168	2.1E+08	5.22	134	50 - 200	-0.0520	+/-0.50	
TR-2ND-SB04-04-06-0613 (A303499-15RE1)			Lab File ID: 2FX030.D			Analyzed: 06/29/13 14:01			
DBC	518600000	5.271	3.764E+08	5.31	138	50 - 200	-0.0390	+/-0.50	
DBC [2C]	299600000	5.168	2.1E+08	5.22	143	50 - 200	-0.0520	+/-0.50	
TR-2ND-SB05-0.5-01-0613 (A303499-17RE1)			Lab File ID: 2FX031.D			Analyzed: 06/29/13 14:13			
DBC	599600000	5.272	3.764E+08	5.31	159	50 - 200	-0.0380	+/-0.50	
DBC [2C]	313300000	5.17	2.1E+08	5.22	149	50 - 200	-0.0500	+/-0.50	
TR-2ND-SB05-03-05-0613 (A303499-18RE1)			Lab File ID: 2FX032.D			Analyzed: 06/29/13 14:25			
DBC	539800000	5.273	3.764E+08	5.31	143	50 - 200	-0.0370	+/-0.50	
DBC [2C]	320500000	5.171	2.1E+08	5.22	153	50 - 200	-0.0490	+/-0.50	
TR-2ND-SB03-0.5-01-0613 (A303499-19RE1)			Lab File ID: 2FX033.D			Analyzed: 06/29/13 14:37			
DBC	543900000	5.275	3.764E+08	5.31	145	50 - 200	-0.0350	+/-0.50	
DBC [2C]	331000000	5.172	2.1E+08	5.22	158	50 - 200	-0.0480	+/-0.50	
TR-2ND-SB03-04-06-0613 (A303499-20RE1)			Lab File ID: 2FX034.D			Analyzed: 06/29/13 14:49			
DBC	533100000	5.276	3.764E+08	5.31	142	50 - 200	-0.0340	+/-0.50	
DBC [2C]	294000000	5.172	2.1E+08	5.22	140	50 - 200	-0.0480	+/-0.50	
TR-2ND-SB02-0.5-1-0613 (A303499-21RE1)			Lab File ID: 2FX035.D			Analyzed: 06/29/13 15:01			
DBC	532800000	5.277	3.764E+08	5.31	142	50 - 200	-0.0330	+/-0.50	
DBC [2C]	317200000	5.174	2.1E+08	5.22	151	50 - 200	-0.0460	+/-0.50	
TR-2ND-SB02-06-08-0613 (A303499-22RE1)			Lab File ID: 2FX036.D			Analyzed: 06/29/13 15:13			
DBC	628700000	5.277	3.764E+08	5.31	167	50 - 200	-0.0330	+/-0.50	
DBC [2C]	261400000	5.175	2.1E+08	5.22	124	50 - 200	-0.0450	+/-0.50	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA23829	Instrument:	OSVGCECD2
		Calibration:	1304047

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	AA23829-CAL1	2DJ003.D	04/15/13 10:08
Cal Standard	AA23829-CAL2	2DJ004.D	04/15/13 10:20
Cal Standard	AA23829-CAL3	2DJ005.D	04/15/13 10:32
Cal Standard	AA23829-CAL4	2DJ006.D	04/15/13 10:44
Cal Standard	AA23829-CAL5	2DJ007.D	04/15/13 10:56
Cal Standard	AA23829-CAL6	2DJ008.D	04/15/13 11:08
Secondary Cal Check	AA23829-SCV1	2DJ009.D	04/15/13 14:29

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24704	Instrument:	OSVGCECD2
		Calibration:	1304047

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	AA24704-PEM1	2FU002.D	06/26/13 09:44
Calibration Check	AA24704-CCV1	2FU003.D	06/26/13 10:26
Blank	3F24028-BLK1	2FU009.D	06/26/13 11:54
LCS	3F24028-BS1	2FU010.D	06/26/13 12:06
LCS Dup	3F24028-BSD1	2FU011.D	06/26/13 12:18
TR-2ND-SB07-0.5-01-0613	A303499-06	2FU039.D	06/26/13 17:56
TR-2ND-SB07-04-06-0613	A303499-07	2FU040.D	06/26/13 18:08
TR-2ND-SB06-0.5-01-0613	A303499-09	2FU041.D	06/26/13 18:20
TR-2ND-SB06-05-07-0613	A303499-10	2FU042.D	06/26/13 18:32
TR-2ND-SB06D-0.5-01-0613	A303499-11	2FU043.D	06/26/13 18:44
TR-2ND-SB06D-05-07-0613	A303499-12	2FU044.D	06/26/13 18:56
TR-2ND-SB04-0.5-01-0613	A303499-14	2FU045.D	06/26/13 19:08
TR-2ND-SB04-04-06-0613	A303499-15	2FU046.D	06/26/13 19:20
TR-2ND-SB05-0.5-01-0613	A303499-17	2FU047.D	06/26/13 19:32
TR-2ND-SB05-03-05-0613	A303499-18	2FU048.D	06/26/13 19:45
TR-2ND-SB03-0.5-01-0613	A303499-19	2FU049.D	06/26/13 19:57
TR-2ND-SB03-04-06-0613	A303499-20	2FU050.D	06/26/13 20:09
TR-2ND-SB02-0.5-1-0613	A303499-21	2FU051.D	06/26/13 20:21
TR-2ND-SB02-06-08-0613	A303499-22	2FU052.D	06/26/13 20:33

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24761	Instrument:	OSVGCECD2
		Calibration:	1304047

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	AA24761-PEM1	2FX002.D	06/29/13 08:15
Calibration Check	AA24761-CCV1	2FX003.D	06/29/13 08:27
Blank	3F28005-BLK1	2FX009.D	06/29/13 09:47
LCS	3F28005-BS1	2FX010.D	06/29/13 09:59
LCS Dup	3F28005-BSD1	2FX011.D	06/29/13 10:12
TR-2ND-SB07-0.5-01-0613	A303499-06RE1	2FX025.D	06/29/13 13:00
TR-2ND-SB07-04-06-0613	A303499-07RE1	2FX026.D	06/29/13 13:12
TR-2ND-SB06-0.5-01-0613	A303499-09RE1	2FX027.D	06/29/13 13:24
TR-2ND-SB06-05-07-0613	A303499-10RE1	2FX028.D	06/29/13 13:36
TR-2ND-SB04-0.5-01-0613	A303499-14RE1	2FX029.D	06/29/13 13:49
TR-2ND-SB04-04-06-0613	A303499-15RE1	2FX030.D	06/29/13 14:01
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	2FX031.D	06/29/13 14:13
TR-2ND-SB05-03-05-0613	A303499-18RE1	2FX032.D	06/29/13 14:25
TR-2ND-SB03-0.5-01-0613	A303499-19RE1	2FX033.D	06/29/13 14:37
TR-2ND-SB03-04-06-0613	A303499-20RE1	2FX034.D	06/29/13 14:49
TR-2ND-SB02-0.5-1-0613	A303499-21RE1	2FX035.D	06/29/13 15:01
TR-2ND-SB02-06-08-0613	A303499-22RE1	2FX036.D	06/29/13 15:13

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1304047
Lab File ID:	2FU003.D	Calibration Date:	04/16/13 08:54
Sequence:	AA24704	Injection Date:	06/26/13
Lab Sample ID:	AA24704-CCV1	Injection Time:	10:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	L	0.100	0.11	1.548965	1.774539		6.2	20
gamma-BHC	A	0.100	0.10	1.274631	1.291295		1.3	20
beta-BHC	A	0.100	0.097	0.5992649	0.5810034		-3.0	20
delta-BHC	L	0.100	0.11	1.370397	1.611144		7.6	20
Heptachlor	A	0.100	0.090	1.264395	1.137022		-10.1	20
Aldrin	L	0.100	0.10	1.646523	1.742019		0.0	20
Heptachlor epoxide	A	0.100	0.099	1.272369	1.264327		-0.6	20
Chlordane-gamma	A	0.100	0.10	1.274915	1.296054		1.7	20
Chlordane-alpha	A	0.100	0.10	1.266268	1.269284		0.2	20
4,4'-DDE	L	0.100	0.10	1.65308	1.81162		1.7	20
Endosulfan I	A	0.100	0.10	1.224108	1.22209		-0.2	20
Dieldrin	A	0.100	0.11	1.275014	1.344041		5.4	20
Endrin	L	0.100	0.099	1.154558	1.215348		-1.0	20
4,4'-DDD	L	0.100	0.097	1.000398	1.037081		-2.8	20
Endosulfan II	A	0.100	0.097	1.050661	1.018045		-3.1	20
4,4'-DDT	A	0.100	0.096	0.8654057	0.8282768		-4.3	20
Endrin aldehyde	A	0.100	0.095	0.8301473	0.7864366		-5.3	20
Methoxychlor	A	0.100	0.092	0.4232449	0.3894507		-8.0	20
Endosulfan sulfate	A	0.100	0.095	0.9621134	0.9157248		-4.8	20
Endrin ketone	A	0.100	0.088	1.122334	0.9928614		-11.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1304047
Lab File ID:	2FX003.D	Calibration Date:	04/16/13 08:54
Sequence:	AA24761	Injection Date:	06/29/13
Lab Sample ID:	AA24761-CCV1	Injection Time:	08:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	L	0.100	0.11	1.548965	1.883836		12.6	20
gamma-BHC	A	0.100	0.11	1.274631	1.374138		7.8	20
beta-BHC	A	0.100	0.10	0.5992649	0.5969828		-0.4	20
delta-BHC	L	0.100	0.11	1.370397	1.707974		13.9	20
Heptachlor	A	0.100	0.10	1.264395	1.309052		3.5	20
Aldrin	L	0.100	0.10	1.646523	1.78944		2.7	20
Heptachlor epoxide	A	0.100	0.097	1.272369	1.228879		-3.4	20
Chlordane-gamma	A	0.100	0.10	1.274915	1.313147		3.0	20
Chlordane-alpha	A	0.100	0.10	1.266268	1.265948		-0.03	20
4,4'-DDE	L	0.100	0.11	1.65308	1.909698		7.3	20
Endosulfan I	A	0.100	0.10	1.224108	1.258405		2.8	20
Dieldrin	A	0.100	0.11	1.275014	1.390086		9.0	20
Endrin	L	0.100	0.11	1.154558	1.3125		6.9	20
4,4'-DDD	L	0.100	0.097	1.000398	1.030603		-3.4	20
Endosulfan II	A	0.100	0.099	1.050661	1.036638		-1.3	20
4,4'-DDT	A	0.100	0.10	0.8654057	0.9077586		4.9	20
Endrin aldehyde	A	0.100	0.096	0.8301473	0.7956897		-4.2	20
Methoxychlor	A	0.100	0.099	0.4232449	0.418319		-1.2	20
Endosulfan sulfate	A	0.100	0.093	0.9621134	0.8965517		-6.8	20
Endrin ketone	A	0.100	0.091	1.122334	1.018534		-9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA22974
Calibration: 1304047
Instrument: OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3A0695	Pesticides Chlordane (tech) working cal 1	AA22974-CAL1	2Ay012.D	01/30/13 19:11
A3A0694	Pesticides Chlordane (tech) working cal 2	AA22974-CAL2	2Ay013.D	01/30/13 19:23
A3A0692	Pesticides Chlordane (tech) working cal 3	AA22974-CAL3	2Ay014.D	01/30/13 19:35
A3A0691	Pesticides Chlordane (tech) working cal 4	AA22974-CAL4	2Ay015.D	01/30/13 19:47
A3A0690	Pesticides Chlordane (tech) working cal 5	AA22974-CAL5	2Ay016.D	01/30/13 19:59
A3A0689	Pesticides Chlordane (tech) working cal 6	AA22974-CAL6	2Ay017.D	01/30/13 20:12
A3B0051	Pesticides Chlordane (tech) working SCV1	AA22974-SCV1	2Ay018.D	01/30/13 20:23

INITIAL CALIBRATION STANDARDS

EPA 8081B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA22975
Calibration: 1304047
Instrument: OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3A0703	Pesticides working Curve Toxaphene Cal-1	AA22975-CAL1	2Ay022.D	01/30/13 21:11
A3A0701	Pesticides working Curve Toxaphene Cal-2	AA22975-CAL2	2Ay023.D	01/30/13 21:23
A3A0700	Pesticides working Curve Toxaphene Cal-3	AA22975-CAL3	2Ay024.D	01/30/13 21:35
A3A0699	Pesticides working Curve Toxaphene Cal-4	AA22975-CAL4	2Ay025.D	01/30/13 21:47
A3A0698	Pesticides working Curve Toxaphene Cal-5	AA22975-CAL5	2Ay026.D	01/30/13 21:59
A3A0696	Pesticides working Curve Toxaphene Cal-6	AA22975-CAL6	2Ay027.D	01/30/13 22:11
A3A0688	Pesticides working Curve Toxaphene SCV1	AA22975-SCV1	2Ay028.D	01/30/13 22:23

INITIAL CALIBRATION STANDARDS

EPA 8081B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA23829
Calibration: 1304047
Instrument: OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3A0710	Pesticides Working Curve Cal-1	AA23829-CAL1	2DJ003.D	04/15/13 10:08
A3A0709	Pesticides Working Curve Cal-2	AA23829-CAL2	2DJ004.D	04/15/13 10:20

A3A0708	Pesticides Working Curve Cal-3	AA23829-CAL3	2DJ005.D	04/15/13 10:32
A3A0707	Pesticides Working Curve Cal-4	AA23829-CAL4	2DJ006.D	04/15/13 10:44
A3A0706	Pesticides Working Curve Cal-5	AA23829-CAL5	2DJ007.D	04/15/13 10:56
A3A0705	Pesticides Working Curve Cal-6	AA23829-CAL6	2DJ008.D	04/15/13 11:08
A3D0276	Pesticides Organochlor Working SCV1	AA23829-SCV1	2DJ009.D	04/15/13 14:29

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1304047

Instrument: OSVGCECD2

Matrix: Water

Calibration Date: 04/16/13 08:54

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	1.302557	0.01	1.286695	0.05	1.605929	0.1	1.776833	0.2	1.618173	0.4	1.703604
gamma-BHC	0.005	1.175693	0.01	1.11607	0.05	1.281604	0.1	1.437832	0.2	1.294224	0.4	1.342363
beta-BHC	0.005	0.6156109	0.01	0.649384	0.05	0.569255	0.1	0.6014878	0.2	0.5544949	0.4	0.6053567
delta-BHC	0.005	1.179624	0.01	1.105217	0.05	1.385644	0.1	1.544368	0.2	1.462542	0.4	1.544986
Heptachlor	0.005	1.298282	0.01	1.170678	0.05	1.276373	0.1	1.39559	0.2	1.237675	0.4	1.207772
Aldrin	0.005	1.470549	0.01	1.362471	0.05	1.75356	0.1	1.829968	0.2	1.713509	0.4	1.749081
Heptachlor epoxide	0.005	1.235773	0.01	1.113003	0.05	1.276954	0.1	1.368225	0.2	1.294828	0.4	1.345428
Chlordane-gamma	0.005	1.346228	0.01	1.120313	0.05	1.230456	0.1	1.341923	0.2	1.258096	0.4	1.352476
Chlordane-alpha	0.005	1.216578	0.01	1.091902	0.05	1.257193	0.1	1.357333	0.2	1.293137	0.4	1.381466
4,4'-DDE	0.005	1.362228	0.01	1.306967	0.05	1.844813	0.1	1.850691	0.2	1.790358	0.4	1.763422
Endosulfan I	0.005	1.178717	0.01	1.063348	0.05	1.228131	0.1	1.33661	0.2	1.23985	0.4	1.29799
Dieldrin	0.005	1.202129	0.01	1.087311	0.05	1.301366	0.1	1.400106	0.2	1.313557	0.4	1.345612
Endrin	0.005	1.060066	0.01	0.9653342	0.05	1.157222	0.1	1.280818	0.2	1.22825	0.4	1.235658
4,4'-DDD	0.005	0.9040236	0.01	0.8314689	0.05	1.032839	0.1	1.080499	0.2	1.074311	0.4	1.079247
Endosulfan II	0.005	1.017686	0.01	0.9227144	0.05	1.081081	0.1	1.136557	0.2	1.072136	0.4	1.073793
4,4'-DDT	0.005	0.9047716	0.01	0.7289017	0.05	0.8055798	0.1	0.8993092	0.2	0.9331804	0.4	0.9206914
Endrin aldehyde	0.005	0.8498485	0.01	0.7431929	0.05	0.8148794	0.1	0.8533475	0.2	0.8506525	0.4	0.868963
Methoxychlor	0.005	0.3892393	0.01	0.3927667	0.05	0.4353568	0.1	0.4458023	0.2	0.4500967	0.4	0.4262074
Endosulfan sulfate	0.005	0.964504	0.01	0.8949112	0.05	0.9816914	0.1	1.005845	0.2	0.9780087	0.4	0.9477201
Endrin ketone	0.005	1.168037	0.01	0.991483	0.05	1.179308	0.1	1.194208	0.2	1.144152	0.4	1.056815
Toxaphene												
2,4,5,6-TCMX	0.005	1.355252	0.01	1.167011	0.05	1.412961	0.1	1.389214	0.2	1.278879	0.4	1.263606
2,4,5,6-TCMX [2C]	0.005	1.877211	0.01	1.575947	0.05	2.049445	0.1	2.031905	0.2	1.924229	0.4	2.07002
Decachlorobiphenyl	0.005	1.049282	0.01	0.93078	0.05	0.9758791	0.1	0.9439426	0.2	0.9480425	0.4	0.9452685
Decachlorobiphenyl [2C]	0.005	1.935724	0.01	1.529473	0.05	1.825429	0.1	1.774762	0.2	1.799229	0.4	1.943421

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1304047	Instrument:	OSVGCECD2
Matrix:	Water	Calibration Date:	04/16/13 08:54

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC												
gamma-BHC												
beta-BHC												
delta-BHC												
Heptachlor												
Aldrin												
Heptachlor epoxide												
Chlordane-gamma												
Chlordane-alpha												
4,4'-DDE												
Endosulfan I												
Dieldrin												
Endrin												
4,4'-DDD												
Endosulfan II												
4,4'-DDT												
Endrin aldehyde												
Methoxychlor												
Endosulfan sulfate												
Endrin ketone												
Toxaphene												
2,4,5,6-TCMX	0.005	~~4.363612E+09~~	0.01	~~4.160471E+09~~	0.05	~~4.654E+09~~	0.1	~~5.253E+09~~	0.2	~~5.3825E+09~~	0.4	~~5.1755E+09~~
2,4,5,6-TCMX [2C]	0.005	~~4.56974E+09~~	0.01	~~4.75618E+09~~	0.05	~~5.558E+09~~	0.1	~~5.996E+09~~	0.2	~~5.991E+09~~	0.4	~~5.6515E+09~~
Decachlorobiphenyl	0.005	~~3.83152E+09~~	0.01	~~3.468254E+09~~	0.05	~~3.174E+09~~	0.1	~~3.417E+09~~	0.2	~~3.575E+09~~	0.4	~~3.48675E+09~~
Decachlorobiphenyl [2C]	0.005	~~4.959792E+09~~	0.01	~~4.438259E+09~~	0.05	~~3.964E+09~~	0.1	~~4.258E+09~~	0.2	~~4.35E+09~~	0.4	~~4.0925E+09~~

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1304047	Instrument:	OSVGCECD2
Matrix:	Water	Calibration Date:	04/16/13 08:54

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC												
gamma-BHC												
beta-BHC												
delta-BHC												
Heptachlor												
Aldrin												
Heptachlor epoxide												
Chlordane-gamma												
Chlordane-alpha												
4,4'-DDE												
Endosulfan I												
Dieldrin												
Endrin												
4,4'-DDD												
Endosulfan II												
4,4'-DDT												
Endrin aldehyde												
Methoxychlor												
Endosulfan sulfate												
Endrin ketone												
Toxaphene	0.05	2.989634E+07	0.1	2.624025E+07	0.5	2.599778E+07	1	2.880135E+07	2	3.35491E+07	4	3.270095E+07
2,4,5,6-TCMX	0.005	~~4.68527E+09~~	0.01	~~4.615572E+09~~	0.05	~~5.188E+09~~	0.1	~~5.439E+09~~	0.2	~~5.62E+09~~	0.4	~~5.1775E+09~~
2,4,5,6-TCMX [2C]	0.005	~~5.24689E+09~~	0.01	~~5.149966E+09~~	0.05	~~5.79E+09~~	0.1	~~5.916E+09~~	0.2	~~5.9635E+09~~	0.4	~~5.4475E+09~~
Decachlorobiphenyl	0.005	~~4.257742E+09~~	0.01	~~3.635039E+09~~	0.05	~~3.394E+09~~	0.1	~~3.694E+09~~	0.2	~~3.7575E+09~~	0.4	~~3.4825E+09~~
Decachlorobiphenyl [2C]	0.005	~~5.85895E+09~~	0.01	~~4.574269E+09~~	0.05	~~4.276E+09~~	0.1	~~4.584E+09~~	0.2	~~4.578E+09~~	0.4	~~4.11925E+09~~

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1304047	Instrument:	OSVGCECD2
Matrix:	Water	Calibration Date:	04/16/13 08:54

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	1.548965	13.33657	2.361667	3.214227E-02	0.9990468		0.99	
gamma-BHC	1.274631	9.053546	2.578333	2.768938E-02			20	
beta-BHC	0.5992649	5.647097	2.6425	1.439293E-02			20	
delta-BHC	1.370397	13.69788	2.770333	2.882609E-02	0.9992728		0.99	
Heptachlor	1.264395	6.248238	2.925333	2.977733E-02			20	
Aldrin	1.646523	11.25683	3.1555	0.0343172	0.9996302		0.99	
Heptachlor epoxide	1.272369	7.18503	3.651	2.528554E-02			20	
Chlordane-gamma	1.274915	7.167632	3.759333	2.035308E-02			20	
Chlordane-alpha	1.266268	8.30075	3.873333	2.279258E-02			20	
4,4'-DDE	1.65308	15.09231	3.951167	2.148191E-02	0.9996646		0.99	
Endosulfan I	1.224108	7.859727	3.984167	1.453433E-02			20	
Dieldrin	1.275014	8.828688	4.1815	1.758543E-02			20	
Endrin	1.154558	10.44333	4.363	2.351297E-02	0.9997708		0.99	
4,4'-DDD	1.000398	10.67039	4.432667	1.745954E-03	0.9999707		0.99	
Endosulfan II	1.050661	6.962644	4.536667	2.447989E-02			20	
4,4'-DDT	0.8654057	9.324975	4.644667	2.225795E-02			20	
Endrin aldehyde	0.8301473	5.558872	4.848333	1.581971E-02			20	
Methoxychlor	0.4232449	6.22483	5.008333	8.241924E-03			20	
Endosulfan sulfate	0.9621134	3.965342	5.157333	1.369575E-02			20	
Endrin ketone	1.122334	7.171472	5.348	1.482447E-02			20	
Toxaphene	2.953096E+07	10.72678	5.51	1.076793E-02			20	
2,4,5,6-TCMX	1.311154	7.030168	2.003333	3.155446E-02			20	
2,4,5,6-TCMX [2C]	1.921459	9.6525	1.894667	4.237615E-02			20	
Decachlorobiphenyl	0.9655324	4.517224	6.021	2.234742E-02			20	
Decachlorobiphenyl [2C]	1.80134	8.362181	6.089167	1.112497E-02			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1304047

Laboratory ID: AA23829-SCV1

Sequence: AA23829

Standard ID: A3D0276

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Chlordane-gamma	0.200	0.19	-3.4	20.00
Endosulfan sulfate	0.200	0.17	-15.4	20.00
Decachlorobiphenyl	0.200	0.18	-9.2	20.00
Decachlorobiphenyl [2C]	0.200	0.20	-1.2	20.00
Aldrin	0.200	0.18	-8.5	20.00
alpha-BHC	0.200	0.19	-6.6	20.00
beta-BHC	0.200	0.18	-10.7	20.00
delta-BHC	0.200	0.19	-7.0	20.00
Endosulfan II	0.200	0.19	-7.4	20.00
4,4'-DDT	0.200	0.19	-6.0	20.00
Heptachlor epoxide	0.200	0.18	-8.5	20.00
Endrin ketone	0.200	0.18	-11.2	20.00
Endosulfan I	0.200	0.19	-3.1	20.00
gamma-BHC	0.200	0.19	-5.2	20.00
Dieldrin	0.200	0.19	-3.0	20.00
Endrin	0.200	0.17	-15.8	20.00
Methoxychlor	0.200	0.18	-8.2	20.00
4,4'-DDD	0.200	0.19	-7.0	20.00
4,4'-DDE	0.200	0.17	-13.4	20.00
Endrin aldehyde	0.200	0.20	-0.9	20.00
Heptachlor	0.200	0.18	-12.0	20.00
2,4,5,6-TCMX	0.200	0.17	-15.0	20.00
2,4,5,6-TCMX [2C]	0.200	0.19	-7.0	20.00
Chlordane-alpha	0.200	0.20	-0.8	20.00

* Values outside of QC limits

ANALYSIS SEQUENCE

AA24704

Instrument: OSVGCECD2

Calibration ID: 1304047

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24704-PEM1	QC		1		A3F0149	A3F0147	
AA24704-CCV1	QC		2		A3E0007	A3F0147	
AA24704-CCV2	QC		3		A3E0379		
AA24704-CCV3	QC		4		A3B0216		
3F20027-BLK1	QC		5			A3F0147	
3F20027-BS1	QC		6			A3F0147	
3F20027-BSD1	QC		7			A3F0147	
3F24028-BLK1	QC		8			A3F0147	
3F24028-BS1	QC		9			A3F0147	
3F24028-BSD1	QC		10			A3F0147	
A303479-02	8081B DOD	A	11			A3F0147	CH2M Hill, Inc. (CH025)
A302797-02RE1	8081B DOD	G	12			A3F0147	CH2M Hill, Inc. (CH025)
A302797-05RE1	8081B DOD	G	13			A3F0147	CH2M Hill, Inc. (CH025)
A303334-08RE1	8081B DOD	A	14			A3F0147	CH2M Hill, Inc. (CH025)
A303499-06	8081B DOD	E	15			A3F0147	CH2M Hill, Inc. (CH025)
A303499-07	8081B DOD	E	16			A3F0147	CH2M Hill, Inc. (CH025)
A303499-09	8081B DOD	F	17			A3F0147	CH2M Hill, Inc. (CH025)
A303499-10	8081B DOD	F	18			A3F0147	CH2M Hill, Inc. (CH025)
A303499-11	8081B DOD	E	19			A3F0147	CH2M Hill, Inc. (CH025)
A303499-12	8081B DOD	E	20			A3F0147	CH2M Hill, Inc. (CH025)
A303499-14	8081B DOD	E	21			A3F0147	CH2M Hill, Inc. (CH025)
A303499-15	8081B DOD	E	22			A3F0147	CH2M Hill, Inc. (CH025)
A303499-17	8081B DOD	E	23			A3F0147	CH2M Hill, Inc. (CH025)
A303499-18	8081B DOD	E	24			A3F0147	CH2M Hill, Inc. (CH025)
A303499-19	8081B DOD	E	25			A3F0147	CH2M Hill, Inc. (CH025)
A303499-20	8081B DOD	E	26			A3F0147	CH2M Hill, Inc. (CH025)
A303499-21	8081B DOD	F	27			A3F0147	CH2M Hill, Inc. (CH025)
A303499-22	8081B DOD	F	28			A3F0147	CH2M Hill, Inc. (CH025)
A303479-03	8081B DOD	A	29			A3F0147	CH2M Hill, Inc. (CH025)
A303479-06	8081B DOD	A	30			A3F0147	CH2M Hill, Inc. (CH025)
A303479-07	8081B DOD	A	31			A3F0147	CH2M Hill, Inc. (CH025)
A303479-08	8081B DOD	A	32			A3F0147	CH2M Hill, Inc. (CH025)

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

PREPARATION BENCH SHEET

Printed: 6/24/2013 1:29:56PM

Analysis
8081B DOD [EPA 8081B]

3F24028
ENCO Orlando

Prepared using: EPA 3550C

Surrogate Solution
__ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0382 Pesticides Working Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F24028-BLK1		Blank		QC	—	—	30.0	10			1000		
3F24028-BS1		LCS		QC	—	—	30.0	10	A3E0382	1000	1000		
3F24028-BSD1		LCS Dup		QC	—	—	30.0	10	A3E0382	1000	1000		
A302797-02RE1	1 D	TR-5TH-SS01-0613 (9) E[C10]	01-Jul-13	8081B DOD	—	—	30.1	10			1000		LCS biased high, analyte detect
A302797-05RE1	2 D	TR-5TH-SS04-0613 (9) E[C10]	01-Jul-13	8081B DOD	—	—	30.5	10			1000		TCMX fail. Added 6/24/2013 by
A303499-06	3 D	TR-2ND-SB07-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.0	10			1000		
A303499-07	4 D	TR-2ND-SB07-04-06-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.0	10			1000		
A303499-09	5 D	TR-2ND-SB06-0.5-01-0613 F[C11]	11-Jul-13	8081B DOD	—	—	30.4	10			1000		
A303499-10	6 D	TR-2ND-SB06-05-07-0613 F[C11]	11-Jul-13	8081B DOD	—	—	30.4	10			1000		
A303499-11	7 D	TR-2ND-SB06D-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.4	10			1000		
A303499-12	8 D	TR-2ND-SB06D-05-07-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.1	10			1000		
A303499-14	9 D	TR-2ND-SB04-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.1	10			1000		
A303499-15	10 D	TR-2ND-SB04-04-06-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.4	10			1000		
A303499-17	11 D	TR-2ND-SB05-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.2	10			1000		
A303499-18	12 D	TR-2ND-SB05-03-05-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.2	10			1000		
A303499-19	13 D	TR-2ND-SB03-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.5	10			1000		
A303499-20	14 D	TR-2ND-SB03-04-06-0613 E[C11]	11-Jul-13	8081B DOD	—	—	30.1	10			1000		
A303499-21	15 D	TR-2ND-SB02-0.5-1-0613 F[C11]	11-Jul-13	8081B DOD	—	—	30.1	10			1000		
A303499-22	16 D	TR-2ND-SB02-06-08-0613 F[C11]	11-Jul-13	8081B DOD	—	—	30.2	10			1000		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

PREPARATION BENCH SHEET

Printed: 6/24/2013 1:29:56PM

3F24028

ENCO Orlando

Prepared using: EPA 3550C

Surrogate Solution
___ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0382 Pesticides Working Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

8081 soil

Start Date/Time 6/24/13 13:45

StopDate/Time 6/24/13 17:30

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3D0357	Solvent Hexane	130939
A3F0037	Solvent Dichloromethane	Solvent Lot # DI492

Equipment Used

Sonicator OSON-2,-3 Tuned per manufacturer instructions? [✓] Yes [ ] No [ ] NA

Turbovap OTVAP-1 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP-2 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP-3 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Balance OEXTBAL7 Daily calibration complete? [✓] Yes [ ] No [ ] NA

Other

MAC 6/24/13
Samples Prepared By Date

Samples Prepared By Date

Samples Prepared By Date

PREPARATION BENCH SHEET

Printed: 6/25/2013 3:07:34AM

Analysis
8081B DOD [EPA 8081B]

3F24028

ENCO Orlando

Prepared using: EPA 3550C

Surrogate Solution
__ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0382 Pesticides Working Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location		Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F24028-BLK1		Blank			QC							1000		
3F24028-BS1		LCS			QC					A3E0382	1000	1000		
3F24028-BSD1		LCS Dup			QC					A3E0382	1000	1000		
A302797-02RE1	D	TR-5TH-SS01-0613	G[C10]	01-Jul-13	8081B DOD							1000		LCS biased high, analyte detect
A302797-05RE1	D	TR-5TH-SS04-0613	G[C10]	01-Jul-13	8081B DOD							1000		TCMX fail. Added 6/24/2013 by
A303334-08RE1 /	D	TR-2ND-SS04-0613	A[C10]	02-Jul-13	8081B DOD	-	-	30	10			1000		TCMX biased low. Added 6/24/2
A303499-06	D	TR-2ND-SB07-0.5-01-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-07	D	TR-2ND-SB07-04-06-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-09	D	TR-2ND-SB06-0.5-01-0613	F[C11]	11-Jul-13	8081B DOD							1000		
A303499-10	D	TR-2ND-SB06-05-07-0613	F[C11]	11-Jul-13	8081B DOD							1000		
A303499-11	D	TR-2ND-SB06D-0.5-01-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-12	D	TR-2ND-SB06D-05-07-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-14	D	TR-2ND-SB04-0.5-01-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-15	D	TR-2ND-SB04-04-06-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-17	D	TR-2ND-SB05-0.5-01-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-18	D	TR-2ND-SB05-03-05-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-19	D	TR-2ND-SB03-0.5-01-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-20	D	TR-2ND-SB03-04-06-0613	E[C11]	11-Jul-13	8081B DOD							1000		
A303499-21	D	TR-2ND-SB02-0.5-1-0613	F[C11]	11-Jul-13	8081B DOD							1000		
A303499-22	D	TR-2ND-SB02-06-08-0613	F[C11]	11-Jul-13	8081B DOD							1000		

PREPARATION BENCH SHEET

Printed: 6/25/2013 3:07:34AM

3F24028

ENCO Orlando

Prepared using: EPA 3550C

Surrogate Solution
__ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0382 Pesticides Working Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

8081 soil

Start Date/Time 6-25-13 0:30

StopDate/Time 6-25-13 8:00

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3D0357	Solvent Hexane	130939
A3F0037	Solvent Dichloromethane	Solvent Lot # DI492

Equipment Used

Sonicator ASON 2 — Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA

Turbovap OT-BP 1 — Temperature: 40 C — N2 pressure (initial): 3psi (final): 1-2psi

Turbovap ____ — Temperature: ____ — N2 pressure (initial): ____ (final): ____

Turbovap ____ — Temperature: ____ — N2 pressure (initial): ____ (final): ____

Balance DEXTOAL 7 — Daily calibration complete? [X] Yes [ ] No [ ] NA

Other

TGM 6-25-13
Samples Prepared By Date

Samples Prepared By Date

Samples Prepared By Date

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 9:44
Operator : RC
Sample : AA24704-PEM1
Misc : AA24705-PEM1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 26 10:12:03 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.287	5.181	234.1E6	131.2E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	0.000	0.000	0	0	N.D. d	N.D. d
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	3.929	3.903	2340671	1905416	N.D.	0.0006
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	4.341	4.255	429.9E6	322.6E6	0.1491	0.1331
17)	4,4'-DDD	4.412	4.376	28937858	25494874	0.0129	0.0133
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	4.624	4.609	533.6E6	377.3E6	0.2634	0.2384
20)	ENDRIN AL...	4.819	4.673	2180487	1386528	0.0011	0.0008 #
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	5.325	5.246	5909895	3394942	0.0022	0.0016 #
25)	DECACHLOR...	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

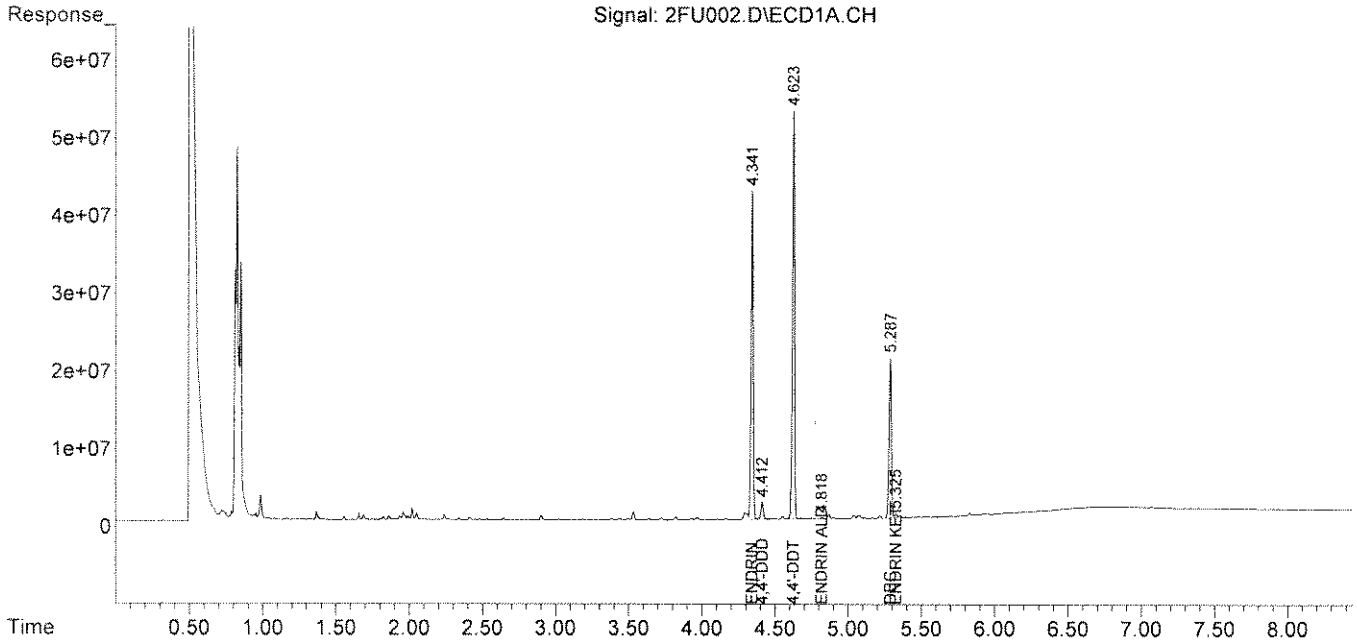
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

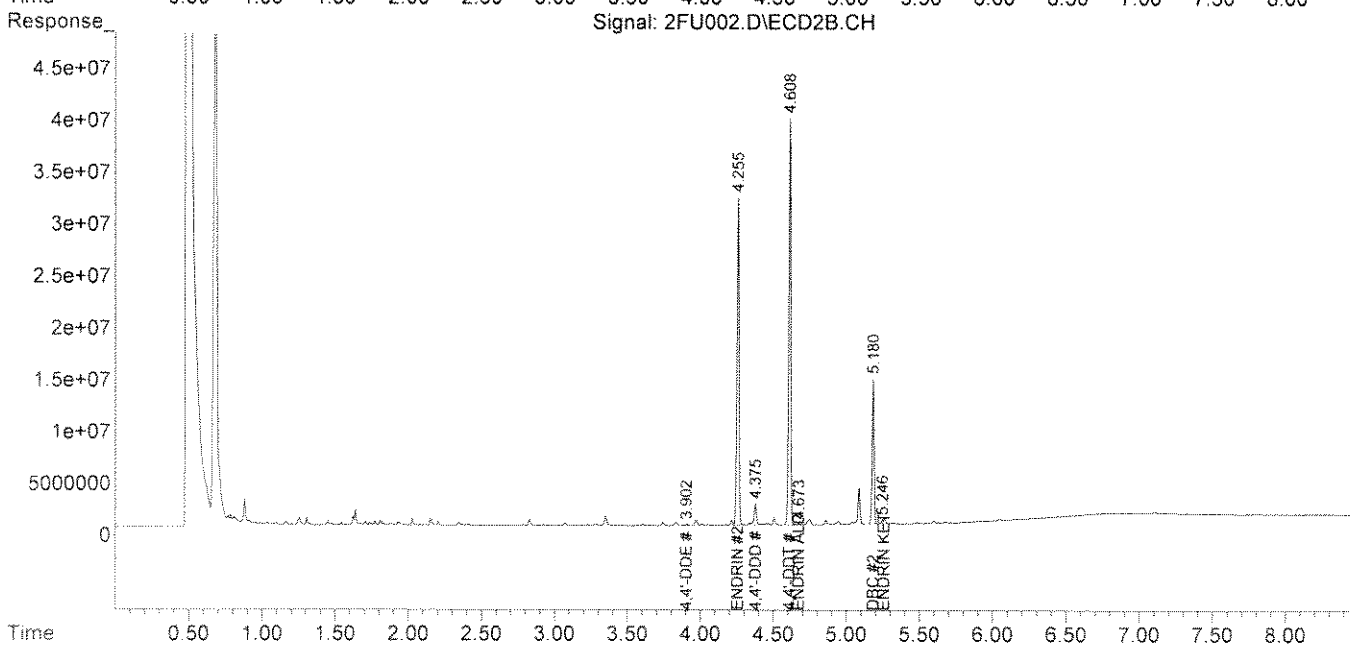
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 9:44
Operator : RC
Sample : AA24704-PEM1
Misc : AA24705-PEM1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 26 10:12:03 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 10:26
Operator : RC
Sample : AA24704-CCV1
Misc : AA24705-CCV1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 10:36:32 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.184	504.3E6	277.2E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.998	1.878	632.6E6	501.3E6	0.0957	0.0941
3)	ALPHA-BHC	2.352	2.243	894.9E6	675.5E6	0.1062	0.1115
4)	GAMMA-BHC...	2.566	2.473	651.2E6	496.6E6	0.1013	0.0992
5)	BETA-BHC	2.630	2.538	293.0E6	237.9E6	0.0970	0.1009
6)	DELTA-BHC	2.757	2.738	812.5E6	629.5E6	0.1076	0.1136
7)	HEPTACHLOR	2.911	2.769	573.4E6	408.6E6	0.0899	0.0871
8)	ALDRIN	3.140	3.002	878.5E6	632.7E6	0.1000	0.0995
9)	ISODRIN	3.405	3.307	655.6E6	511.1E6	0.1027	0.0997
10)	HEPTACHLO...	3.632	3.458	637.6E6	514.1E6	0.0994	0.1008
11)	GAMMA CHL...	3.741	3.616	653.6E6	495.0E6	0.1017	0.1002
12)	ALPHA CHL...	3.854	3.740	640.1E6	519.3E6	0.1002	0.0979
13)	4,4'-DDE	3.933	3.907	913.6E6	705.9E6	0.1017	0.1040
14)	ENDOSULFAN I	3.965	3.783	616.3E6	474.2E6	0.0998	0.0993
15)	DIELDRIN	4.162	4.016	677.8E6	524.4E6	0.1054	0.1031
16)	ENDRIN	4.344	4.258	612.9E6	452.7E6	0.0990	0.0906
17)	4,4'-DDD	4.414	4.379	523.0E6	419.4E6	0.0972	0.1038
18)	ENDOSULFAN 2	4.517	4.431	513.4E6	407.0E6	0.0969	0.0931
19)	4,4'-DDT	4.626	4.612	417.7E6	282.1E6	0.0957	0.0844
20)	ENDRIN AL...	4.828	4.687	396.6E6	328.6E6	0.0947	0.0929
21)	METHOXYCHLOR	4.989	5.118	196.4E6	137.6E6	0.0920	0.0809
22)	MIREX	5.063	5.203	363.4E6	276.1E6	0.0857	0.0815
23)	ENDOSULFA...	5.136	4.887	461.8E6	375.3E6	0.0952	0.0900
24)	ENDRIN KE...	5.327	5.249	500.7E6	398.9E6	0.0885	0.0863
25)	DECACHLOR...	5.999	6.051	444.2E6	439.2E6	0.0912	0.0880

SemiQuant Compounds - Not Calibrated on this Instrument

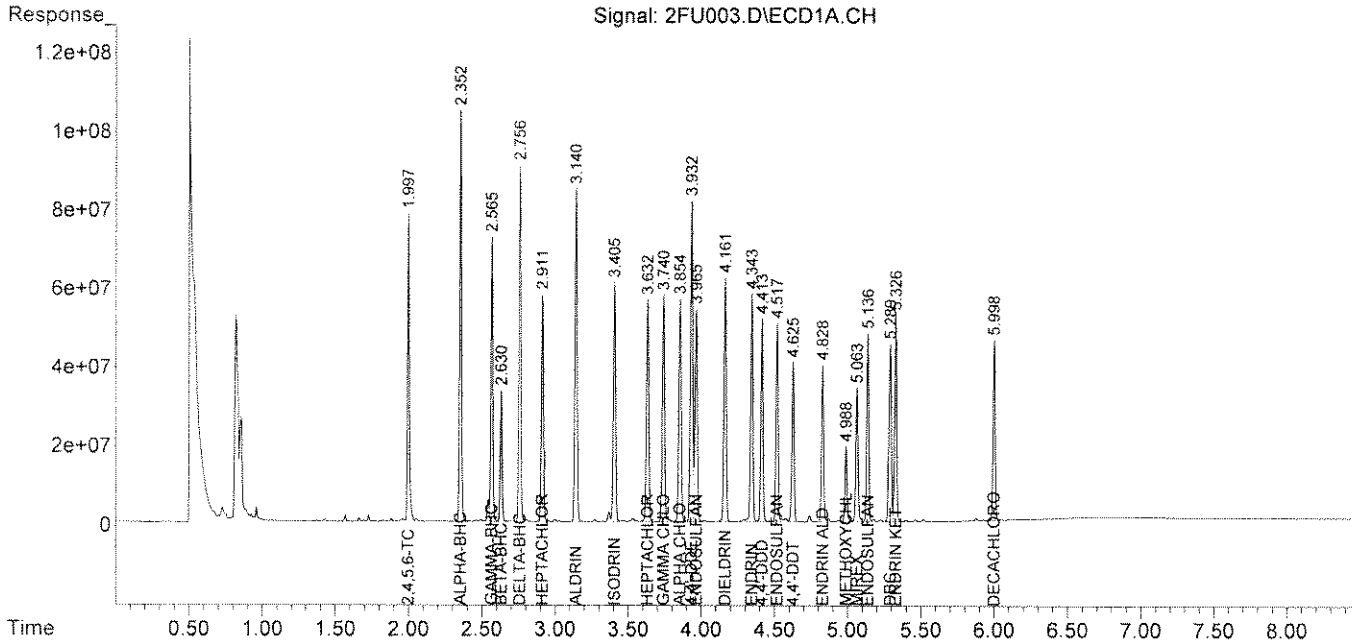
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

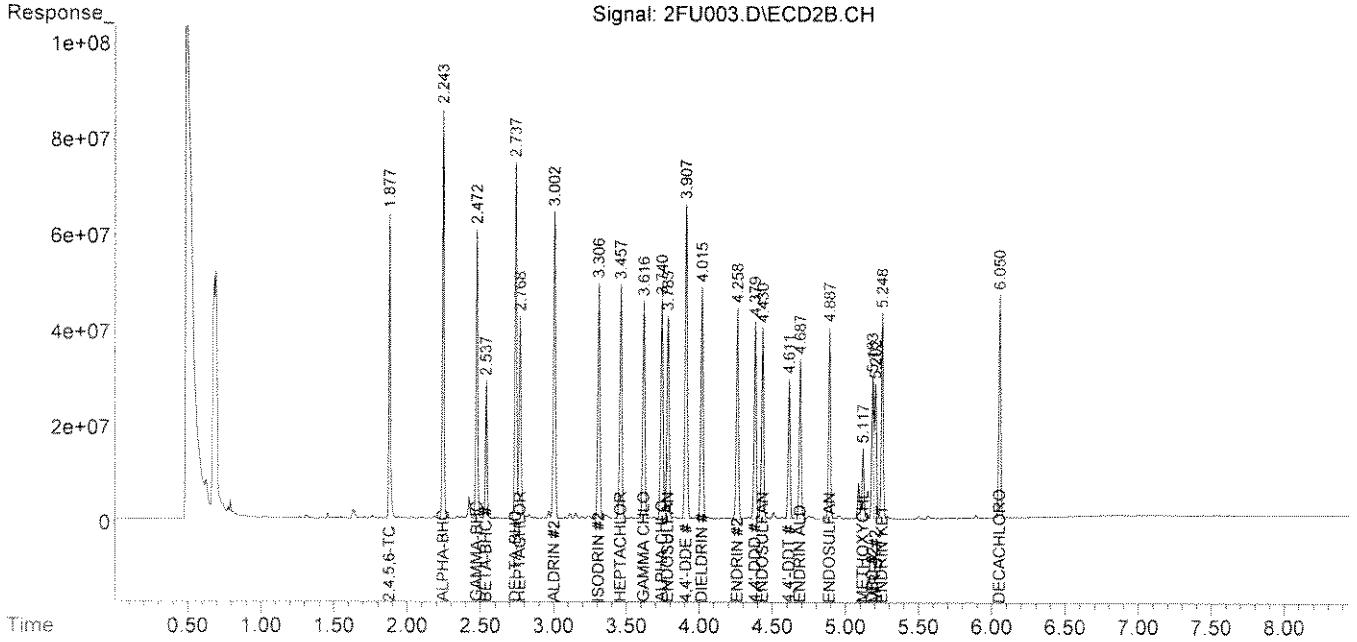
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 10:26
Operator : RC
Sample : AA24704-CCV1
Misc : AA24705-CCV1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 10:36:32 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:05
Operator : RC
Sample : 3F20027-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:15:03 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.289	5.184	359.9E6	202.8E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.996	1.877	513.2E6	424.1E6	0.1087	0.1088
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.999	6.051	705.0E6	691.1E6	0.2029	0.1892

SemiQuant Compounds - Not Calibrated on this Instrument

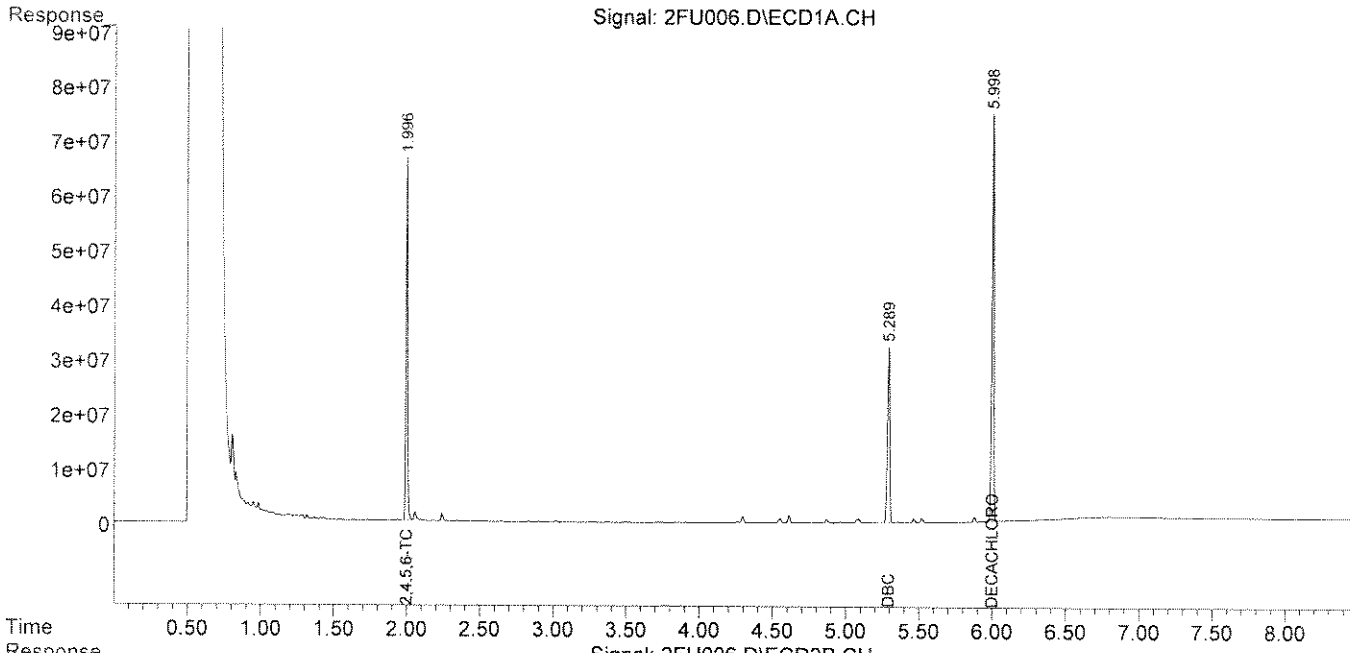
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

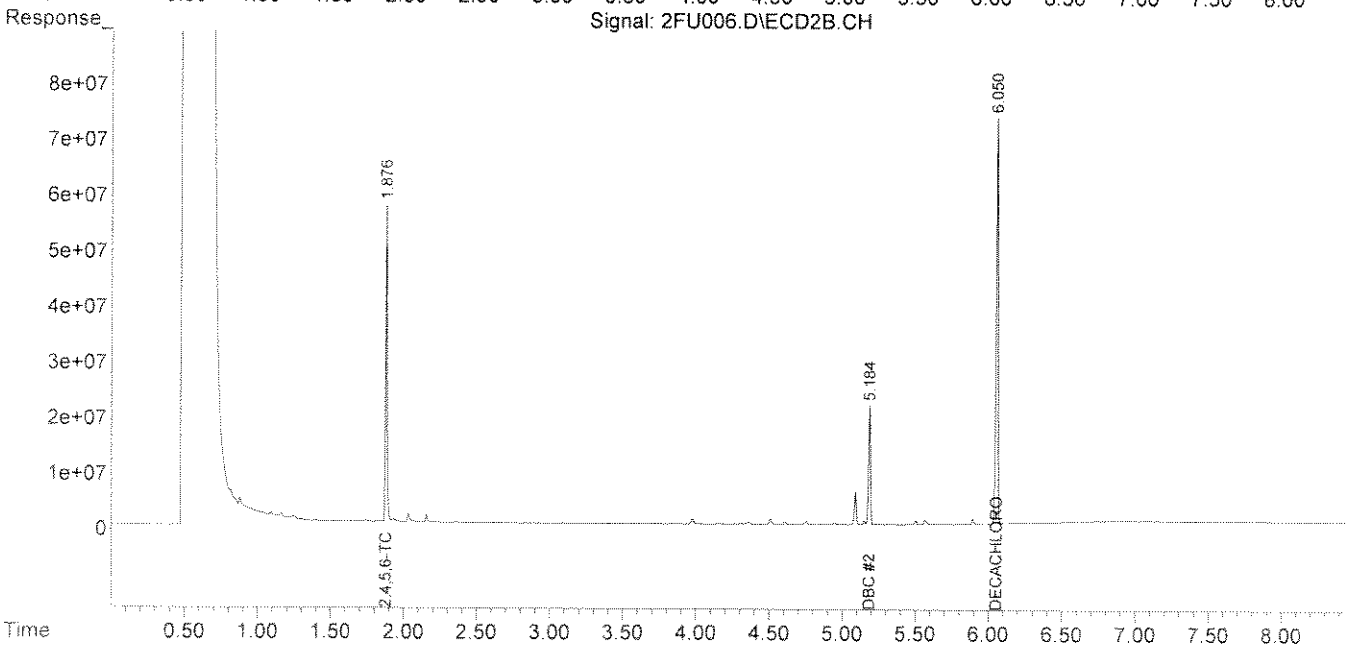
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:05
Operator : RC
Sample : 3F20027-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:15:03 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:30
Operator : RC
Sample : 3F20027-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:39:20 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.292	5.184	584.8E6	323.0E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	2.001	1.878	643.9E6	523.2E6	0.0840	0.0843
3)	ALPHA-BHC	2.355	2.244	952.1E6	730.3E6	0.0976	0.1035
4)	GAMMA-BHC...	2.569	2.474	712.3E6	546.2E6	0.0956	0.0936
5)	BETA-BHC	2.634	2.539	320.1E6	259.1E6	0.0913	0.0944
6)	DELTA-BHC	2.761	2.739	882.1E6	693.5E6	0.1010	0.1074
7)	HEPTACHLOR	2.915	2.770	644.8E6	461.0E6	0.0872	0.0844
8)	ALDRIN	3.144	3.003	938.3E6	682.4E6	0.0921	0.0921
9)	ISODRIN	3.409	3.309	709.6E6	558.4E6	0.0958	0.0935
10)	HEPTACHLO...	3.636	3.459	689.9E6	568.4E6	0.0927	0.0957
11)	GAMMA CHL...	3.744	3.617	728.7E6	556.3E6	0.0977	0.0966
12)	ALPHA CHL...	3.858	3.742	712.0E6	582.7E6	0.0961	0.0943
13)	4,4'-DDE	3.936	3.908	949.3E6	744.0E6	0.0911	0.0941
14)	ENDOSULFAN I	3.969	3.784	679.5E6	528.6E6	0.0949	0.0950
15)	DIELDRIN	4.166	4.017	755.8E6	588.8E6	0.1014	0.0994
16)	ENDRIN	4.347	4.260	692.7E6	514.9E6	0.0966	0.0886
17)	4,4'-DDD	4.417	4.380	593.5E6	476.5E6	0.0952	0.1012
18)	ENDOSULFAN 2	4.520	4.431	577.5E6	450.3E6	0.0940	0.0885
19)	4,4'-DDT	4.629	4.612	490.7E6	334.5E6	0.0970	0.0859
20)	ENDRIN AL...	4.831	4.688	444.1E6	368.3E6	0.0915	0.0894
21)	METHOXYCHLOR	4.992	5.118	223.3E6	160.2E6	0.0902	0.0808
22)	MIREX	5.065	5.204	418.9E6	317.4E6	0.0852	0.0805
23)	ENDOSULFA...	5.139	4.888	520.8E6	425.3E6	0.0926	0.0875
24)	ENDRIN KE...	5.328	5.249	570.9E6	456.1E6	0.0870	0.0847
25)	DECACHLOR...	6.000	6.051	506.3E6	501.9E6	0.0897	0.0863

SemiQuant Compounds - Not Calibrated on this Instrument

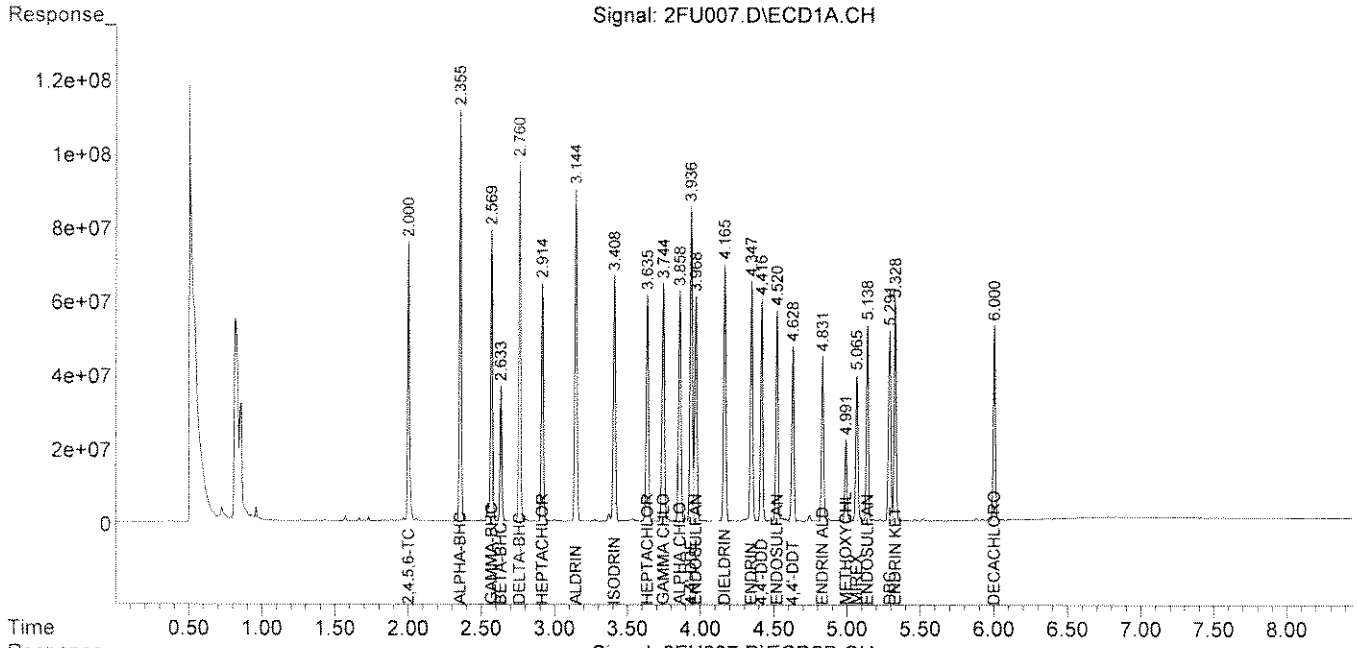
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

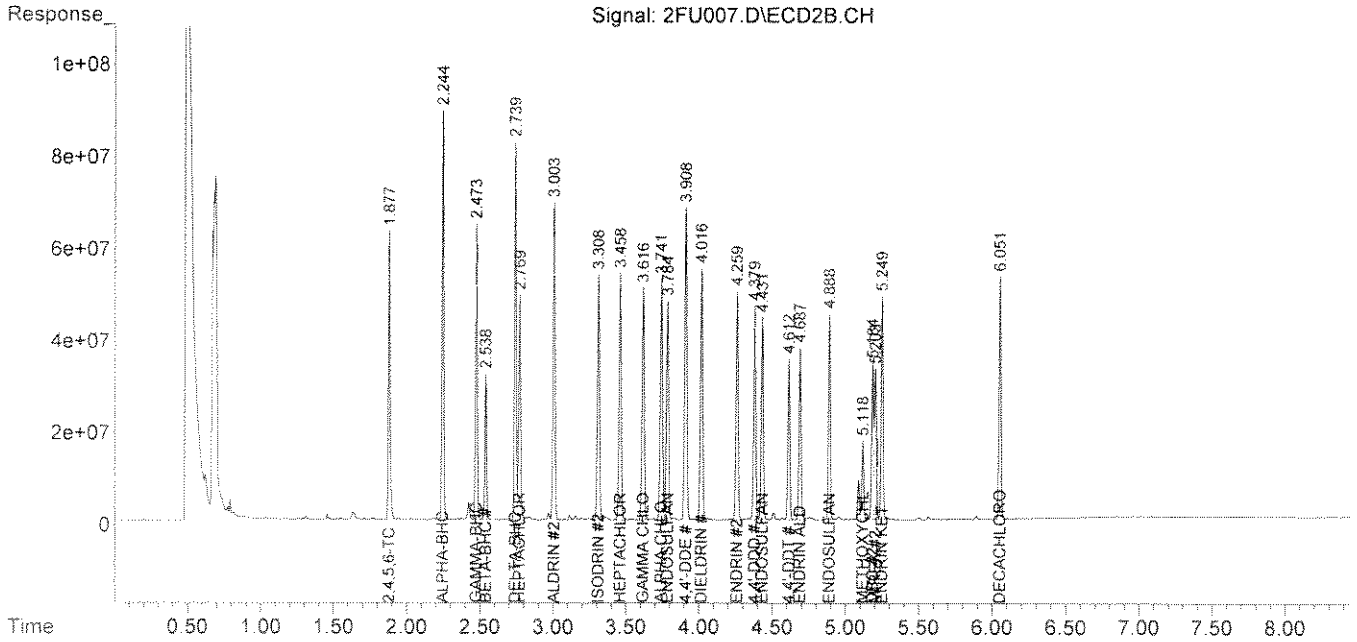
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:30
Operator : RC
Sample : 3F20027-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:39:20 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:42
Operator : RC
Sample : 3F20027-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:51:46 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.185	521.4E6	291.1E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.998	1.879	668.6E6	532.5E6	0.0978	0.0952
3)	ALPHA-BHC	2.353	2.245	961.0E6	726.5E6	0.1102	0.1142
4)	GAMMA-BHC...	2.567	2.474	677.5E6	517.7E6	0.1019	0.0984
5)	BETA-BHC	2.631	2.539	308.2E6	250.7E6	0.0987	0.1013
6)	DELTA-BHC	2.758	2.739	874.9E6	687.5E6	0.1119	0.1182
7)	HEPTACHLOR	2.912	2.770	593.7E6	424.4E6	0.0900	0.0861
8)	ALDRIN	3.141	3.004	954.3E6	692.0E6	0.1050	0.1036
9)	ISODRIN	3.406	3.309	713.4E6	564.5E6	0.1081	0.1048
10)	HEPTACHLO...	3.633	3.459	665.0E6	553.6E6	0.1002	0.1034
11)	GAMMA CHL...	3.742	3.617	693.4E6	536.0E6	0.1043	0.1033
12)	ALPHA CHL...	3.856	3.742	690.7E6	572.1E6	0.1046	0.1027
13)	4,4'-DDE	3.933	3.909	964.9E6	749.2E6	0.1039	0.1051
14)	ENDOSULFAN I	3.966	3.785	653.0E6	509.3E6	0.1023	0.1015
15)	DIELDRIN	4.163	4.018	732.6E6	572.2E6	0.1102	0.1072
16)	ENDRIN	4.345	4.260	656.4E6	488.6E6	0.1026	0.0929
17)	4,4'-DDD	4.415	4.381	556.1E6	452.3E6	0.0999	0.1066
18)	ENDOSULFAN 2	4.519	4.432	525.5E6	411.4E6	0.0959	0.0897
19)	4,4'-DDT	4.627	4.613	427.6E6	292.0E6	0.0948	0.0832
20)	ENDRIN AL...	4.829	4.689	407.3E6	340.1E6	0.0941	0.0916
21)	METHOXYCHLOR	4.990	5.118	197.0E6	138.8E6	0.0893	0.0777
22)	MIREX	5.064	5.204	372.5E6	278.2E6	0.0849	0.0782
23)	ENDOSULFA...	5.137	4.889	459.9E6	378.5E6	0.0917	0.0864
24)	ENDRIN KE...	5.327	5.250	496.3E6	399.9E6	0.0848	0.0824
25)	DECACHLOR...	5.999	6.051	503.7E6	492.4E6	0.1001	0.0939

SemiQuant Compounds - Not Calibrated on this Instrument

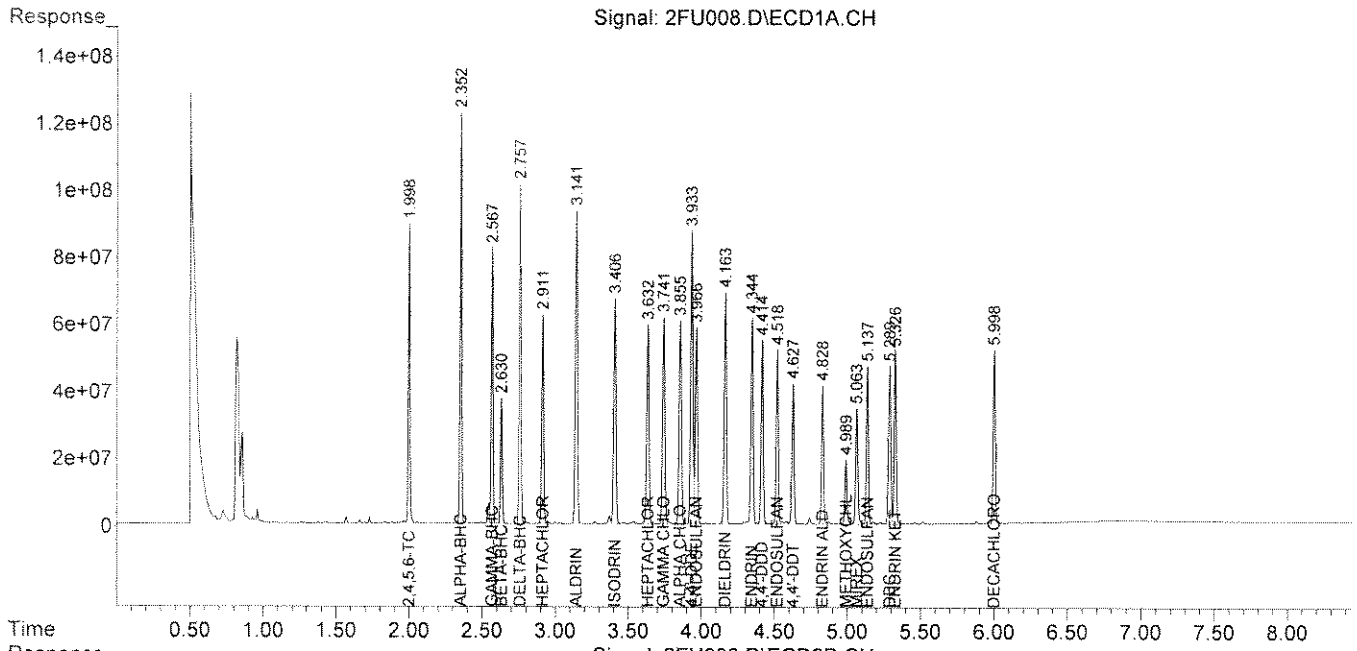
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

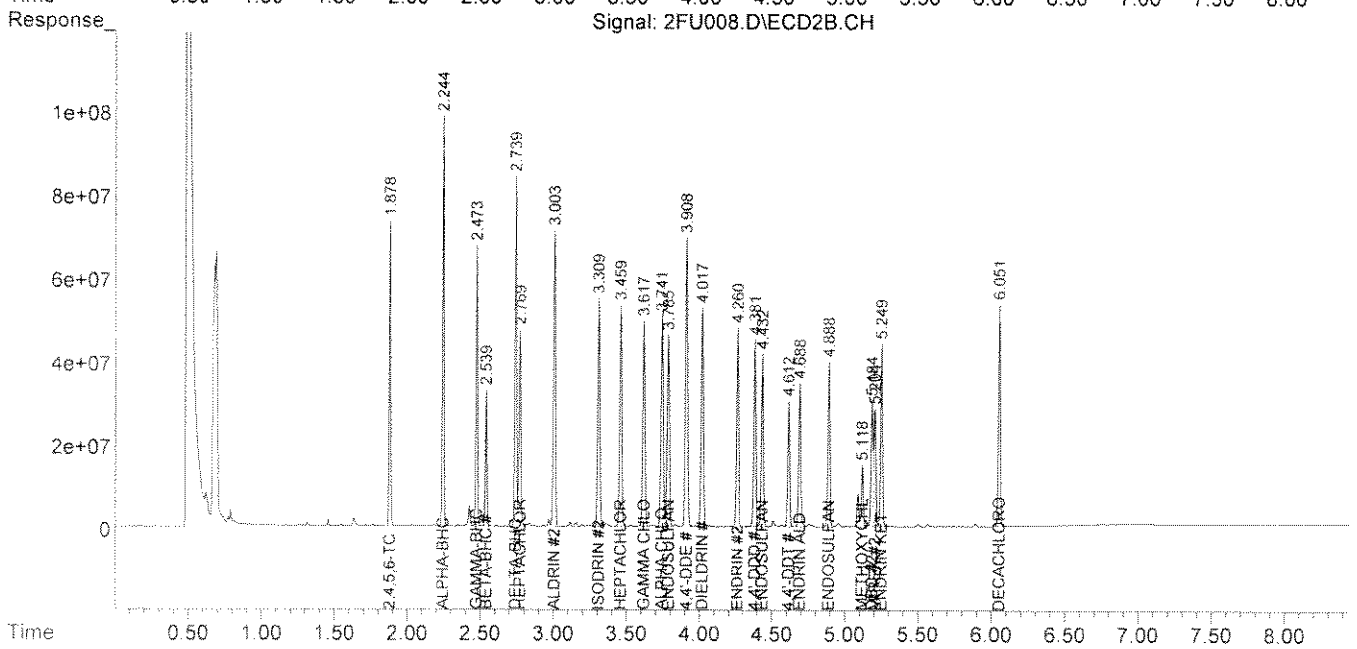
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:42
Operator : RC
Sample : 3F20027-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:51:46 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:54
Operator : RC
Sample : 3F24028-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 12:04:00 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.289	5.184	347.8E6	190.5E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	613.1E6	512.5E6	0.1344	0.1400
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.998	6.051	482.9E6	480.1E6	0.1438	0.1399

SemiQuant Compounds - Not Calibrated on this Instrument

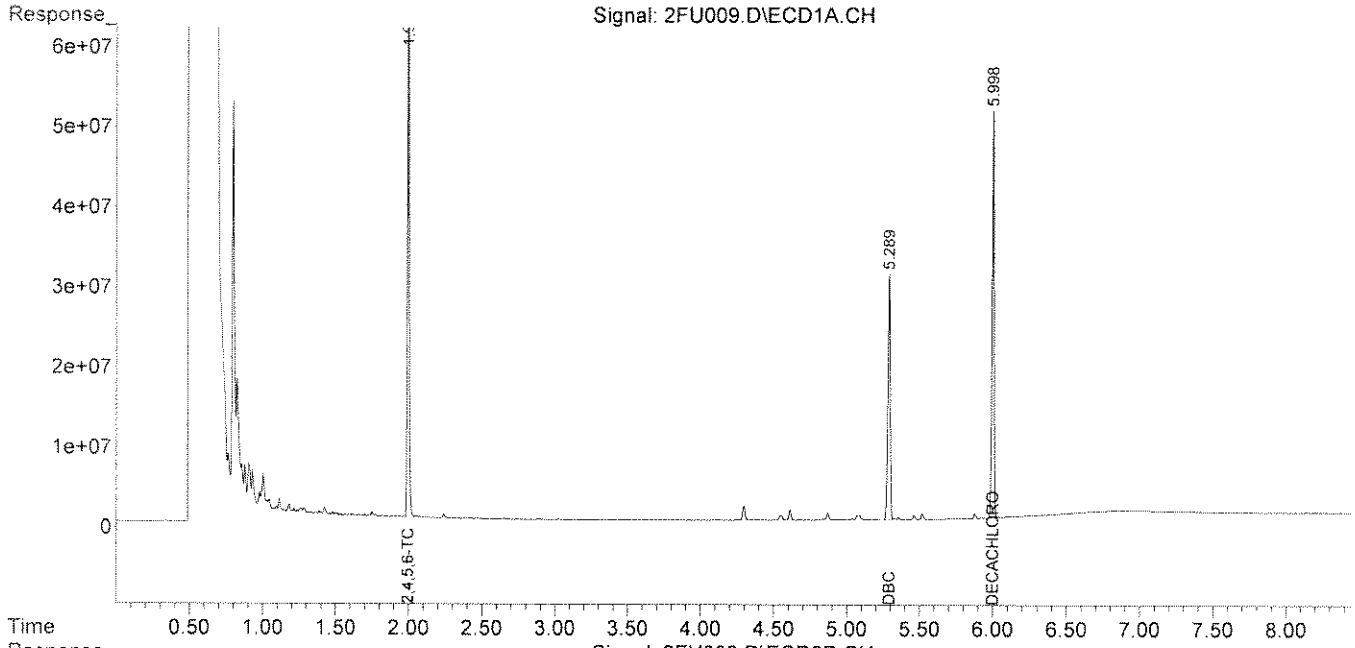
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

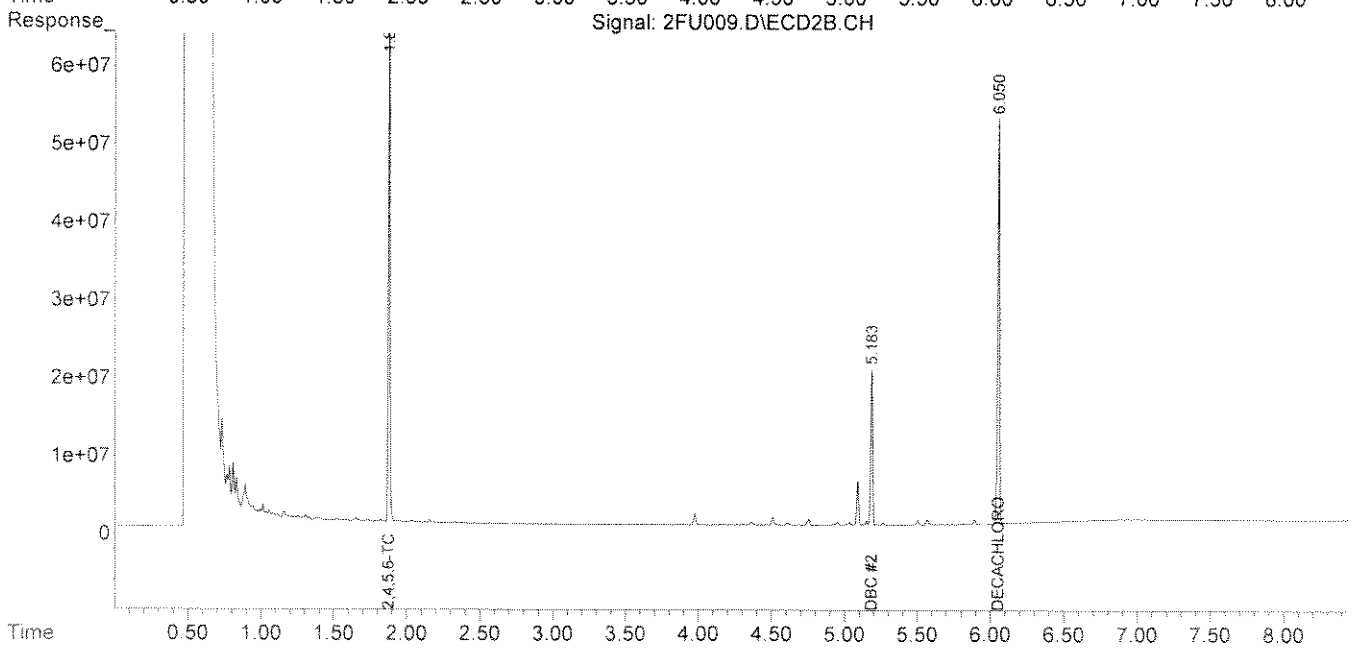
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 11:54
Operator : RC
Sample : 3F24028-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 12:04:00 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 12:06
Operator : RC
Sample : 3F24028-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 12:15:29 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.185	428.1E6	238.8E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	2.000	1.880	611.6E6	501.4E6	0.1090	0.1093
3)	ALPHA-BHC	2.354	2.246	843.9E6	652.1E6	0.1177	0.1249
4)	GAMMA-BHC...	2.568	2.475	565.1E6	437.8E6	0.1036	0.1015
5)	BETA-BHC	2.632	2.540	258.6E6	209.4E6	0.1008	0.1032
6)	DELTA-BHC	2.759	2.741	735.0E6	582.5E6	0.1145	0.1220
7)	HEPTACHLOR	2.913	2.771	499.9E6	372.3E6	0.0924	0.0921
8)	ALDRIN	3.142	3.005	872.1E6	635.8E6	0.1168	0.1161
9)	ISODRIN	3.407	3.310	644.4E6	511.2E6	0.1189	0.1157
10)	HEPTACHLO...	3.634	3.460	582.2E6	486.5E6	0.1069	0.1107
11)	GAMMA CHL...	3.743	3.619	590.1E6	454.6E6	0.1081	0.1068
12)	ALPHA CHL...	3.856	3.743	590.1E6	491.3E6	0.1089	0.1075
13)	4,4'-DDE	3.934	3.909	878.6E6	688.0E6	0.1153	0.1177
14)	ENDOSULFAN I	3.967	3.786	572.4E6	443.5E6	0.1092	0.1078
15)	DIELDRIN	4.164	4.018	630.0E6	494.4E6	0.1154	0.1129
16)	ENDRIN	4.346	4.261	553.4E6	416.1E6	0.1053	0.0962
17)	4,4'-DDD	4.415	4.381	450.6E6	371.5E6	0.0987	0.1067
18)	ENDOSULFAN 2	4.519	4.433	427.1E6	342.5E6	0.0950	0.0910
19)	4,4'-DDT	4.627	4.613	317.2E6	219.5E6	0.0856	0.0762
20)	ENDRIN AL...	4.830	4.689	335.2E6	283.4E6	0.0943	0.0930
21)	METHOXYCHLOR	4.990	5.119	146.5E6	105.1E6	0.0808	0.0717
22)	MIREX	5.064	5.205	300.9E6	226.1E6	0.0835	0.0775
23)	ENDOSULFA...	5.138	4.890	368.9E6	306.3E6	0.0896	0.0852
24)	ENDRIN KE...	5.327	5.250	401.1E6	323.9E6	0.0835	0.0814
25)	DECACHLOR...	6.000	6.052	440.8E6	433.1E6	0.1066	0.1007

SemiQuant Compounds - Not Calibrated on this Instrument

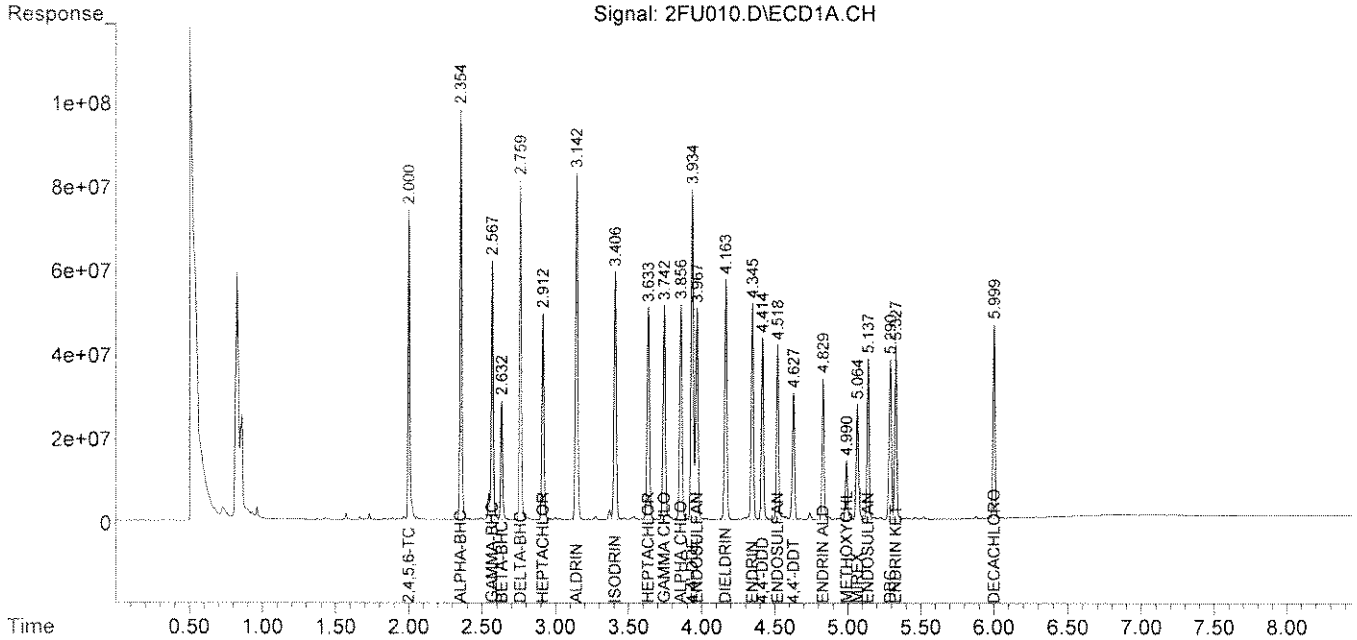
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

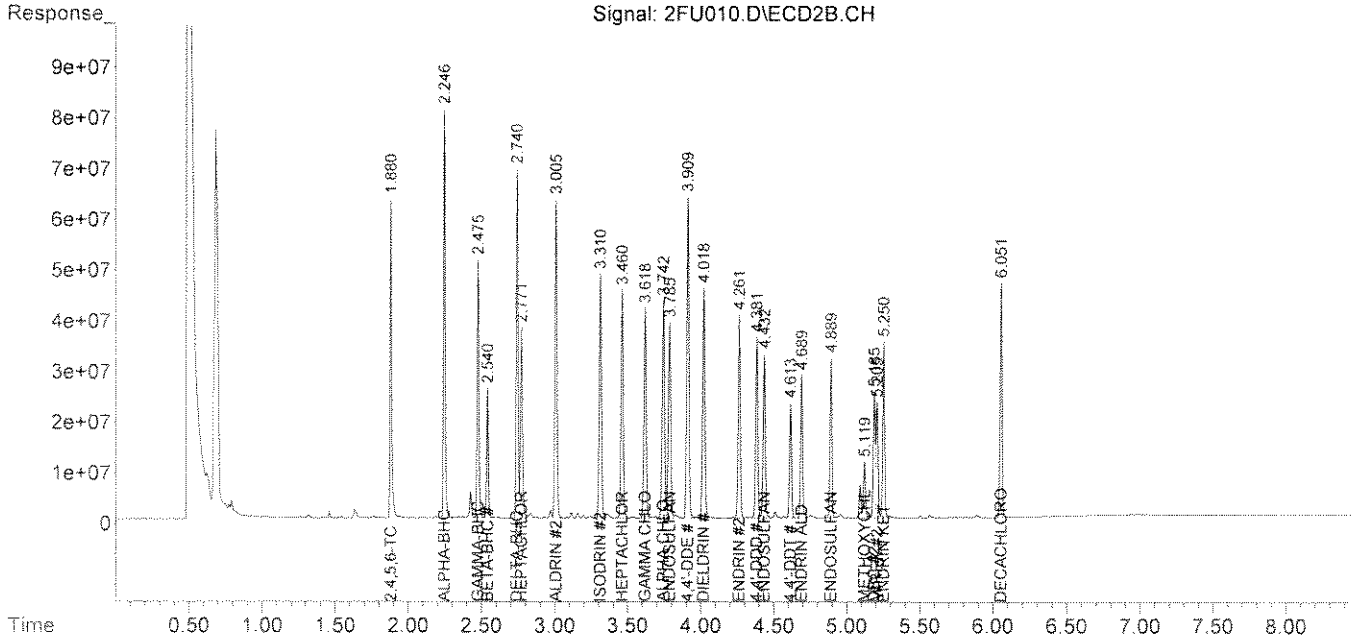
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 12:06
Operator : RC
Sample : 3F24028-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 12:15:29 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 12:18
Operator : RC
Sample : 3F24028-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 12:28:55 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.185	524.6E6	293.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	2.000	1.880	667.3E6	537.1E6	0.0970	0.0953
3)	ALPHA-BHC	2.354	2.246	990.2E6	752.4E6	0.1128	0.1174
4)	GAMMA-BHC...	2.568	2.475	692.7E6	528.7E6	0.1036	0.0997
5)	BETA-BHC	2.632	2.540	313.4E6	253.7E6	0.0997	0.1017
6)	DELTA-BHC	2.759	2.740	888.3E6	698.9E6	0.1129	0.1192
7)	HEPTACHLOR	2.913	2.771	592.8E6	428.0E6	0.0894	0.0862
8)	ALDRIN	3.142	3.005	972.9E6	704.6E6	0.1064	0.1047
9)	ISODRIN	3.407	3.310	727.7E6	574.5E6	0.1096	0.1059
10)	HEPTACHLO...	3.634	3.460	679.1E6	567.8E6	0.1017	0.1052
11)	GAMMA CHL...	3.742	3.618	715.3E6	547.1E6	0.1069	0.1046
12)	ALPHA CHL...	3.856	3.743	701.4E6	581.6E6	0.1056	0.1036
13)	4,4'-DDE	3.934	3.909	958.5E6	743.4E6	0.1026	0.1035
14)	ENDOSULFAN I	3.966	3.785	672.2E6	522.2E6	0.1047	0.1033
15)	DIELDRIN	4.163	4.018	742.7E6	579.7E6	0.1110	0.1077
16)	ENDRIN	4.345	4.260	661.5E6	494.3E6	0.1027	0.0933
17)	4,4'-DDD	4.415	4.381	546.8E6	447.0E6	0.0977	0.1045
18)	ENDOSULFAN 2	4.518	4.433	526.4E6	412.5E6	0.0955	0.0892
19)	4,4'-DDT	4.627	4.613	404.7E6	279.7E6	0.0891	0.0790
20)	ENDRIN AL...	4.829	4.689	417.0E6	348.3E6	0.0958	0.0930
21)	METHOXYCHLOR	4.990	5.119	184.4E6	131.0E6	0.0830	0.0728
22)	MIREX	5.064	5.205	356.6E6	265.5E6	0.0805	0.0741
23)	ENDOSULFA...	5.137	4.889	450.1E6	369.0E6	0.0892	0.0836
24)	ENDRIN KE...	5.327	5.250	476.9E6	383.9E6	0.0810	0.0785
25)	DECACHLOR...	5.999	6.051	485.3E6	472.5E6	0.0958	0.0894

SemiQuant Compounds - Not Calibrated on this Instrument

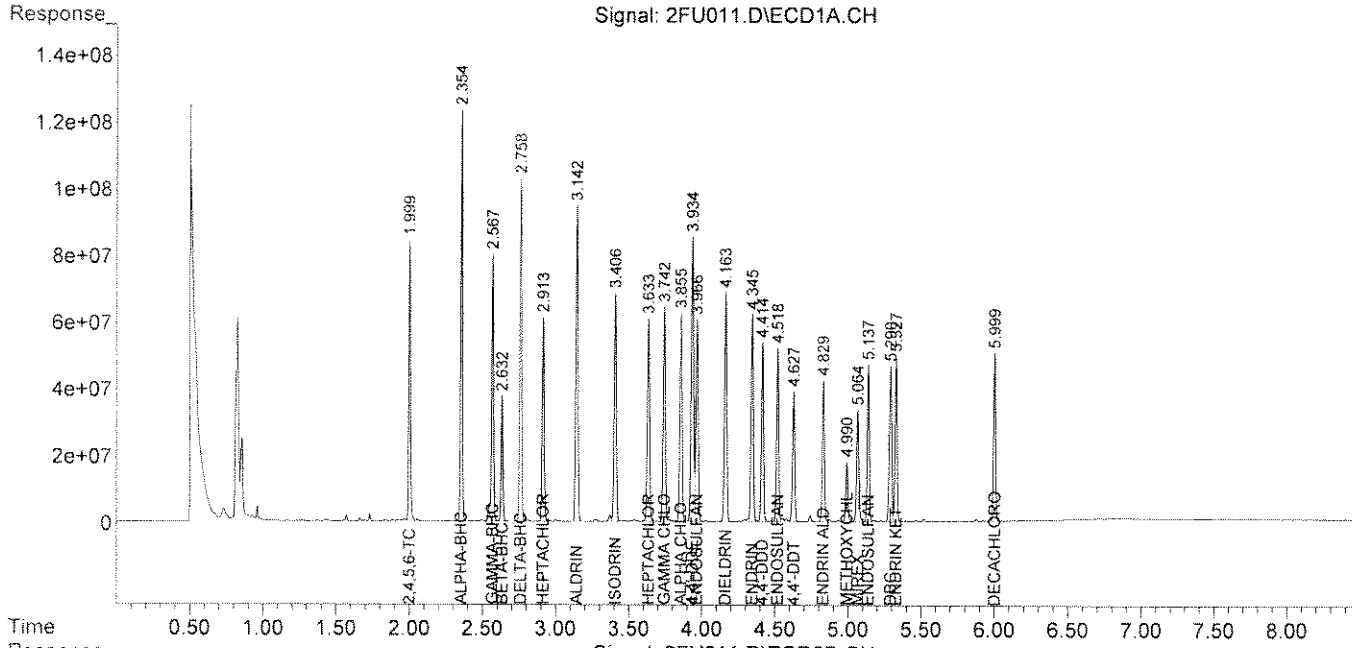
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

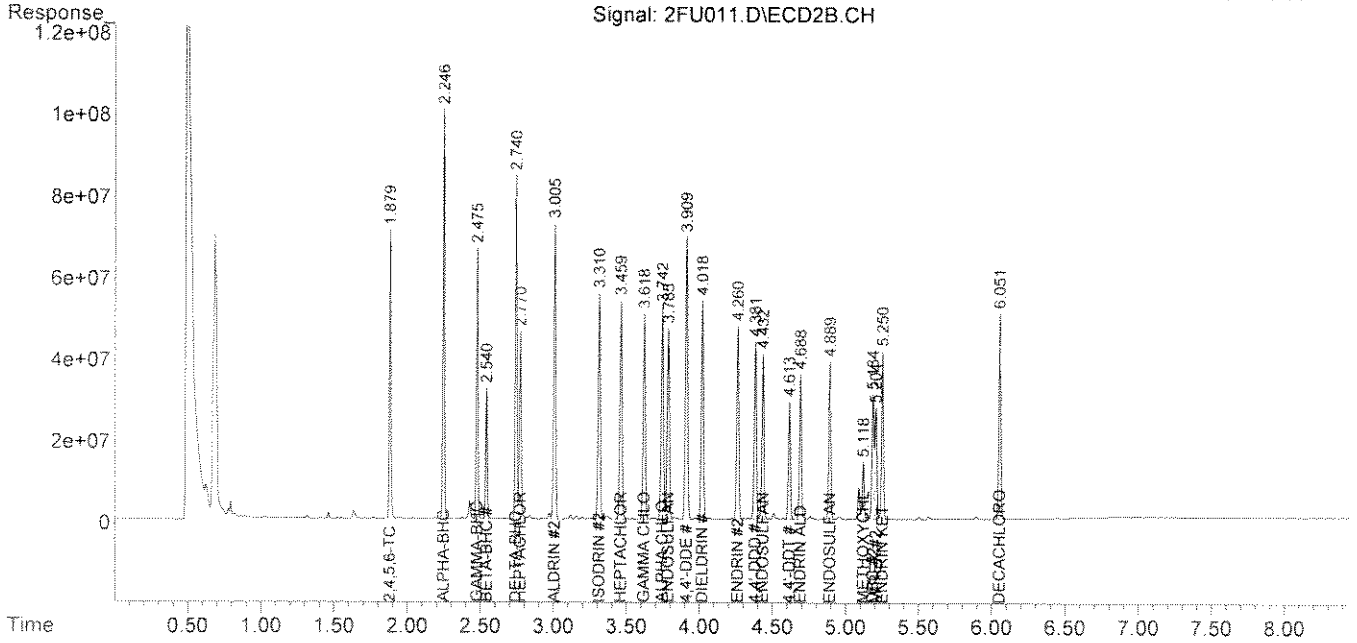
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 12:18
Operator : RC
Sample : 3F24028-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 12:28:55 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 17:56
Operator : RC
Sample : A303499-06
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:12:10 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.288	5.185	695.9E6	321.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	381.9E6	315.2E6	0.0419	0.0510
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.999	6.052	263.9E6	249.6E6	0.0393	0.0431

SemiQuant Compounds - Not Calibrated on this Instrument

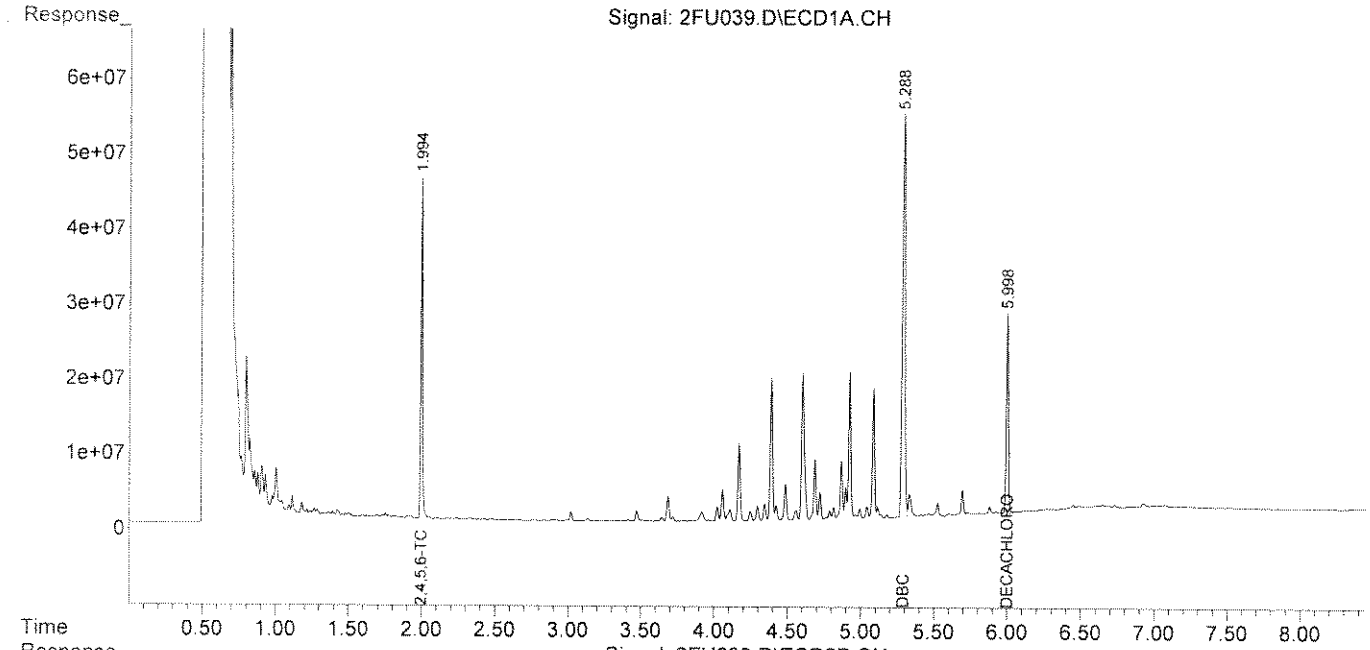
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

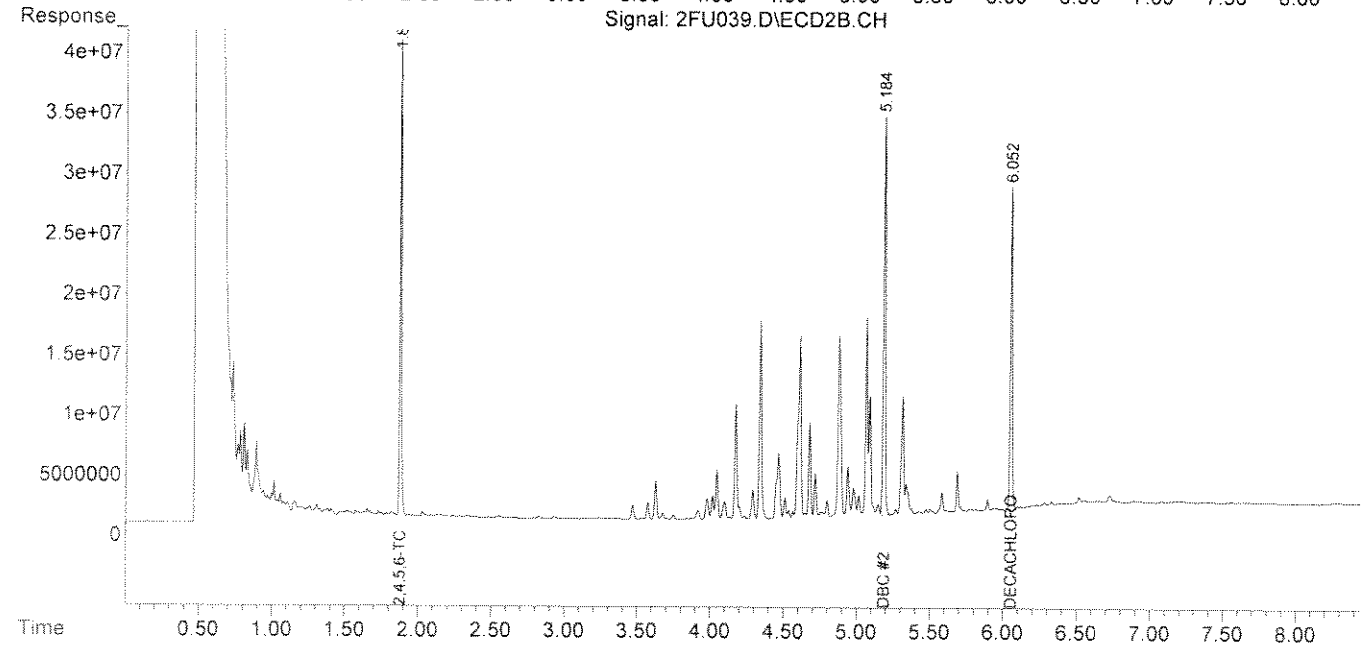
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 17:56
Operator : RC
Sample : A303499-06
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:12:10 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:08
Operator : RC
Sample : A303499-07
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:12:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	527.5E6	303.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.877	355.5E6	304.7E6	0.0514	0.0523
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	274.4E6	272.8E6	0.0539	0.0499

SemiQuant Compounds - Not Calibrated on this Instrument

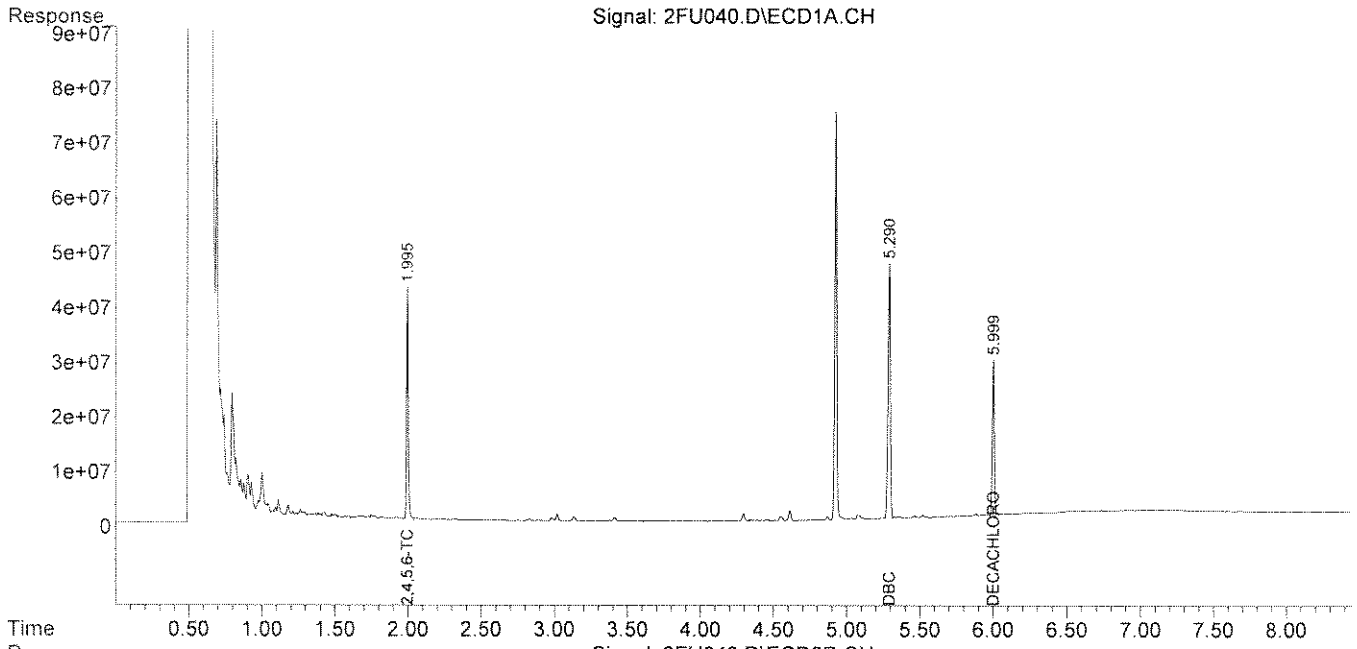
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

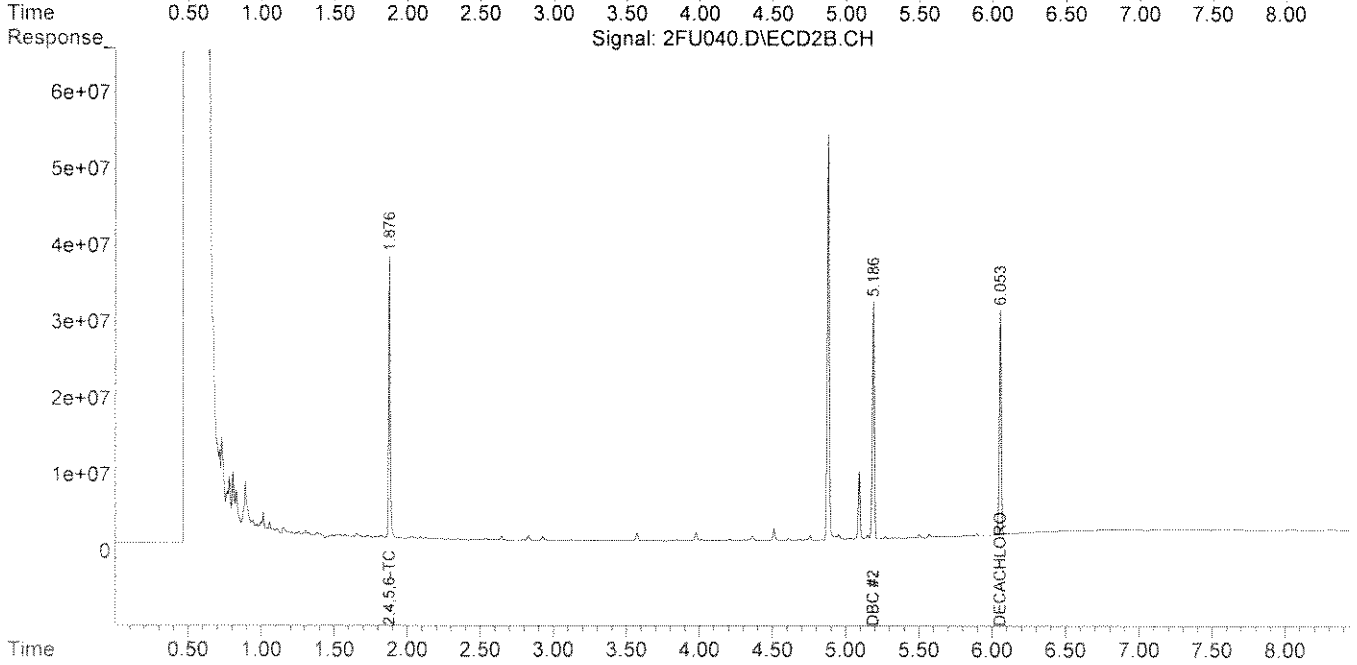
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:08
Operator : RC
Sample : A303499-07
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:12:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:20
Operator : RC
Sample : A303499-09
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:13:52 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.289	5.184	584.7E6	318.6E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	464.8E6	394.5E6	0.0606	0.0644
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.998	6.052	282.9E6	290.9E6	0.0501	0.0507

SemiQuant Compounds - Not Calibrated on this Instrument

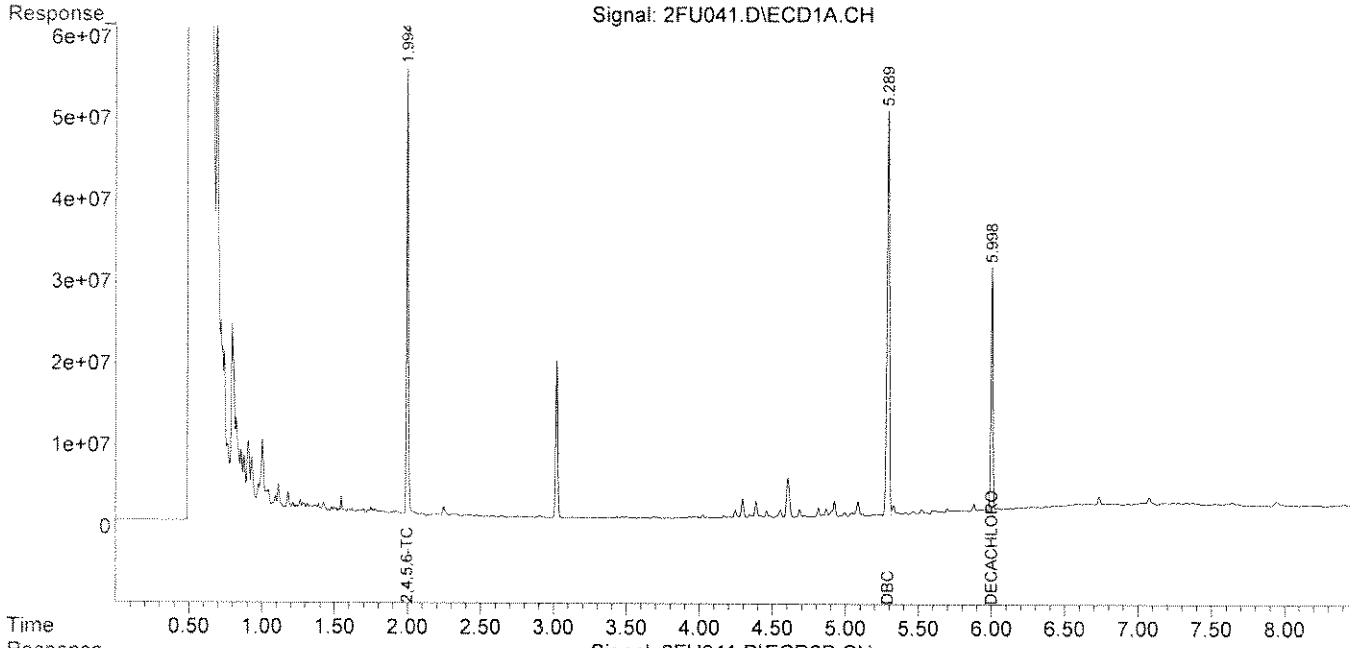
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

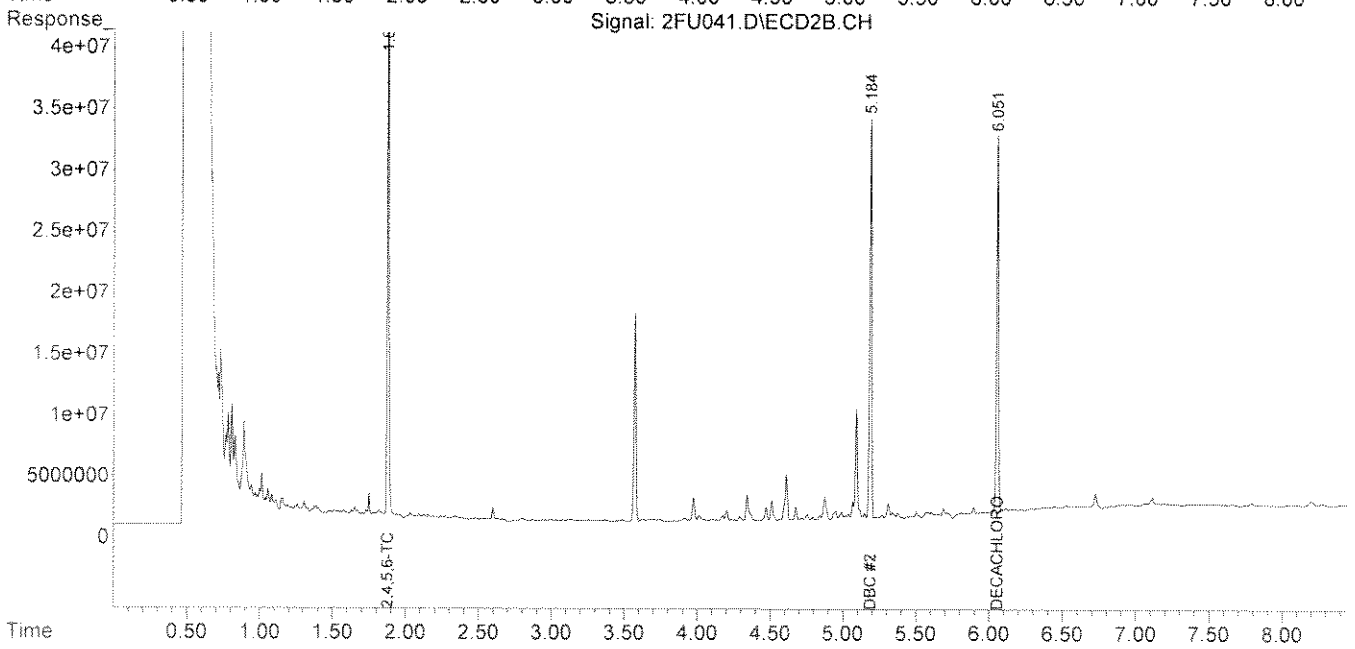
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:20
Operator : RC
Sample : A303499-09
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:13:52 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:32
Operator : RC
Sample : A303499-10
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:14:27 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	523.3E6	304.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.877	305.6E6	268.5E6	0.0445	0.0459
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	271.0E6	260.3E6	0.0536	0.0475

SemiQuant Compounds - Not Calibrated on this Instrument

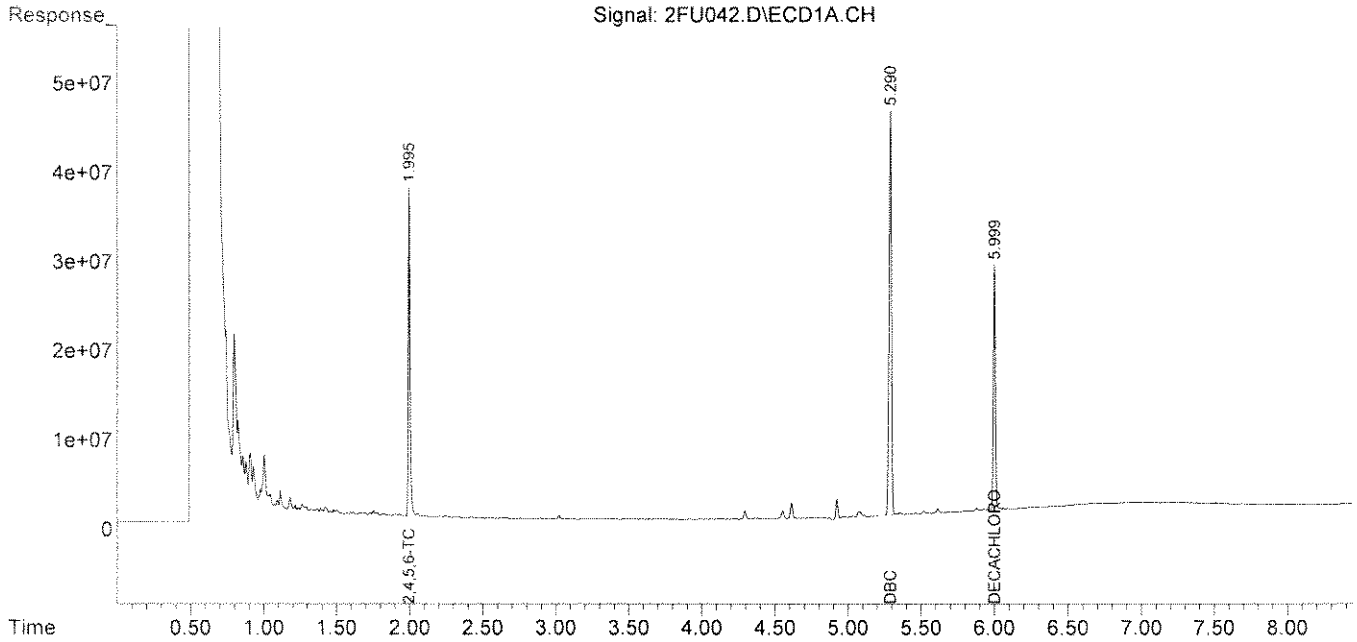
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

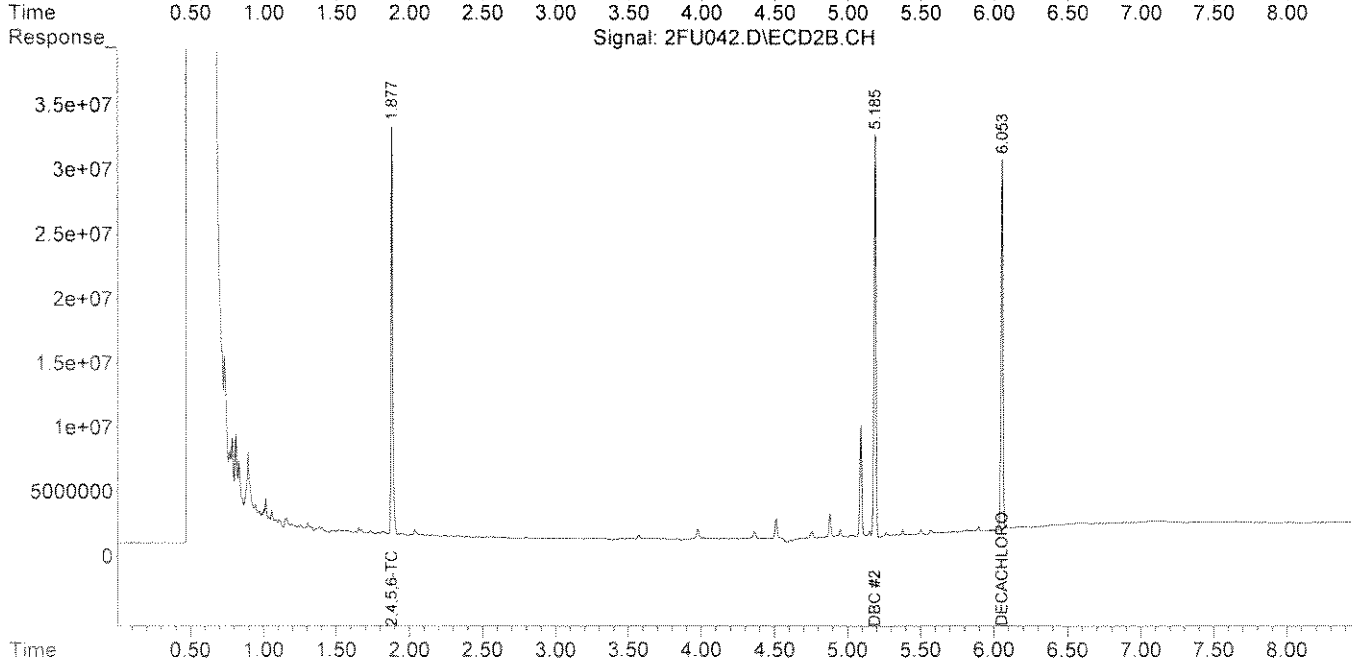
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:32
Operator : RC
Sample : A303499-10
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:14:27 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:44
Operator : RC
Sample : A303499-11@2X
Misc : 2X
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:15:27 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	456.9E6	255.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	231.6E6	202.4E6	0.0387	0.0412
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	151.0E6	135.5E6	0.0342	0.0295

SemiQuant Compounds - Not Calibrated on this Instrument

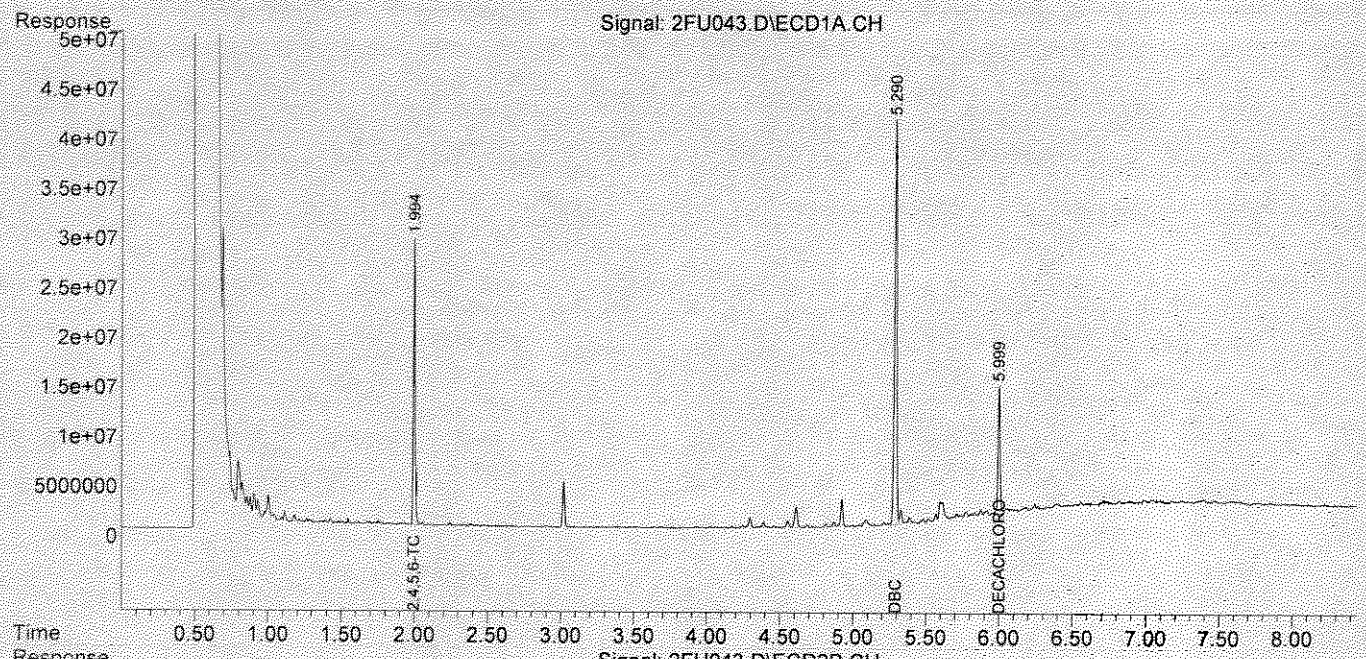
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

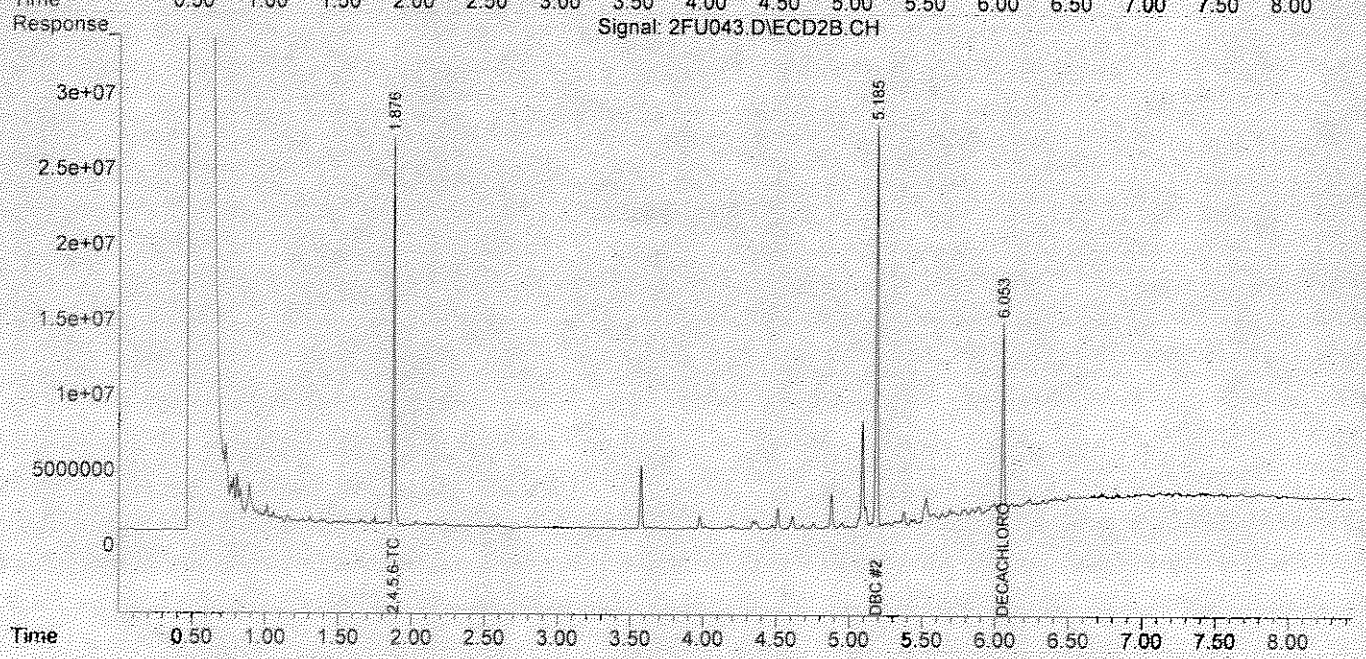
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:44
Operator : RC
Sample : A303499-11@2X
Misc : 2X
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:15:27 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:56
Operator : RC
Sample : A303499-12
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:18:24 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.289	5.185	431.3E6	248.7E6	0.1000m	0.1000m
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.877	385.6E6	332.9E6	0.0682	0.0697
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.999	6.053	264.7E6	295.9E6	0.0636	0.0661

SemiQuant Compounds - Not Calibrated on this Instrument

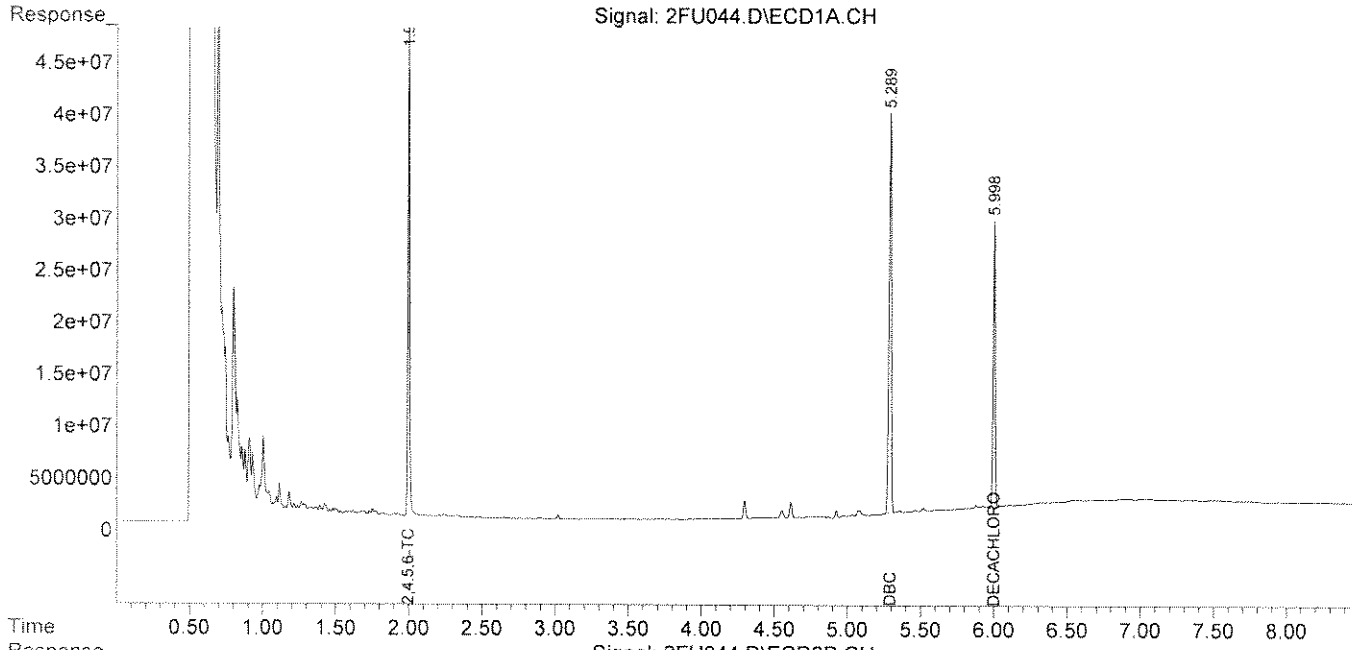
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

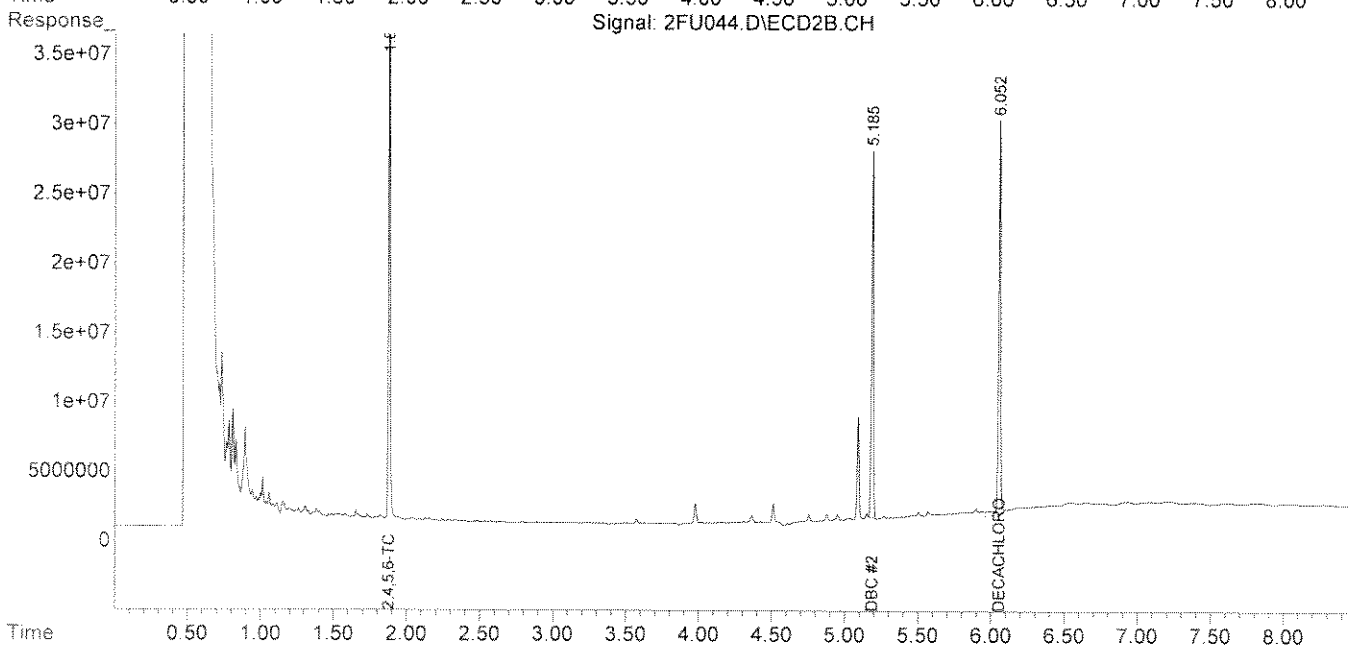
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:56
Operator : RC
Sample : A303499-12
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:18:24 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



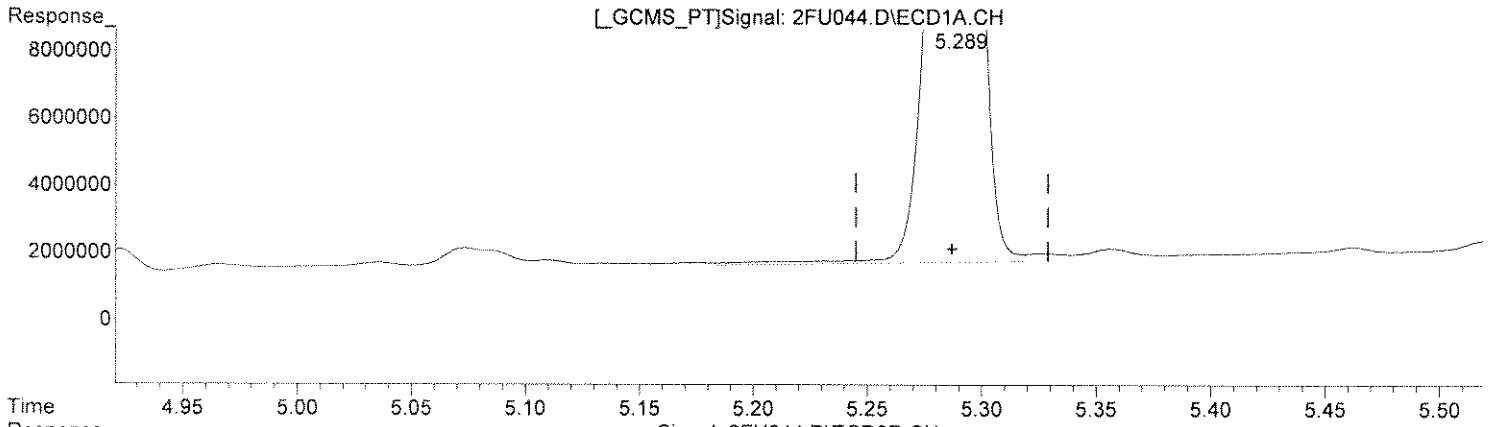


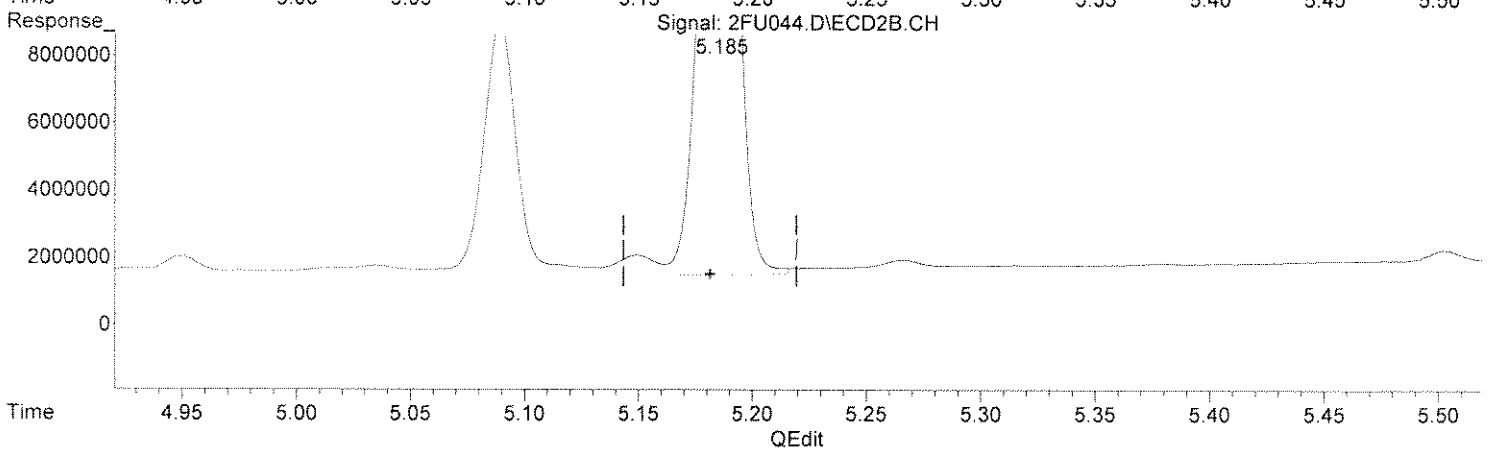
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:56
Operator : RC
Sample : A303499-12
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 26 20:03:48 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) DBC (I)
5.290min 0.100 ug/mL
response 440879343

(1) DBC #2 (I)
5.186min 0.100 ug/mL
response 256823368

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 7/6/27/13
Review by/Date: RC 06/27/13

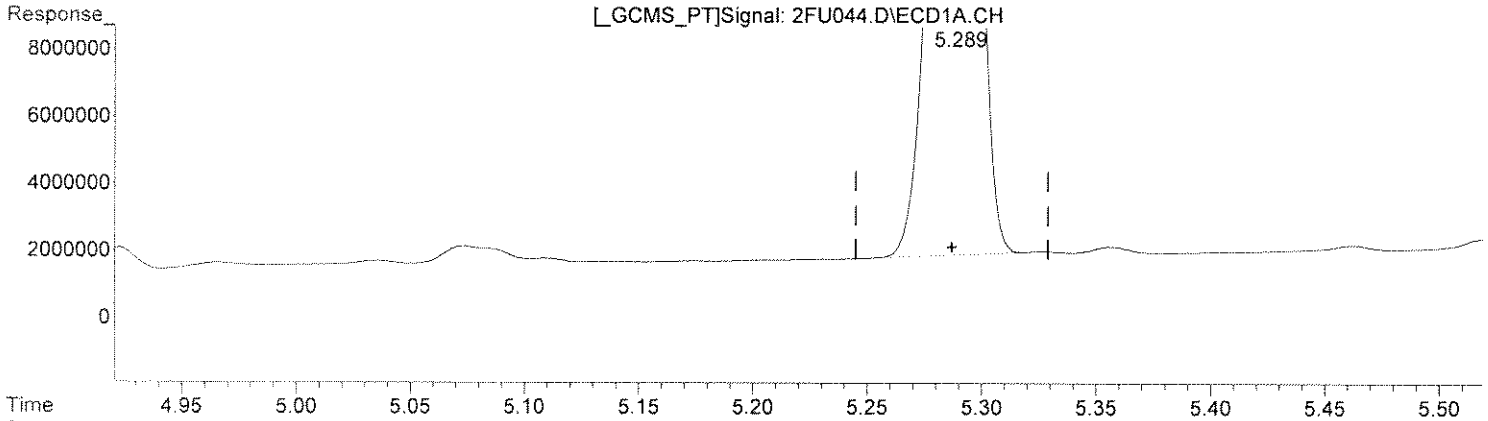
(+) = Expected Retention Time

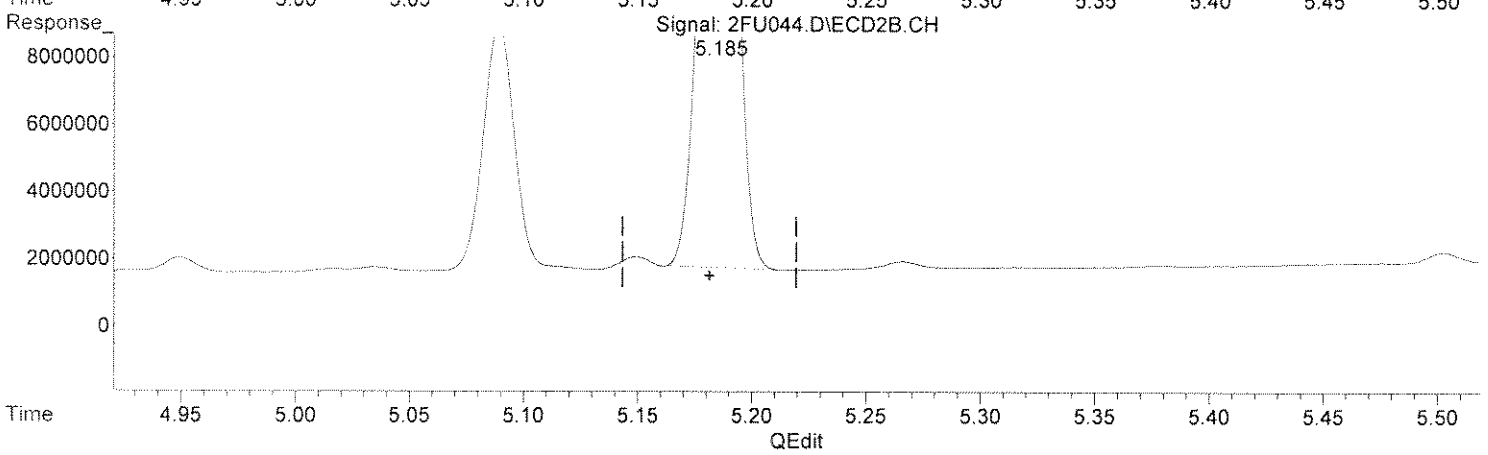
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 18:56
Operator : RC
Sample : A303499-12
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 26 20:03:48 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) DBC (I)
5.289min 0.100 ug/mL m
response 431294785

(1) DBC #2 (I)
5.185min 0.100 ug/mL m
response 248710404

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date 9 6/27/13
Review by/Date: RC 6/27/13

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:08
Operator : RC
Sample : A303499-14@2X
Misc : 2X
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:23:26 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.288	5.185	817.2E6	288.7E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	190.5E6	150.8E6	0.0178	0.0272 #
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	162.0E6	183.7E6	0.0205	0.0353 #

SemiQuant Compounds - Not Calibrated on this Instrument

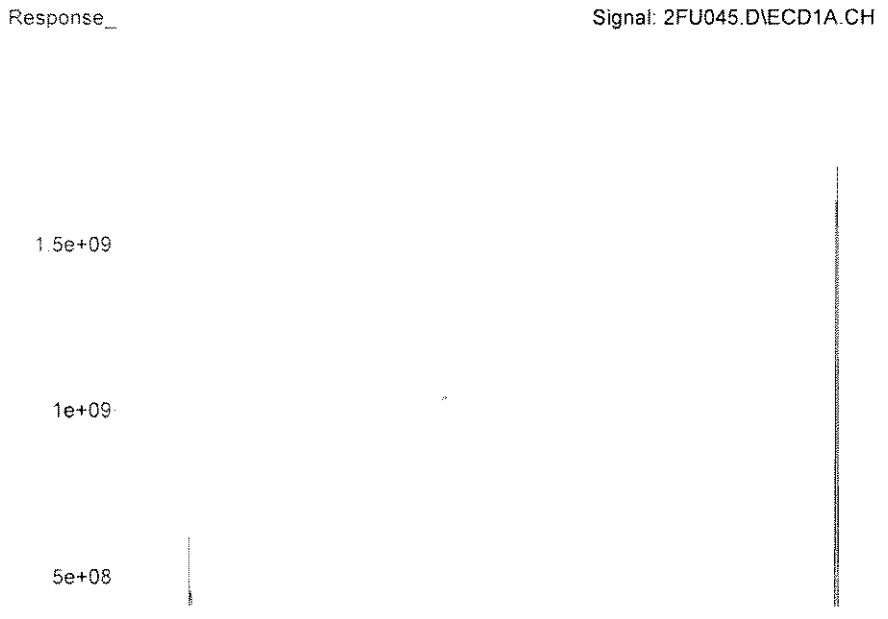
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

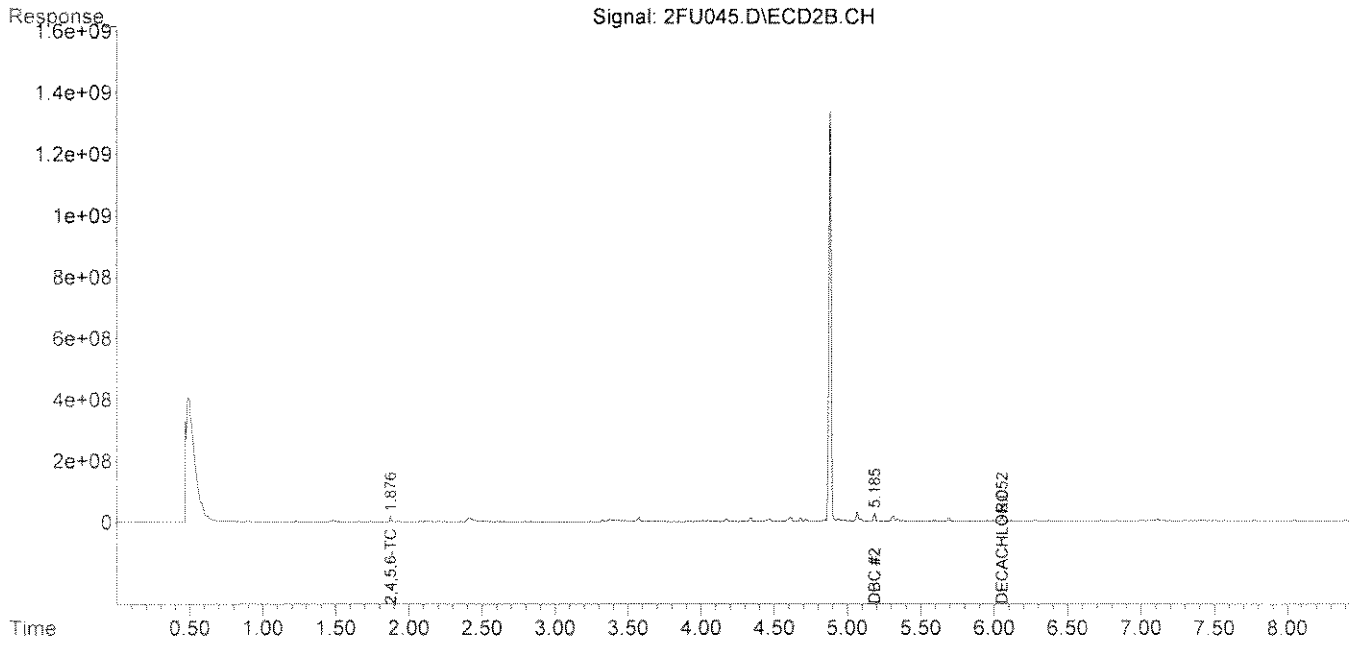
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:08
Operator : RC
Sample : A303499-14@2X
Misc : 2X
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:23:26 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:20
Operator : RC
Sample : A303499-15
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:25:03 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	557.2E6	319.6E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.877	330.2E6	280.6E6	0.0452	0.0457
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	285.2E6	243.5E6	0.0530	0.0423

SemiQuant Compounds - Not Calibrated on this Instrument

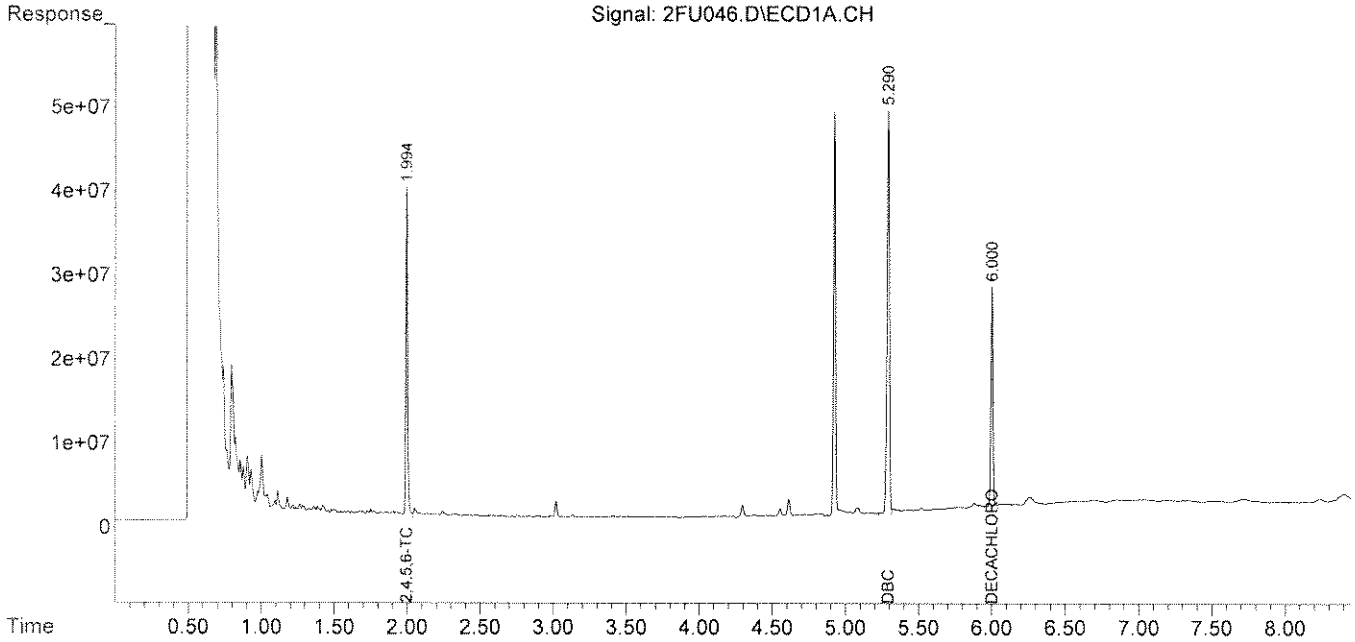
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

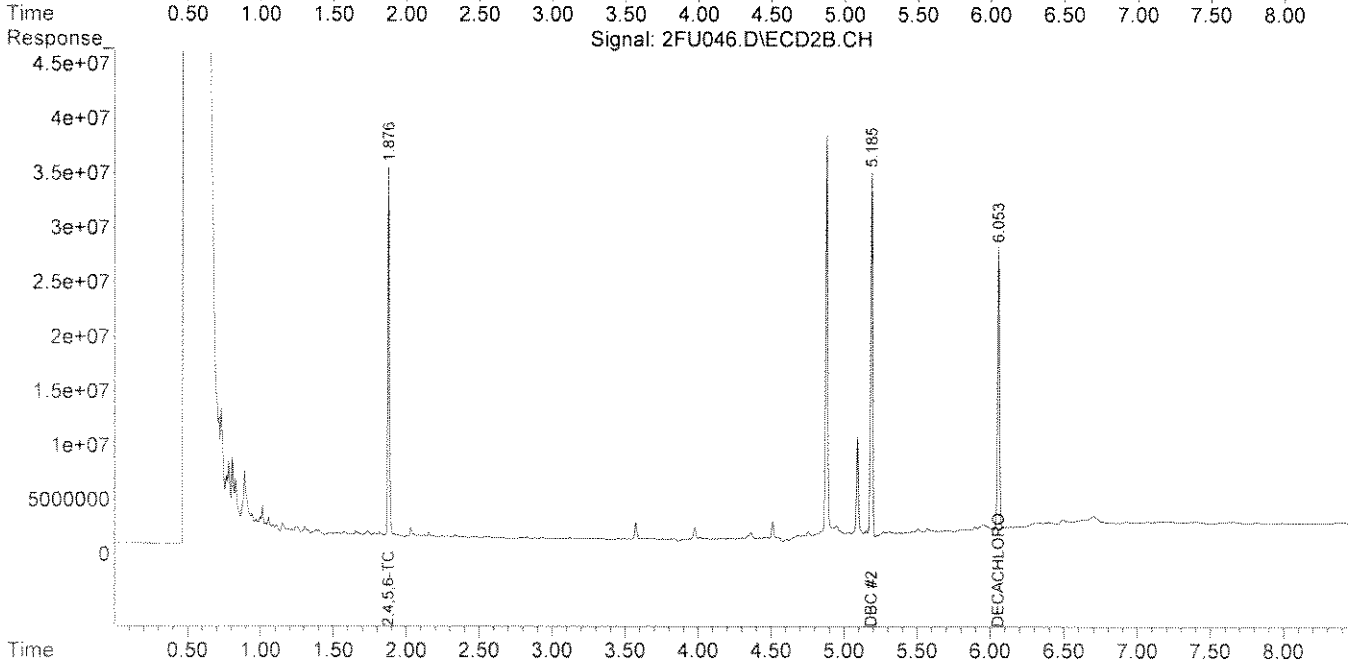
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:20
Operator : RC
Sample : A303499-15
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:25:03 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:32
Operator : RC
Sample : A303499-17@2X
Misc : 2X
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:25:38 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	544.8E6	305.8E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.994	1.876	121.5E6	111.4E6	0.0170	0.0190
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.999	6.053	80305755	91992779	0.0153	0.0167

SemiQuant Compounds - Not Calibrated on this Instrument

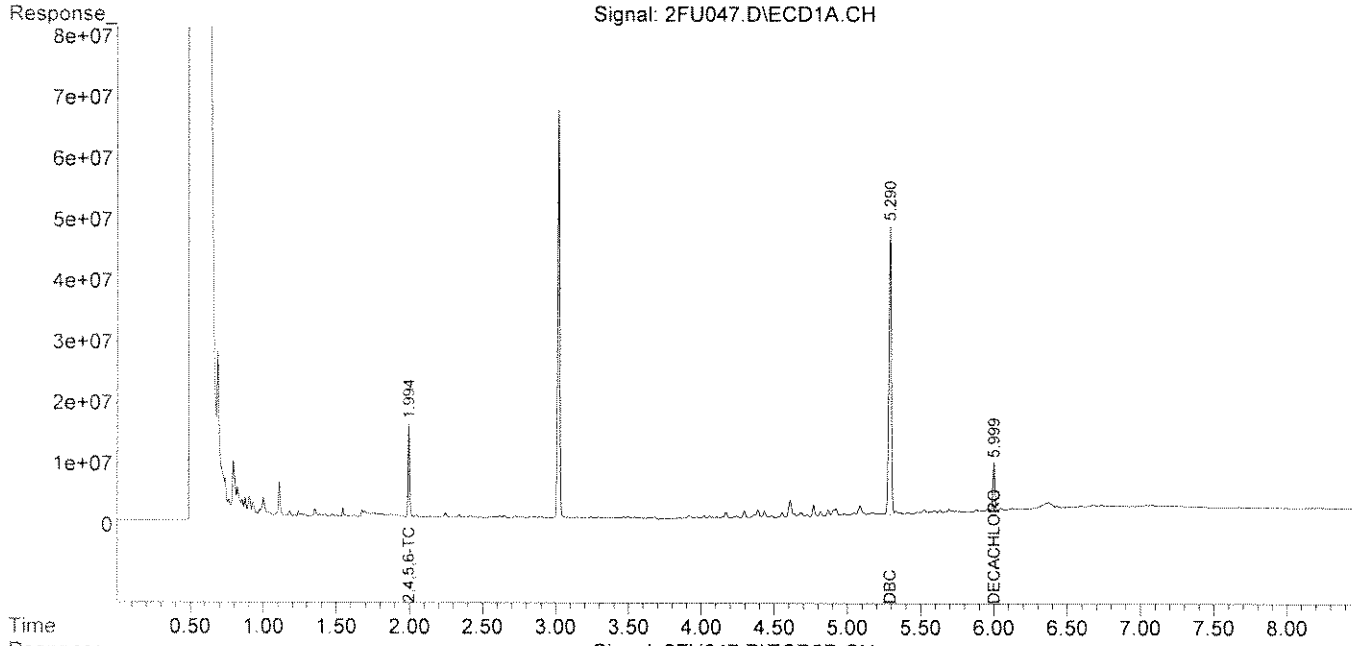
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

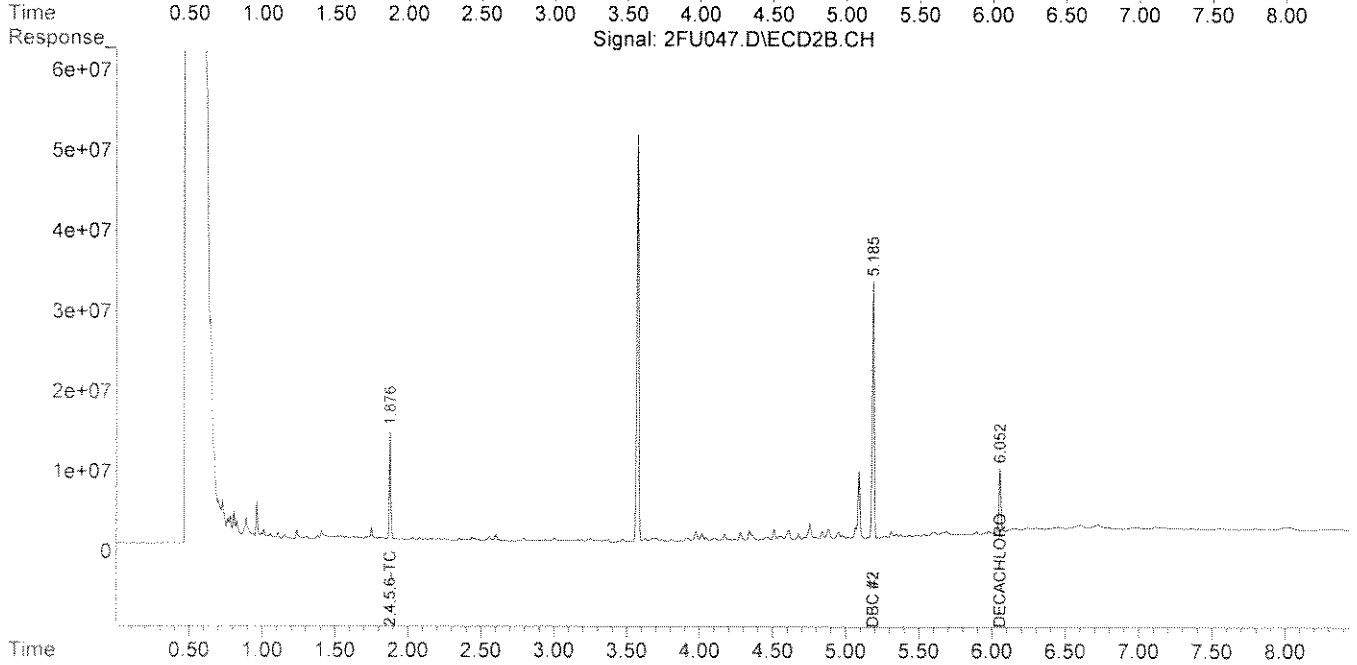
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:32
Operator : RC
Sample : A303499-17@2X
Misc : 2X
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:25:38 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:45
Operator : RC
Sample : A303499-18
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:26:10 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	591.1E6	347.9E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	198.2E6	168.4E6	0.0256	0.0252
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	240.3E6	242.1E6	0.0421	0.0386

SemiQuant Compounds - Not Calibrated on this Instrument

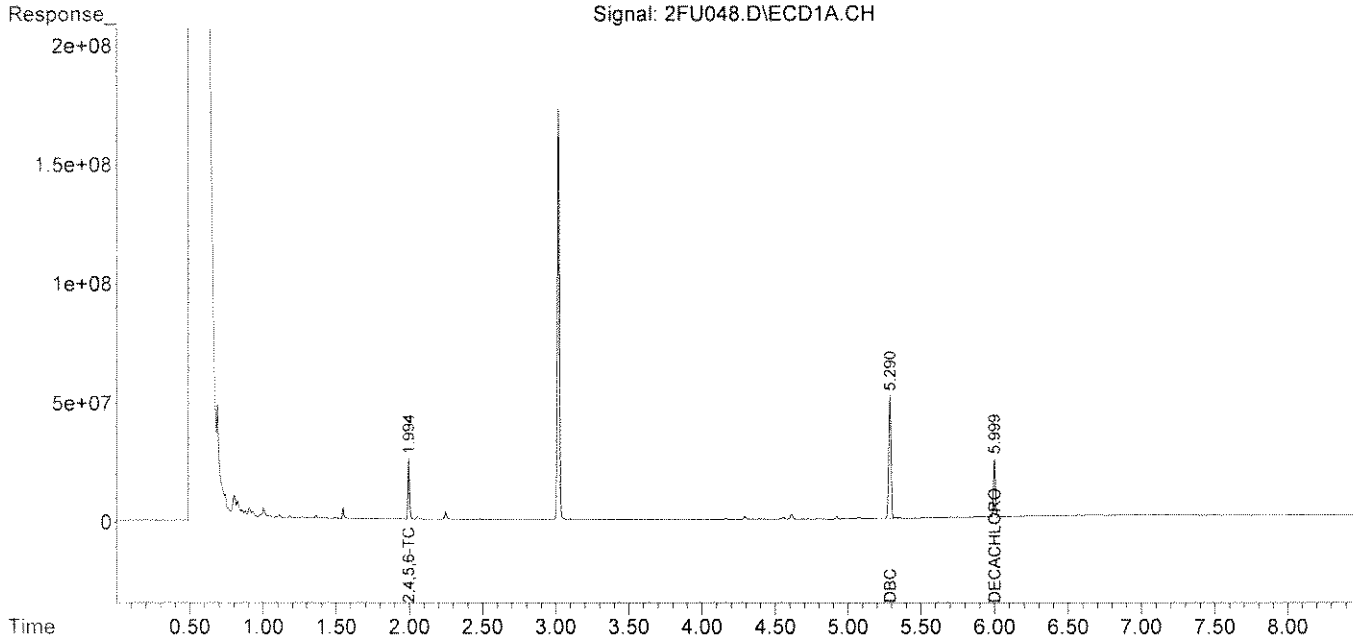
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

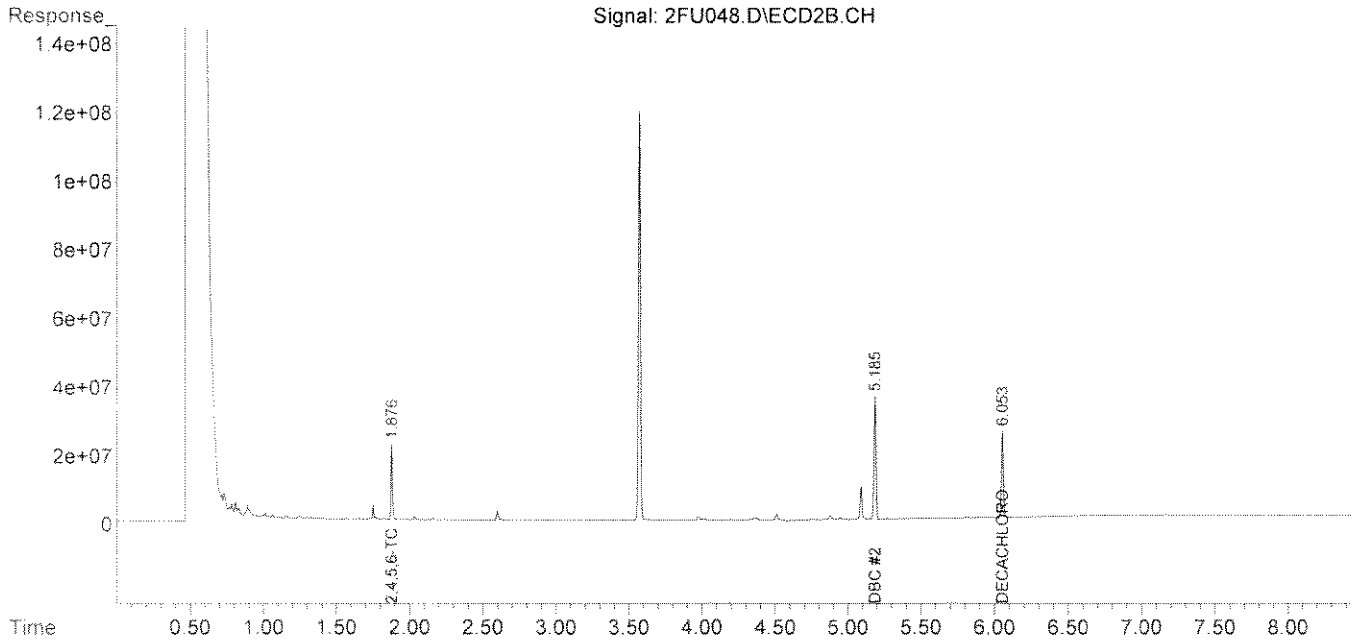
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:45
Operator : RC
Sample : A303499-18
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:26:10 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:57
Operator : RC
Sample : A303499-19
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:26:43 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	567.6E6	327.8E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	253.8E6	217.1E6	0.0341	0.0345
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	232.3E6	245.7E6	0.0424	0.0416

SemiQuant Compounds - Not Calibrated on this Instrument

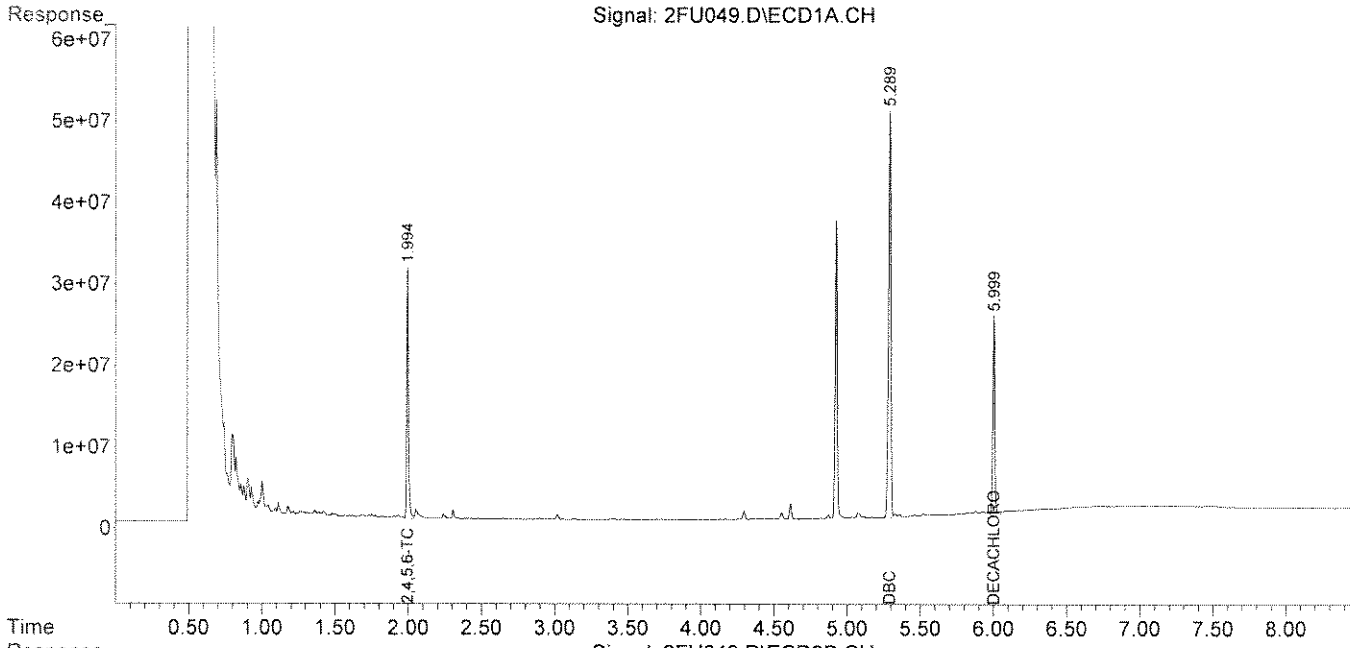
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

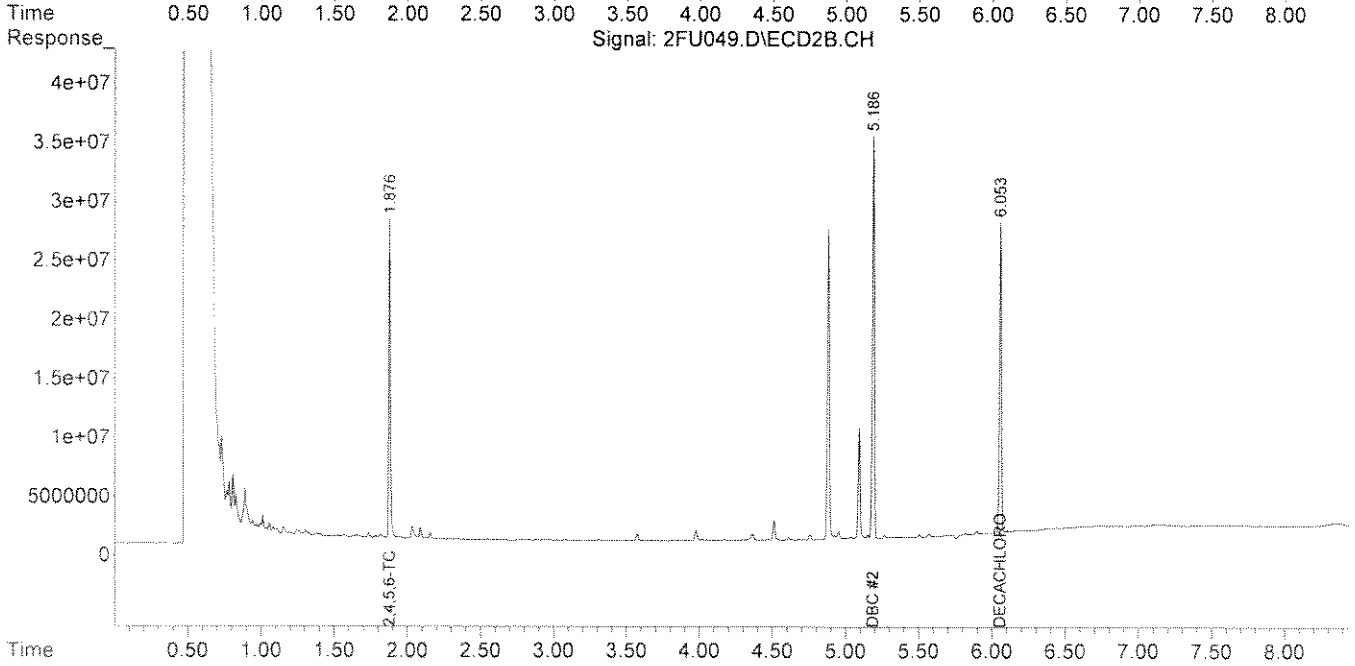
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 19:57
Operator : RC
Sample : A303499-19
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:26:43 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 20:09
Operator : RC
Sample : A303499-20
Misc :
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:27:12 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.186	555.4E6	321.2E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.876	260.1E6	217.7E6	0.0357	0.0353
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	216.6E6	233.6E6	0.0404	0.0404

SemiQuant Compounds - Not Calibrated on this Instrument

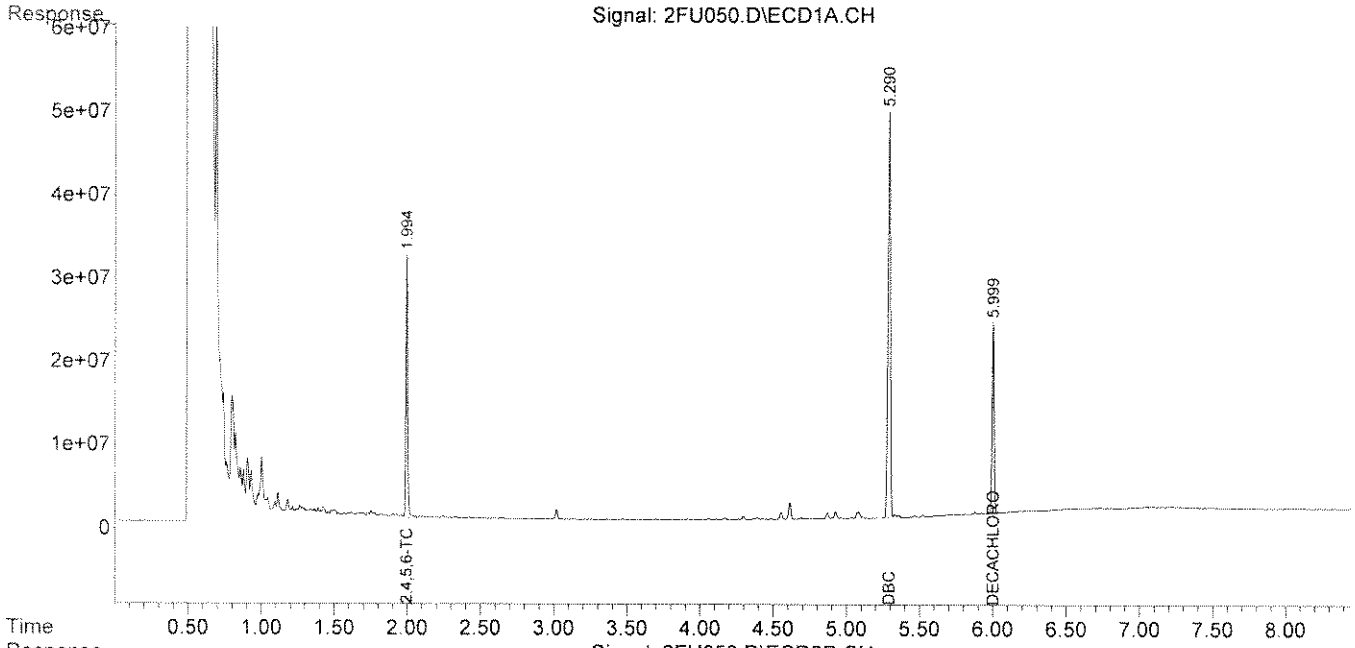
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

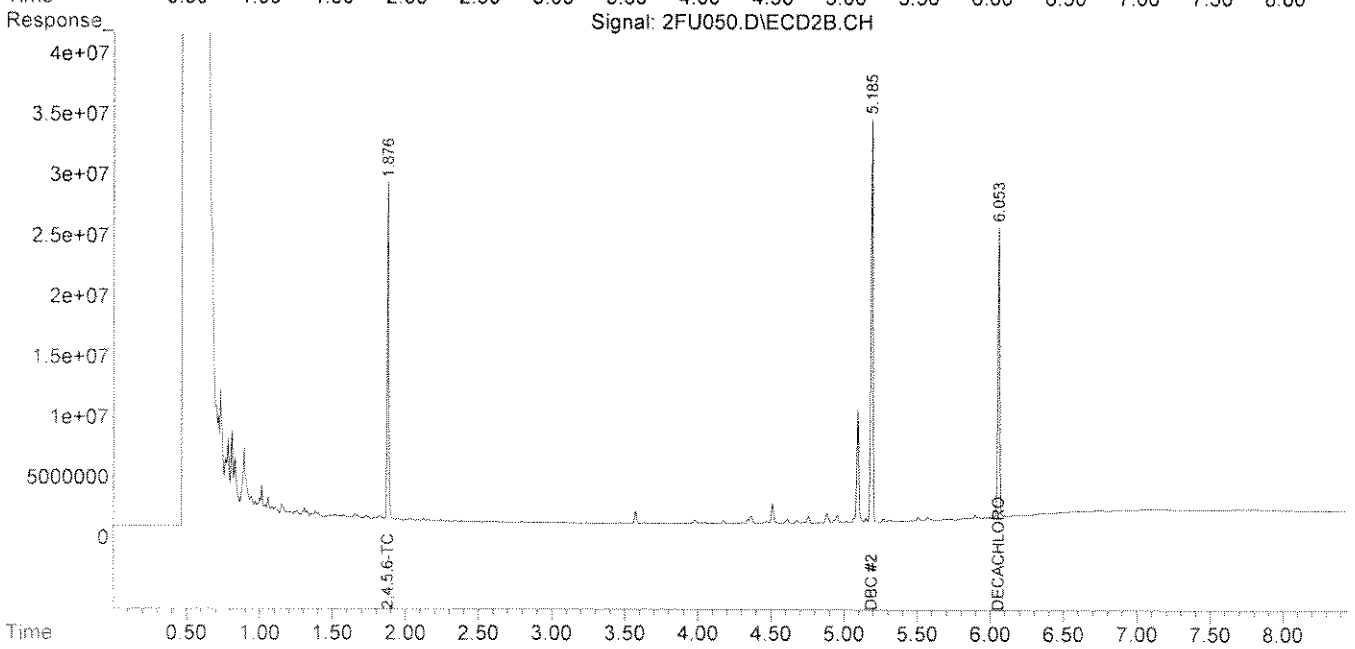
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 20:09
Operator : RC
Sample : A303499-20
Misc :
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:27:12 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 20:21
Operator : RC
Sample : A303499-21
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:27:44 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.290	5.185	573.5E6	332.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.877	334.2E6	278.3E6	0.0444	0.0436
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	178.6E6	254.0E6	0.0323	0.0424 #

SemiQuant Compounds - Not Calibrated on this Instrument

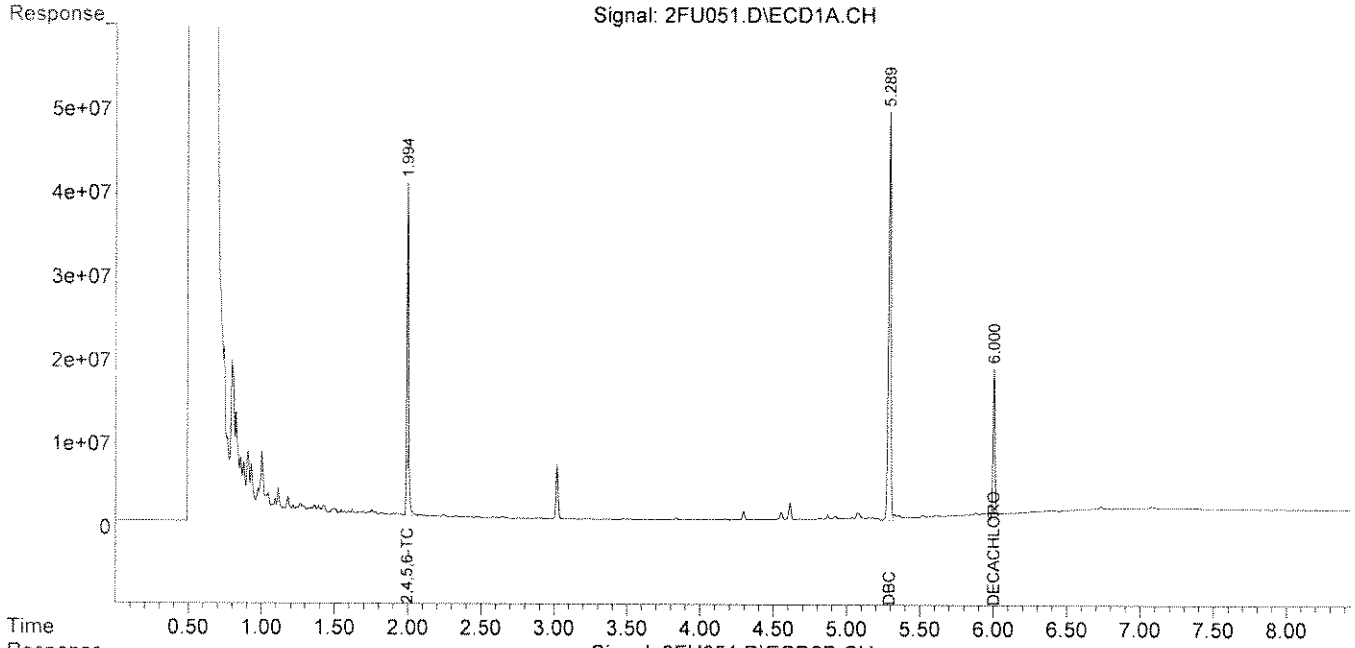
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

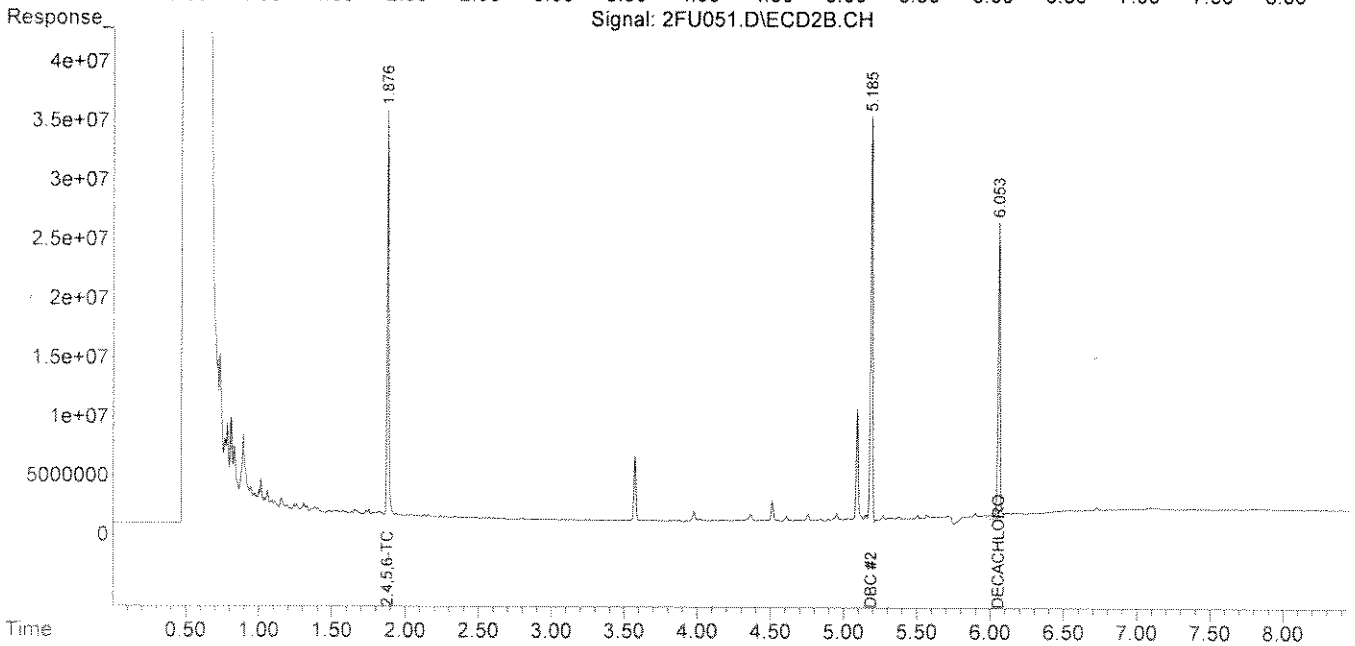
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 20:21
Operator : RC
Sample : A303499-21
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:27:44 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 20:33
Operator : RC
Sample : A303499-22
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:29:23 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.289	5.185	580.0E6	323.5E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.995	1.877	166.4E6	140.5E6	0.0219	0.0226
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	2.756	2.740	16744771	14445445	0.0053	0.0022 #
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	6.000	6.053	171.8E6	186.3E6	0.0307	0.0320

SemiQuant Compounds - Not Calibrated on this Instrument

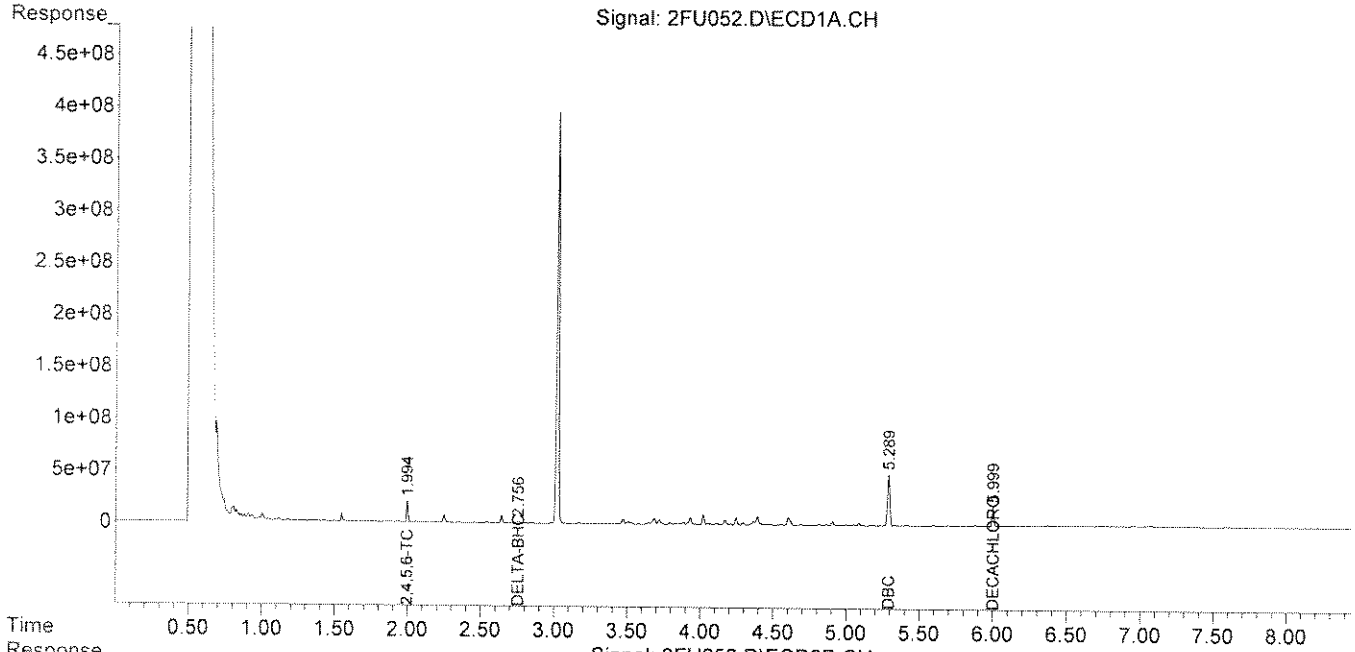
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

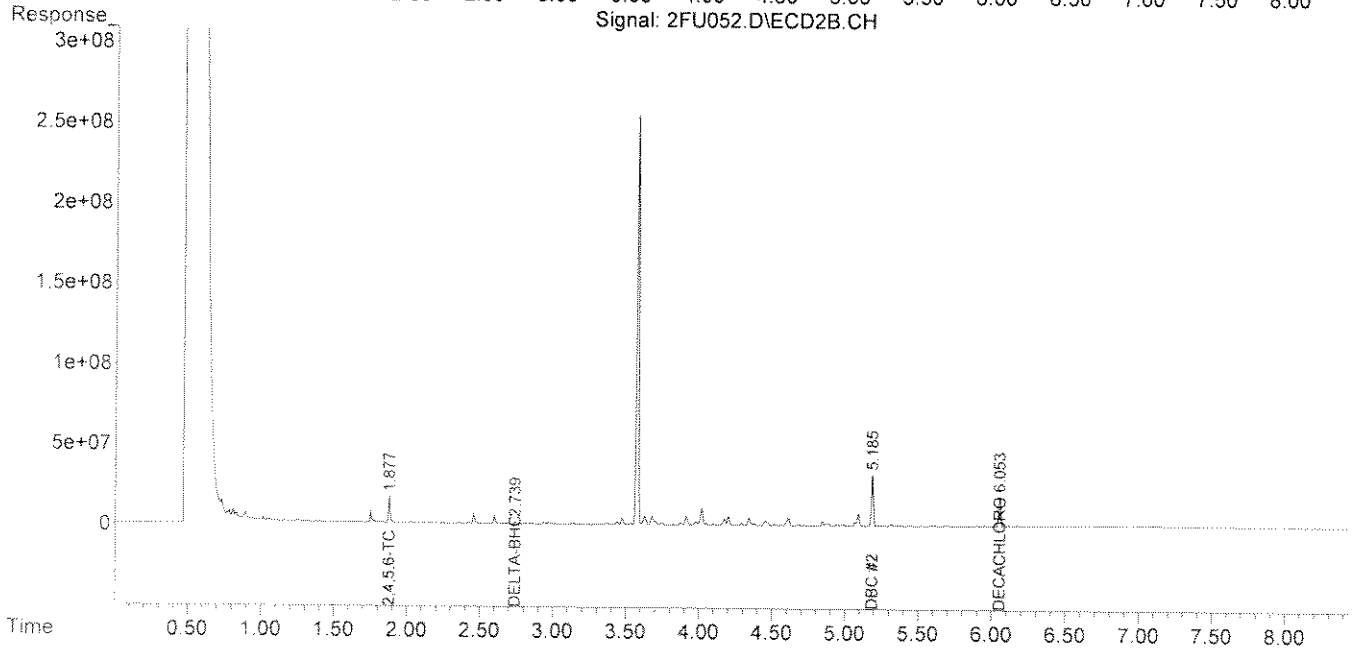
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FU13\
Data File : 2FU052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2013 20:33
Operator : RC
Sample : A303499-22
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:29:23 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Wed Jun 26 10:10:30 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





ANALYSIS SEQUENCE

AA24761

Instrument: OSVGCECD2

Calibration ID: 1304047

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24761-PEM1	QC		1		A3F0149	A3F0147	
AA24761-CCV1	QC		2		A3E0007	A3F0147	
AA24761-CCV2	QC		3		A3E0379		
AA24761-CCV3	QC		4		A3B0216		
3F27008-BLK1	QC		5			A3F0147	
3F27008-BS1	QC		6			A3F0147	
3F27008-BSD1	QC		7			A3F0147	
3F28005-BLK1	QC		8			A3F0147	
3F28005-BS1	QC		9			A3F0147	
3F28005-BSD1	QC		10			A3F0147	
3F27011-BLK1	QC		11			A3F0147	
3F27011-BLK2	QC		12			A3F0147	
3F27011-BLK3	QC		13			A3F0147	
3F27011-BS1	QC		14			A3F0147	
3F27011-BSD1	QC		15			A3F0147	
A303412-04RE1	8081B DOD	F	16			A3F0147	CH2M Hill, Inc. (CH025)
A303412-05RE1	8081B DOD	F	17			A3F0147	CH2M Hill, Inc. (CH025)
A303448-03RE1	8081B DOD	A	18			A3F0147	CH2M Hill, Inc. (CH025)
A303448-07RE1	8081B DOD	A	19			A3F0147	CH2M Hill, Inc. (CH025)
A303448-09RE1	8081B DOD	A	20			A3F0147	CH2M Hill, Inc. (CH025)
A303479-06RE1	8081B DOD	A	21			A3F0147	CH2M Hill, Inc. (CH025)
A303479-07RE1	8081B DOD	A	22			A3F0147	CH2M Hill, Inc. (CH025)
A303479-08RE1	8081B DOD	A	23			A3F0147	CH2M Hill, Inc. (CH025)
A303499-06RE1	8081B DOD	E	24			A3F0147	CH2M Hill, Inc. (CH025)
A303499-07RE1	8081B DOD	E	25			A3F0147	CH2M Hill, Inc. (CH025)
A303499-09RE1	8081B DOD	F	26			A3F0147	CH2M Hill, Inc. (CH025)
A303499-10RE1	8081B DOD	F	27			A3F0147	CH2M Hill, Inc. (CH025)
A303499-14RE1	8081B DOD	E	28			A3F0147	CH2M Hill, Inc. (CH025)
A303499-15RE1	8081B DOD	E	29			A3F0147	CH2M Hill, Inc. (CH025)
A303499-17RE1	8081B DOD	E	30			A3F0147	CH2M Hill, Inc. (CH025)
A303499-18RE1	8081B DOD	E	31			A3F0147	CH2M Hill, Inc. (CH025)
A303499-19RE1	8081B DOD	E	32			A3F0147	CH2M Hill, Inc. (CH025)
A303499-20RE1	8081B DOD	E	33			A3F0147	CH2M Hill, Inc. (CH025)

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

AA24761

Instrument: OSVGCECD2

Calibration ID: 1304047

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
A303499-21RE1	8081B DOD	F	34			A3F0147	CH2M Hill, Inc. (CH025)
A303499-22RE1	8081B DOD	F	35			A3F0147	CH2M Hill, Inc. (CH025)
A303466-01	8081B TCLP DOD	A 02	36			A3F0147	CH2M Hill, Inc. (CH025)
A303466-02	8081B TCLP DOD	A 02	37			A3F0147	CH2M Hill, Inc. (CH025)
A303466-03	8081B TCLP DOD	A 01	38			A3F0147	CH2M Hill, Inc. (CH025)
A303466-04	8081B TCLP DOD	A 01	39			A3F0147	CH2M Hill, Inc. (CH025)

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/28/2013 12:56:15AM

Analysis
8081B DOD [EPA 8081B]

3F28005

ENCO Orlando

Prepared using: EPA 3550C

Surrogate Solution
___ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0382 Pesticides Working Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F28005-BLK1		Blank		QC	-	-	30	10			1000		
3F28005-BS1		LCS		QC	-	-	30	10	A3E0382	1000	1000		
3F28005-BSD1		LCS Dup		QC	-	-	30	10	A3E0382	1000	1000		
A303479-06RE1	1 D	TR-5TH-SB05-02-04-0613 A[C11]	10-Jul-13	8081B DOD	-	-	30.1	10			1000		Low surrogate recovery. Added wet
A303479-07RE1	2 D	TR-5TH-SB06-0.5-01-0613 A[C11]	10-Jul-13	8081B DOD	-	-	30.3	10			1000		Low surrogate recovery. Added
A303479-08RE1	3 D	TR-5TH-SB06-04-06-0613 A[C11]	10-Jul-13	8081B DOD	-	-	30	10			1000		Low surrogate recovery. Added
A303499-06RE1	4 D	TR-2ND-SB07-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30	10			1000		Low surrogate recovery. Added
A303499-07RE1	5 D	TR-2ND-SB07-04-06-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30.1	10			1000		Low surrogate recovery. Added
A303499-09RE1	6 D	TR-2ND-SB06-0.5-01-0613 F[C11]	11-Jul-13	8081B DOD	-	-	30	10			1000		Low surrogate recovery. Added
A303499-10RE1	7 D	TR-2ND-SB06-05-07-0613 F[C11]	11-Jul-13	8081B DOD	-	-	30.2	10			1000		Low surrogate recovery. Added wet
A303499-14RE1	8 D	TR-2ND-SB04-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30.2	10			1000		Low surrogate recovery. Added
A303499-15RE1	9 D	TR-2ND-SB04-04-06-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30	10			1000		Low surrogate recovery. Added
A303499-17RE1	10 D	TR-2ND-SB05-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30	10			1000		Low surrogate recovery. Added wet
A303499-18RE1	11 D	TR-2ND-SB05-03-05-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30.4	10			1000		Low surrogate recovery. Added wet
A303499-19RE1	12 D	TR-2ND-SB03-0.5-01-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30.1	10			1000		Low surrogate recovery. Added wet
A303499-20RE1	13 D	TR-2ND-SB03-04-06-0613 E[C11]	11-Jul-13	8081B DOD	-	-	30	10			1000		Low surrogate recovery. Added wet
A303499-21RE1	14 D	TR-2ND-SB02-0.5-1-0613 F[C11]	11-Jul-13	8081B DOD	-	-	30	10			1000		Low surrogate recovery. Added
A303499-22RE1	15 D	TR-2ND-SB02-06-08-0613 F[C11]	11-Jul-13	8081B DOD	-	-	30.3	10			1000		Low surrogate recovery. Added wet

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

PREPARATION BENCH SHEET

Printed: 6/28/2013 12:56:15AM

3F28005

ENCO Orlando

Prepared using: EPA 3550C

Surrogate Solution
__ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0382 Pesticides Working Spike Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

8081 soil

Start Date/Time 1:30 6-28-13

StopDate/Time 8:00 6-28-13

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3D0357	Solvent Hexane	130939
A3F0391	Solvent Dichloromethane	Solvent Lot # DI398

Equipment Used

Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA

Sonicator	OSON 2,3			
Turbovap	OTVAP 1	Temperature: 40°C	N2 pressure (initial): 3 psi	(final): 12 psi
Turbovap	OTVAP 2	Temperature: 40°C	N2 pressure (initial): 3 psi	(final): 12 psi
Turbovap	OTVAP 3	Temperature: 40°C	N2 pressure (initial): 3 psi	(final): 12 psi
Balance	DEXTBAL 2	Daily calibration complete? [X] Yes [ ] No [ ] NA		
Other				

YGM 6-28-13
Samples Prepared By Date

Samples Prepared By Date

Samples Prepared By Date

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 8:15
Operator : RC
Sample : AA24761-PEM1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 08:44:21 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.259	5.153	251.8E6	146.6E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	0.000	0.000	0	0	N.D. d	N.D. d
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	3.894	3.870	2603070	2702186	N.D.	0.0008
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	4.306	4.221	456.7E6	331.1E6	0.1473	0.1228
17)	4,4'-DDD	4.380	4.345	30343463	28647333	0.0126	0.0134
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	4.592	4.579	603.0E6	404.6E6	0.2767	0.2288
20)	ENDRIN AL...	4.789	0.000	1815512	0	0.0009	N.D. #
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	5.293	5.216	8181334	4796116	0.0029	0.0020 #
25)	DECACHLOR...	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

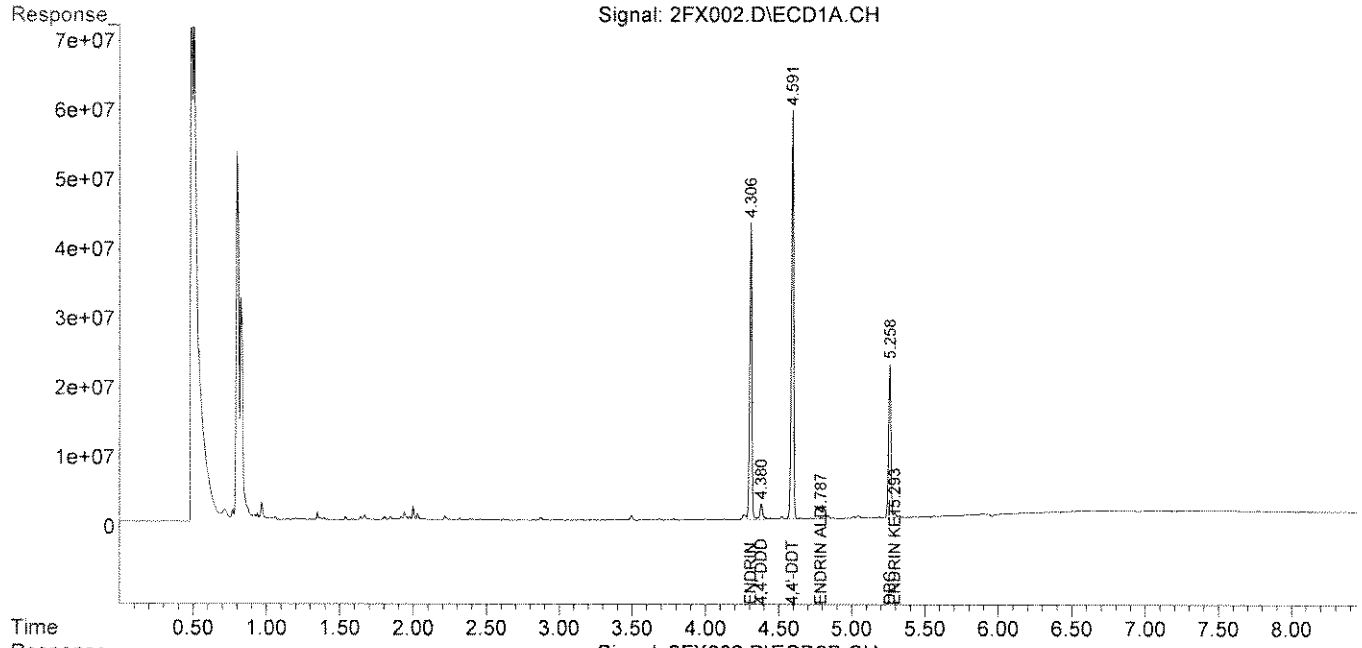
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

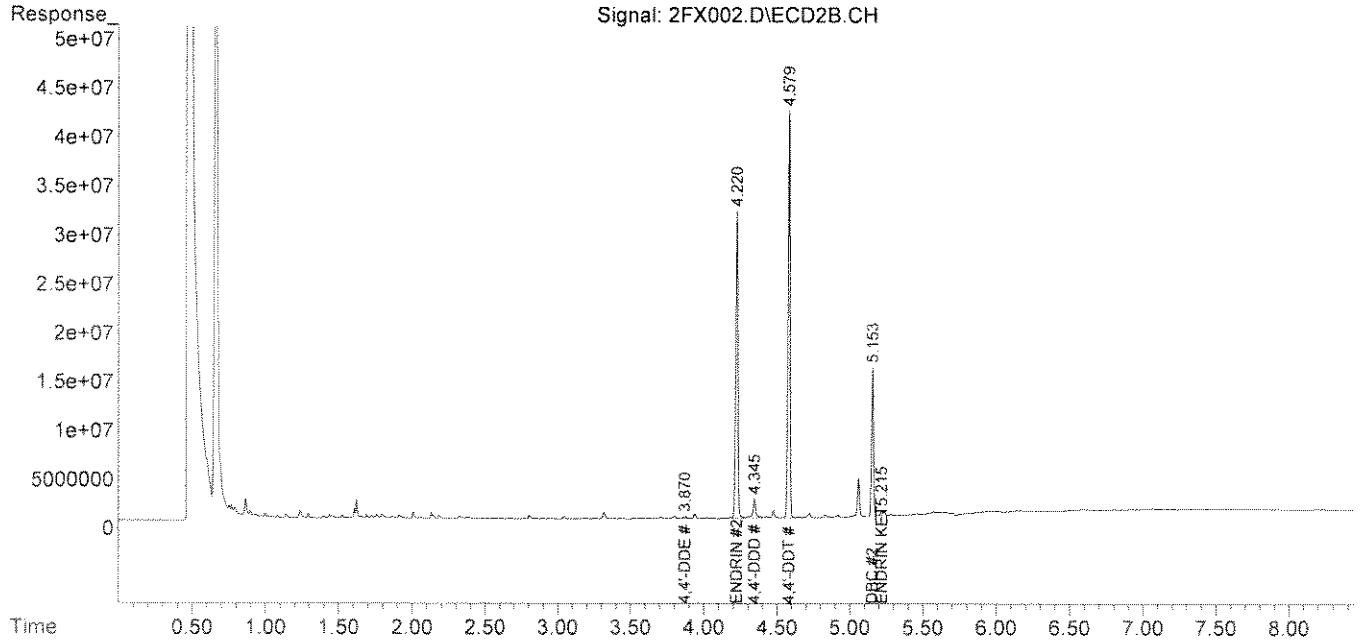
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 8:15
Operator : RC
Sample : AA24761-PEM1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 08:44:21 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 8:27
Operator : RC
Sample : AA24761-CCV1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 08:43:33 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.258	5.155	464.0E6	262.9E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.975	1.858	630.6E6	506.1E6	0.1036	0.1002
3)	ALPHA-BHC	2.326	2.221	874.1E6	648.8E6	0.1126	0.1129
4)	GAMMA-BHC...	2.538	2.448	637.6E6	477.7E6	0.1078	0.1006
5)	BETA-BHC	2.602	2.513	277.0E6	223.9E6	0.0996	0.1002
6)	DELTA-BHC	2.727	2.711	792.5E6	602.5E6	0.1139	0.1147
7)	HEPTACHLOR	2.879	2.740	607.4E6	420.3E6	0.1035	0.0945
8)	ALDRIN	3.106	2.972	830.3E6	583.6E6	0.1027	0.0968
9)	ISODRIN	3.368	3.274	623.6E6	477.5E6	0.1061	0.0982
10)	HEPTACHLO...	3.594	3.423	570.2E6	482.5E6	0.0966	0.0998
11)	GAMMA CHL...	3.701	3.580	609.3E6	458.7E6	0.1030	0.0979
12)	ALPHA CHL...	3.815	3.703	587.4E6	480.9E6	0.1000	0.0956
13)	4,4'-DDE	3.895	3.871	886.1E6	619.7E6	0.1073	0.0963
14)	ENDOSULFAN I	3.926	3.745	583.9E6	443.1E6	0.1028	0.0979
15)	DIELDRIN	4.124	3.979	645.0E6	489.1E6	0.1090	0.1014
16)	ENDRIN	4.307	4.223	609.0E6	437.7E6	0.1069	0.0923
17)	4,4'-DDD	4.379	4.346	478.2E6	373.7E6	0.0966	0.0976
18)	ENDOSULFAN 2	4.481	4.396	481.0E6	371.7E6	0.0987	0.0897
19)	4,4'-DDT	4.592	4.580	421.2E6	282.9E6	0.1049	0.0892
20)	ENDRIN AL...	4.793	4.654	369.2E6	301.5E6	0.0959	0.0899
21)	METHOXYCHLOR	4.957	5.088	194.1E6	137.2E6	0.0988	0.0851
22)	MIREX	5.028	5.169	341.3E6	231.2E6	0.0876	0.0720
23)	ENDOSULFA...	5.102	4.855	416.0E6	341.2E6	0.0932	0.0863
24)	ENDRIN KE...	5.292	5.216	472.6E6	373.0E6	0.0907	0.0851
25)	DECACHLOR...	5.968	6.022	389.4E6	431.1E6	0.0869	0.0910

SemiQuant Compounds - Not Calibrated on this Instrument

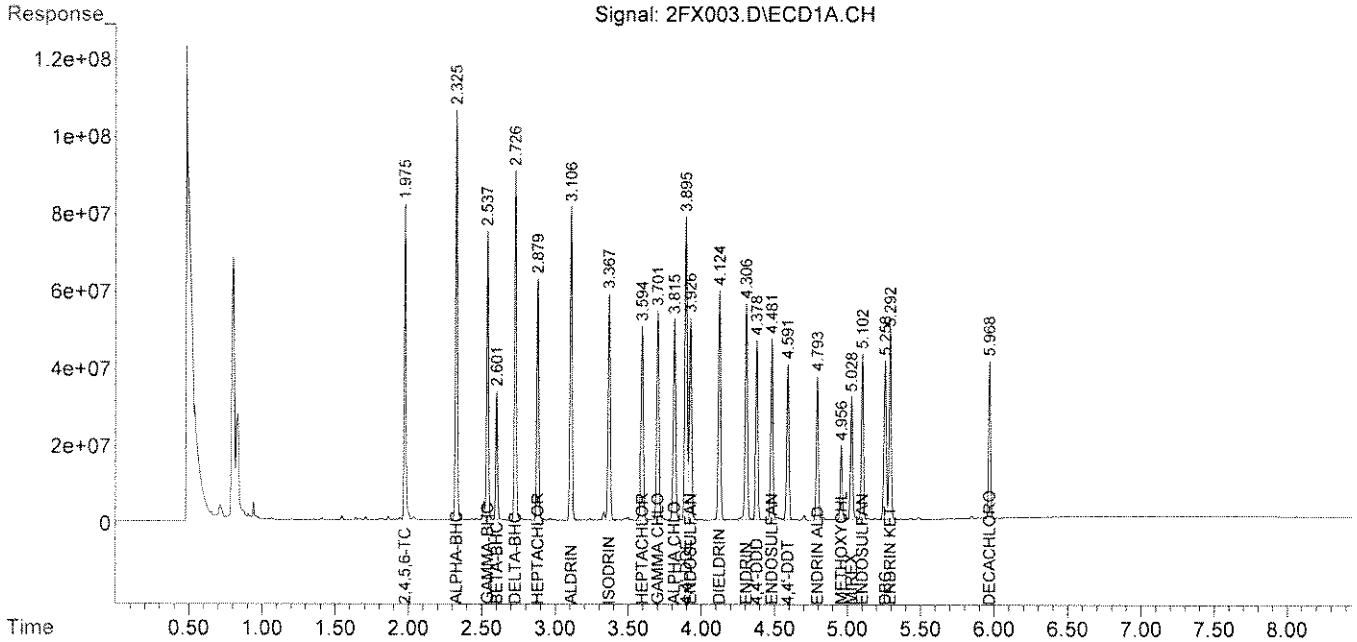
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

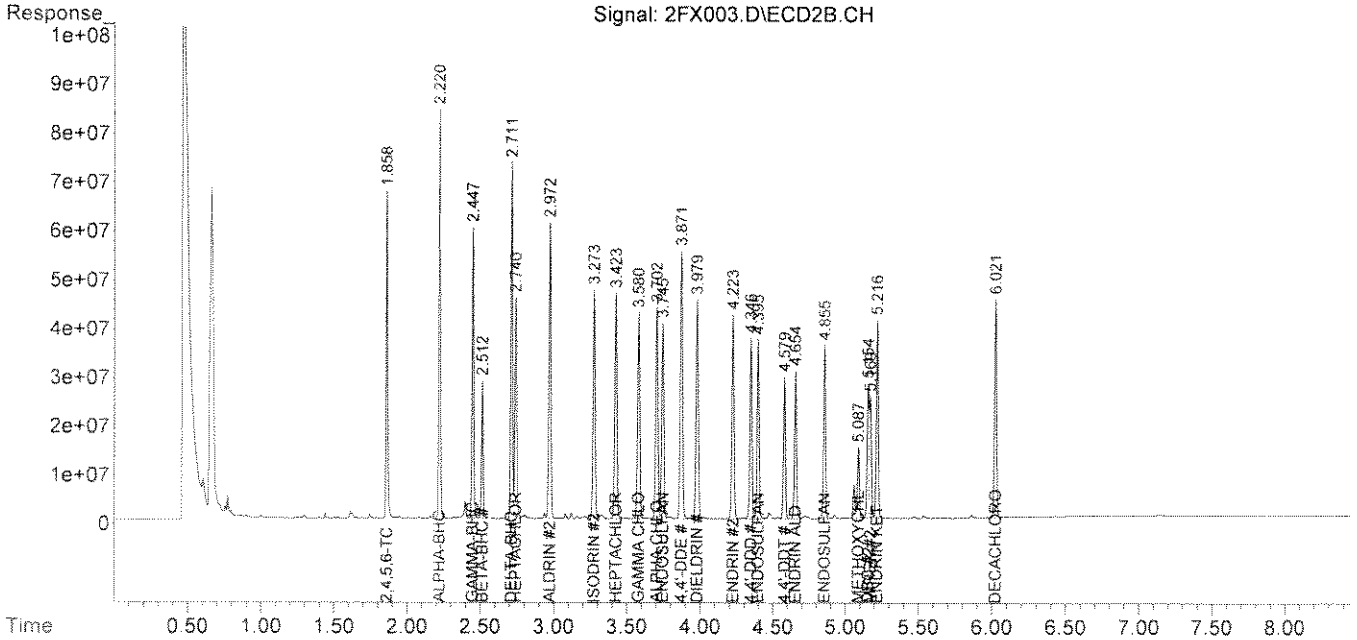
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 8:27
Operator : RC
Sample : AA24761-CCV1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 08:43:33 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:11
Operator : RC
Sample : 3F27008-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:21:15 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.260	5.156	352.6E6	193.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.975	1.858	611.2E6	509.7E6	0.1322	0.1371
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.969	6.023	453.2E6	472.1E6	0.1331	0.1355

SemiQuant Compounds - Not Calibrated on this Instrument

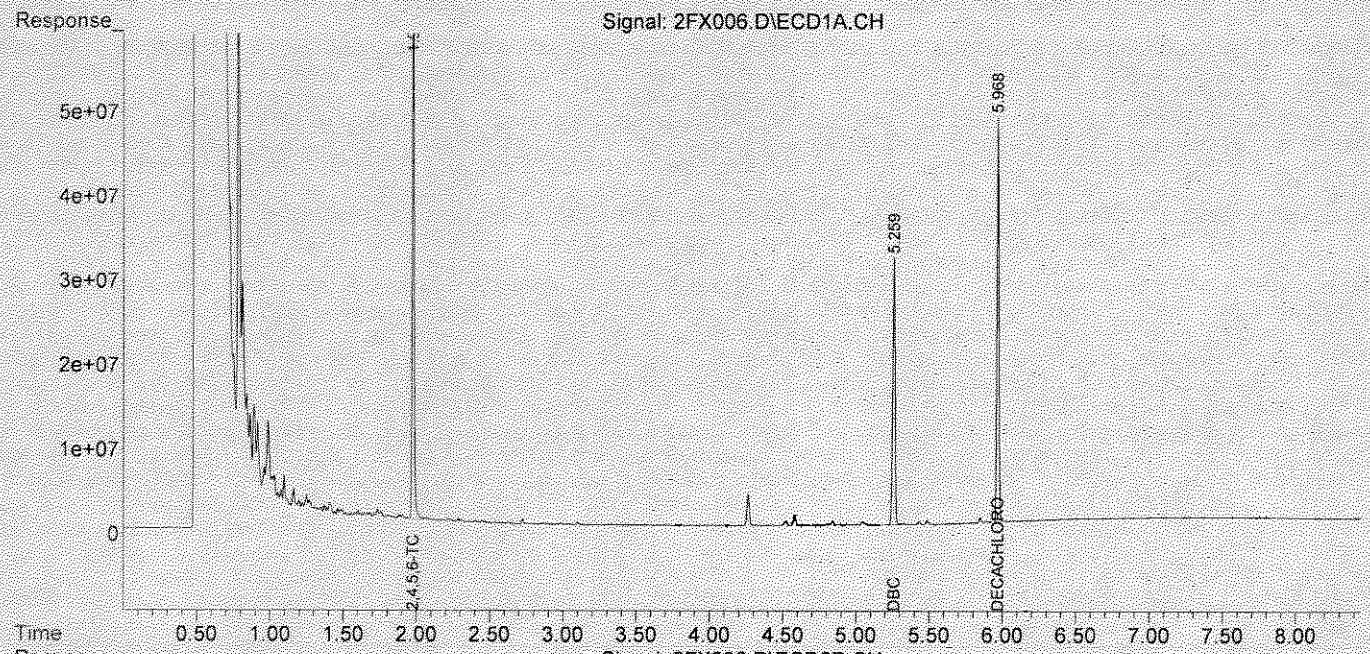
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

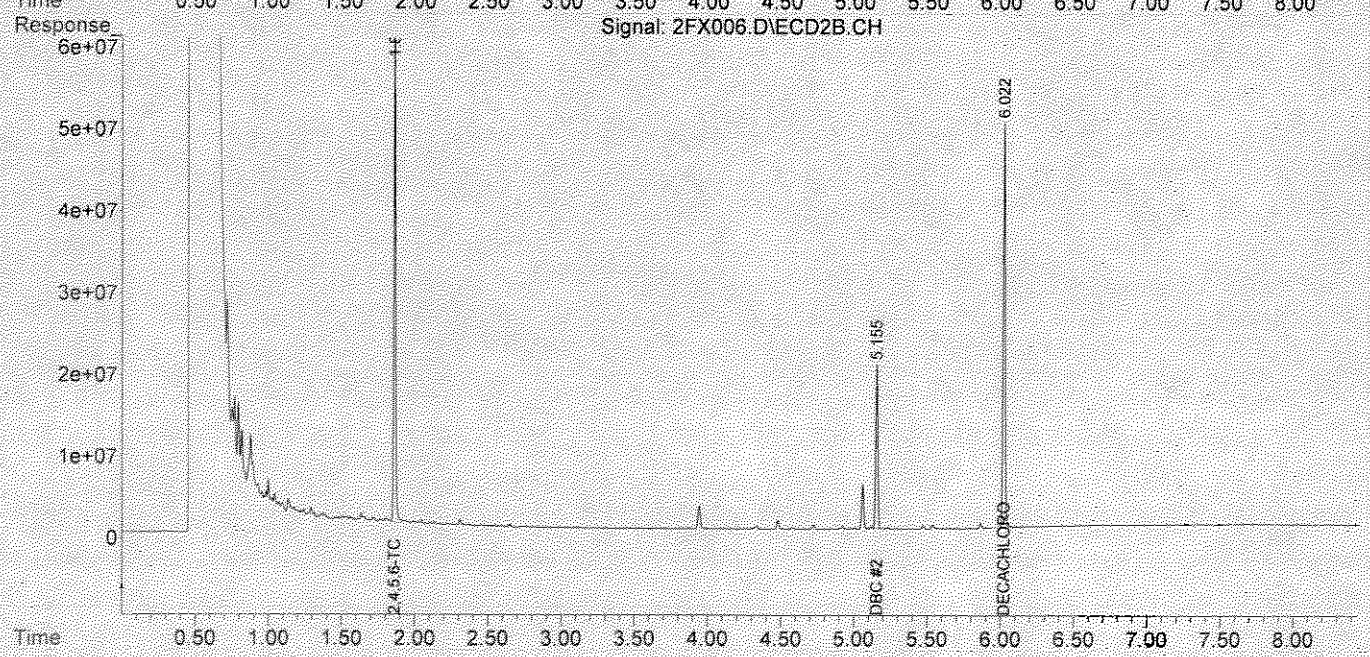
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:11
Operator : RC
Sample : 3F27008-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:21:15 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:23
Operator : RC
Sample : 3F27008-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:39:47 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.260	5.157	395.3E6	224.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.979	1.861	616.1E6	504.8E6	0.1189	0.1170
3)	ALPHA-BHC	2.330	2.224	826.7E6	621.6E6	0.1248	0.1267
4)	GAMMA-BHC...	2.541	2.452	520.3E6	395.5E6	0.1033	0.0975
5)	BETA-BHC	2.605	2.516	255.6E6	203.0E6	0.1079	0.1064
6)	DELTA-BHC	2.731	2.715	722.2E6	560.7E6	0.1216	0.1250
7)	HEPTACHLOR	2.883	2.744	466.4E6	336.0E6	0.0933	0.0885
8)	ALDRIN	3.110	2.976	834.7E6	589.2E6	0.1211	0.1145
9)	ISODRIN	3.372	3.278	617.1E6	478.9E6	0.1233	0.1153
10)	HEPTACHLO...	3.599	3.428	536.7E6	463.3E6	0.1067	0.1122
11)	GAMMA CHL...	3.706	3.584	560.7E6	424.3E6	0.1113	0.1060
12)	ALPHA CHL...	3.819	3.708	551.3E6	464.4E6	0.1101	0.1081
13)	4,4'-DDE	3.899	3.876	859.2E6	602.3E6	0.1222	0.1096
14)	ENDOSULFAN I	3.931	3.750	546.5E6	419.5E6	0.1130	0.1085
15)	DIELDRIN	4.128	3.984	608.8E6	470.1E6	0.1208	0.1142
16)	ENDRIN	4.310	4.228	553.6E6	405.3E6	0.1140	0.0995
17)	4,4'-DDD	4.382	4.350	420.8E6	347.7E6	0.0998	0.1063
18)	ENDOSULFAN 2	4.484	4.400	406.3E6	326.8E6	0.0978	0.0924
19)	4,4'-DDT	4.594	4.583	313.2E6	213.7E6	0.0916	0.0790
20)	ENDRIN AL...	4.796	4.658	306.5E6	258.7E6	0.0934	0.0903
21)	METHOXYCHLOR	4.960	5.091	147.2E6	104.5E6	0.0880	0.0759
22)	MIREX	5.031	5.172	272.7E6	177.2E6	0.0819	0.0646
23)	ENDOSULFA...	5.105	4.859	332.7E6	281.8E6	0.0875	0.0834
24)	ENDRIN KE...	5.294	5.220	362.9E6	292.6E6	0.0818	0.0782
25)	DECACHLOR...	5.969	6.024	385.5E6	396.2E6	0.1010	0.0980

SemiQuant Compounds - Not Calibrated on this Instrument

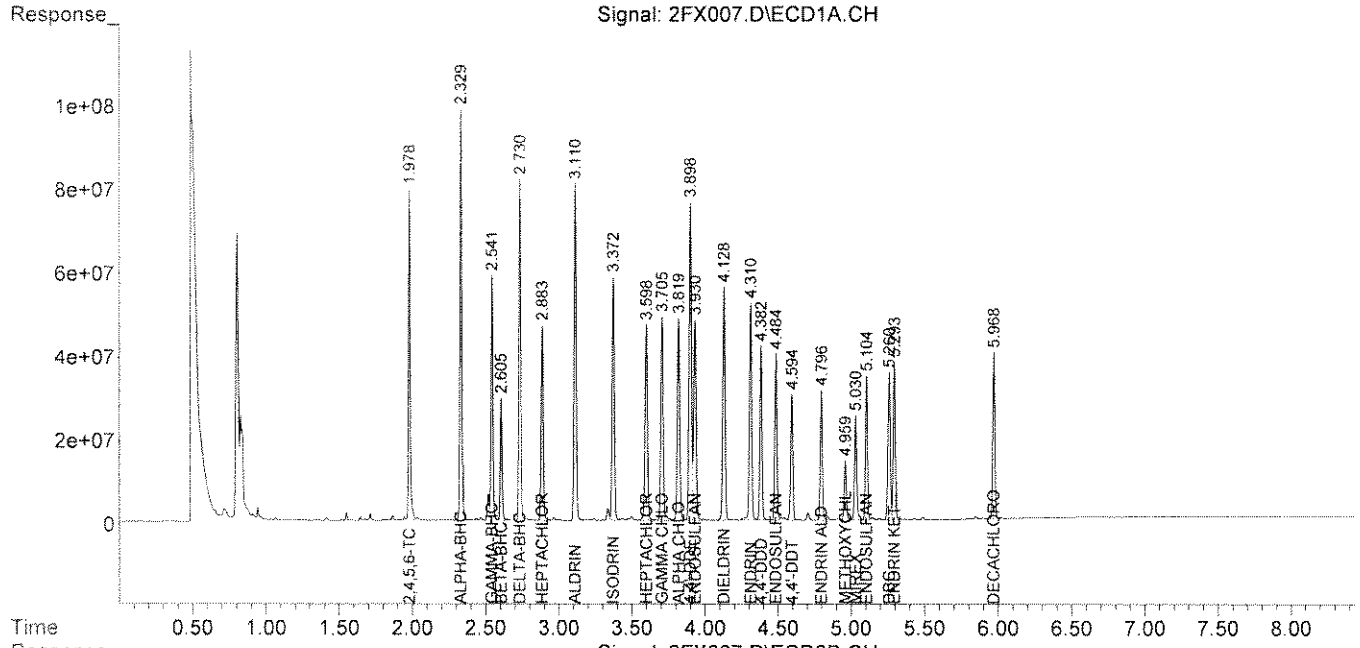
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

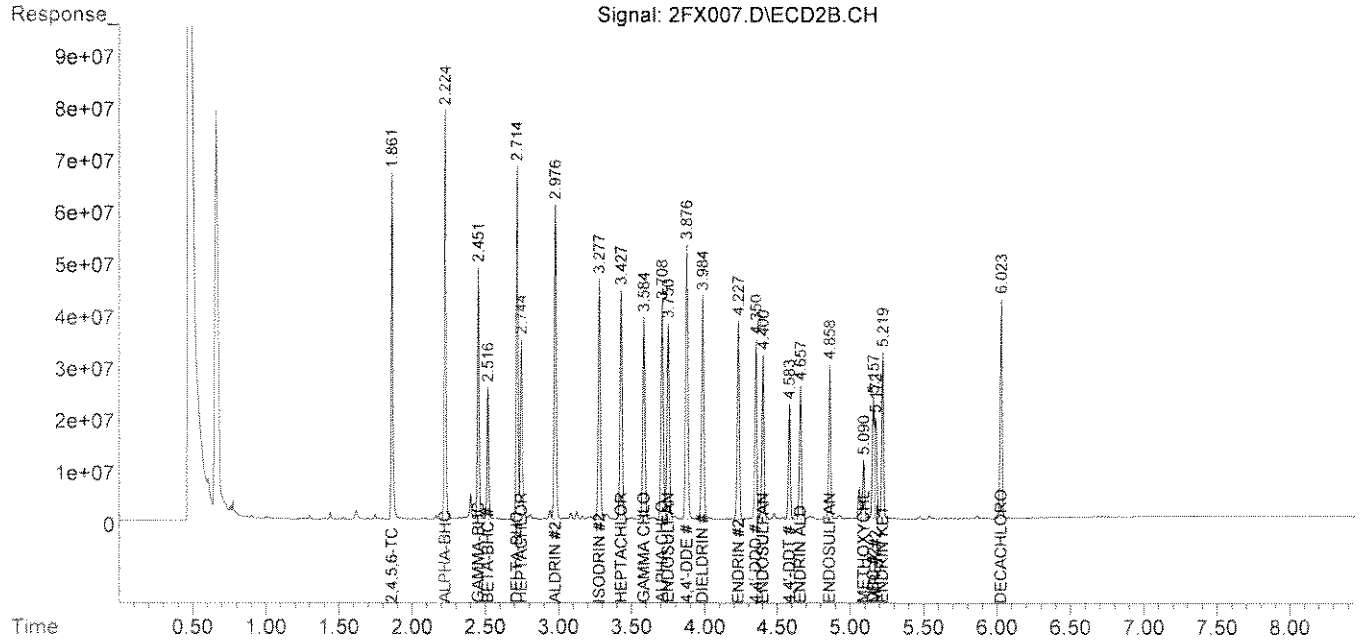
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:23
Operator : RC
Sample : 3F27008-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:39:47 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:35
Operator : RC
Sample : 3F27008-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:57:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.261	5.158	386.4E6	223.1E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.980	1.863	588.3E6	485.7E6	0.1161	0.1133
3)	ALPHA-BHC	2.331	2.226	784.3E6	596.8E6	0.1211	0.1224
4)	GAMMA-BHC...	2.543	2.453	504.7E6	390.0E6	0.1025	0.0968
5)	BETA-BHC	2.607	2.518	243.9E6	198.9E6	0.1053	0.1049
6)	DELTA-BHC	2.732	2.716	701.9E6	548.7E6	0.1209	0.1231
7)	HEPTACHLOR	2.884	2.746	468.4E6	335.8E6	0.0959	0.0890
8)	ALDRIN	3.111	2.977	802.7E6	567.8E6	0.1191	0.1110
9)	ISODRIN	3.373	3.279	591.6E6	461.0E6	0.1209	0.1117
10)	HEPTACHLO...	3.600	3.429	514.9E6	444.6E6	0.1047	0.1084
11)	GAMMA CHL...	3.707	3.586	537.7E6	407.8E6	0.1091	0.1025
12)	ALPHA CHL...	3.821	3.710	526.8E6	446.6E6	0.1076	0.1047
13)	4,4'-DDE	3.900	3.877	857.9E6	596.9E6	0.1248	0.1093
14)	ENDOSULFAN I	3.932	3.752	521.3E6	401.4E6	0.1102	0.1045
15)	DIELDRIN	4.129	3.985	585.1E6	452.2E6	0.1188	0.1105
16)	ENDRIN	4.311	4.228	531.1E6	391.3E6	0.1119	0.0969
17)	4,4'-DDD	4.383	4.351	414.0E6	343.2E6	0.1004	0.1056
18)	ENDOSULFAN 2	4.485	4.401	394.4E6	316.5E6	0.0971	0.0900
19)	4,4'-DDT	4.596	4.584	313.2E6	214.1E6	0.0936	0.0796
20)	ENDRIN AL...	4.797	4.659	304.7E6	257.5E6	0.0950	0.0905
21)	METHOXYCHLOR	4.960	5.091	146.5E6	103.8E6	0.0896	0.0759
22)	MIREX	5.032	5.173	272.5E6	174.2E6	0.0838	0.0639
23)	ENDOSULFA...	5.106	4.859	329.9E6	278.7E6	0.0887	0.0831
24)	ENDRIN KE...	5.295	5.220	366.9E6	294.2E6	0.0846	0.0791
25)	DECACHLOR...	5.969	6.024	404.4E6	411.7E6	0.1084	0.1025

SemiQuant Compounds - Not Calibrated on this Instrument

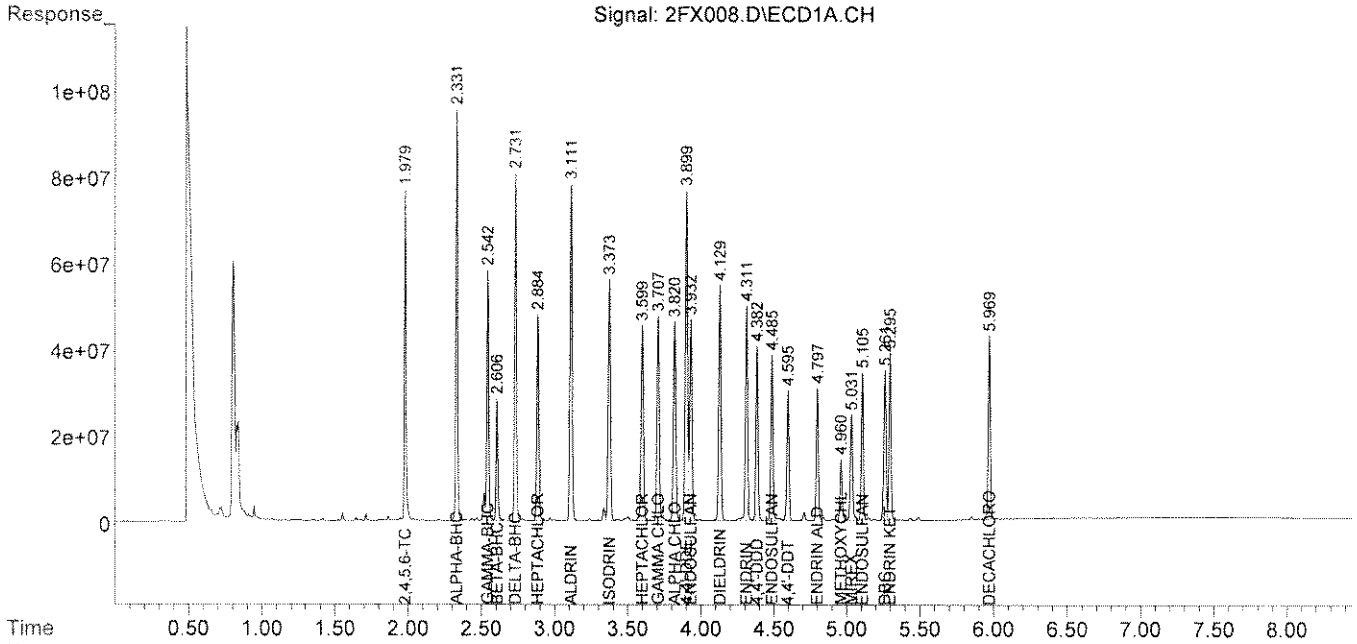
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

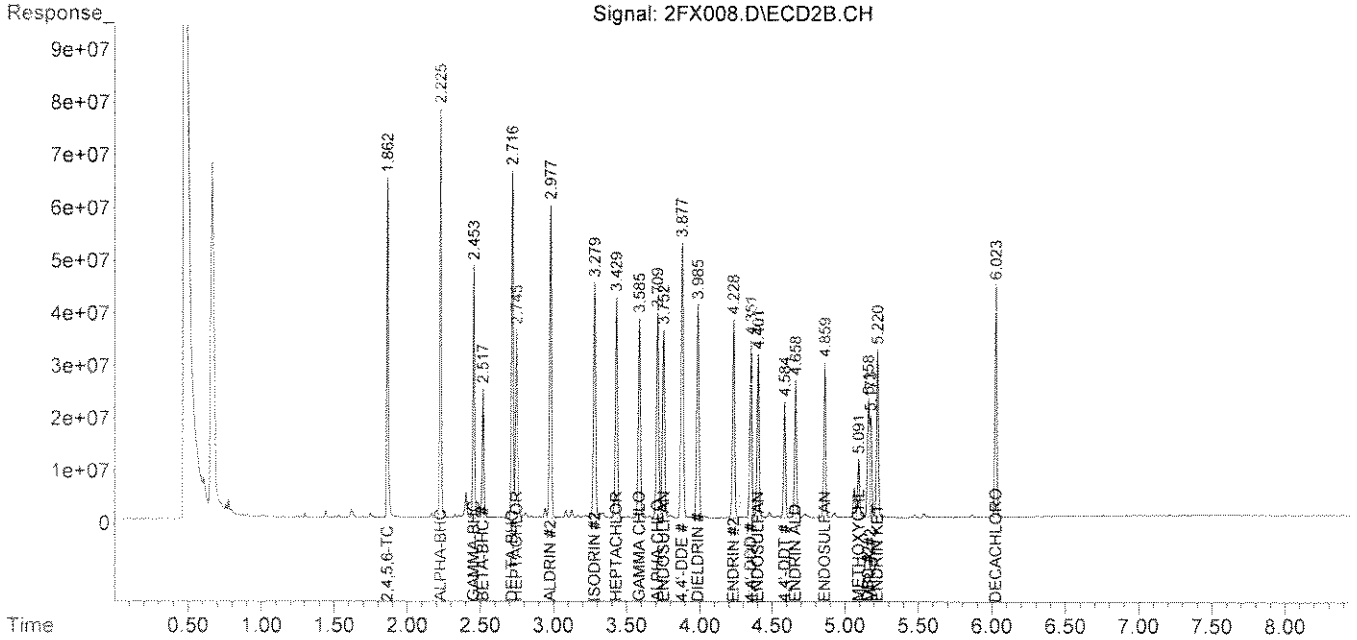
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:35
Operator : RC
Sample : 3F27008-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:57:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:47
Operator : RC
Sample : 3F28005-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:58:24 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.260	5.157	387.4E6	214.5E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.976	1.860	626.2E6	523.5E6	0.1233	0.1270
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.969	6.024	485.3E6	503.4E6	0.1298	0.1303

SemiQuant Compounds - Not Calibrated on this Instrument

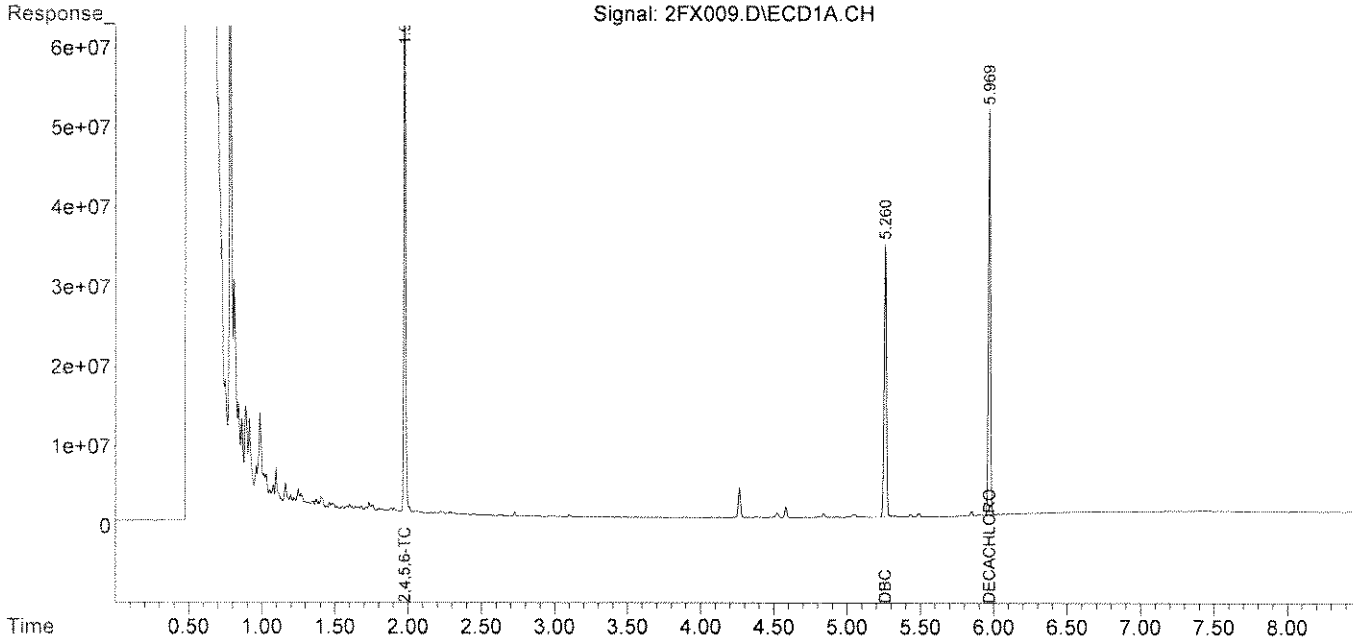
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

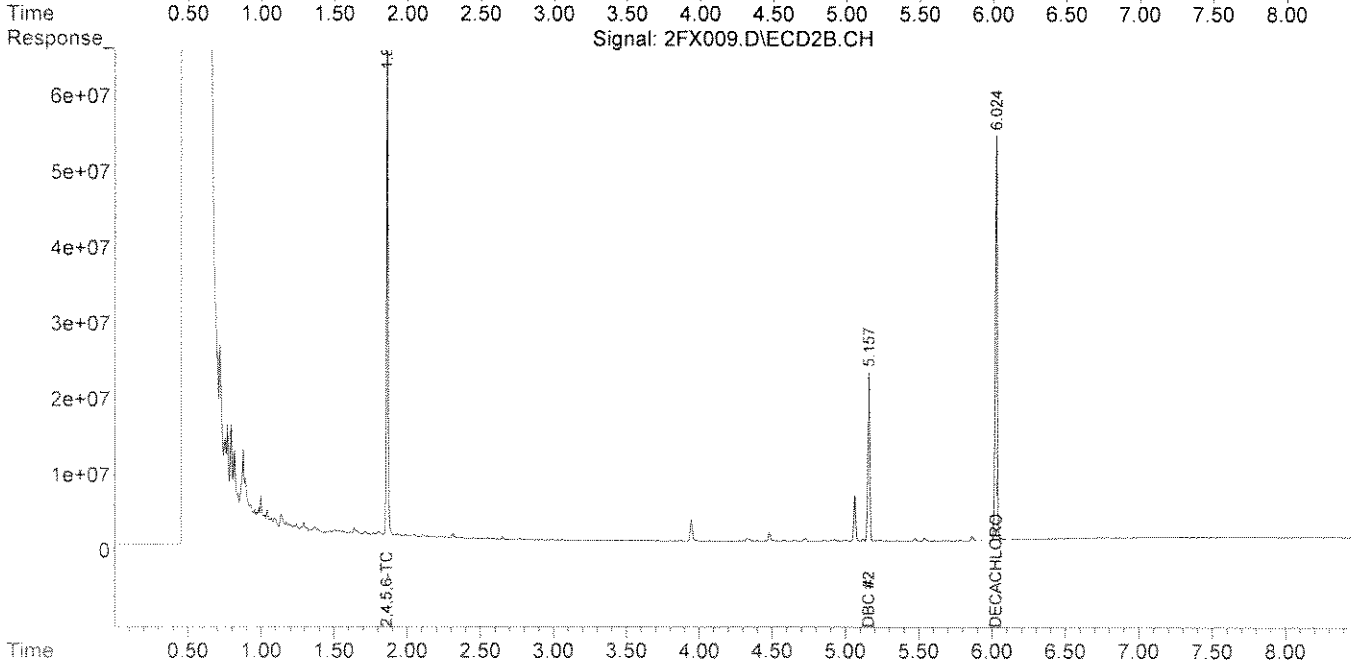
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:47
Operator : RC
Sample : 3F28005-BLK1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 09:58:24 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:59
Operator : RC
Sample : 3F28005-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:01:32 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.262	5.159	432.4E6	247.3E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.980	1.863	635.9E6	521.4E6	0.1121	0.1097
3)	ALPHA-BHC	2.332	2.227	855.7E6	647.3E6	0.1182	0.1198
4)	GAMMA-BHC...	2.544	2.454	558.0E6	426.9E6	0.1012	0.0956
5)	BETA-BHC	2.607	2.519	266.5E6	217.0E6	0.1029	0.1032
6)	DELTA-BHC	2.733	2.717	767.5E6	599.7E6	0.1182	0.1213
7)	HEPTACHLOR	2.886	2.747	506.3E6	365.3E6	0.0926	0.0873
8)	ALDRIN	3.113	2.979	865.9E6	613.9E6	0.1149	0.1082
9)	ISODRIN	3.375	3.281	641.1E6	500.6E6	0.1171	0.1094
10)	HEPTACHLO...	3.601	3.430	551.5E6	482.9E6	0.1002	0.1062
11)	GAMMA CHL...	3.709	3.588	589.7E6	448.6E6	0.1070	0.1017
12)	ALPHA CHL...	3.822	3.711	574.5E6	488.0E6	0.1049	0.1032
13)	4,4'-DDE	3.902	3.879	905.5E6	630.0E6	0.1177	0.1041
14)	ENDOSULFAN I	3.933	3.753	566.4E6	438.9E6	0.1070	0.1030
15)	DIELDRIN	4.131	3.987	637.4E6	494.9E6	0.1156	0.1091
16)	ENDRIN	4.313	4.230	581.3E6	430.3E6	0.1094	0.0961
17)	4,4'-DDD	4.384	4.353	464.9E6	384.9E6	0.1007	0.1068
18)	ENDOSULFAN 2	4.487	4.403	440.0E6	352.9E6	0.0968	0.0905
19)	4,4'-DDT	4.597	4.585	349.8E6	240.1E6	0.0935	0.0805
20)	ENDRIN AL...	4.799	4.660	341.7E6	287.6E6	0.0952	0.0911
21)	METHOXYCHLOR	4.962	5.092	164.0E6	116.4E6	0.0896	0.0767
22)	MIREX	5.033	5.174	300.8E6	193.1E6	0.0826	0.0640
23)	ENDOSULFA...	5.107	4.861	367.5E6	310.1E6	0.0883	0.0833
24)	ENDRIN KE...	5.296	5.221	402.8E6	324.7E6	0.0830	0.0788
25)	DECACHLOR...	5.970	6.025	431.4E6	442.7E6	0.1033	0.0994

SemiQuant Compounds - Not Calibrated on this Instrument

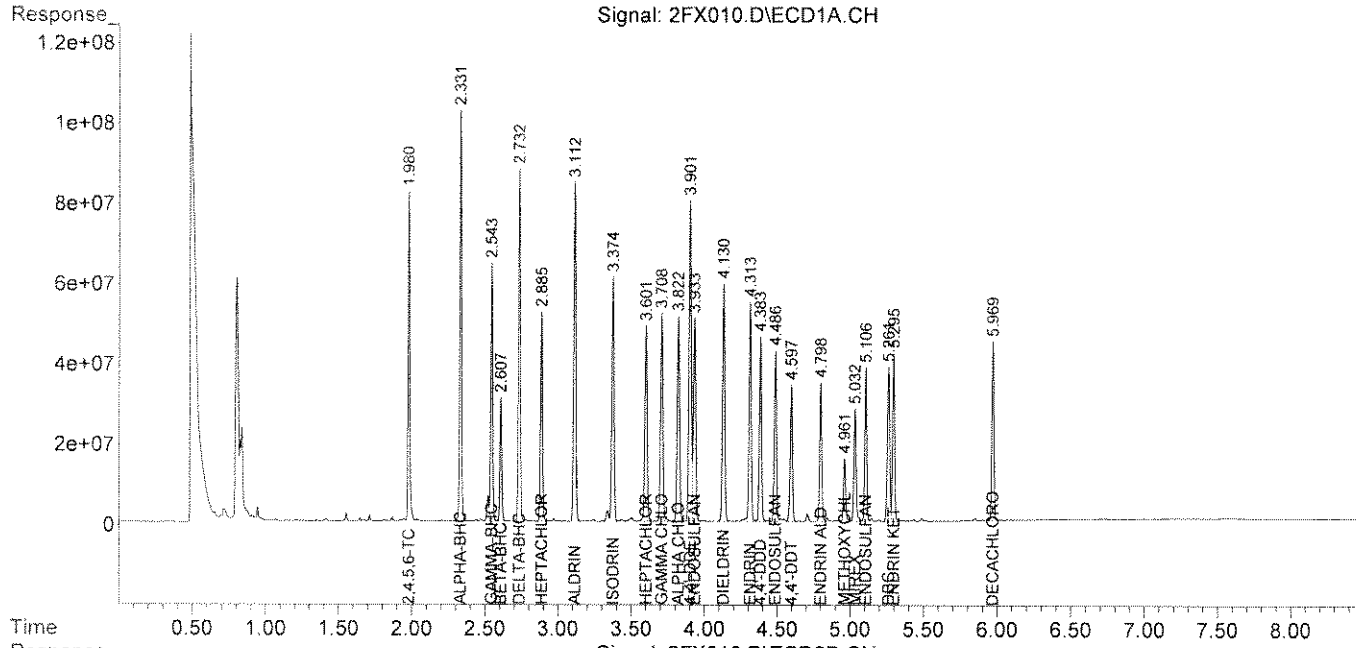
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

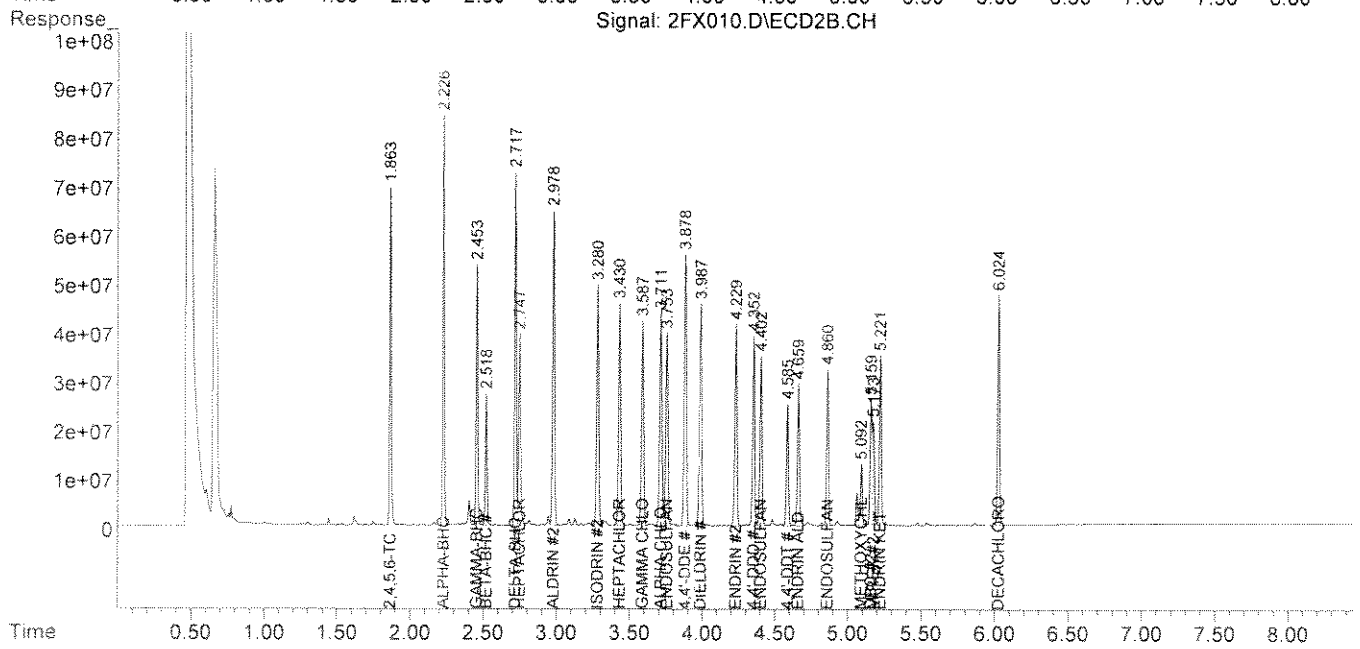
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 9:59
Operator : RC
Sample : 3F28005-BS1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:01:32 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:12
Operator : RC
Sample : 3F28005-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:01:37 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.261	5.159	492.0E6	283.3E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.980	1.863	661.4E6	534.6E6	0.1025	0.0982
3)	ALPHA-BHC	2.332	2.227	925.3E6	693.9E6	0.1124	0.1121
4)	GAMMA-BHC...	2.544	2.454	634.1E6	482.5E6	0.1011	0.0943
5)	BETA-BHC	2.608	2.519	291.5E6	236.2E6	0.0989	0.0980
6)	DELTA-BHC	2.733	2.718	825.2E6	641.5E6	0.1119	0.1133
7)	HEPTACHLOR	2.886	2.747	576.8E6	411.4E6	0.0927	0.0858
8)	ALDRIN	3.113	2.979	916.9E6	651.1E6	0.1069	0.1002
9)	ISODRIN	3.375	3.281	683.9E6	533.6E6	0.1098	0.1018
10)	HEPTACHLO...	3.601	3.431	598.1E6	524.2E6	0.0955	0.1006
11)	GAMMA CHL...	3.708	3.588	654.5E6	496.7E6	0.1043	0.0983
12)	ALPHA CHL...	3.822	3.711	631.9E6	533.4E6	0.1014	0.0984
13)	4,4'-DDE	3.901	3.879	935.5E6	648.3E6	0.1068	0.0935
14)	ENDOSULFAN I	3.933	3.753	620.7E6	479.4E6	0.1030	0.0982
15)	DIELDRIN	4.131	3.987	694.2E6	538.0E6	0.1107	0.1035
16)	ENDRIN	4.313	4.230	635.1E6	469.8E6	0.1051	0.0919
17)	4,4'-DDD	4.384	4.353	502.7E6	412.0E6	0.0958	0.0998
18)	ENDOSULFAN 2	4.486	4.403	491.5E6	391.2E6	0.0951	0.0876
19)	4,4'-DDT	4.597	4.585	404.8E6	277.5E6	0.0951	0.0812
20)	ENDRIN AL...	4.798	4.660	378.8E6	318.4E6	0.0927	0.0881
21)	METHOXYCHLOR	4.961	5.093	186.3E6	133.8E6	0.0894	0.0769
22)	MIREX	5.033	5.174	337.1E6	216.9E6	0.0812	0.0627
23)	ENDOSULFA...	5.107	4.860	411.1E6	346.6E6	0.0868	0.0813
24)	ENDRIN KE...	5.296	5.222	457.9E6	368.5E6	0.0829	0.0780
25)	DECACHLOR...	5.969	6.024	453.5E6	458.0E6	0.0955	0.0897

SemiQuant Compounds - Not Calibrated on this Instrument

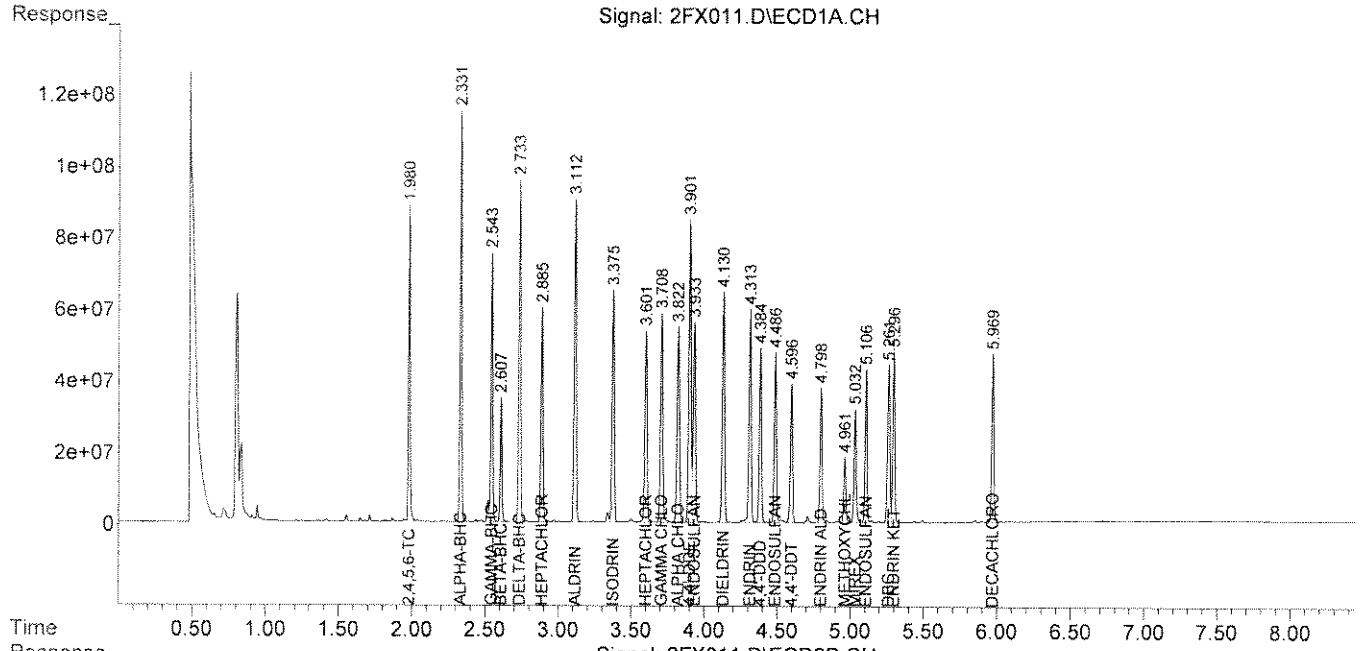
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

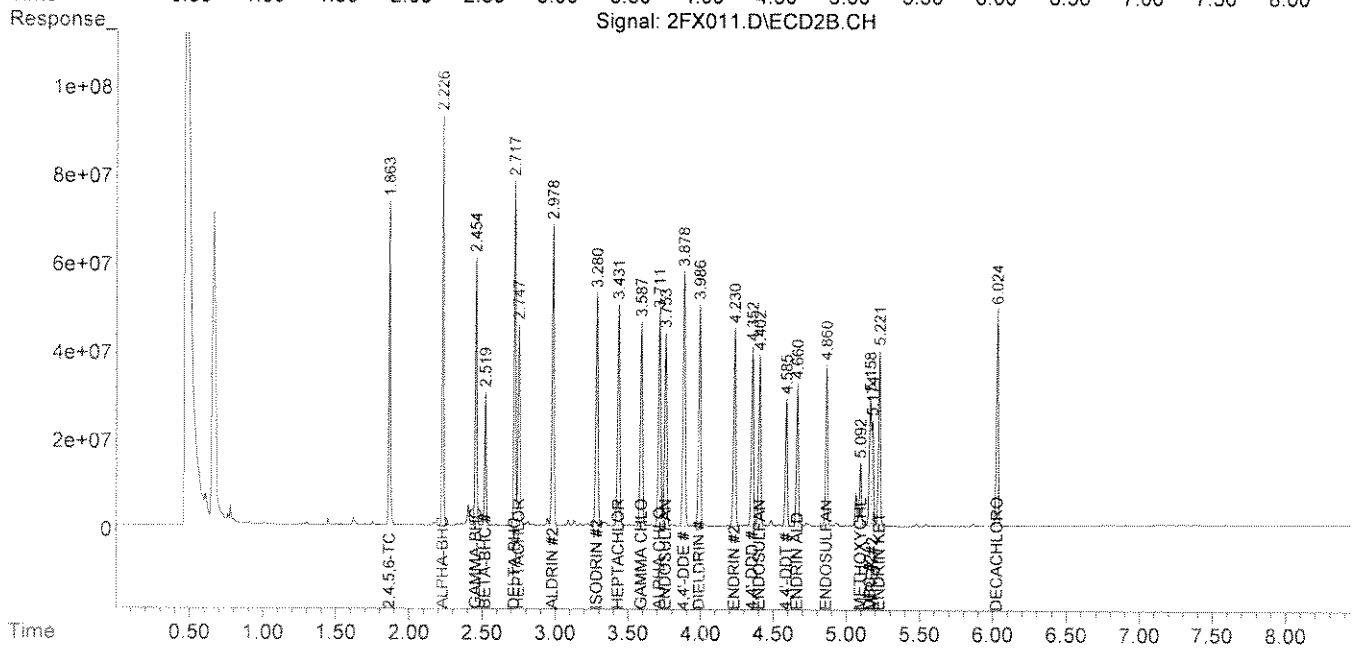
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:12
Operator : RC
Sample : 3F28005-BSD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:01:37 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:24
Operator : RC
Sample : 3F27011-BLK1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:03:00 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.262	5.159	467.7E6	260.4E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.978	1.862	623.5E6	528.0E6	0.1017	0.1055
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.970	6.025	471.2E6	474.5E6	0.1043	0.1012

SemiQuant Compounds - Not Calibrated on this Instrument

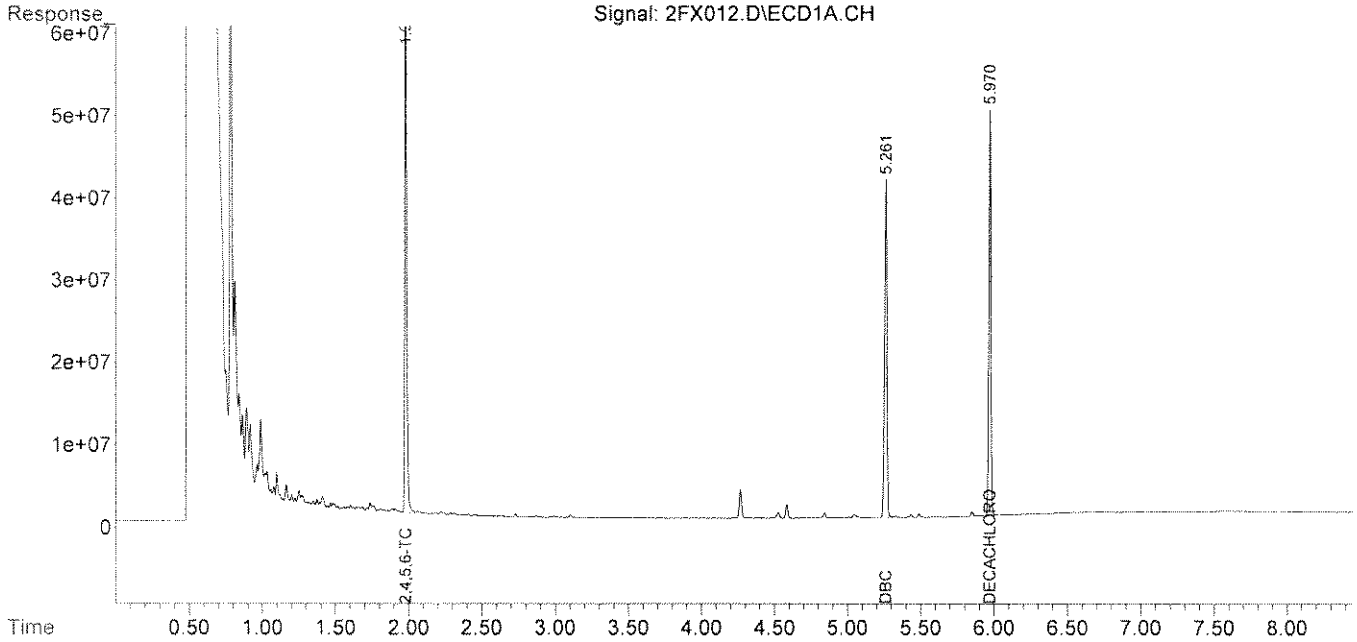
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

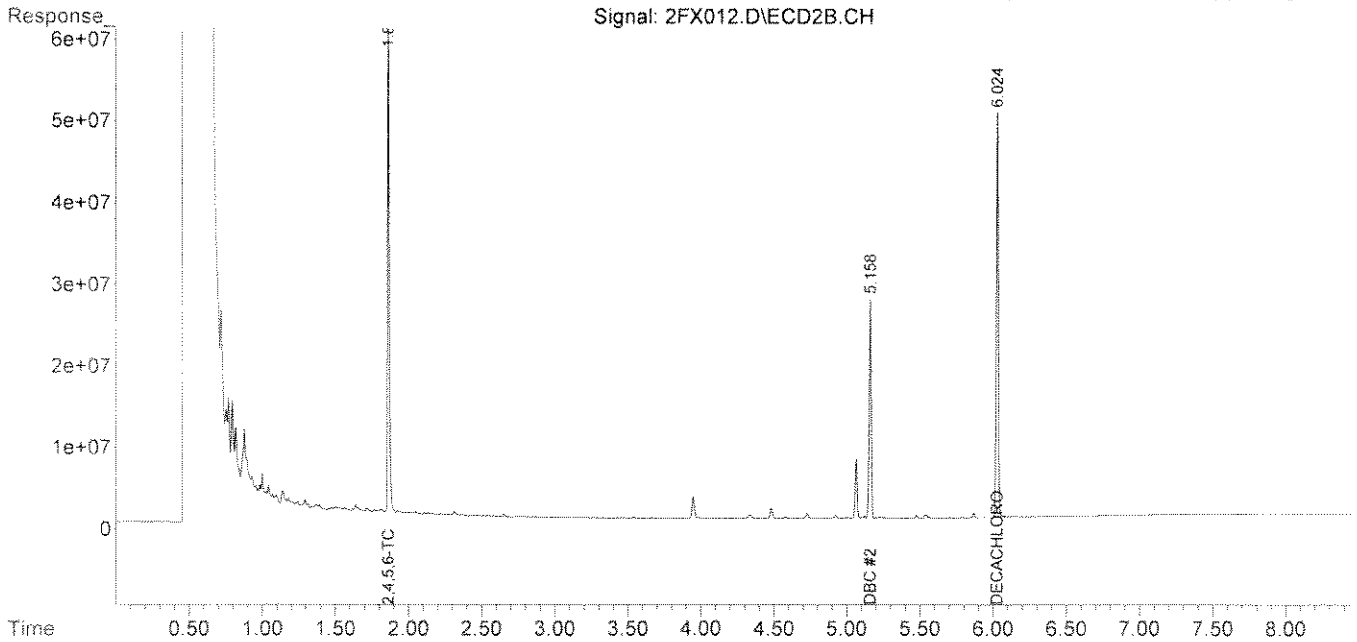
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:24
Operator : RC
Sample : 3F27011-BLK1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:03:00 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:36
Operator : RC
Sample : 3F27011-BLK2
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:03:20 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.263	5.160	431.6E6	239.1E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.978	1.862	645.8E6	543.7E6	0.1141	0.1183
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.971	6.026	480.7E6	495.5E6	0.1153	0.1150

SemiQuant Compounds - Not Calibrated on this Instrument

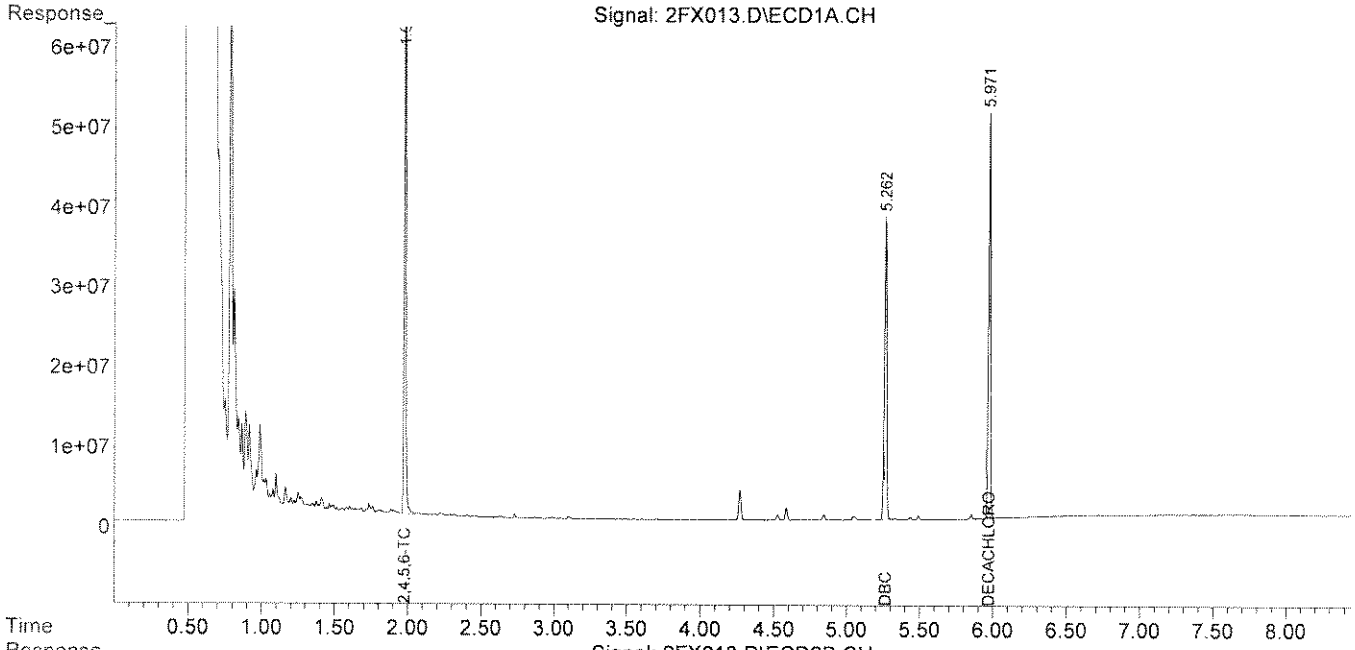
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

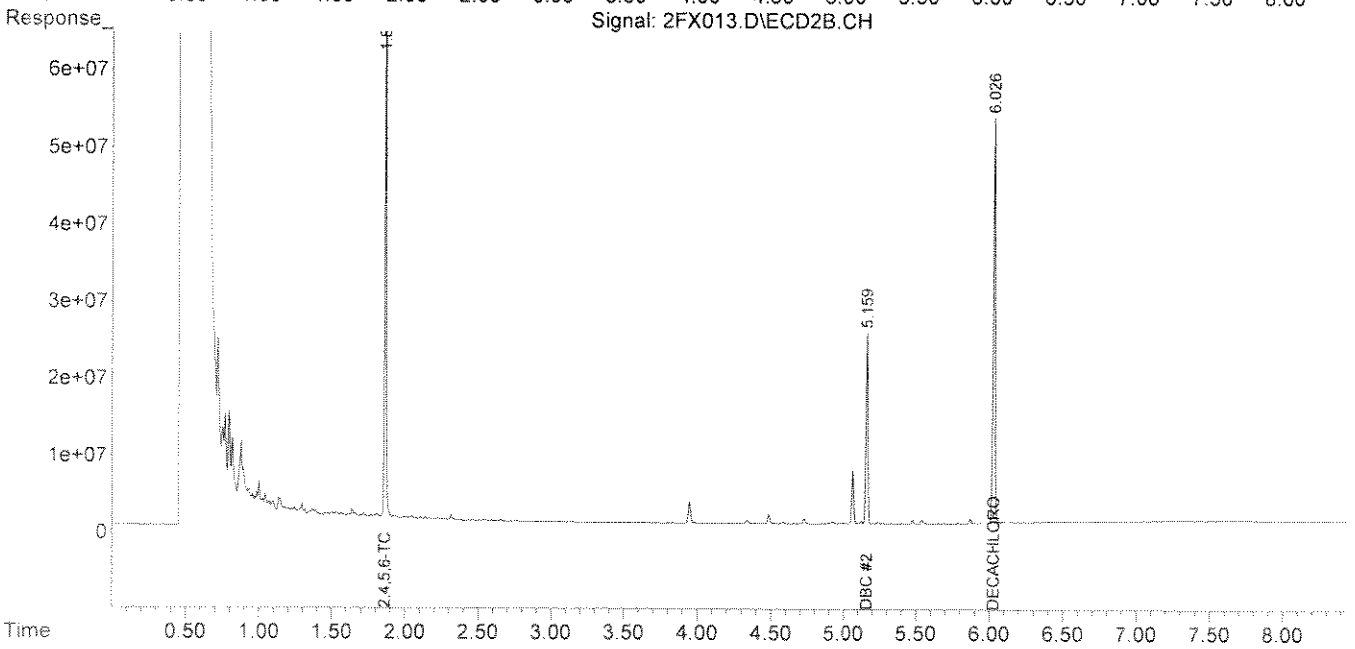
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:36
Operator : RC
Sample : 3F27011-BLK2
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:03:20 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:48
Operator : RC
Sample : 3F27011-BLK3
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:03:42 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.263	5.160	413.0E6	230.6E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.979	1.862	635.0E6	541.8E6	0.1173	0.1223
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.971	6.026	487.8E6	505.8E6	0.1223	0.1218

SemiQuant Compounds - Not Calibrated on this Instrument

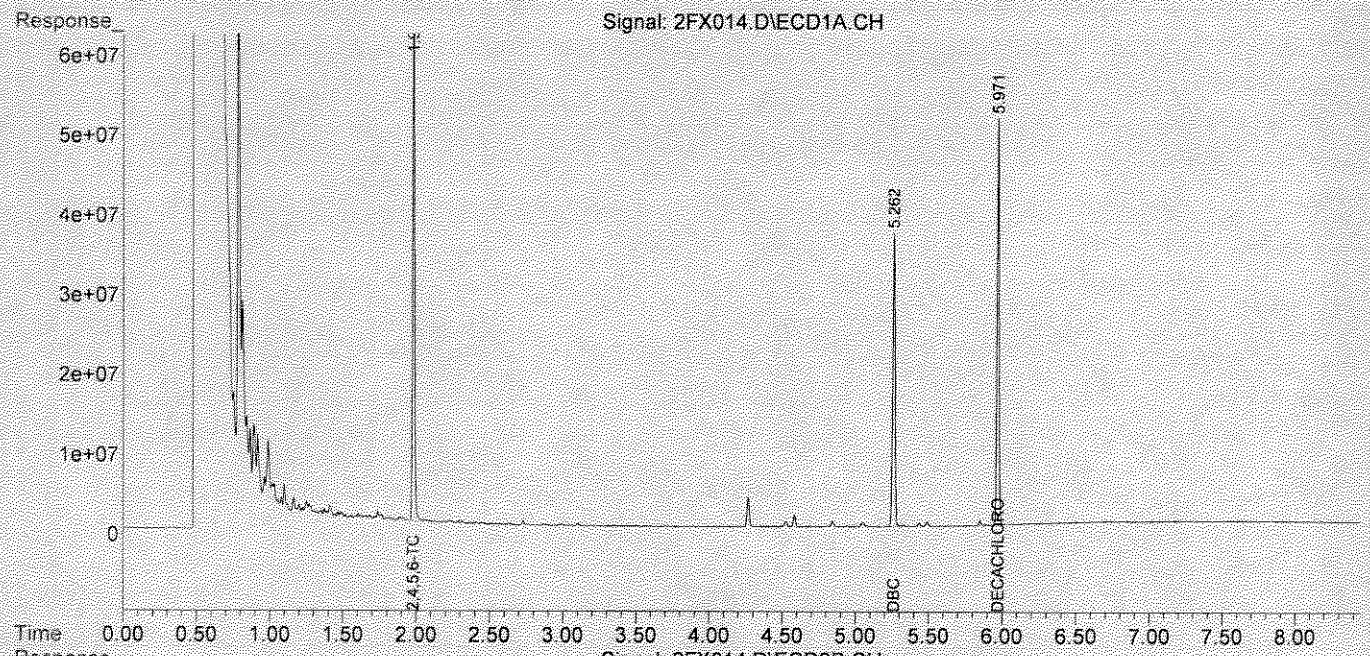
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

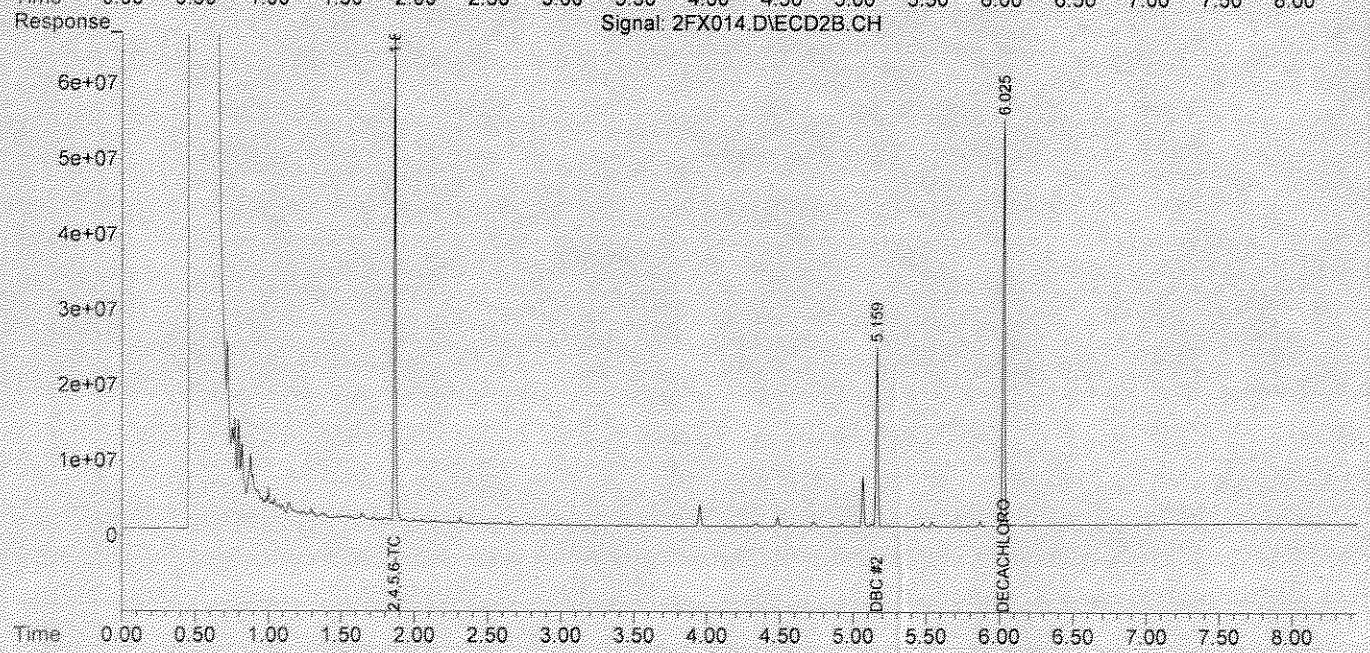
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 10:48
Operator : RC
Sample : 3F27011-BLK3
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:03:42 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 11:00
Operator : RC
Sample : 3F27011-BS1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:01:57 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.263	5.161	518.4E6	302.4E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	1.982	1.865	645.4E6	531.5E6	0.0950	0.0915	
3)	ALPHA-BHC	2.334	2.229	889.7E6	680.0E6	0.1027	0.1029	
4)	GAMMA-BHC...	2.546	2.456	611.3E6	470.1E6	0.0925	0.0860	
5)	BETA-BHC	2.610	2.521	288.1E6	235.5E6	0.0928	0.0916	
6)	DELTA-BHC	2.735	2.720	818.4E6	643.0E6	0.1055	0.1064	
7)	HEPTACHLOR	2.888	2.750	562.1E6	405.3E6	0.0858	0.0792	
8)	ALDRIN	3.116	2.982	896.3E6	646.9E6	0.0992	0.0933	
9)	ISODRIN	3.378	3.284	675.4E6	530.8E6	0.1029	0.0949	
10)	HEPTACHLO...	3.604	3.434	593.9E6	526.4E6	0.0900	0.0946	
11)	GAMMA CHL...	3.712	3.591	656.8E6	502.9E6	0.0994	0.0933	
12)	ALPHA CHL...	3.826	3.714	631.5E6	531.9E6	0.0962	0.0919	
13)	4,4'-DDE	3.905	3.882	931.3E6	651.3E6	0.1009	0.0880	
14)	ENDOSULFAN I	3.937	3.756	623.5E6	484.7E6	0.0983	0.0930	
15)	DIELDRIN	4.134	3.990	697.3E6	543.6E6	0.1055	0.0980	
16)	ENDRIN	4.316	4.233	642.3E6	477.8E6	0.1010	0.0879	
17)	4,4'-DDD	4.387	4.355	519.1E6	421.6E6	0.0939	0.0956	
18)	ENDOSULFAN 2	4.489	4.406	504.5E6	403.4E6	0.0926	0.0846	
19)	4,4'-DDT	4.599	4.588	405.5E6	279.1E6	0.0904	0.0765	
20)	ENDRIN AL...	4.801	4.662	404.3E6	335.8E6	0.0940	0.0870	
21)	METHOXYCHLOR	4.963	5.095	188.9E6	135.8E6	0.0861	0.0732	
22)	MIREX	5.035	5.176	343.8E6	217.2E6	0.0785	0.0588	#
23)	ENDOSULFA...	5.109	4.863	425.4E6	359.8E6	0.0853	0.0791	
24)	ENDRIN KE...	5.298	5.223	469.3E6	375.0E6	0.0807	0.0744	
25)	DECACHLOR...	5.971	6.026	478.3E6	482.8E6	0.0956	0.0886	

SemiQuant Compounds - Not Calibrated on this Instrument

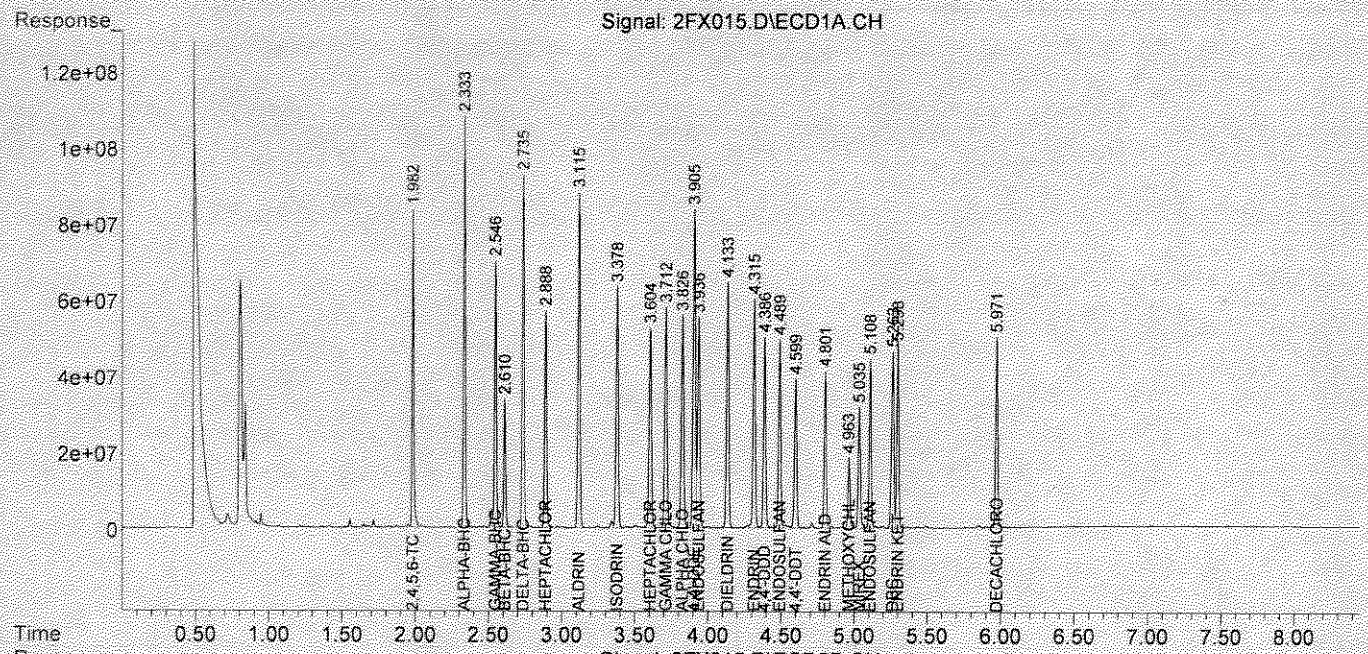
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

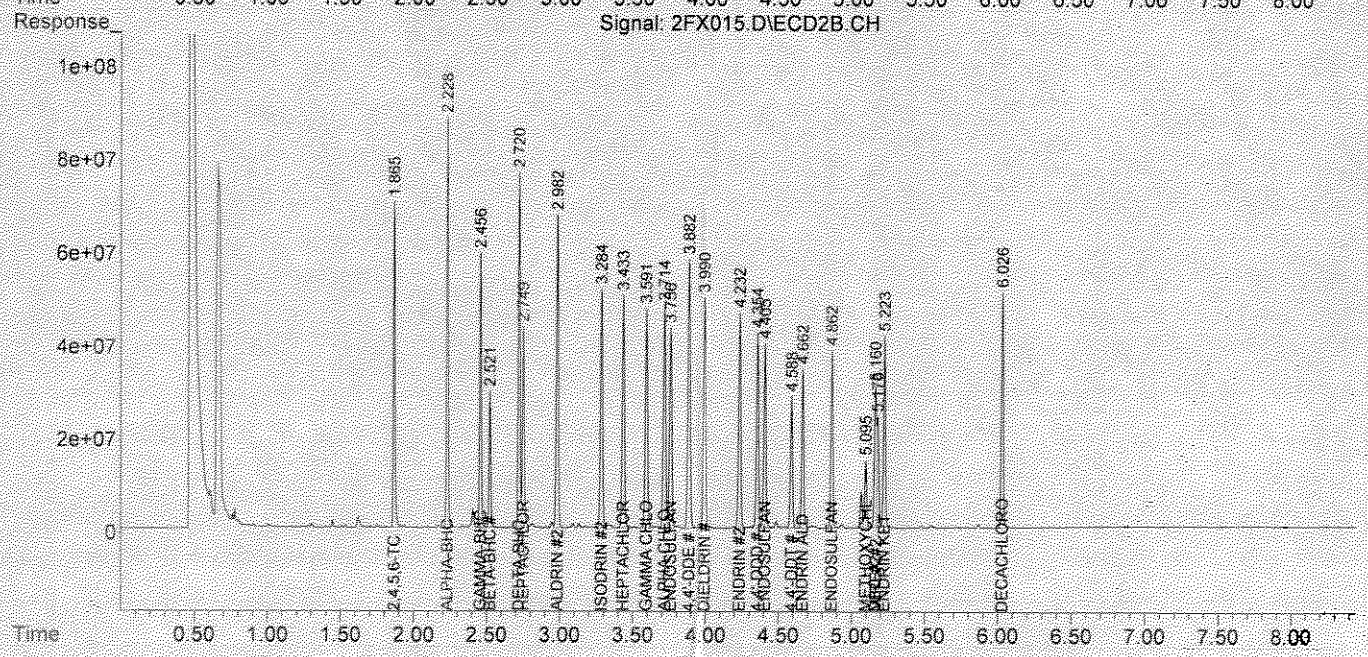
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 11:00
Operator : RC
Sample : 3F27011-BS1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:01:57 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 11:12
Operator : RC
Sample : 3F27011-BSD1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:02:02 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.264	5.161	494.0E6	289.7E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	1.982	1.865	651.1E6	533.4E6	0.1005	0.0958	
3)	ALPHA-BHC	2.334	2.229	871.3E6	660.2E6	0.1055	0.1043	
4)	GAMMA-BHC...	2.547	2.457	588.5E6	451.6E6	0.0935	0.0863	
5)	BETA-BHC	2.611	2.522	279.2E6	227.6E6	0.0943	0.0924	
6)	DELTA-BHC	2.736	2.720	793.3E6	622.2E6	0.1073	0.1074	
7)	HEPTACHLOR	2.889	2.750	537.2E6	385.7E6	0.0860	0.0787	
8)	ALDRIN	3.116	2.982	888.9E6	637.6E6	0.1032	0.0960	
9)	ISODRIN	3.379	3.284	666.3E6	523.8E6	0.1065	0.0977	
10)	HEPTACHLO...	3.605	3.434	575.7E6	513.1E6	0.0916	0.0963	
11)	GAMMA CHL...	3.712	3.591	640.9E6	489.1E6	0.1018	0.0947	
12)	ALPHA CHL...	3.826	3.714	612.8E6	521.3E6	0.0980	0.0941	
13)	4,4'-DDE	3.905	3.882	921.2E6	637.2E6	0.1047	0.0899	
14)	ENDOSULFAN I	3.937	3.757	604.6E6	471.2E6	0.1000	0.0944	
15)	DIELDRIN	4.134	3.990	683.7E6	532.7E6	0.1085	0.1003	
16)	ENDRIN	4.316	4.233	624.9E6	463.3E6	0.1031	0.0889	
17)	4,4'-DDD	4.387	4.355	502.6E6	411.8E6	0.0954	0.0975	
18)	ENDOSULFAN 2	4.490	4.405	488.4E6	390.6E6	0.0941	0.0855	
19)	4,4'-DDT	4.599	4.588	397.5E6	273.6E6	0.0930	0.0783	
20)	ENDRIN AL...	4.801	4.663	377.8E6	318.4E6	0.0921	0.0861	
21)	METHOXYCHLOR	4.964	5.095	185.7E6	133.4E6	0.0888	0.0750	
22)	MIREX	5.035	5.176	334.8E6	208.7E6	0.0803	0.0590	#
23)	ENDOSULFA...	5.109	4.863	409.6E6	350.4E6	0.0862	0.0804	
24)	ENDRIN KE...	5.299	5.224	456.9E6	368.4E6	0.0824	0.0763	
25)	DECACHLOR...	5.972	6.026	429.8E6	460.2E6	0.0901	0.0882	

SemiQuant Compounds - Not Calibrated on this Instrument

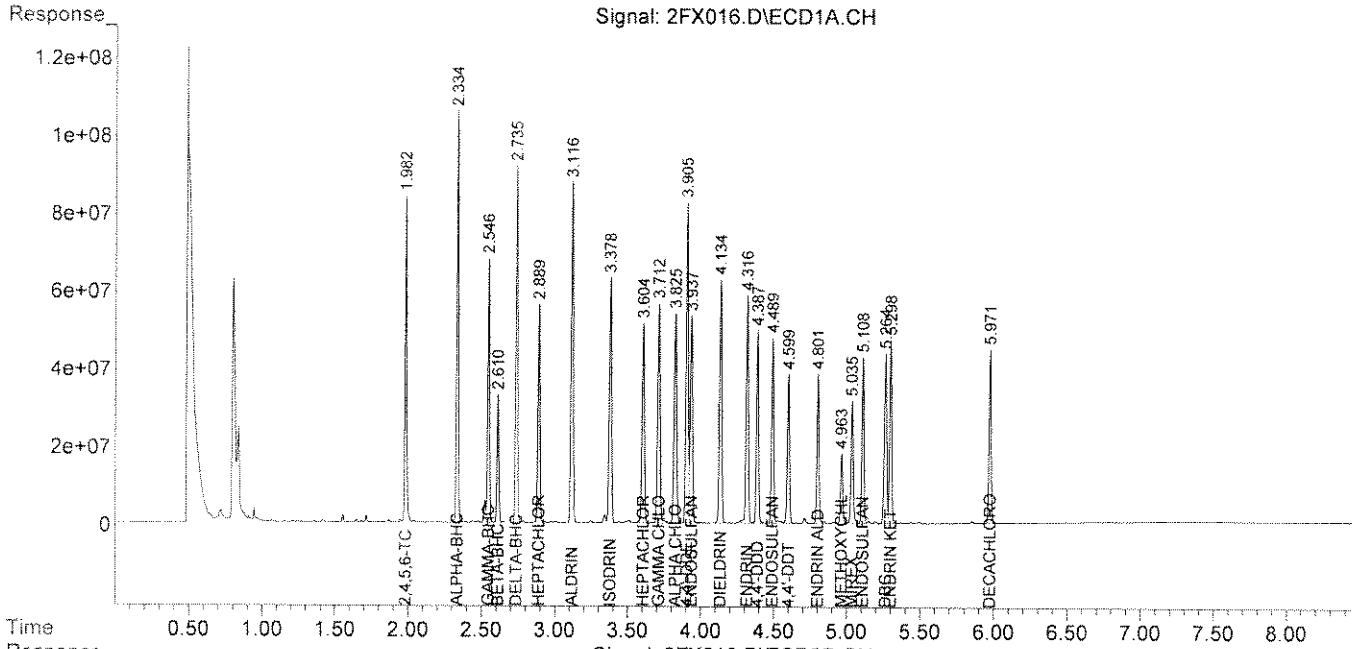
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

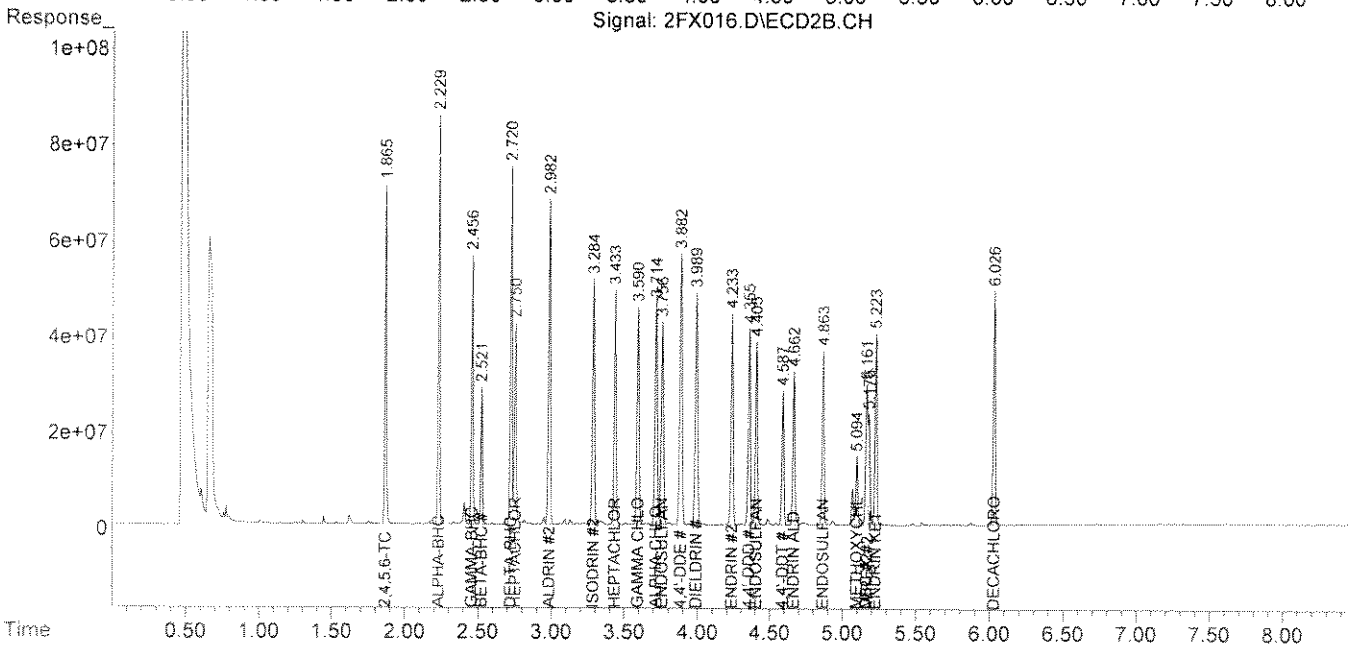
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 11:12
Operator : RC
Sample : 3F27011-BSD1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 12:02:02 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:00
Operator : RC
Sample : A303499-06RE1
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:01:18 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.264	5.166	1053.1E6	353.2E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.985	1.868	473.0E6	405.1E6	0.0343	0.0597 #
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.976	6.031	367.8E6	389.1E6	0.0362	0.0612 #

SemiQuant Compounds - Not Calibrated on this Instrument

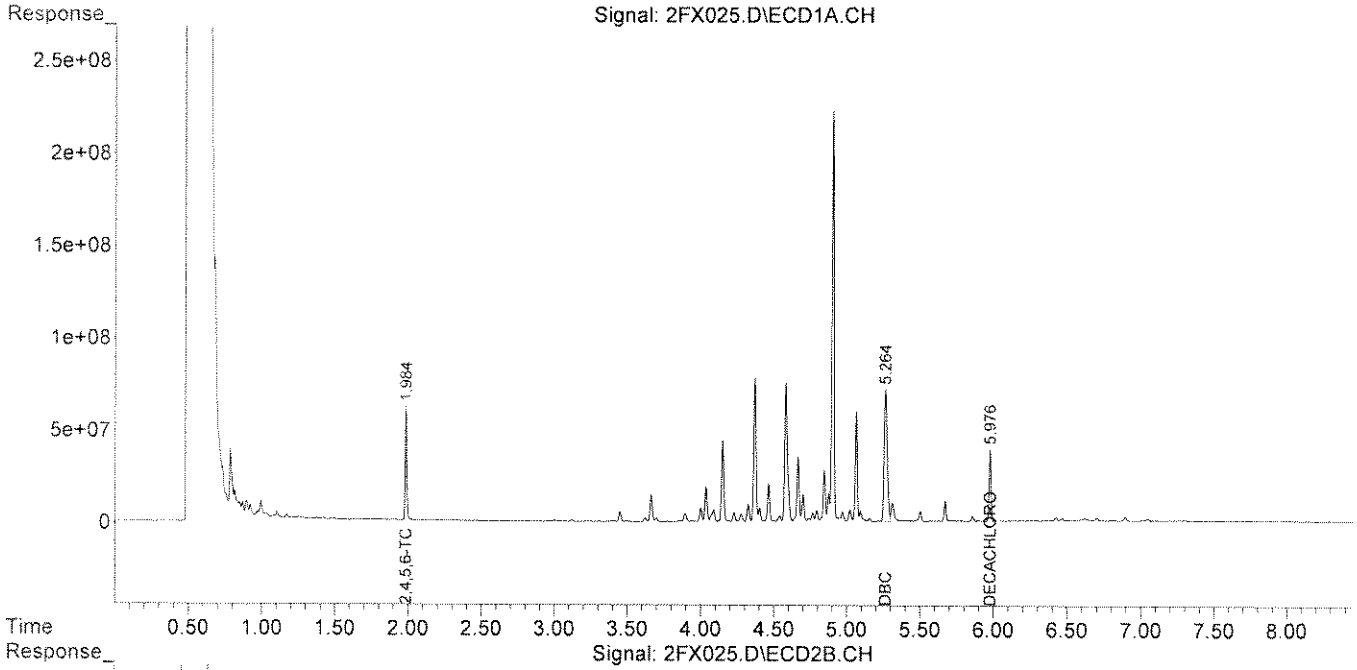
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

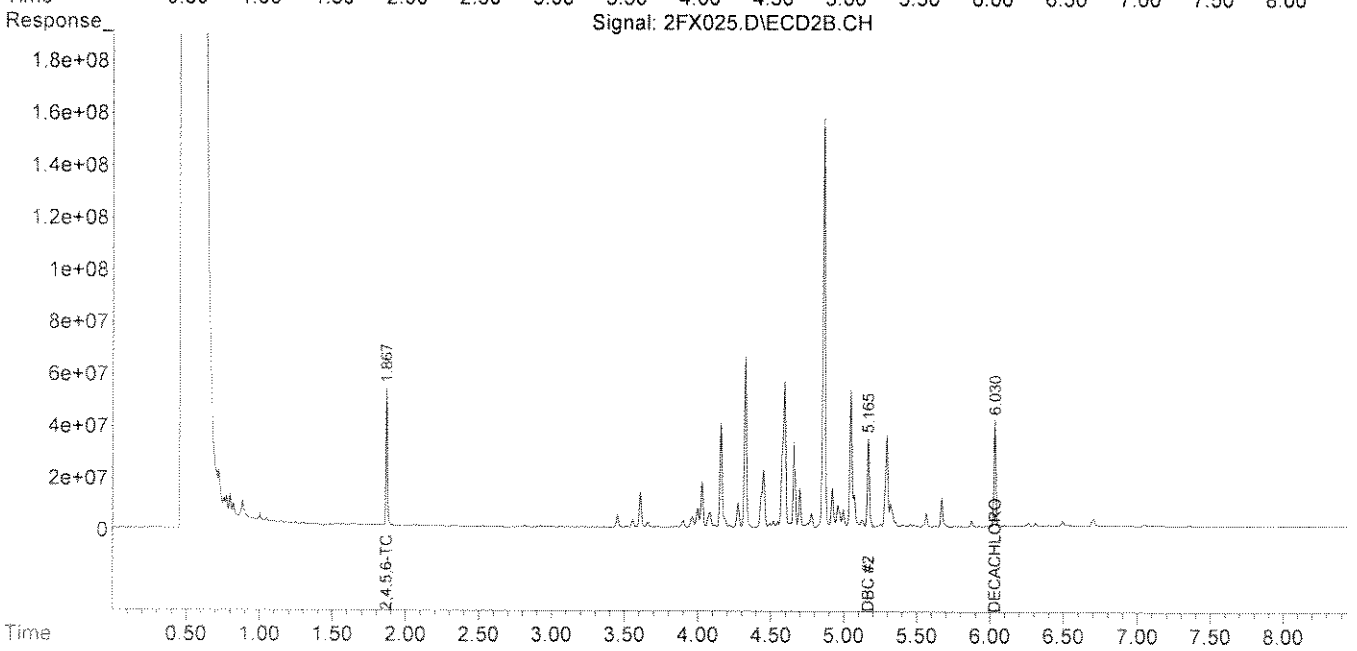
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:00
Operator : RC
Sample : A303499-06RE1
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:01:18 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:12
Operator : RC
Sample : A303499-07RE1
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:01:52 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.268	5.165	637.0E6	345.6E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.984	1.867	476.2E6	408.8E6	0.0570	0.0616
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.975	6.030	371.2E6	392.9E6	0.0604	0.0631

SemiQuant Compounds - Not Calibrated on this Instrument

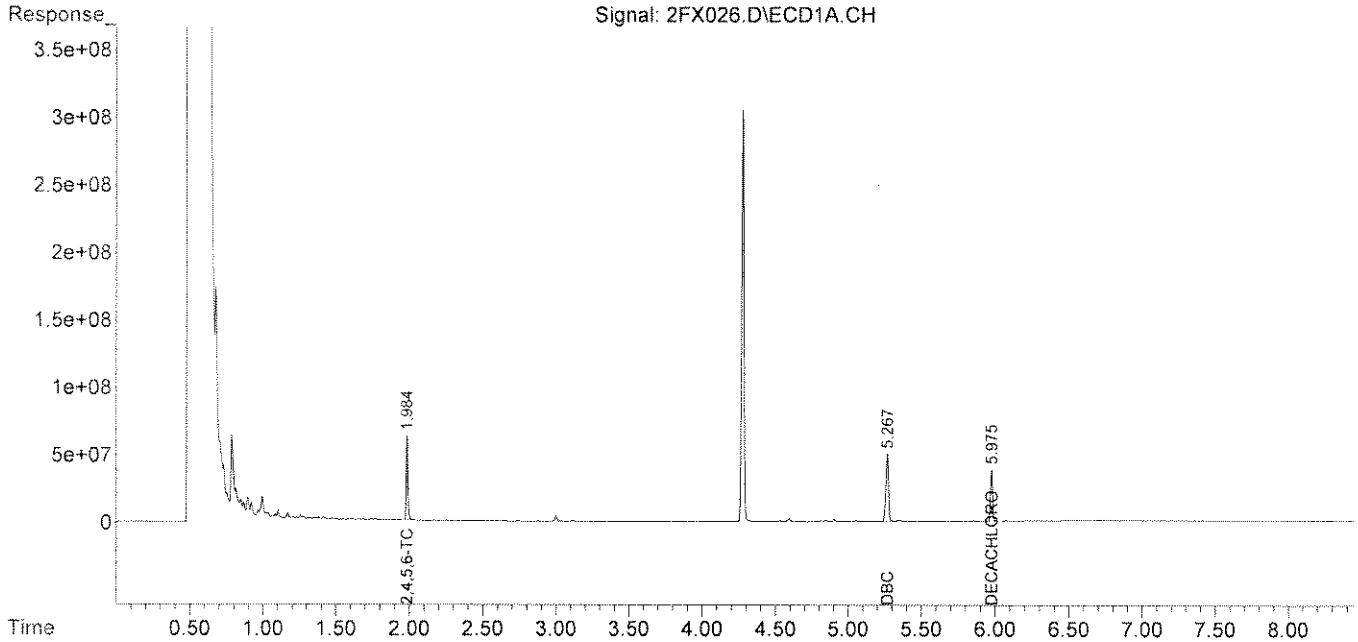
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

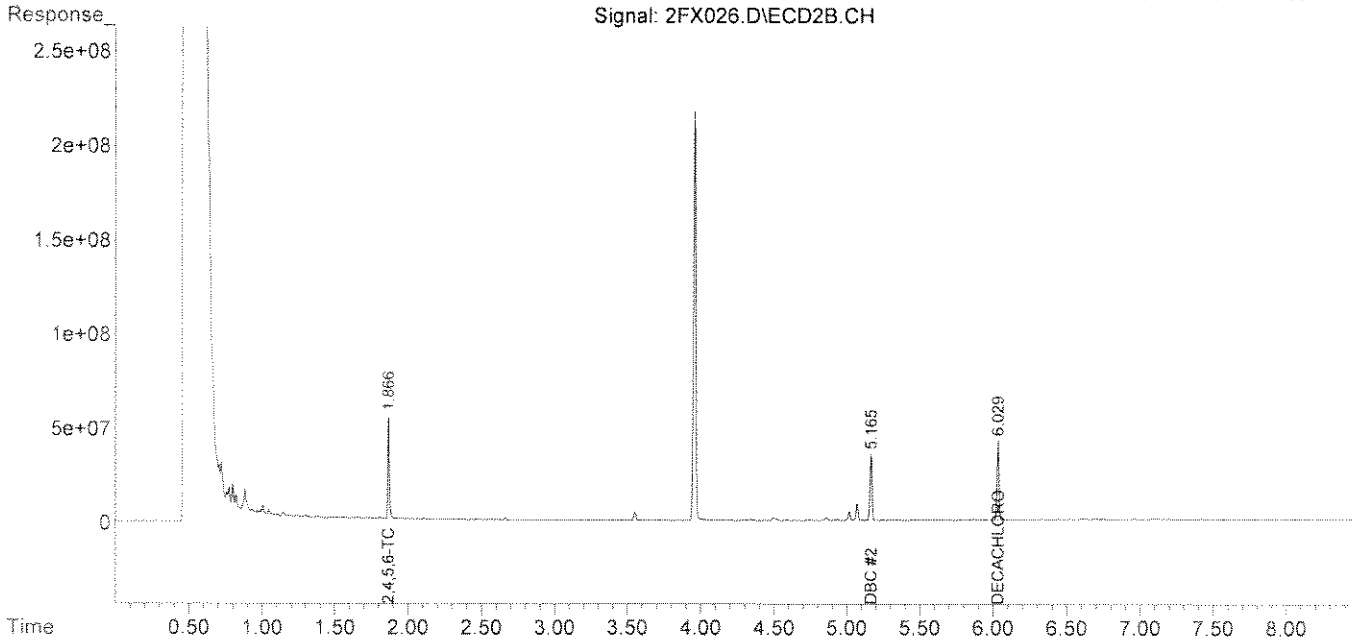
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:12
Operator : RC
Sample : A303499-07RE1
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:01:52 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:24
Operator : RC
Sample : A303499-09RE1
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:02:44 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.270	5.167	584.7E6	341.8E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.985	1.869	532.3E6	443.2E6	0.0694	0.0675
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.977	6.031	344.2E6	376.0E6	0.0610	0.0611

SemiQuant Compounds - Not Calibrated on this Instrument

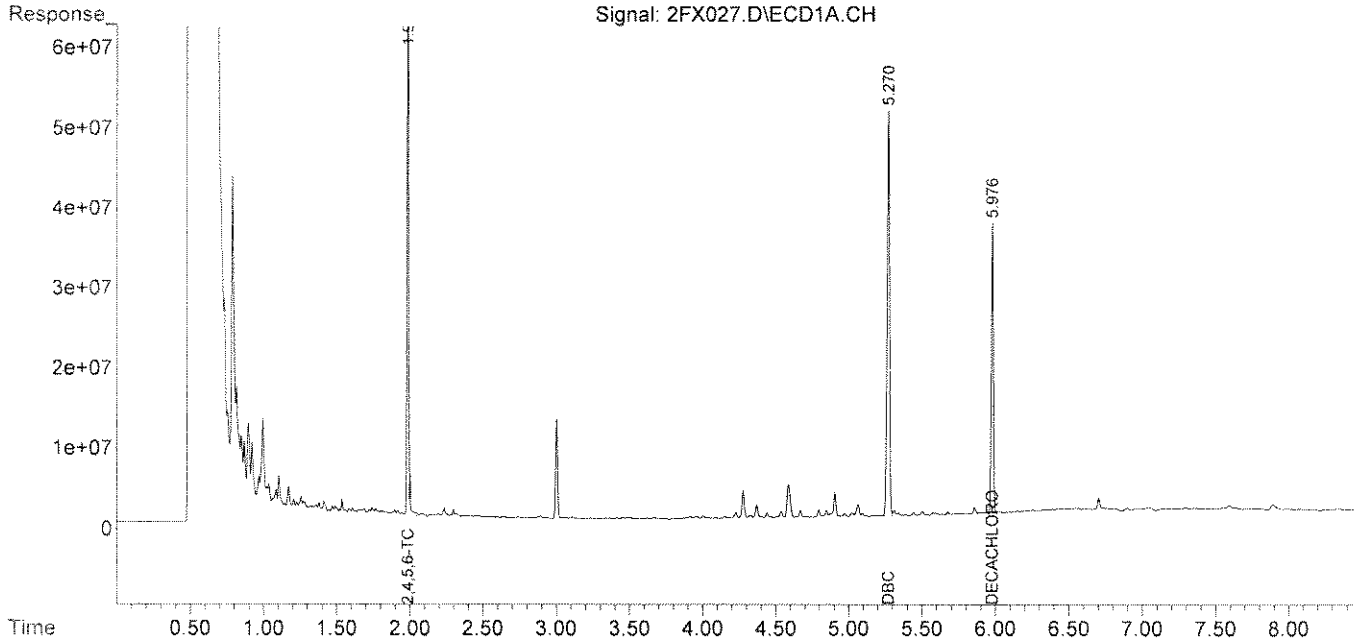
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

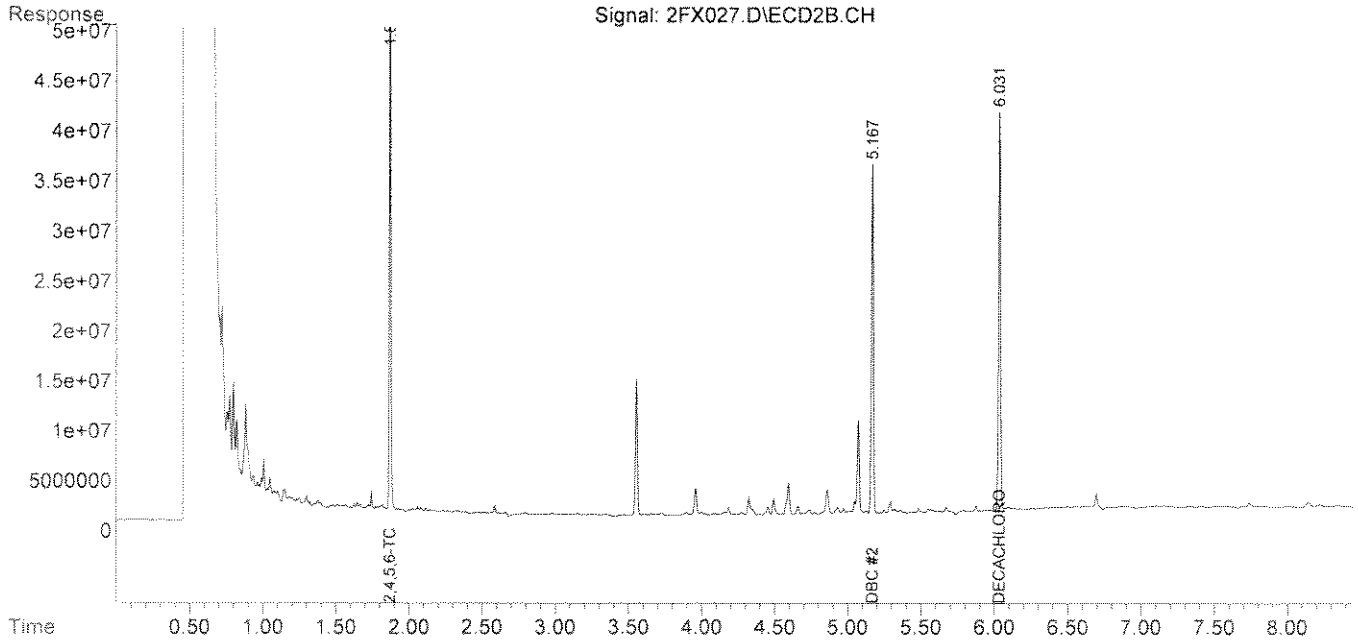
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:24
Operator : RC
Sample : A303499-09RE1
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:02:44 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:36
Operator : RC
Sample : A303499-10RE1
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:04:42 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.270	5.168	520.2E6	311.9E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.986	1.869	555.1E6	460.6E6	0.0814	0.0769
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.978	6.032	380.1E6	418.7E6	0.0757	0.0745

SemiQuant Compounds - Not Calibrated on this Instrument

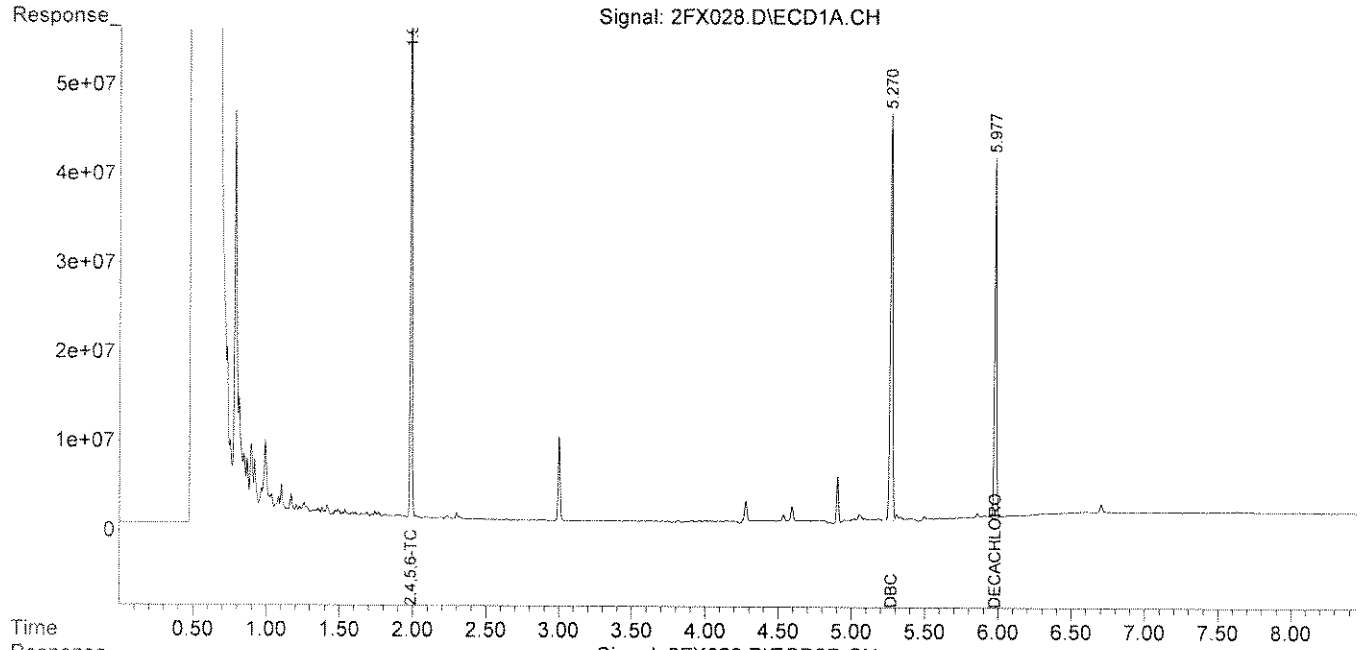
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

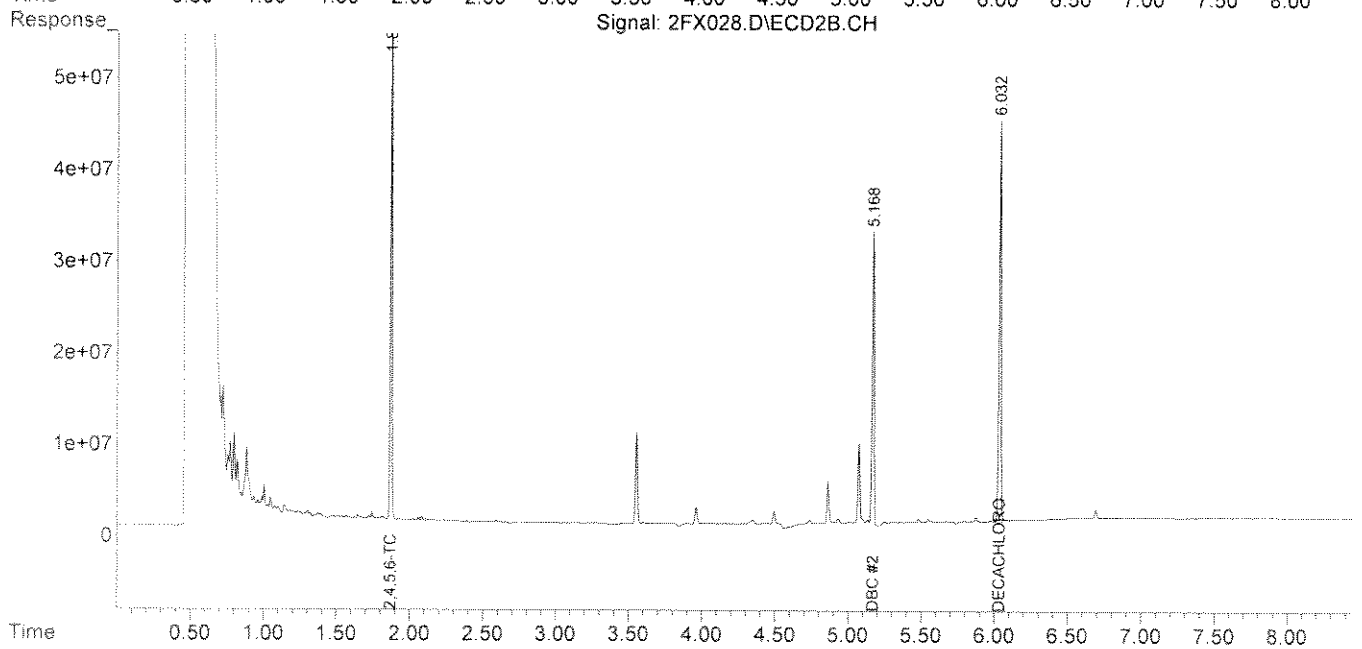
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:36
Operator : RC
Sample : A303499-10RE1
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:04:42 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:49
Operator : RC
Sample : A303499-14RE1@2X
Misc : 2X
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:05:29 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.271	5.168	539.7E6	281.6E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.987	1.870	255.5E6	217.4E6	0.0361	0.0402
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.978	6.032	171.7E6	179.6E6	0.0330	0.0354

SemiQuant Compounds - Not Calibrated on this Instrument

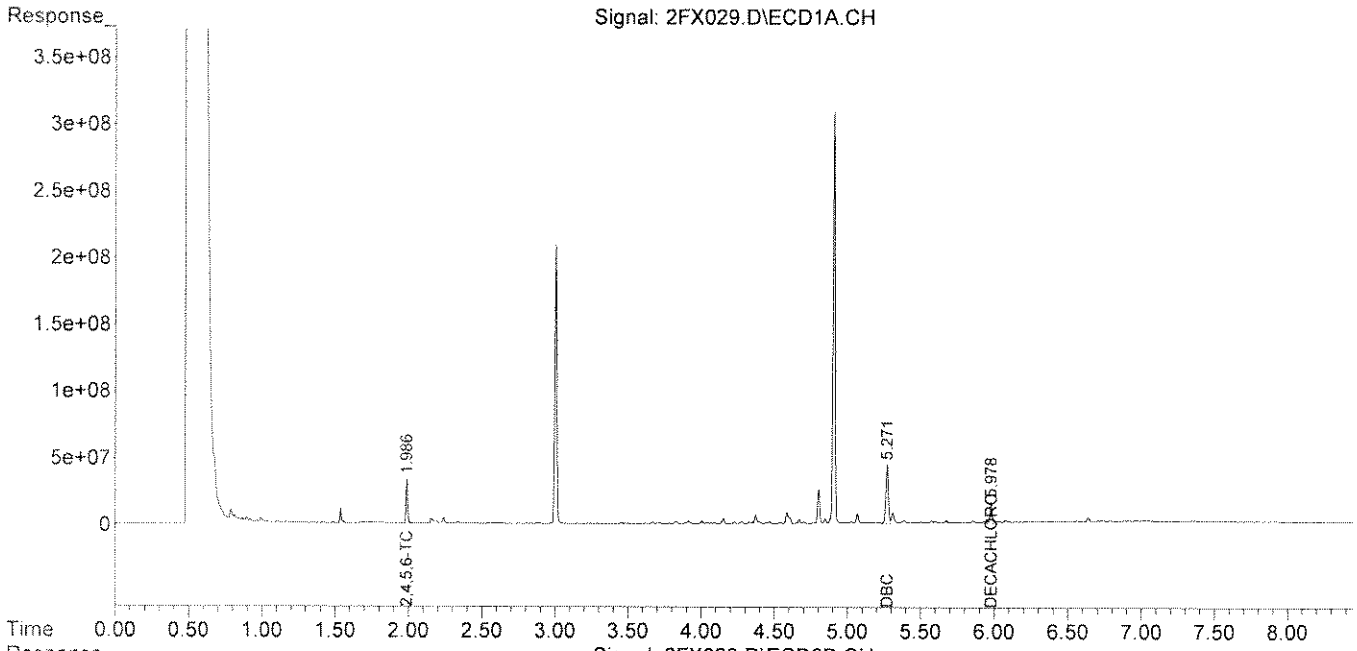
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

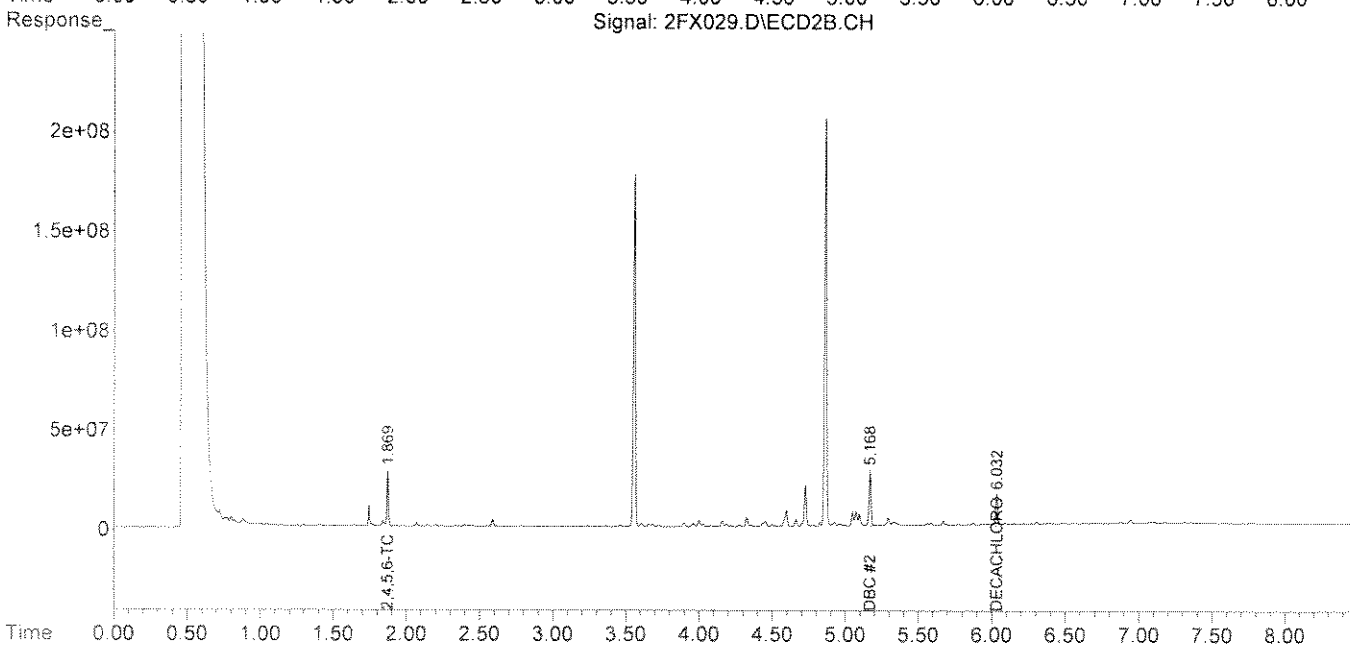
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 13:49
Operator : RC
Sample : A303499-14RE1@2X
Misc : 2X
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:05:29 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:01
Operator : RC
Sample : A303499-15RE1
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:06:02 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.271	5.168	518.6E6	299.6E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.986	1.869	436.4E6	368.6E6	0.0642	0.0640
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.978	6.033	305.2E6	313.8E6	0.0609	0.0582

SemiQuant Compounds - Not Calibrated on this Instrument

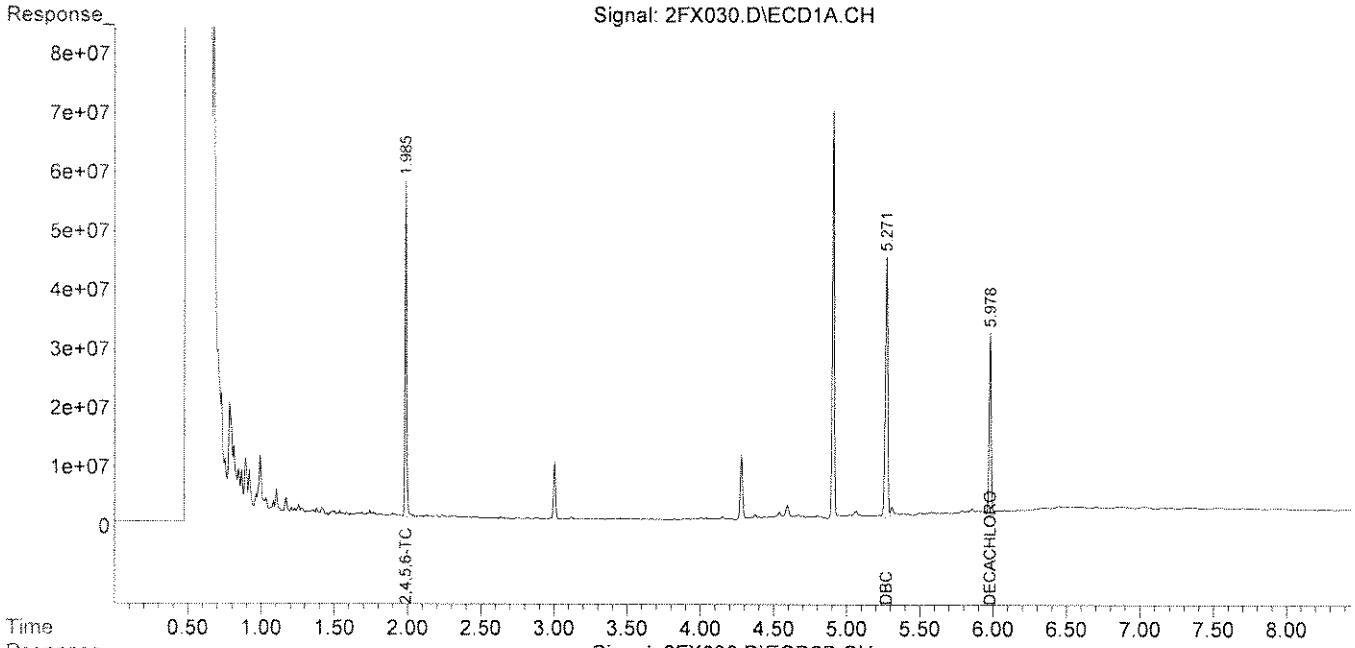
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

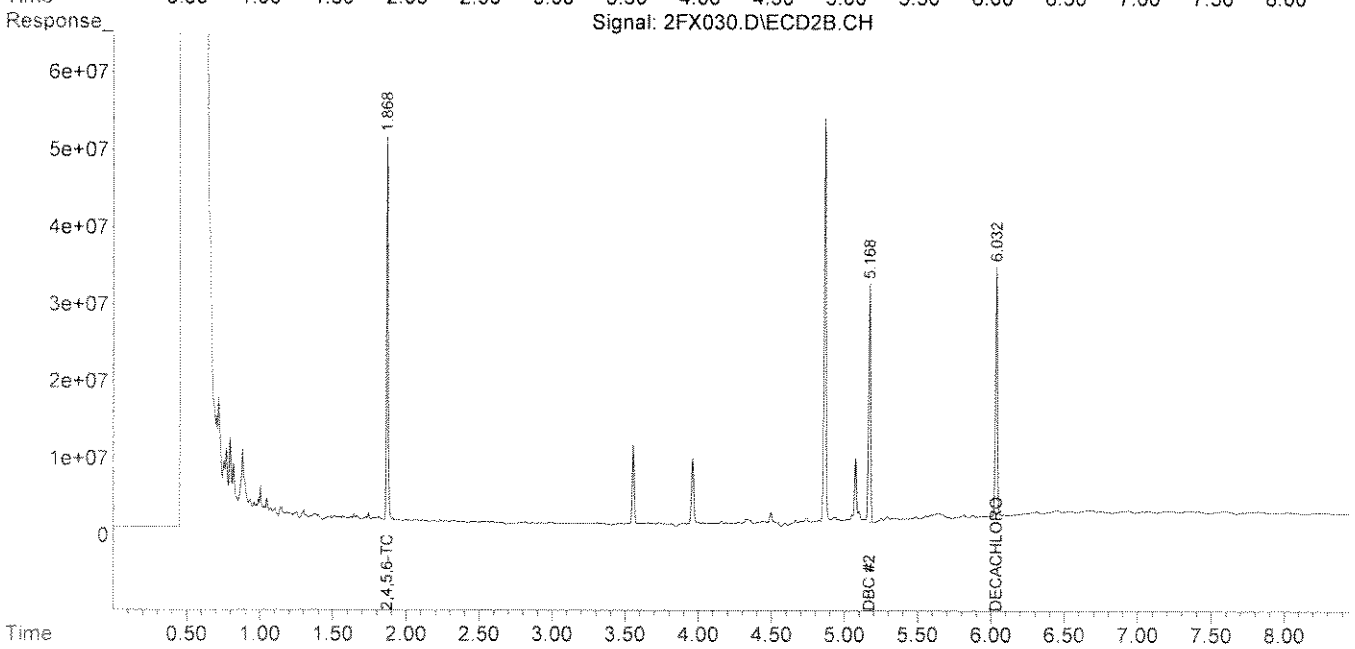
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:01
Operator : RC
Sample : A303499-15RE1
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:06:02 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:13
Operator : RC
Sample : A303499-17RE1@2X
Misc : 2X
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:06:40 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.272	5.170	599.6E6	313.3E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.987	1.870	247.0E6	216.1E6	0.0314	0.0359
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.980	6.033	158.8E6	186.8E6	0.0274	0.0331

SemiQuant Compounds - Not Calibrated on this Instrument

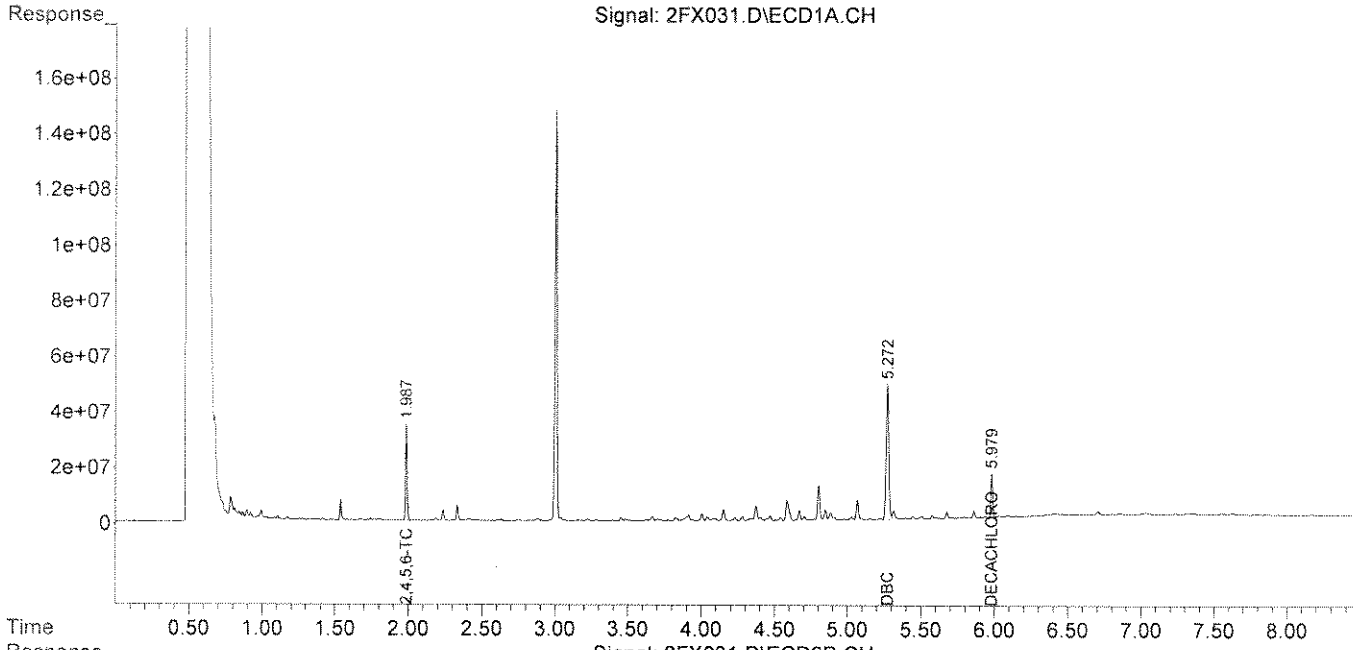
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

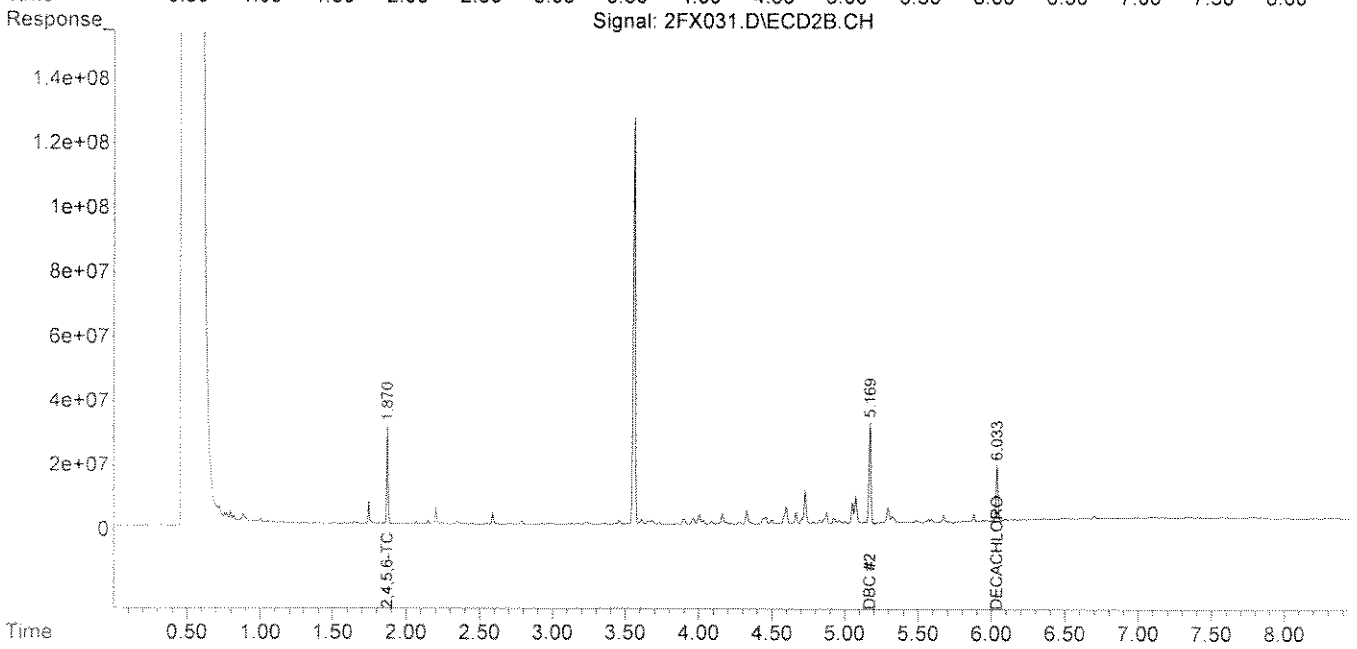
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:13
Operator : RC
Sample : A303499-17RE1@2X
Misc : 2X
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:06:40 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:25
Operator : RC
Sample : A303499-18RE1
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:07:13 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.273	5.171	539.8E6	320.5E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.987	1.870	283.2E6	241.1E6	0.0400	0.0392
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.980	6.034	379.0E6	404.7E6	0.0727	0.0701

SemiQuant Compounds - Not Calibrated on this Instrument

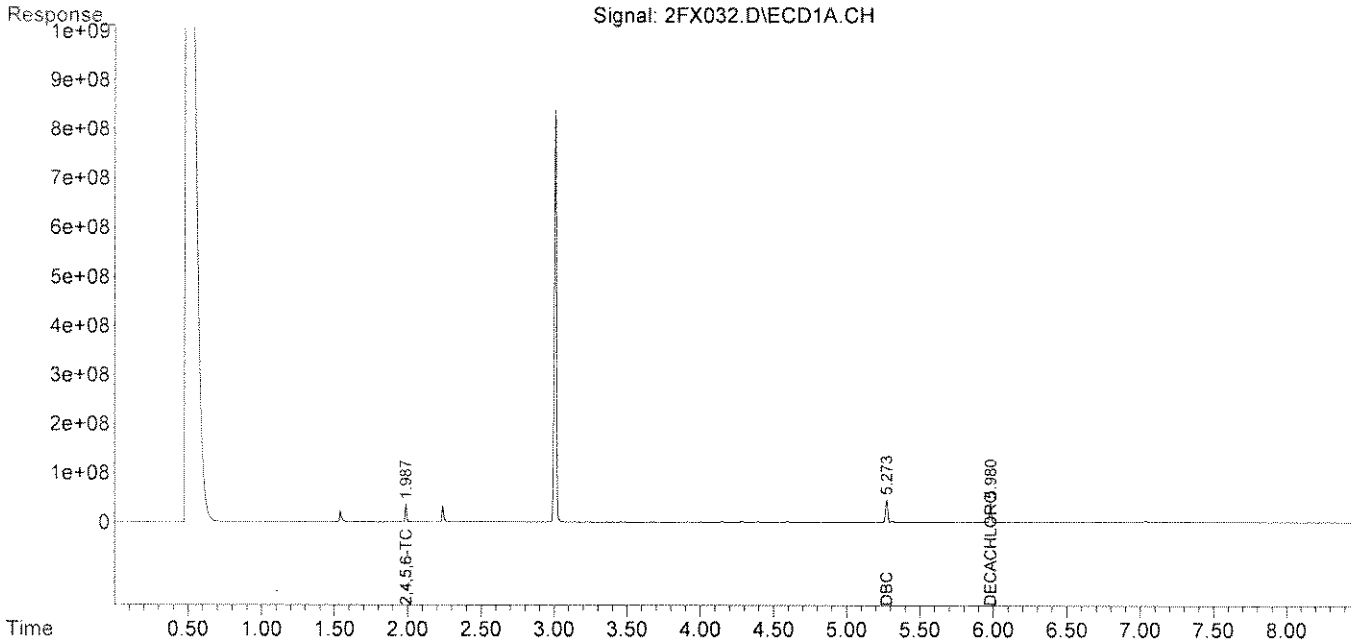
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

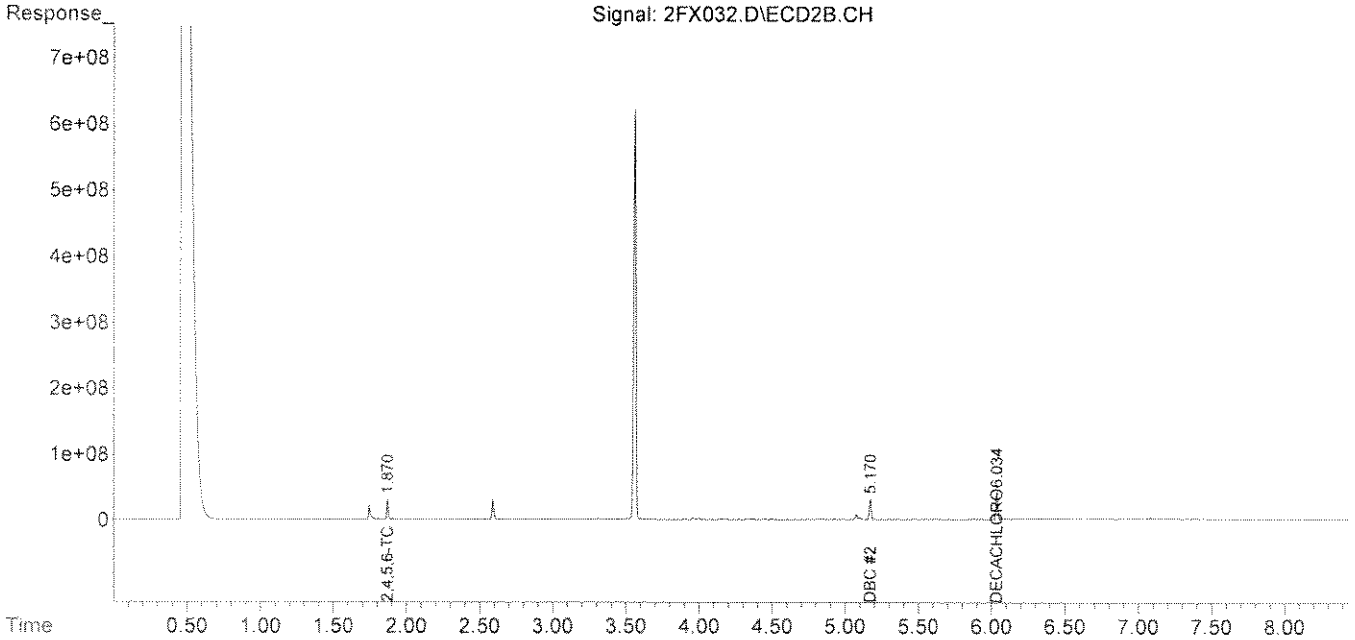
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:25
Operator : RC
Sample : A303499-18RE1
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:07:13 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:37
Operator : RC
Sample : A303499-19RE1
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:07:44 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.275	5.172	543.9E6	331.0E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	1.989	1.872	475.2E6	401.1E6	0.0666	0.0631
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.982	6.035	348.0E6	379.0E6	0.0663	0.0636

SemiQuant Compounds - Not Calibrated on this Instrument

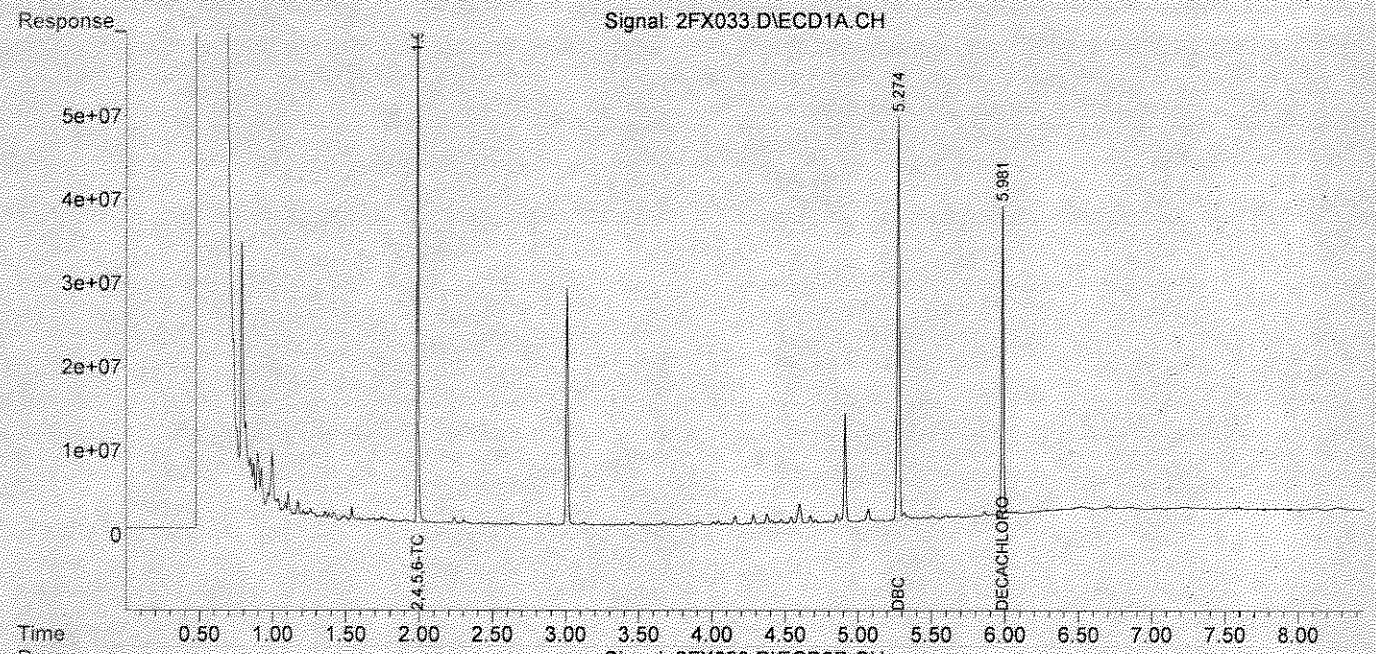
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

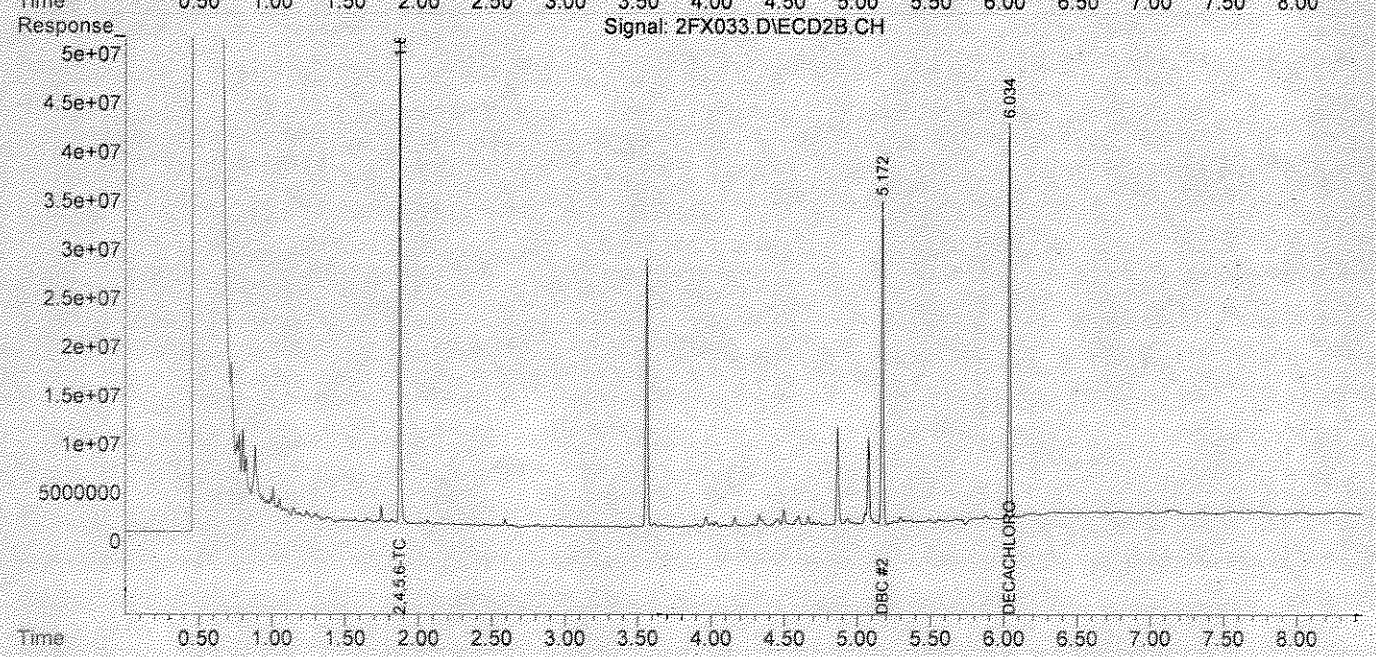
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:37
Operator : RC
Sample : A303499-19RE1
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:07:44 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:49
Operator : RC
Sample : A303499-20RE1
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:08:35 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.276	5.172	533.1E6	294.0E6	0.1000	0.1000m
	Target Compounds						
2)	2,4,5,6-TCMX	1.990f	1.873	522.9E6	443.4E6	0.0748	0.0785
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.982	6.036	364.3E6	375.8E6	0.0708	0.0710

SemiQuant Compounds - Not Calibrated on this Instrument

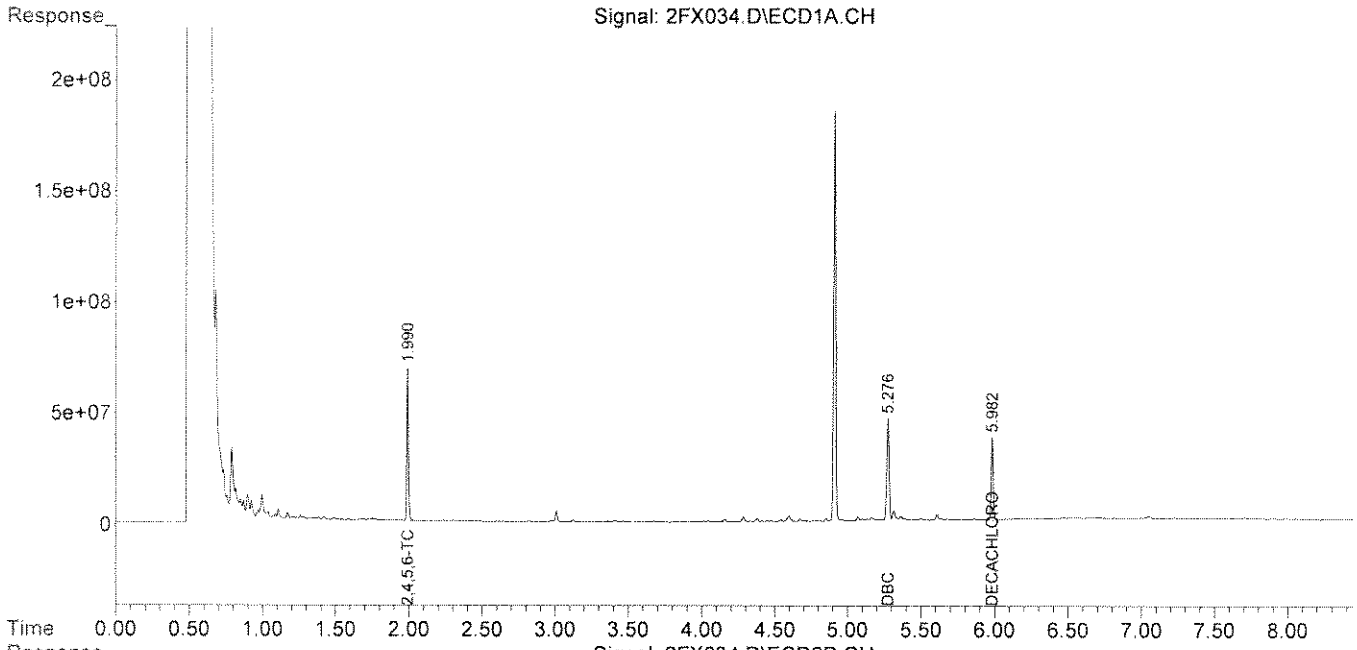
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

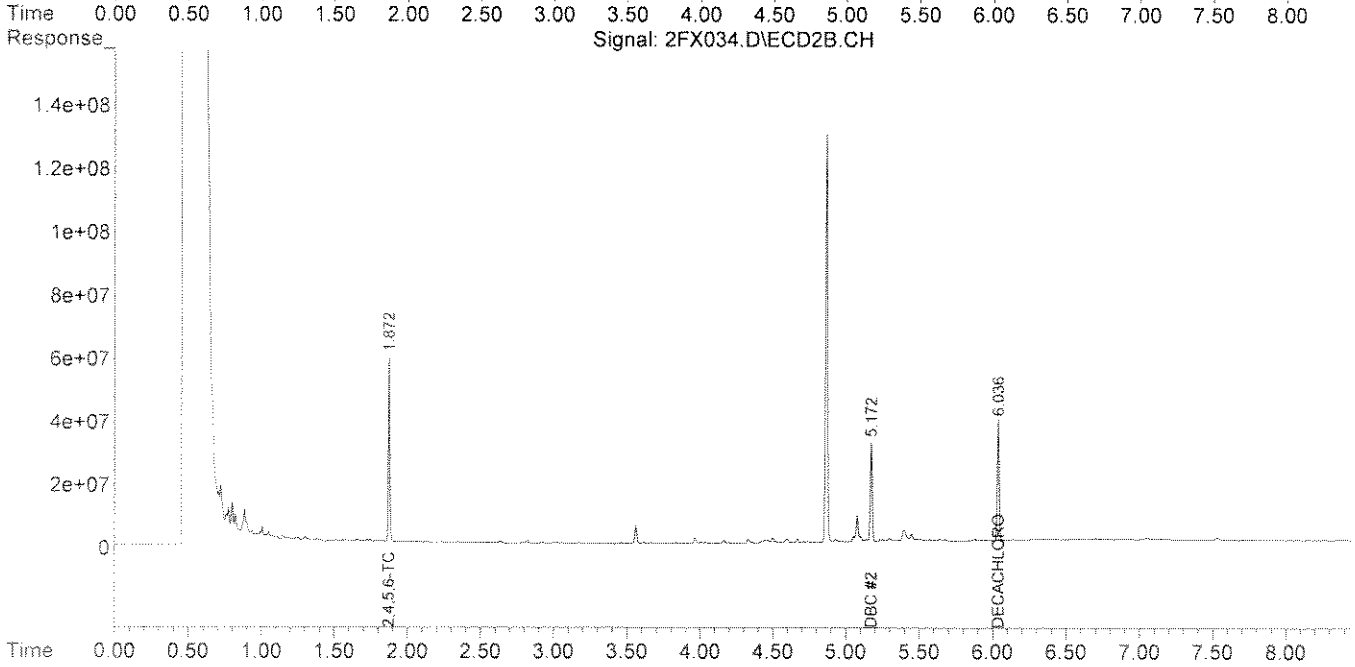
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:49
Operator : RC
Sample : A303499-20RE1
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:08:35 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



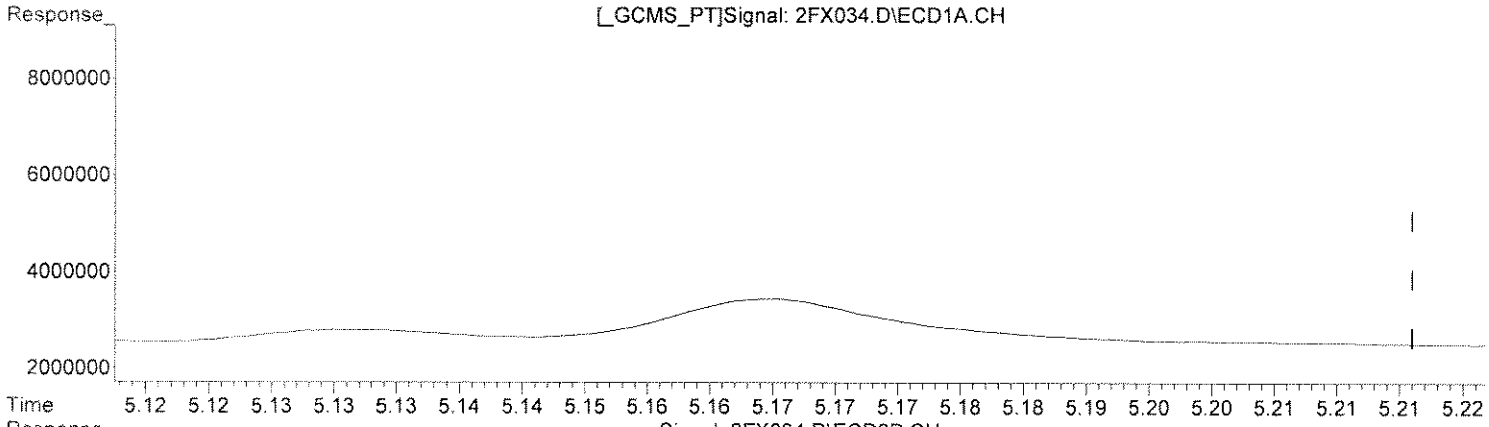


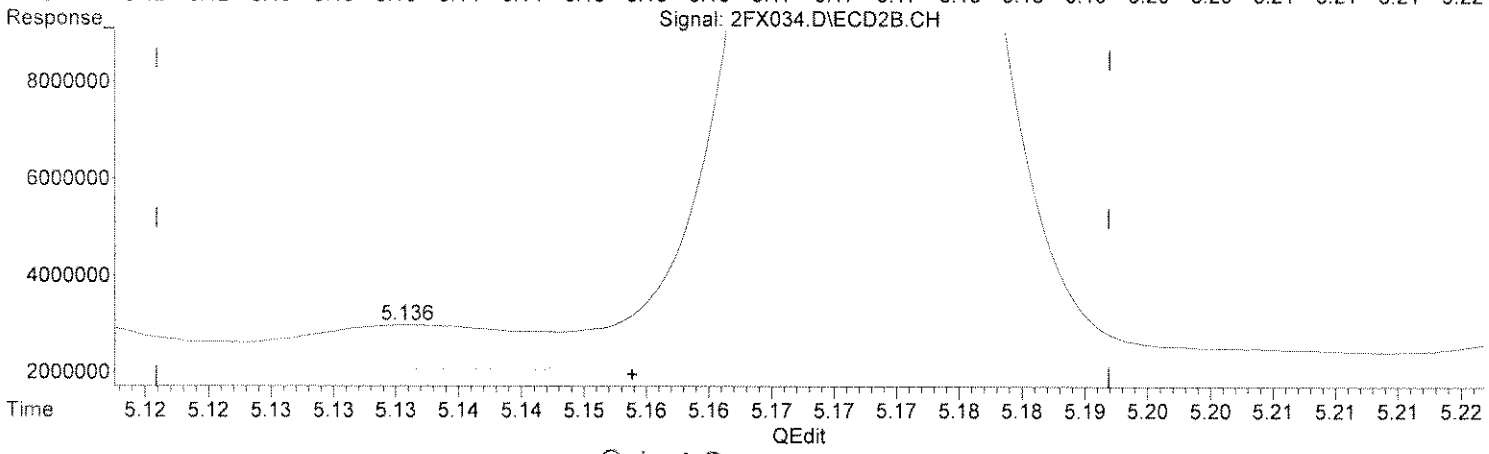
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:49
Operator : RC
Sample : A303499-20RE1
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:35 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) DBC (I)
5.276min 0.100 ug/mL
response 533099665

(1) DBC #2 (I)
5.136min 0.100 ug/mL
response 11978404

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 7/1/13
Review by/Date 7/01/13

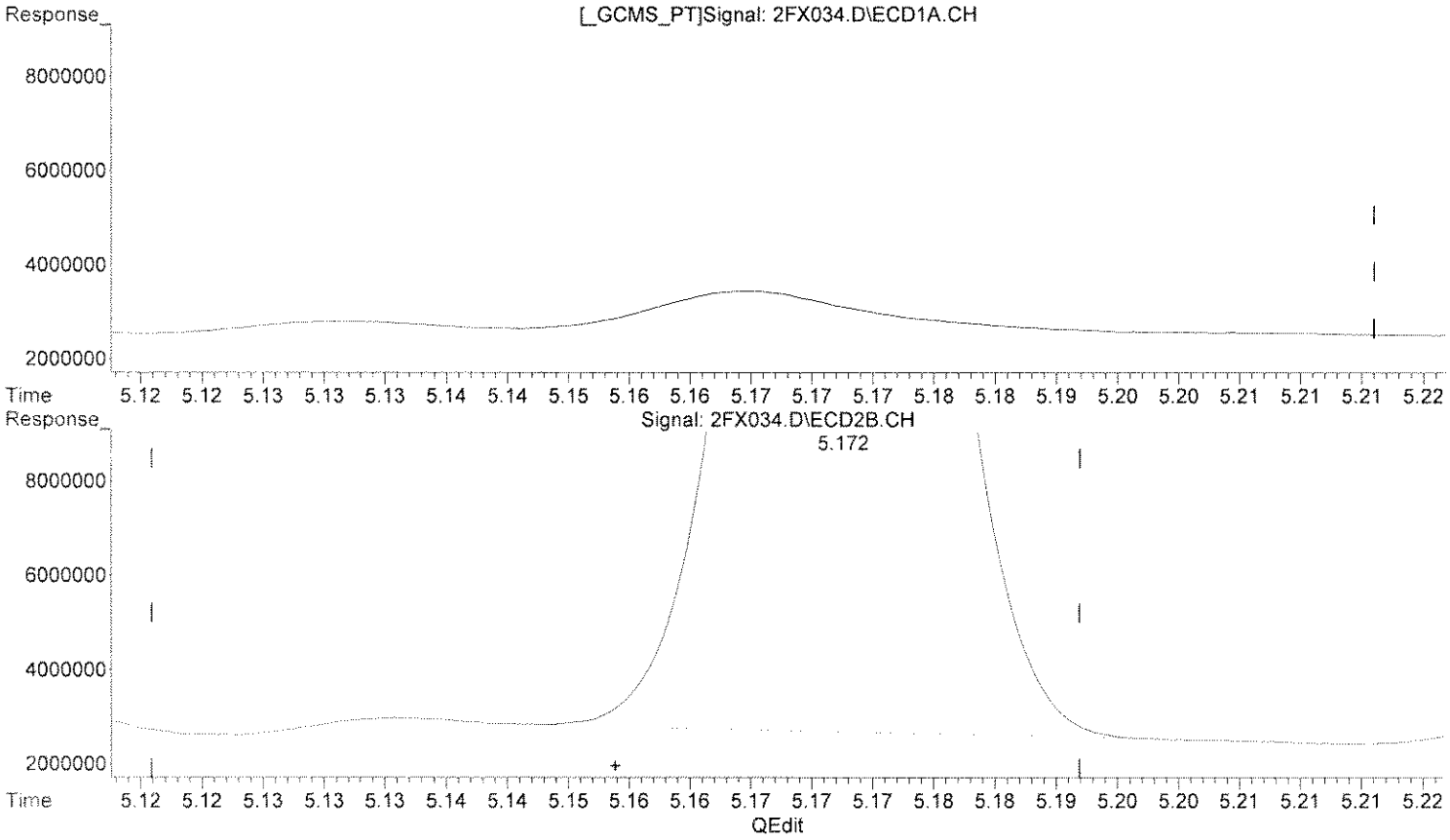
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 14:49
Operator : RC
Sample : A303499-20RE1
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:35 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(1) DBC (I)
5.276min 0.100 ug/mL
response 533099665

(1) DBC #2 (I)
5.172min 0.100 ug/mL m
response 293972494

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[✓] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date 9/26/13
Review by/Date: 9/27/13

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:01
Operator : RC
Sample : A303499-21RE1
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:09:32 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.277	5.174f	532.8E6	317.2E6	0.1000	0.1000m
	Target Compounds						
2)	2,4,5,6-TCMX	1.991f	1.874	577.7E6	489.5E6	0.0827	0.0803
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.984	6.037	304.3E6	403.3E6	0.0592	0.0706

SemiQuant Compounds - Not Calibrated on this Instrument

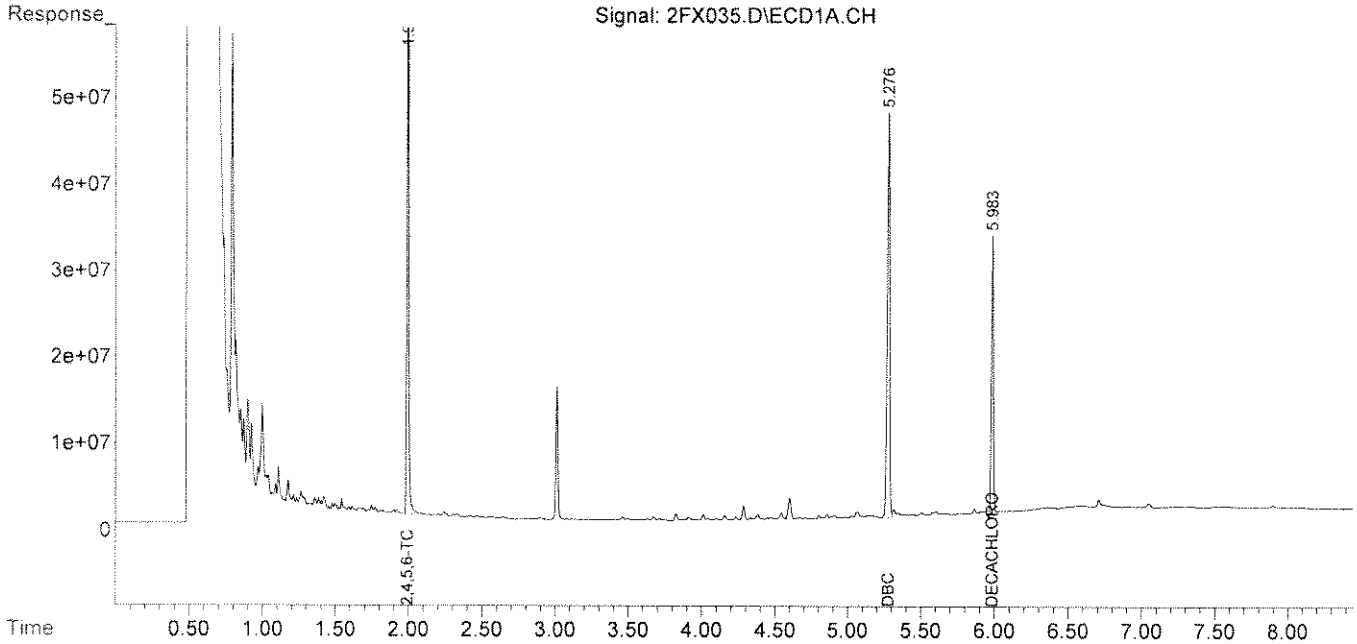
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

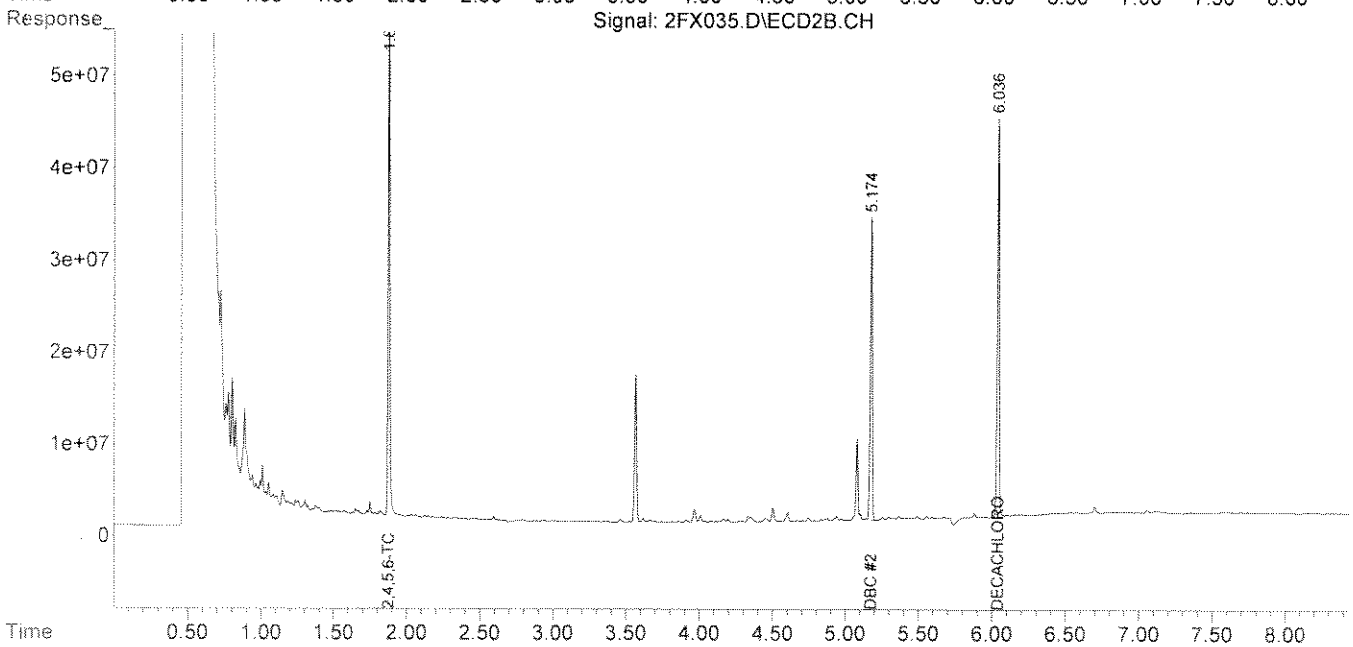
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:01
Operator : RC
Sample : A303499-21RE1
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:09:32 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



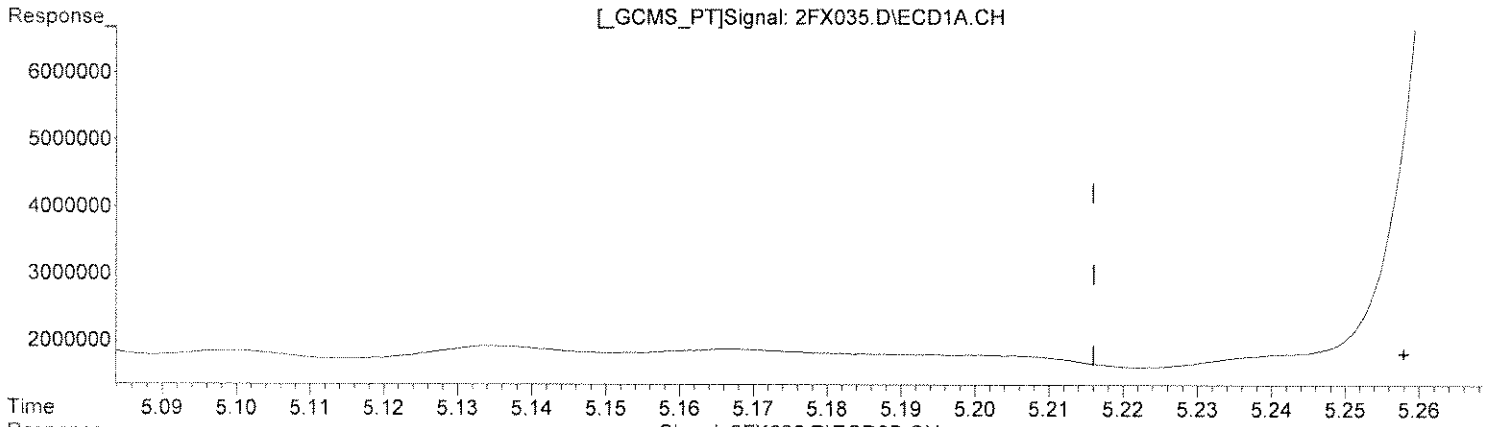


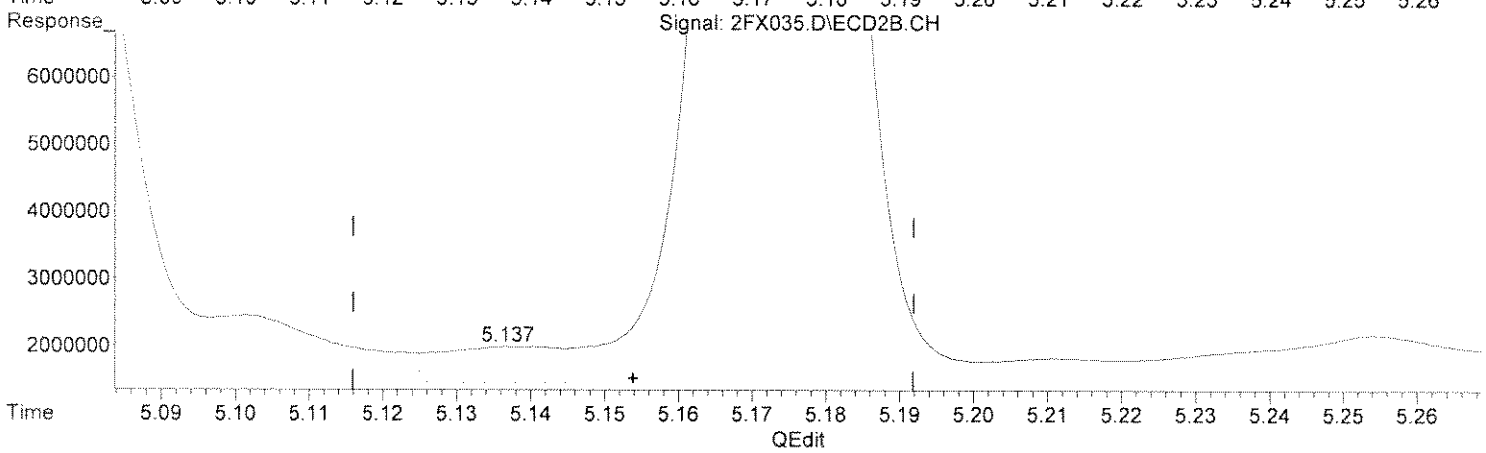
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:01
Operator : RC
Sample : A303499-21RE1
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:40 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) DBC (I)
5.277min 0.100 ug/mL
response 532756154

(1) DBC #2 (I)
5.139min 0.100 ug/mL
response 6015086

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 9/6/13
Review by/Date: RC 070113

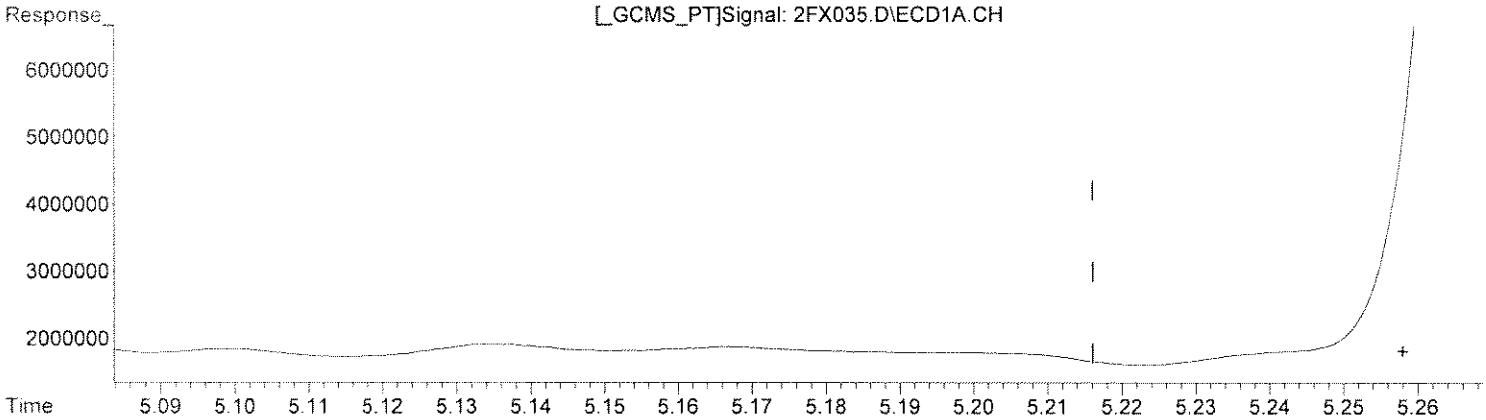
(+) = Expected Retention Time
PEST2DJ13.M Mon Jul 01 12:09:04 2013

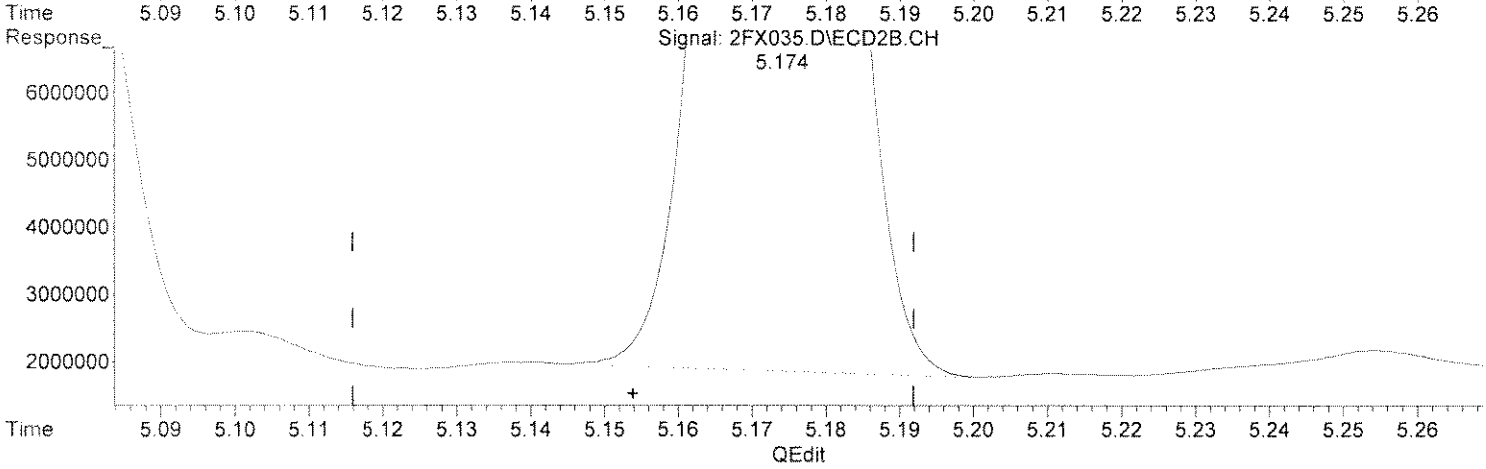
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:01
Operator : RC
Sample : A303499-21RE1
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:40 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) DBC (I)
5.277min 0.100 ug/mL
response 532756154

(1) DBC #2 (I)
5.174min 0.100 ug/mL m
response 317159412

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date 7/1/13
Review by/Date: RC 070113

(+) = Expected Retention Time
PEST2DJ13.M Mon Jul 01 12:09:10 2013

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:13
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:10:31 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.277	5.175f	628.7E6	261.4E6	0.1000	0.1000m
	Target Compounds						
2)	2,4,5,6-TCMX	1.993f	1.875	428.6E6	335.1E6	0.0520	0.0667m#
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	0.000	0.000	0	0	N.D. d	N.D. d
25)	DECACHLOR...	5.985	6.038	299.2E6	372.9E6	0.0493	0.0792 #

SemiQuant Compounds - Not Calibrated on this Instrument

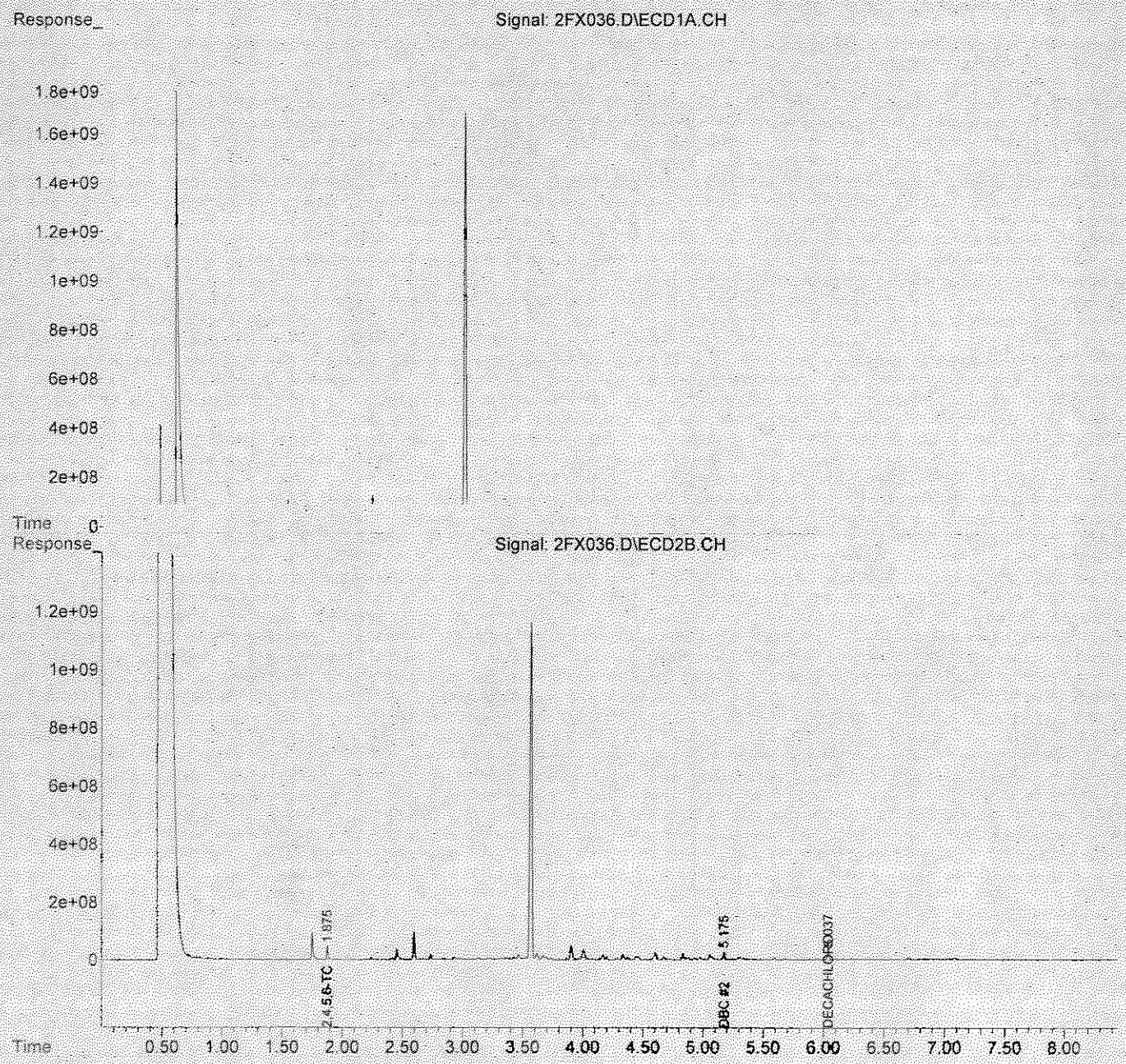
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:13
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 01 12:10:31 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

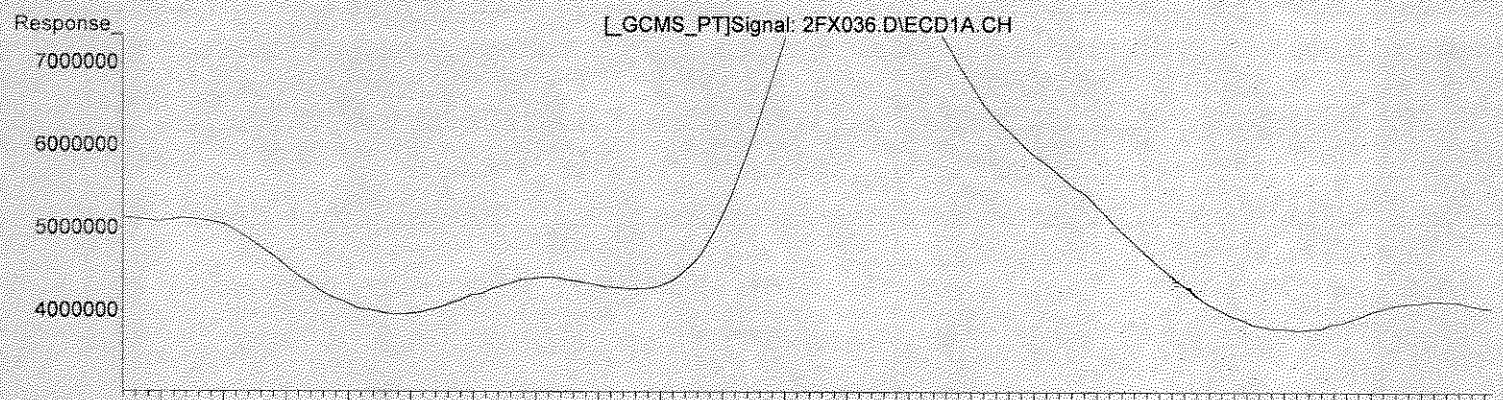


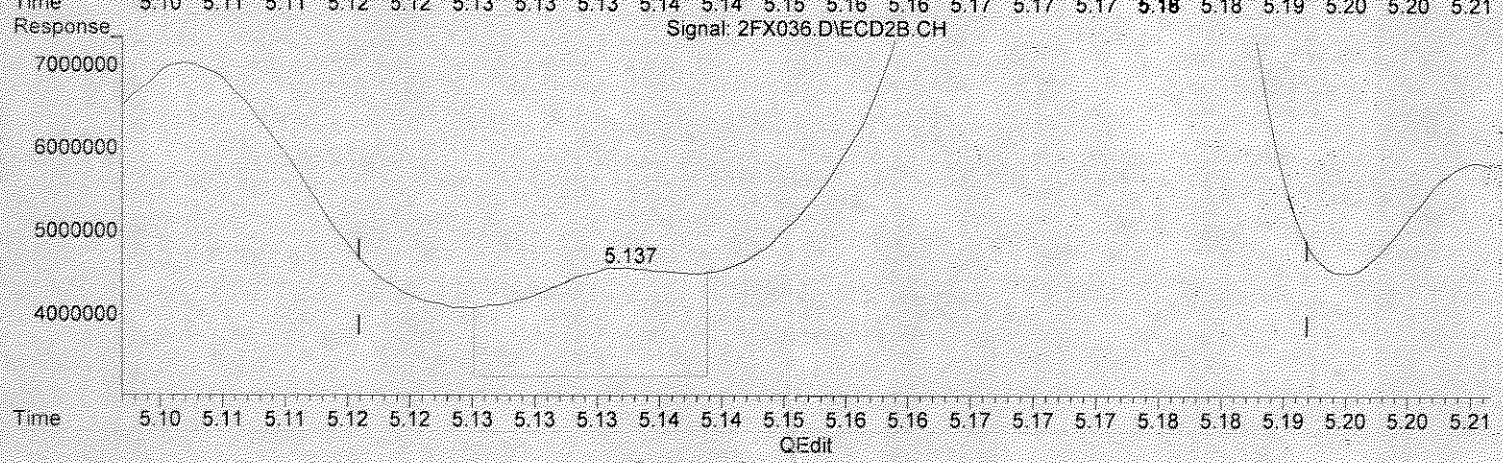
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:13
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) DBC (I)
5.277min 0.100 ug/mL
response 628667901

(1) DBC #2 (I)
5.138min 0.100 ug/mL
response 12665486

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 4/7/17
Review by/Date: RC 070113

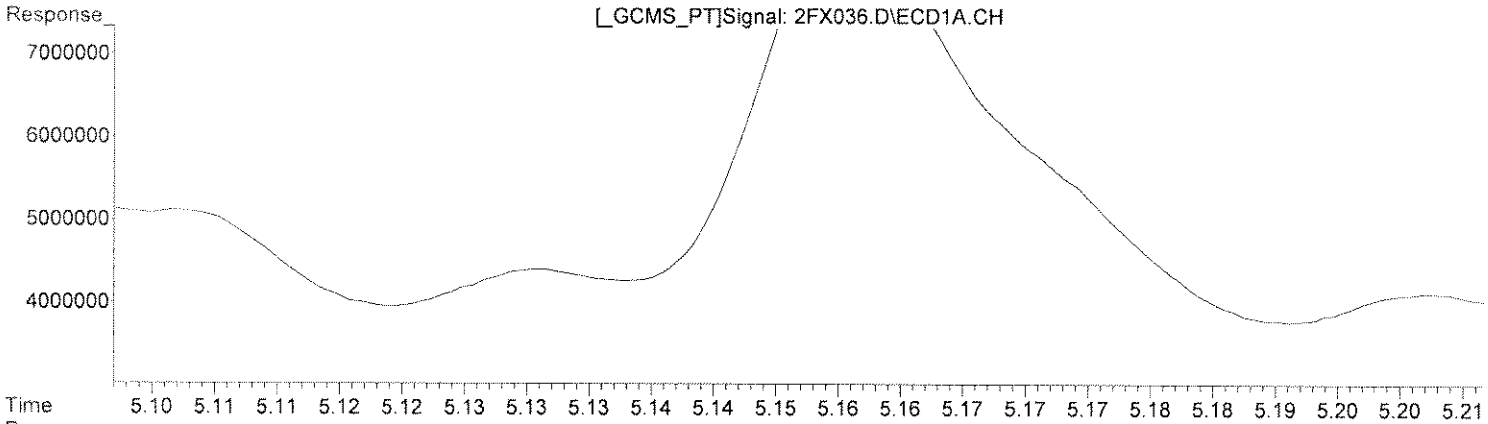
(+) = Expected Retention Time

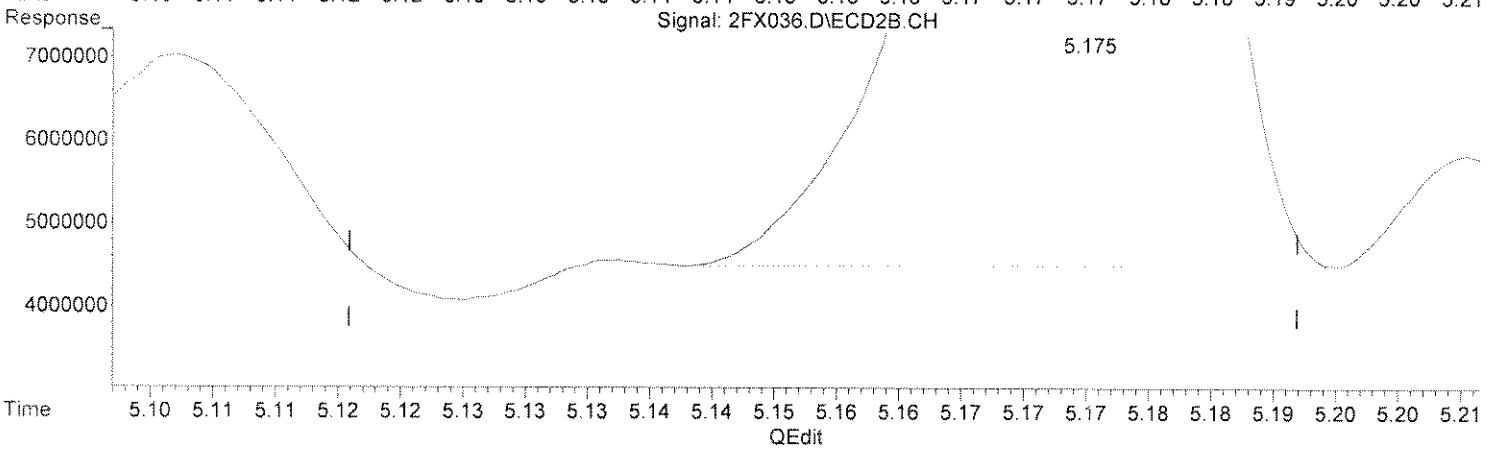
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:13
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) DBC (I)
5.277min 0.100 ug/mL
response 628667901

(1) DBC #2 (I)
5.175min 0.100 ug/mL m
response 261432991

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[✓] ISTD reintegration
[] Other:
Review by/Date 9/7/13
Review by/Date: RC 070113

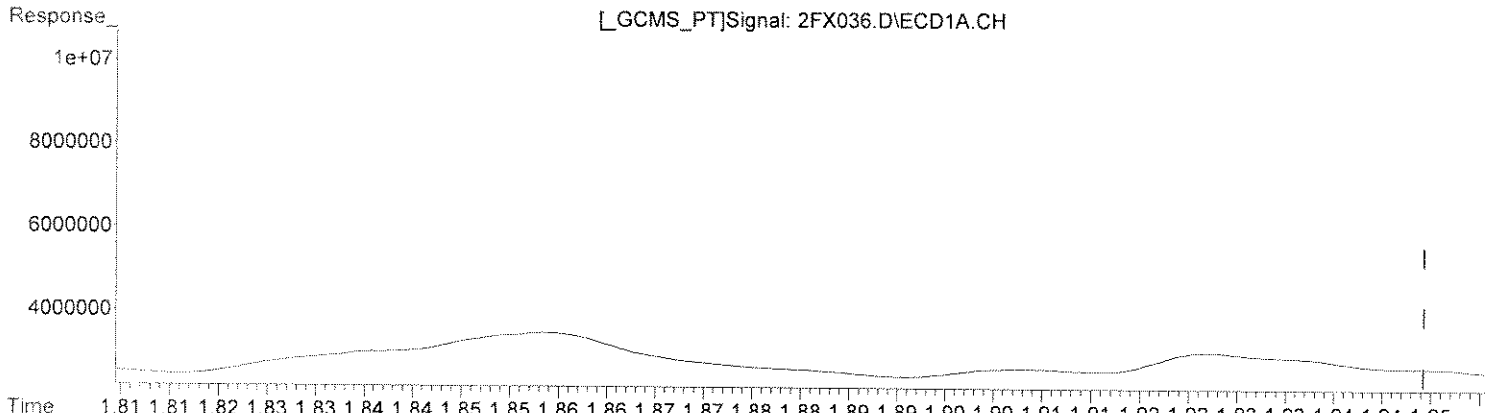
(+) = Expected Retention Time

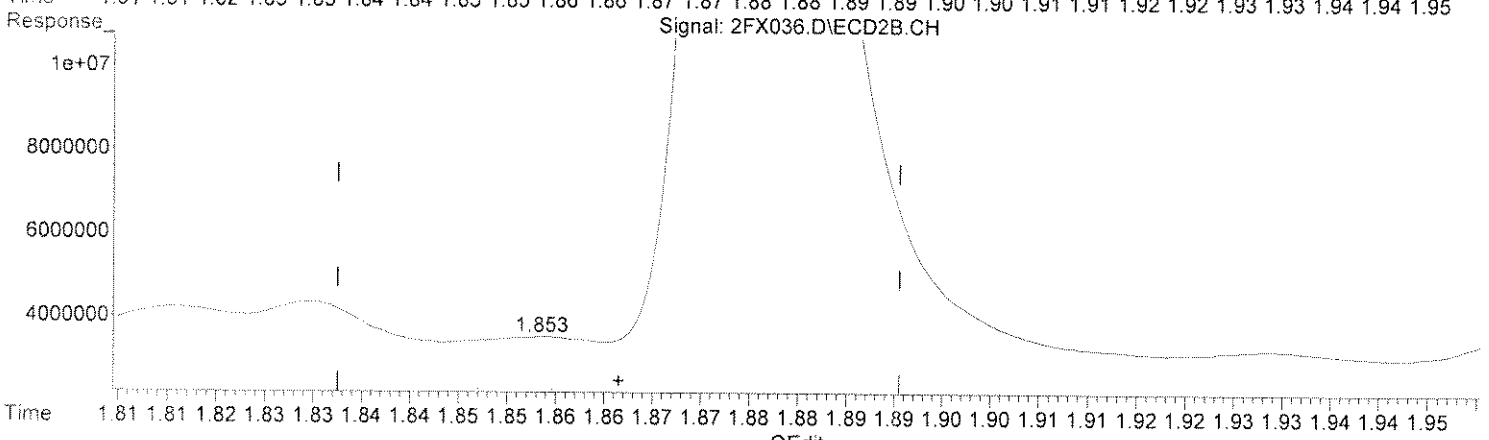
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:13
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(2) 2,4,5,6-TCMX
1.993min 0.052 ug/mL
response 428601615

(2) 2,4,5,6-TCMX #2
1.854min 0.002 ug/mL
response 11627933

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 7/8/13
Review by/Date: RC 070113

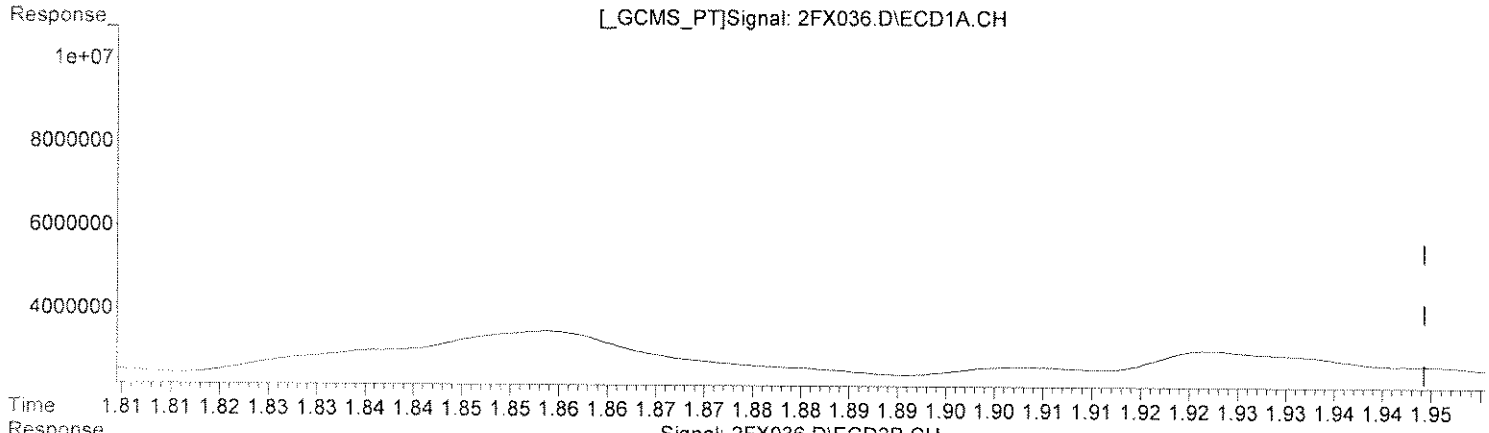
(+) = Expected Retention Time

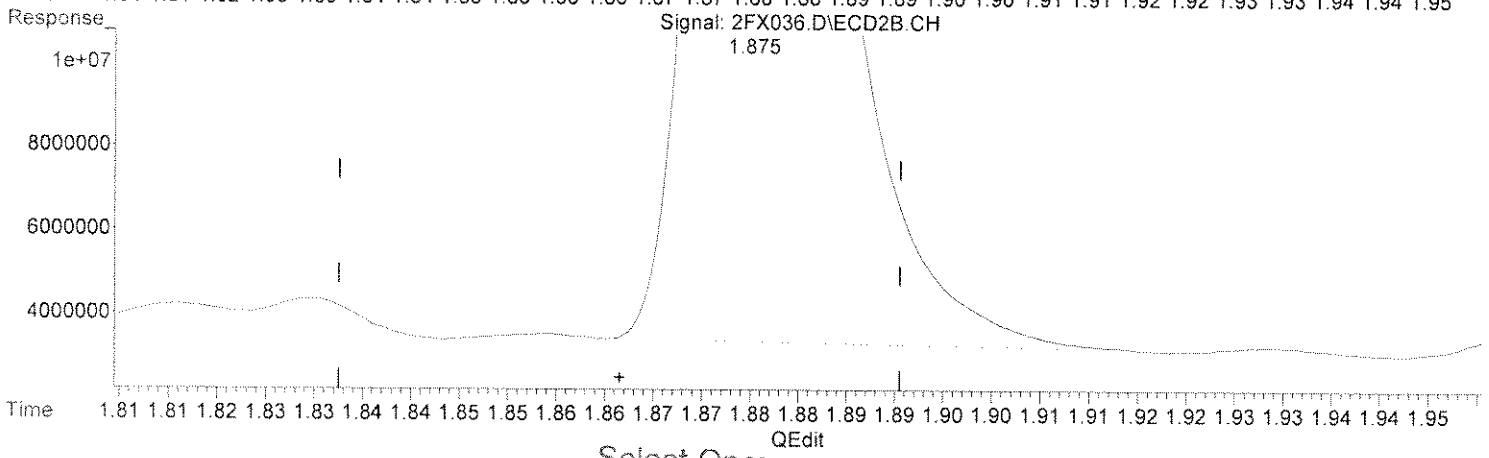
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FX13\
Data File : 2FX036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2013 15:13
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 30 08:53:45 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Sat Jun 29 08:43:25 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(2) 2,4,5,6-TCMX
1.993min 0.052 ug/mL
response 428601615

(2) 2,4,5,6-TCMX #2
1.875min 0.067 ug/mL m
response 335082169

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 7/1/17
Review by/Date RC 07/01/13

(+) = Expected Retention Time

ANALYSIS SEQUENCE

AA23829

Instrument: OSVGCECD2

Calibration ID: 1304047

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA23829-PEM1	QC		1		A3B0001	A3D0214	
AA23829-CAL1	QC		2		A3A0710	A3D0214	
AA23829-CAL2	QC		3		A3A0709	A3D0214	
AA23829-CAL3	QC		4		A3A0708	A3D0214	
AA23829-CAL4	QC		5		A3A0707	A3D0214	
AA23829-CAL5	QC		6		A3A0706	A3D0214	
AA23829-CAL6	QC		7		A3A0705	A3D0214	
AA23829-SCV1	QC		8		A3D0276	A3D0214	

Samples Loaded By Date

Data Processed By Date

Response Factor Report HP G1530A

Method Path : Y:\2\METHODS\
Method File : PEST2DJ13.M
Title : Pesticides SOP SVGC-04::OSVGCECD2
Last Update : Tue Apr 16 08:33:42 2013
Response Via : Initial Calibration

Calibration Files
cal1 =2DJ003.D cal2 =2DJ004.D cal3 =2DJ005.D
cal4 =2DJ006.D cal5 =2DJ007.D cal6 =2DJ008.D

	Compound	cal1	cal2	cal3	cal4	cal5	cal6	Avg	%RSD
1) I	DBC	----------ISTD----------							
2)	2,4,5,6-TCMX	1.355	1.167	1.413	1.389	1.279	1.264	1.311	7.04
3)	ALPHA-BHC	1.303	1.287	1.606	1.777	1.618	1.704	1.549	13.34
4)	GAMMA-BHC (LI...	1.176	1.116	1.282	1.438	1.294	1.342	1.275	9.05
5)	BETA-BHC	0.616	0.649	0.569	0.601	0.554	0.605	0.599	5.65
6)	DELTA-BHC	1.180	1.105	1.386	1.544	1.463	1.545	1.370	13.70
7)	HEPTACHLOR	1.298	1.171	1.277	1.395	1.238	1.208	1.264	6.24
8)	ALDRIN	1.471	1.362	1.754	1.830	1.713	1.749	1.647	11.26
9)	ISODRIN	1.204	1.106	1.308	1.366	1.287	1.326	1.266	7.53
10)	HEPTACHLOR EP...	1.236	1.113	1.277	1.368	1.295	1.346	1.272	7.19
11)	GAMMA CHLORDANE	1.346	1.120	1.231	1.342	1.258	1.353	1.275	7.17
12)	ALPHA CHLORDANE	1.217	1.092	1.258	1.357	1.293	1.382	1.266	8.30
13)	4,4'-DDE	1.362	1.307	1.845	1.850	1.790	1.764	1.653	15.09
14)	ENDOSULFAN I	1.179	1.063	1.228	1.337	1.240	1.298	1.224	7.86
15)	DIELDRIN	1.202	1.087	1.302	1.400	1.314	1.346	1.275	8.83
16)	ENDRIN	1.060	0.965	1.157	1.281	1.228	1.236	1.155	10.44
17)	4,4'-DDD	0.904	0.831	1.033	1.080	1.074	1.079	1.000	10.67
18)	ENDOSULFAN 2	1.018	0.923	1.081	1.137	1.072	1.074	1.051	6.96
19)	4,4'-DDT	0.905	0.729	0.806	0.899	0.933	0.921	0.865	9.32
20)	ENDRIN ALDEHYDE	0.850	0.743	0.815	0.853	0.851	0.869	0.830	5.56
21)	METHOXYCHLOR	0.389	0.393	0.435	0.446	0.450	0.426	0.423	6.22
22)	MIREX	1.188	0.949	0.894	0.878	0.817	0.800	0.921	15.34
23)	ENDOSULFAN SU...	0.965	0.895	0.982	1.006	0.978	0.948	0.962	3.97
24)	ENDRIN KETONE	1.168	0.991	1.180	1.194	1.144	1.057	1.122	7.17
25)	DECACHLOROBIP...	1.049	0.931	0.976	0.944	0.948	0.945	0.966	4.52

Signal #2 Calibration Files
cal1 =2DJ003.D cal2 =2DJ004.D cal3 =2DJ005.D
cal4 =2DJ006.D cal5 =2DJ007.D cal6 =2DJ008.D

	Compound	cal1	cal2	cal3	cal4	cal5	cal6	Avg	%RSD
1) I	DBC	----------ISTD----------							
2)	2,4,5,6-TCMX	1.877	1.576	2.049	2.032	1.924	2.070	1.921	9.65
3)	ALPHA-BHC	1.867	1.704	2.184	2.440	2.291	2.626	2.185	15.89
4)	GAMMA-BHC (LI...	1.679	1.489	1.760	1.996	1.840	2.076	1.807	11.84
5)	BETA-BHC	0.859	0.726	0.792	0.874	0.840	1.010	0.850	11.17
6)	DELTA-BHC	1.677	1.534	1.977	2.216	2.139	2.451	1.999	17.20
7)	HEPTACHLOR	1.709	1.439	1.640	1.822	1.678	1.866	1.692	8.93
8)	ALDRIN	1.977	1.772	2.367	2.511	2.420	2.713	2.293	15.32
9)	ISODRIN	1.655	1.454	1.866	1.983	1.943	2.198	1.850	14.15
10)	HEPTACHLOR EP...	1.751	1.481	1.795	1.952	1.890	2.168	1.839	12.43
11)	GAMMA CHLORDANE	1.646	1.412	1.709	1.907	1.853	2.170	1.783	14.44
12)	ALPHA CHLORDANE	1.755	1.516	1.857	2.035	1.995	2.321	1.913	14.29
13)	4,4'-DDE	2.047	1.840	2.687	2.678	2.630	2.803	2.448	16.33
14)	ENDOSULFAN I	1.588	1.366	1.667	1.838	1.797	2.080	1.723	14.10
15)	DIELDRIN	1.644	1.439	1.815	1.985	1.936	2.186	1.834	14.43
16)	ENDRIN	1.509	1.341	1.639	1.784	1.751	1.946	1.662	12.94
17)	4,4'-DDD	1.515	1.204	1.395	1.463	1.502	1.666	1.457	10.49
18)	ENDOSULFAN 2	1.494	1.292	1.555	1.666	1.638	1.811	1.576	11.17
19)	4,4'-DDT	1.011	0.953	1.178	1.316	1.341	1.436	1.206	16.01
20)	ENDRIN ALDEHYDE	1.231	1.048	1.239	1.315	1.331	1.492	1.276	11.45
21)	METHOXYCHLOR	0.621	0.572	0.622	0.622	0.617	0.628	0.614	3.37
22)	MIREX	1.300	0.981	1.163	1.248	1.257	1.378	1.221	11.22

Method Path : Y:\2\METHODS\
Method File : PEST2DJ13.M
Title : Pesticides SOP SVGC-04::OSVGCECD2
Last Update : Tue Apr 16 08:33:42 2013
Response Via : Initial Calibration

Calibration Files
cal1 =2DJ003.D cal2 =2DJ004.D cal3 =2DJ005.D
cal4 =2DJ006.D cal5 =2DJ007.D cal6 =2DJ008.D

	Compound	cal1	cal2	cal3	cal4	cal5	cal6	Avg	%RSD
23)	ENDOSULFAN SU...	1.452	1.258	1.491	1.566	1.572	1.688	1.504	9.68
24)	ENDRIN KETONE	1.723	1.453	1.679	1.710	1.700	1.736	1.667	6.40
25)	DECACHLOROBIP...	1.936	1.530	1.825	1.774	1.799	1.944	1.801	8.36

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 9:56
Operator : RC
Sample : AA23829-PEM1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 16 09:46:07 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.310	5.219	361.1E6	158.3E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	0.000	0.000	0	0	N.D. d	N.D. d
3)	ALPHA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	GAMMA-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
5)	BETA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	DELTA-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	HEPTACHLOR	0.000	0.000	0	0	N.D. d	N.D. d
8)	ALDRIN	0.000	0.000	0	0	N.D. d	N.D. d
9)	ISODRIN	0.000	0.000	0	0	N.D. d	N.D. d
10)	HEPTACHLO...	0.000	0.000	0	0	N.D. d	N.D. d
11)	GAMMA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
12)	ALPHA CHL...	0.000	0.000	0	0	N.D. d	N.D. d
13)	4,4'-DDE	3.951	3.940	1515745	2230298	0.0074	0.0004 #
14)	ENDOSULFAN I	0.000	0.000	0	0	N.D. d	N.D. d
15)	DIELDRIN	0.000	0.000	0	0	N.D. d	N.D. d
16)	ENDRIN	4.363	4.293	540.1E6	436.7E6	0.0956	0.1407 #
17)	4,4'-DDD	4.437	4.410	38787108	29669815	0.0083	0.0109 #
18)	ENDOSULFAN 2	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDT	4.645	4.646	899.6E6	658.6E6	0.1884	0.2543 #
20)	ENDRIN AL...	0.000	0.000	0	0	N.D. d	N.D. d
21)	METHOXYCHLOR	0.000	0.000	0	0	N.D. d	N.D. d
22)	MIREX	0.000	0.000	0	0	N.D. d	N.D. d
23)	ENDOSULFA...	0.000	0.000	0	0	N.D. d	N.D. d
24)	ENDRIN KE...	5.349	5.287	18175855	6870386	0.0033	0.0023 #
25)	DECACHLOR...	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

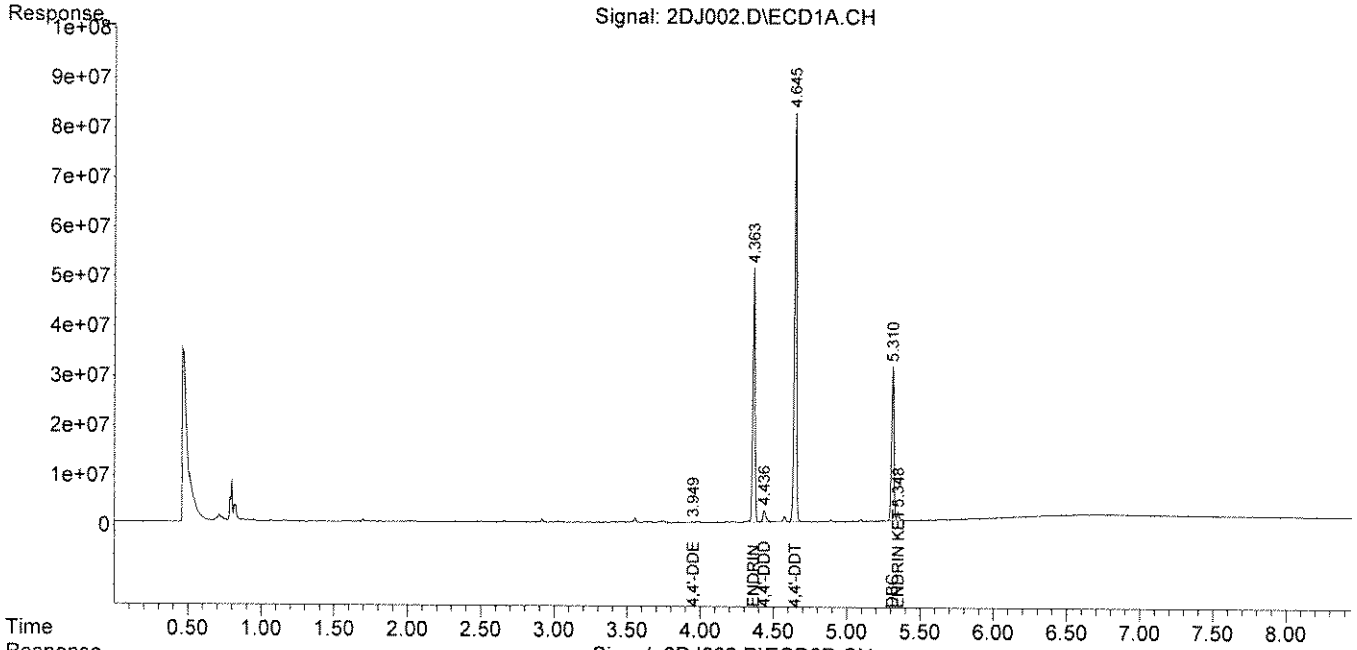
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

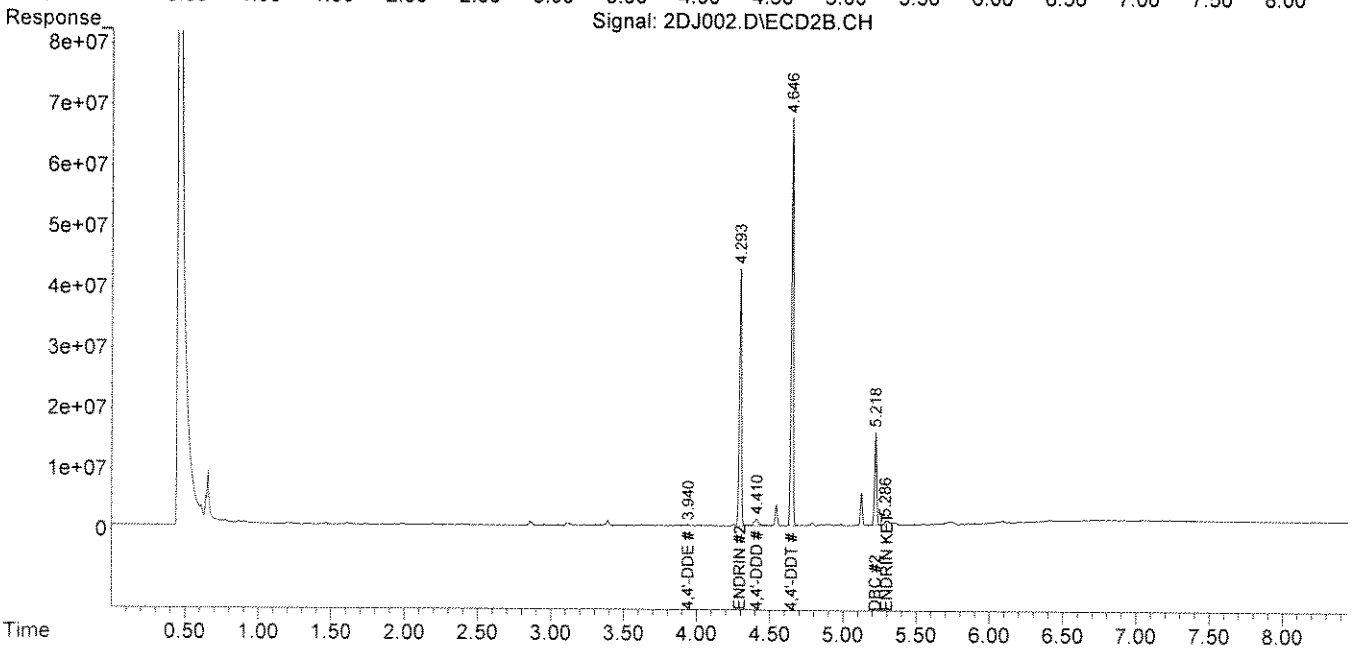
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 9:56
Operator : RC
Sample : AA23829-PEM1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 16 09:46:07 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:08
Operator : RC
Sample : AA23829-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:08:49 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.309	5.217	322.2E6	199.3E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	2.003	1.894	21833109	18706412	0.0025	0.0024	
3)	ALPHA-BHC	2.361	2.265	20984197	18603039	0.0116	0.0033	#
4)	GAMMA-BHC...	2.577	2.498	18940421	16731798	0.0033	0.0036	
5)	BETA-BHC	2.642	2.563	9917492	8564372	0.0036	0.0039	
6)	DELTA-BHC	2.769	2.765	19003739	16709306	0.0135	0.0033	#
7)	HEPTACHLOR	2.924	2.797	20915327	17032199	0.0036	0.0040	
8)	ALDRIN	3.154	3.032	23690552	19701454	0.0126	0.0109	
9)	ISODRIN	3.421	3.340	19393775	16489747	0.0036	0.0036	
10)	HEPTACHLO...	3.650	3.492	19908311	17450309	0.0033	0.0037	
11)	GAMMA CHL...	3.758	3.652	21687738	16401384	0.0038	0.0037	
12)	ALPHA CHL...	3.872	3.777	19599070	17488759	0.0033	0.0034	
13)	4,4'-DDE	3.950	3.942	21945500	20402934	0.0095	0.0030	#
14)	ENDOSULFAN I	3.983	3.820	18989131	15825075	0.0034	0.0037	
15)	DIELDRIN	4.181	4.052	19366293	16378435	0.0034	0.0035	
16)	ENDRIN	4.362	4.293	17077674	15033411	0.0034	0.0038	
17)	4,4'-DDD	4.432	4.412	14563821	15093973	0.0035	0.0044	
18)	ENDOSULFAN 2	4.536	4.465	16394917	14887570	0.0030	0.0039	#
19)	4,4'-DDT	4.643	4.645	14575874	10071495	0.0031	0.0031	
20)	ENDRIN AL...	4.848	4.722	13691063	12268099	0.0043	0.0038	
21)	METHOXYCHLOR	5.008	5.151	6270644	6185210	0.0030	0.0041	#
22)	MIREX	5.083	5.232	19130561	12954807	0.0052	0.0046m	
23)	ENDOSULFA...	5.157	4.922	15538162	14466489	0.0037	0.0039	
24)	ENDRIN KE...	5.348	5.285	18817067	17174714	0.0038	0.0045	
25)	DECACHLOR...	6.021	6.088	16903930	19289487	0.0036	0.0040	

SemiQuant Compounds - Not Calibrated on this Instrument

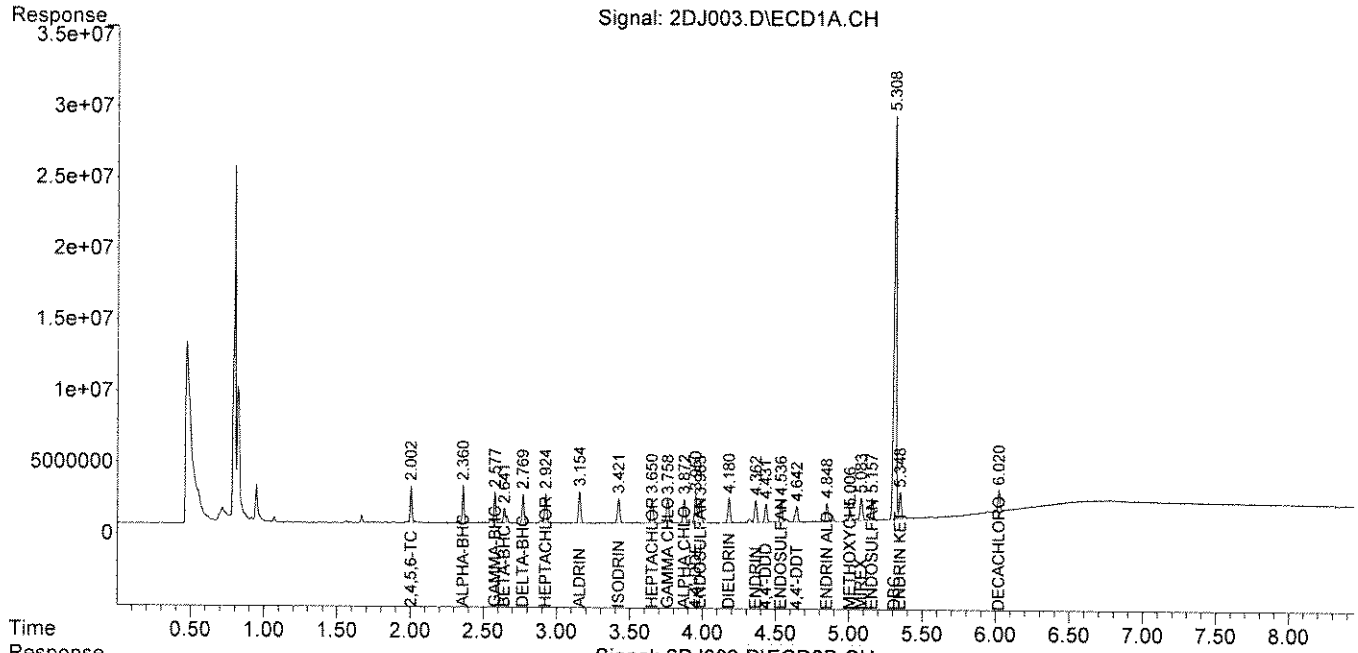
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

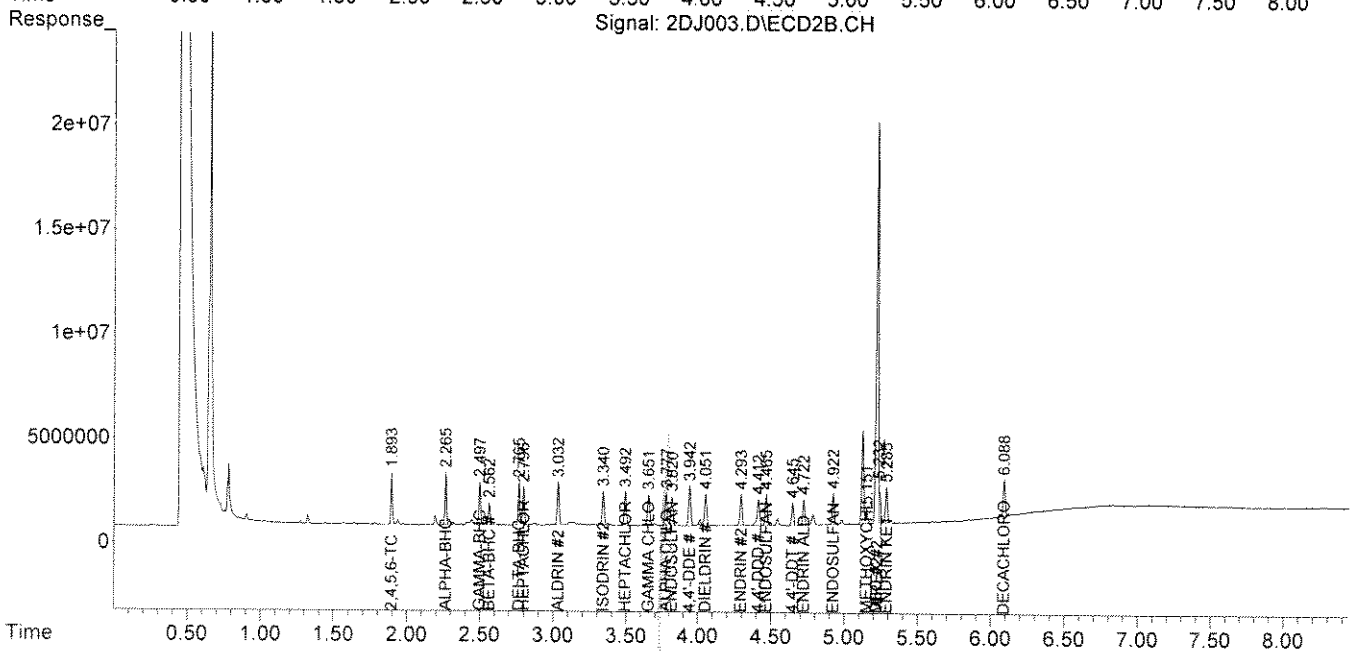
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:08
Operator : RC
Sample : AA23829-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:08:49 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



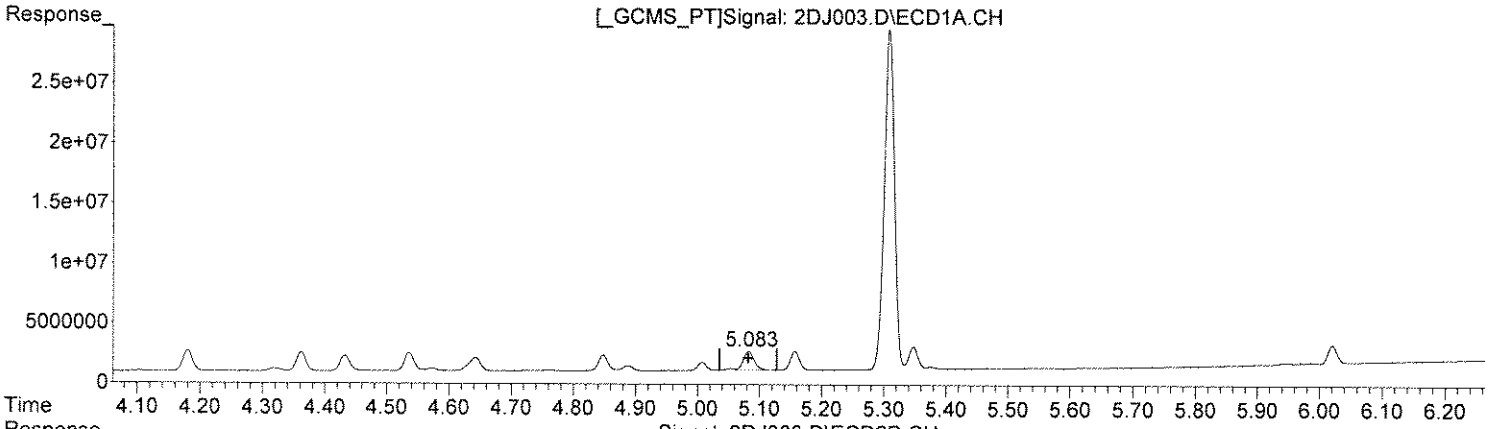


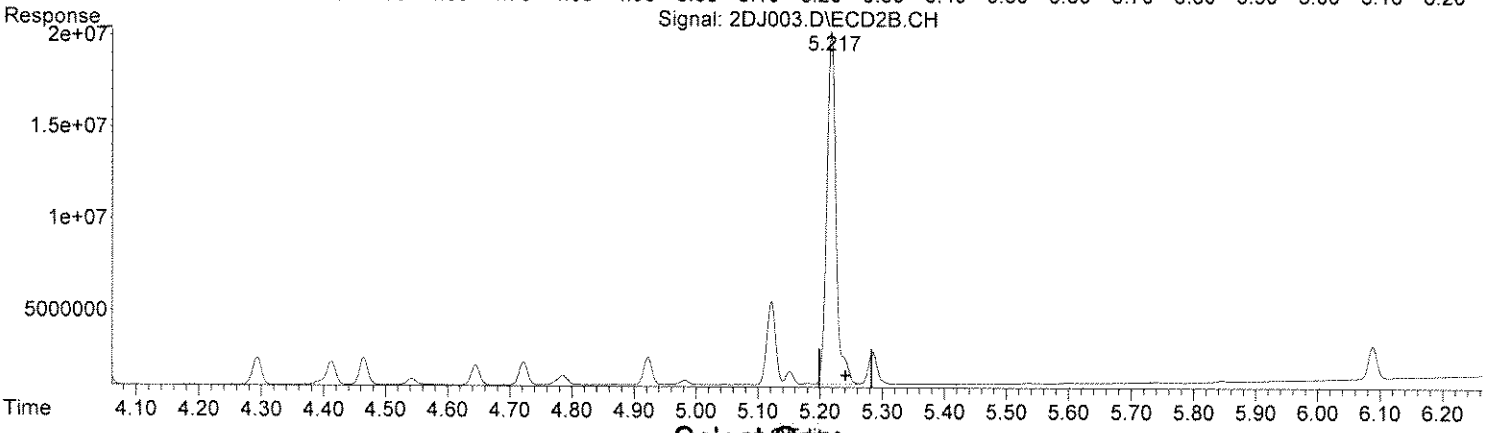
Quantitation Report (Qedit)

Data Path : Z:\2\DATA\2DJ13\
Data File : 2DJ003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:08 am
Operator : RC
Sample : AA23829-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 15 12:00:01 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(22) MIREX
5.083min 0.005 ug/mL
response 19130561

(22) MIREX #2
5.217min 0.071 ug/mL
response 199308855

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date L Covarrubia
Review by/Date: 9/15/15

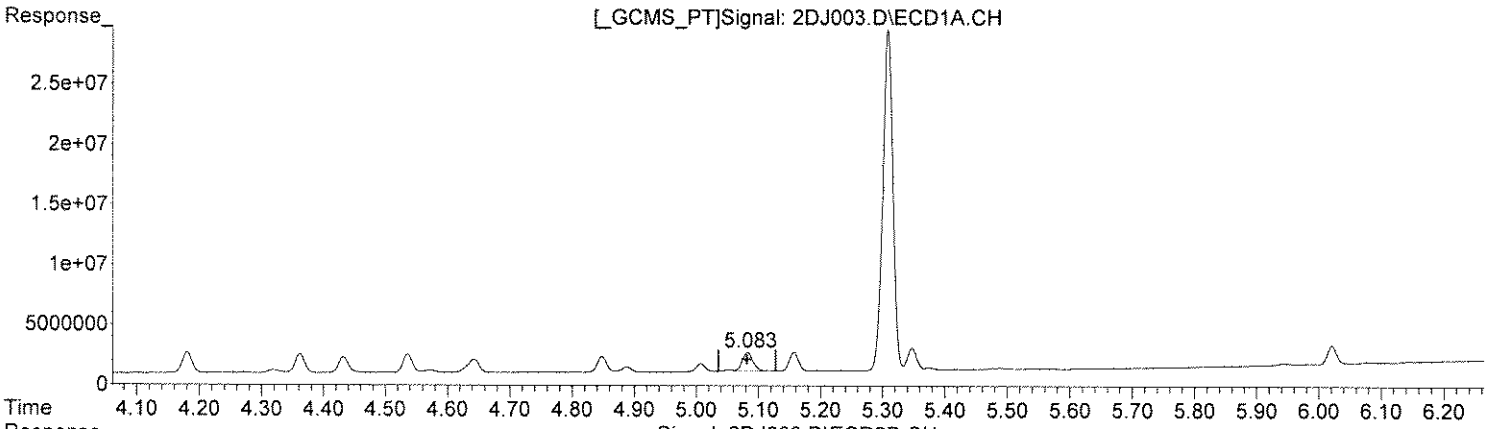
(+) = Expected Retention Time
PEST2DJ13.M Mon Apr 15 12:08:43 2013

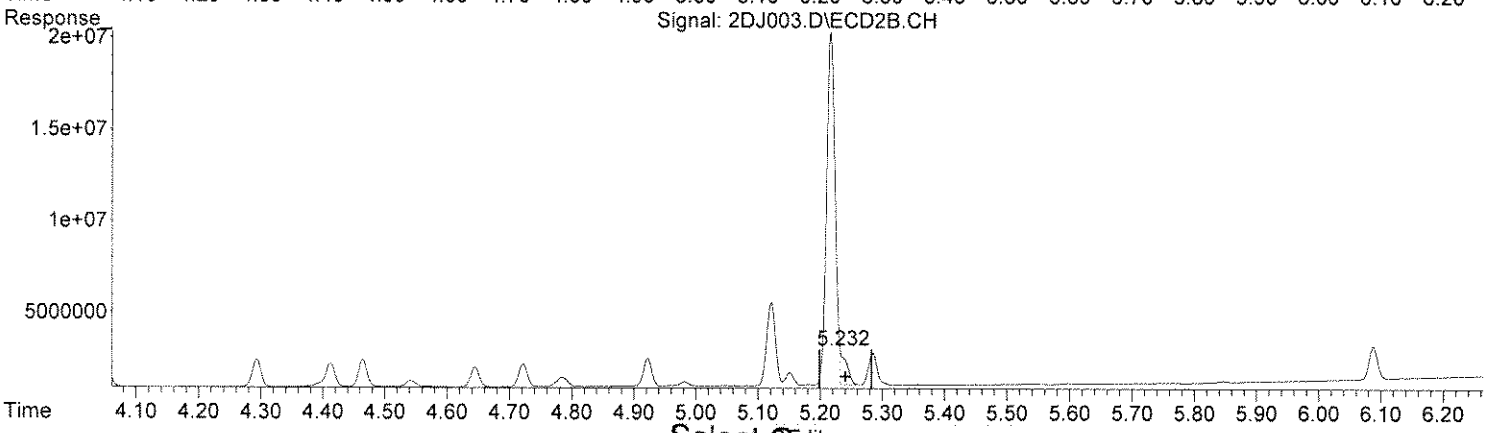
Quantitation Report (Qedit)

Data Path : Z:\2\DATA\2DJ13\
Data File : 2DJ003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:08 am
Operator : RC
Sample : AA23829-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 15 12:00:01 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(22) MIREX
5.083min 0.005 ug/mL
response 19130561

(22) MIREX #2
5.232min 0.005 ug/mL m
response 12954807

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[✓] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date RC 04/15/13
Review by/Date: 4/15/13

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:20
Operator : RC
Sample : AA23829-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:10:41 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.309	5.218	397.7E6	251.2E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	2.003	1.894	46412023	39587804	0.0044	0.0041	
3)	ALPHA-BHC	2.361	2.266	51171863	42807294	0.0138	0.0060	#
4)	GAMMA-BHC...	2.578	2.498	44386117	37394648	0.0062	0.0064	
5)	BETA-BHC	2.642	2.563	25826002	18232123	0.0076	0.0066	
6)	DELTA-BHC	2.770	2.766	43954457	38537902	0.0155	0.0060	#
7)	HEPTACHLOR	2.925	2.797	46557852	36152513	0.0065	0.0068	
8)	ALDRIN	3.155	3.033	54185482	44517651	0.0146	0.0130	
9)	ISODRIN	3.422	3.341	43975844	36529191	0.0066	0.0063	
10)	HEPTACHLO...	3.650	3.493	44264118	37196663	0.0060	0.0063	
11)	GAMMA CHL...	3.759	3.653	44554863	35473195	0.0063	0.0063	
12)	ALPHA CHL...	3.873	3.778	43424949	38083762	0.0059	0.0058	
13)	4,4'-DDE	3.951	3.943	51978066	46226550	0.0116	0.0055	#
14)	ENDOSULFAN I	3.984	3.821	42289348	34317573	0.0061	0.0063	
15)	DIELDRIN	4.181	4.052	43242349	36149926	0.0062	0.0061	
16)	ENDRIN	4.362	4.295	38391342	33678867	0.0062	0.0068	
17)	4,4'-DDD	4.433	4.413	33067524	30252287	0.0065	0.0070	
18)	ENDOSULFAN 2	4.537	4.466	36696352	32460891	0.0054	0.0067	
19)	4,4'-DDT	4.644	4.646	28988422	23934770	0.0052	0.0058	
20)	ENDRIN AL...	4.848	4.723	29556775	26324166	0.0068	0.0064	
21)	METHOXYCHLOR	5.008	5.152	15620328	14370385	0.0061	0.0075	
22)	MIREX	5.082	5.239	37757149	24637673	0.0084	0.0070m	
23)	ENDOSULFA...	5.157	4.923	35590623	31591004	0.0069	0.0068	
24)	ENDRIN KE...	5.348	5.286	39431284	36493310	0.0065	0.0075	
25)	DECACHLOR...	6.021	6.089	37017117	38420367	0.0064	0.0064	

SemiQuant Compounds - Not Calibrated on this Instrument

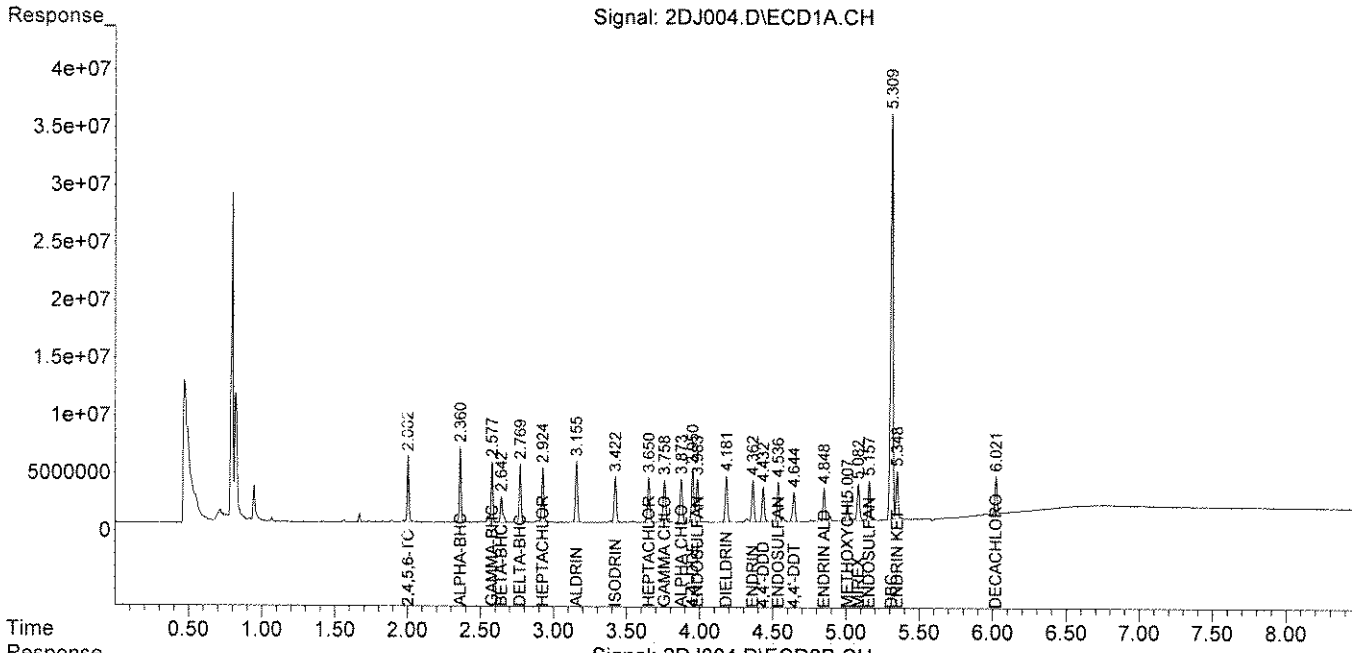
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

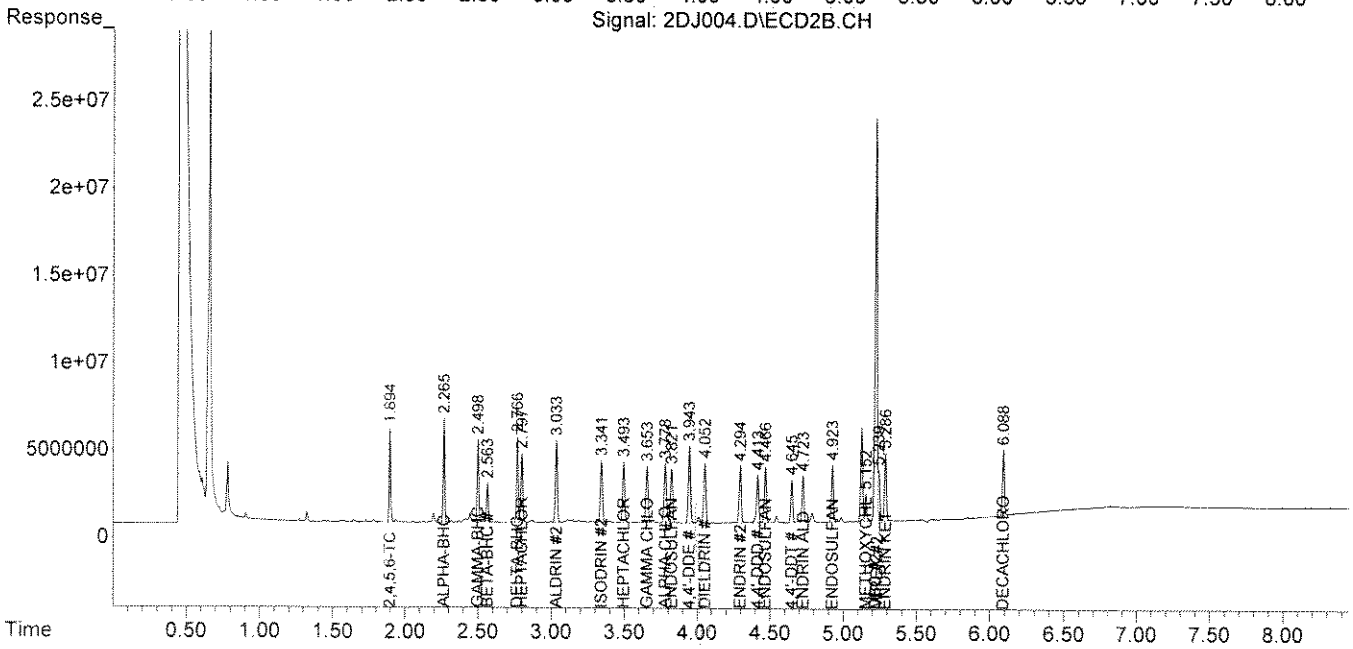
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:20
Operator : RC
Sample : AA23829-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:10:41 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



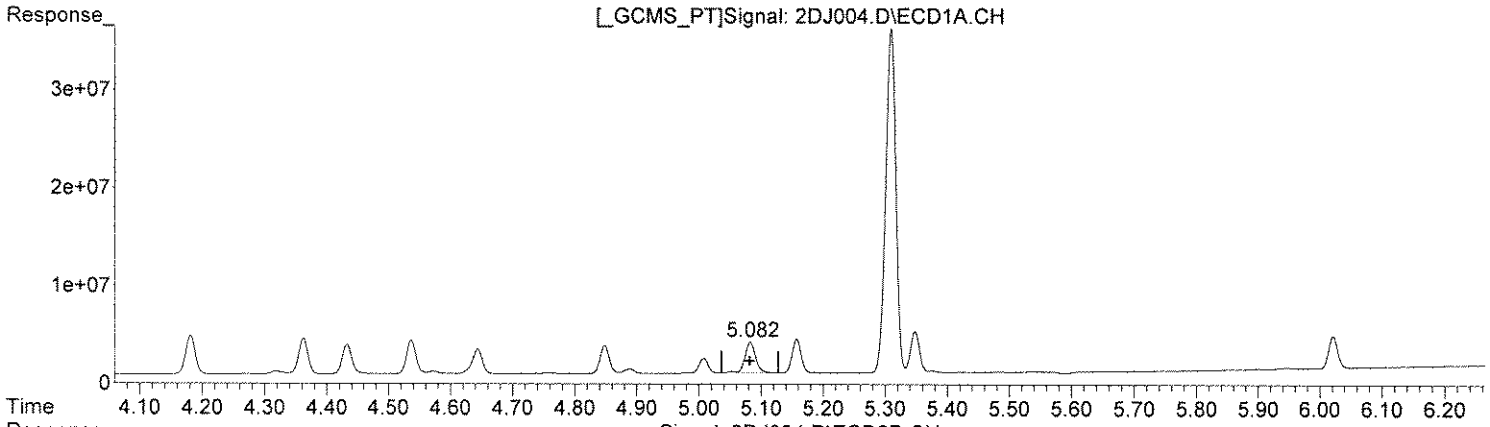


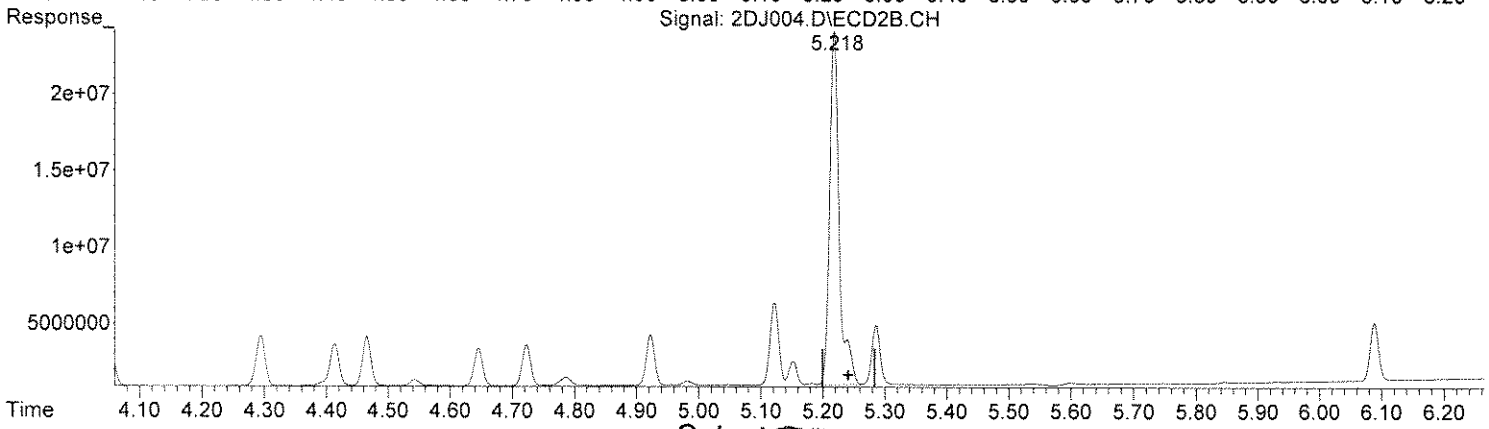
Quantitation Report (Qedit)

Data Path : Z:\2\DATA\2DJ13\
Data File : 2DJ004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:20 am
Operator : RC
Sample : AA23829-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 15 12:00:07 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(22) MIREX
5.082min 0.008 ug/mL
response 37757149

(22) MIREX #2
5.218min 0.071 ug/mL
response 251192302

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date RC 04/15/13
Review by/Date: 9 4/15/13

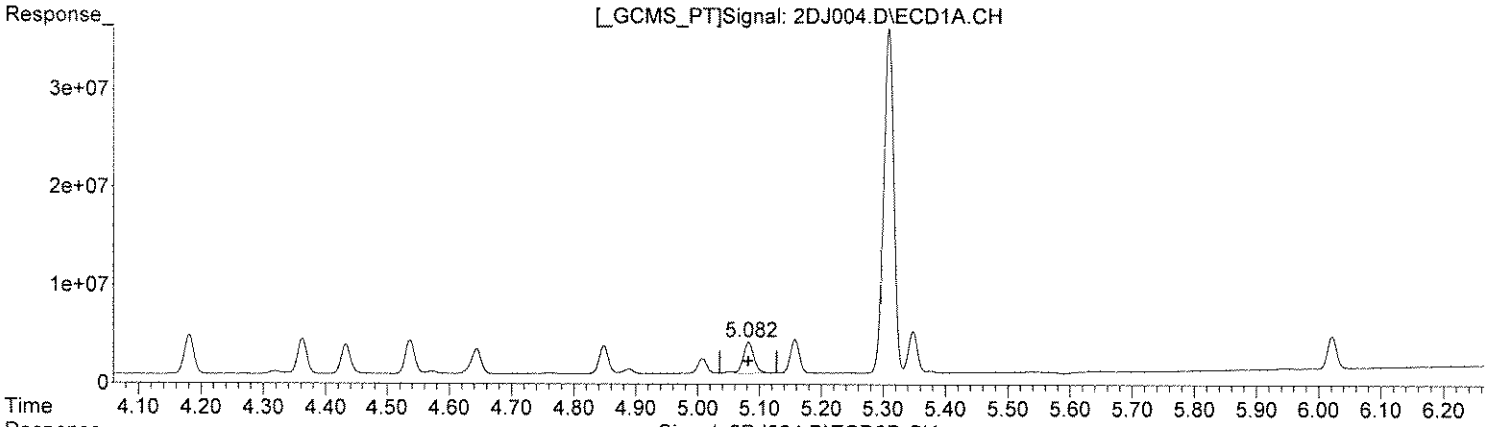
(+) = Expected Retention Time

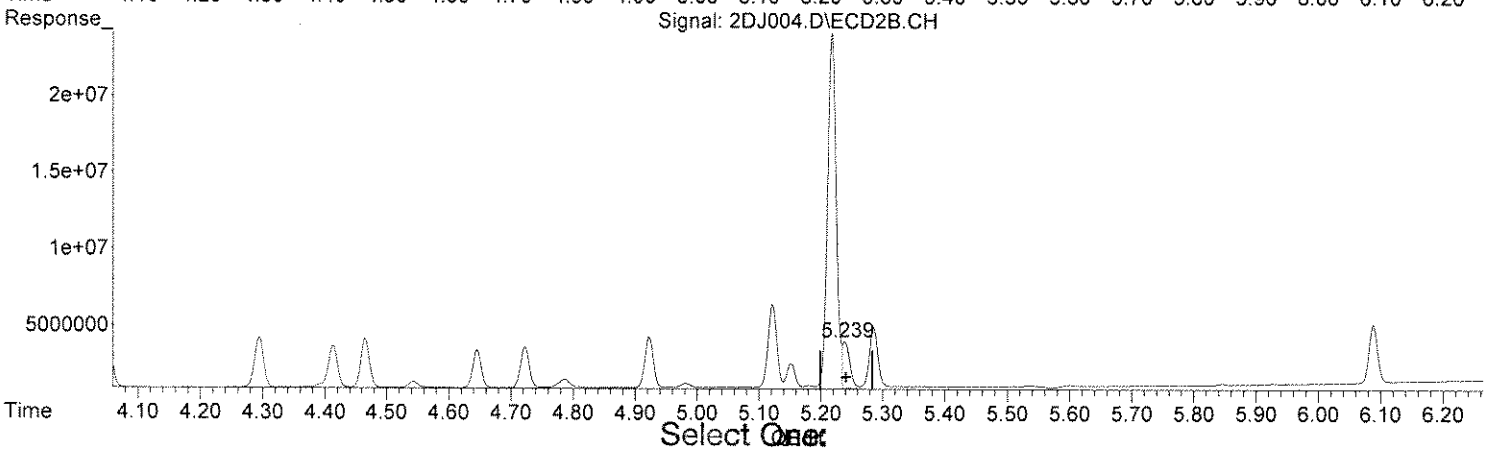
Quantitation Report (Qedit)

Data Path : Z:\2\DATA\2DJ13\
Data File : 2DJ004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:20 am
Operator : RC
Sample : AA23829-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 15 12:00:07 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(22) MIREX
5.082min 0.008 ug/mL
response 37757149

(22) MIREX #2
5.239min 0.007 ug/mL m
response 24637673

Select One:
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[] Poor integration (peak tailing, baseline selection)
[✓] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date RC 04/15/13
Review by/Date: 4/15/13

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:32
Operator : RC
Sample : AA23829-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:13 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.309	5.219	344.1E6	198.2E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	2.003	1.894	243.1E6	203.1E6	0.0266	0.0266	
3)	ALPHA-BHC	2.361	2.266	276.3E6	216.4E6	0.0373	0.0382	
4)	GAMMA-BHC...	2.578	2.499	220.5E6	174.5E6	0.0357	0.0378	
5)	BETA-BHC	2.642	2.564	97940321	78455748	0.0334	0.0362	
6)	DELTA-BHC	2.770	2.767	238.4E6	195.9E6	0.0384	0.0386	
7)	HEPTACHLOR	2.925	2.798	219.6E6	162.5E6	0.0357	0.0387	
8)	ALDRIN	3.156	3.034	301.7E6	234.6E6	0.0379	0.0399	
9)	ISODRIN	3.423	3.342	225.0E6	185.0E6	0.0388	0.0407	
10)	HEPTACHLO...	3.651	3.494	219.7E6	177.9E6	0.0342	0.0383	
11)	GAMMA CHL...	3.759	3.653	211.7E6	169.4E6	0.0347	0.0380	
12)	ALPHA CHL...	3.873	3.779	216.3E6	184.0E6	0.0343	0.0356	
13)	4,4'-DDE	3.951	3.944	317.4E6	266.3E6	0.0379	0.0398	
14)	ENDOSULFAN I	3.984	3.822	211.3E6	165.2E6	0.0350	0.0384	
15)	DIELDRIN	4.181	4.053	223.9E6	179.9E6	0.0369	0.0388	
16)	ENDRIN	4.363	4.295	199.1E6	162.4E6	0.0370	0.0418	
17)	4,4'-DDD	4.433	4.414	177.7E6	138.2E6	0.0401	0.0404	
18)	ENDOSULFAN 2	4.537	4.466	186.0E6	154.1E6	0.0315	0.0402	#
19)	4,4'-DDT	4.645	4.647	138.6E6	116.8E6	0.0302	0.0360	
20)	ENDRIN AL...	4.848	4.723	140.2E6	122.8E6	0.0329	0.0378	
21)	METHOXYCHLOR	5.008	5.153	74903145	61635134	0.0336	0.0406	
22)	MIREX	5.082	5.240	153.9E6	115.3E6	0.0395	0.0414	
23)	ENDOSULFA...	5.157	4.923	168.9E6	147.8E6	0.0376	0.0404	
24)	ENDRIN KE...	5.348	5.286	202.9E6	166.4E6	0.0388	0.0435	
25)	DECACHLOR...	6.021	6.089	167.9E6	180.9E6	0.0337	0.0381	

SemiQuant Compounds - Not Calibrated on this Instrument

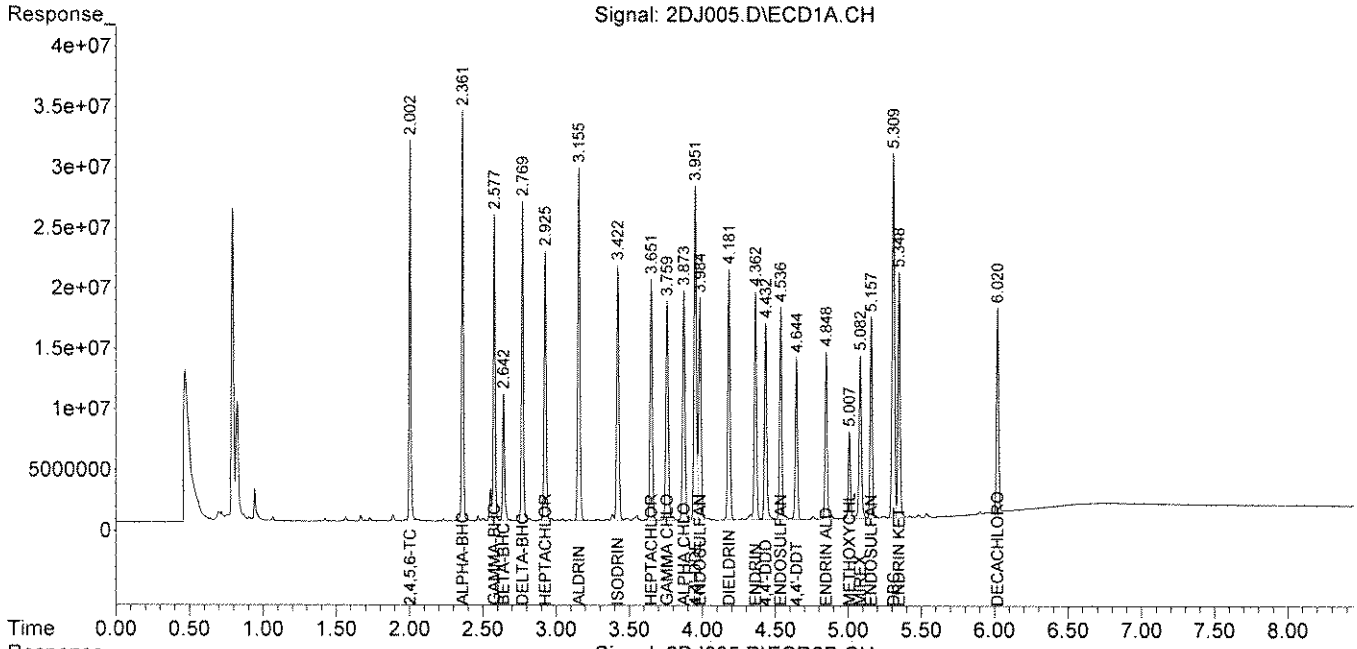
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

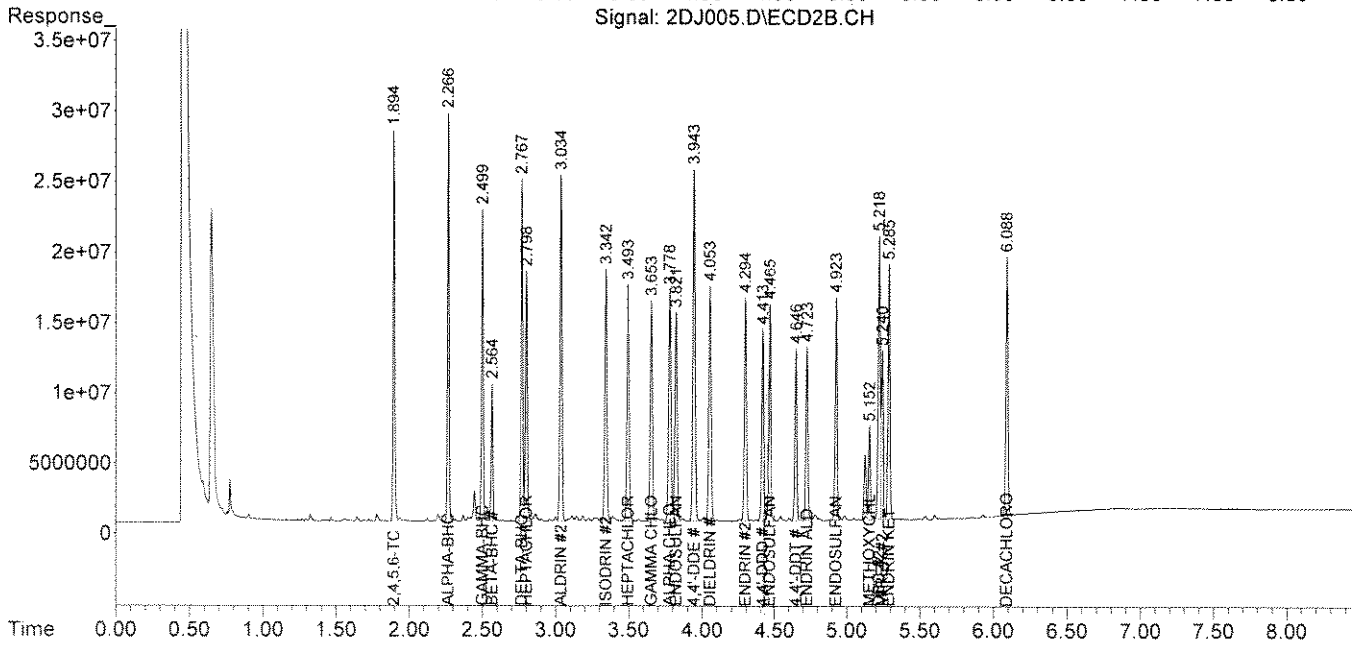
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:32
Operator : RC
Sample : AA23829-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:13 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:44
Operator : RC
Sample : AA23829-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:18 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.310	5.220	376.4E6	210.0E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	2.004	1.895	522.9E6	426.7E6	0.0523	0.0528	
3)	ALPHA-BHC	2.363	2.267	668.8E6	512.4E6	0.0712	0.0853	
4)	GAMMA-BHC...	2.579	2.500	541.2E6	419.2E6	0.0802	0.0857	
5)	BETA-BHC	2.643	2.565	226.4E6	183.5E6	0.0705	0.0799	
6)	DELTA-BHC	2.771	2.768	581.3E6	465.5E6	0.0719	0.0865	
7)	HEPTACHLOR	2.926	2.799	525.3E6	382.6E6	0.0780	0.0859	
8)	ALDRIN	3.156	3.035	688.8E6	527.5E6	0.0679	0.0754	
9)	ISODRIN	3.423	3.343	514.4E6	416.5E6	0.0810	0.0866	
10)	HEPTACHLO...	3.652	3.495	515.0E6	410.0E6	0.0734	0.0833	
11)	GAMMA CHL...	3.760	3.655	505.1E6	400.6E6	0.0756	0.0847	
12)	ALPHA CHL...	3.874	3.780	510.9E6	427.5E6	0.0740	0.0780	
13)	4,4'-DDE	3.952	3.945	696.6E6	562.5E6	0.0688	0.0794	
14)	ENDOSULFAN I	3.985	3.823	503.1E6	386.0E6	0.0762	0.0846	
15)	DIELDRIN	4.182	4.054	527.0E6	417.0E6	0.0793	0.0848	
16)	ENDRIN	4.364	4.296	482.1E6	374.8E6	0.0819	0.0910	
17)	4,4'-DDD	4.433	4.415	406.7E6	307.3E6	0.0839	0.0847	
18)	ENDOSULFAN 2	4.537	4.468	427.8E6	349.9E6	0.0663	0.0862	#
19)	4,4'-DDT	4.646	4.648	338.5E6	276.4E6	0.0678	0.0804	
20)	ENDRIN AL...	4.849	4.724	321.2E6	276.2E6	0.0678	0.0802	
21)	METHOXYCHLOR	5.009	5.154	167.8E6	130.7E6	0.0689	0.0813	
22)	MIREX	5.083	5.242	330.6E6	262.2E6	0.0776	0.0888	
23)	ENDOSULFA...	5.158	4.925	378.6E6	328.9E6	0.0770	0.0849	
24)	ENDRIN KE...	5.349	5.287	449.5E6	359.2E6	0.0786	0.0887	
25)	DECACHLOR...	6.021	6.090	355.3E6	372.7E6	0.0652	0.0740	

SemiQuant Compounds - Not Calibrated on this Instrument

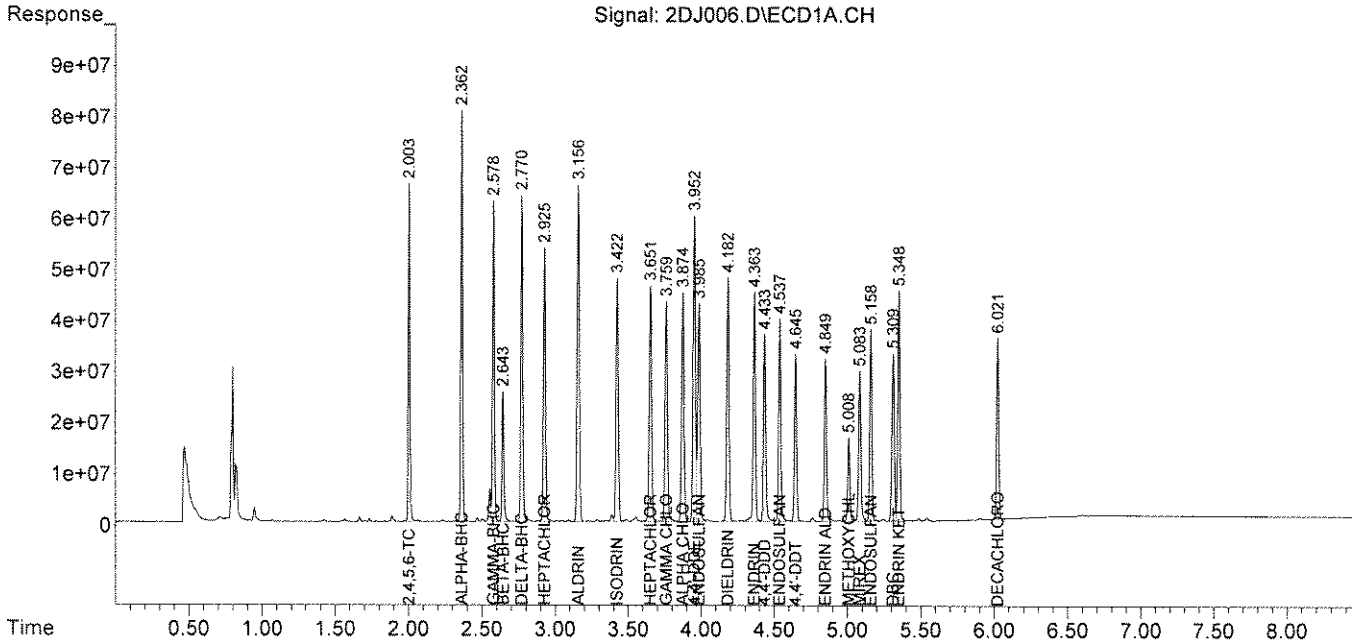
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

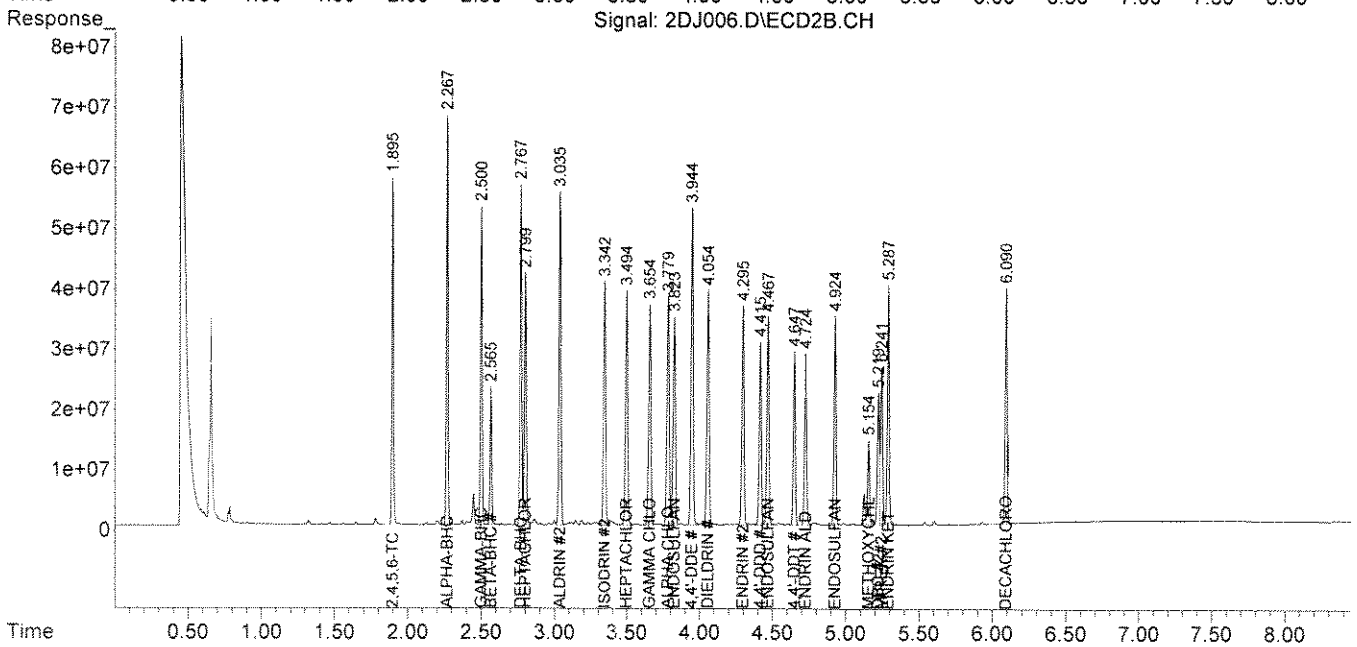
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:44
Operator : RC
Sample : AA23829-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:18 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:56
Operator : RC
Sample : AA23829-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:24 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.310	5.220	413.8E6	220.4E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	2.003	1.895	1058.4E6	848.2E6	0.0962	0.1001	
3)	ALPHA-BHC	2.362	2.268	1339.2E6	1009.8E6	0.1221	0.1601	#
4)	GAMMA-BHC...	2.579	2.500	1071.1E6	811.2E6	0.1444	0.1580	
5)	BETA-BHC	2.643	2.566	458.9E6	370.5E6	0.1300	0.1537	
6)	DELTA-BHC	2.771	2.769	1210.4E6	943.0E6	0.1261	0.1670	#
7)	HEPTACHLOR	2.926	2.800	1024.3E6	739.5E6	0.1384	0.1582	
8)	ALDRIN	3.156	3.036	1418.1E6	1066.9E6	0.1182	0.1376	
9)	ISODRIN	3.423	3.343	1065.1E6	856.6E6	0.1526	0.1697	
10)	HEPTACHLO...	3.652	3.495	1071.6E6	833.3E6	0.1389	0.1613	
11)	GAMMA CHL...	3.760	3.655	1041.2E6	816.8E6	0.1417	0.1646	
12)	ALPHA CHL...	3.874	3.780	1070.2E6	879.3E6	0.1409	0.1529	
13)	4,4'-DDE	3.952	3.945	1481.7E6	1159.5E6	0.1263	0.1560	
14)	ENDOSULFAN I	3.985	3.824	1026.1E6	792.3E6	0.1414	0.1656	
15)	DIELDRIN	4.182	4.055	1087.1E6	853.6E6	0.1488	0.1655	
16)	ENDRIN	4.364	4.297	1016.5E6	771.9E6	0.1571	0.1786	
17)	4,4'-DDD	4.433	4.415	889.1E6	662.2E6	0.1669	0.1740	
18)	ENDOSULFAN 2	4.537	4.468	887.3E6	721.9E6	0.1251	0.1694	#
19)	4,4'-DDT	4.645	4.648	772.3E6	591.2E6	0.1411	0.1640	
20)	ENDRIN AL...	4.849	4.725	704.0E6	586.6E6	0.1343	0.1623	
21)	METHOXYCHLOR	5.009	5.154	372.5E6	271.8E6	0.1390	0.1612	
22)	MIREX	5.083	5.242	676.0E6	553.9E6	0.1444	0.1787	
23)	ENDOSULFA...	5.158	4.925	809.4E6	692.9E6	0.1498	0.1704	
24)	ENDRIN KE...	5.348	5.287	946.9E6	749.6E6	0.1506	0.1764	
25)	DECACHLOR...	6.021	6.090	784.6E6	793.1E6	0.1309	0.1502	

SemiQuant Compounds - Not Calibrated on this Instrument

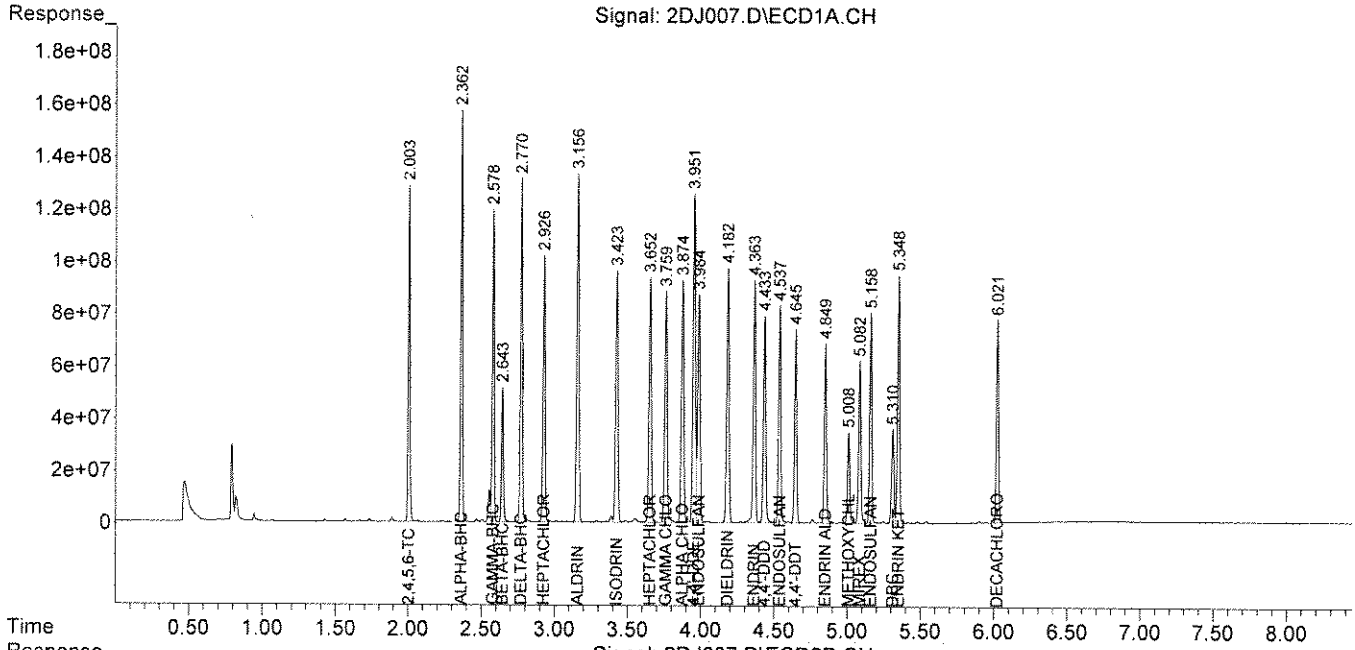
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

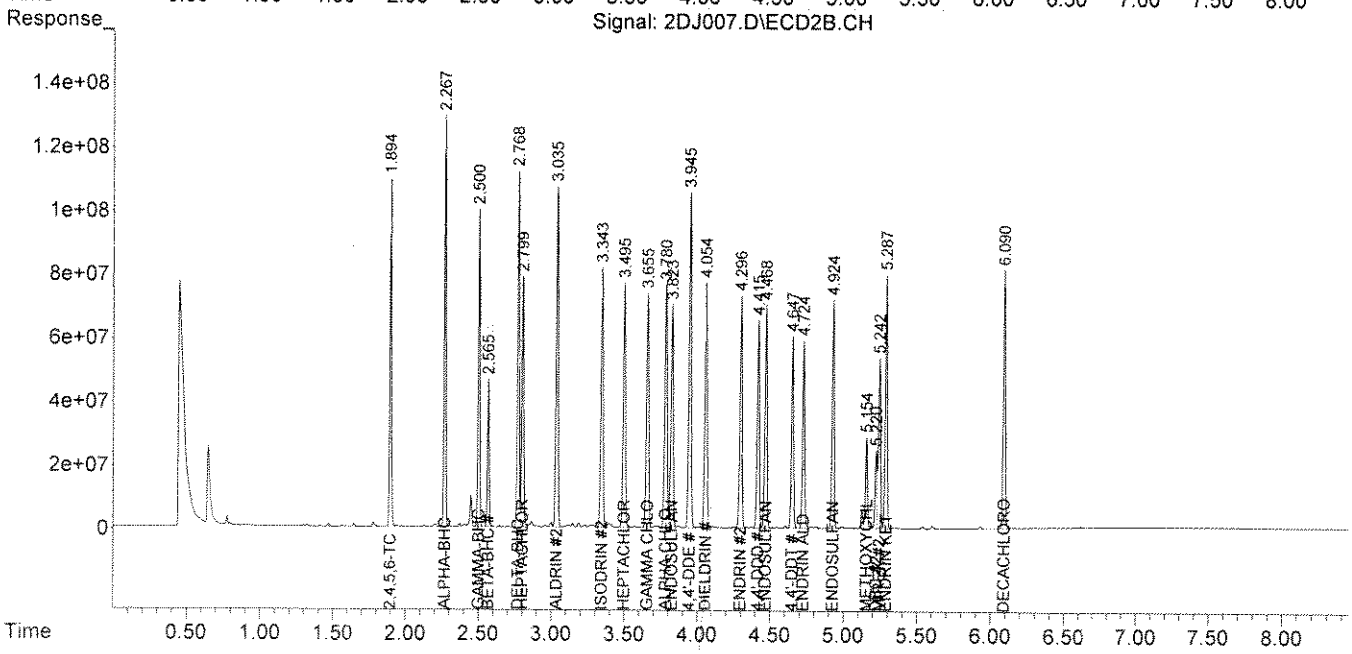
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 10:56
Operator : RC
Sample : AA23829-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:24 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 11:08
Operator : RC
Sample : AA23829-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:29 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Internal Standards							
1) I	DBC	5.309	5.219	407.9E6	195.3E6	0.1000	0.1000	
	Target Compounds							
2)	2,4,5,6-TCMX	2.004	1.896	2061.7E6	1617.1E6	0.1901	0.2154	
3)	ALPHA-BHC	2.362	2.267	2779.6E6	2051.2E6	0.2468	0.3671	#
4)	GAMMA-BHC...	2.579	2.500	2190.2E6	1621.2E6	0.2995	0.3564	
5)	BETA-BHC	2.643	2.565	987.7E6	788.6E6	0.2838	0.3694	#
6)	DELTA-BHC	2.771	2.768	2520.8E6	1914.2E6	0.2540	0.3825	#
7)	HEPTACHLOR	2.926	2.799	1970.6E6	1457.3E6	0.2701	0.3518	#
8)	ALDRIN	3.156	3.035	2853.8E6	2119.3E6	0.2307	0.2982	#
9)	ISODRIN	3.423	3.343	2164.0E6	1716.9E6	0.3145	0.3839	
10)	HEPTACHLO...	3.651	3.495	2195.2E6	1693.2E6	0.2886	0.3699	#
11)	GAMMA CHL...	3.760	3.654	2206.7E6	1694.6E6	0.3047	0.3855	#
12)	ALPHA CHL...	3.874	3.779	2254.0E6	1813.0E6	0.3011	0.3557	
13)	4,4'-DDE	3.951	3.945	2877.2E6	2189.6E6	0.2418	0.3325	#
14)	ENDOSULFAN I	3.984	3.823	2117.8E6	1624.9E6	0.2961	0.3832	#
15)	DIELDRIN	4.182	4.054	2195.5E6	1707.7E6	0.3049	0.3737	
16)	ENDRIN	4.363	4.295	2016.1E6	1520.3E6	0.3160	0.3970	#
17)	4,4'-DDD	4.432	4.414	1760.9E6	1301.3E6	0.3354	0.3860	
18)	ENDOSULFAN 2	4.536	4.466	1752.0E6	1414.8E6	0.2506	0.3747	#
19)	4,4'-DDT	4.645	4.647	1502.2E6	1121.9E6	0.2787	0.3511	#
20)	ENDRIN AL...	4.848	4.723	1417.8E6	1165.7E6	0.2735	0.3641	#
21)	METHOXYCHLOR	5.008	5.153	695.4E6	490.5E6	0.2634	0.3284	
22)	MIREX	5.081	5.241	1305.4E6	1076.3E6	0.2829	0.3919	#
23)	ENDOSULFA...	5.157	4.923	1546.3E6	1318.6E6	0.2903	0.3660	#
24)	ENDRIN KE...	5.347	5.286	1724.3E6	1355.7E6	0.2783	0.3601	#
25)	DECACHLOR...	6.021	6.089	1542.3E6	1518.2E6	0.2611	0.3245	

SemiQuant Compounds - Not Calibrated on this Instrument

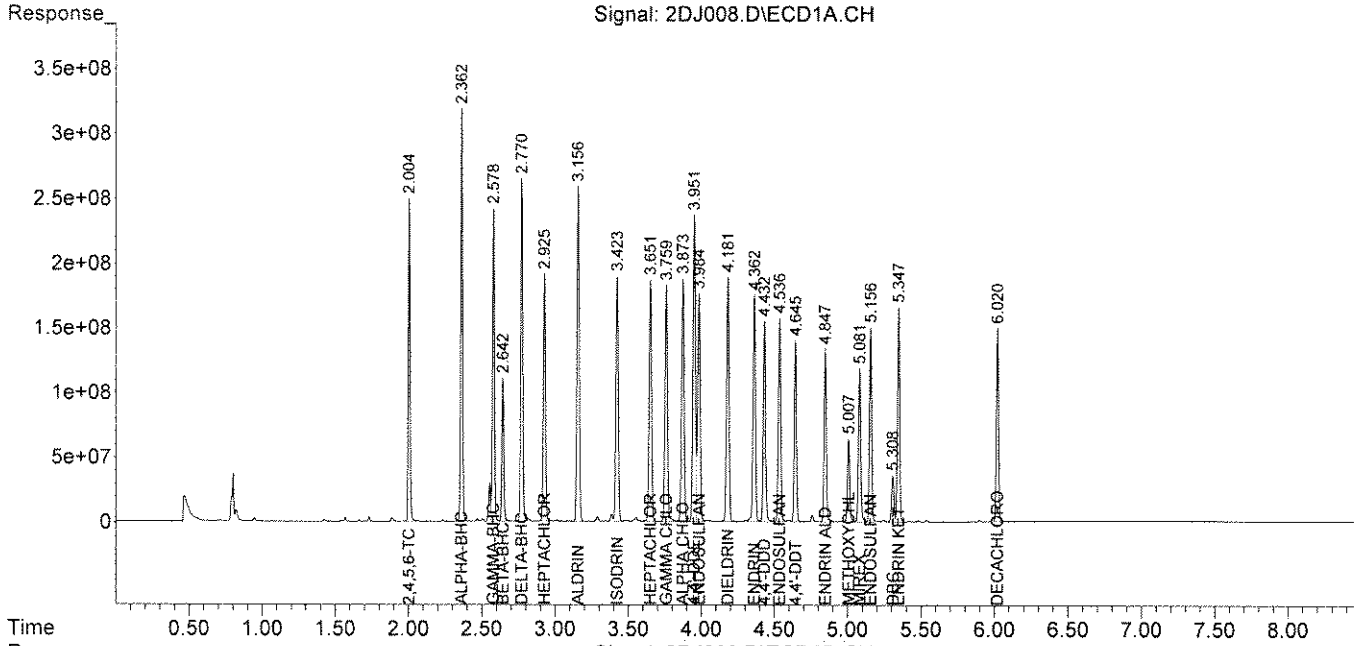
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

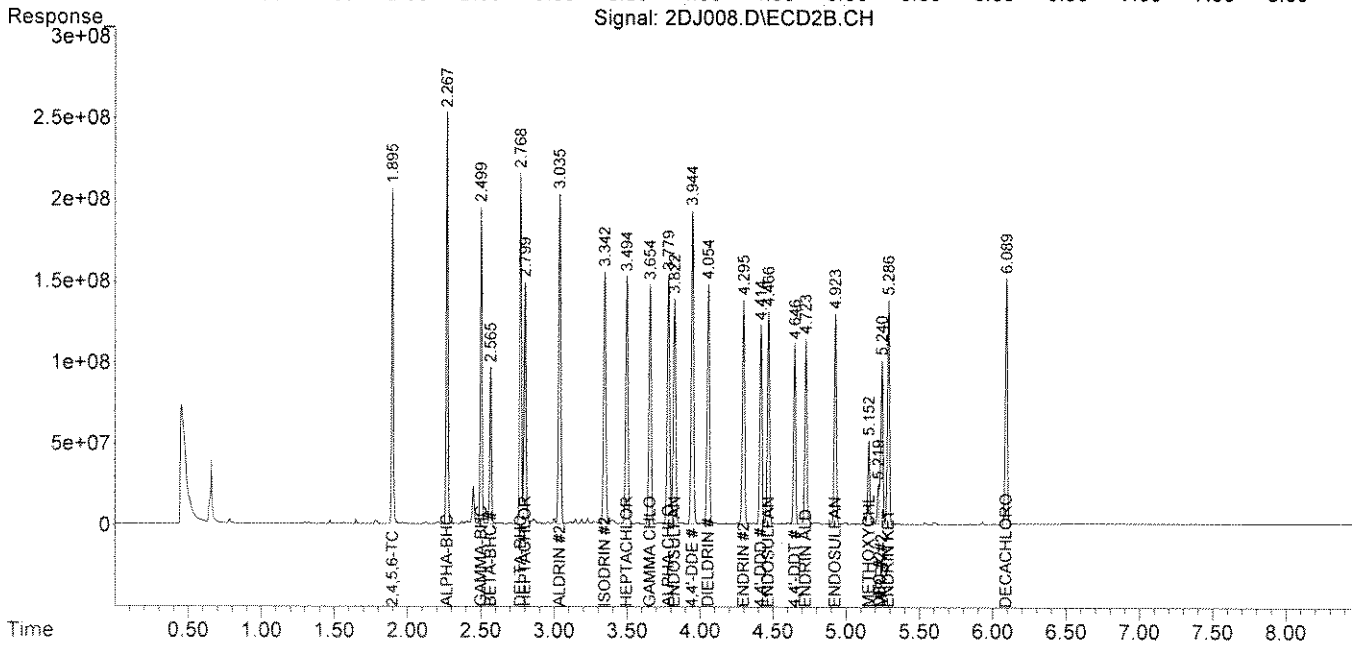
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 11:08
Operator : RC
Sample : AA23829-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 12:00:29 2013
Quant Method : Z:\2\METHODS\PEST2AZ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 11:59:02 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 14:29
Operator : RC
Sample : AA23829-SCV1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 14:43:02 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 12:11:32 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Internal Standards						
1) I	DBC	5.317	5.221	516.5E6	261.3E6	0.1000	0.1000
	Target Compounds						
2)	2,4,5,6-TCMX	2.012	1.897	1151.6E6	933.5E6	0.1700	0.1859
3)	ALPHA-BHC	2.372	2.269	1623.6E6	1213.6E6	0.1867	0.2126
4)	GAMMA-BHC...	2.588	2.502	1248.0E6	940.9E6	0.1896	0.1993
5)	BETA-BHC	2.653	2.567	552.6E6	447.2E6	0.1786	0.2013
6)	DELTA-BHC	2.781	2.770	1458.3E6	1130.7E6	0.1860	0.2165
7)	HEPTACHLOR	2.936	2.801	1149.6E6	836.8E6	0.1760	0.1892
8)	ALDRIN	3.167	3.037	1649.9E6	1238.1E6	0.1830	0.2066
9)	ISODRIN	3.434	3.344	1454.0E6	1160.8E6	0.2223	0.2402
10)	HEPTACHLO...	3.663	3.496	1202.6E6	1005.7E6	0.1830	0.2092
11)	GAMMA CHL...	3.771	3.655	1272.7E6	994.4E6	0.1933	0.2135
12)	ALPHA CHL...	3.885	3.781	1297.0E6	1064.6E6	0.1983	0.2130
13)	4,4'-DDE	3.962	3.946	1589.4E6	1196.8E6	0.1733	0.1871
14)	ENDOSULFAN I	3.995	3.824	1225.5E6	945.9E6	0.1938	0.2101
15)	DIELDRIN	4.192	4.055	1277.8E6	1013.6E6	0.1940	0.2115
16)	ENDRIN	4.373	4.297	1071.8E6	821.7E6	0.1684	0.1893
17)	4,4'-DDD	4.443	4.415	1032.8E6	720.8E6	0.1860	0.1893
18)	ENDOSULFAN 2	4.546	4.468	1004.9E6	830.3E6	0.1852	0.2016
19)	4,4'-DDT	4.654	4.648	840.4E6	641.0E6	0.1880	0.2034
20)	ENDRIN AL...	4.857	4.724	850.0E6	721.7E6	0.1982	0.2165
21)	METHOXYCHLOR	5.016	5.154	401.3E6	300.0E6	0.1836	0.1871
22)	MIREX	5.090	5.242	732.4E6	598.2E6	0.1736	0.1875
23)	ENDOSULFA...	5.165	4.925	841.2E6	785.9E6	0.1693	0.1999
24)	ENDRIN KE...	5.356	5.287	1030.3E6	840.5E6	0.1777	0.1930
25)	DECACHLOR...	6.029	6.093	906.2E6	930.4E6	0.1817	0.1977

SemiQuant Compounds - Not Calibrated on this Instrument

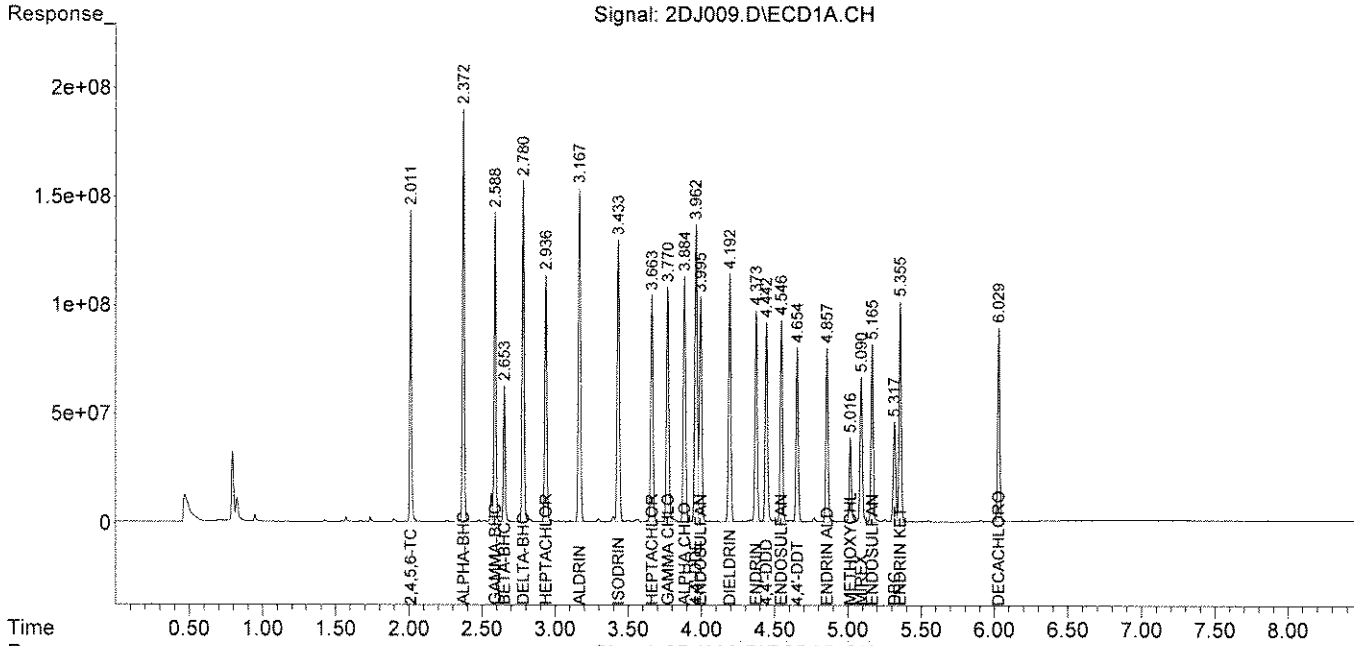
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

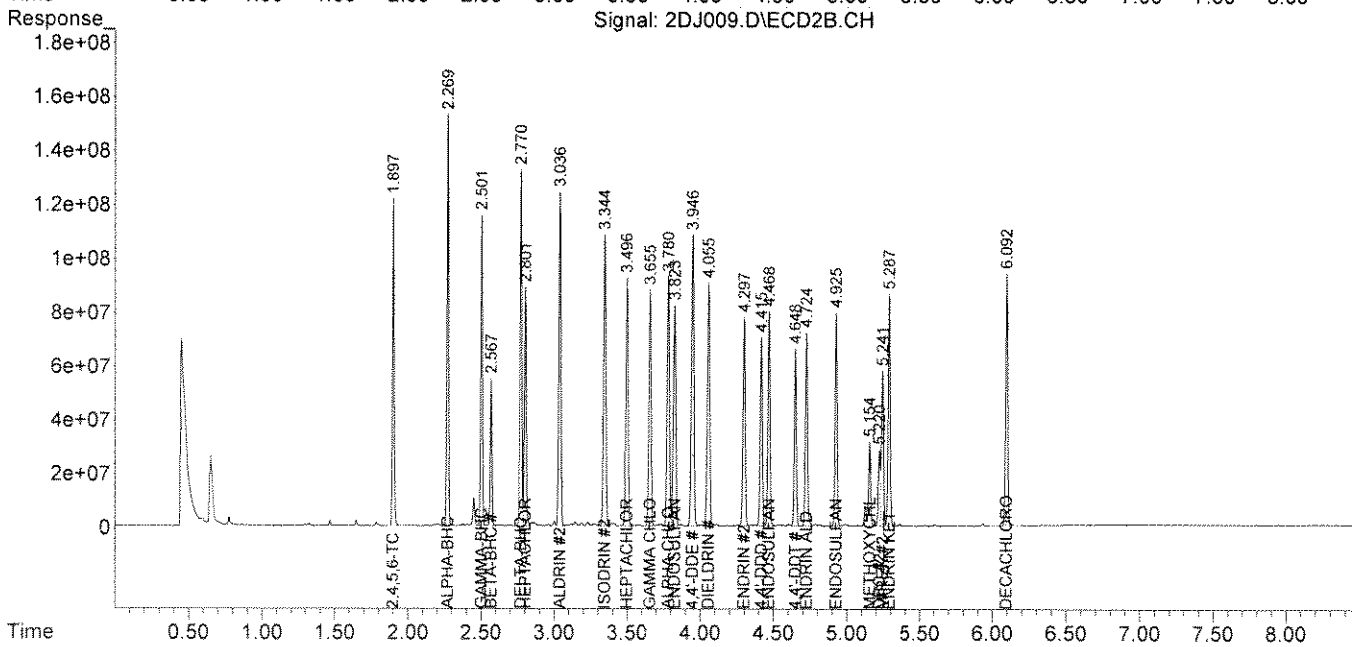
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2DJ13\
Data File : 2DJ009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 Apr 2013 14:29
Operator : RC
Sample : AA23829-SCV1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 14:43:02 2013
Quant Method : Y:\2\METHODS\PEST2DJ13.M
Quant Title : Pesticides SOP SVGC-04::OSVGCECD2
QLast Update : Mon Apr 15 12:11:32 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Response Factor Report HP G1530A

Method Path : Y:\2\METHODS\
Method File : PEST2DJ13.M
Title : Pesticides SOP SVGC-04::OSVGCECD2
Last Update : Tue Apr 16 08:33:42 2013
Response Via : Initial Calibration

Calibration Files
cal1 =2DJ003.D cal2 =2DJ004.D cal3 =2DJ005.D
cal4 =2DJ006.D cal5 =2DJ007.D cal6 =2DJ008.D

		Compound	cal1	cal2	cal3	cal4	cal5	cal6	Avg	%RSD
1)	I	DBC	----------ISTD----------							
2)		2,4,5,6-TCMX	1.355	1.167	1.413	1.389	1.279	1.264	1.311	7.04
3)		ALPHA-BHC	1.303	1.287	1.606	1.777	1.618	1.704	1.549	13.34
4)		GAMMA-BHC (LI...	1.176	1.116	1.282	1.438	1.294	1.342	1.275	9.05
5)		BETA-BHC	0.616	0.649	0.569	0.601	0.554	0.605	0.599	5.65
6)		DELTA-BHC	1.180	1.105	1.386	1.544	1.463	1.545	1.370	13.70
7)		HEPTACHLOR	1.298	1.171	1.277	1.395	1.238	1.208	1.264	6.24
8)		ALDRIN	1.471	1.362	1.754	1.830	1.713	1.749	1.647	11.26
9)		ISODRIN	1.204	1.106	1.308	1.366	1.287	1.326	1.266	7.53
10)		HEPTACHLOR EP...	1.236	1.113	1.277	1.368	1.295	1.346	1.272	7.19
11)		GAMMA CHLORDANE	1.346	1.120	1.231	1.342	1.258	1.353	1.275	7.17
12)		ALPHA CHLORDANE	1.217	1.092	1.258	1.357	1.293	1.382	1.266	8.30
13)		4,4'-DDE	1.362	1.307	1.845	1.850	1.790	1.764	1.653	15.09
14)		ENDOSULFAN I	1.179	1.063	1.228	1.337	1.240	1.298	1.224	7.86
15)		DIELDRIN	1.202	1.087	1.302	1.400	1.314	1.346	1.275	8.83
16)		ENDRIN	1.060	0.965	1.157	1.281	1.228	1.236	1.155	10.44
17)		4,4'-DDD	0.904	0.831	1.033	1.080	1.074	1.079	1.000	10.67
18)		ENDOSULFAN 2	1.018	0.923	1.081	1.137	1.072	1.074	1.051	6.96
19)		4,4'-DDT	0.905	0.729	0.806	0.899	0.933	0.921	0.865	9.32
20)		ENDRIN ALDEHYDE	0.850	0.743	0.815	0.853	0.851	0.869	0.830	5.56
21)		METHOXYCHLOR	0.389	0.393	0.435	0.446	0.450	0.426	0.423	6.22
22)		MIREX	1.188	0.949	0.894	0.878	0.817	0.800	0.921	15.34
23)		ENDOSULFAN SU...	0.965	0.895	0.982	1.006	0.978	0.948	0.962	3.97
24)		ENDRIN KETONE	1.168	0.991	1.180	1.194	1.144	1.057	1.122	7.17
25)		DECACHLOROBIP...	1.049	0.931	0.976	0.944	0.948	0.945	0.966	4.52

Signal #2 Calibration Files
cal1 =2DJ003.D cal2 =2DJ004.D cal3 =2DJ005.D
cal4 =2DJ006.D cal5 =2DJ007.D cal6 =2DJ008.D

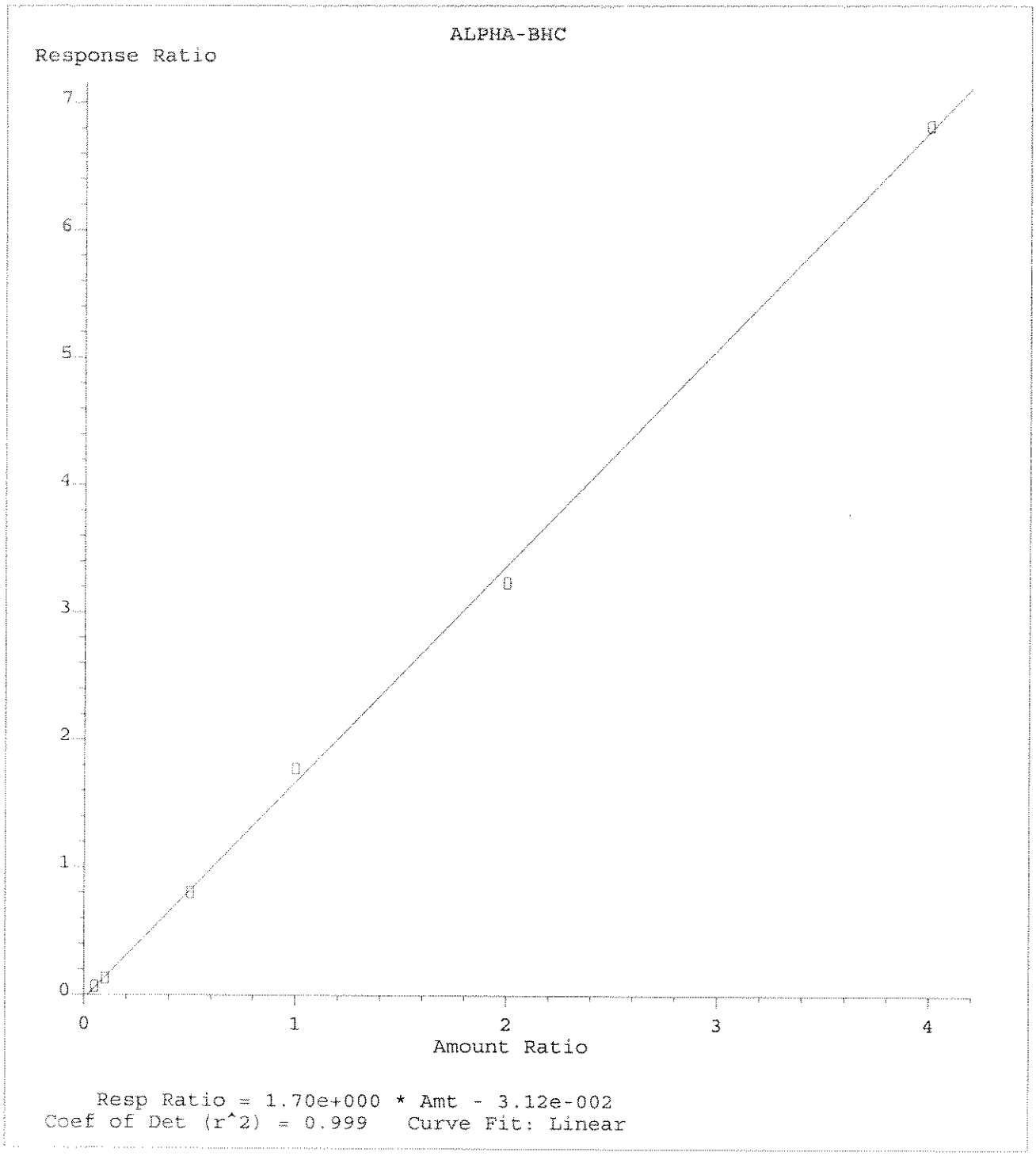
		Compound	cal1	cal2	cal3	cal4	cal5	cal6	Avg	%RSD
1)	I	DBC	----------ISTD----------							
2)		2,4,5,6-TCMX	1.877	1.576	2.049	2.032	1.924	2.070	1.921	9.65
3)		ALPHA-BHC	1.867	1.704	2.184	2.440	2.291	2.626	2.185	15.89
4)		GAMMA-BHC (LI...	1.679	1.489	1.760	1.996	1.840	2.076	1.807	11.84
5)		BETA-BHC	0.859	0.726	0.792	0.874	0.840	1.010	0.850	11.17
6)		DELTA-BHC	1.677	1.534	1.977	2.216	2.139	2.451	1.999	17.20
7)		HEPTACHLOR	1.709	1.439	1.640	1.822	1.678	1.866	1.692	8.93
8)		ALDRIN	1.977	1.772	2.367	2.511	2.420	2.713	2.293	15.32
9)		ISODRIN	1.655	1.454	1.866	1.983	1.943	2.198	1.850	14.15
10)		HEPTACHLOR EP...	1.751	1.481	1.795	1.952	1.890	2.168	1.839	12.43
11)		GAMMA CHLORDANE	1.646	1.412	1.709	1.907	1.853	2.170	1.783	14.44
12)		ALPHA CHLORDANE	1.755	1.516	1.857	2.035	1.995	2.321	1.913	14.29
13)		4,4'-DDE	2.047	1.840	2.687	2.678	2.630	2.803	2.448	16.33
14)		ENDOSULFAN I	1.588	1.366	1.667	1.838	1.797	2.080	1.723	14.10
15)		DIELDRIN	1.644	1.439	1.815	1.985	1.936	2.186	1.834	14.43
16)		ENDRIN	1.509	1.341	1.639	1.784	1.751	1.946	1.662	12.94
17)		4,4'-DDD	1.515	1.204	1.395	1.463	1.502	1.666	1.457	10.49
18)		ENDOSULFAN 2	1.494	1.292	1.555	1.566	1.638	1.811	1.576	11.17
19)		4,4'-DDT	1.011	0.953	1.178	1.316	1.341	1.436	1.206	16.01
20)		ENDRIN ALDEHYDE	1.231	1.048	1.239	1.315	1.331	1.492	1.276	11.45
21)		METHOXYCHLOR	0.621	0.572	0.622	0.622	0.617	0.628	0.614	3.37
22)		MIREX	1.300	0.981	1.163	1.248	1.257	1.378	1.221	11.22

Method Path : Y:\2\METHODS\
Method File : PEST2DJ13.M
Title : Pesticides SOP SVGC-04::OSVGCECD2
Last Update : Tue Apr 16 08:33:42 2013
Response Via : Initial Calibration

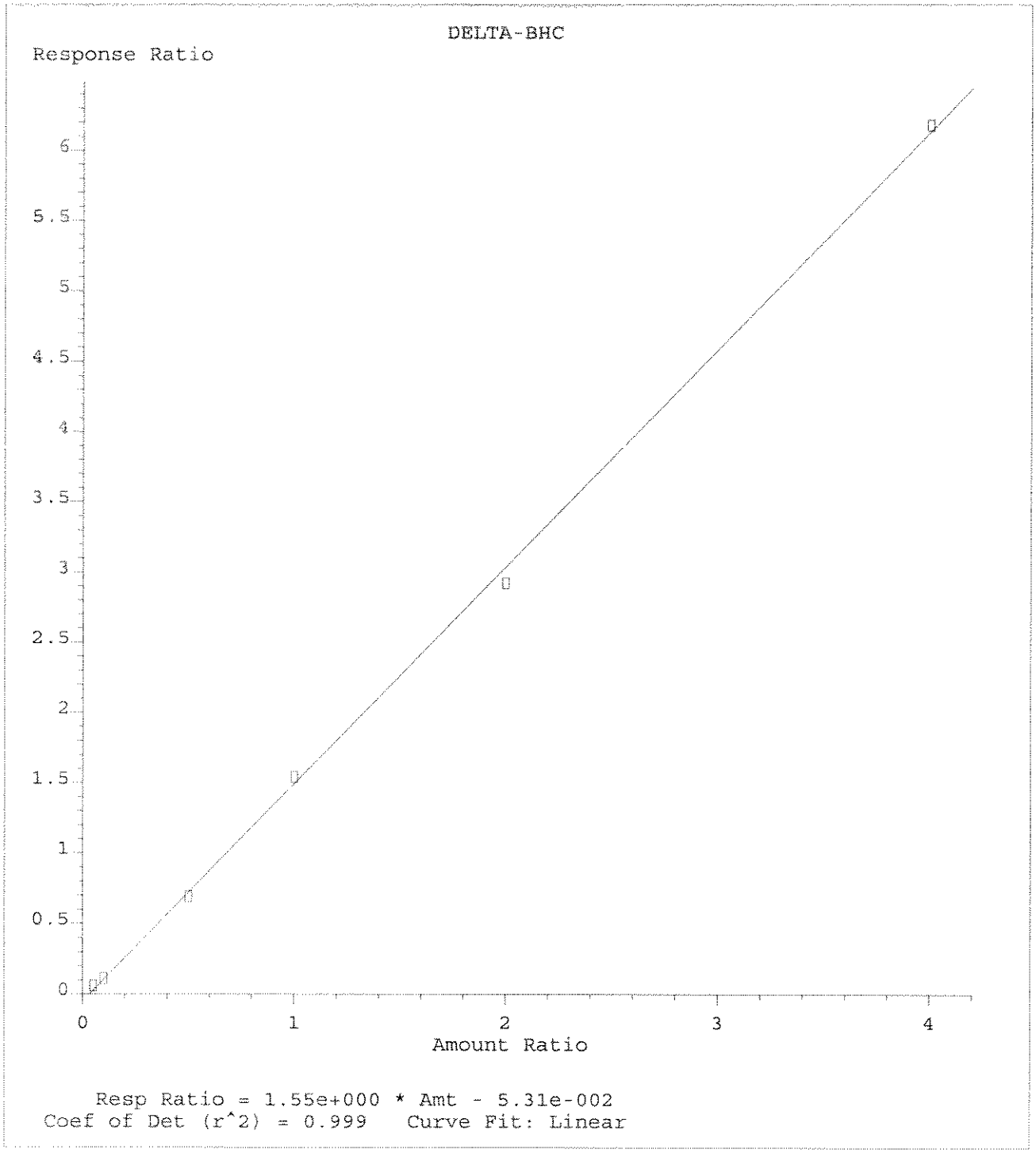
Calibration Files
cal1 =2DJ003.D cal2 =2DJ004.D cal3 =2DJ005.D
cal4 =2DJ006.D cal5 =2DJ007.D cal6 =2DJ008.D

	Compound	cal1	cal2	cal3	cal4	cal5	cal6	Avg	%RSD
23)	ENDOSULFAN SU...	1.452	1.258	1.491	1.566	1.572	1.688	1.504	9.68
24)	ENDRIN KETONE	1.723	1.453	1.679	1.710	1.700	1.736	1.667	6.40
25)	DECACHLOROBIP...	1.936	1.530	1.825	1.774	1.799	1.944	1.801	8.36

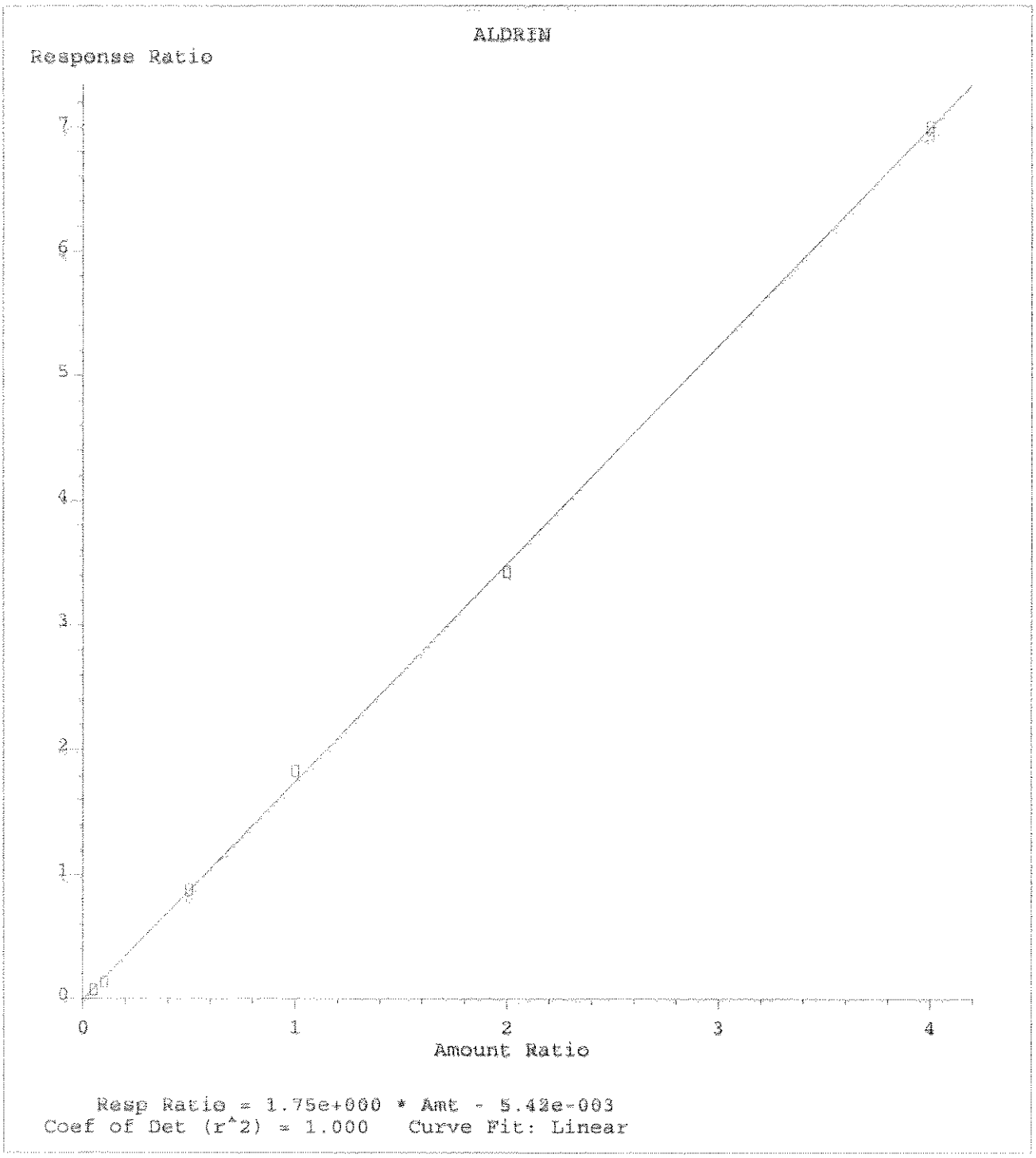
(#) = Out of Range



Method Name: Z:\2\METHODS\PEST2DJ13.M
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013



Method Name: Z:\2\METHODS\PEST2DJ13.M
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013



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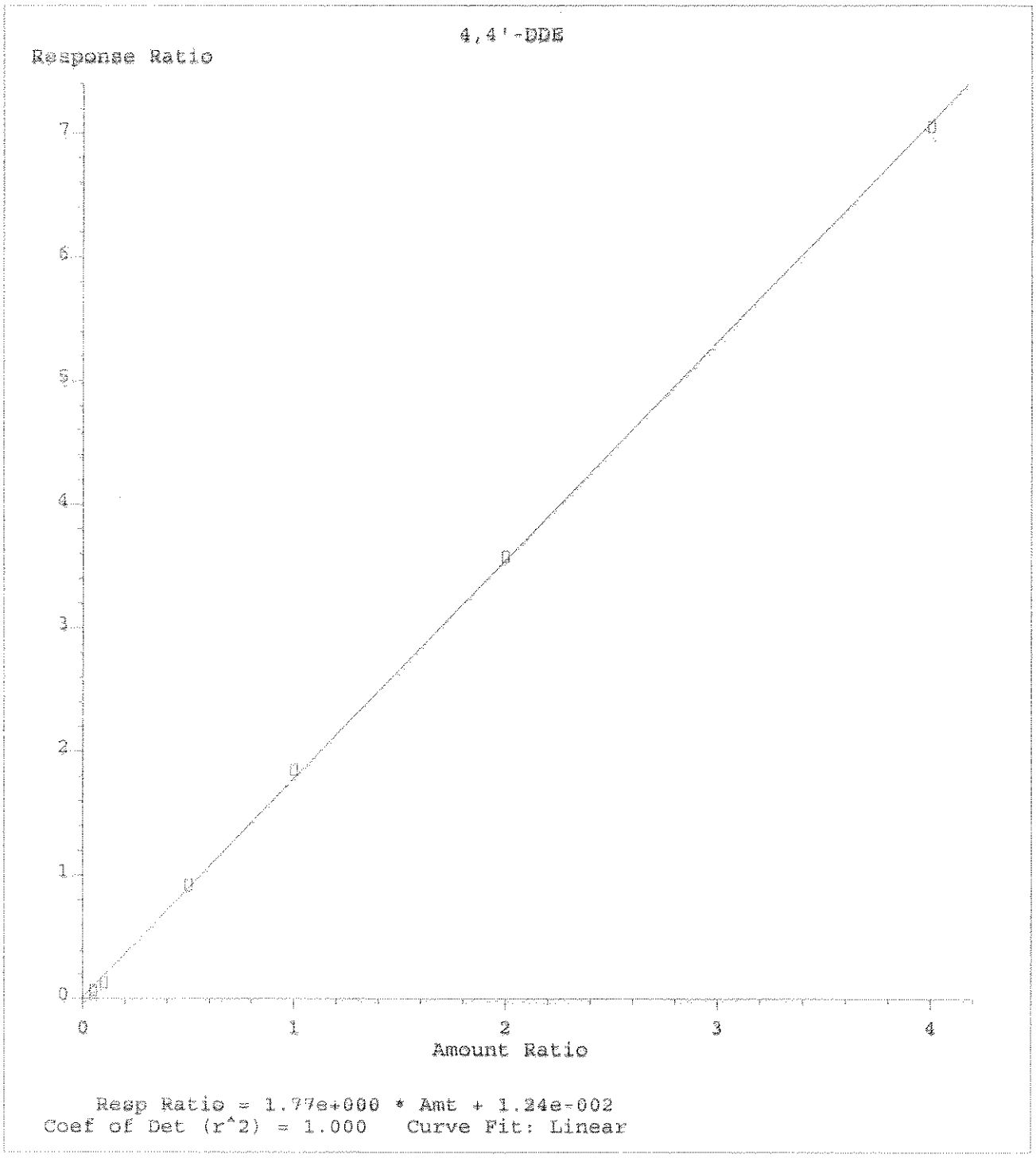
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013



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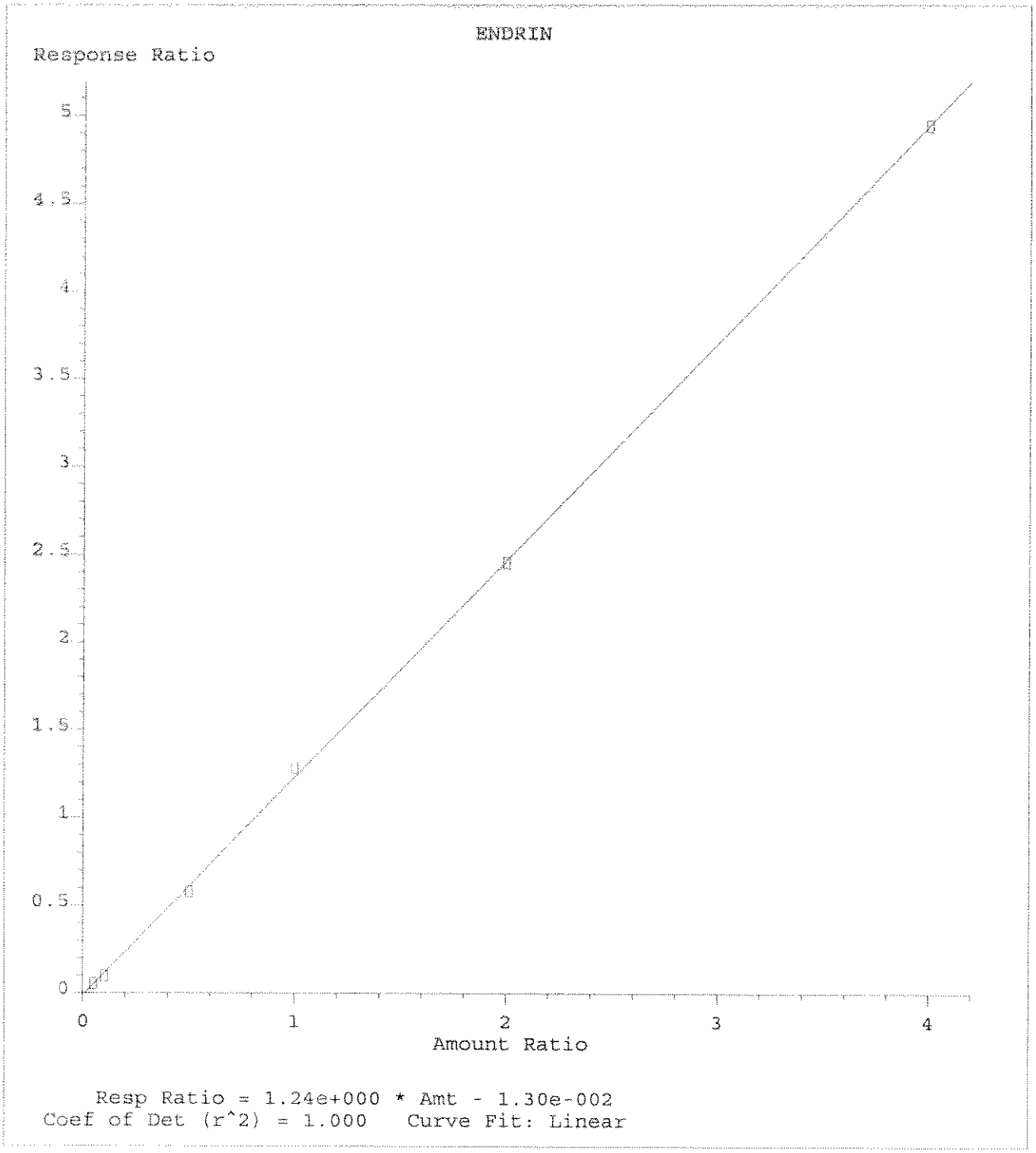
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013



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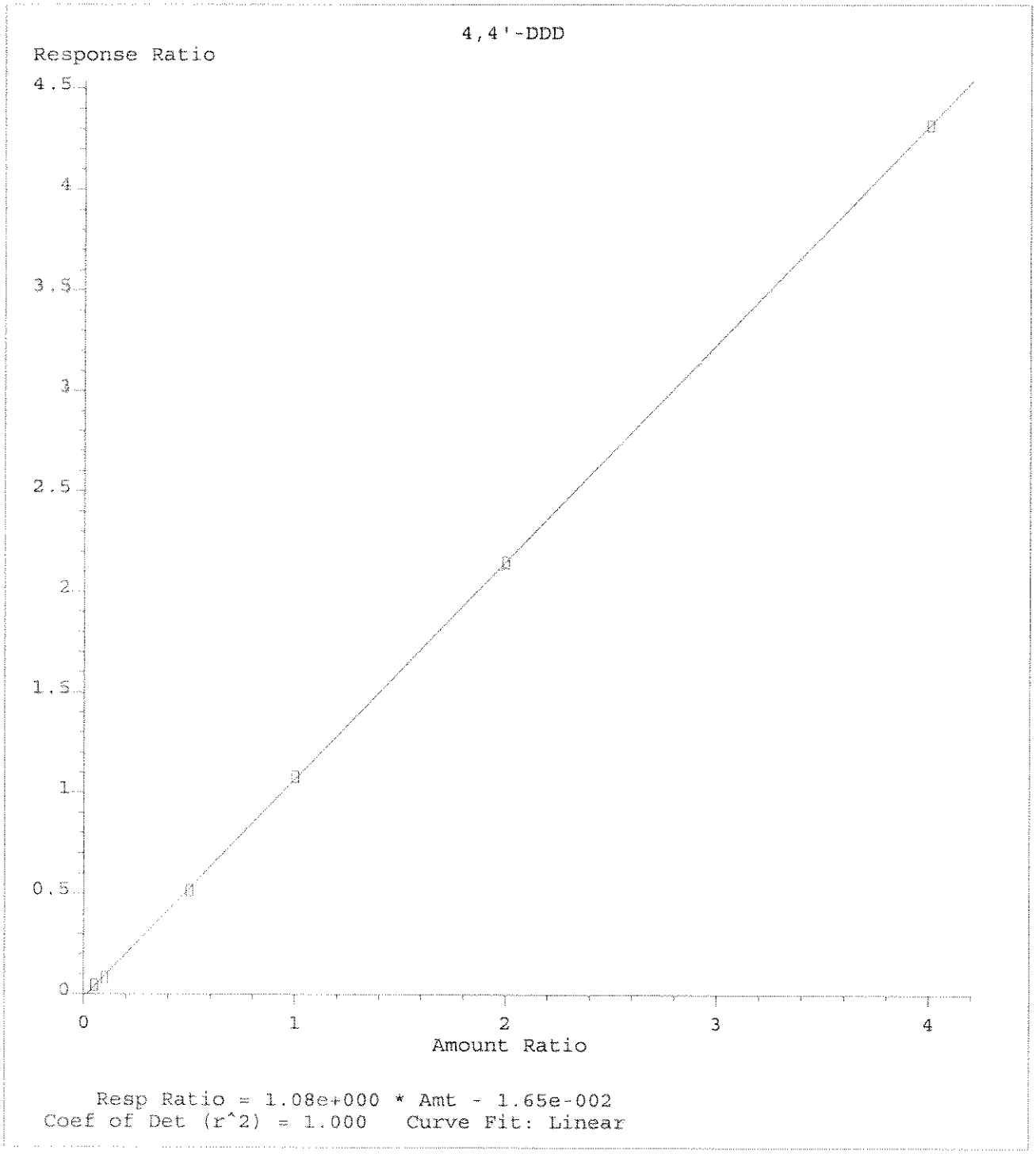
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013



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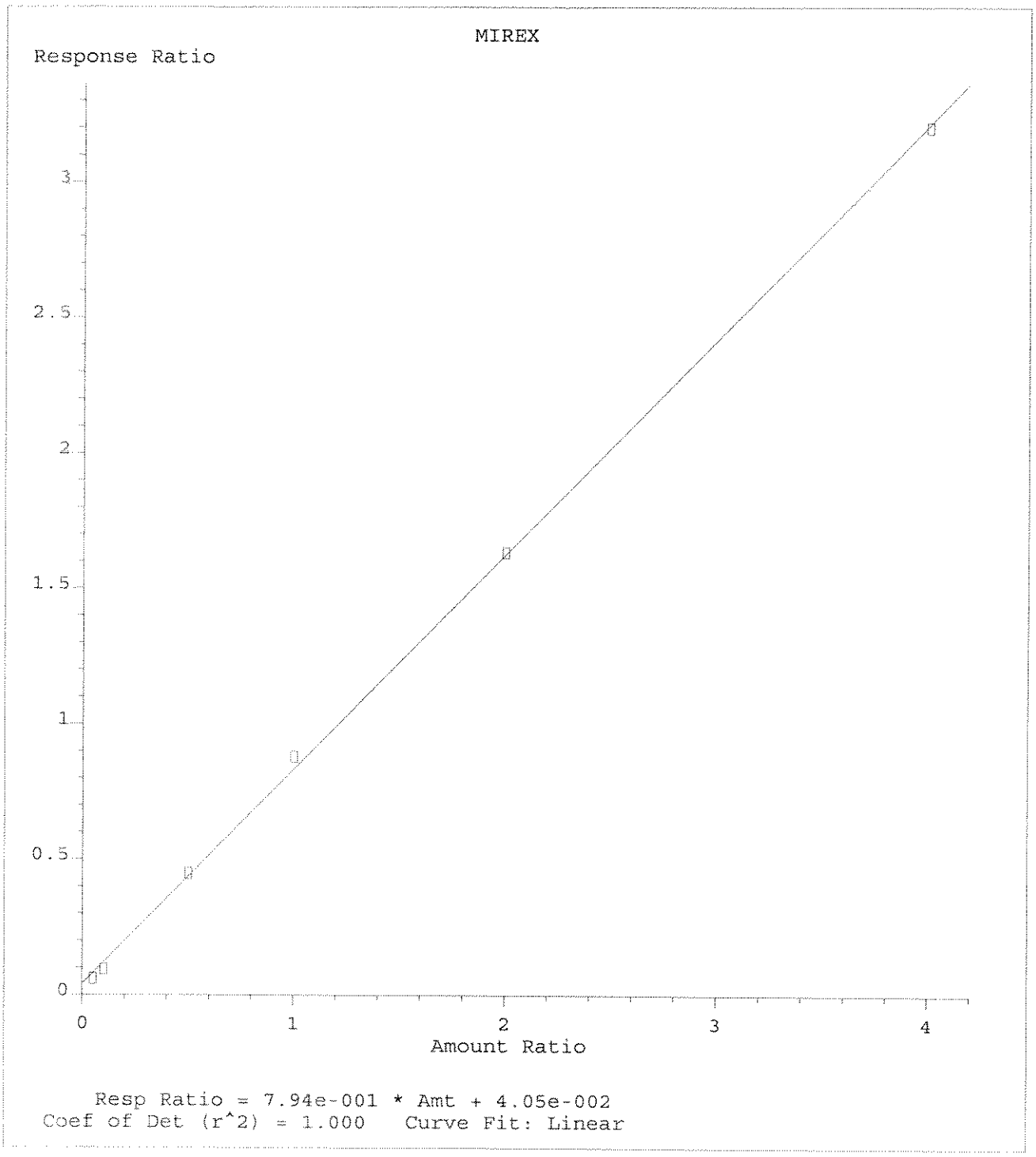
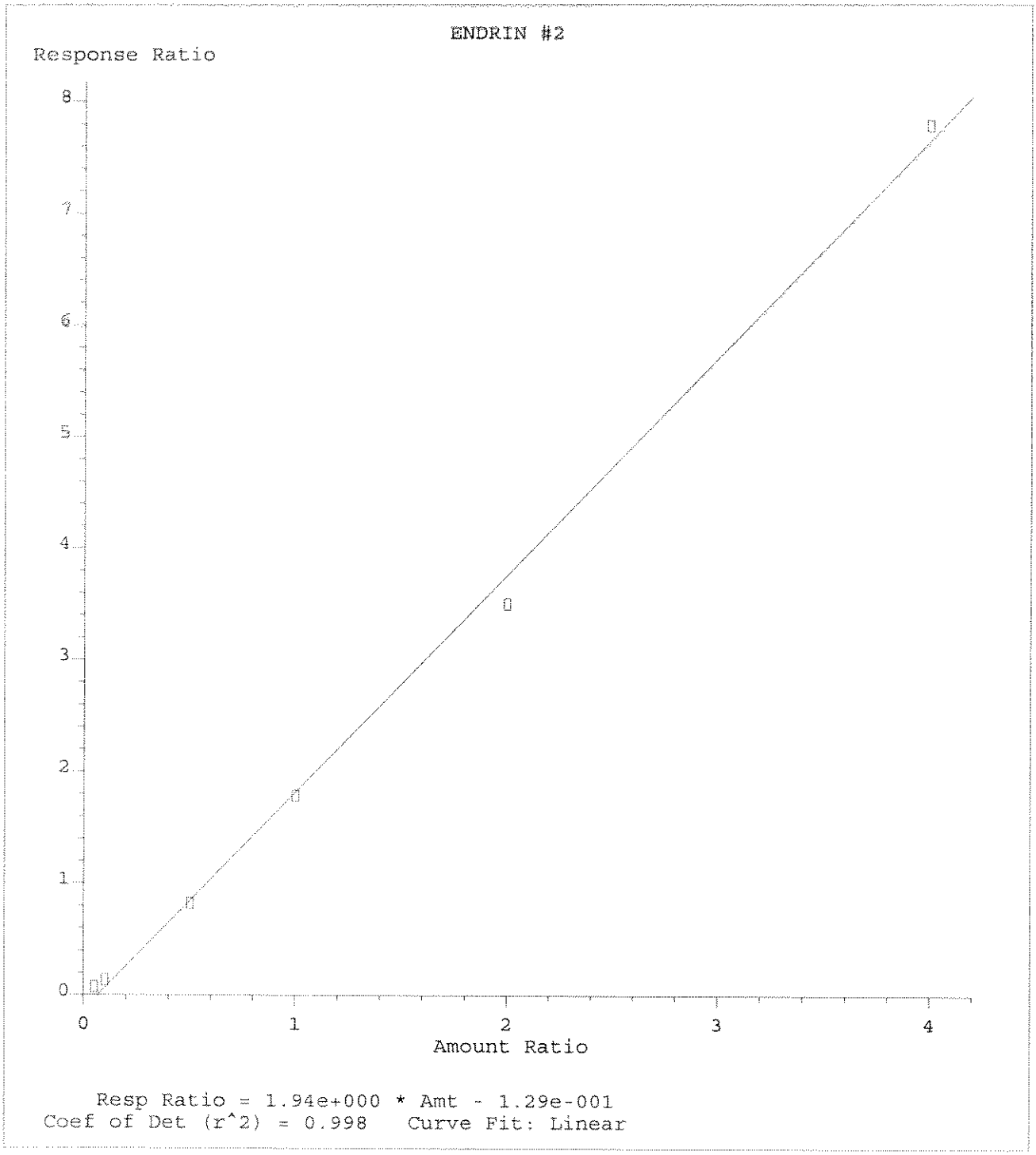
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013



Method Name: Z:\2\METHODS\PEST2DJ13.M
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013



Method Name: Z:\2\METHODS\PEST2DJ13.M
Calibration Table Last Updated: Wed Jul 10 09:45:27 2013

ENCO Orlando

SDG: A303499-CTO0020

CLASS: 15_PCB

METHOD: EPA 8082A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Client Sample Id:	Lab Sample Id:
TR-2ND-SB07-0.5-01-0613	A303499-06
TR-2ND-SB07-04-06-0613	A303499-07
TR-2ND-SB06-0.5-01-0613	A303499-09
TR-2ND-SB06-05-07-0613	A303499-10
TR-2ND-SB06D-0.5-01-0613	A303499-11
TR-2ND-SB06D-05-07-0613	A303499-12
TR-2ND-SB04-0.5-01-0613	A303499-14
TR-2ND-SB04-04-06-0613	A303499-15
TR-2ND-SB05-0.5-01-0613	A303499-17
TR-2ND-SB05-0.5-01-0613	A303499-17RE1
TR-2ND-SB05-03-05-0613	A303499-18
TR-2ND-SB03-0.5-01-0613	A303499-19
TR-2ND-SB03-04-06-0613	A303499-20
TR-2ND-SB02-0.5-1-0613	A303499-21
TR-2ND-SB02-06-08-0613	A303499-22
TR-2ND-SB02-06-08-0613	A303499-22RE1

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB07-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	2FV032.D
Sampled:	06/19/13 10:20	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 14:42
Solids:	84.46	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<24	U	17	24	47
53469-21-9	PCB-1242	1	<24	U	12	24	47
12674-11-2/53469-21-9	PCB-1016/1242	1	<24	U	17	24	47
11104-28-2	PCB-1221	1	<24	U	17	24	47
11141-16-5	PCB-1232	1	<24	U	17	24	47
12672-29-6	PCB-1248	1	<24	U	7.5	24	47
11097-69-1	PCB-1254 [2C]	1	100	PQ	18	24	47
11096-82-5	PCB-1260	1	140		13	24	47
37324-23-5	PCB-1262	1	<24	U	17	24	47
11100-14-4	PCB-1268	1	<24	U	12	24	47

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.5	23	58	20 - 137	
Decachlorobiphenyl	39.5	28	72	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB07-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	2FV033.D
Sampled:	06/19/13 10:40	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 14:54
Solids:	80.68	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<25	U	17	25	50
53469-21-9	PCB-1242	1	<25	U	12	25	50
12674-11-2/53469-21-9	PCB-1016/1242	1	<25	U	17	25	50
11104-28-2	PCB-1221	1	<25	U	17	25	50
11141-16-5	PCB-1232	1	<25	U	17	25	50
12672-29-6	PCB-1248	1	<25	U	7.8	25	50
11097-69-1	PCB-1254 [2C]	1	<25	U	19	25	50
11096-82-5	PCB-1260	1	<25	U	14	25	50
37324-23-5	PCB-1262	1	<25	U	17	25	50
11100-14-4	PCB-1268	1	<25	U	12	25	50

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.3	23	55	20 - 137	
Decachlorobiphenyl	41.3	32	78	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB06-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	2FV034.D
Sampled:	06/19/13 11:20	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 15:06
Solids:	84.06	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<24	U	17	24	48
53469-21-9	PCB-1242	1	<24	U	12	24	48
12674-11-2/53469-21-9	PCB-1016/1242	1	<24	U	17	24	48
11104-28-2	PCB-1221	1	<24	U	17	24	48
11141-16-5	PCB-1232	1	<24	U	17	24	48
12672-29-6	PCB-1248	1	<24	U	7.5	24	48
11097-69-1	PCB-1254 [2C]	1	<24	U	18	24	48
11096-82-5	PCB-1260	1	19	J	13	24	48
37324-23-5	PCB-1262	1	<24	U	17	24	48
11100-14-4	PCB-1268	1	<24	U	12	24	48

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.1	29	73	20 - 137	
Decachlorobiphenyl	39.1	30	77	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB06-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	2FV035.D
Sampled:	06/19/13 11:30	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 15:18
Solids:	79.06	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<25	U	18	25	51
53469-21-9	PCB-1242	1	<25	U	13	25	51
12674-11-2/53469-21-9	PCB-1016/1242	1	<25	U	18	25	51
11104-28-2	PCB-1221	1	<25	U	18	25	51
11141-16-5	PCB-1232	1	<25	U	18	25	51
12672-29-6	PCB-1248	1	<25	U	8.0	25	51
11097-69-1	PCB-1254 [2C]	1	<25	U	19	25	51
11096-82-5	PCB-1260	1	<25	U	14	25	51
37324-23-5	PCB-1262	1	<25	U	18	25	51
11100-14-4	PCB-1268	1	<25	U	13	25	51

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.6	21	50	20 - 137	
Decachlorobiphenyl	41.6	31	75	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB06D-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	2FV036.D
Sampled:	06/19/13 11:25	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 15:30
Solids:	83.39	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch:	3F24029	Sequence:	AA24725	Calibration:	1306059	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<24	U	17	24	48
53469-21-9	PCB-1242	1	<24	U	12	24	48
12674-11-2/53469-21-9	PCB-1016/1242	1	<24	U	17	24	48
11104-28-2	PCB-1221	1	<24	U	17	24	48
11141-16-5	PCB-1232	1	<24	U	17	24	48
12672-29-6	PCB-1248	1	<24	U	7.6	24	48
11097-69-1	PCB-1254 [2C]	1	<24	U	18	24	48
11096-82-5	PCB-1260 [2C]	1	<24	UQ	13	24	48
37324-23-5	PCB-1262	1	<24	U	17	24	48
11100-14-4	PCB-1268	1	<24	U	12	24	48

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	39.4	31	78	20 - 137	
Decachlorobiphenyl	39.4	27	68	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB06D-05-07-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	2FV039.D
Sampled:	06/19/13 11:35	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:06
Solids:	78.23	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<26	U	18	26	51
53469-21-9	PCB-1242	1	<26	U	13	26	51
12674-11-2/53469-21-9	PCB-1016/1242	1	<26	U	18	26	51
11104-28-2	PCB-1221	1	<26	U	18	26	51
11141-16-5	PCB-1232	1	<26	U	18	26	51
12672-29-6	PCB-1248	1	<26	U	8.1	26	51
11097-69-1	PCB-1254 [2C]	1	<26	U	19	26	51
11096-82-5	PCB-1260	1	<26	U	14	26	51
37324-23-5	PCB-1262	1	<26	U	18	26	51
11100-14-4	PCB-1268	1	<26	U	13	26	51

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	42.5	26	62	20 - 137	
Decachlorobiphenyl	42.5	34	80	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB04-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	2FV040.D
Sampled:	06/19/13 12:50	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:19
Solids:	85.68	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<23	U	16	23	47
53469-21-9	PCB-1242	1	<23	U	12	23	47
12674-11-2/53469-21-9	PCB-1016/1242	1	<23	U	16	23	47
11104-28-2	PCB-1221	1	<23	U	16	23	47
11141-16-5	PCB-1232	1	<23	U	16	23	47
12672-29-6	PCB-1248	1	<23	U	7.4	23	47
11097-69-1	PCB-1254 [2C]	1	<23	U	18	23	47
11096-82-5	PCB-1260	1	400		13	23	47
37324-23-5	PCB-1262	1	<23	U	16	23	47
11100-14-4	PCB-1268	1	<23	U	12	23	47

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	38.8	25	64	20 - 137	
Decachlorobiphenyl	38.8	32	82	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB04-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	2FV041.D
Sampled:	06/19/13 13:00	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:31
Solids:	79.34	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<25	U	18	25	50
53469-21-9	PCB-1242	1	<25	U	13	25	50
12674-11-2/53469-21-9	PCB-1016/1242	1	<25	U	18	25	50
11104-28-2	PCB-1221	1	<25	U	18	25	50
11141-16-5	PCB-1232	1	<25	U	18	25	50
12672-29-6	PCB-1248	1	<25	U	7.9	25	50
11097-69-1	PCB-1254 [2C]	1	<25	U	19	25	50
11096-82-5	PCB-1260	1	<25	U	14	25	50
37324-23-5	PCB-1262	1	<25	U	18	25	50
11100-14-4	PCB-1268	1	<25	U	13	25	50

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.5	21	50	20 - 137	
Decachlorobiphenyl	41.5	30	73	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	2FV042.D
Sampled:	06/19/13 13:30	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:43
Solids:	75.47	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch:	3F24029	Sequence:	AA24725	Calibration:	1306059	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<26	U	19	26	53
53469-21-9	PCB-1242	1	<26	U	13	26	53
12674-11-2/53469-21-9	PCB-1016/1242	1	<26	U	19	26	53
11104-28-2	PCB-1221	1	<26	U	19	26	53
11141-16-5	PCB-1232	1	<26	U	19	26	53
12672-29-6	PCB-1248	1	<26	U	8.3	26	53
11097-69-1	PCB-1254 [2C]	1	27	J	20	26	53
11096-82-5	PCB-1260	1	34	J	15	26	53
37324-23-5	PCB-1262	1	<26	U	19	26	53
11100-14-4	PCB-1268	1	<26	U	13	26	53

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	43.9	18	40	20 - 137	
Decachlorobiphenyl	43.9	22	49	60 - 125	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB05-0.5-01-0613

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix:	Soil	Laboratory ID:	A303499-17RE1	File ID:	2G1007.D
Sampled:	06/19/13 13:30	Prepared:	06/28/13 12:25	Analyzed:	07/01/13 09:44
Solids:	75.47	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch:	3F28012	Sequence:	AA24775	Calibration:	1306059	Instrument:	OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<26	U	19	26	53
53469-21-9	PCB-1242	1	<26	U	13	26	53
12674-11-2/53469-21-9	PCB-1016/1242	1	<26	U	19	26	53
11104-28-2	PCB-1221	1	<26	U	19	26	53
11141-16-5	PCB-1232	1	<26	U	19	26	53
12672-29-6	PCB-1248	1	<26	U	8.3	26	53
11097-69-1	PCB-1254	1	85		20	26	53
11096-82-5	PCB-1260	1	130		15	26	53
37324-23-5	PCB-1262	1	<26	U	19	26	53
11100-14-4	PCB-1268	1	<26	U	13	26	53

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	44.2	34	77	20 - 137	
Decachlorobiphenyl	44.2	39	89	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB05-03-05-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	2FV043.D
Sampled:	06/19/13 13:40	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:55
Solids:	75.96	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<26	U	18	26	53
53469-21-9	PCB-1242	1	<26	U	13	26	53
12674-11-2/53469-21-9	PCB-1016/1242	1	<26	U	18	26	53
11104-28-2	PCB-1221	1	<26	U	18	26	53
11141-16-5	PCB-1232	1	<26	U	18	26	53
12672-29-6	PCB-1248	1	<26	U	8.3	26	53
11097-69-1	PCB-1254 [2C]	1	<26	U	20	26	53
11096-82-5	PCB-1260	1	<26	U	14	26	53
37324-23-5	PCB-1262	1	<26	U	18	26	53
11100-14-4	PCB-1268	1	<26	U	13	26	53

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	43.6	13	30	20 - 137	
Decachlorobiphenyl	43.6	27	61	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB03-0.5-01-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	2FV044.D
Sampled:	06/19/13 14:00	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:07
Solids:	76.63	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<26	U	18	26	52
53469-21-9	PCB-1242	1	<26	U	13	26	52
12674-11-2/53469-21-9	PCB-1016/1242	1	<26	U	18	26	52
11104-28-2	PCB-1221	1	<26	U	18	26	52
11141-16-5	PCB-1232	1	<26	U	18	26	52
12672-29-6	PCB-1248	1	<26	U	8.2	26	52
11097-69-1	PCB-1254 [2C]	1	<26	U	20	26	52
11096-82-5	PCB-1260	1	<26	U	14	26	52
37324-23-5	PCB-1262	1	<26	U	18	26	52
11100-14-4	PCB-1268	1	<26	U	13	26	52

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	42.8	17	39	20 - 137	
Decachlorobiphenyl	42.8	27	64	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB03-04-06-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	2FV045.D
Sampled:	06/19/13 14:10	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:19
Solids:	80.94	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<25	U	17	25	49
53469-21-9	PCB-1242	1	<25	U	12	25	49
12674-11-2/53469-21-9	PCB-1016/1242	1	<25	U	17	25	49
11104-28-2	PCB-1221	1	<25	U	17	25	49
11141-16-5	PCB-1232	1	<25	U	17	25	49
12672-29-6	PCB-1248	1	<25	U	7.8	25	49
11097-69-1	PCB-1254 [2C]	1	<25	U	19	25	49
11096-82-5	PCB-1260	1	<25	U	14	25	49
37324-23-5	PCB-1262	1	<25	U	17	25	49
11100-14-4	PCB-1268	1	<25	U	12	25	49

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	41.0	16	40	20 - 137	
Decachlorobiphenyl	41.0	25	60	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB02-0.5-1-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	2FV046.D
Sampled:	06/19/13 14:15	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:31
Solids:	86.11	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<23	U	16	23	46
53469-21-9	PCB-1242	1	<23	U	12	23	46
12674-11-2/53469-21-9	PCB-1016/1242	1	<23	U	16	23	46
11104-28-2	PCB-1221	1	<23	U	16	23	46
11141-16-5	PCB-1232	1	<23	U	16	23	46
12672-29-6	PCB-1248	1	<23	U	7.3	23	46
11097-69-1	PCB-1254 [2C]	1	<23	U	17	23	46
11096-82-5	PCB-1260	1	<23	U	13	23	46
37324-23-5	PCB-1262	1	<23	U	16	23	46
11100-14-4	PCB-1268	1	<23	U	12	23	46

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	38.6	21	55	20 - 137	
Decachlorobiphenyl	38.6	27	69	60 - 125	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2FV047.D
Sampled:	06/19/13 14:30	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:43
Solids:	72.13	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL

Batch: 3F24029 Sequence: AA24725 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<28	U	19	28	55
53469-21-9	PCB-1242	1	<28	U	14	28	55
12674-11-2/53469-21-9	PCB-1016/1242	1	<28	U	19	28	55
11104-28-2	PCB-1221	1	<28	U	19	28	55
11141-16-5	PCB-1232	1	<28	U	19	28	55
12672-29-6	PCB-1248	1	<28	U	8.7	28	55
11097-69-1	PCB-1254 [2C]	1	150		21	28	55
11096-82-5	PCB-1260	1	67		15	28	55
37324-23-5	PCB-1262	1	<28	U	19	28	55
11100-14-4	PCB-1268	1	<28	U	14	28	55

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	45.9	13	28	20 - 137	
Decachlorobiphenyl	45.9	26	57	60 - 125	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

TR-2ND-SB02-06-08-0613

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22RE1	File ID:	2G1008.D
Sampled:	06/19/13 14:30	Prepared:	06/28/13 12:25	Analyzed:	07/01/13 09:57
Solids:	72.13	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

Batch: 3F28012 Sequence: AA24775 Calibration: 1306059 Instrument: OSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	DL	LOD	LOQ
12674-11-2	PCB-1016	1	<28	U	19	28	55
53469-21-9	PCB-1242	1	<28	U	14	28	55
12674-11-2/53469-21-9	PCB-1016/1242	1	<28	U	19	28	55
11104-28-2	PCB-1221	1	<28	U	19	28	55
11141-16-5	PCB-1232	1	<28	U	19	28	55
12672-29-6	PCB-1248	1	<28	U	8.7	28	55
11097-69-1	PCB-1254	1	760		21	28	55
11096-82-5	PCB-1260	1	230		15	28	55
37324-23-5	PCB-1262	1	<28	U	19	28	55
11100-14-4	PCB-1268	1	<28	U	14	28	55

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	46.2	33	71	20 - 137	
Decachlorobiphenyl	46.2	38	83	60 - 125	

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8082A

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TR-2ND-SB07-0.5-01-0613	06/19/13 10:20	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 14:42	3.00	365.00	
TR-2ND-SB07-04-06-0613	06/19/13 10:40	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 14:54	3.00	365.00	
TR-2ND-SB06-0.5-01-0613	06/19/13 11:20	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 15:06	3.00	365.00	
TR-2ND-SB06-05-07-0613	06/19/13 11:30	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 15:18	3.00	365.00	
TR-2ND-SB06D-0.5-01-0613	06/19/13 11:25	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 15:30	3.00	365.00	
TR-2ND-SB06D-05-07-0613	06/19/13 11:35	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 16:06	3.00	365.00	
TR-2ND-SB04-0.5-01-0613	06/19/13 12:50	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 16:19	3.00	365.00	
TR-2ND-SB04-04-06-0613	06/19/13 13:00	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 16:31	3.00	365.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 16:43	3.00	365.00	
TR-2ND-SB05-0.5-01-0613	06/19/13 13:30	06/20/13 09:20	06/28/13 12:25	9.00	365.00	07/01/13 09:44	2.00	365.00	
TR-2ND-SB05-03-05-0613	06/19/13 13:40	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 16:55	3.00	365.00	
TR-2ND-SB03-0.5-01-0613	06/19/13 14:00	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 17:07	3.00	365.00	
TR-2ND-SB03-04-06-0613	06/19/13 14:10	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 17:19	3.00	365.00	
TR-2ND-SB02-0.5-1-0613	06/19/13 14:15	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 17:31	3.00	365.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/24/13 13:45	5.00	365.00	06/27/13 17:43	3.00	365.00	
TR-2ND-SB02-06-08-0613	06/19/13 14:30	06/20/13 09:20	06/28/13 12:25	9.00	365.00	07/01/13 09:57	2.00	365.00	

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F24029 Batch Matrix: Soil

Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F24029-BLK1	2FV029.D	06/24/13 13:45	
LCS	3F24029-BS1	2FV030.D	06/24/13 13:45	
LCS Dup	3F24029-BSD1	2FV031.D	06/24/13 13:45	
TR-2ND-SB07-0.5-01-0613	A303499-06	2FV032.D	06/24/13 13:45	
TR-2ND-SB07-04-06-0613	A303499-07	2FV033.D	06/24/13 13:45	
TR-2ND-SB06-0.5-01-0613	A303499-09	2FV034.D	06/24/13 13:45	
TR-2ND-SB06-05-07-0613	A303499-10	2FV035.D	06/24/13 13:45	
TR-2ND-SB06D-0.5-01-0613	A303499-11	2FV036.D	06/24/13 13:45	
TR-2ND-SB06D-05-07-0613	A303499-12	2FV039.D	06/24/13 13:45	
TR-2ND-SB04-0.5-01-0613	A303499-14	2FV040.D	06/24/13 13:45	
TR-2ND-SB04-04-06-0613	A303499-15	2FV041.D	06/24/13 13:45	
TR-2ND-SB05-0.5-01-0613	A303499-17	2FV042.D	06/24/13 13:45	
TR-2ND-SB05-03-05-0613	A303499-18	2FV043.D	06/24/13 13:45	
TR-2ND-SB03-0.5-01-0613	A303499-19	2FV044.D	06/24/13 13:45	
TR-2ND-SB03-04-06-0613	A303499-20	2FV045.D	06/24/13 13:45	
TR-2ND-SB02-0.5-1-0613	A303499-21	2FV046.D	06/24/13 13:45	
TR-2ND-SB02-06-08-0613	A303499-22	2FV047.D	06/24/13 13:45	

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F28012 Batch Matrix: Soil

Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F28012-BLK1	2G1004.D	06/28/13 12:25	
LCS	3F28012-BS1	2G1005.D	06/28/13 12:25	
LCS Dup	3F28012-BSD1	2G1006.D	06/28/13 12:25	
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	2G1007.D	06/28/13 12:25	
TR-2ND-SB02-06-08-0613	A303499-22RE1	2G1008.D	06/28/13 12:25	

METHOD BLANK DATA SHEET
EPA 8082A

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F24029-BLK1	File ID:	2FV029.D
Prepared:	06/24/13 13:45	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL
Analyzed:	06/27/13 13:59	Instrument:	OSVGCECD2		
Batch:	3F24029	Sequence:	AA24725	Calibration:	1306059

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
12674-11-2	PCB-1016	<20	U
53469-21-9	PCB-1242	<20	U
12674-11-2/53469-21-9	PCB-1016/1242	<20	U
11104-28-2	PCB-1221	<20	U
11141-16-5	PCB-1232	<20	U
12672-29-6	PCB-1248	<20	U
11097-69-1	PCB-1254	<20	U
11096-82-5	PCB-1260	<20	U
37324-23-5	PCB-1262	<20	U
11100-14-4	PCB-1268	<20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	33.3	32	96	20 - 137	
Decachlorobiphenyl	33.3	34	103	60 - 125	

METHOD BLANK DATA SHEET
EPA 8082A

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F28012-BLK1	File ID:	2G1004.D
Prepared:	06/28/13 12:25	Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL
Analyzed:	07/01/13 09:08	Instrument:	OSVGCECD2		
Batch:	3F28012	Sequence:	AA24775	Calibration:	1306059

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
12674-11-2	PCB-1016	<20	U
53469-21-9	PCB-1242	<20	U
12674-11-2/53469-21-9	PCB-1016/1242	<20	U
11104-28-2	PCB-1221	<20	U
11141-16-5	PCB-1232	<20	U
12672-29-6	PCB-1248	<20	U
11097-69-1	PCB-1254	<20	U
11096-82-5	PCB-1260	<20	U
37324-23-5	PCB-1262	<20	U
11100-14-4	PCB-1268	<20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	33.3	27	82	20 - 137	
Decachlorobiphenyl	33.3	31	93	60 - 125	

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F24029	Laboratory ID:	3F24029-BS1
Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
PCB-1016		310		40 - 140
PCB-1242		ND		29 - 185
PCB-1016/1242	333	310	93	40 - 140
PCB-1221		ND		29 - 185
PCB-1232		ND		29 - 185
PCB-1248		ND		29 - 185
PCB-1254		ND		29 - 185
PCB-1260	333	330	99	60 - 130
PCB-1262		ND		29 - 185
PCB-1268		ND		29 - 185

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
PCB-1016		340		10	30	40 - 140
PCB-1242		ND			30	29 - 185
PCB-1016/1242	333	340	102	10	30	40 - 140
PCB-1221		ND			30	29 - 185
PCB-1232		ND			30	29 - 185
PCB-1248		ND			30	29 - 185
PCB-1254		ND			30	29 - 185
PCB-1260	333	340	101	2	30	60 - 130
PCB-1262		ND			30	29 - 185
PCB-1268		ND			30	29 - 185

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F28012	Laboratory ID:	3F28012-BS1
Preparation:	EPA 3550C	Initial/Final:	30 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
PCB-1016		280		40 - 140
PCB-1242		ND		29 - 185
PCB-1016/1242	333	280	84	40 - 140
PCB-1221		ND		29 - 185
PCB-1232		ND		29 - 185
PCB-1248		ND		29 - 185
PCB-1254		ND		29 - 185
PCB-1260	333	300	91	60 - 130
PCB-1262		ND		29 - 185
PCB-1268		ND		29 - 185

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
PCB-1016		290		4	30	40 - 140
PCB-1242		ND			30	29 - 185
PCB-1016/1242	333	290	87	4	30	40 - 140
PCB-1221		ND			30	29 - 185
PCB-1232		ND			30	29 - 185
PCB-1248		ND			30	29 - 185
PCB-1254		ND			30	29 - 185
PCB-1260	333	320	96	6	30	60 - 130
PCB-1262		ND			30	29 - 185
PCB-1268		ND			30	29 - 185

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

TR-2ND-SB07-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-06	File ID:	2FV032.D
Sampled:	06/19/13 10:20	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 14:42
Solids:	84.46	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
PCB-1254	* 2	4.341	4.923	0.582		100	96.3
PCB-1260	* 1	5.091	5.159333	0.0683		140	6.9
2,4,5,6-TCMX	* 1	2	2.0555	0.0555		23	8.33
Decachlorobiphenyl	* 1	6.003	6.069333	0.0663		28	3.51

* Column used for quantitation

TR-2ND-SB07-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-07	File ID:	2FV033.D
Sampled:	06/19/13 10:40	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 14:54
Solids:	80.68	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.996	2.0555	0.0595		23	8.33
Decachlorobiphenyl	* 1	6.001	6.069333	0.0683		32	3.08

* Column used for quantitation

TR-2ND-SB06-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-09	File ID:	2FV034.D
Sampled:	06/19/13 11:20	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 15:06
Solids:	84.06	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
PCB-1260	* 1	5.087	5.159333	0.0723		19	23.5
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		29	6.67
Decachlorobiphenyl	* 1	6	6.069333	0.0693		30	3.28

* Column used for quantitation

TR-2ND-SB06-05-07-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-10	File ID:	2FV035.D
Sampled:	06/19/13 11:30	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 15:18
Solids:	79.06	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		21	9.09
Decachlorobiphenyl	* 1	6	6.069333	0.0693		31	3.17

* Column used for quantitation

TR-2ND-SB06D-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-11	File ID:	2FV036.D
Sampled:	06/19/13 11:25	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 15:30
Solids:	83.39	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		31	6.25
Decachlorobiphenyl	* 1	6	6.069333	0.0693		27	3.77

* Column used for quantitation

TR-2ND-SB06D-05-07-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-12	File ID:	2FV039.D
Sampled:	06/19/13 11:35	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:06
Solids:	78.23	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		26	7.41
Decachlorobiphenyl	* 1	6	6.069333	0.0693		34	2.9

* Column used for quantitation

TR-2ND-SB04-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-14	File ID:	2FV040.D
Sampled:	06/19/13 12:50	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:19
Solids:	85.68	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
PCB-1260	* 1	5.086	5.159333	0.0733		400	0
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		25	0
Decachlorobiphenyl	* 1	6	6.069333	0.0693		32	0

* Column used for quantitation

TR-2ND-SB04-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-15	File ID:	2FV041.D
Sampled:	06/19/13 13:00	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:31
Solids:	79.34	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		21	9.09
Decachlorobiphenyl	* 1	6.001	6.069333	0.0683		30	3.28

* Column used for quantitation

TR-2ND-SB05-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17	File ID:	2FV042.D
Sampled:	06/19/13 13:30	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:43
Solids:	75.47	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
PCB-1254	* 2	4.343	4.923	0.58		27	29.8
PCB-1260	* 1	5.086	5.159333	0.0733		34	12.5
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		18	0
Decachlorobiphenyl	* 1	6.001	6.069333	0.0683		22	4.65

* Column used for quantitation

TR-2ND-SB05-03-05-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-18	File ID:	2FV043.D
Sampled:	06/19/13 13:40	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 16:55
Solids:	75.96	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		13	7.41
Decachlorobiphenyl	* 1	6	6.069333	0.0693		27	0

* Column used for quantitation

TR-2ND-SB03-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-19	File ID:	2FV044.D
Sampled:	06/19/13 14:00	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:07
Solids:	76.63	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		17	5.71
Decachlorobiphenyl	* 1	6	6.069333	0.0693		27	3.64

* Column used for quantitation

TR-2ND-SB03-04-06-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-20	File ID:	2FV045.D
Sampled:	06/19/13 14:10	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:19
Solids:	80.94	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.995	2.0555	0.0605		16	6.06
Decachlorobiphenyl	* 1	6	6.069333	0.0693		25	0

* Column used for quantitation

TR-2ND-SB02-0.5-1-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-21	File ID:	2FV046.D
Sampled:	06/19/13 14:15	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:31
Solids:	86.11	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	1.996	2.0555	0.0595		21	9.09
Decachlorobiphenyl	* 1	6	6.069333	0.0693		27	0

* Column used for quantitation

TR-2ND-SB02-06-08-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22	File ID:	2FV047.D
Sampled:	06/19/13 14:30	Prepared:	06/24/13 13:45	Analyzed:	06/27/13 17:43
Solids:	72.13	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F24029	Sequence:	AA24725		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
PCB-1254	* 2	4.342	4.923	0.581		150	18.2
PCB-1260	* 1	5.086	5.159333	0.0733		67	6.15
2,4,5,6-TCMX	* 1	1.996	2.0555	0.0595		13	7.41
Decachlorobiphenyl	* 1	6	6.069333	0.0693		26	0

* Column used for quantitation

TR-2ND-SB05-0.5-01-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-17RE1	File ID:	2G1007.D
Sampled:	06/19/13 13:30	Prepared:	06/28/13 12:25	Analyzed:	07/01/13 09:44
Solids:	75.47	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28012	Sequence:	AA24775		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
PCB-1254	* 1	4.247	4.151833	0.0952		85	25.6
PCB-1260	* 1	5.083	5.159333	0.0763		130	0
2,4,5,6-TCMX	* 1	1.998	2.0555	0.0575		34	5.71
Decachlorobiphenyl	* 1	5.991	6.069333	0.0783		39	0

* Column used for quantitation

TR-2ND-SB02-06-08-0613

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	A303499-22RE1	File ID:	2G1008.D
Sampled:	06/19/13 14:30	Prepared:	06/28/13 12:25	Analyzed:	07/01/13 09:57
Solids:	72.13	Preparation:	EPA 3550C	Instrument:	OSVGCECD2
Batch:	3F28012	Sequence:	AA24775		
GC Column(1):	Stx-CLP Pesticides, Diam:0.32mm, Le			GC Column(2):	Stx-CLP Pesticides2, Diam:0.32mm, Len:30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
PCB-1254	* 1	4.252	4.151833	0.1		760	12.6
PCB-1260	* 1	5.087	5.159333	0.0723		230	8.33
2,4,5,6-TCMX	* 1	2.002	2.0555	0.0535		33	2.99
Decachlorobiphenyl	* 1	5.994	6.069333	0.0753		38	5.13

* Column used for quantitation

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24639	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1306059

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Secondary Cal Check (AA24639-SCV1)			Lab File ID: 2FP008.D		Analyzed: 06/21/13 07:35			
2,4,5,6-TCMX	0.200	109	80 - 120	2.064	2.0555	0.0085	+/-1.0	
Decachlorobiphenyl	0.200	101	80 - 120	6.079	6.069333	0.0097	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24725	Instrument:	OSVGCECD2
Matrix:	Soil	Calibration:	1306059

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24725-CCV1)			Lab File ID: 2FV013.D		Analyzed: 06/27/13 10:36			
2,4,5,6-TCMX	0.100	102	80 - 120	1.998	2.0555	-0.0575	+/-1.0	
2,4,5,6-TCMX	0.100	102	80 - 120	1.998	2.0555	-0.0575	+/-1.0	
Decachlorobiphenyl	0.100	93	80 - 120	5.999	6.069333	-0.0703	+/-1.0	
Decachlorobiphenyl	0.100	93	80 - 120	5.999	6.069333	-0.0703	+/-1.0	
Aroclor Reference (AA24725-ARC1)			Lab File ID: 2FV014.D		Analyzed: 06/27/13 10:59			
2,4,5,6-TCMX	0.100	115		2.003	2.0555	-0.0525	+/-1.0	
2,4,5,6-TCMX	0.100	115		2.003	2.0555	-0.0525	+/-1.0	
Decachlorobiphenyl	0.100	127		6.003	6.069333	-0.0663	+/-1.0	
Decachlorobiphenyl	0.100	127		6.003	6.069333	-0.0663	+/-1.0	
Calibration Check (AA24725-CCV2)			Lab File ID: 2FV025.D		Analyzed: 06/27/13 13:11			
2,4,5,6-TCMX	0.100	111	80 - 120	1.999	2.0555	-0.0565	+/-1.0	
2,4,5,6-TCMX	0.100	111	80 - 120	1.999	2.0555	-0.0565	+/-1.0	
Decachlorobiphenyl	0.100	107	80 - 120	6	6.069333	-0.0693	+/-1.0	
Decachlorobiphenyl	0.100	107	80 - 120	6	6.069333	-0.0693	+/-1.0	
Aroclor Reference (AA24725-ARC2)			Lab File ID: 2FV026.D		Analyzed: 06/27/13 13:23			
2,4,5,6-TCMX	0.100	123		1.999	2.0555	-0.0565	+/-1.0	
2,4,5,6-TCMX	0.100	123		1.999	2.0555	-0.0565	+/-1.0	
Decachlorobiphenyl	0.100	144		6	6.069333	-0.0693	+/-1.0	
Decachlorobiphenyl	0.100	144		6	6.069333	-0.0693	+/-1.0	
Blank (3F24029-BLK1)			Lab File ID: 2FV029.D		Analyzed: 06/27/13 13:59			
2,4,5,6-TCMX	33.3	96	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
2,4,5,6-TCMX	33.3	96	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	33.3	103	60 - 125	6	6.069333	-0.0693	+/-1.0	
Decachlorobiphenyl	33.3	103	60 - 125	6	6.069333	-0.0693	+/-1.0	
LCS (3F24029-BS1)			Lab File ID: 2FV030.D		Analyzed: 06/27/13 14:11			
2,4,5,6-TCMX	33.3	97	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
2,4,5,6-TCMX	33.3	97	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
Decachlorobiphenyl	33.3	103	60 - 125	6	6.069333	-0.0693	+/-1.0	
Decachlorobiphenyl	33.3	103	60 - 125	6	6.069333	-0.0693	+/-1.0	
LCS Dup (3F24029-BSD1)			Lab File ID: 2FV031.D		Analyzed: 06/27/13 14:23			
2,4,5,6-TCMX	33.3	103	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
2,4,5,6-TCMX	33.3	103	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	33.3	110	60 - 125	5.999	6.069333	-0.0703	+/-1.0	
Decachlorobiphenyl	33.3	110	60 - 125	5.999	6.069333	-0.0703	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24725	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1306059

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB07-0.5-01-0613 (A303499-06)			Lab File ID: 2FV032.D		Analyzed: 06/27/13 14:42			
2,4,5,6-TCMX	39.5	58	20 - 137	2	2.0555	-0.0555	+/-1.0	
Decachlorobiphenyl	39.5	72	60 - 125	6.003	6.069333	-0.0663	+/-1.0	
TR-2ND-SB07-04-06-0613 (A303499-07)			Lab File ID: 2FV033.D		Analyzed: 06/27/13 14:54			
2,4,5,6-TCMX	41.3	55	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
Decachlorobiphenyl	41.3	78	60 - 125	6.001	6.069333	-0.0683	+/-1.0	
TR-2ND-SB06-0.5-01-0613 (A303499-09)			Lab File ID: 2FV034.D		Analyzed: 06/27/13 15:06			
2,4,5,6-TCMX	39.1	73	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	39.1	77	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB06-05-07-0613 (A303499-10)			Lab File ID: 2FV035.D		Analyzed: 06/27/13 15:18			
2,4,5,6-TCMX	41.6	50	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	41.6	75	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB06D-0.5-01-0613 (A303499-11)			Lab File ID: 2FV036.D		Analyzed: 06/27/13 15:30			
2,4,5,6-TCMX	39.4	78	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	39.4	68	60 - 125	6	6.069333	-0.0693	+/-1.0	
Calibration Check (AA24725-CCV3)			Lab File ID: 2FV037.D		Analyzed: 06/27/13 15:42			
2,4,5,6-TCMX	0.100	116	80 - 120	2	2.0555	-0.0555	+/-1.0	
2,4,5,6-TCMX	0.100	116	80 - 120	2	2.0555	-0.0555	+/-1.0	
Decachlorobiphenyl	0.100	106	80 - 120	6	6.069333	-0.0693	+/-1.0	
Decachlorobiphenyl	0.100	106	80 - 120	6	6.069333	-0.0693	+/-1.0	
Aroclor Reference (AA24725-ARC3)			Lab File ID: 2FV038.D		Analyzed: 06/27/13 15:54			
2,4,5,6-TCMX	0.100	126		1.999	2.0555	-0.0565	+/-1.0	
2,4,5,6-TCMX	0.100	126		1.999	2.0555	-0.0565	+/-1.0	
Decachlorobiphenyl	0.100	144		6	6.069333	-0.0693	+/-1.0	
Decachlorobiphenyl	0.100	144		6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB06D-05-07-0613 (A303499-12)			Lab File ID: 2FV039.D		Analyzed: 06/27/13 16:06			
2,4,5,6-TCMX	42.5	62	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	42.5	80	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB04-0.5-01-0613 (A303499-14)			Lab File ID: 2FV040.D		Analyzed: 06/27/13 16:19			
2,4,5,6-TCMX	38.8	64	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	38.8	82	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB04-04-06-0613 (A303499-15)			Lab File ID: 2FV041.D		Analyzed: 06/27/13 16:31			
2,4,5,6-TCMX	41.5	50	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	41.5	73	60 - 125	6.001	6.069333	-0.0683	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24725	Instrument:	OSVGCECD2
Matrix:	Water	Calibration:	1306059

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
TR-2ND-SB05-0.5-01-0613 (A303499-17)			Lab File ID: 2FV042.D		Analyzed: 06/27/13 16:43			
2,4,5,6-TCMX	43.9	40	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	43.9	49	60 - 125	6.001	6.069333	-0.0683	+/-1.0	*
TR-2ND-SB05-03-05-0613 (A303499-18)			Lab File ID: 2FV043.D		Analyzed: 06/27/13 16:55			
2,4,5,6-TCMX	43.6	30	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	43.6	61	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB03-0.5-01-0613 (A303499-19)			Lab File ID: 2FV044.D		Analyzed: 06/27/13 17:07			
2,4,5,6-TCMX	42.8	39	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	42.8	64	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB03-04-06-0613 (A303499-20)			Lab File ID: 2FV045.D		Analyzed: 06/27/13 17:19			
2,4,5,6-TCMX	41.0	40	20 - 137	1.995	2.0555	-0.0605	+/-1.0	
Decachlorobiphenyl	41.0	60	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB02-0.5-1-0613 (A303499-21)			Lab File ID: 2FV046.D		Analyzed: 06/27/13 17:31			
2,4,5,6-TCMX	38.6	55	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
Decachlorobiphenyl	38.6	69	60 - 125	6	6.069333	-0.0693	+/-1.0	
TR-2ND-SB02-06-08-0613 (A303499-22)			Lab File ID: 2FV047.D		Analyzed: 06/27/13 17:43			
2,4,5,6-TCMX	45.9	28	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
Decachlorobiphenyl	45.9	57	60 - 125	6	6.069333	-0.0693	+/-1.0	*
Calibration Check (AA24725-CCV4)			Lab File ID: 2FV048.D		Analyzed: 06/27/13 17:55			
2,4,5,6-TCMX	0.100	118	80 - 120	1.999	2.0555	-0.0565	+/-1.0	
2,4,5,6-TCMX	0.100	118	80 - 120	1.999	2.0555	-0.0565	+/-1.0	
Decachlorobiphenyl	0.100	129	80 - 120	6	6.069333	-0.0693	+/-1.0	*
Decachlorobiphenyl	0.100	129	80 - 120	6	6.069333	-0.0693	+/-1.0	*
Aroclor Reference (AA24725-ARC4)			Lab File ID: 2FV049.D		Analyzed: 06/27/13 18:07			
2,4,5,6-TCMX	0.100	130		1.999	2.0555	-0.0565	+/-1.0	
2,4,5,6-TCMX	0.100	130		1.999	2.0555	-0.0565	+/-1.0	
Decachlorobiphenyl	0.100	158		6	6.069333	-0.0693	+/-1.0	
Decachlorobiphenyl	0.100	158		6	6.069333	-0.0693	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24775	Instrument:	OSVGCECD2
Matrix:	Soil	Calibration:	1306059

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24775-CCV1)			Lab File ID: 2G1002.D		Analyzed: 07/01/13 08:42			
2,4,5,6-TCMX	0.100	103	80 - 120	1.992	2.0555	-0.0635	+/-1.0	
2,4,5,6-TCMX	0.100	103	80 - 120	1.992	2.0555	-0.0635	+/-1.0	
Decachlorobiphenyl	0.100	94	80 - 120	5.986	6.069333	-0.0833	+/-1.0	
Decachlorobiphenyl	0.100	94	80 - 120	5.986	6.069333	-0.0833	+/-1.0	
Aroclor Reference (AA24775-ARC1)			Lab File ID: 2G1003.D		Analyzed: 07/01/13 08:56			
2,4,5,6-TCMX	0.100	114		1.996	2.0555	-0.0595	+/-1.0	
2,4,5,6-TCMX	0.100	114		1.996	2.0555	-0.0595	+/-1.0	
Decachlorobiphenyl	0.100	134		5.986	6.069333	-0.0833	+/-1.0	
Decachlorobiphenyl	0.100	134		5.986	6.069333	-0.0833	+/-1.0	
Blank (3F28012-BLK1)			Lab File ID: 2G1004.D		Analyzed: 07/01/13 09:08			
2,4,5,6-TCMX	33.3	82	20 - 137	1.992	2.0555	-0.0635	+/-1.0	
2,4,5,6-TCMX	33.3	82	20 - 137	1.992	2.0555	-0.0635	+/-1.0	
Decachlorobiphenyl	33.3	93	60 - 125	5.986	6.069333	-0.0833	+/-1.0	
Decachlorobiphenyl	33.3	93	60 - 125	5.986	6.069333	-0.0833	+/-1.0	
LCS (3F28012-BS1)			Lab File ID: 2G1005.D		Analyzed: 07/01/13 09:20			
2,4,5,6-TCMX	33.3	93	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
2,4,5,6-TCMX	33.3	93	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
Decachlorobiphenyl	33.3	101	60 - 125	5.988	6.069333	-0.0813	+/-1.0	
Decachlorobiphenyl	33.3	101	60 - 125	5.988	6.069333	-0.0813	+/-1.0	
LCS Dup (3F28012-BSD1)			Lab File ID: 2G1006.D		Analyzed: 07/01/13 09:32			
2,4,5,6-TCMX	33.3	94	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
2,4,5,6-TCMX	33.3	94	20 - 137	1.996	2.0555	-0.0595	+/-1.0	
Decachlorobiphenyl	33.3	107	60 - 125	5.99	6.069333	-0.0793	+/-1.0	
Decachlorobiphenyl	33.3	107	60 - 125	5.99	6.069333	-0.0793	+/-1.0	
TR-2ND-SB05-0.5-01-0613 (A303499-17RE1)			Lab File ID: 2G1007.D		Analyzed: 07/01/13 09:44			
2,4,5,6-TCMX	44.2	77	20 - 137	1.998	2.0555	-0.0575	+/-1.0	
Decachlorobiphenyl	44.2	89	60 - 125	5.991	6.069333	-0.0783	+/-1.0	
TR-2ND-SB02-06-08-0613 (A303499-22RE1)			Lab File ID: 2G1008.D		Analyzed: 07/01/13 09:57			
2,4,5,6-TCMX	46.2	71	20 - 137	2.002	2.0555	-0.0535	+/-1.0	
Decachlorobiphenyl	46.2	83	60 - 125	5.994	6.069333	-0.0753	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24775	Instrument:	OSVGCECD2
Matrix:	Soil	Calibration:	1306059

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA24775-CCV2)			Lab File ID: 2G1009.D		Analyzed: 07/01/13 10:09			
2,4,5,6-TCMX	0.100	96	80 - 120	2.007	2.0555	-0.0485	+/-1.0	
2,4,5,6-TCMX	0.100	96	80 - 120	2.007	2.0555	-0.0485	+/-1.0	
Decachlorobiphenyl	0.100	104	80 - 120	5.997	6.069333	-0.0723	+/-1.0	
Decachlorobiphenyl	0.100	104	80 - 120	5.997	6.069333	-0.0723	+/-1.0	
Aroclor Reference (AA24775-ARC2)			Lab File ID: 2G1010.D		Analyzed: 07/01/13 10:21			
2,4,5,6-TCMX	0.100	110		2.01	2.0555	-0.0455	+/-1.0	
2,4,5,6-TCMX	0.100	110		2.01	2.0555	-0.0455	+/-1.0	
Decachlorobiphenyl	0.100	141		5.999	6.069333	-0.0703	+/-1.0	
Decachlorobiphenyl	0.100	141		5.999	6.069333	-0.0703	+/-1.0	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24639	Instrument:	OSVGCECD2
		Calibration:	1306059

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	AA24639-CAL1	2FP002.D	06/21/13 05:57
Cal Standard	AA24639-CAL2	2FP003.D	06/21/13 06:09
Cal Standard	AA24639-CAL3	2FP004.D	06/21/13 06:21
Cal Standard	AA24639-CAL4	2FP005.D	06/21/13 06:33
Cal Standard	AA24639-CAL5	2FP006.D	06/21/13 06:45
Cal Standard	AA24639-CAL6	2FP007.D	06/21/13 06:57
Secondary Cal Check	AA24639-SCV1	2FP008.D	06/21/13 07:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24725

Instrument: OSVGCECD2

Calibration: 1306059

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	AA24725-CCV1	2FV013.D	06/27/13 10:36
Aroclor Reference	AA24725-ARC1	2FV014.D	06/27/13 10:59
Calibration Check	AA24725-CCV2	2FV025.D	06/27/13 13:11
Aroclor Reference	AA24725-ARC2	2FV026.D	06/27/13 13:23
Blank	3F24029-BLK1	2FV029.D	06/27/13 13:59
LCS	3F24029-BS1	2FV030.D	06/27/13 14:11
LCS Dup	3F24029-BSD1	2FV031.D	06/27/13 14:23
TR-2ND-SB07-0.5-01-0613	A303499-06	2FV032.D	06/27/13 14:42
TR-2ND-SB07-04-06-0613	A303499-07	2FV033.D	06/27/13 14:54
TR-2ND-SB06-0.5-01-0613	A303499-09	2FV034.D	06/27/13 15:06
TR-2ND-SB06-05-07-0613	A303499-10	2FV035.D	06/27/13 15:18
TR-2ND-SB06D-0.5-01-0613	A303499-11	2FV036.D	06/27/13 15:30
Calibration Check	AA24725-CCV3	2FV037.D	06/27/13 15:42
Aroclor Reference	AA24725-ARC3	2FV038.D	06/27/13 15:54
TR-2ND-SB06D-05-07-0613	A303499-12	2FV039.D	06/27/13 16:06
TR-2ND-SB04-0.5-01-0613	A303499-14	2FV040.D	06/27/13 16:19
TR-2ND-SB04-04-06-0613	A303499-15	2FV041.D	06/27/13 16:31
TR-2ND-SB05-0.5-01-0613	A303499-17	2FV042.D	06/27/13 16:43
TR-2ND-SB05-03-05-0613	A303499-18	2FV043.D	06/27/13 16:55
TR-2ND-SB03-0.5-01-0613	A303499-19	2FV044.D	06/27/13 17:07
TR-2ND-SB03-04-06-0613	A303499-20	2FV045.D	06/27/13 17:19
TR-2ND-SB02-0.5-1-0613	A303499-21	2FV046.D	06/27/13 17:31
TR-2ND-SB02-06-08-0613	A303499-22	2FV047.D	06/27/13 17:43
Calibration Check	AA24725-CCV4	2FV048.D	06/27/13 17:55
Aroclor Reference	AA24725-ARC4	2FV049.D	06/27/13 18:07

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24775	Instrument:	OSVGCECD2
		Calibration:	1306059

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	AA24775-CCV1	2G1002.D	07/01/13 08:42
Aroclor Reference	AA24775-ARC1	2G1003.D	07/01/13 08:56
Blank	3F28012-BLK1	2G1004.D	07/01/13 09:08
LCS	3F28012-BS1	2G1005.D	07/01/13 09:20
LCS Dup	3F28012-BSD1	2G1006.D	07/01/13 09:32
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	2G1007.D	07/01/13 09:44
TR-2ND-SB02-06-08-0613	A303499-22RE1	2G1008.D	07/01/13 09:57
Calibration Check	AA24775-CCV2	2G1009.D	07/01/13 10:09
Aroclor Reference	AA24775-ARC2	2G1010.D	07/01/13 10:21

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1306059
Lab File ID:	2FV013.D	Calibration Date:	06/21/13 12:34
Sequence:	AA24725	Injection Date:	06/27/13
Lab Sample ID:	AA24725-CCV1	Injection Time:	10:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
PCB-1016/1242	A	1.00	0.86	1.879291E+08	1.692674E+08		-9.9	20
PCB-1260	A	1.00	0.84	3.729462E+08	3.2468E+08		-12.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1306059
Lab File ID:	2FV025.D	Calibration Date:	06/21/13 12:34
Sequence:	AA24725	Injection Date:	06/27/13
Lab Sample ID:	AA24725-CCV2	Injection Time:	13:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
PCB-1016/1242	A	1.00	0.96	1.879291E+08	1.8926E+08		0.7	20
PCB-1260	A	1.00	1.1	3.729462E+08	4.1116E+08		10.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1306059
Lab File ID:	2FV037.D	Calibration Date:	06/21/13 12:34
Sequence:	AA24725	Injection Date:	06/27/13
Lab Sample ID:	AA24725-CCV3	Injection Time:	15:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
PCB-1016/1242	A	1.00	0.98	1.879291E+08	1.9248E+08		2.4	20
PCB-1260	A	1.00	1.0	3.729462E+08	3.975E+08		6.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1306059
Lab File ID:	2FV048.D	Calibration Date:	06/21/13 12:34
Sequence:	AA24725	Injection Date:	06/27/13
Lab Sample ID:	AA24725-CCV4	Injection Time:	17:55

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
PCB-1016/1242	A	1.00	1.0	1.879291E+08	2.0628E+08		9.8	20
PCB-1260	A	1.00	1.1	3.729462E+08	4.49E+08		20.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1306059
Lab File ID:	2G1002.D	Calibration Date:	06/21/13 12:34
Sequence:	AA24775	Injection Date:	07/01/13
Lab Sample ID:	AA24775-CCV1	Injection Time:	08:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
PCB-1016/1242	A	1.00	0.83	1.879291E+08	1.630003E+08		-13.3	20
PCB-1260	A	1.00	0.83	3.729462E+08	3.1362E+08		-15.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID:	OSVGCECD2	Calibration:	1306059
Lab File ID:	2G1009.D	Calibration Date:	06/21/13 12:34
Sequence:	AA24775	Injection Date:	07/01/13
Lab Sample ID:	AA24775-CCV2	Injection Time:	10:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
PCB-1016/1242	A	1.00	0.83	1.879291E+08	1.632064E+08		-13.2	20
PCB-1260	A	1.00	0.87	3.729462E+08	3.3744E+08		-9.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA21281		
Calibration:	1306059	Instrument:	OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A2F0251	PCB1254 Working Curve Cal-1	AA21281-CAL1		
A2F0250	PCB1254 Working Curve Cal-2	AA21281-CAL2		
A2F0249	PCB1254 Working Curve Cal-3	AA21281-CAL3		
A2F0248	PCB1254 Working Curve Cal-4	AA21281-CAL4		
A2F0247	PCB1254 Working Curve Cal-5	AA21281-CAL5		
A2F0246	PCB1254 working Curve Cal-6	AA21281-CAL6		
A2F0251	PCB1254 Working Curve Cal-1	AA21281-CAL1	2In009.D	09/19/12 12:48
A2F0250	PCB1254 Working Curve Cal-2	AA21281-CAL2	2In010.D	09/19/12 13:00
A2F0249	PCB1254 Working Curve Cal-3	AA21281-CAL3	2In011.D	09/19/12 13:12
A2F0248	PCB1254 Working Curve Cal-4	AA21281-CAL4	2In012.D	09/19/12 13:24
A2F0247	PCB1254 Working Curve Cal-5	AA21281-CAL5	2In013.D	09/19/12 13:36
A2F0246	PCB1254 working Curve Cal-6	AA21281-CAL6	2In014.D	09/19/12 13:48
A2F0252	PCB1254 Working SCV1	AA21281-SCV1	2In015.D	09/19/12 14:00

INITIAL CALIBRATION STANDARDS

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA21359		
Calibration:	1306059	Instrument:	OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A2H0453	PCB1221/1268 working Curve Cal-1	AA21359-CAL1		
A2H0452	PCB1221/1268 working Curve Cal-2	AA21359-CAL2		
A2H0451	PCB1221/1268 working Curve Cal-3	AA21359-CAL3		
A2H0450	PCB1221/1268 working Curve Cal-4	AA21359-CAL4		
A2H0449	PCB1221/1268 working Curve Cal-5	AA21359-CAL5		
A2H0448	PCB1221/1268 working Curve Cal-6	AA21359-CAL6		
A2H0453	PCB1221/1268 working Curve Cal-1	AA21359-CAL1	2IS020.D	09/24/12 14:10
A2H0452	PCB1221/1268 working Curve Cal-2	AA21359-CAL2	2IS021.D	09/24/12 14:22
A2H0451	PCB1221/1268 working Curve Cal-3	AA21359-CAL3	2IS022.D	09/24/12 14:34
A2H0450	PCB1221/1268 working Curve Cal-4	AA21359-CAL4	2IS023.D	09/24/12 14:45
A2H0449	PCB1221/1268 working Curve Cal-5	AA21359-CAL5	2IS024.D	09/24/12 14:57

A2H0448	PCB1221/1268 working Curve Cal-6	AA21359-CAL6	2IS025.D	09/24/12 15:09
A2H0454	PCB1221/1268 working SCV1	AA21359-SCV1	2IS026.D	09/24/12 15:21

INITIAL CALIBRATION STANDARDS

EPA 8082A

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA21361
Calibration: 1306059
Instrument: OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A2H0461	PCB1232 working Curve Cal-1	AA21361-CAL1		
A2H0460	PCB1232 working Curve Cal-2	AA21361-CAL2		
A2H0459	PCB1232 working Curve Cal-3	AA21361-CAL3		
A2H0458	PCB1232 working Curve Cal-4	AA21361-CAL4		
A2H0457	PCB1232 working Curve Cal-5	AA21361-CAL5		
A2H0456	PCB1232 working Curve Cal-6	AA21361-CAL6		
A2H0461	PCB1232 working Curve Cal-1	AA21361-CAL1	2IS037.D	09/24/12 17:33
A2H0460	PCB1232 working Curve Cal-2	AA21361-CAL2	2IS038.D	09/24/12 17:45
A2H0459	PCB1232 working Curve Cal-3	AA21361-CAL3	2IS039.D	09/24/12 17:57
A2H0458	PCB1232 working Curve Cal-4	AA21361-CAL4	2IS040.D	09/24/12 18:09
A2H0457	PCB1232 working Curve Cal-5	AA21361-CAL5	2IS041.D	09/24/12 18:21
A2H0456	PCB1232 working Curve Cal-6	AA21361-CAL6	2IS042.D	09/24/12 18:33
A2H0462	PCB1232 Working SCV1	AA21361-SCV1	2IS043.D	09/24/12 18:45

INITIAL CALIBRATION STANDARDS

EPA 8082A

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA21362
Calibration: 1306059
Instrument: OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A2H0468	PCB1242 working Curve Cal-1	AA21362-CAL1		
A2H0467	PCB1242 working Curve Cal-2	AA21362-CAL2		
A2H0466	PCB1242 working Curve Cal-3	AA21362-CAL3		
A2H0465	PCB1242 working Curve Cal-4	AA21362-CAL4		
A2H0464	PCB1242 working Curve Cal-5	AA21362-CAL5		
A2H0463	PCB1242 working Curve Cal-6	AA21362-CAL6		
A2H0468	PCB1242 working Curve Cal-1	AA21362-CAL1	2IS049.D	09/24/12 19:56
A2H0467	PCB1242 working Curve Cal-2	AA21362-CAL2	2IS050.D	09/24/12 20:08
A2H0466	PCB1242 working Curve Cal-3	AA21362-CAL3	2IS051.D	09/24/12 20:20

A2H0465	PCB1242 working Curve Cal-4	AA21362-CAL4	2IS052.D	09/24/12 20:32
A2H0464	PCB1242 working Curve Cal-5	AA21362-CAL5	2IS053.D	09/24/12 20:44
A2H0463	PCB1242 working Curve Cal-6	AA21362-CAL6	2IS054.D	09/24/12 20:56
A2H0469	PCB1242 working SCV1	AA21362-SCV1	2IS055.D	09/24/12 21:08

INITIAL CALIBRATION STANDARDS

EPA 8082A

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA21363
Calibration: 1306059
Instrument: OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A2F0244	PCB1248 working Curve Cal-1	AA21363-CAL1		
A2F0243	PCB1248 working Curve Cal-2	AA21363-CAL2		
A2F0242	PCB1248 working Curve Cal-3	AA21363-CAL3		
A2F0241	PCB1248 working Curve Cal-4	AA21363-CAL4		
A2F0240	PCB1248 working Curve Cal-5	AA21363-CAL5		
A2F0239	PCB1248 working Curve Cal-6	AA21363-CAL6		
A2F0244	PCB1248 working Curve Cal-1	AA21363-CAL1	2IS061.D	09/24/12 22:20
A2F0243	PCB1248 working Curve Cal-2	AA21363-CAL2	2IS062.D	09/24/12 22:31
A2F0242	PCB1248 working Curve Cal-3	AA21363-CAL3	2IS063.D	09/24/12 22:43
A2F0241	PCB1248 working Curve Cal-4	AA21363-CAL4	2IS064.D	09/24/12 22:55
A2F0240	PCB1248 working Curve Cal-5	AA21363-CAL5	2IS065.D	09/24/12 23:07
A2F0239	PCB1248 working Curve Cal-6	AA21363-CAL6	2IS066.D	09/24/12 23:19
A2F0245	PCB1248 working SCV1	AA21363-SCV1	2IS067.D	09/24/12 23:31

INITIAL CALIBRATION STANDARDS

EPA 8082A

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: AA21364
Calibration: 1306059
Instrument: OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A2F0258	PCB1262 working Curve Cal-1	AA21364-CAL1		
A2F0257	PCB1262 working Curve Cal-2	AA21364-CAL2		
A2F0256	PCB1262 working Curve Cal-3	AA21364-CAL3		
A2F0255	PCB1262 working Curve Cal-4	AA21364-CAL4		
A2F0254	PCB1262 working Curve Cal-5	AA21364-CAL5		
A2F0253	PCB1262 working Curve Cal-6	AA21364-CAL6		
A2F0258	PCB1262 working Curve Cal-1	AA21364-CAL1	2IT041.D	09/25/12 17:44

A2F0257	PCB1262 working Curve Cal-2	AA21364-CAL2	2IT042.D	09/25/12 17:56
A2F0256	PCB1262 working Curve Cal-3	AA21364-CAL3	2IT043.D	09/25/12 18:08
A2F0255	PCB1262 working Curve Cal-4	AA21364-CAL4	2IT044.D	09/25/12 18:20
A2F0254	PCB1262 working Curve Cal-5	AA21364-CAL5	2IT045.D	09/25/12 18:32
A2F0253	PCB1262 working Curve Cal-6	AA21364-CAL6	2IT046.D	09/25/12 18:44
A2F0259	PCB1262 working SCV1	AA21364-SCV1	2IT047.D	09/25/12 18:56

INITIAL CALIBRATION STANDARDS

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	AA24639		
Calibration:	1306059	Instrument:	OSVGCECD2

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A3F0327	PCB working Curve Cal-1	AA24639-CAL1	2FP002.D	06/21/13 05:57
A3F0326	PCB working Curve Cal-2	AA24639-CAL2	2FP003.D	06/21/13 06:09
A3F0325	PCB working Curve Cal-3	AA24639-CAL3	2FP004.D	06/21/13 06:21
A3F0324	PCB working Curve Cal-4	AA24639-CAL4	2FP005.D	06/21/13 06:33
A3F0323	PCB working Curve Cal-5	AA24639-CAL5	2FP006.D	06/21/13 06:45
A3F0322	PCB working Curve Cal-6	AA24639-CAL6	2FP007.D	06/21/13 06:57
A3F0328	PCB Working SCV	AA24639-SCV1	2FP008.D	06/21/13 07:35

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306059	Instrument:	OSVGCECD2
Matrix:	Water	Calibration Date:	06/21/13 12:34

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
PCB-1242												
PCB-1016/1242	0.05	1.812458E+08	0.1	1.703737E+08	0.5	1.784503E+08	1	1.905E+08	2	1.9945E+08	4	2.07555E+08
PCB-1221												
PCB-1232												
PCB-1248												
PCB-1254												
PCB-1260	0.05	3.400074E+08	0.1	3.246848E+08	0.5	3.5876E+08	1	3.9098E+08	2	4.0657E+08	4	4.16675E+08
PCB-1262												
PCB-1268												
2,4,5,6-TCMX	0.005	5.80439E+09	0.01	5.535086E+09	0.05	6.318E+09	0.1	6.835E+09	0.2	6.9745E+09	0.4	6.8095E+09
Decachlorobiphenyl	0.005	3.698132E+09	0.01	3.391956E+09	0.05	2.97E+09	0.1	3.641E+09	0.2	3.7025E+09	0.4	4.1725E+09

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306059

Instrument: OSVGCECD2

Matrix: Water

Calibration Date: 06/21/13 12:34

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
PCB-1242												
PCB-1016/1242												
PCB-1221	0.05	5.300792E+07	0.1	5.298486E+07	0.5	4.841172E+07	1	4.948608E+07	2	5.56229E+07	4	4.888702E+07
PCB-1232												
PCB-1248												
PCB-1254												
PCB-1260												
PCB-1262												
PCB-1268	0.05	5.09981E+08	0.1	5.336354E+08	0.5	5.379288E+08	1	5.632E+08	2	6.0012E+08	4	5.16785E+08
2,4,5,6-TCMX												
Decachlorobiphenyl												

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306059	Instrument:	OSVGCECD2
Matrix:	Water	Calibration Date:	06/21/13 12:34

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
PCB-1242												
PCB-1016/1242												
PCB-1221												
PCB-1232	0.05	9.031958E+07	0.1	1.027652E+08	0.5	9.548606E+07	1	1.062246E+08	2	1.0265E+08	4	1.08235E+08
PCB-1248												
PCB-1254												
PCB-1260												
PCB-1262												
PCB-1268												
2,4,5,6-TCMX												
Decachlorobiphenyl												

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306059	Instrument:	OSVGCECD2
Matrix:	Water	Calibration Date:	06/21/13 12:34

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
PCB-1242	0.05	1.361145E+08	0.1	1.594544E+08	0.5	~~1.377104E+08~~	1	1.530366E+08	2	1.5451E+08	4	1.30365E+08
PCB-1016/1242												
PCB-1221												
PCB-1232												
PCB-1248												
PCB-1254												
PCB-1260												
PCB-1262												
PCB-1268												
2,4,5,6-TCMX												
Decachlorobiphenyl												

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration:	1306059	Instrument:	OSVGCECD2
Matrix:	Water	Calibration Date:	06/21/13 12:34

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
PCB-1242	1.451985E+08	8.206922	2.841167	1.618934E-02			20	
PCB-1016/1242	1.879291E+08	7.400893	2.986333	5.450101E-02			20	
PCB-1221	5.140008E+07	5.627776	2.488333	9.992557E-02			20	
PCB-1232	1.009467E+08	6.717817	2.841167	1.618934E-02			20	
PCB-1248	1.211483E+08	13.6061	4.336167	2.288307E-02			20	
PCB-1254	2.475075E+08	6.018156	4.151833	0.0344291			20	
PCB-1260	3.729462E+08	10.02077	5.159333	1.758687E-02			20	
PCB-1262	3.046227E+08	3.025629	4.97	1.024623E-02			20	
PCB-1268	5.436084E+08	6.13399	5.772167	4.188827E-02			20	
2,4,5,6-TCMX	6.379413E+09	9.389498	2.0555	8.167486E-02			20	
Decachlorobiphenyl	3.596015E+09	11.05131	6.069333	1.804396E-02	0.9962989		0.99	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306059

Laboratory ID: AA24639-SCV1

Sequence: AA24639

Standard ID: A3F0328

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
2,4,5,6-TCMX	0.200	0.22	9.4	20.00
Decachlorobiphenyl	0.200	0.20	0.9	20.00
PCB-1016/1242	2.00	2.0	-0.5	20.00
PCB-1260	2.00	2.0	0.3	20.00

* Values outside of QC limits

ANALYSIS SEQUENCE

AA24725

Instrument: OSVGCECD2

Calibration ID: 1306059

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24725-CCV1	QC		1		A3F0300		
AA24725-ARC1	QC		2		A3D0289		
3F20028-BLK1	QC		3				
3F20028-BS1	QC		4				
3F20028-BSD1	QC		5				
A303479-02	8082A DOD	A	6				CH2M Hill, Inc. (CH025)
3F27007-BLK1	QC		7				
3F27007-BS1	QC		8				
3F27007-BSD1	QC		9				
A303557-02	8082A DOD	A	10				CH2M Hill, Inc. (CH025)
A303557-03	8082A DOD	A	11				CH2M Hill, Inc. (CH025)
A303557-04	8082A DOD	A	12				CH2M Hill, Inc. (CH025)
AA24725-CCV2	QC		13		A3F0300		
AA24725-ARC2	QC		14		A3D0289		
A303557-05	8082A DOD	A	15				CH2M Hill, Inc. (CH025)
A303588-05	8082A DOD	A	16				CH2M Hill, Inc. (CH025)
3F24029-BLK1	QC		17				
3F24029-BS1	QC		18				
3F24029-BSD1	QC		19				
A303499-06	8082A DOD	E	20				CH2M Hill, Inc. (CH025)
A303499-07	8082A DOD	E	21				CH2M Hill, Inc. (CH025)
A303499-09	8082A DOD	F	22				CH2M Hill, Inc. (CH025)
A303499-10	8082A DOD	F	23				CH2M Hill, Inc. (CH025)
A303499-11	8082A DOD	E	24				CH2M Hill, Inc. (CH025)
AA24725-CCV3	QC		25		A3F0300		
AA24725-ARC3	QC		26		A3D0289		
A303499-12	8082A DOD	E	27				CH2M Hill, Inc. (CH025)
A303499-14	8082A DOD	E	28				CH2M Hill, Inc. (CH025)
A303499-15	8082A DOD	E	29				CH2M Hill, Inc. (CH025)
A303499-17	8082A DOD	E	30				CH2M Hill, Inc. (CH025)
A303499-18	8082A DOD	E	31				CH2M Hill, Inc. (CH025)
A303499-19	8082A DOD	E	32				CH2M Hill, Inc. (CH025)
A303499-20	8082A DOD	E	33				CH2M Hill, Inc. (CH025)

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

ANALYSIS SEQUENCE

AA24725

Instrument: OSVGCECD2

Calibration ID: 1306059

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
A303499-21	8082A DOD	F	34				CH2M Hill, Inc. (CH025)
A303499-22	8082A DOD	F	35				CH2M Hill, Inc. (CH025)
AA24725-CCV4	QC		36		A3F0300		
AA24725-ARC4	QC		37		A3D0289		

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/24/2013 3:45:34PM

Analysis
8082A DOD [EPA 8082A]

3F24029
ENCO Orlando

Surrogate Solution
___ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0384 PCB Spike Working Mix

Prepared using: EPA 3550C

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F24029-BLK1		Blank		QC	—	—	30.0	10			1000		
3F24029-BS1		LCS		QC	—	—	30.0	10	A3E0384	1000	1000		
3F24029-BSD1		LCS Dup		QC	—	—	30.0	10	A3E0384	1000	1000		
A303499-06	3 D	TR-2ND-SB07-0.5-01-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.0	10			1000		
A303499-07	4 D	TR-2ND-SB07-04-06-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.0	10			1000		
A303499-09	5 D	TR-2ND-SB06-0.5-01-0613 F[C11]	11-Jul-13	8082A DOD	—	—	30.4	10			1000		
A303499-10	6 D	TR-2ND-SB06-05-07-0613 F[C11]	11-Jul-13	8082A DOD	—	—	30.4	10			1000		
A303499-11	7 D	TR-2ND-SB06D-0.5-01-0613 E[ENCO	11-Jul-13	8082A DOD	—	—	30.4	10			1000		
A303499-12	8 D	TR-2ND-SB06D-05-07-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.1	10			1000		
A303499-14	9 D	TR-2ND-SB04-0.5-01-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.1	10			1000		
A303499-15	10 D	TR-2ND-SB04-04-06-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.4	10			1000		
A303499-17	11 D	TR-2ND-SB05-0.5-01-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.2	10			1000		
A303499-18	12 D	TR-2ND-SB05-03-05-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.2	10			1000		
A303499-19	13 D	TR-2ND-SB03-0.5-01-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.5	10			1000		
A303499-20	14 D	TR-2ND-SB03-04-06-0613 E[C11]	11-Jul-13	8082A DOD	—	—	30.1	10			1000		
A303499-21	15 D	TR-2ND-SB02-0.5-1-0613 F[C11]	11-Jul-13	8082A DOD	—	—	30.1	10			1000		
A303499-22	16 D	TR-2ND-SB02-06-08-0613 F[C11]	11-Jul-13	8082A DOD	—	—	30.2	10			1000		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

PREPARATION BENCH SHEET

Printed: 6/24/2013 3:45:34PM

3F24029

ENCO Orlando

Surrogate Solution
___ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0384 PCB Spike Working Mix

Prepared using: EPA 3550C

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
8082 soil													

Start Date/Time 6/24/13 13:45

StopDate/Time 6/24/13 17:30

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3D0357	Solvent Hexane	130939
A3F0037	Solvent Dichloromethane	Solvent Lot # DI492

Equipment Used

Sonicator OSON-2,-3 Tuned per manufacturer instructions? [N] Yes [ ] No [ ] NA

Turbovap OTVAP-1 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP-2 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Turbovap OTVAP-3 Temperature: 40°C N2 pressure (initial): 3 psi (final): 12 psi

Balance OEXTBAL7 Daily calibration complete? [N] Yes [ ] No [ ] NA

Other

MAC 6/24/13
Samples Prepared By Date

Samples Prepared By Date

Samples Prepared By Date

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 10:36
Operator : RC
Sample : AA24725-CCV1
Misc : AA24724-CCV2
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:57:16 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.998	1.879	652.9E6	535.2E6	0.1023	0.1054
2)	PCB1016#1	2.222	2.162	90237020	85892788	0.7617	0.8059
3)	PCB1016#2	2.451	2.407	202.5E6	178.1E6	0.8947	0.8934
4)	PCB1016#3	2.771	2.940	272.9E6	84443053	0.9092	0.9281
5)	PCB1016#4	2.864	2.972	174.9E6	90491162	0.8640	0.9201
6)	PCB1016#5	2.910	3.000	105.8E6	69030291	0.8587	0.7738
7)	PCB1260#6	4.170	4.176	250.0E6	244.8E6	0.8379	0.8617
8)	PCB1260#7	4.389	4.342	376.3E6	294.3E6	0.8617	0.9580
9)	PCB1260#8	4.687	4.678	229.4E6	220.3E6	0.8494	0.9114
10)	PCB1260#9	4.867	4.889	235.8E6	240.5E6	0.7961	0.9073
11)	PCB1260#10	5.086	5.065	531.9E6	529.2E6	0.8418	0.9823
12)	DECACHLOR...	5.999	6.053	350.7E6	368.3E6	0.0928	0.0990

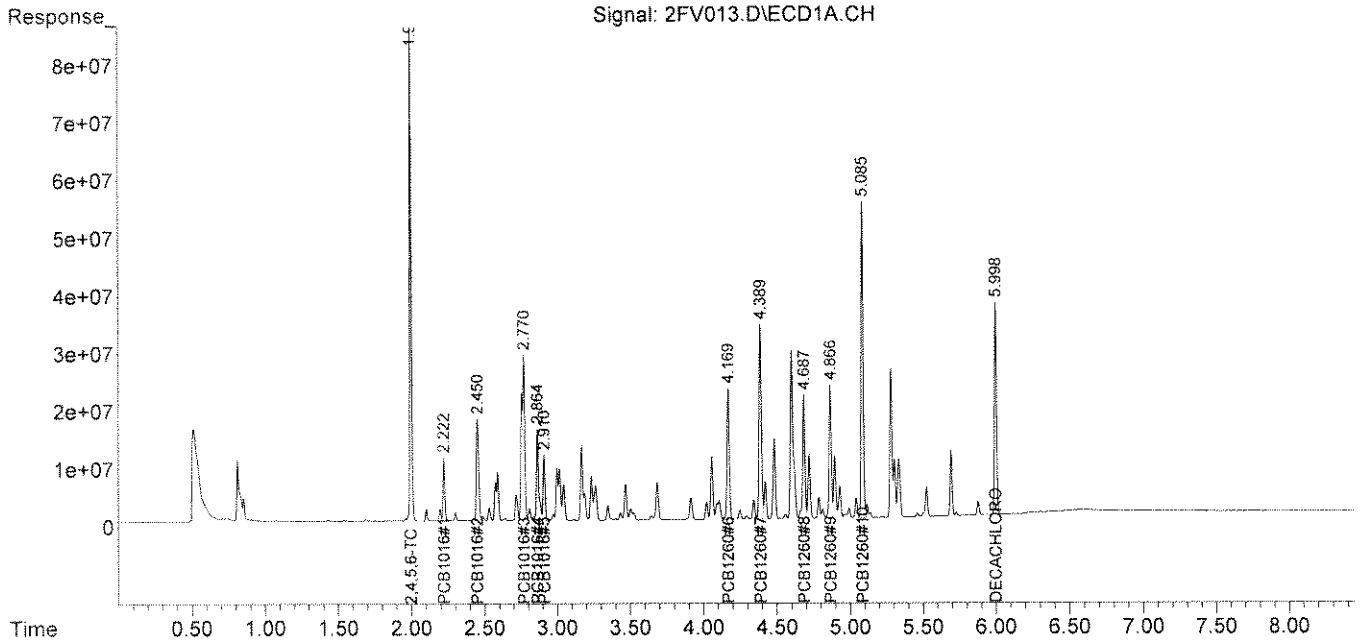
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

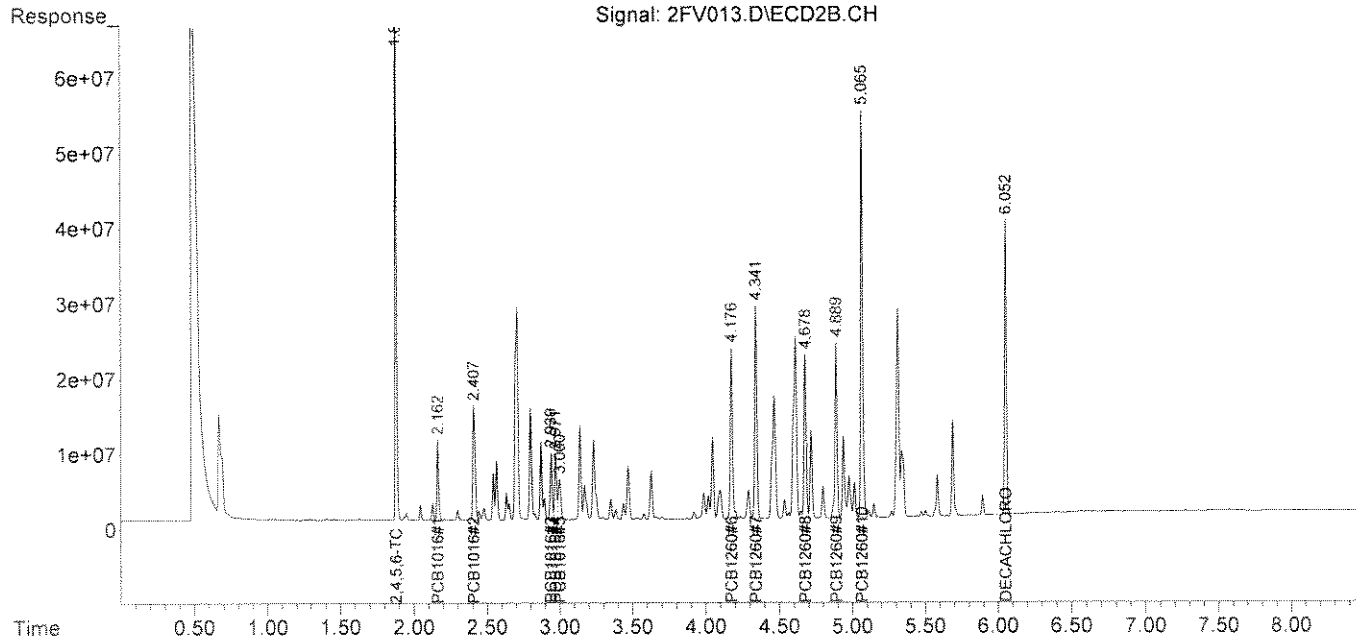
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 10:36
Operator : RC
Sample : AA24725-CCV1
Misc : AA24724-CCV2
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 10:57:16 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 10:59
Operator : RC
Sample : AA24725-ARC1
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:12 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.003	1.879	659.4E6	530.3E6	0.1149	0.0786	#
2)	PCB1254#1	3.478	3.469	184.5E6	194.7E6	1.0261	0.7598	#
3)	PCB1254#2	3.693	3.626	336.8E6	225.2E6	1.0654	0.8152	
4)	PCB1254#3	3.928	3.920	198.4E6	167.4E6	1.0420	0.7832	
5)	PCB1254#4	4.029	4.016	352.0E6	332.0E6	1.0978	0.9121	
6)	PCB1254#5	4.253	4.341	255.4E6	144.1E6	1.1077	0.8032	#
7)	DECACHLOR...	6.003	6.053	361.1E6	381.9E6	0.1268	0.1143	

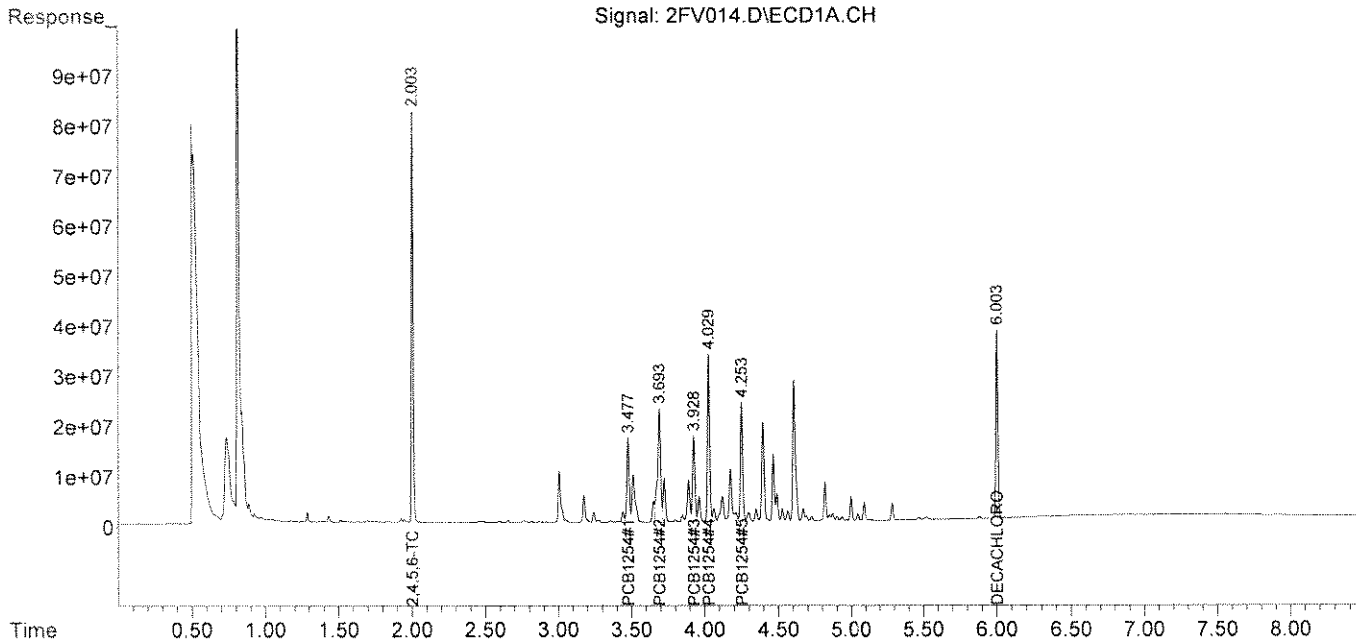
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

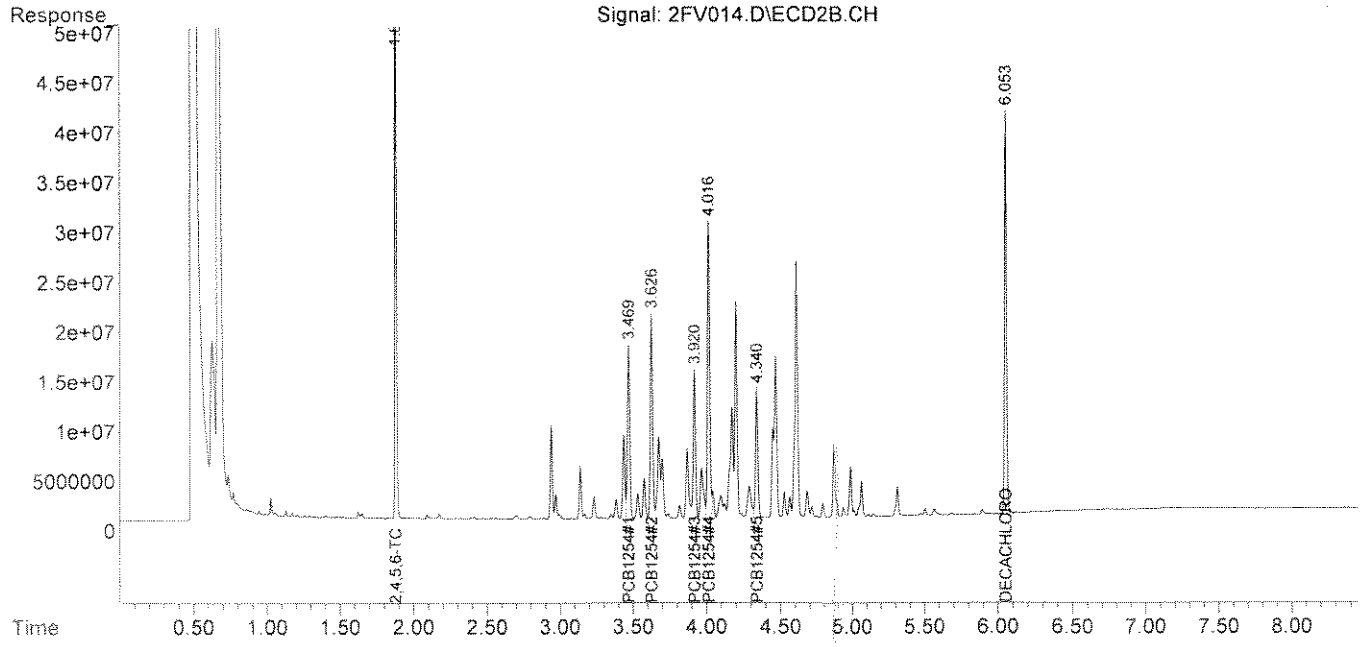
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 10:59
Operator : RC
Sample : AA24725-ARC1
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:12 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 13:11
Operator : RC
Sample : AA24725-CCV2
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:20:11 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.999	1.880	708.9E6	577.6E6	0.1111	0.1137
2)	PCB1016#1	2.223	2.163	103.0E6	93128163	0.8694	0.8737
3)	PCB1016#2	2.451	2.409	220.2E6	190.3E6	0.9726	0.9545
4)	PCB1016#3	2.771	2.941	310.1E6	92145666	1.0260	1.0127
5)	PCB1016#4	2.865	2.972	194.4E6	99250431	0.9601	1.0091
6)	PCB1016#5	2.911	3.000	118.6E6	74955903	0.9542	0.8402
7)	PCB1260#6	4.171	4.176	306.3E6	286.4E6	1.0268	1.0083
8)	PCB1260#7	4.390	4.342	470.7E6	344.7E6	1.0779	1.1220
9)	PCB1260#8	4.687	4.678	289.7E6	266.1E6	1.0726	1.1011
10)	PCB1260#9	4.867	4.889	301.2E6	294.0E6	1.0001	1.1091
11)	PCB1260#10	5.086	5.066	687.9E6	650.9E6	1.0782	1.2082
12)	DECACHLOR...	6.000	6.054	410.5E6	425.7E6	0.1071	0.1135

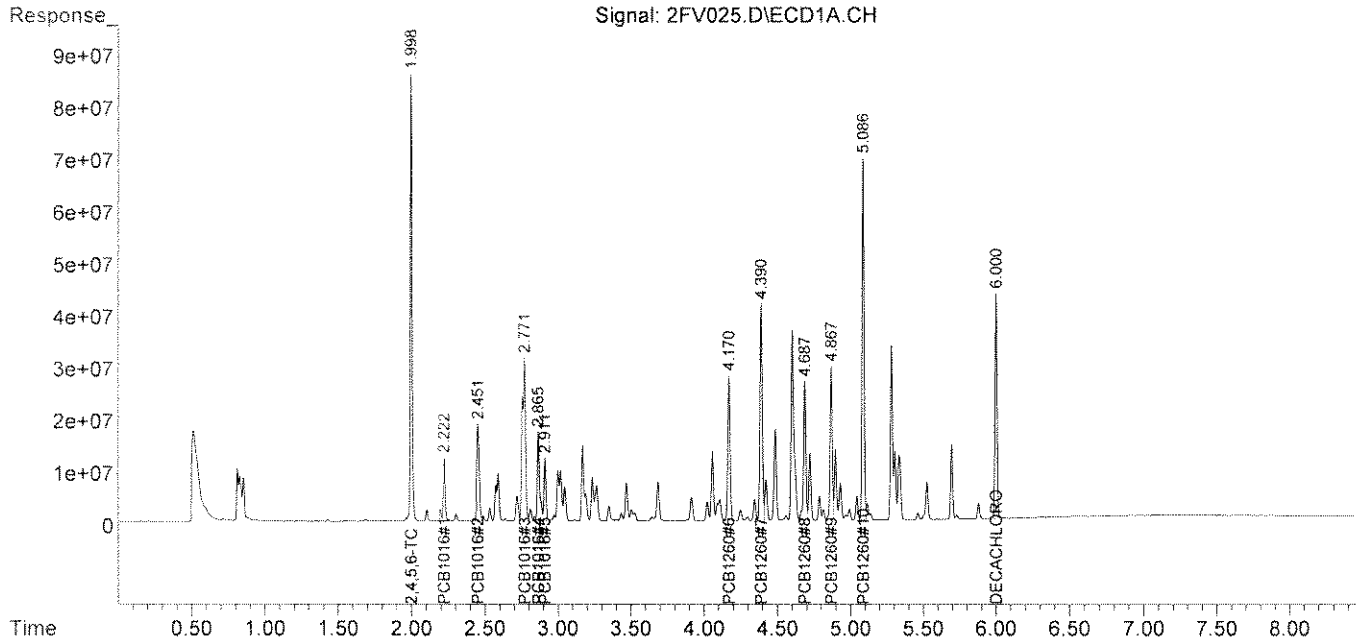
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

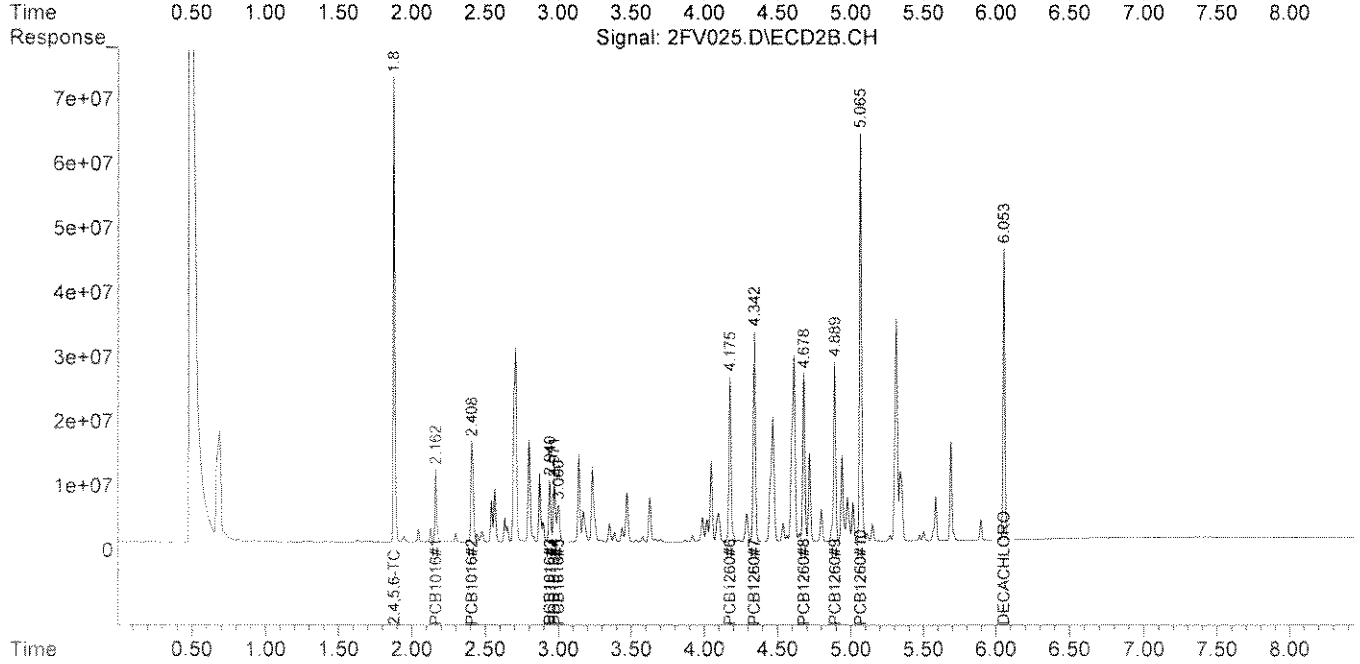
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 13:11
Operator : RC
Sample : AA24725-CCV2
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:20:11 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 13:23
Operator : RC
Sample : AA24725-ARC2
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:15 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.999	1.880	704.8E6	558.3E6	0.1228	0.0828	#
2)	PCB1254#1	3.471	3.471	203.9E6	212.3E6	1.1340	0.8284	#
3)	PCB1254#2	3.686	3.628	373.5E6	245.9E6	1.1814	0.8900	
4)	PCB1254#3	3.922	3.922	226.4E6	180.4E6	1.1891	0.8442	#
5)	PCB1254#4	4.022	4.018	405.8E6	365.5E6	1.2657	1.0040	
6)	PCB1254#5	4.247	4.342	299.3E6	162.6E6	1.2977	0.9063	#
7)	DECACHLOR...	6.000	6.053	410.5E6	404.1E6	0.1442	0.1215	

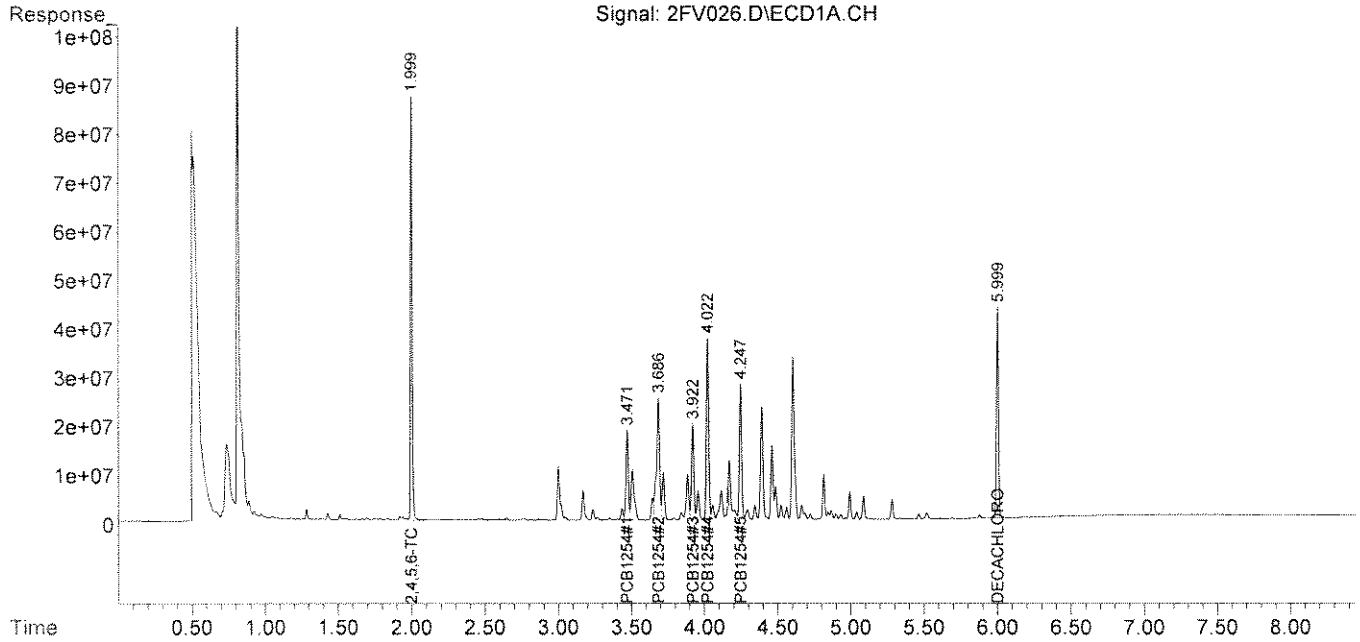
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

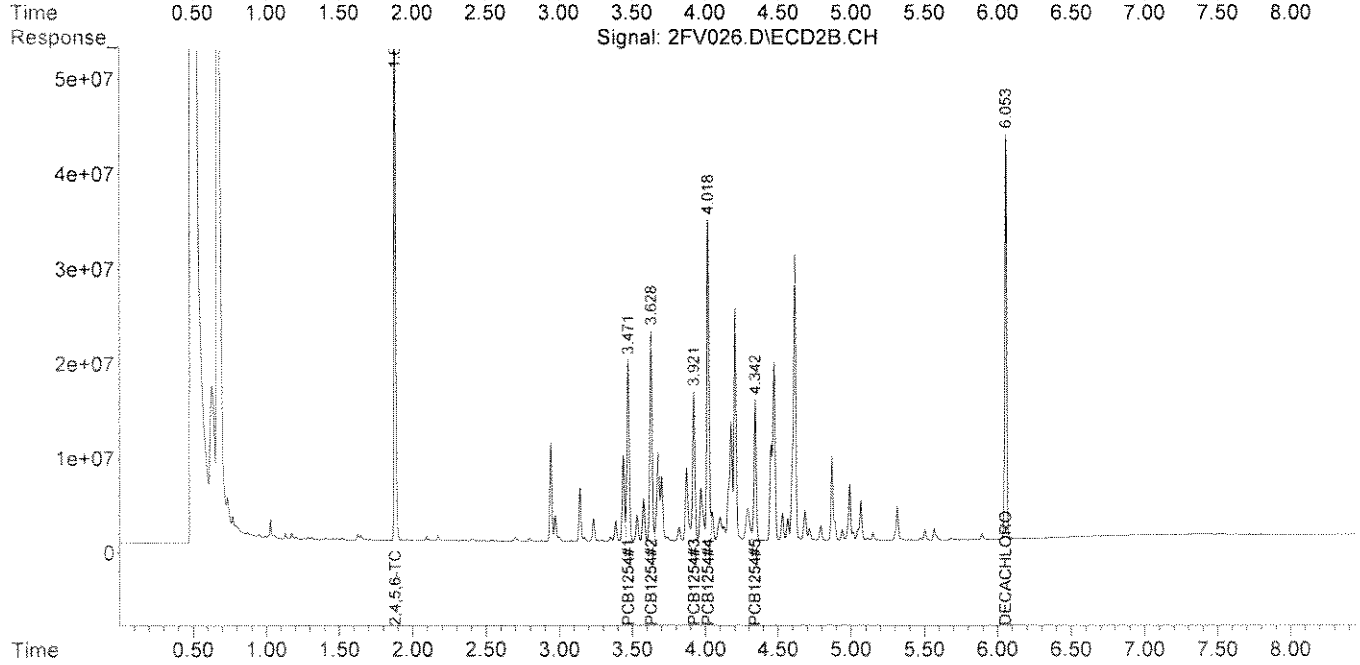
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 13:23
Operator : RC
Sample : AA24725-ARC2
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:15 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:42
Operator : RC
Sample : AA24725-CCV3
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:19:36 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	2.000	1.881	740.2E6	588.2E6	0.1160	0.1158
2)	PCB1016#1	2.224	2.164	107.2E6	95762040	0.9050	0.8985
3)	PCB1016#2	2.452	2.409	222.6E6	197.7E6	0.9831	0.9919
4)	PCB1016#3	2.772	2.942	311.7E6	93803203	1.0309	1.0309
5)	PCB1016#4	2.866	2.973	199.6E6	100.8E6	0.9861	1.0248
6)	PCB1016#5	2.912	3.001	121.3E6	77197870	0.9742	0.8653
7)	PCB1260#6	4.172	4.177	304.2E6	284.9E6	1.0197	1.0031
8)	PCB1260#7	4.391	4.343	461.9E6	338.2E6	1.0577	1.1010
9)	PCB1260#8	4.688	4.679	275.8E6	257.8E6	1.0212	1.0664
10)	PCB1260#9	4.868	4.890	287.6E6	280.8E6	0.9577	1.0596
11)	PCB1260#10	5.087	5.067	658.0E6	618.5E6	1.0329	1.1482
12)	DECACHLOR...	6.000	6.054	404.8E6	412.6E6	0.1057	0.1102

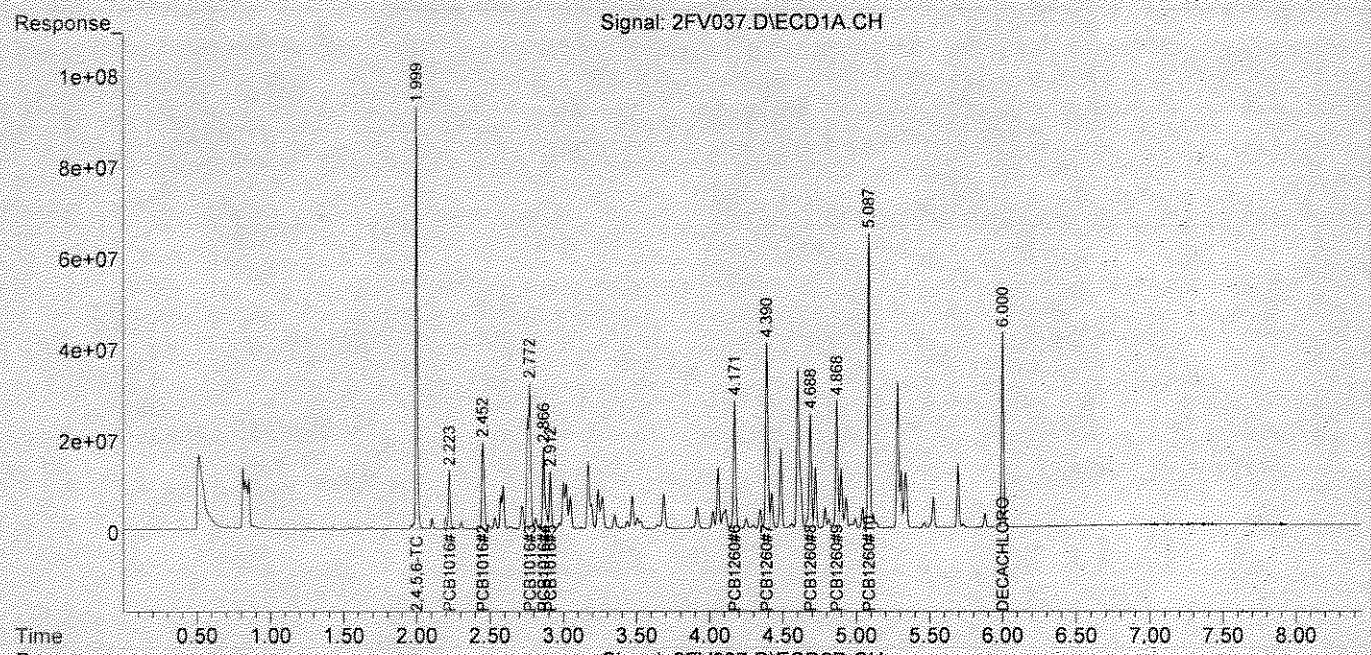
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

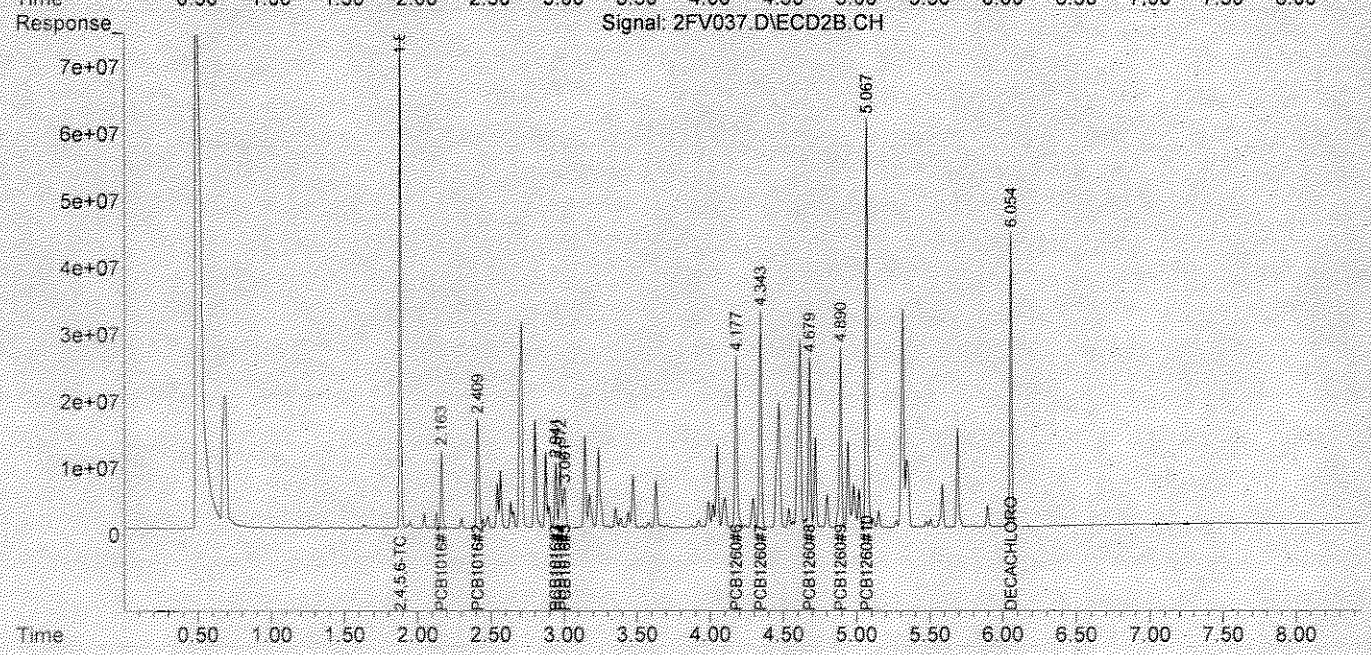
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:42
Operator : RC
Sample : AA24725-CCV3
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:19:36 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:54
Operator : RC
Sample : AA24725-ARC3
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:24 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.999	1.880	724.2E6	568.6E6	0.1262	0.0843	#
2)	PCB1254#1	3.472	3.471	204.7E6	212.2E6	1.1388	0.8282	#
3)	PCB1254#2	3.687	3.629	374.8E6	245.6E6	1.1855	0.8890	#
4)	PCB1254#3	3.922	3.923	228.6E6	189.3E6	1.2006	0.8856	#
5)	PCB1254#4	4.023	4.019	409.0E6	367.5E6	1.2755	1.0097	
6)	PCB1254#5	4.248	4.343	303.8E6	161.7E6	1.3176	0.9014	#
7)	DECACHLOR...	6.000	6.054	410.2E6	408.6E6	0.1441	0.1229	

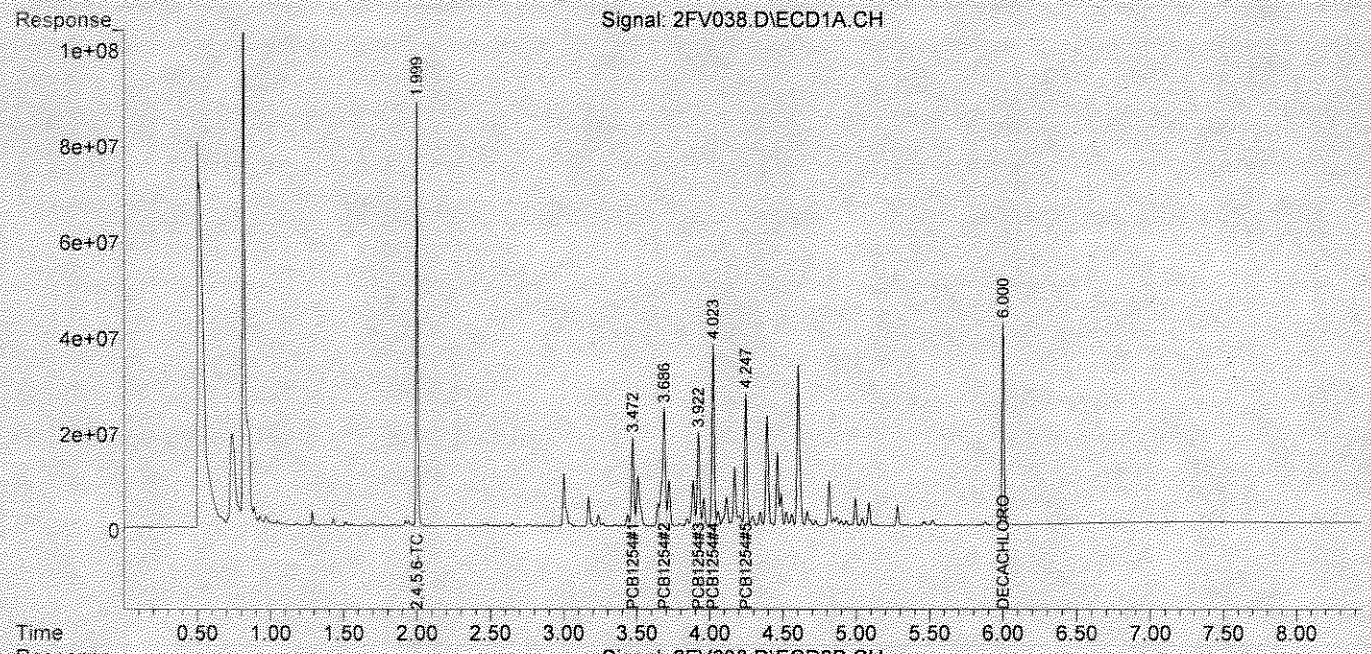
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

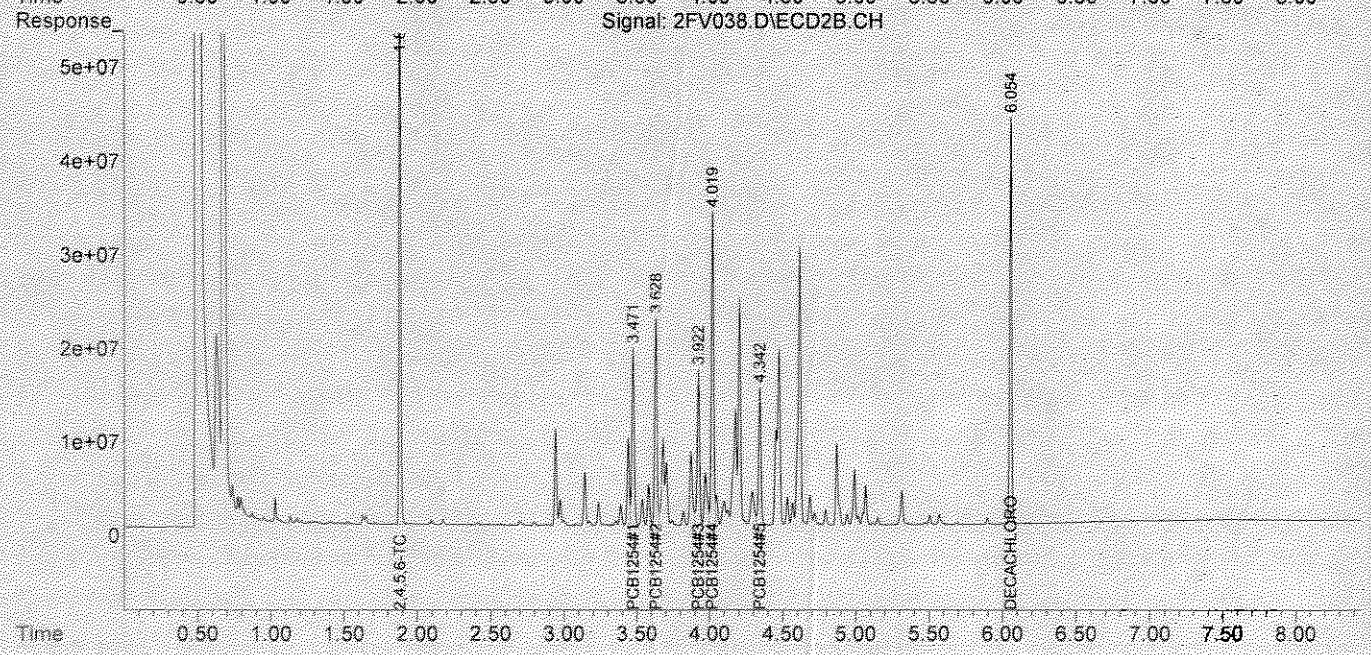
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:54
Operator : RC
Sample : AA24725-ARC3
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:24 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:55
Operator : RC
Sample : AA24725-CCV4
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:48:28 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.999	1.880	752.0E6	602.8E6	0.1179	0.1187
2)	PCB1016#1	2.224	2.163	113.4E6	98767621	0.9568	0.9267
3)	PCB1016#2	2.452	2.408	236.4E6	203.3E6	1.0443	1.0200
4)	PCB1016#3	2.772	2.941	337.6E6	98152178	1.1121	1.0787
5)	PCB1016#4	2.866	2.973	213.7E6	105.5E6	1.0557	1.0730
6)	PCB1016#5	2.912	3.001	130.3E6	80302762	1.0413	0.9001
7)	PCB1260#6	4.171	4.177	333.1E6	305.9E6	1.1166	1.0770
8)	PCB1260#7	4.390	4.343	515.0E6	367.4E6	1.1794	1.1962
9)	PCB1260#8	4.688	4.679	314.8E6	284.0E6	1.1657	1.1751
10)	PCB1260#9	4.868	4.890	328.3E6	314.5E6	1.0849	1.1867
11)	PCB1260#10	5.087	5.066	753.8E6	701.1E6	1.1781	1.3014
12)	DECACHLOR...	6.000	6.054	503.8E6	499.6E6	0.1294	0.1321

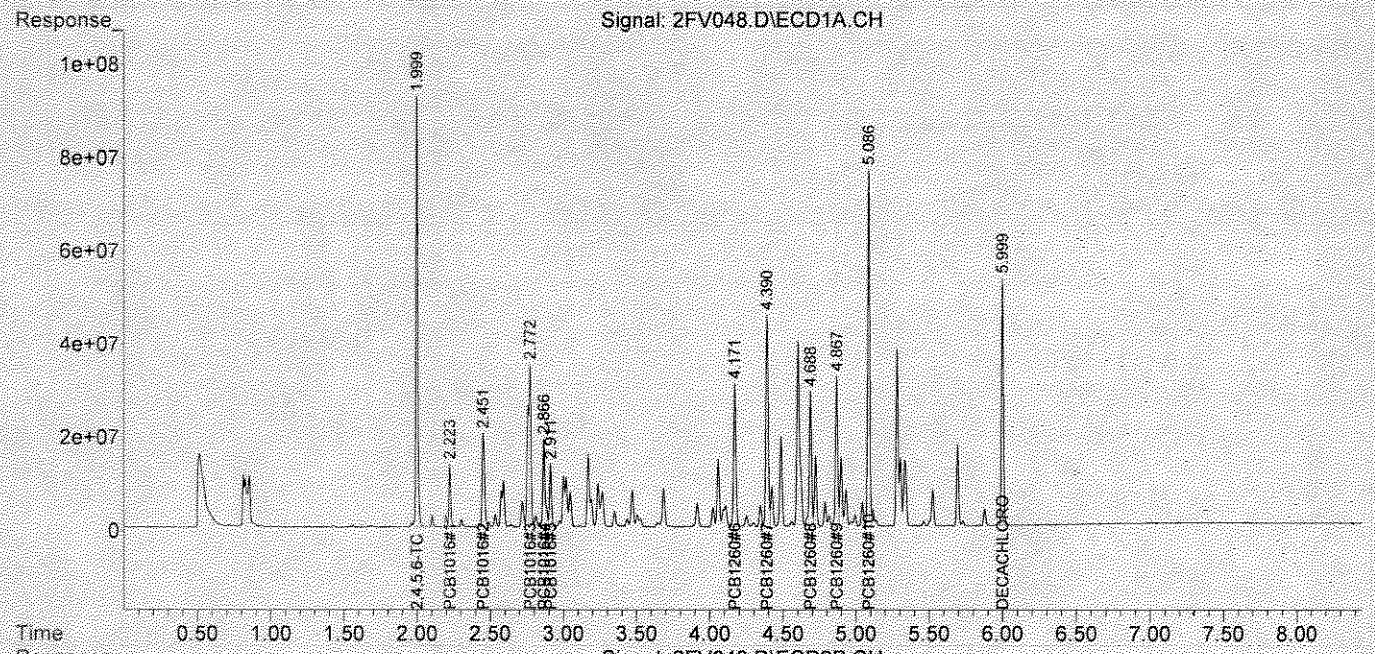
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

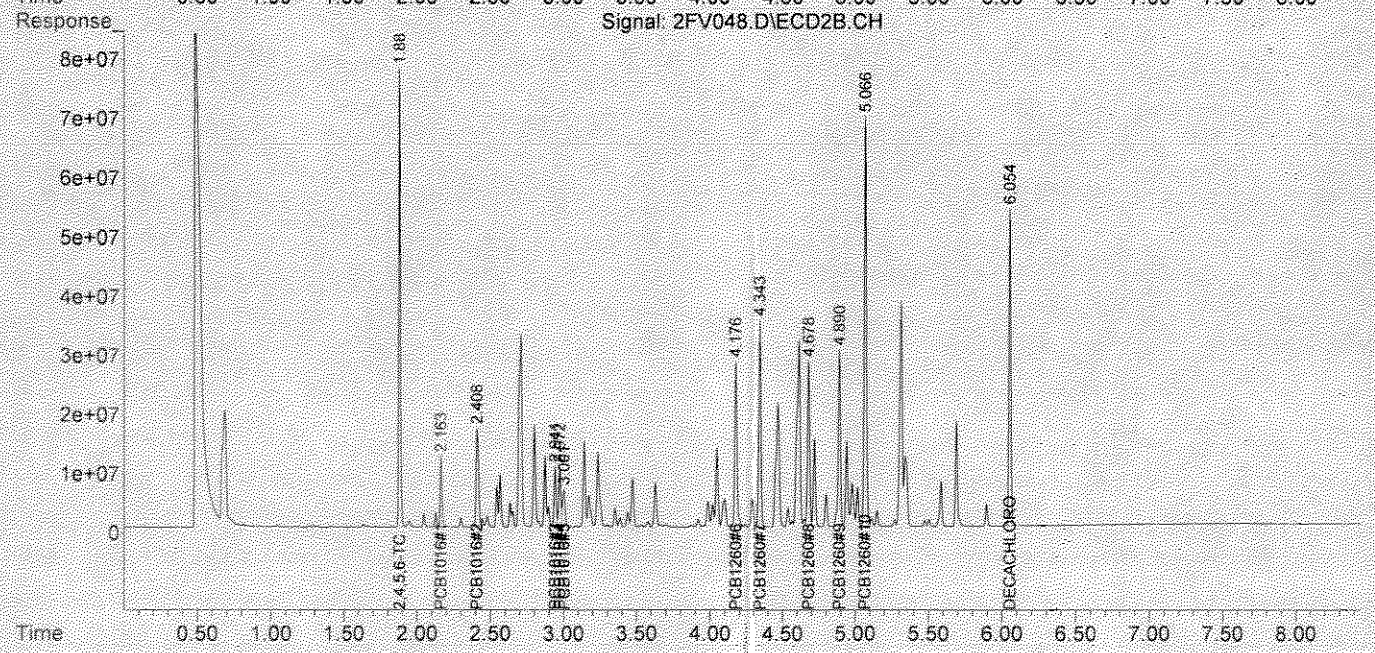
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:55
Operator : RC
Sample : AA24725-CCV4
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:48:28 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 18:07
Operator : RC
Sample : AA24725-ARC4
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 12:04:33 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.999	1.880	745.5E6	591.5E6	0.1299	0.0877	#
2)	PCB1254#1	3.472	3.472	211.9E6	218.3E6	1.1786	0.8516	#
3)	PCB1254#2	3.686	3.629	385.8E6	251.8E6	1.2205	0.9116	#
4)	PCB1254#3	3.922	3.923	235.5E6	192.3E6	1.2367	0.8996	#
5)	PCB1254#4	4.023	4.019	422.0E6	375.9E6	1.3161	1.0326	
6)	PCB1254#5	4.248	4.343	313.5E6	167.6E6	1.3595	0.9342	#
7)	DECACHLOR...	6.000	6.054	450.5E6	456.4E6	0.1582	0.1384	

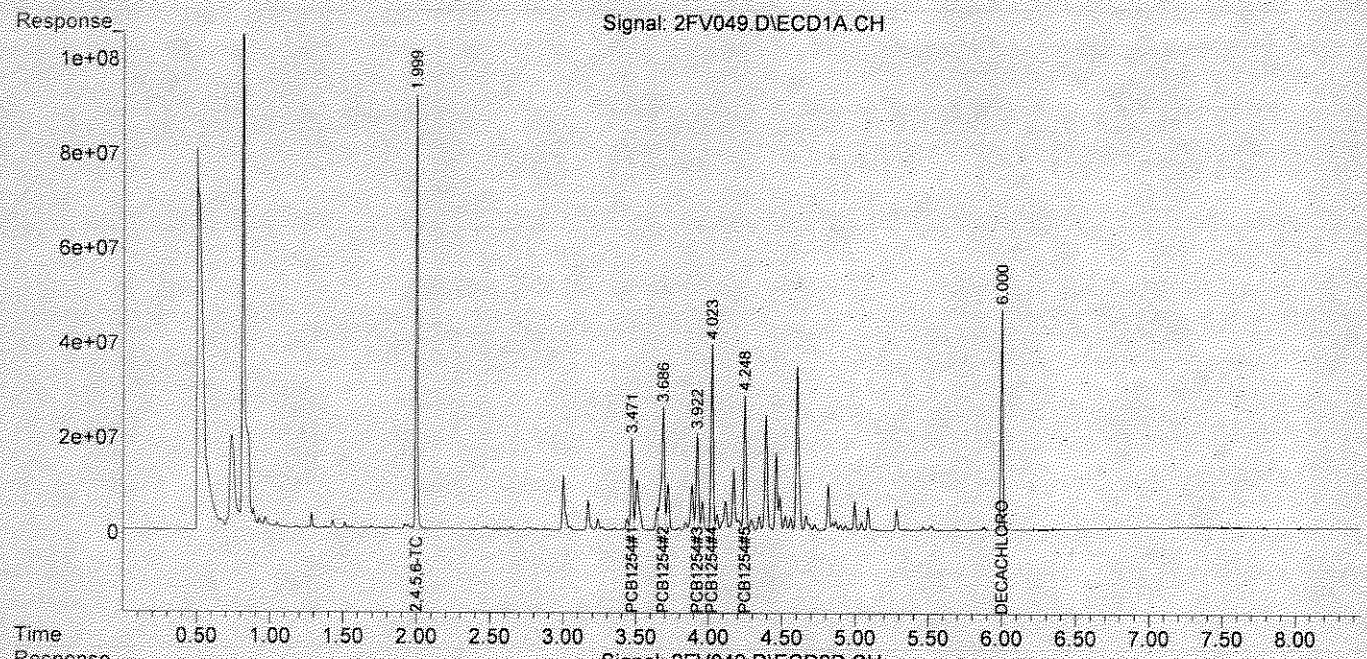
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

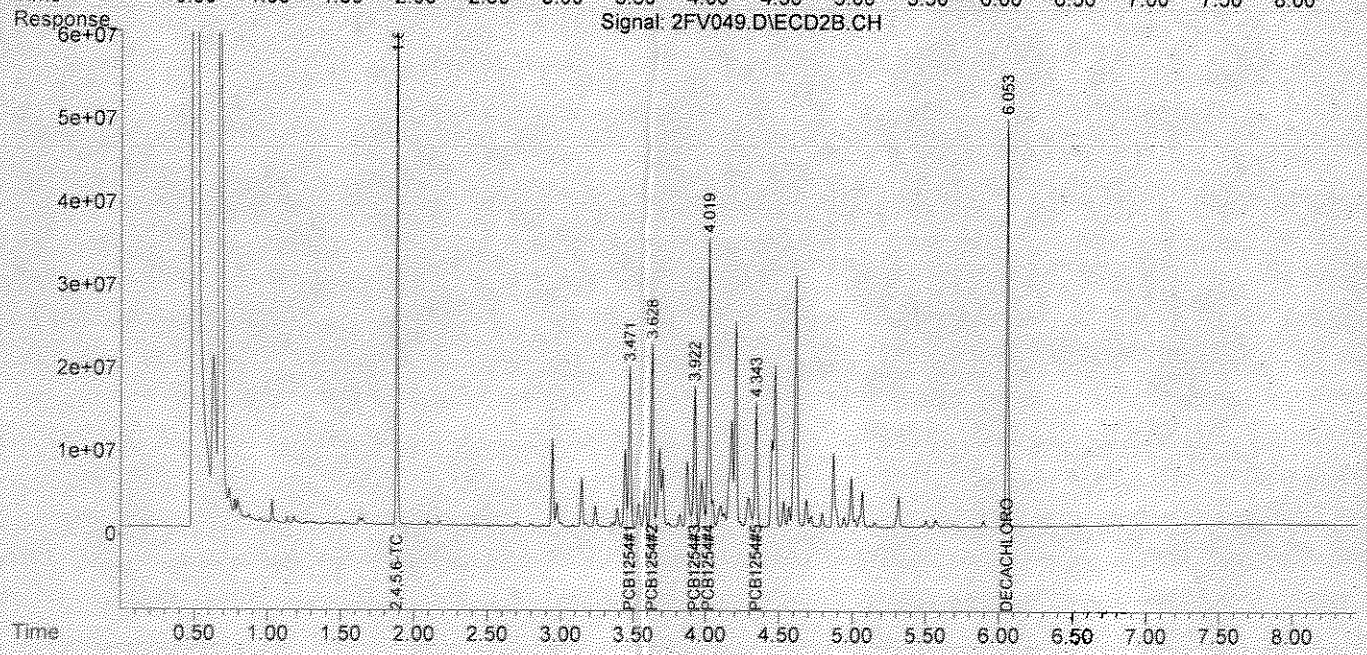
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 18:07
Operator : RC
Sample : AA24725-ARC4
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 12:04:33 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 13:59
Operator : RC
Sample : 3F24029-BLK1
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:38:21 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	611.4E6	515.7E6	0.0958	0.1015
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.000	6.054	393.1E6	397.7E6	0.1029	0.1064

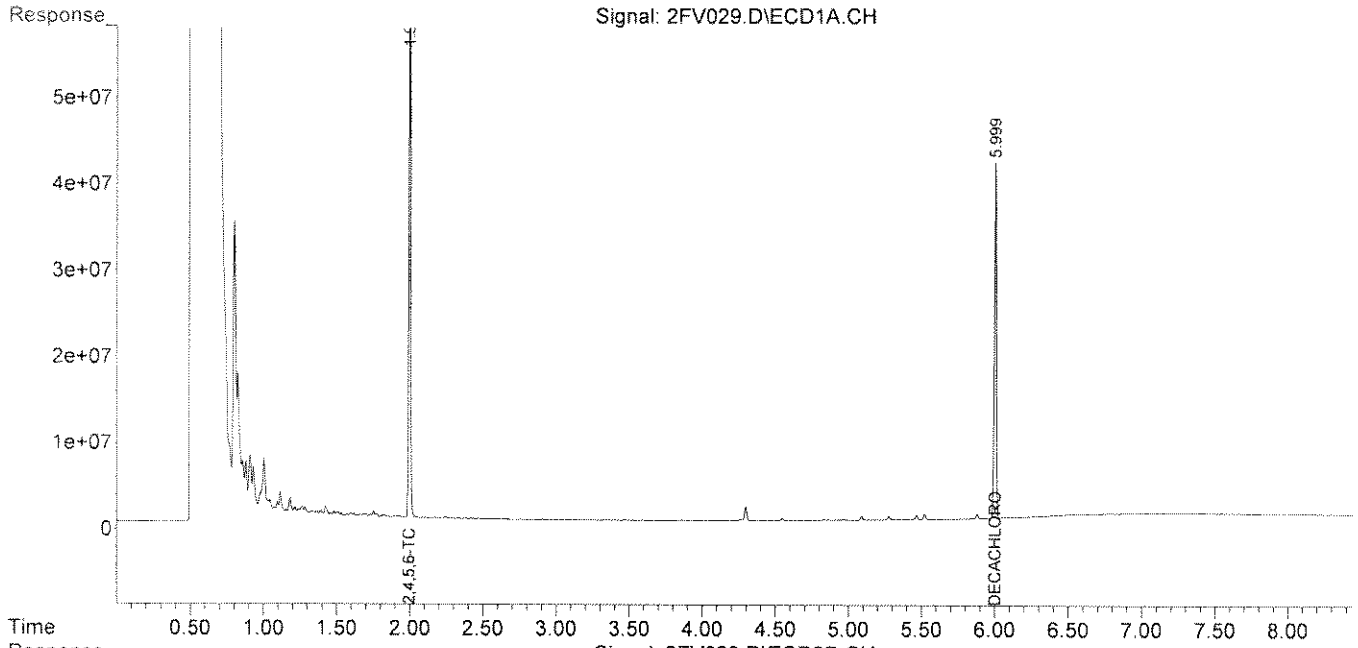
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

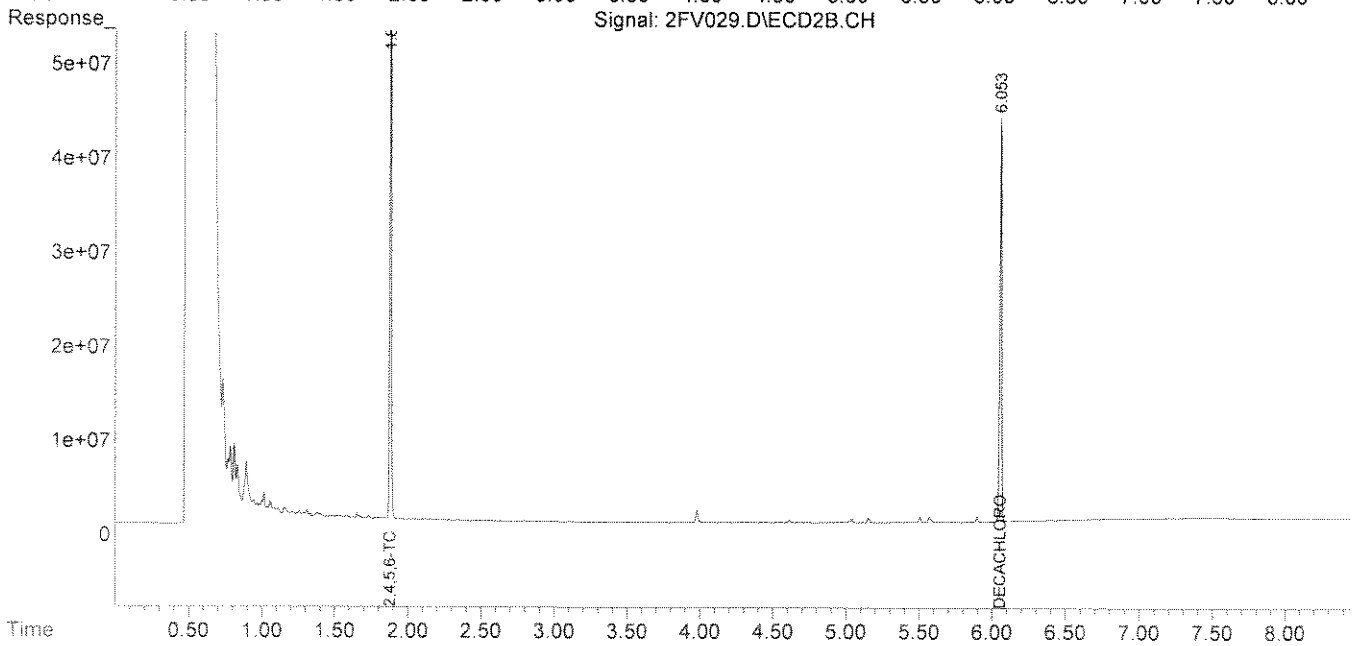
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 13:59
Operator : RC
Sample : 3F24029-BLK1
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:38:21 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:11
Operator : RC
Sample : 3F24029-BS1
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:19:15 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.996	1.877	621.3E6	523.8E6	0.0974	0.1031
2)	PCB1016#1	2.221	2.161	96212739	89244794	0.8121	0.8373
3)	PCB1016#2	2.450	2.407	209.7E6	181.9E6	0.9264	0.9125
4)	PCB1016#3	2.771	2.940	299.8E6	94667845	0.9937	1.0404
5)	PCB1016#4	2.865	2.971	193.1E6	102.5E6	0.9537	1.0420
6)	PCB1016#5	2.910	3.000	117.9E6	78011250	0.9487	0.8745
7)	PCB1260#6	4.171	4.176	310.8E6	286.3E6	1.0419	1.0078
8)	PCB1260#7	4.390	4.342	496.5E6	353.7E6	1.1371	1.1516
9)	PCB1260#8	4.688	4.679	249.0E6	231.2E6	0.9220	0.9566
10)	PCB1260#9	4.868	4.890	268.7E6	272.6E6	0.8988	1.0286
11)	PCB1260#10	5.087	5.066	605.1E6	577.2E6	0.9527	1.0715
12)	DECACHLOR...	6.000	6.054	394.3E6	418.8E6	0.1032	0.1117

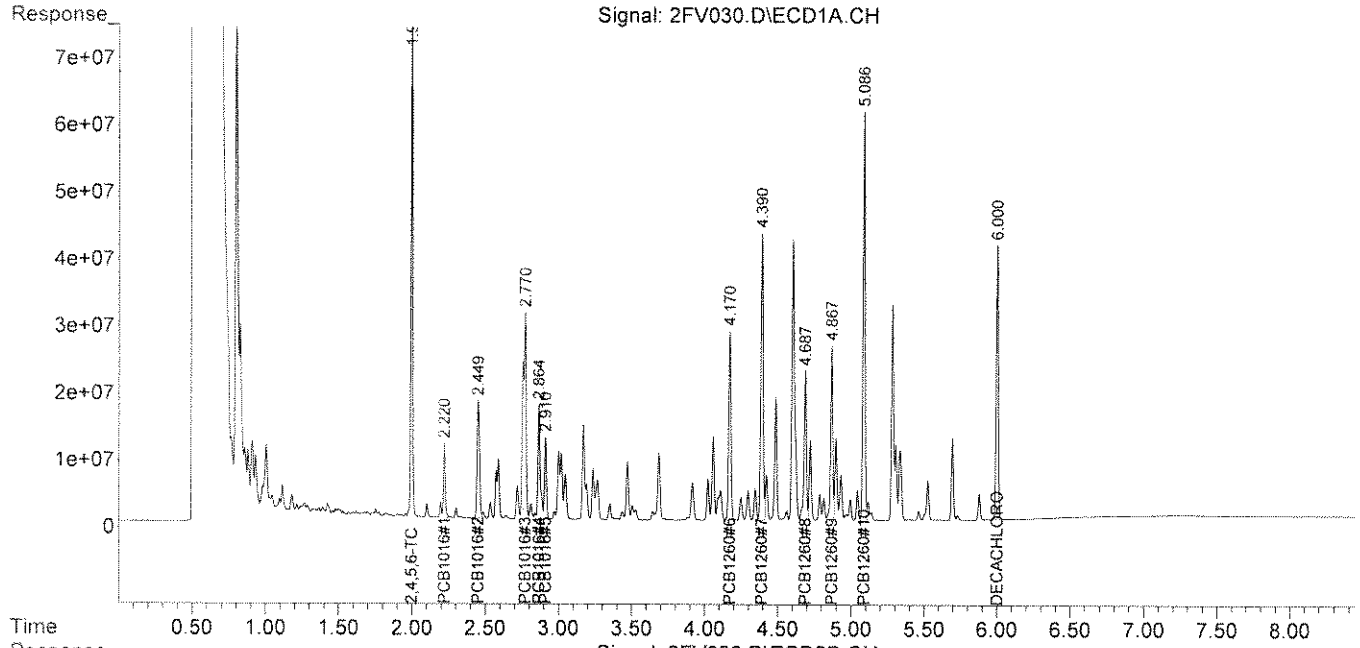
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

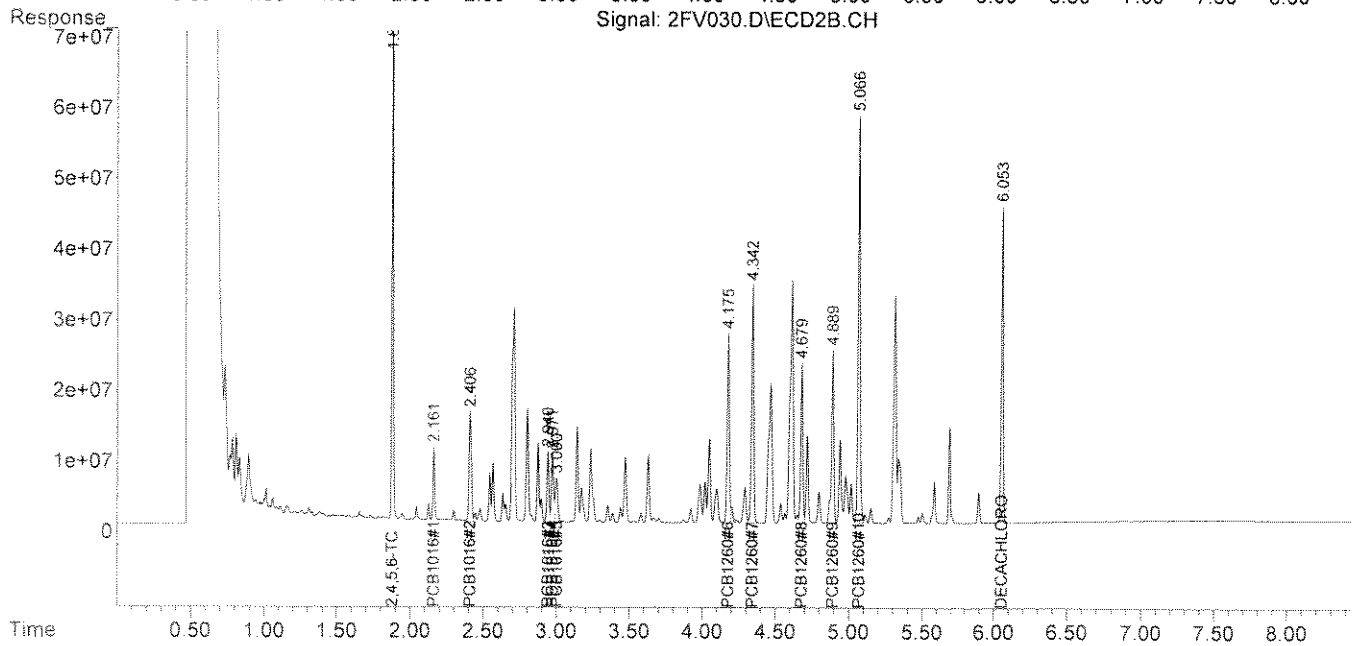
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:11
Operator : RC
Sample : 3F24029-BS1
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:19:15 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:23
Operator : RC
Sample : 3F24029-BSD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:19:18 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	657.4E6	556.4E6	0.1030	0.1095
2)	PCB1016#1	2.220	2.161	122.0E6	106.6E6	1.0296	1.0004
3)	PCB1016#2	2.450	2.407	227.8E6	199.2E6	1.0061	0.9994
4)	PCB1016#3	2.770	2.940	312.6E6	100.5E6	1.0337	1.1049
5)	PCB1016#4	2.864	2.972	202.8E6	106.5E6	1.0018	1.0828
6)	PCB1016#5	2.910	3.000	128.3E6	88671776	1.0268	0.9940
7)	PCB1260#6	4.170	4.176	316.2E6	311.2E6	1.0600	1.0955
8)	PCB1260#7	4.390	4.342	503.5E6	360.5E6	1.1529	1.1736
9)	PCB1260#8	4.687	4.679	253.4E6	234.0E6	0.9384	0.9682
10)	PCB1260#9	4.867	4.890	272.7E6	274.4E6	0.9113	1.0352
11)	PCB1260#10	5.086	5.066	616.9E6	563.8E6	0.9706	1.0466
12)	DECACHLOR...	5.999	6.053	423.8E6	432.1E6	0.1103	0.1151

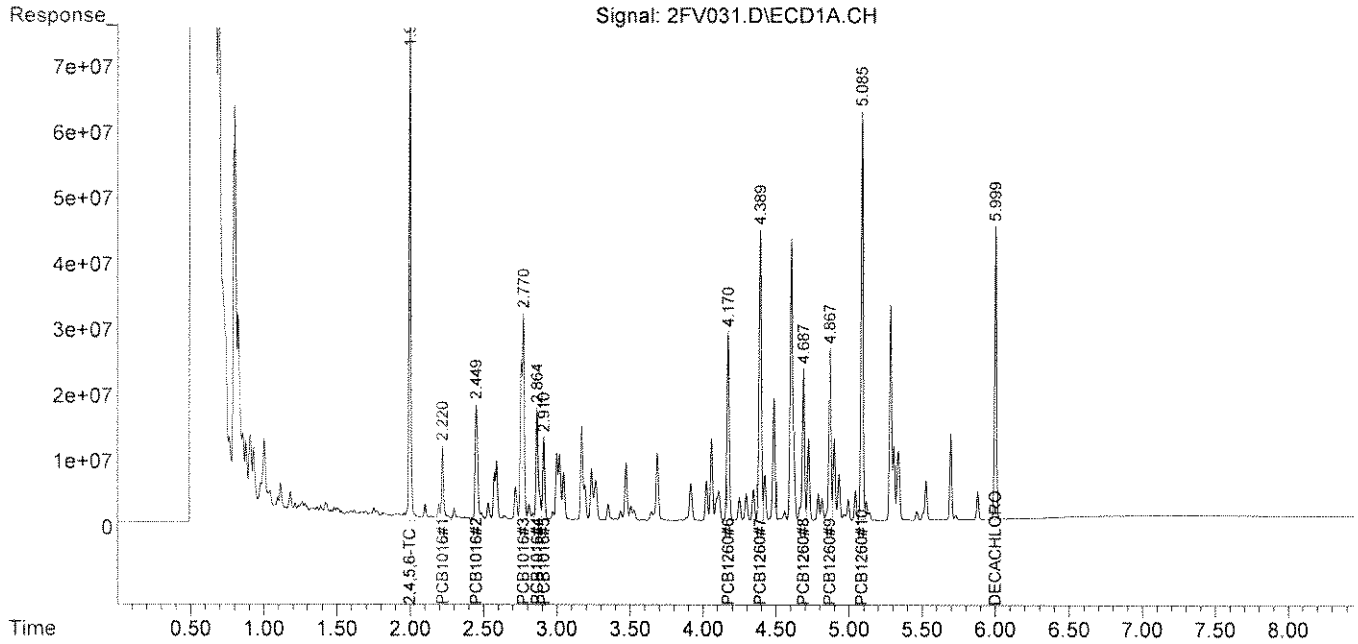
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

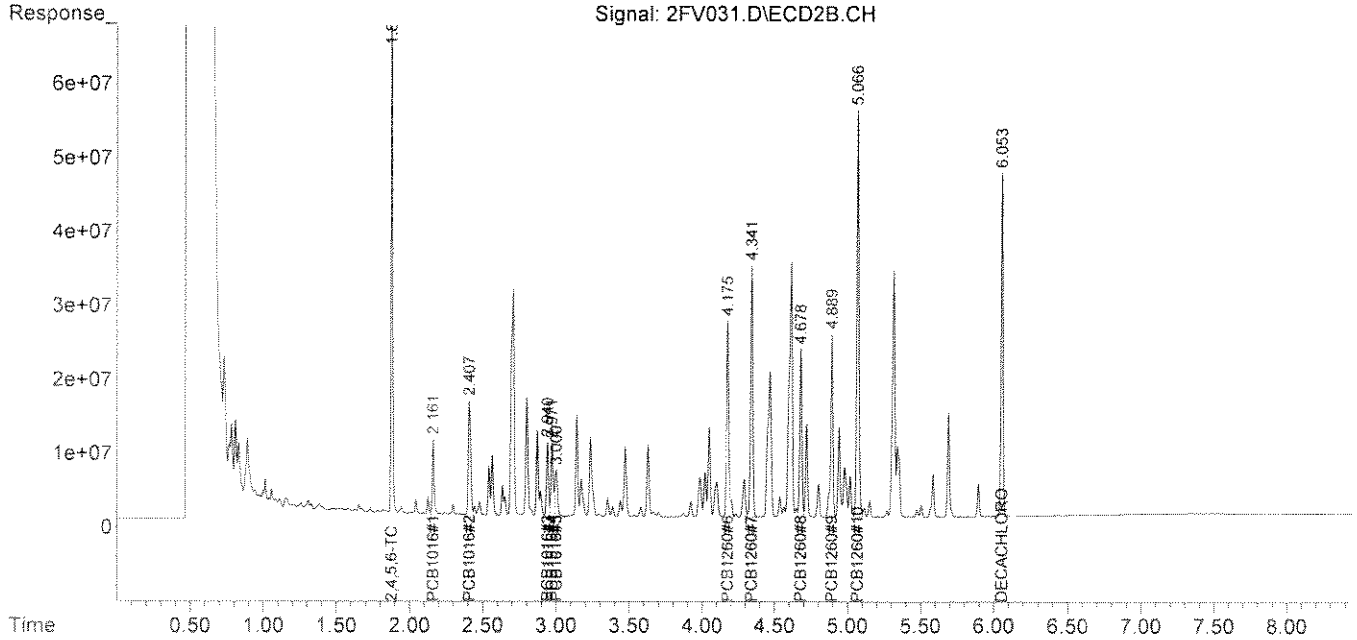
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:23
Operator : RC
Sample : 3F24029-BSD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 06:19:18 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:42
Operator : RC
Sample : A303499-06
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:39:21 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	2.000	1.877	370.8E6	328.2E6	0.0581	0.0646
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	4.177	4.176	111.9E6	106.5E6	0.3752	0.3748
8)	PCB1260#7	4.395	4.341	214.5E6	175.8E6	0.4911	0.5723
9)	PCB1260#8	4.692	4.678	89445316	85206048	0.3312	0.3525
10)	PCB1260#9	4.872	4.889	79977534	74775081	0.3095	0.2821
11)	PCB1260#10	5.091	5.066	178.0E6	182.2E6	0.3057	0.3383
12)	DECACHLOR...	6.003	6.053	263.9E6	269.6E6	0.0720	0.0742

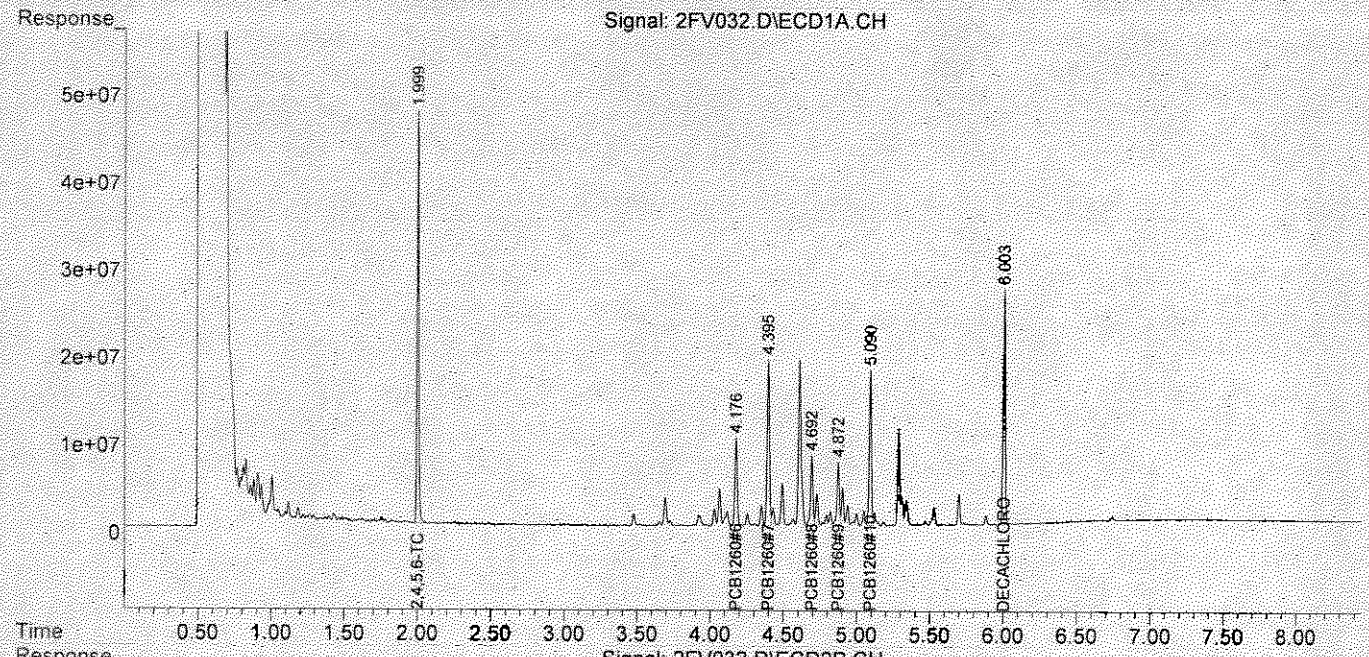
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

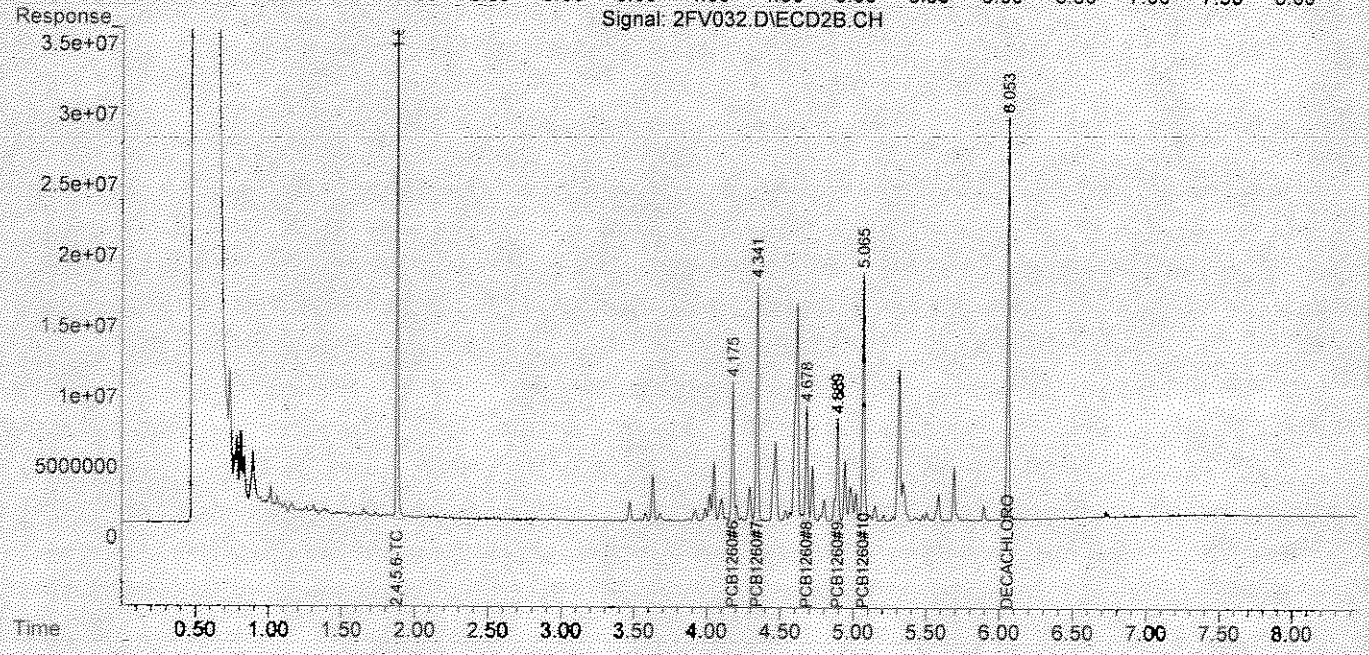
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:42
Operator : RC
Sample : A303499-06
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:39:21 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:42
Operator : RC
Sample : A303499-06
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:18 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.000	1.877	383.1E6	334.8E6	0.0668	0.0496	#
2)	PCB1254#1	3.477	3.469	15678312	16003441	0.0872	0.0624	#
3)	PCB1254#2	3.692	3.627	38677934	37612341	0.1223	0.1361	
4)	PCB1254#3	3.924	3.919	19532572	10979495	0.1026	0.0514	#
5)	PCB1254#4	4.028	4.018	21065580	20724954	0.0657	0.0569	
6)	PCB1254#5	4.254	4.341	16094076	176.0E6	0.0698	0.9806	#
7)	DECACHLOR...	6.003	6.053	264.9E6	270.1E6	0.0930	0.0781	

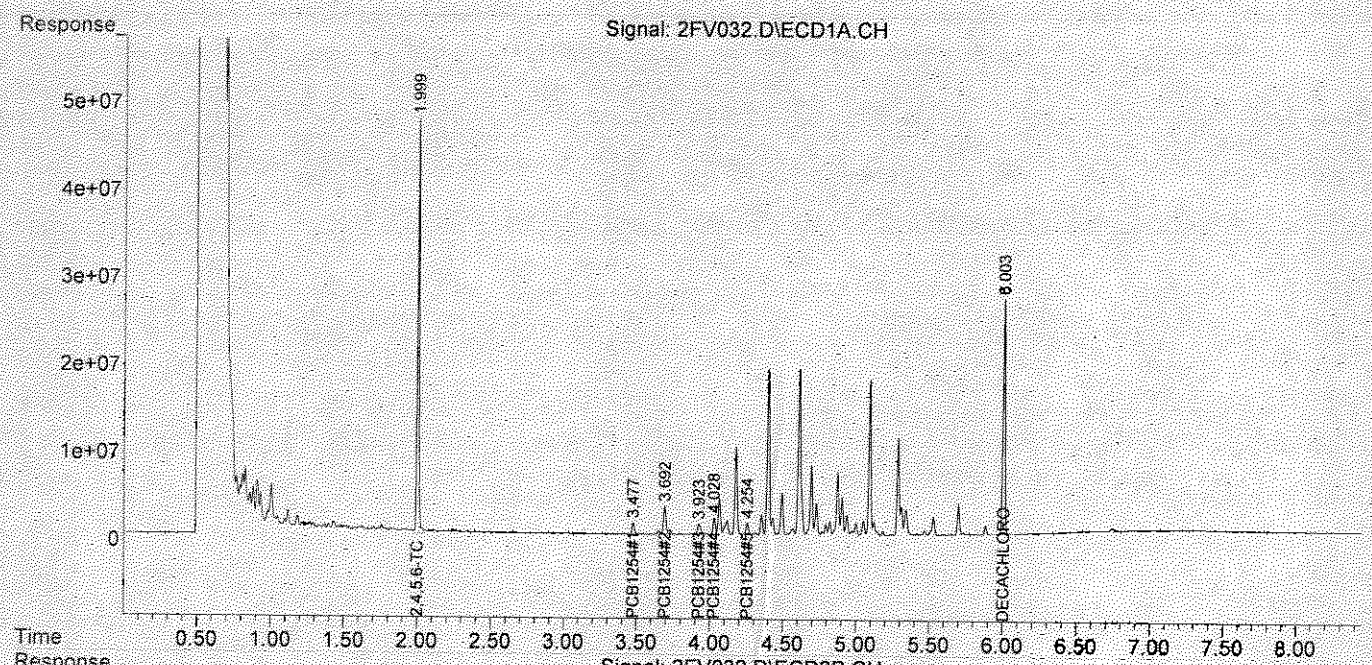
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

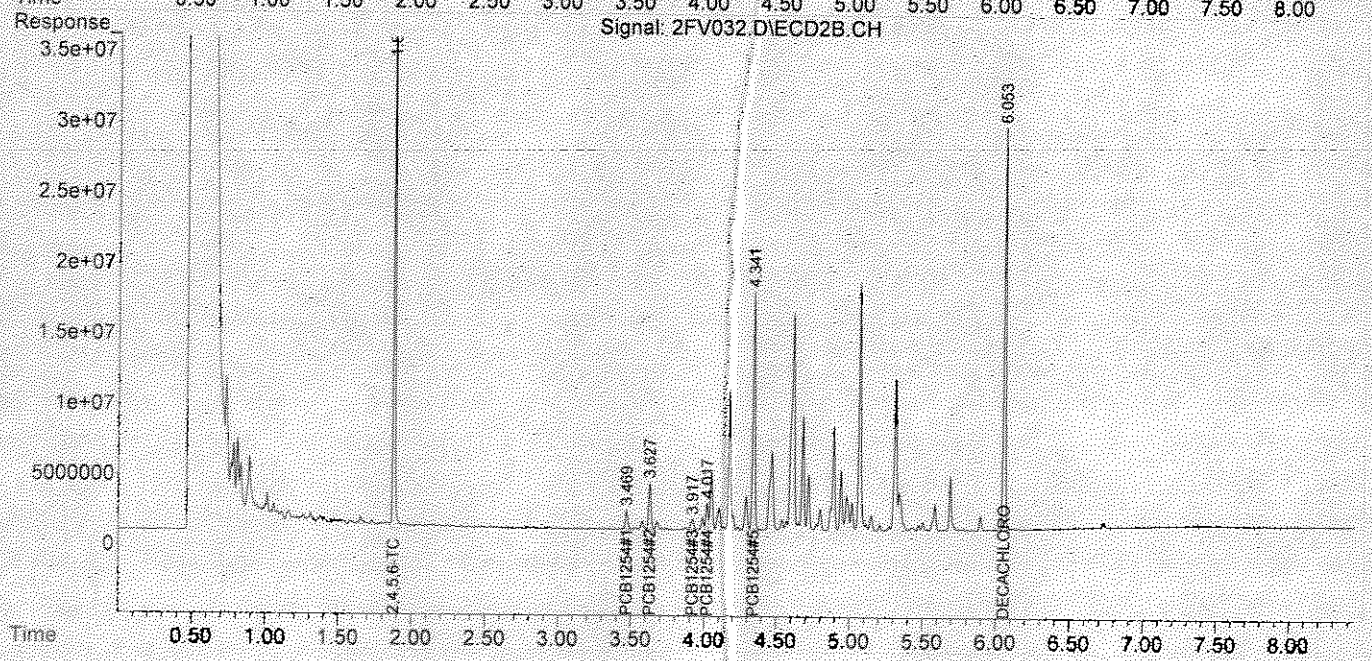
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:42
Operator : RC
Sample : A303499-06
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:18 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:54
Operator : RC
Sample : A303499-07
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:39:42 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.996	1.877	349.8E6	303.8E6	0.0548	0.0598
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.001	6.054	287.8E6	289.2E6	0.0777	0.0791

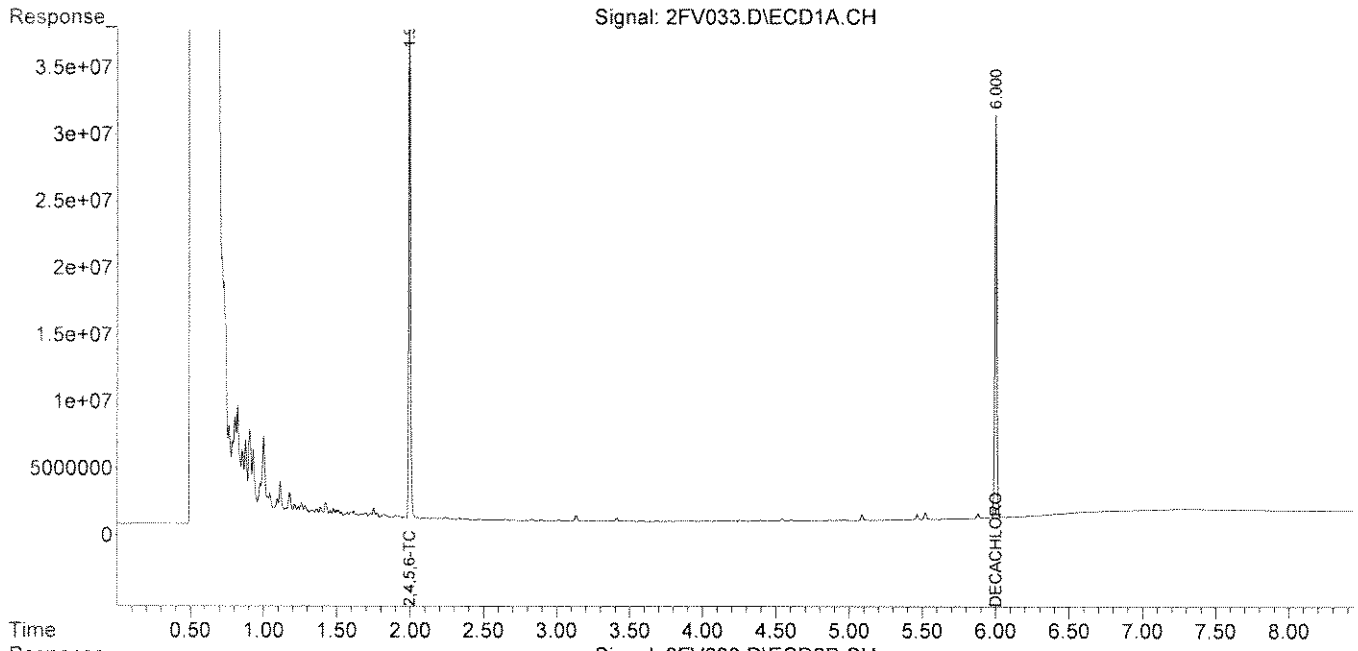
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

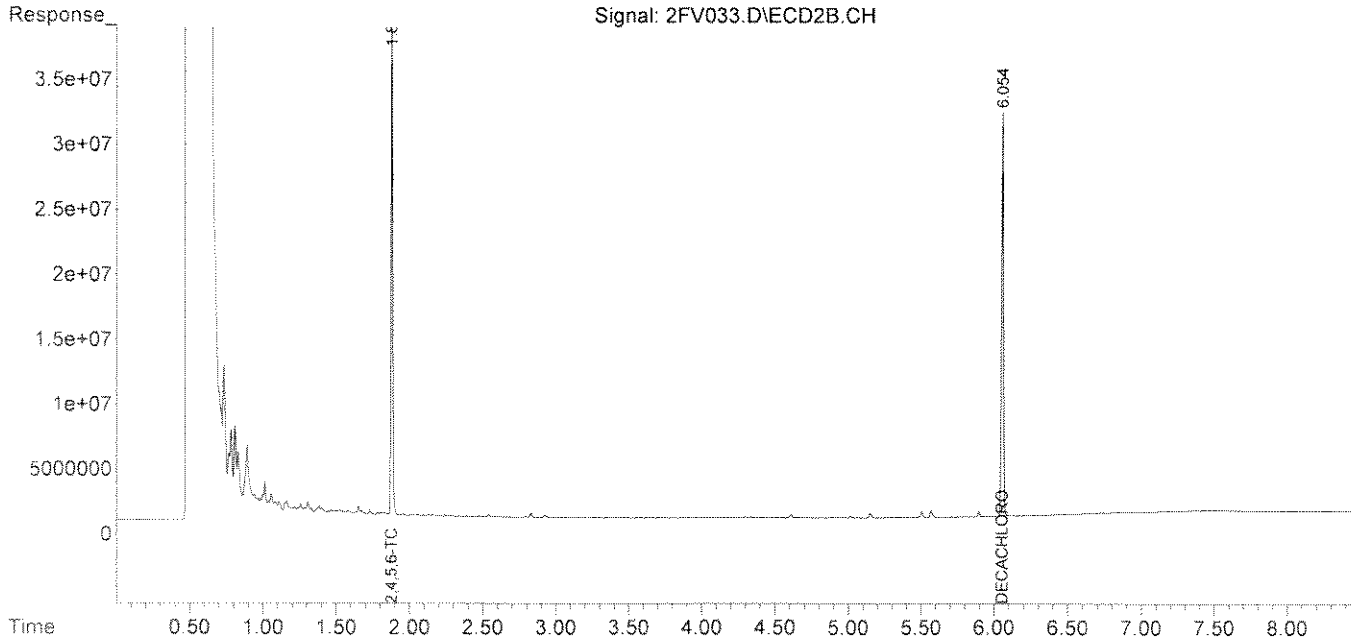
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 14:54
Operator : RC
Sample : A303499-07
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:39:42 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:06
Operator : RC
Sample : A303499-09
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:39:58 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.995	1.877	464.9E6	399.5E6	0.0729	0.0787	
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d	
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d	
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d	
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d	
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d	
7)	PCB1260#6	4.171	4.175	1865591	5151657	0.0063	0.0181	#
8)	PCB1260#7	4.389	4.342	24080531	22477563	0.0551	0.0732	#
9)	PCB1260#8	4.687	4.678	11515059	10839512	0.0426	0.0448	
10)	PCB1260#9	4.867	4.889	5021187	4748782	0.0755	0.0179	#
11)	PCB1260#10	5.087	5.065	17473472	18439796	0.0625	0.0342	#
12)	DECACHLOR...	6.000	6.053	284.7E6	285.4E6	0.0770	0.0781	

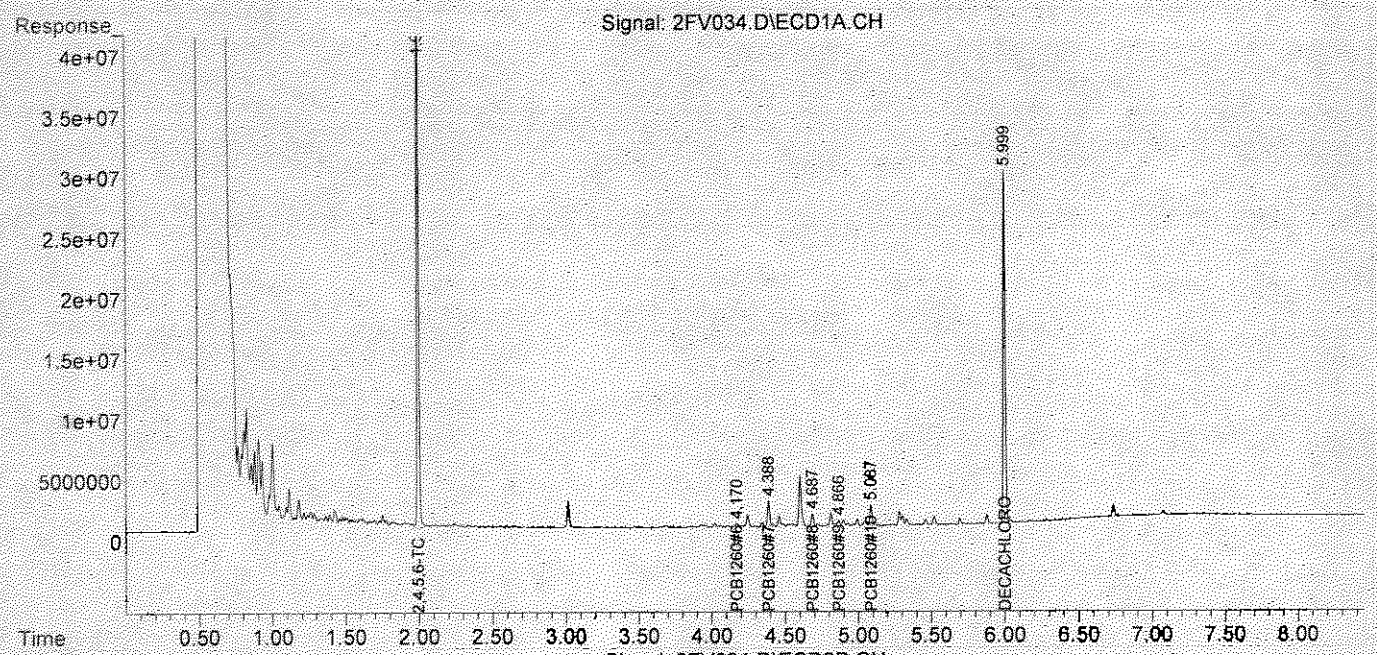
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

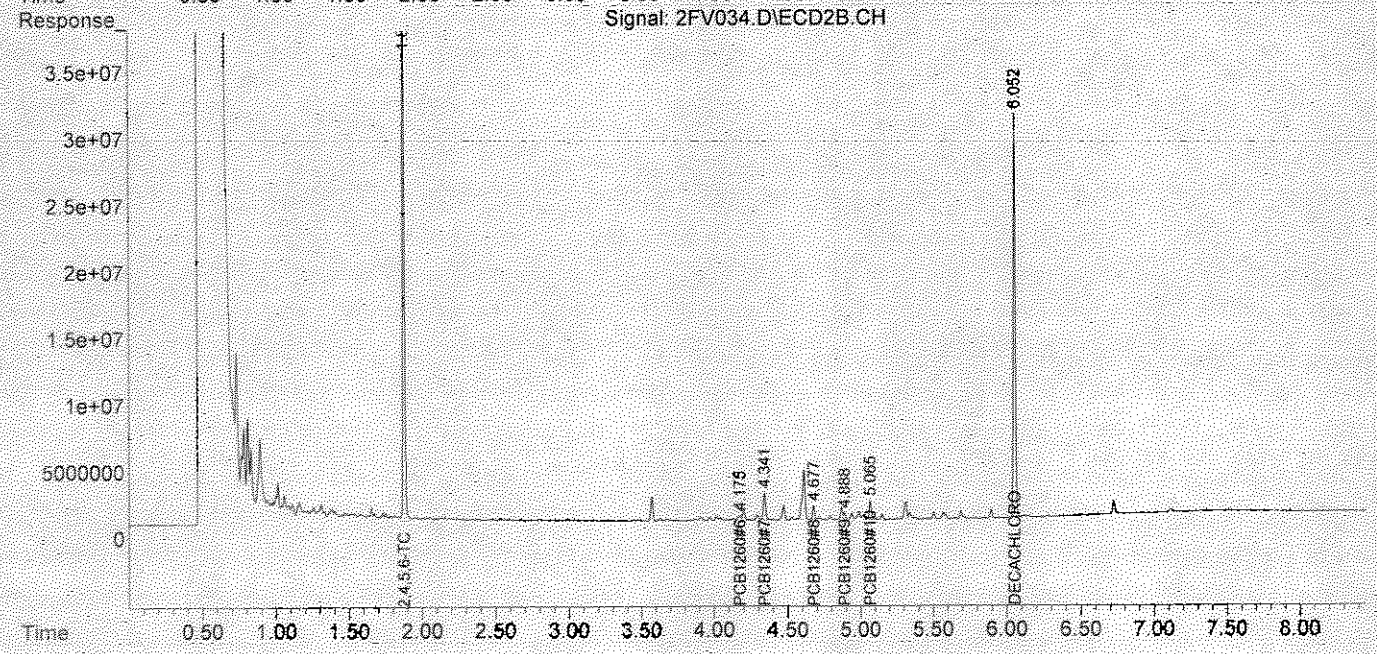
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:06
Operator : RC
Sample : A303499-09
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:39:58 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:06
Operator : RC
Sample : A303499-09
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:21 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.995	1.877	470.0E6	406.4E6	0.0819	0.0602	#
2)	PCB1254#1	3.472	3.473	762841	2347966	0.0042	0.0092	#
3)	PCB1254#2	3.684	3.629	2500643	2942397	0.0079	0.0107	#
4)	PCB1254#3	3.931	3.910	3529708	4338809	0.0185	0.0203	
5)	PCB1254#4	4.022	4.018	3815928	4451676	0.0119	0.0122	
6)	PCB1254#5	4.246	4.342	12042151	23033727	0.0522	0.1284	#
7)	DECACHLOR...	6.000	6.053	285.3E6	286.0E6	0.1002	0.0832	

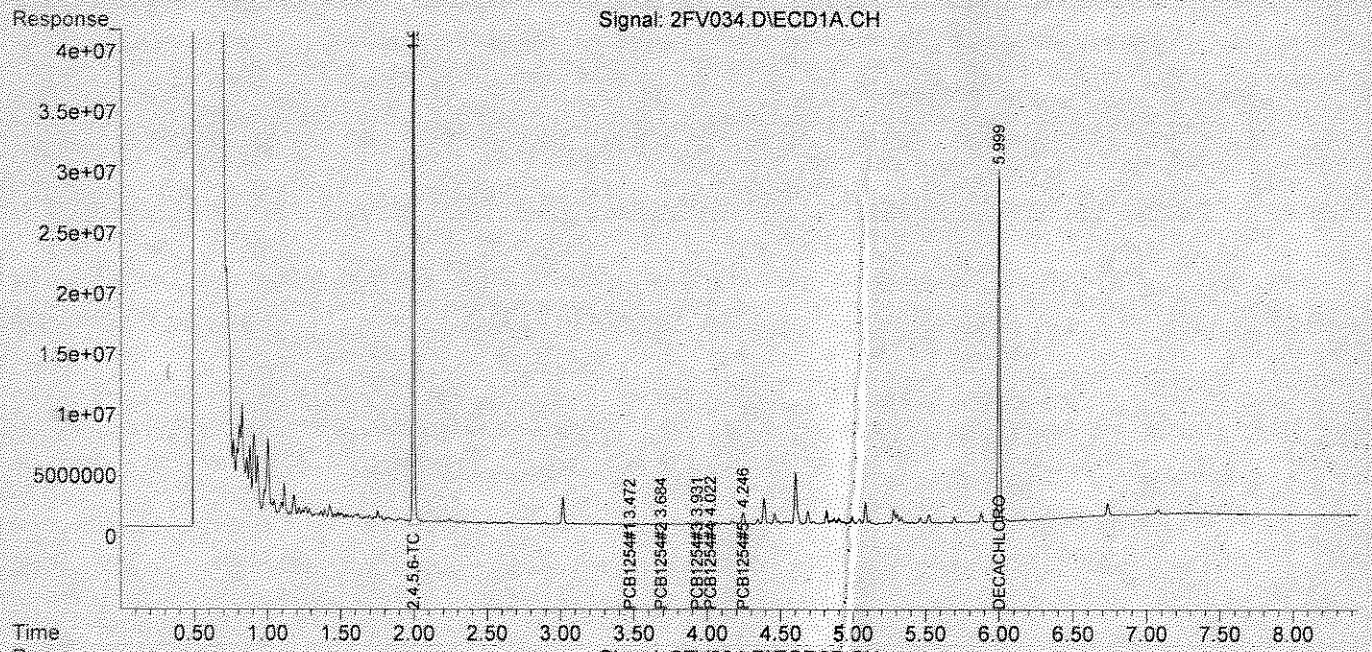
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

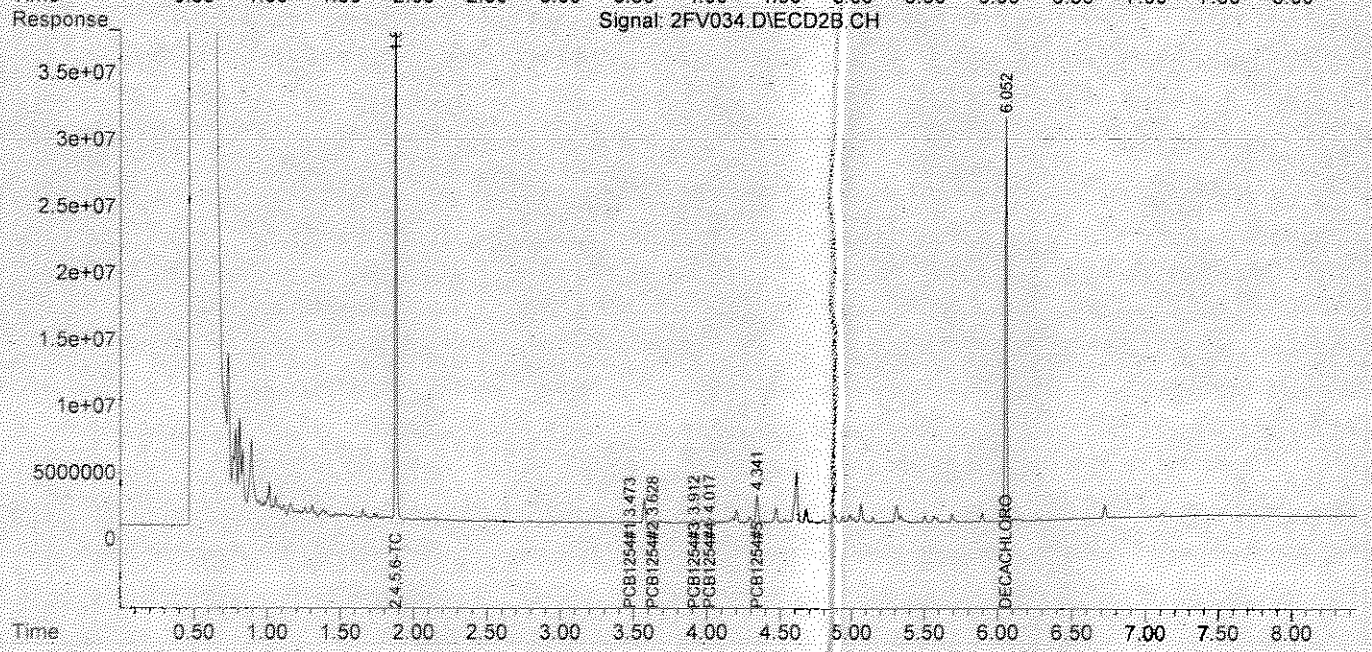
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:06
Operator : RC
Sample : A303499-09
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:46:21 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:18
Operator : RC
Sample : A303499-10
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:40:30 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	316.6E6	275.4E6	0.0496	0.0542
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.000	6.054	276.9E6	281.2E6	0.0751	0.0771

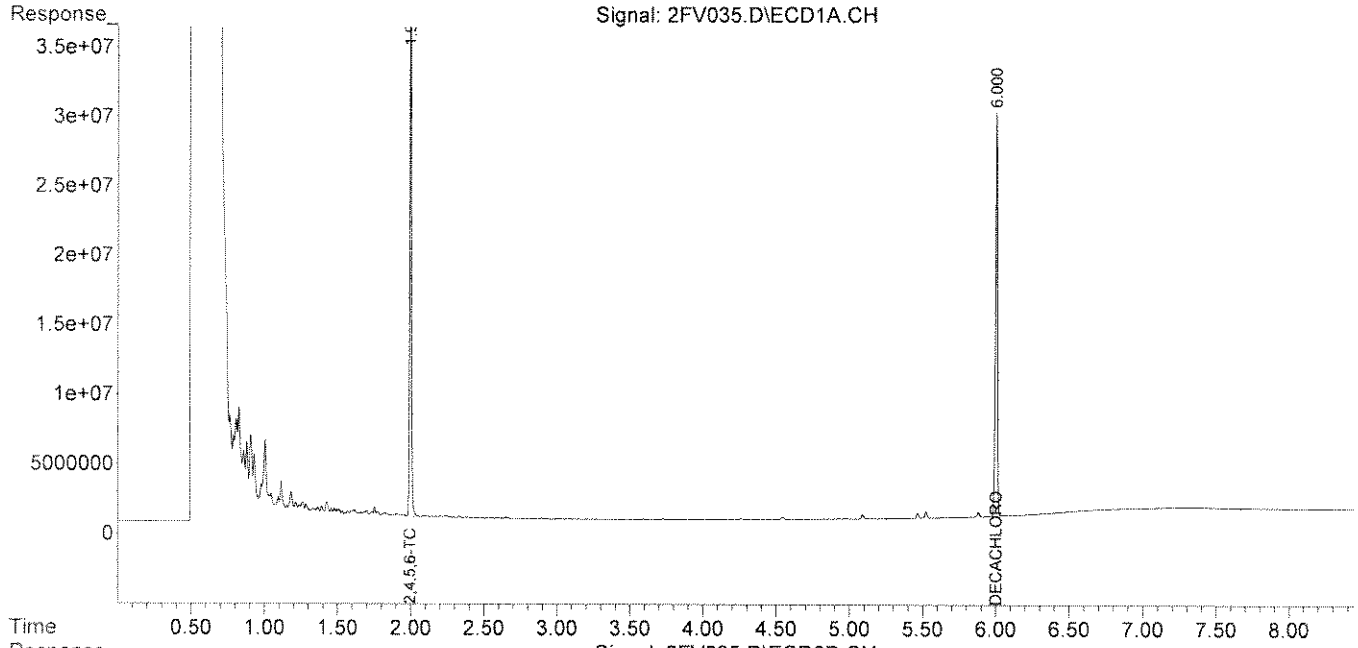
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

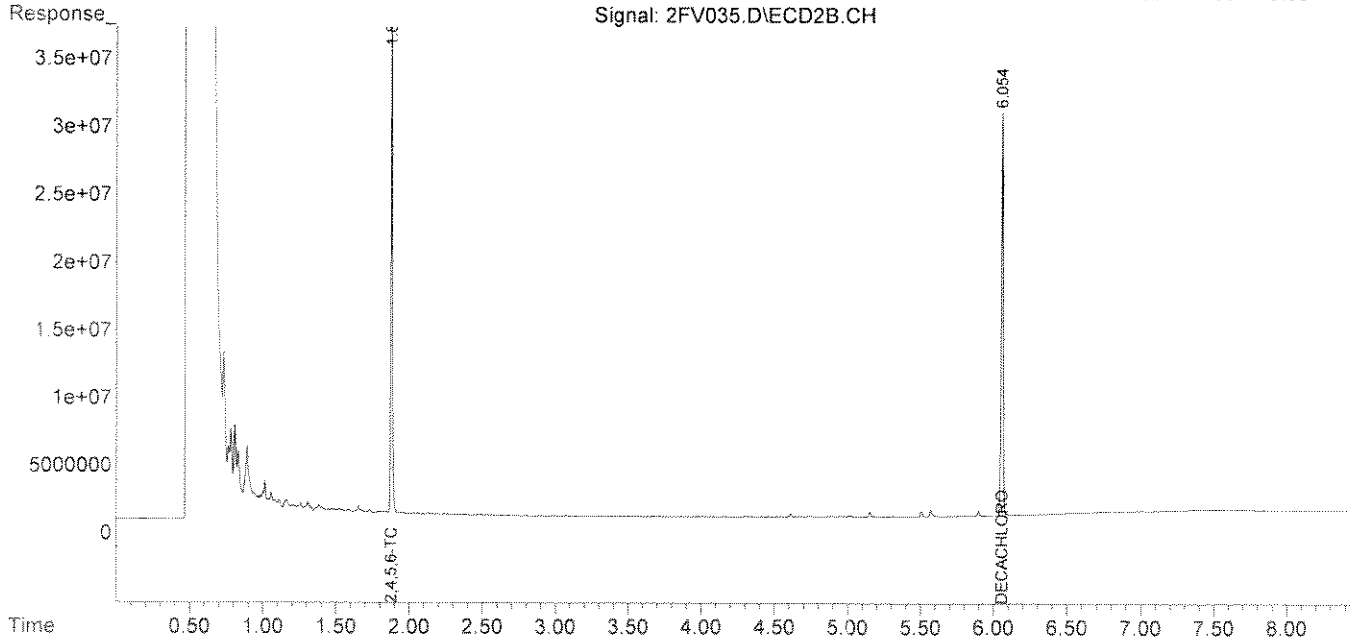
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:18
Operator : RC
Sample : A303499-10
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:40:30 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:30
Operator : RC
Sample : A303499-11
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:40:43 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	499.5E6	424.3E6	0.0783	0.0835
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	4.171	4.176	1772143	2832531	0.0059	0.0100 #
8)	PCB1260#7	4.389	4.342	11622091	10134403	0.0266	0.0330
9)	PCB1260#8	4.687	4.678	5136319	4669368	0.0190	0.0193
10)	PCB1260#9	4.867	4.890	3664821	2544250	0.0713	0.0096 #
11)	PCB1260#10	5.087	5.066	8053214	8199749	0.0482	0.0152 #
12)	DECACHLOR...	6.000	6.054	247.2E6	238.7E6	0.0680	0.0664

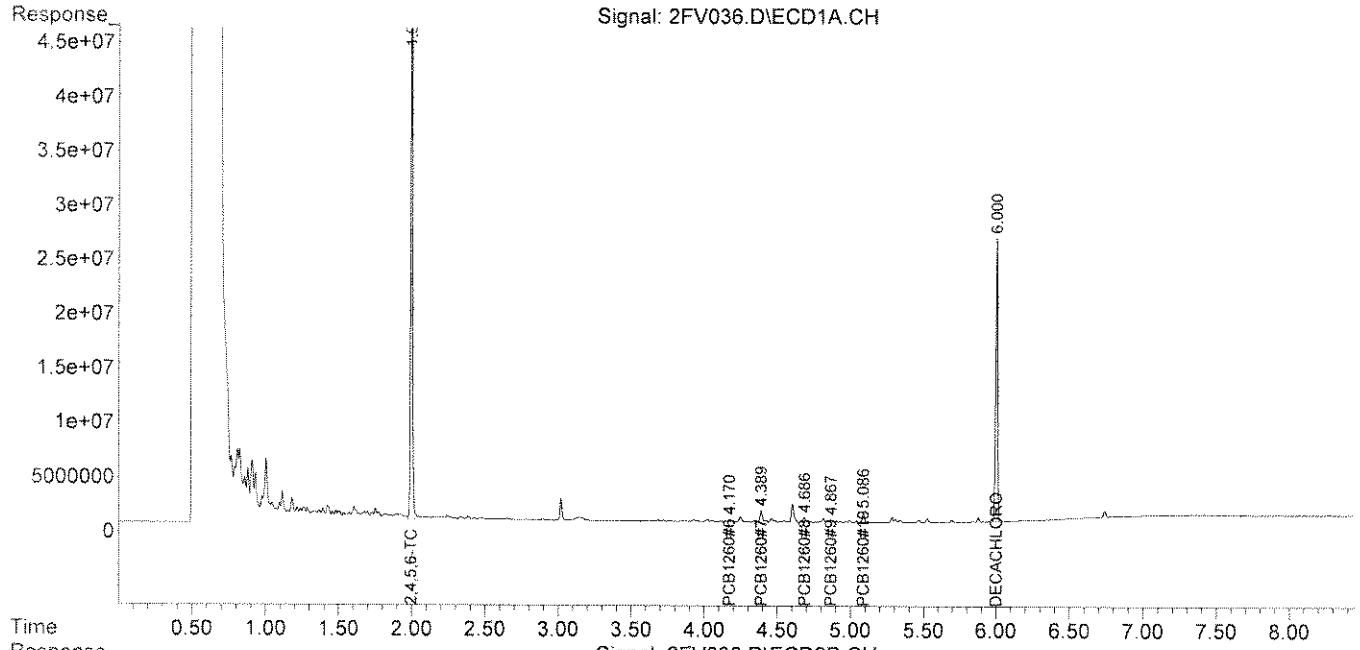
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

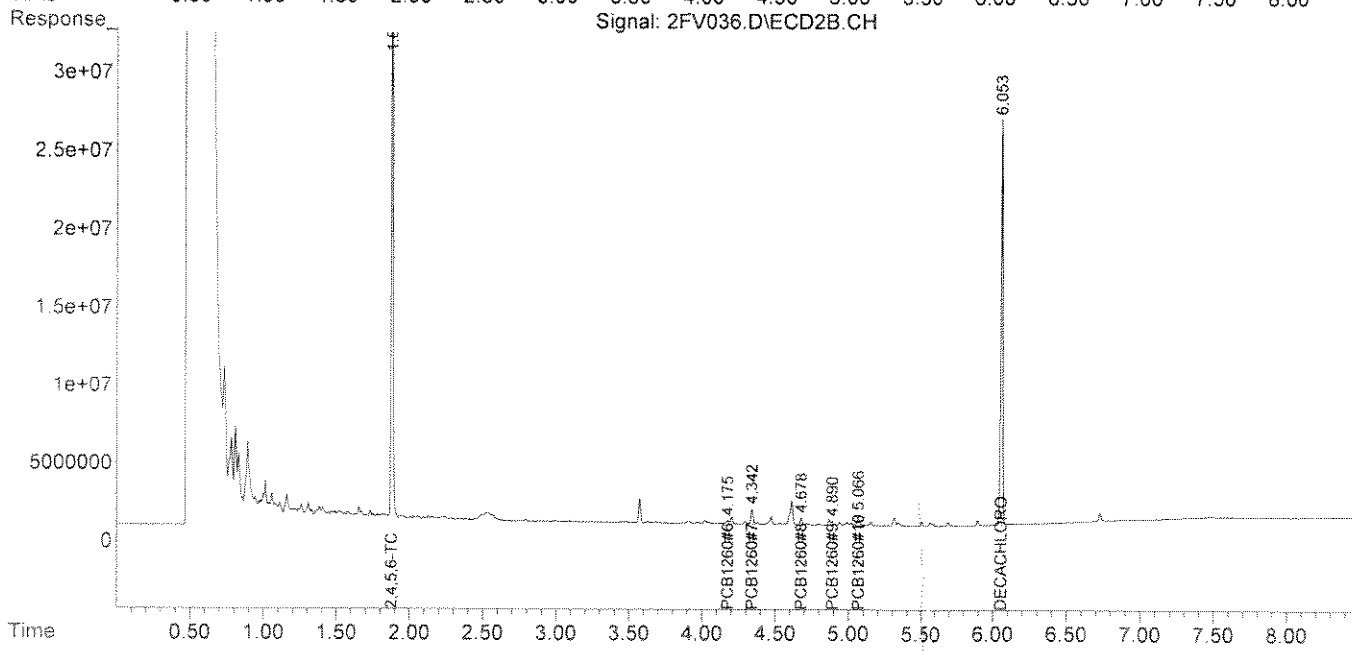
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 15:30
Operator : RC
Sample : A303499-11
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:40:43 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:06
Operator : RC
Sample : A303499-12
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:56:13 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	392.7E6	330.2E6	0.0616	0.0650
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.000	6.054	299.4E6	301.0E6	0.0805	0.0821

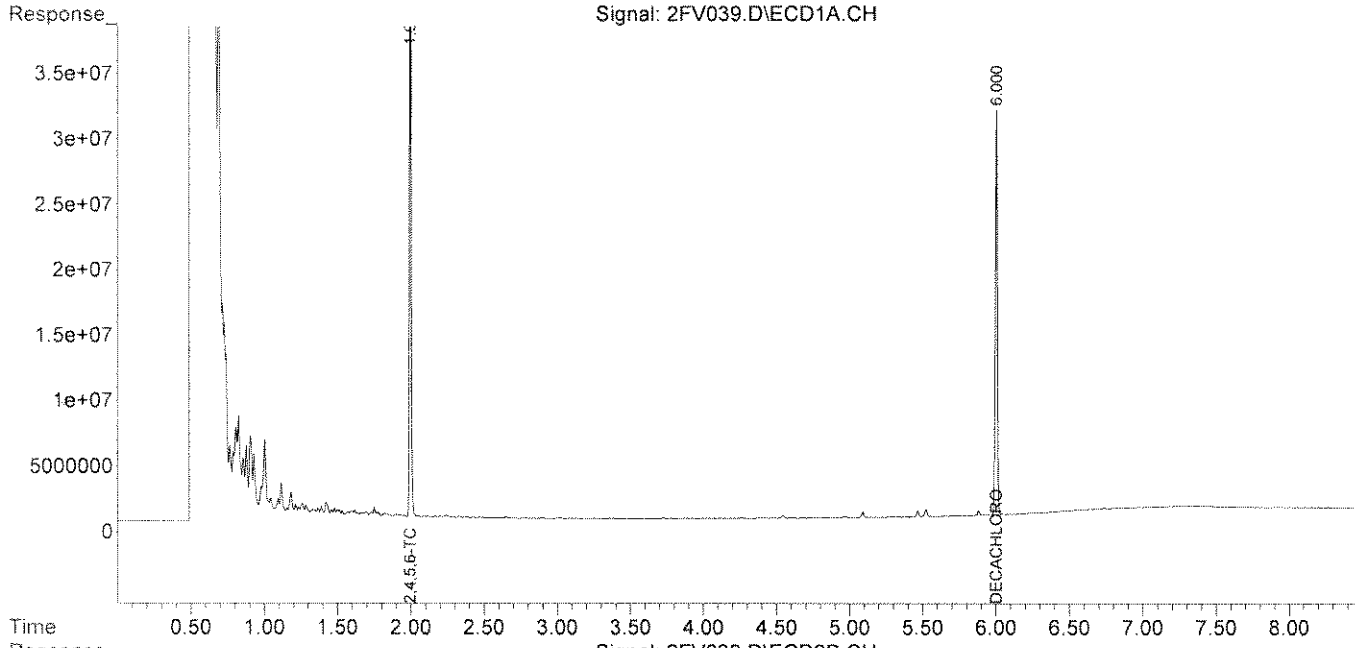
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

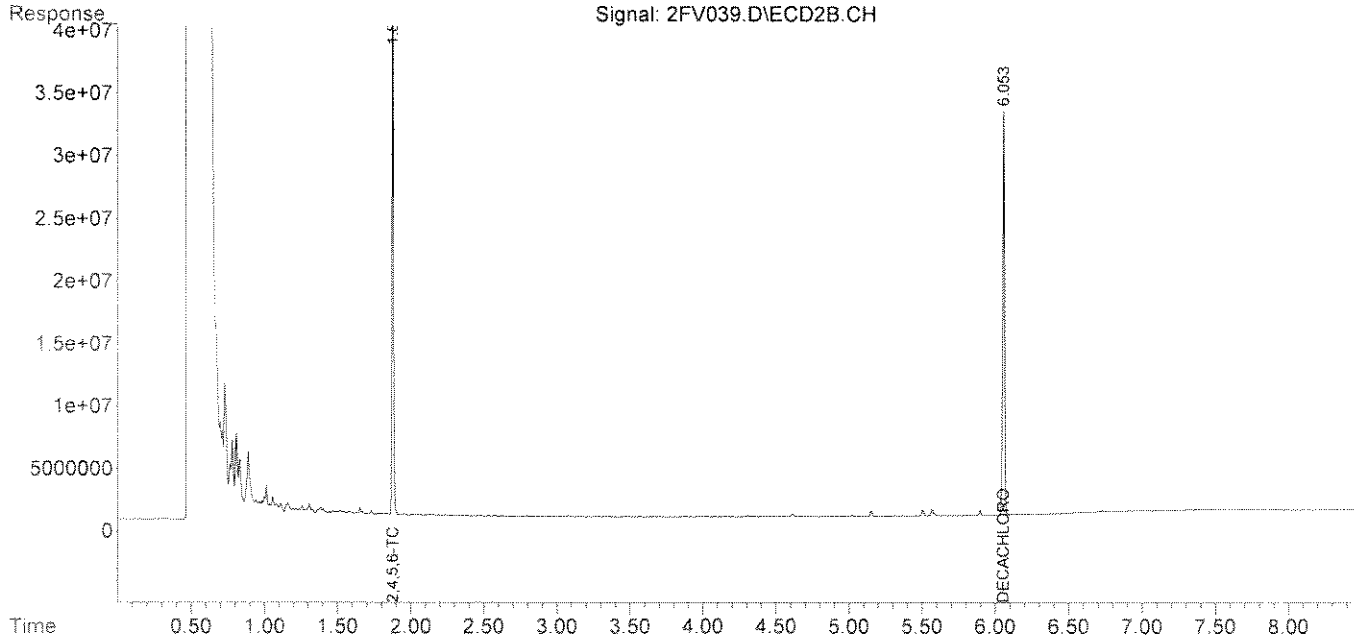
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:06
Operator : RC
Sample : A303499-12
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:56:13 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:19
Operator : RC
Sample : A303499-14
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:56:46 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	410.7E6	327.5E6	0.0644	0.0645
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	4.171	4.176	230.4E6	203.9E6	0.7722	0.7180
8)	PCB1260#7	4.390	4.343	388.7E6	253.9E6	0.8902	0.8268
9)	PCB1260#8	4.687	4.679	317.3E6	284.3E6	1.1749	1.1763
10)	PCB1260#9	4.867	4.889	324.4E6	311.2E6	1.0727	1.1742
11)	PCB1260#10	5.086	5.066	784.4E6	709.6E6	1.2244	1.3173
12)	DECACHLOR...	6.000	6.054	307.4E6	306.2E6	0.0824	0.0834

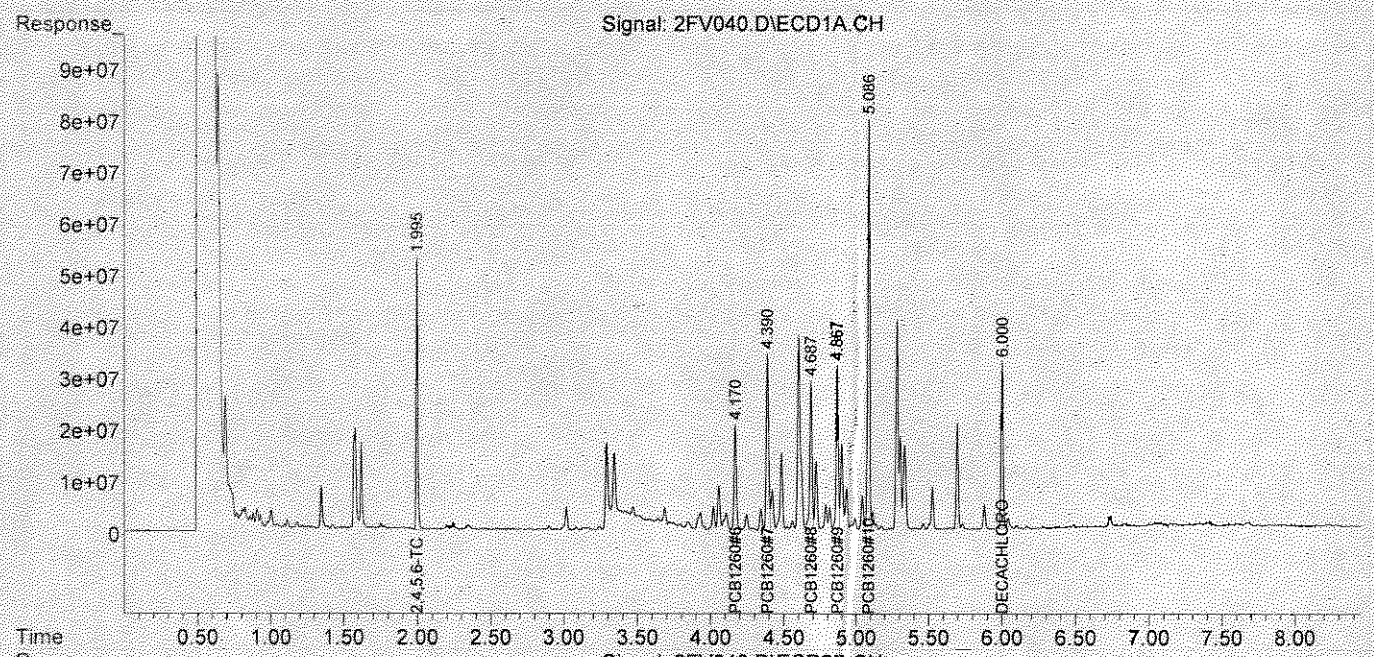
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

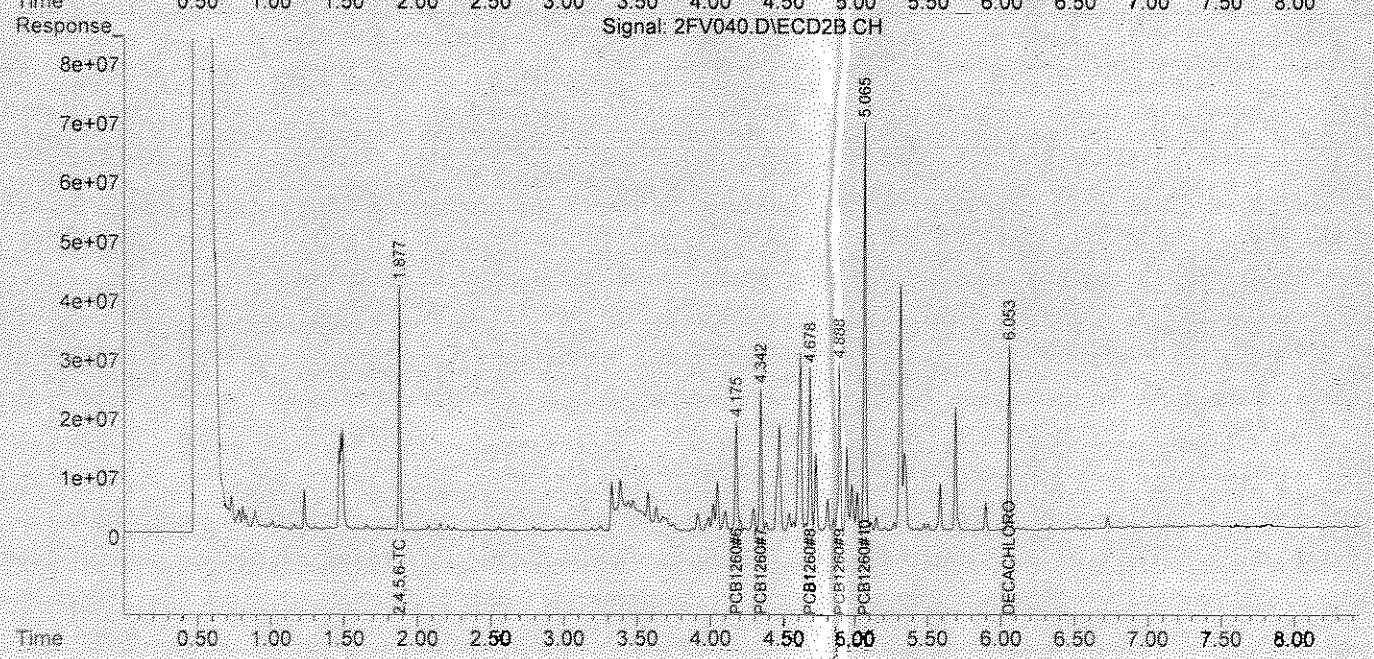
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:19
Operator : RC
Sample : A303499-14
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:56:46 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:31
Operator : RC
Sample : A303499-15
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:57:07 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	317.9E6	275.7E6	0.0498	0.0543
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.001	6.054	267.5E6	271.1E6	0.0729	0.0745

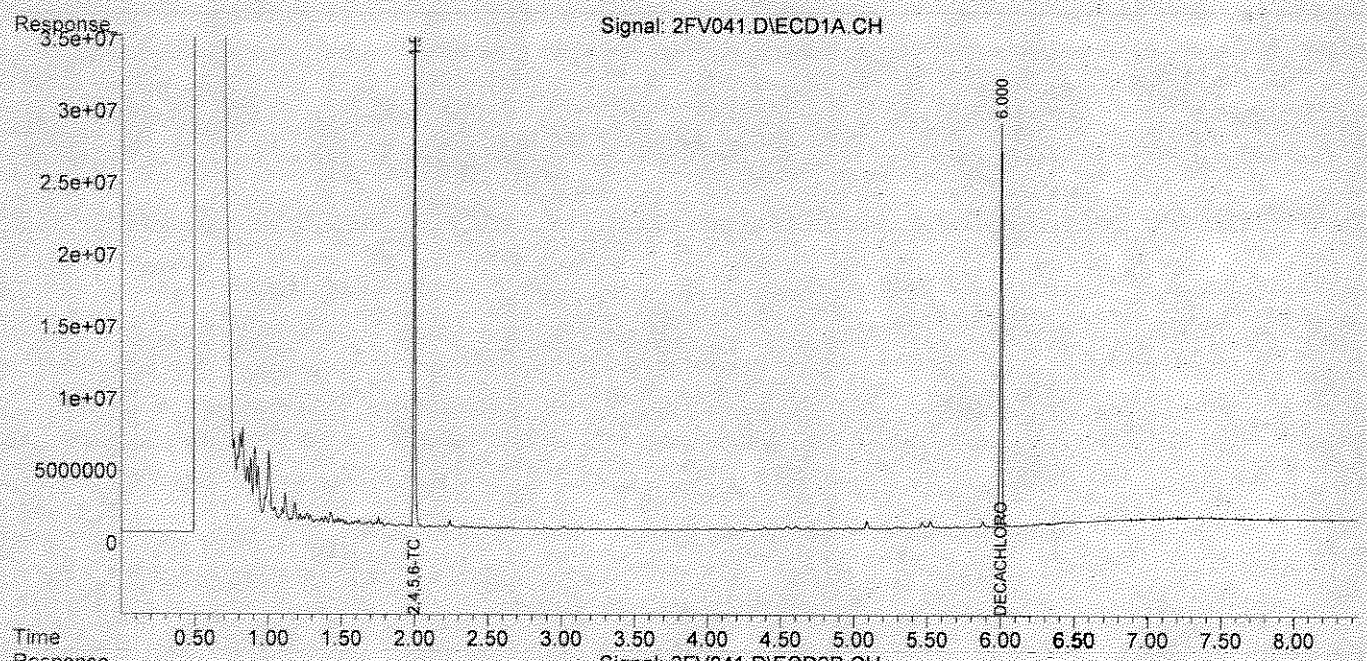
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

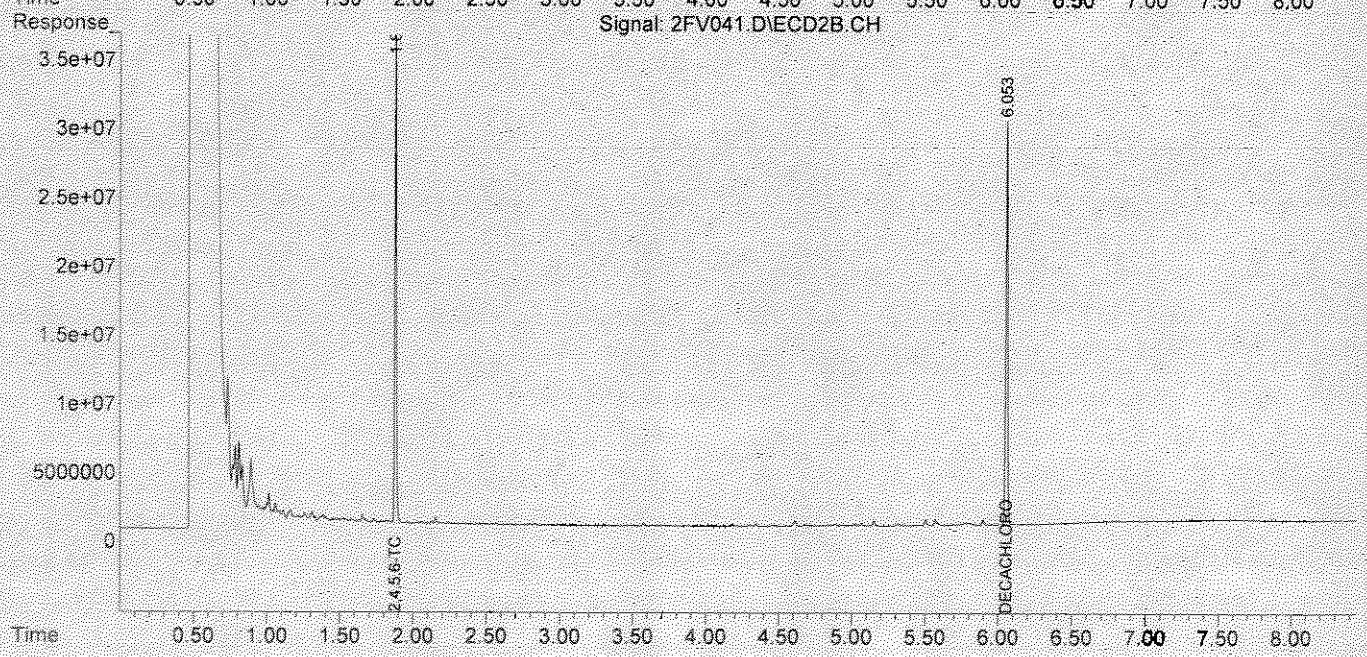
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:31
Operator : RC
Sample : A303499-15
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:57:07 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:43
Operator : RC
Sample : A303499-17
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:57:36 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.995	1.877	254.9E6	210.7E6	0.0400	0.0415	
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d	
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d	
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d	
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d	
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d	
7)	PCB1260#6	4.171	4.176	17654692	21016603	0.0592	0.0740	#
8)	PCB1260#7	4.391	4.343	31747613	23745431	0.0727	0.0773	
9)	PCB1260#8	4.688	4.679	17238698	17637027	0.0638	0.0730	
10)	PCB1260#9	4.867	4.890	15944220	14296052	0.1096	0.0539	#
11)	PCB1260#10	5.086	5.066	29480767	33093642	0.0806	0.0614	
12)	DECACHLOR...	6.001	6.054	168.6E6	169.9E6	0.0492	0.0490	

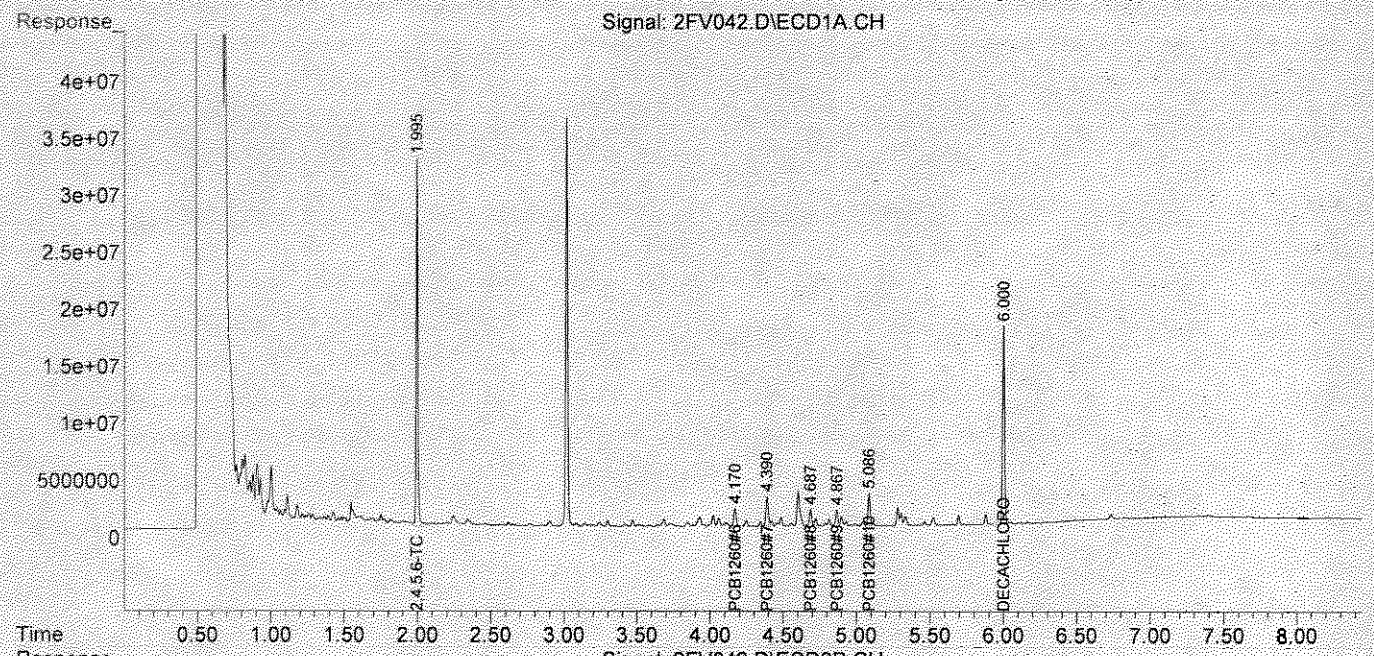
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

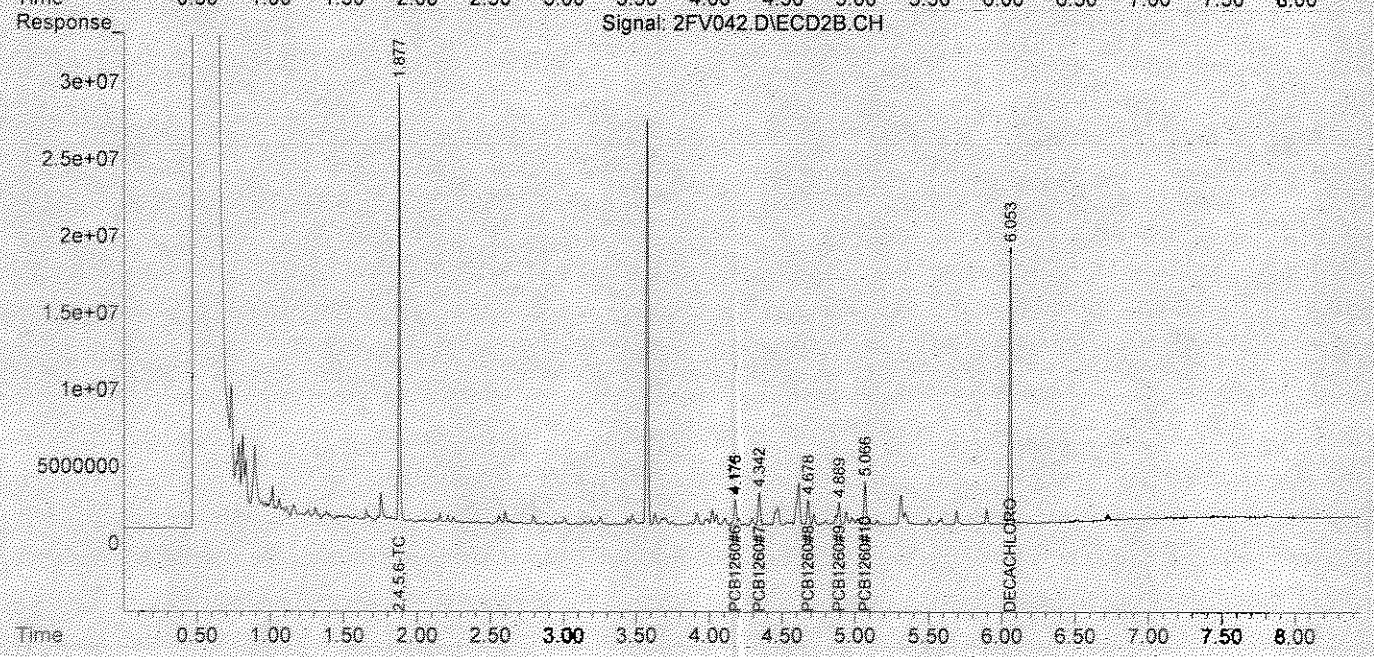
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:43
Operator : RC
Sample : A303499-17
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:57:36 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:43
Operator : RC
Sample : A303499-17
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 12:04:27 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.995	1.877	260.7E6	229.6E6	0.0454	0.0340	#
2)	PCB1254#1	3.471	3.471	7520530	11760432	0.0418	0.0459	
3)	PCB1254#2	3.686	3.627	10015271	10324563	0.0317	0.0374	
4)	PCB1254#3	3.931	3.912	14560199	11894952	0.0765	0.0556	#
5)	PCB1254#4	4.022	4.018	14048933	11690628	0.0438	0.0321	#
6)	PCB1254#5	4.248	4.343	6848776	23923251	0.0297	0.1333	#
7)	DECACHLOR...	6.001	6.054	169.5E6	170.4E6	0.0595	0.0458	

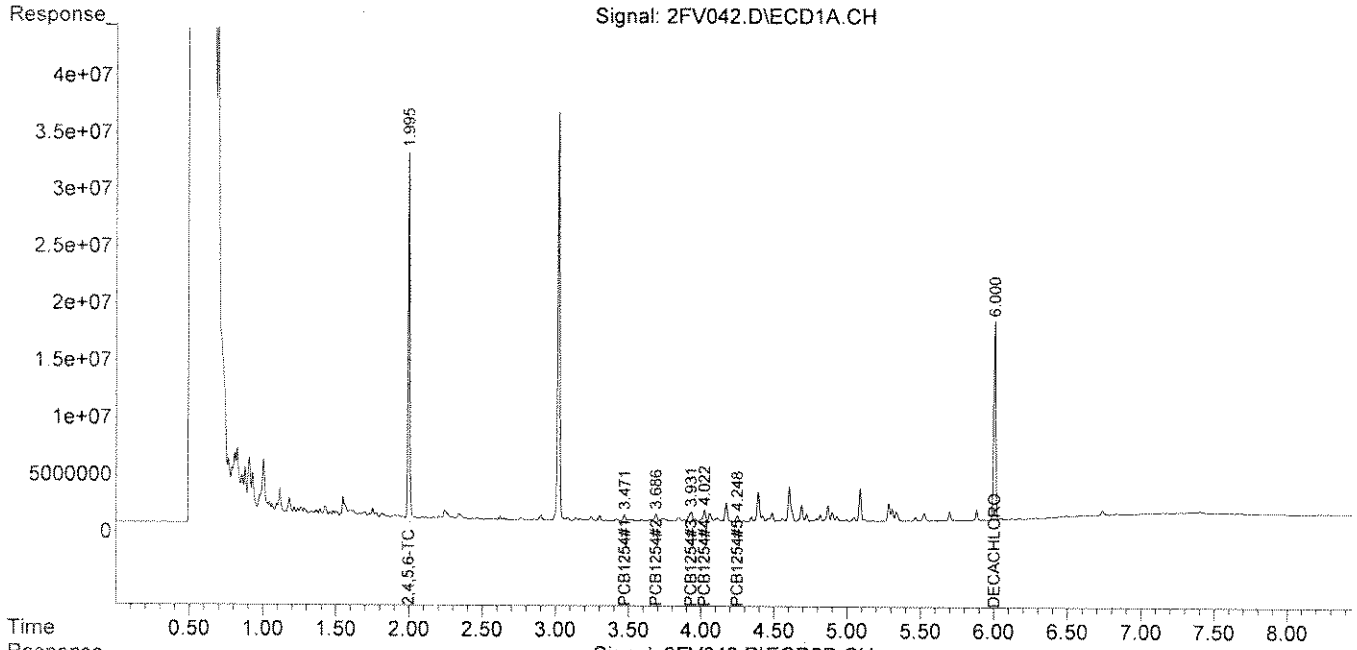
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

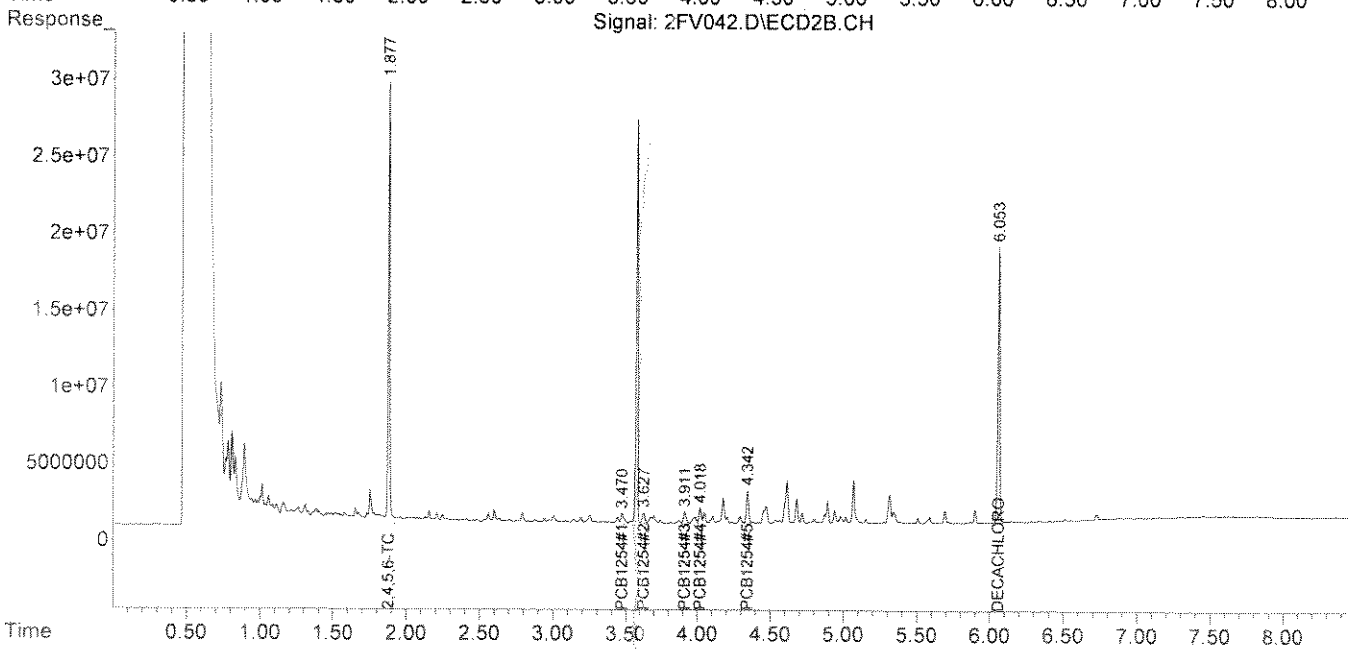
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:43
Operator : RC
Sample : A303499-17
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 12:04:27 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:55
Operator : RC
Sample : A303499-18
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:57:58 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	190.2E6	163.6E6	0.0298	0.0322
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.000	6.054	218.7E6	221.1E6	0.0612	0.0619

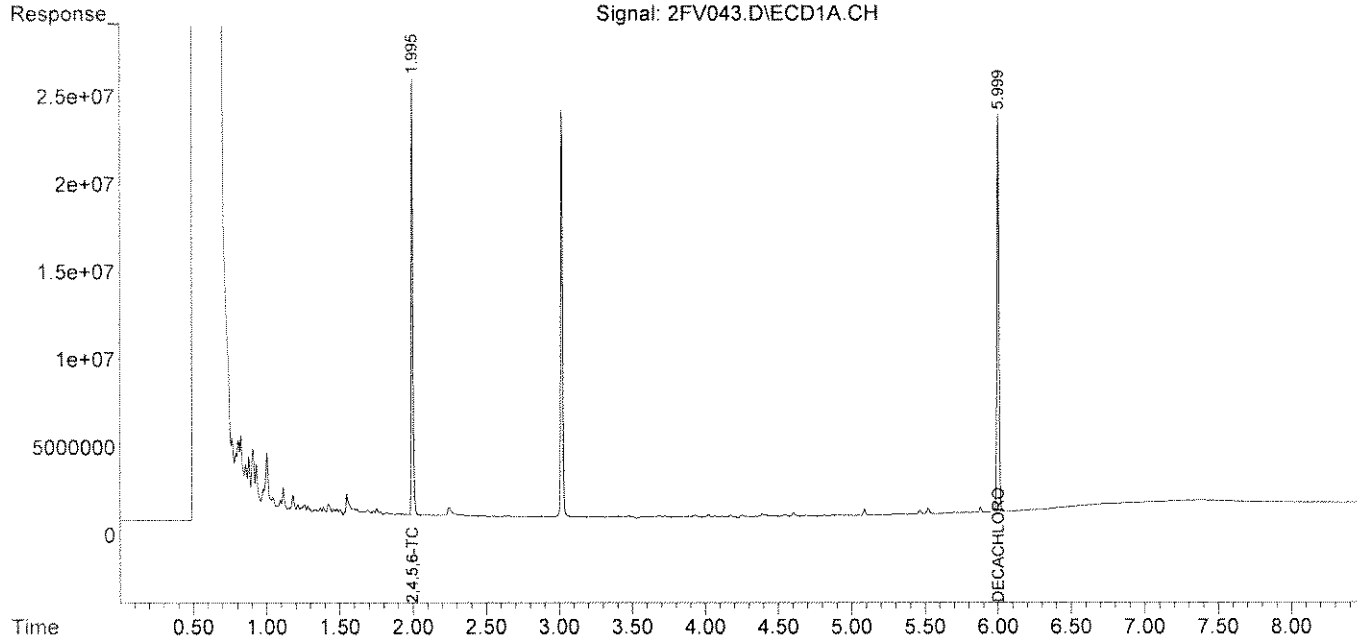
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

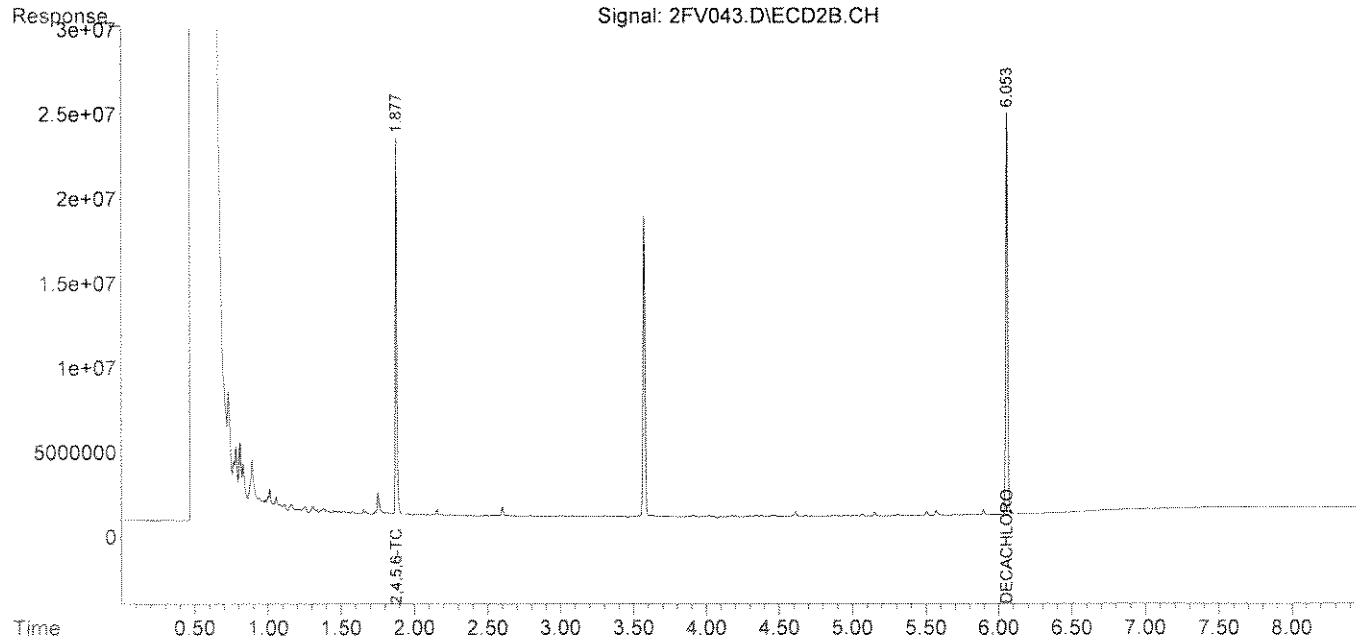
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 16:55
Operator : RC
Sample : A303499-18
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:57:58 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:07
Operator : RC
Sample : A303499-19
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:58:14 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.995	1.877	250.2E6	215.6E6	0.0392	0.0424
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.000	6.054	229.5E6	232.8E6	0.0638	0.0649

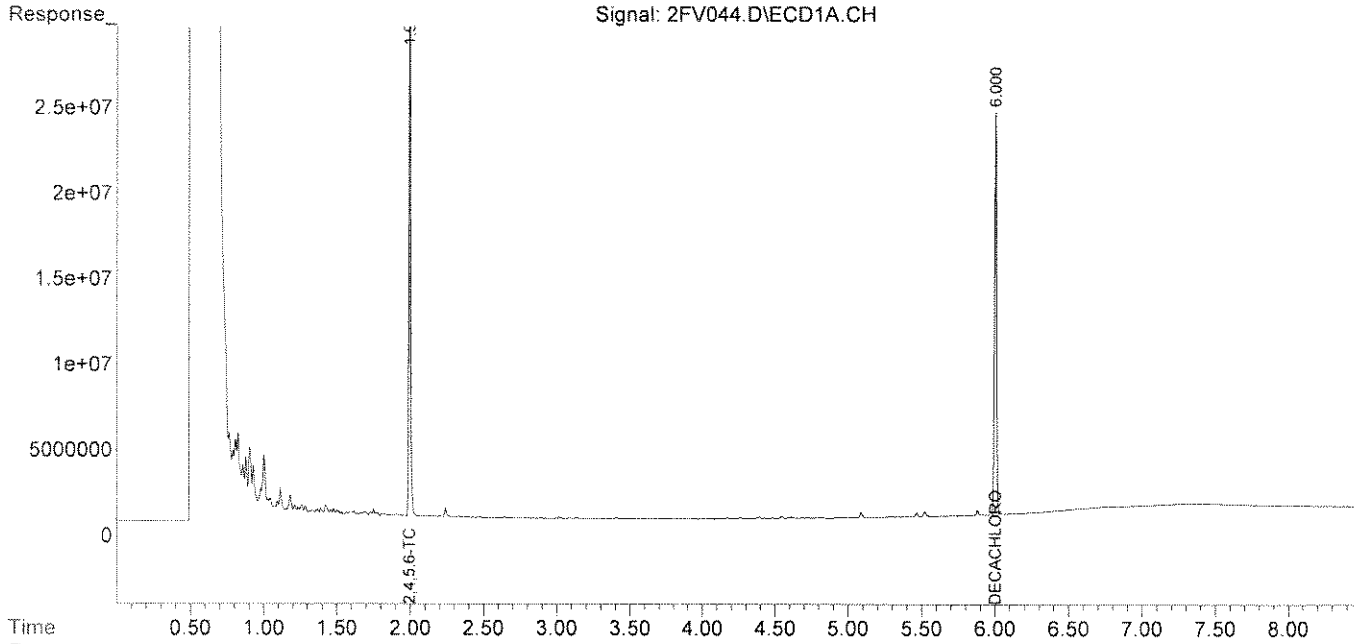
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

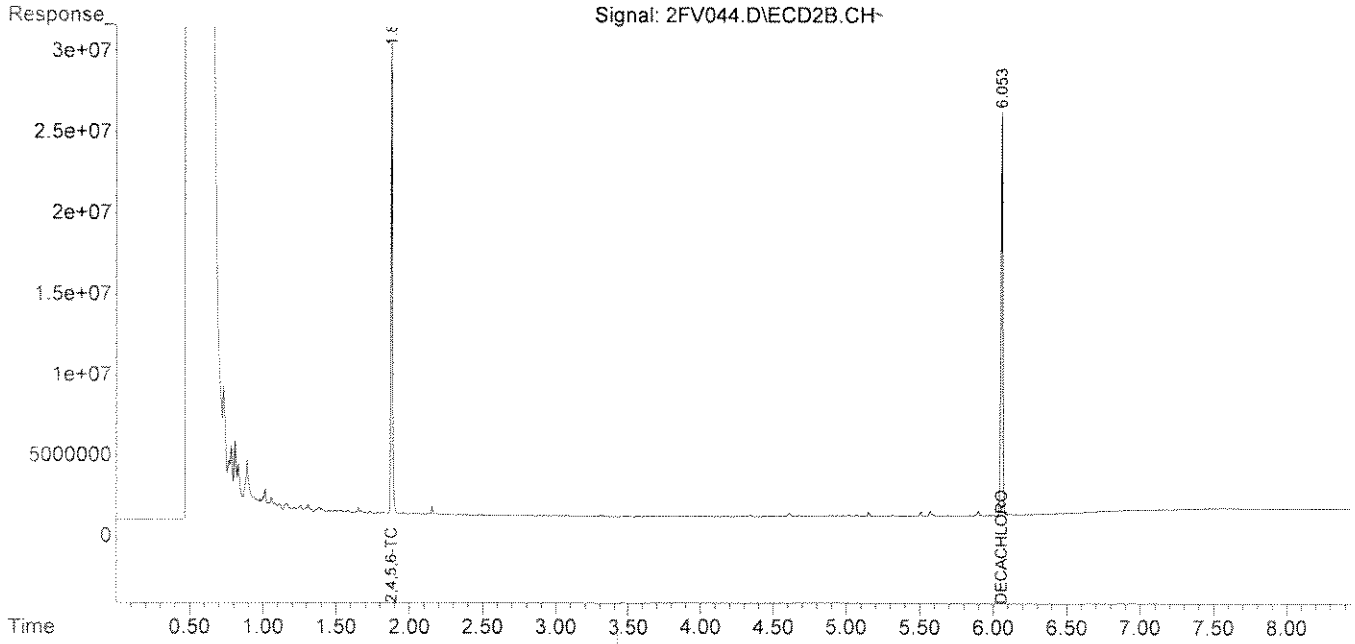
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:07
Operator : RC
Sample : A303499-19
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:58:14 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:19
Operator : RC
Sample : A303499-20
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:58:40 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.995	1.877	252.7E6	212.4E6	0.0396	0.0418	
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d	
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d	
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d	
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d	
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d	
7)	PCB1260#6	4.171	4.176	2385754	2576462	0.0080	0.0091	
8)	PCB1260#7	4.391	4.343	3337747	2732016	0.0076	0.0089	
9)	PCB1260#8	4.688	4.679	2139750	2205737	0.0079	0.0091	
10)	PCB1260#9	4.868	4.890	1741801	2436637	0.0653	0.0092	#
11)	PCB1260#10	5.088	5.066	5487730	3014046	0.0443	0.0056	#
12)	DECACHLOR...	6.000	6.054	216.1E6	220.9E6	0.0605	0.0619	

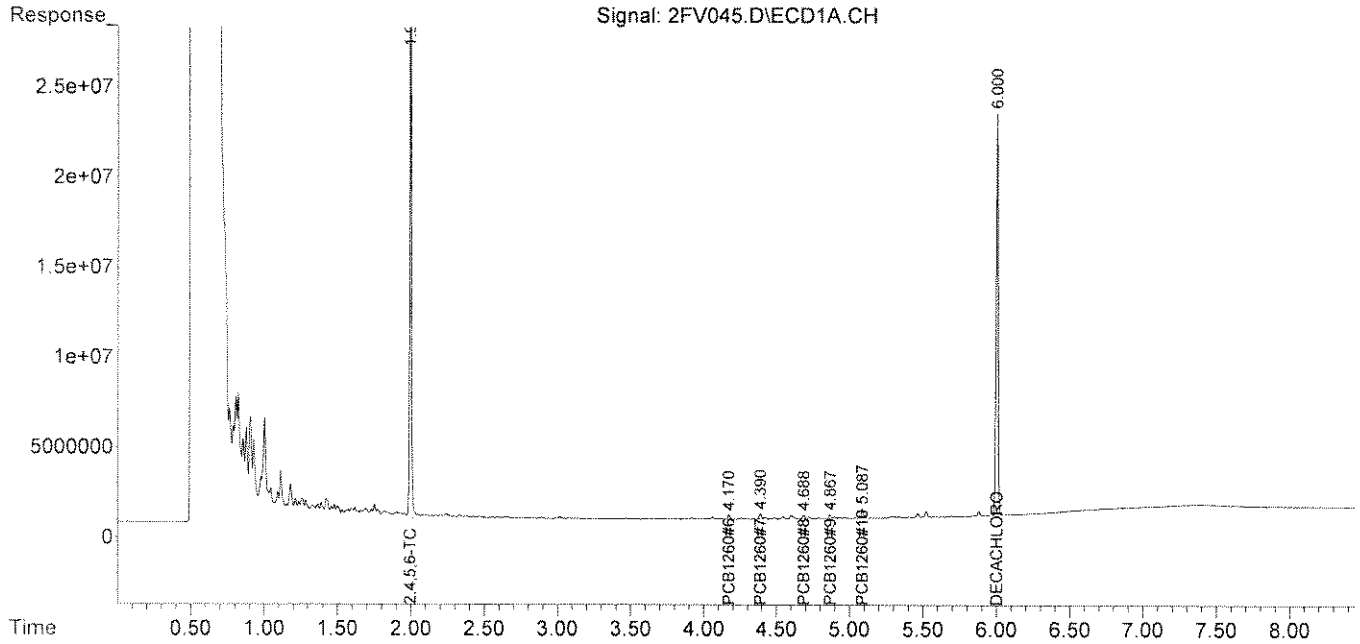
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

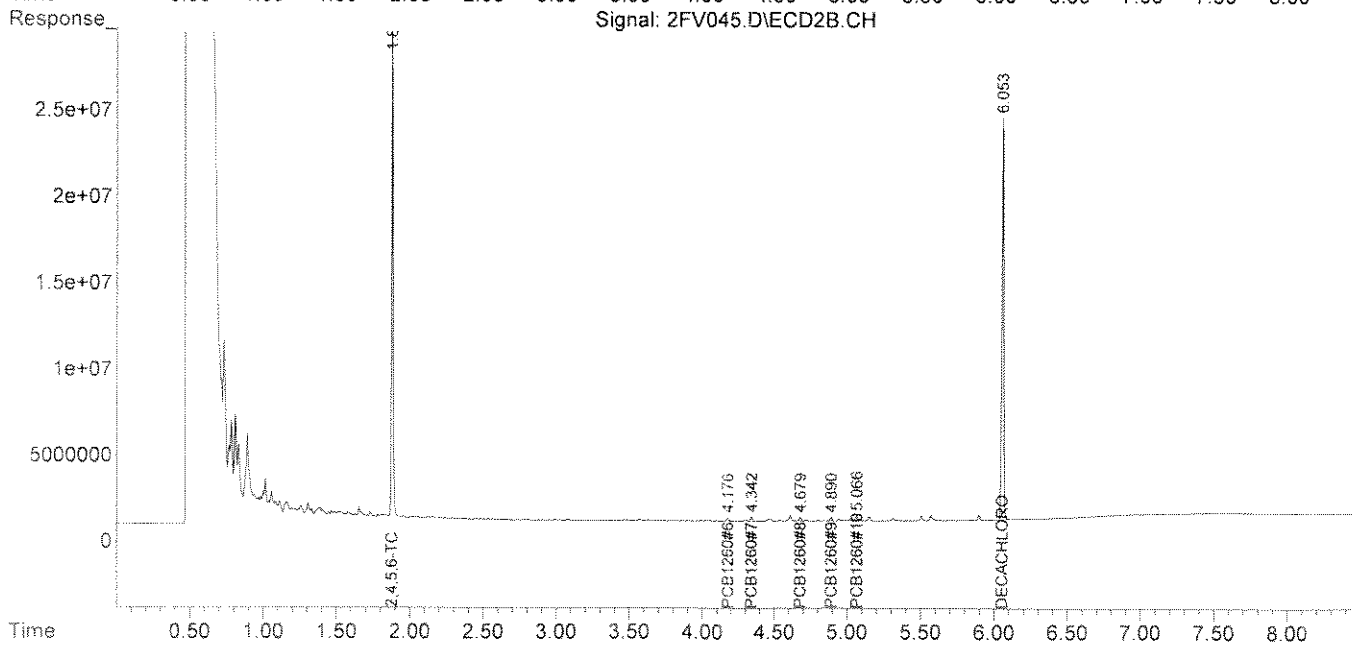
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:19
Operator : RC
Sample : A303499-20
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:58:40 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:31
Operator : RC
Sample : A303499-21
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:58:56 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.996	1.877	350.5E6	304.8E6	0.0549	0.0600
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	6.000	6.053	251.2E6	256.0E6	0.0689	0.0707

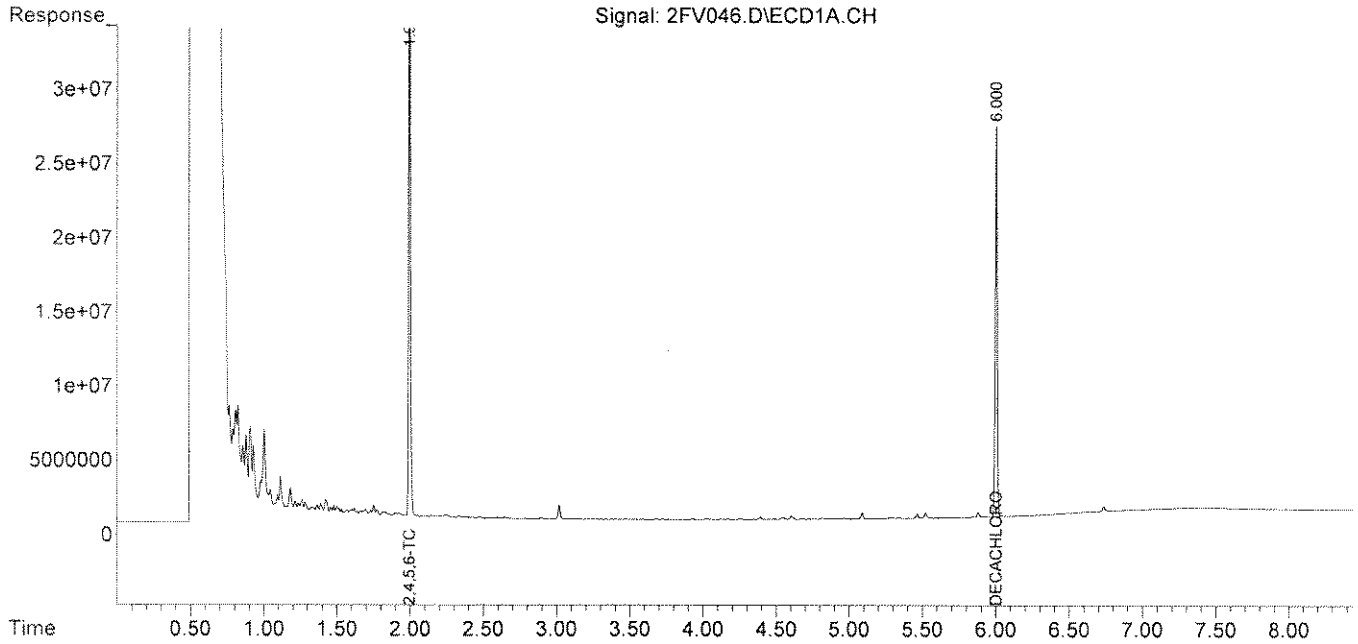
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

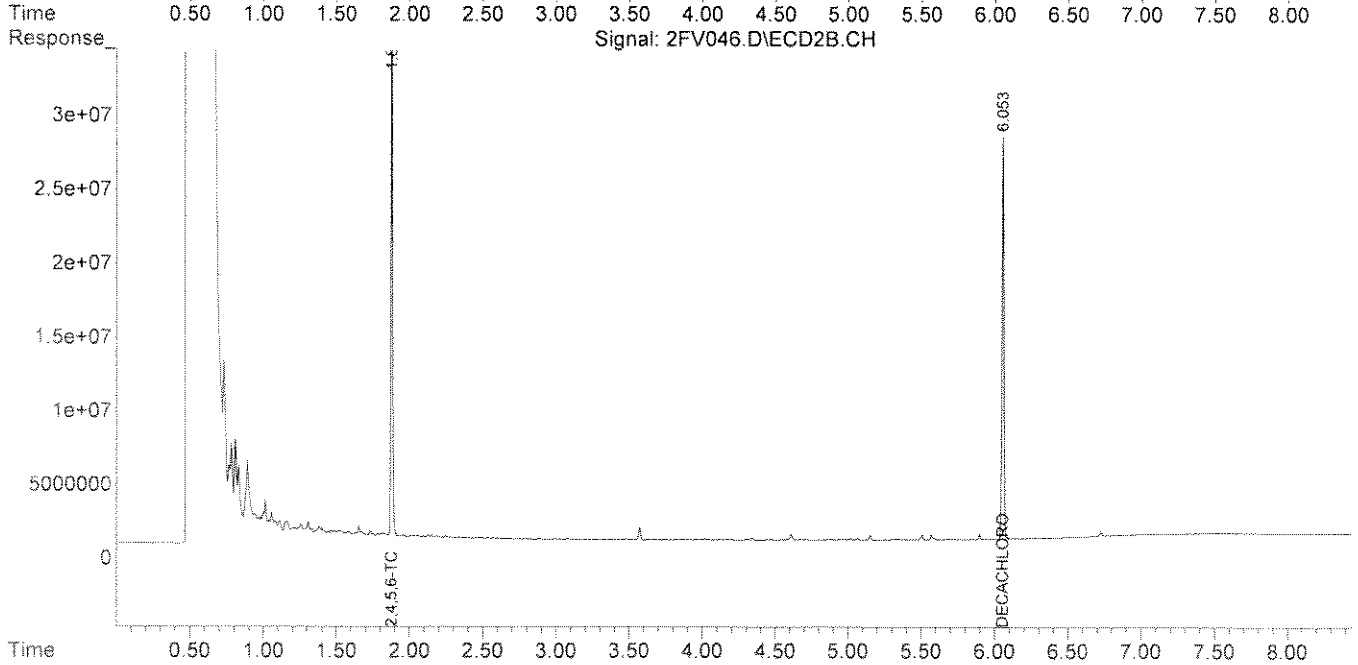
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:31
Operator : RC
Sample : A303499-21
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:58:56 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:43
Operator : RC
Sample : A303499-22
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:59:24 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.996	1.877	179.2E6	150.5E6	0.0281	0.0296	
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d	
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d	
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d	
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d	
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d	
7)	PCB1260#6	4.170	4.175	64412806	76353415	0.2159	0.2688	
8)	PCB1260#7	4.390	4.342	126.1E6	69988825	0.2887	0.2279	
9)	PCB1260#8	4.687	4.680	13340073	18929862	0.0494	0.0783	#
10)	PCB1260#9	4.867	4.889	12275060	13104133	0.0982	0.0494	#
11)	PCB1260#10	5.086	5.066	28012098	31811202	0.0784	0.0591	
12)	DECACHLOR...	6.000	6.053	201.2E6	201.9E6	0.0570	0.0571	

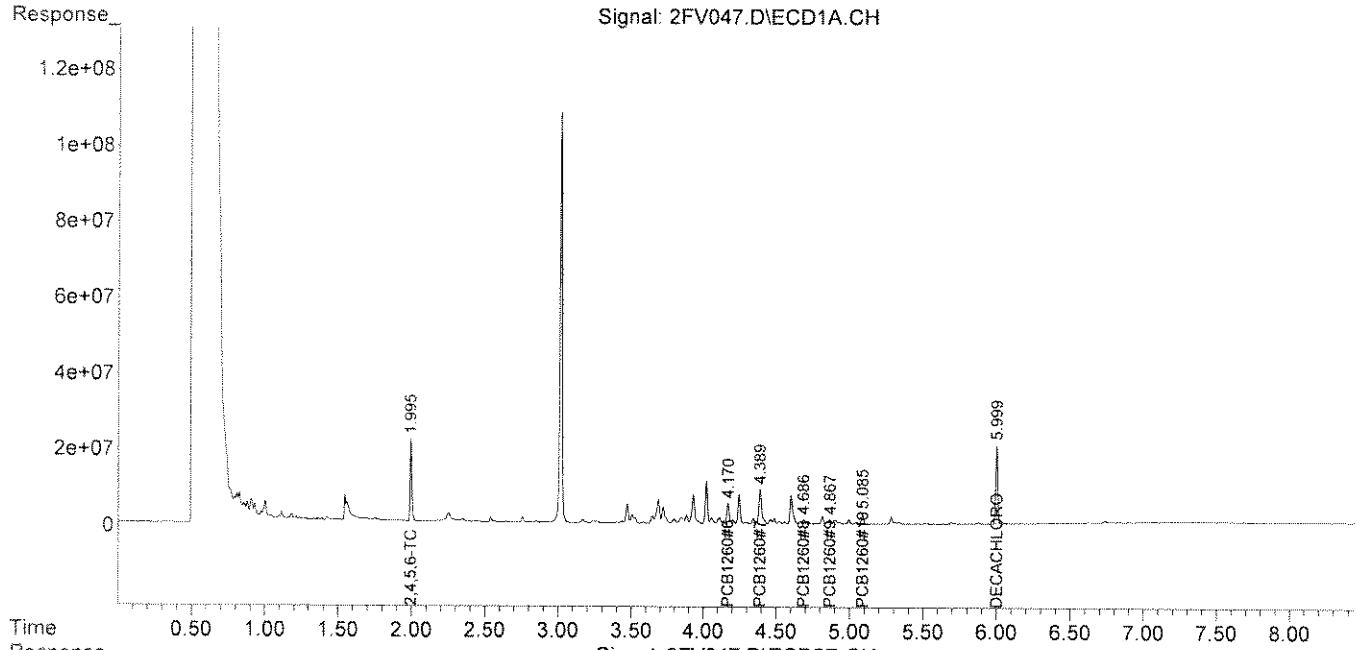
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

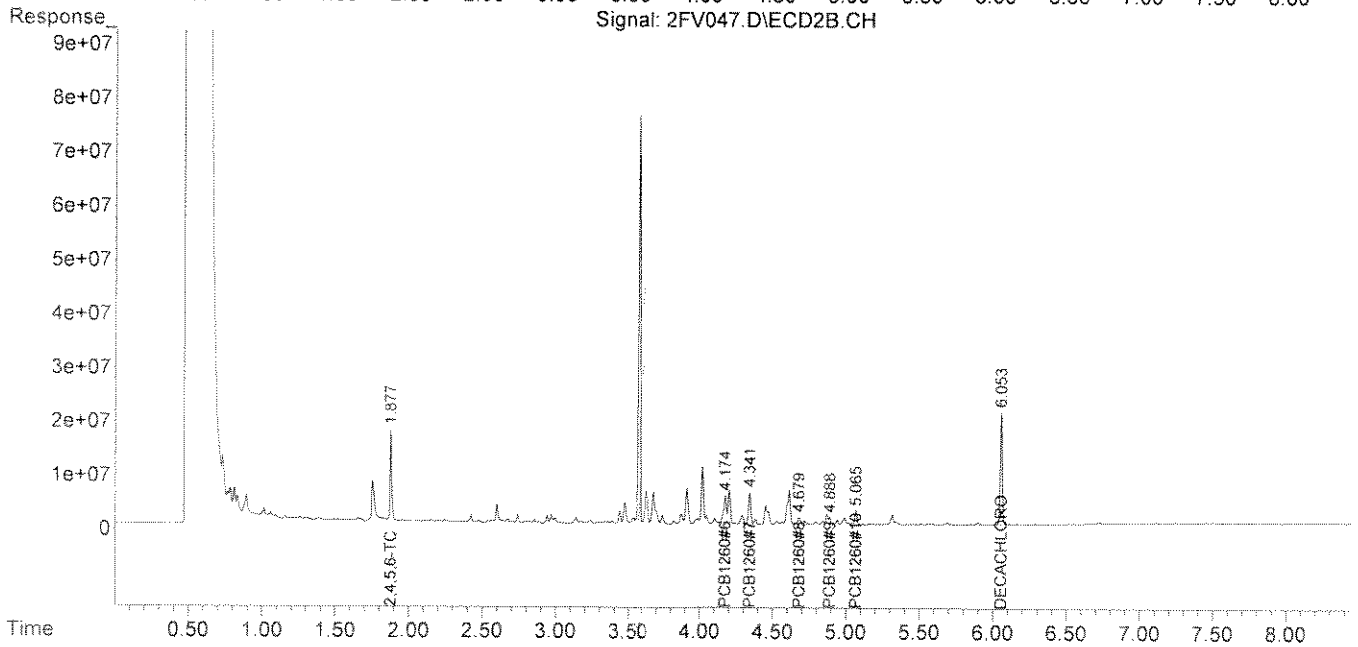
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:43
Operator : RC
Sample : A303499-22
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:59:24 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Thu Jun 27 08:34:19 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:43
Operator : RC
Sample : A303499-22
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 12:04:30 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.996	1.877	179.9E6	152.2E6	0.0313	0.0226	#
2)	PCB1254#1	3.471	3.472	59337186	53804997	0.3301	0.2099	#
3)	PCB1254#2	3.685	3.628	97499073	83485412	0.3084	0.3022	
4)	PCB1254#3	3.932	3.911	112.4E6	89158587	0.5905	0.4171	#
5)	PCB1254#4	4.021	4.018	122.4E6	121.6E6	0.3818	0.3340	
6)	PCB1254#5	4.246	4.342	84209723	69963241	0.3652	0.3899	
7)	DECACHLOR...	6.000	6.053	201.8E6	201.5E6	0.0709	0.0558	

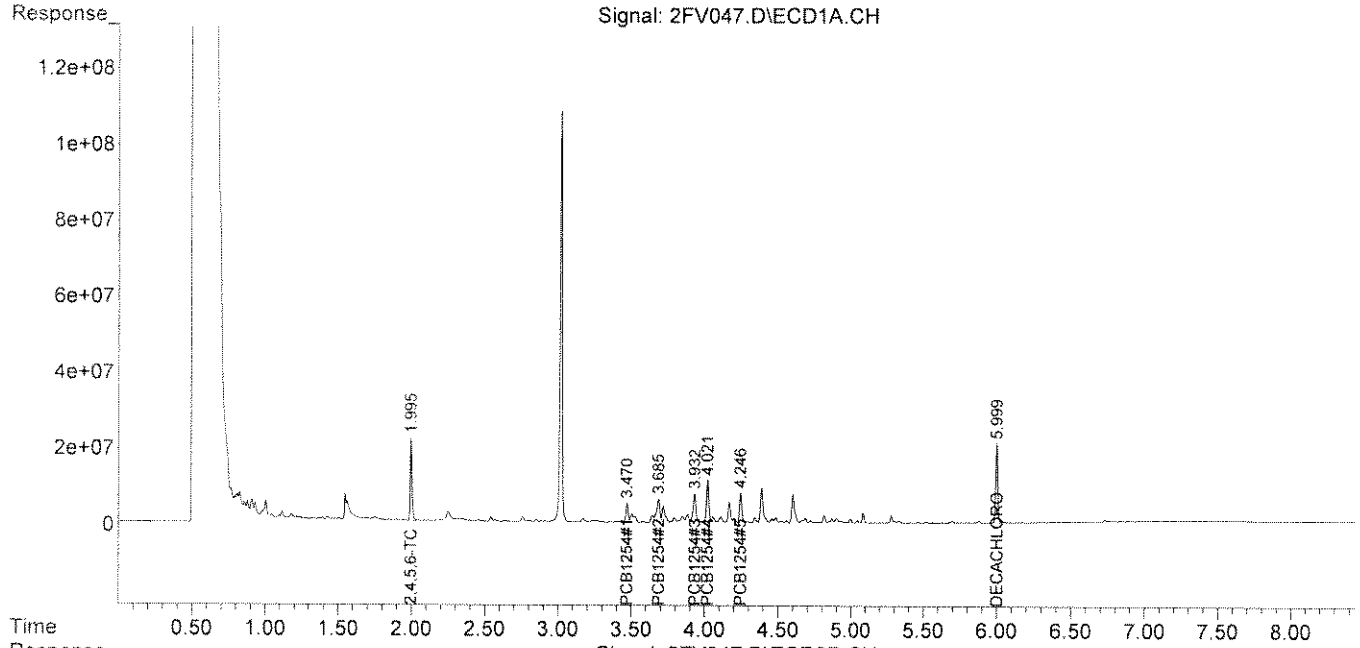
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

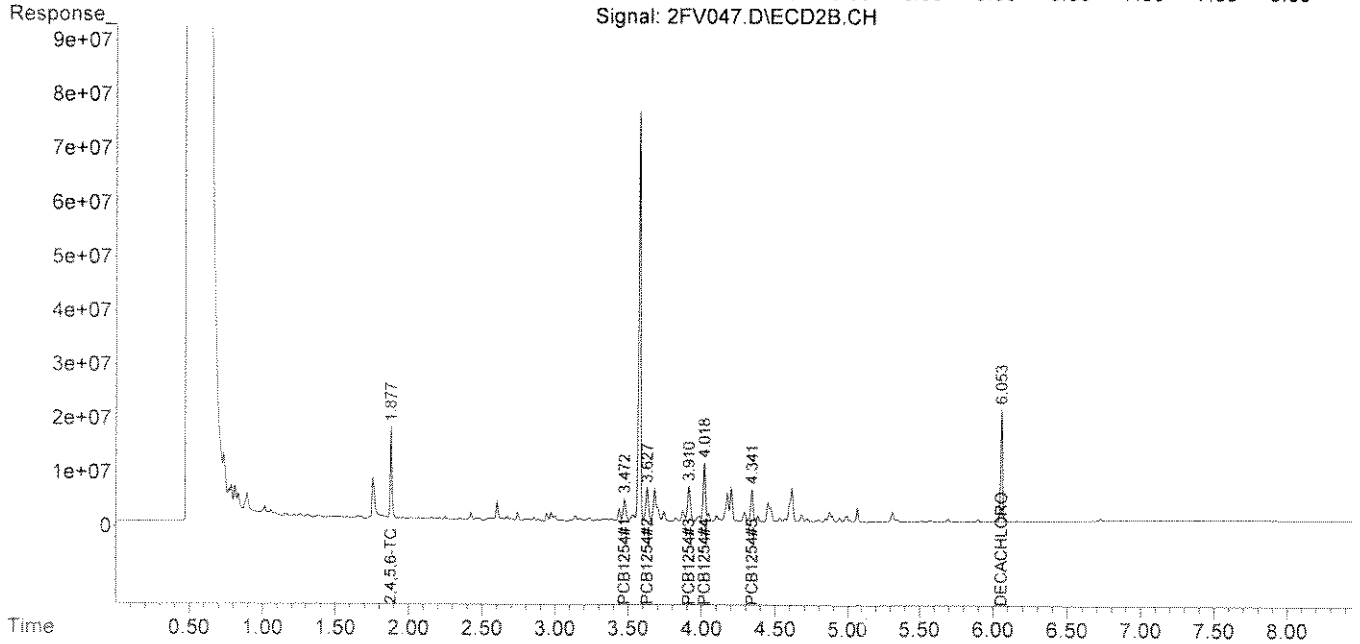
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FV13\
Data File : 2FV047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2013 17:43
Operator : RC
Sample : A303499-22
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 12:04:30 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Fri Jun 28 11:45:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





ANALYSIS SEQUENCE

AA24775

Instrument: OSVGCECD2

Calibration ID: 1306059

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24775-CCV1	QC		1		A3F0300		
AA24775-ARC1	QC		2		A3D0289		
3F28012-BLK1	QC		3				
3F28012-BS1	QC		4				
3F28012-BSD1	QC		5				
A303499-17RE1	8082A DOD	E	6				CH2M Hill, Inc. (CH025)
A303499-22RE1	8082A DOD	E	7				CH2M Hill, Inc. (CH025)
AA24775-CCV2	QC		8		A3F0300		
AA24775-ARC2	QC		9		A3D0289		

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 6/28/2013 12:22:29PM

Analysis
8082A DOD [EPA 8082A]

3F28012
ENCO Orlando

Prepared using: EPA 3550C

Surrogate Solution
__ A3F0348 Pest/PCB Surrogate Working Mix

Spiking Solution
A3E0384 PCB Spike Working Mix

Matrix: Soil

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (g)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
3F28012-BLK1		Blank		QC	–	–	30.0	10			1000		
3F28012-BS1		LCS		QC	–	–	30.0	10	A3E0384	1000	1000		
3F28012-BSD1		LCS Dup		QC	–	–	30.0	10	A3E0384	1000	1000		
A303499-17RE1 1	D	TR-2ND-SB05-0.5-01-0613 E[ENCO	11-Jul-13	8082A DOD	–	–	30.0	10			1000		Low surrogate recovery. Added
A303499-22RE1 2	D	TR-2ND-SB02-06-08-0613 E[ENCO	11-Jul-13	8082A DOD	–	–	30.3	10			1000		Low surrogate recovery. Added

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

8081 soil

Start Date/Time 6/28/13 12:25

StopDate/Time 6/28/13 13:45

Standard ID#	Description	Manufacture Lot#
A3B0097	Baked Sodium Sulfate	A3B0095
A3C0397	Baked Sand	A3C0396
A3D0357	Solvent Hexane	130939
A3F0391	Solvent Dichloromethane	Solvent Lot # DI398

Equipment Used

Sonicator OSON-2,-3 Tuned per manufacturer instructions? [✓] Yes [ ] No [ ] NA
Turbovap Temperature: ____ N2 pressure (initial): ____ (final): ____
Turbovap OTVAP-1 Temperature: 40°C N2 pressure (initial): 3PSI (final): 12PSI
Turbovap Temperature: ____ N2 pressure (initial): ____ (final): ____
Balance OEXTBAL7 Daily calibration complete? [✓] Yes [ ] No [ ] NA
Other

MAC 6/27/13
Samples Prepared By Date

Samples Prepared By Date

Samples Prepared By Date

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 8:42
Operator : RC
Sample : AA24775-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 08:54:07 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.992	1.873	655.2E6	492.9E6	0.1027	0.0970
2)	PCB1016#1	2.217	2.156	93701470	77201306	0.7909	0.7243
3)	PCB1016#2	2.445	2.401	198.5E6	167.9E6	0.8768	0.8422
4)	PCB1016#3	2.765	2.932	254.6E6	78633330	0.8519	0.8642
5)	PCB1016#4	2.858	2.964	168.6E6	83718401	0.8327	0.8512
6)	PCB1016#5	2.904	2.992	99599819	64201153	0.8128	0.7197
7)	PCB1260#6	4.162	4.166	260.4E6	229.6E6	0.8730	0.8084
8)	PCB1260#7	4.381	4.332	385.3E6	256.7E6	0.8824	0.8356
9)	PCB1260#8	4.678	4.669	237.8E6	203.8E6	0.8805	0.8432
10)	PCB1260#9	4.858	4.880	233.8E6	221.9E6	0.7899	0.8371
11)	PCB1260#10	5.076	5.056	450.8E6	492.5E6	0.7190	0.9141 #
12)	DECACHLOR...	5.986	6.039	356.6E6	359.7E6	0.0942	0.0969

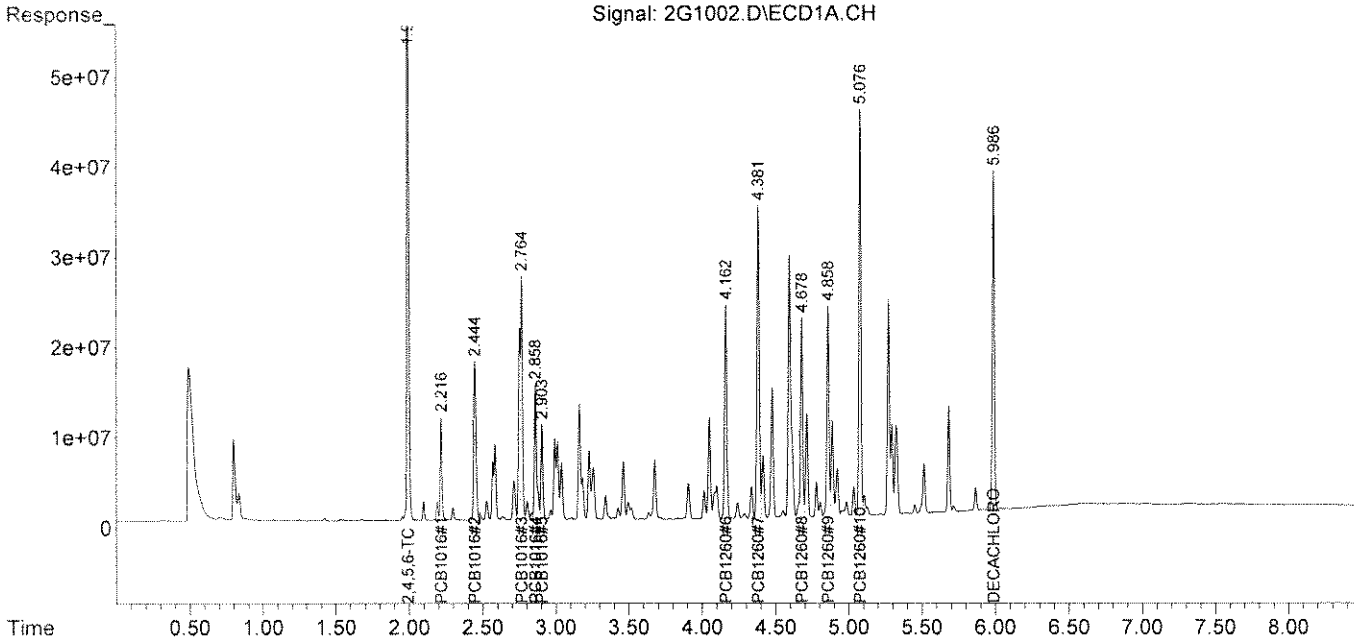
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

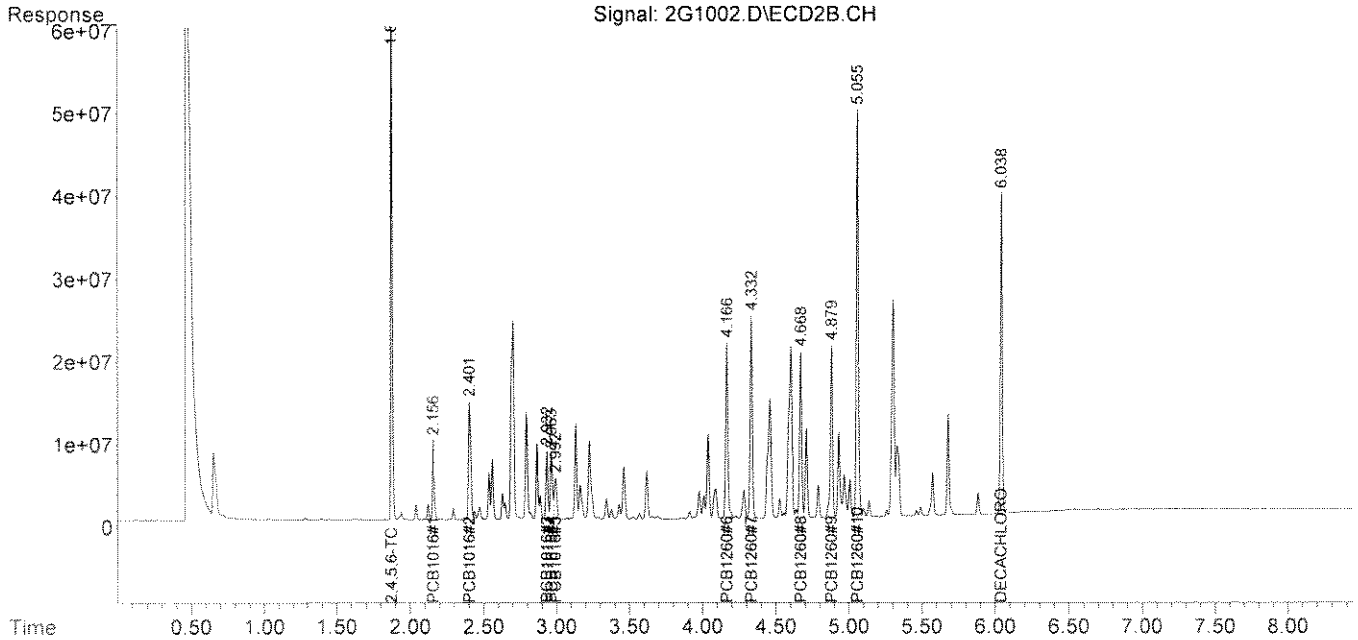
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 8:42
Operator : RC
Sample : AA24775-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 08:54:07 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 8:56
Operator : RC
Sample : AA24775-ARC1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:28:47 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:28:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.996	1.874	656.1E6	499.1E6	0.1143	0.0740	#
2)	PCB1254#1	3.464	3.461	184.5E6	181.9E6	1.0262	0.7096	#
3)	PCB1254#2	3.679	3.618	328.3E6	207.3E6	1.0386	0.7502	#
4)	PCB1254#3	3.914	3.911	195.5E6	156.0E6	1.0268	0.7299	#
5)	PCB1254#4	4.015	4.008	345.4E6	298.7E6	1.0773	0.8205	
6)	PCB1254#5	4.240	4.332	250.1E6	134.3E6	1.0844	0.7483	#
7)	DECACHLOR...	5.986f	6.038	382.0E6	384.1E6	0.1342	0.1150	

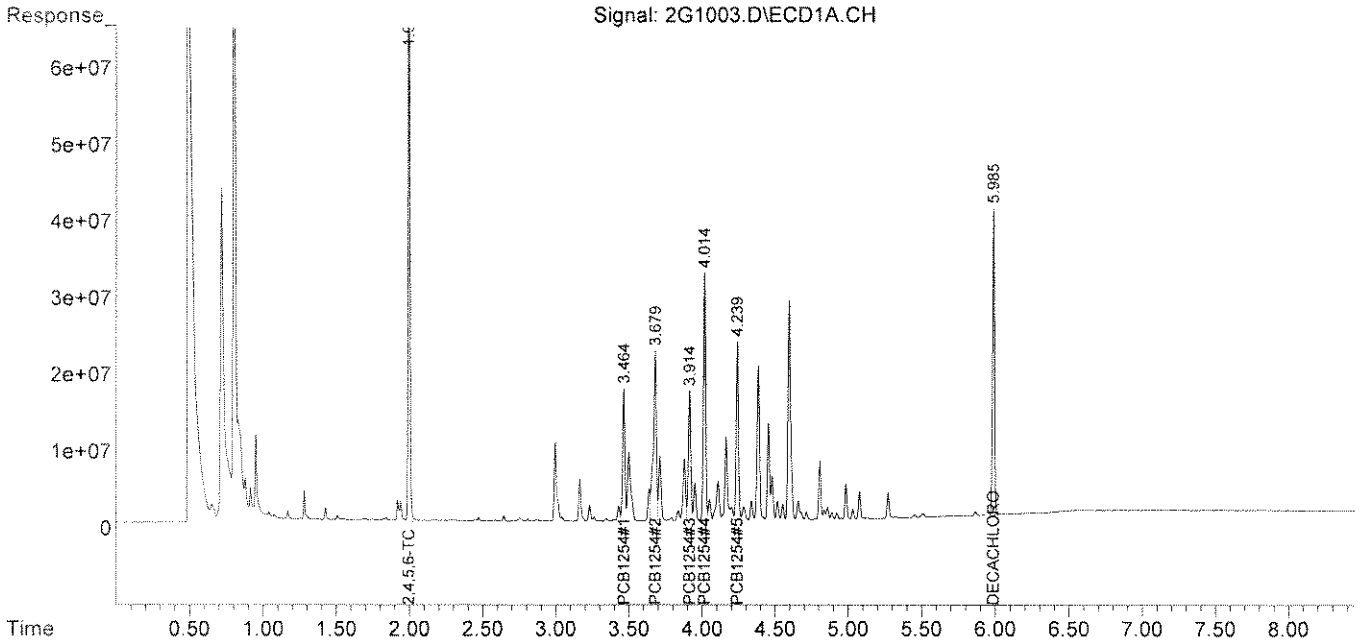
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

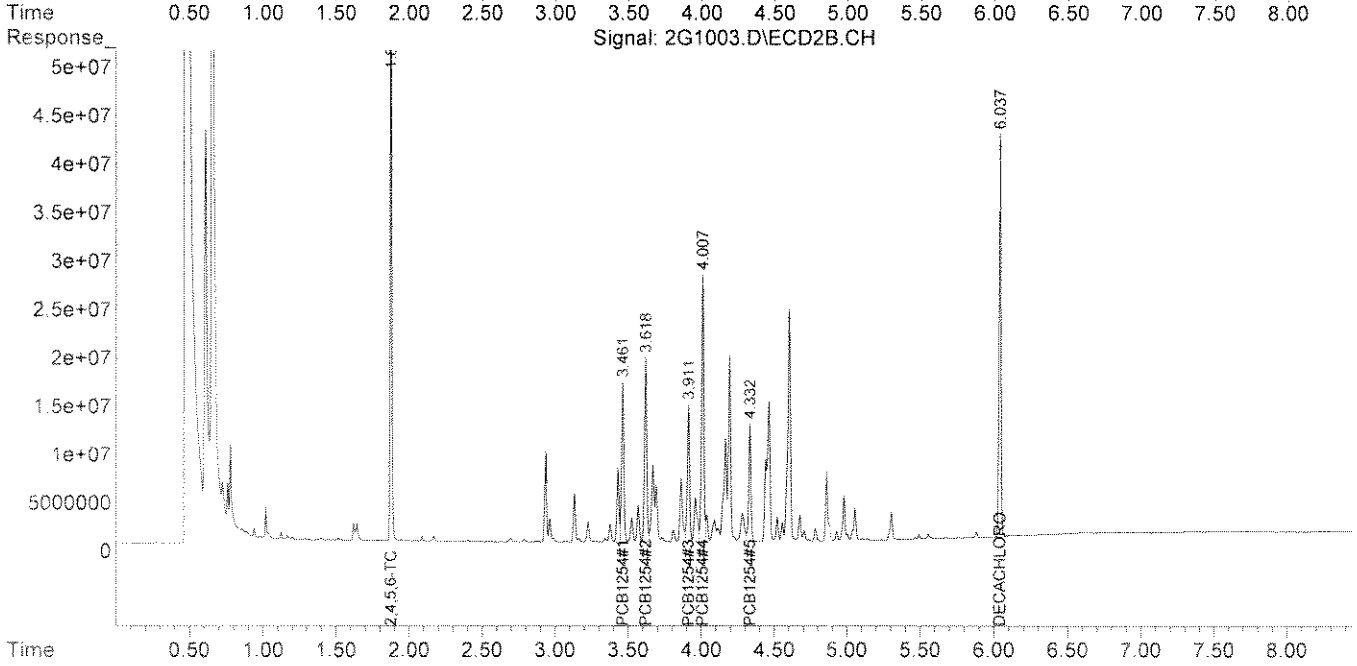
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 8:56
Operator : RC
Sample : AA24775-ARC1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:28:47 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:28:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:08
Operator : RC
Sample : 3F28012-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:20:16 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.992	1.874	524.6E6	437.9E6	0.0822	0.0862
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	0.000	0.000	0	0	N.D. d	N.D. d
8)	PCB1260#7	0.000	0.000	0	0	N.D. d	N.D. d
9)	PCB1260#8	0.000	0.000	0	0	N.D. d	N.D. d
10)	PCB1260#9	0.000	0.000	0	0	N.D. d	N.D. d
11)	PCB1260#10	0.000	0.000	0	0	N.D. d	N.D. d
12)	DECACHLOR...	5.986	6.040	350.3E6	347.7E6	0.0927	0.0938

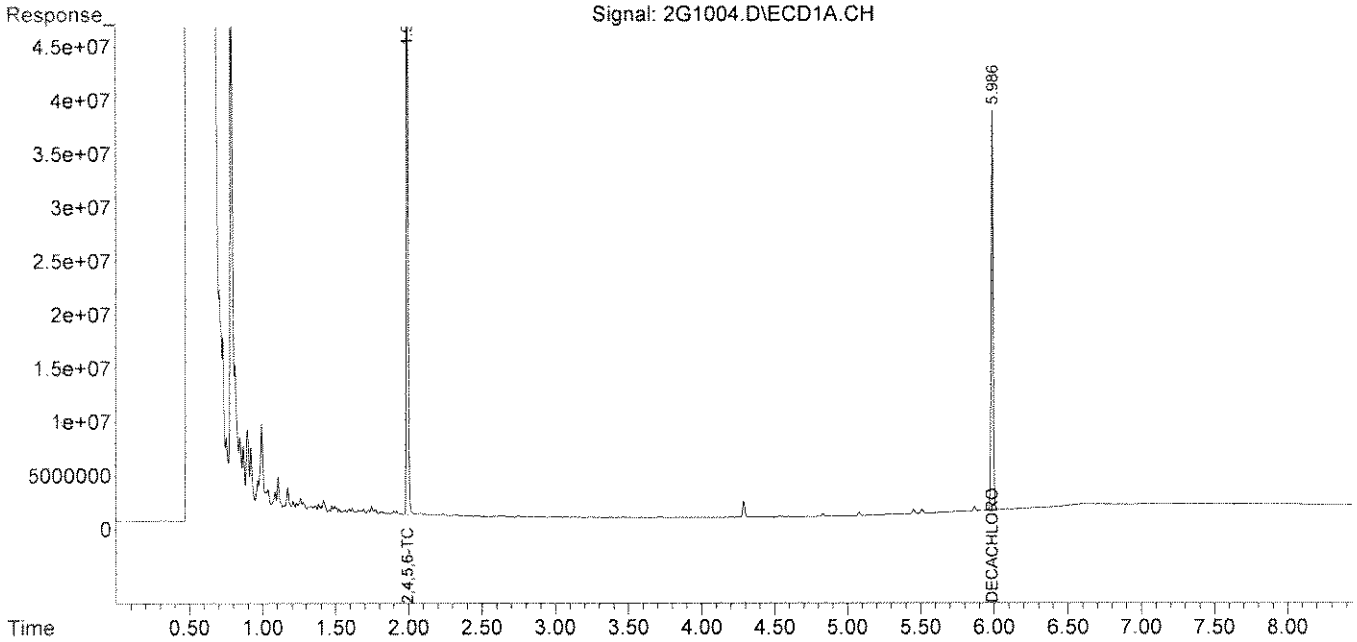
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

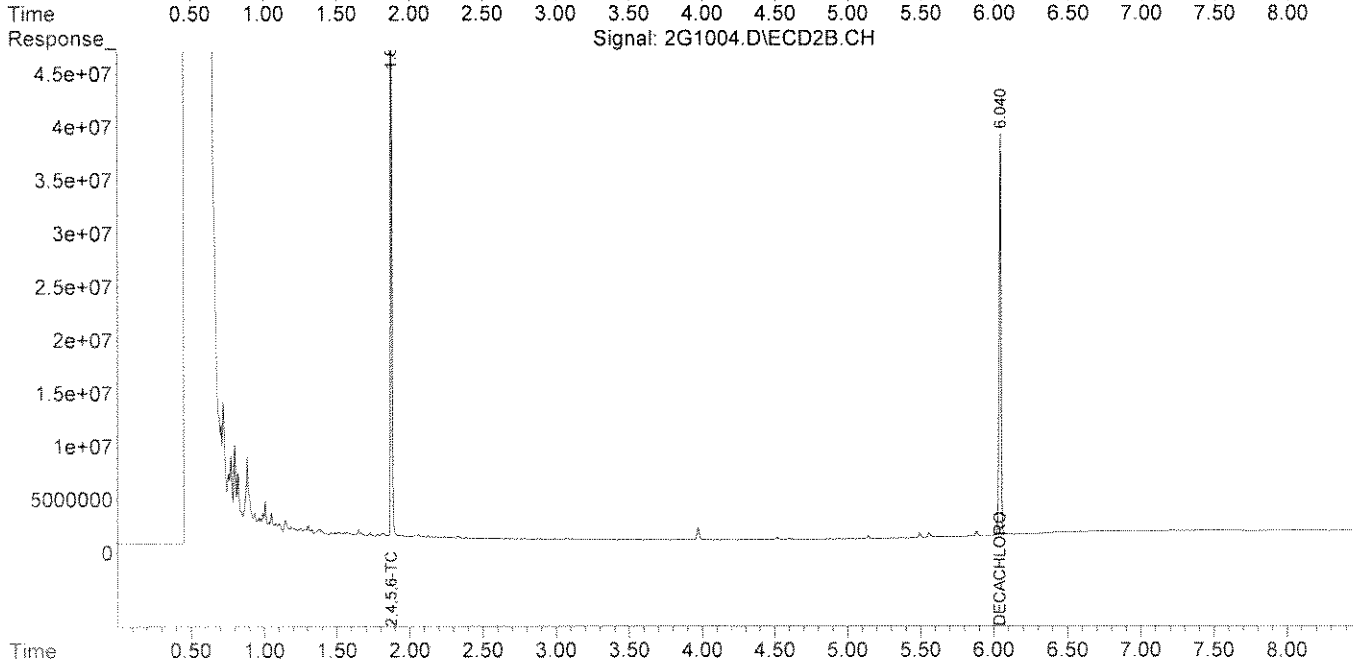
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:08
Operator : RC
Sample : 3F28012-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:20:16 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:20
Operator : RC
Sample : 3F28012-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:08:31 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.996	1.878	594.6E6	494.1E6	0.0932	0.0973
2)	PCB1016#1	2.221	2.162	88558457	78665645	0.7475	0.7381
3)	PCB1016#2	2.449	2.407	198.9E6	173.0E6	0.8786	0.8680
4)	PCB1016#3	2.770	2.940	259.8E6	86857090	0.8680	0.9546
5)	PCB1016#4	2.864	2.971	174.3E6	92421209	0.8608	0.9397
6)	PCB1016#5	2.909	3.000	103.5E6	70912786	0.8422	0.7949
7)	PCB1260#6	4.167	4.173	287.8E6	278.7E6	0.9648	0.9812
8)	PCB1260#7	4.387	4.339	449.1E6	312.9E6	1.0283	1.0188
9)	PCB1260#8	4.683	4.675	230.6E6	210.6E6	0.8540	0.8714
10)	PCB1260#9	4.862	4.885	246.9E6	244.7E6	0.8307	0.9231
11)	PCB1260#10	5.080	5.060	541.4E6	501.8E6	0.8563	0.9315
12)	DECACHLOR...	5.988	6.042	383.4E6	390.1E6	0.1006	0.1045

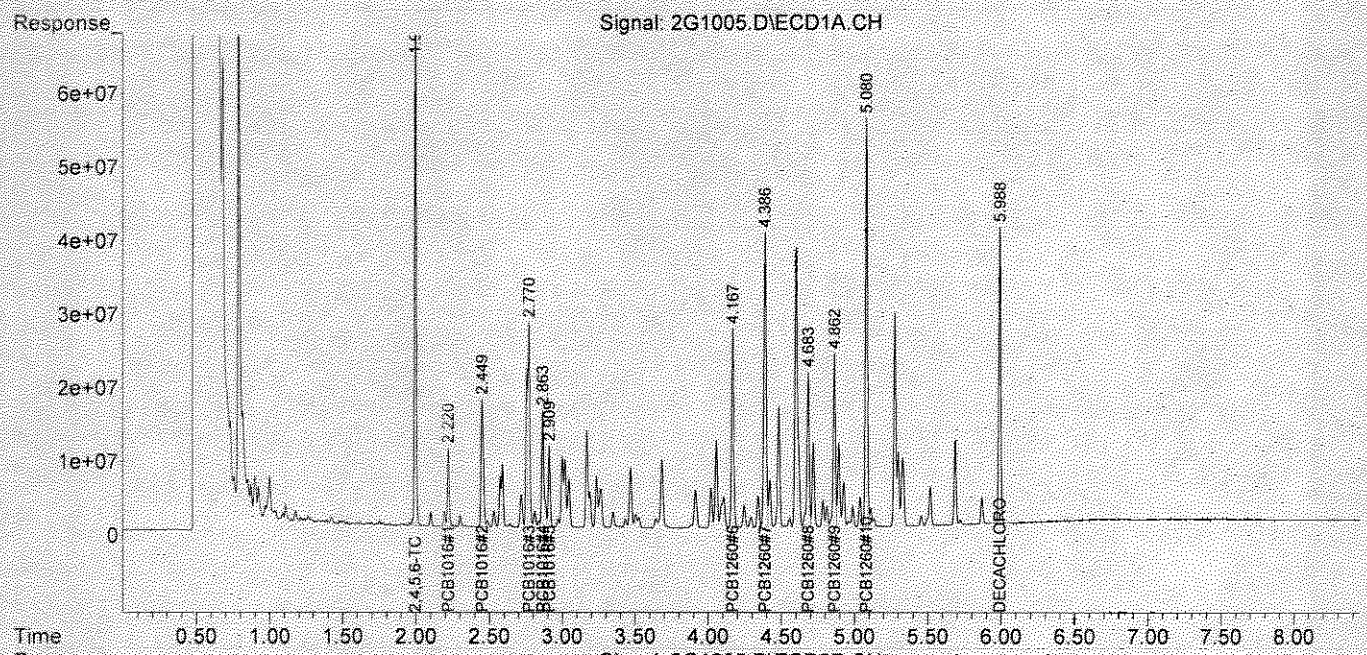
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

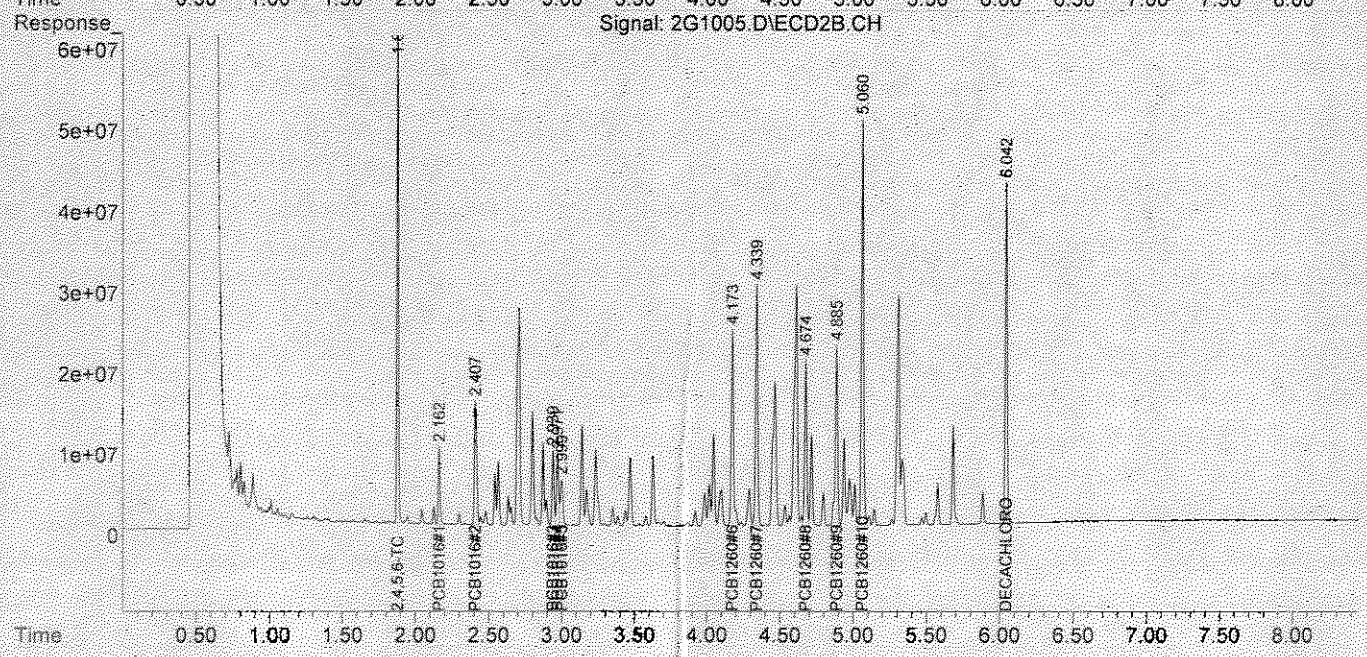
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:20
Operator : RC
Sample : 3F28012-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:08:31 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:32
Operator : RC
Sample : 3F28012-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:08:34 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.996	1.878	602.0E6	500.8E6	0.0944	0.0986
2)	PCB1016#1	2.221	2.162	90642543	80986776	0.7651	0.7598
3)	PCB1016#2	2.450	2.408	203.7E6	174.9E6	0.9000	0.8773
4)	PCB1016#3	2.771	2.941	271.2E6	90945402	0.9039	0.9995
5)	PCB1016#4	2.864	2.972	182.0E6	97111660	0.8988	0.9874
6)	PCB1016#5	2.910	3.001	108.7E6	74688225	0.8803	0.8372
7)	PCB1260#6	4.168	4.174	308.6E6	298.7E6	1.0345	1.0517
8)	PCB1260#7	4.387	4.340	473.1E6	334.5E6	1.0833	1.0890
9)	PCB1260#8	4.684	4.675	247.3E6	226.0E6	0.9156	0.9351
10)	PCB1260#9	4.863	4.886	265.0E6	261.1E6	0.8873	0.9852
11)	PCB1260#10	5.081	5.062	572.6E6	521.7E6	0.9036	0.9684
12)	DECACHLOR...	5.990	6.043	411.3E6	413.8E6	0.1073	0.1105

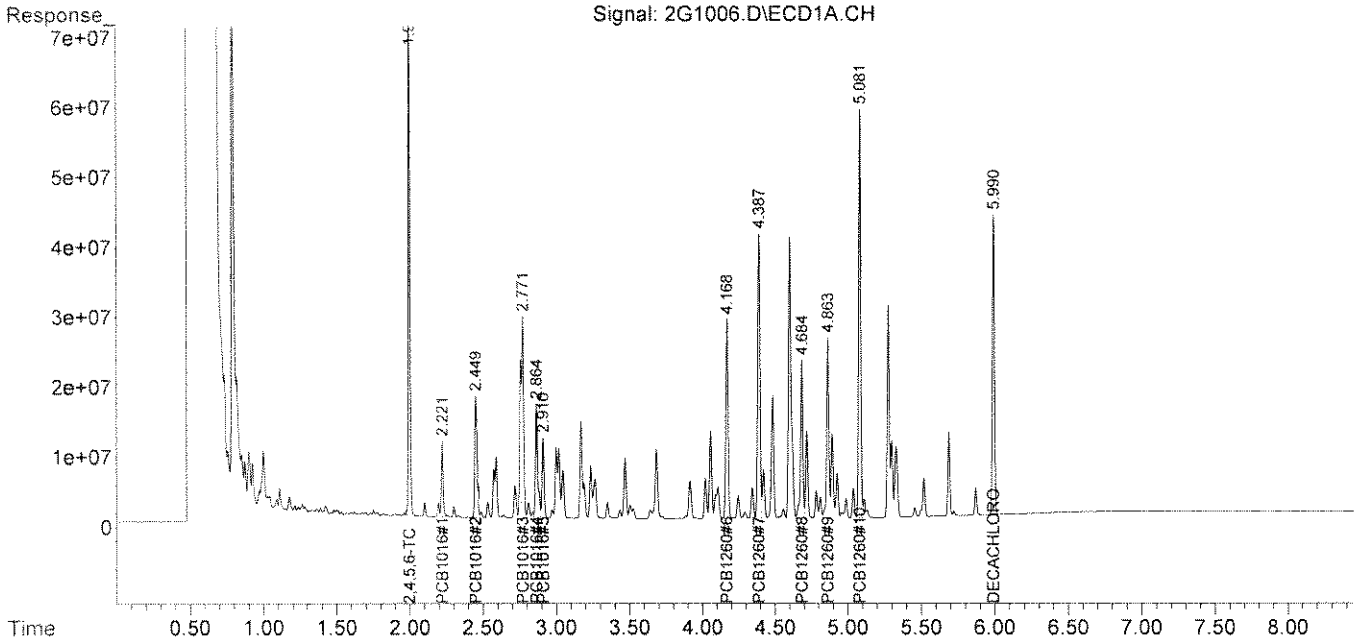
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

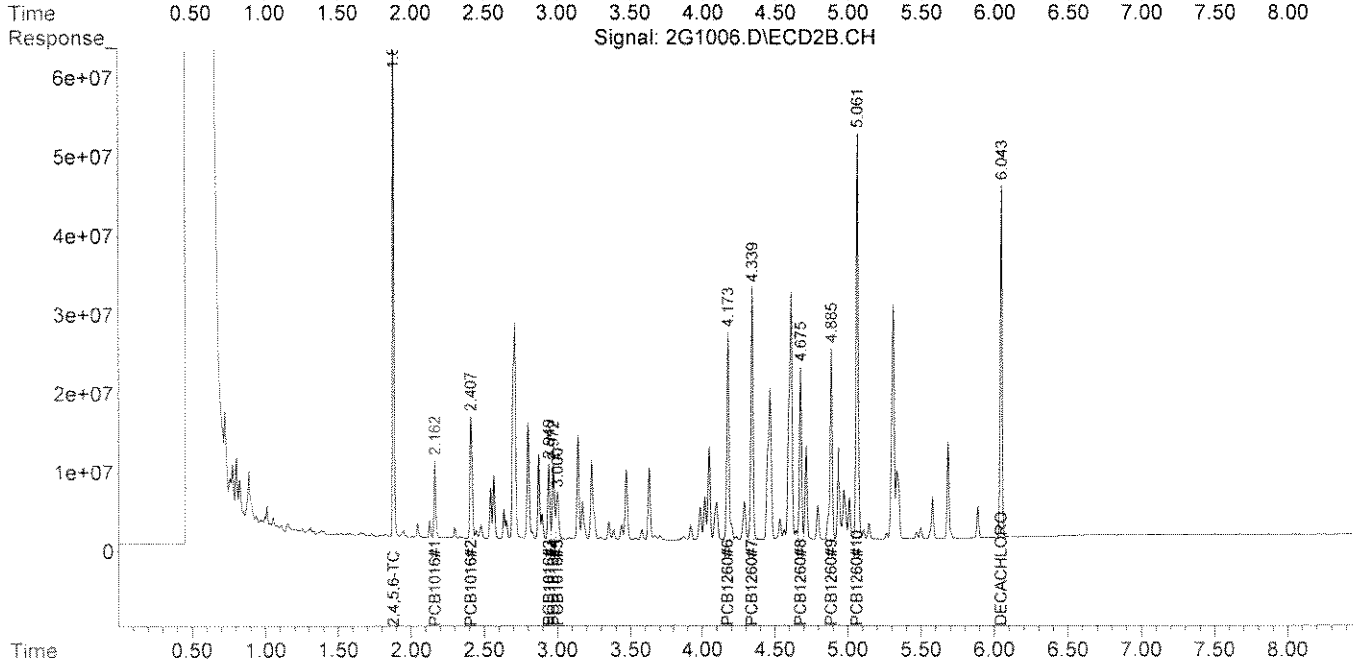
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:32
Operator : RC
Sample : 3F28012-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:08:34 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:44
Operator : RC
Sample : A303499-17RE1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:23:57 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	1.998	1.880	493.8E6	415.2E6	0.0774	0.0817
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d
7)	PCB1260#6	4.170	4.176	82270526	88411422	0.2758	0.3113
8)	PCB1260#7	4.390	4.342	133.6E6	92308417	0.3060	0.3005
9)	PCB1260#8	4.686	4.677	83020803	80640764	0.3074	0.3336
10)	PCB1260#9	4.864	4.888	79146293	73075836	0.3069	0.2757
11)	PCB1260#10	5.083	5.063	143.3E6	144.0E6	0.2531	0.2673
12)	DECACHLOR...	5.991	6.044	334.0E6	329.5E6	0.0888	0.0892

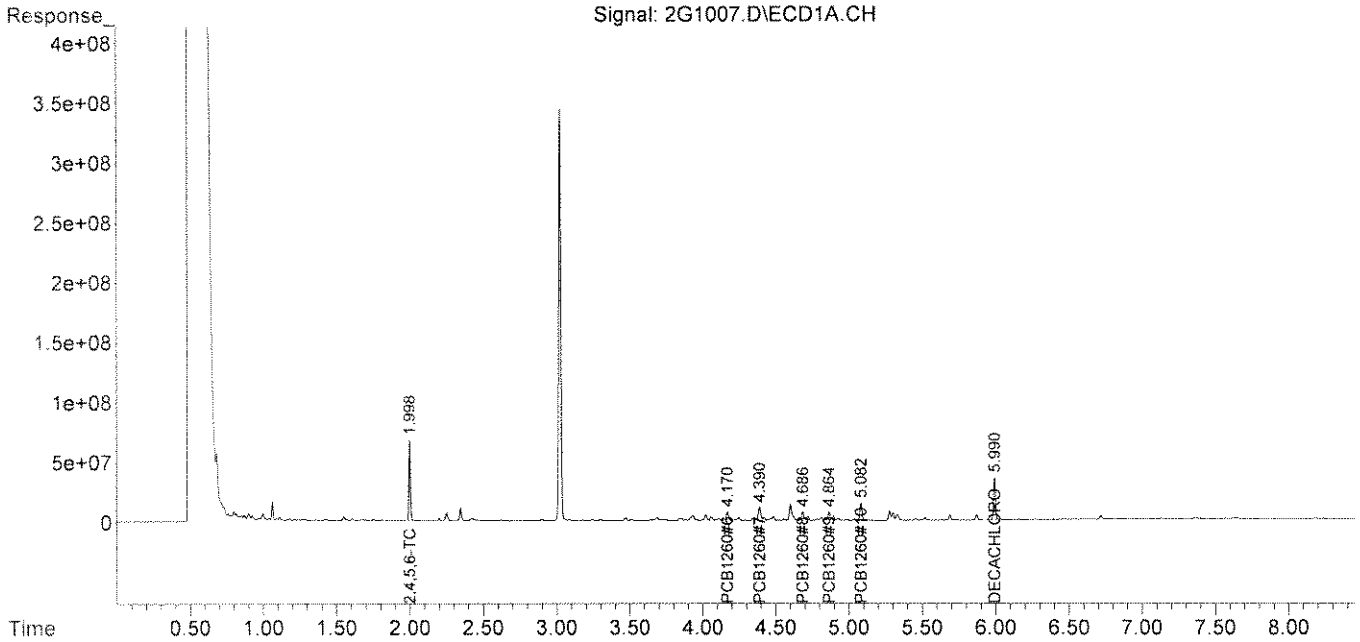
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

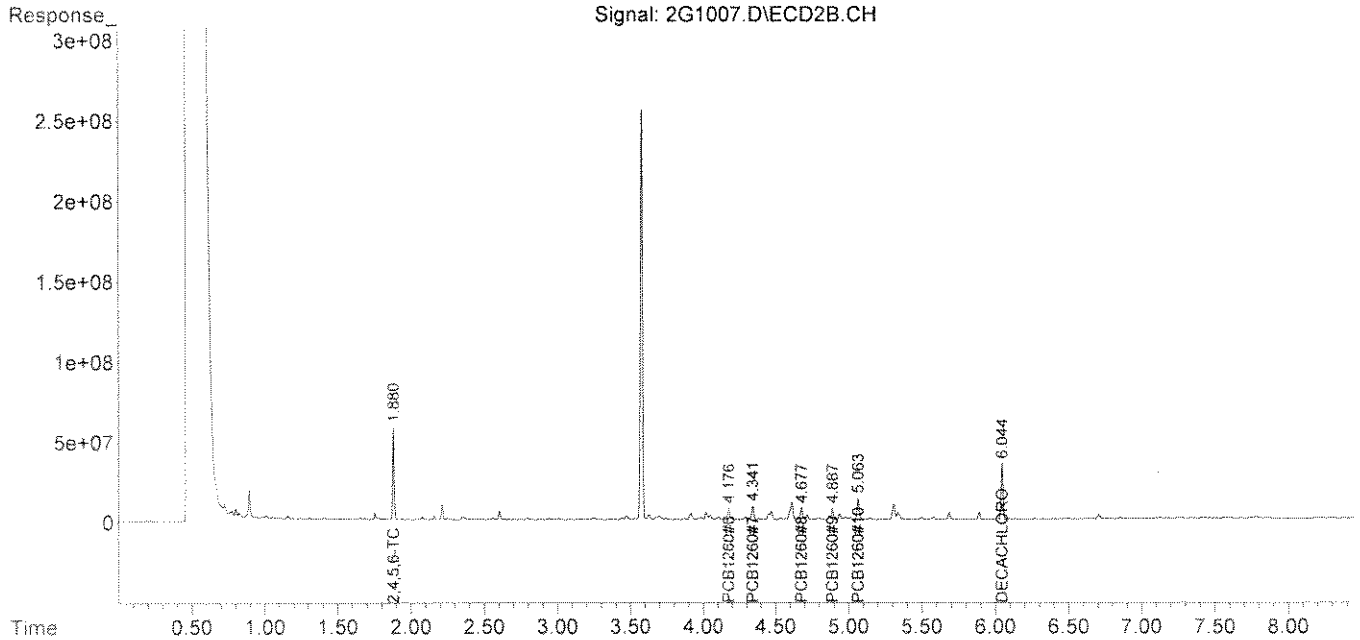
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:44
Operator : RC
Sample : A303499-17RE1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:23:57 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:44
Operator : RC
Sample : A303499-17RE1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:33:08 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:31:26 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	1.998	1.880	493.6E6	415.8E6	0.0860	0.0616	#
2)	PCB1254#1	3.472	3.472	27117164	37598447	0.1508	0.1467	
3)	PCB1254#2	3.687	3.628	40416720	43580247	0.1278	0.1577	
4)	PCB1254#3	3.932	3.913f	67923991	52972281	0.3568	0.2478	#
5)	PCB1254#4	4.022	4.019	60411586	54902813	0.1884	0.1508	
6)	PCB1254#5	4.247	4.342	32568187	92288948	0.1412	0.5143	#
7)	DECACHLOR...	5.991	6.044	338.0E6	332.7E6	0.1187	0.0983	

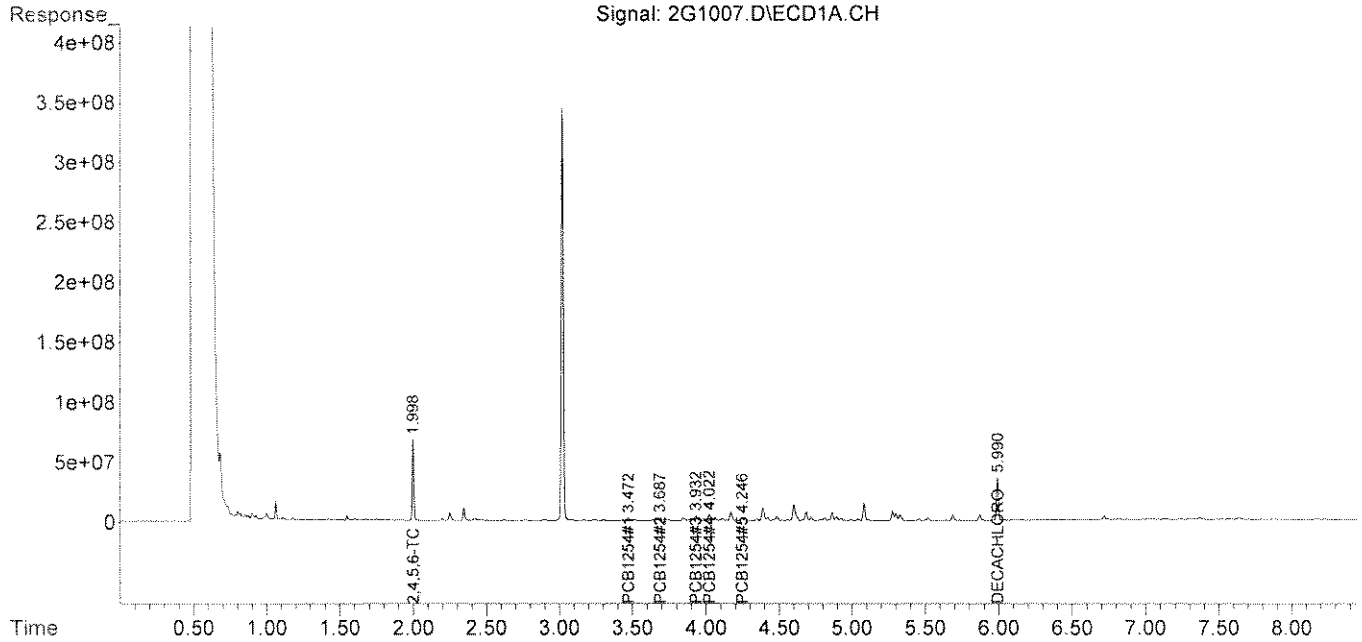
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

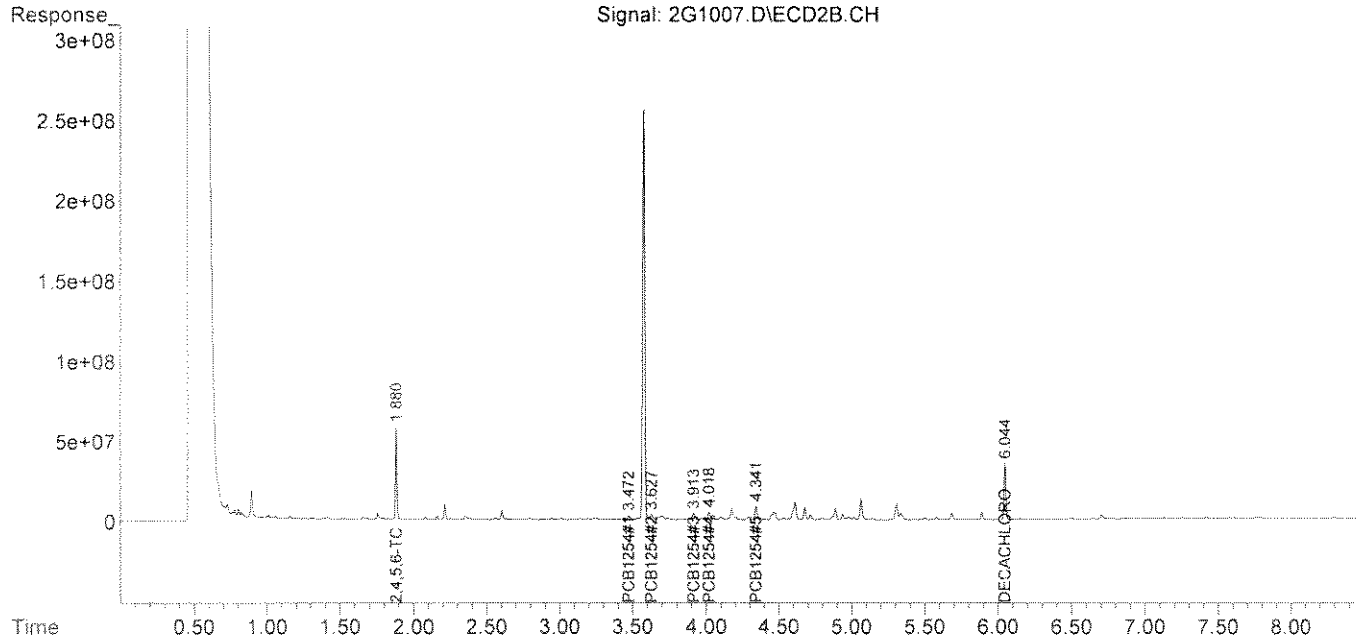
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:44
Operator : RC
Sample : A303499-17RE1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:33:08 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:31:26 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:57
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:24:19 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.002	1.883	454.9E6	375.2E6	0.0713	0.0739	
2)	PCB1016#1	0.000	0.000	0	0	N.D. d	N.D. d	
3)	PCB1016#2	0.000	0.000	0	0	N.D. d	N.D. d	
4)	PCB1016#3	0.000	0.000	0	0	N.D. d	N.D. d	
5)	PCB1016#4	0.000	0.000	0	0	N.D. d	N.D. d	
6)	PCB1016#5	0.000	0.000	0	0	N.D. d	N.D. d	
7)	PCB1260#6	4.175	4.180	239.0E6	246.7E6	0.8011	0.8684	
8)	PCB1260#7	4.394	4.346	374.5E6	230.3E6	0.8575	0.7498	
9)	PCB1260#8	4.668	4.682	24924767	111.2E6	0.0923	0.4599	#
10)	PCB1260#9	4.869	4.871	101.2E6	66004819	0.3758	0.2490	#
11)	PCB1260#10	5.087	5.067	195.7E6	194.9E6	0.3325	0.3618	
12)	DECACHLOR...	5.994	6.048	307.6E6	322.0E6	0.0825	0.0873	

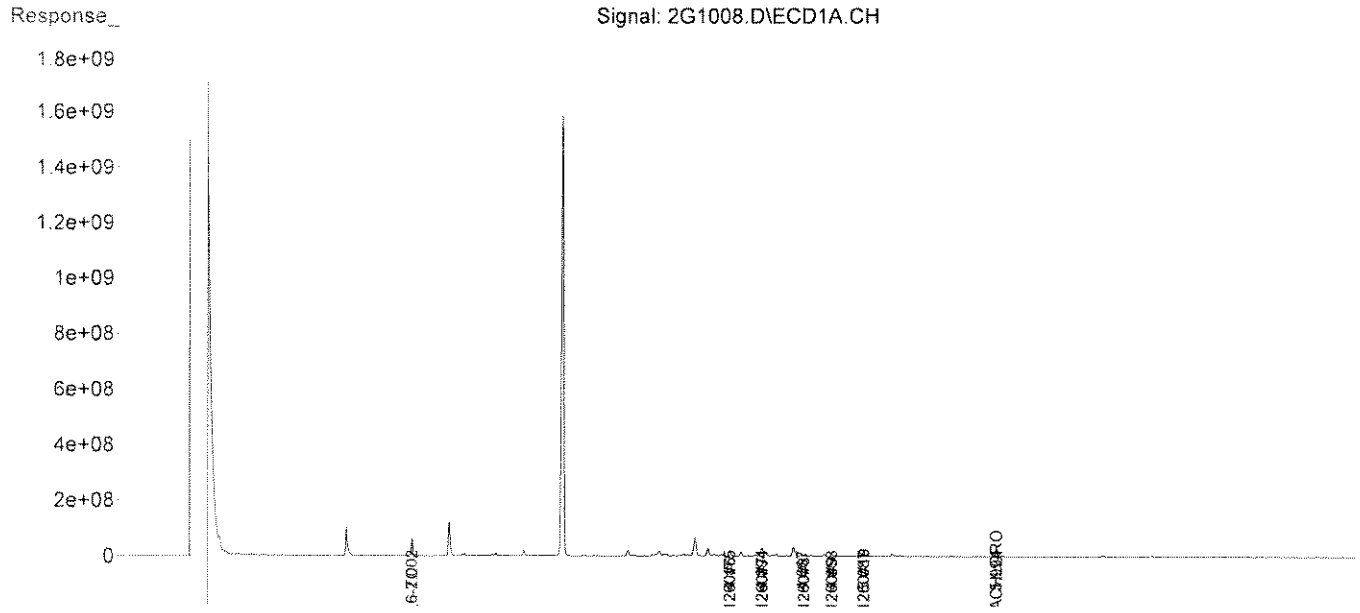
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

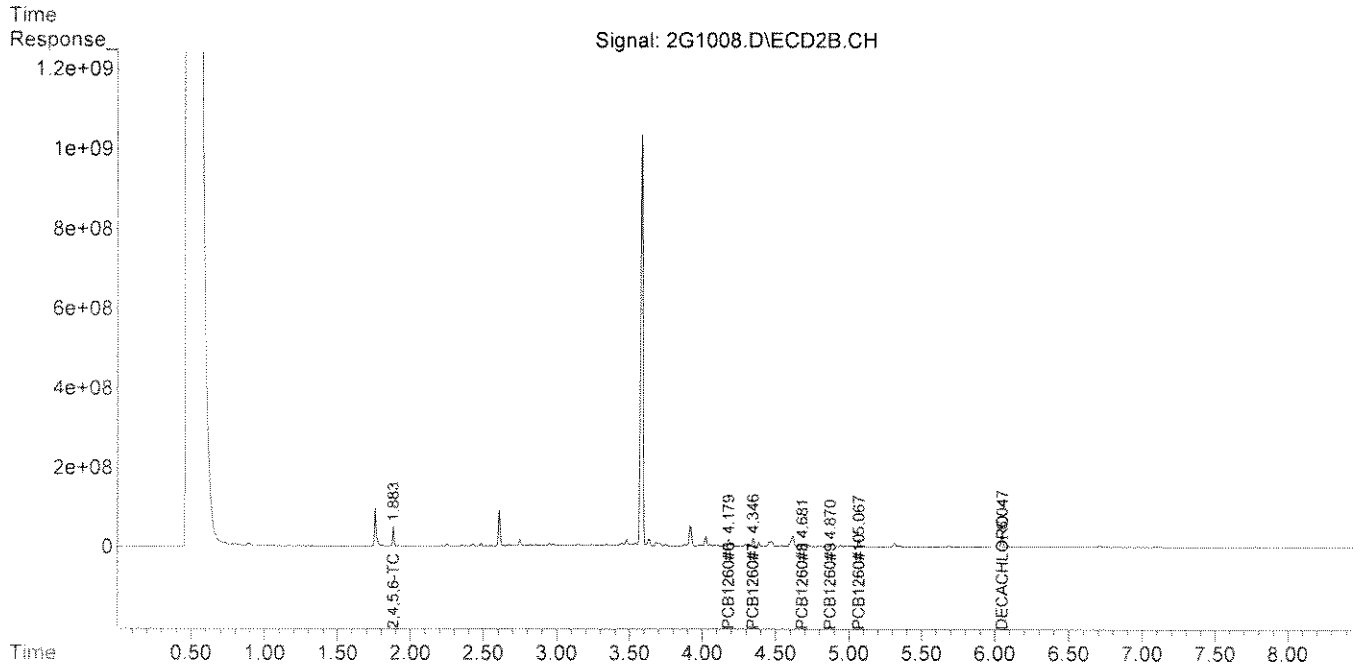
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:57
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:24:19 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 08:54:01 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:57
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:33:10 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:31:26 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.002	1.883	454.9E6	375.3E6	0.0793	0.0556	#
2)	PCB1254#1	3.478	3.479	230.2E6	267.2E6	1.2805	1.0428	
3)	PCB1254#2	3.692	3.633	285.8E6	289.1E6	0.9041	1.0463	
4)	PCB1254#3	3.938	3.917f	845.4E6	664.6E6	4.4402	3.1093	#
5)	PCB1254#4	4.027	4.023	309.4E6	286.2E6	0.9649	0.7863	
6)	PCB1254#5	4.252	4.346	146.9E6	230.8E6	0.6371	1.2861	#
7)	DECACHLOR...	5.994	6.048	310.3E6	323.2E6	0.1090	0.0953	

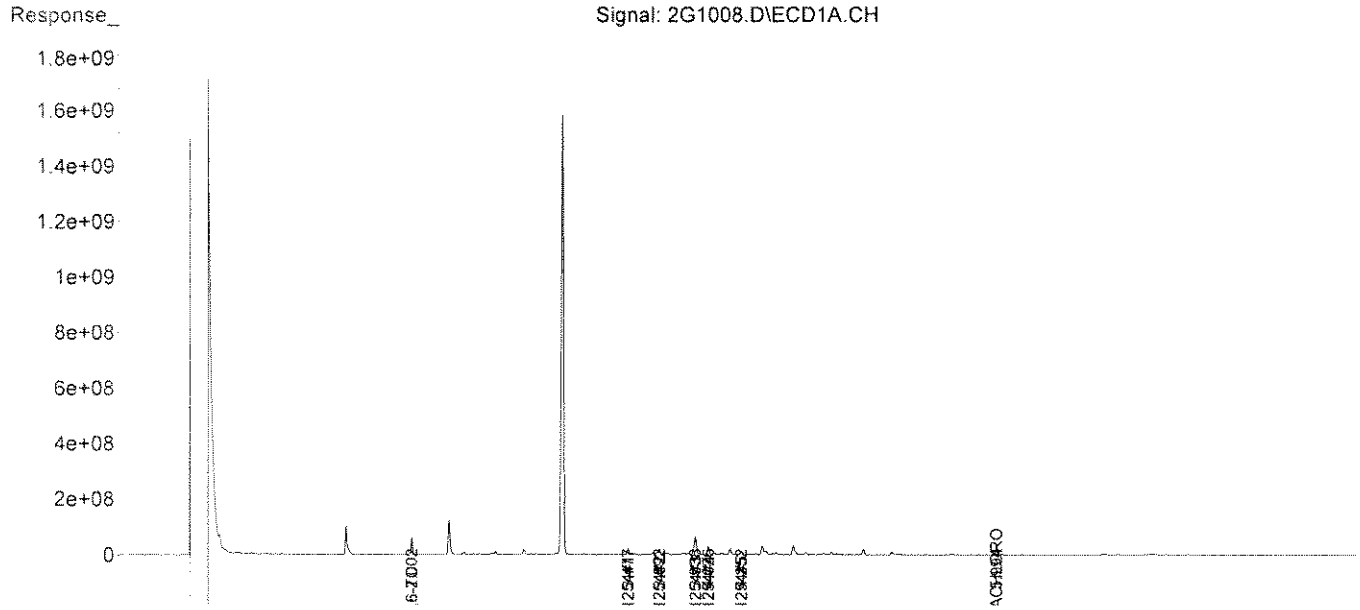
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

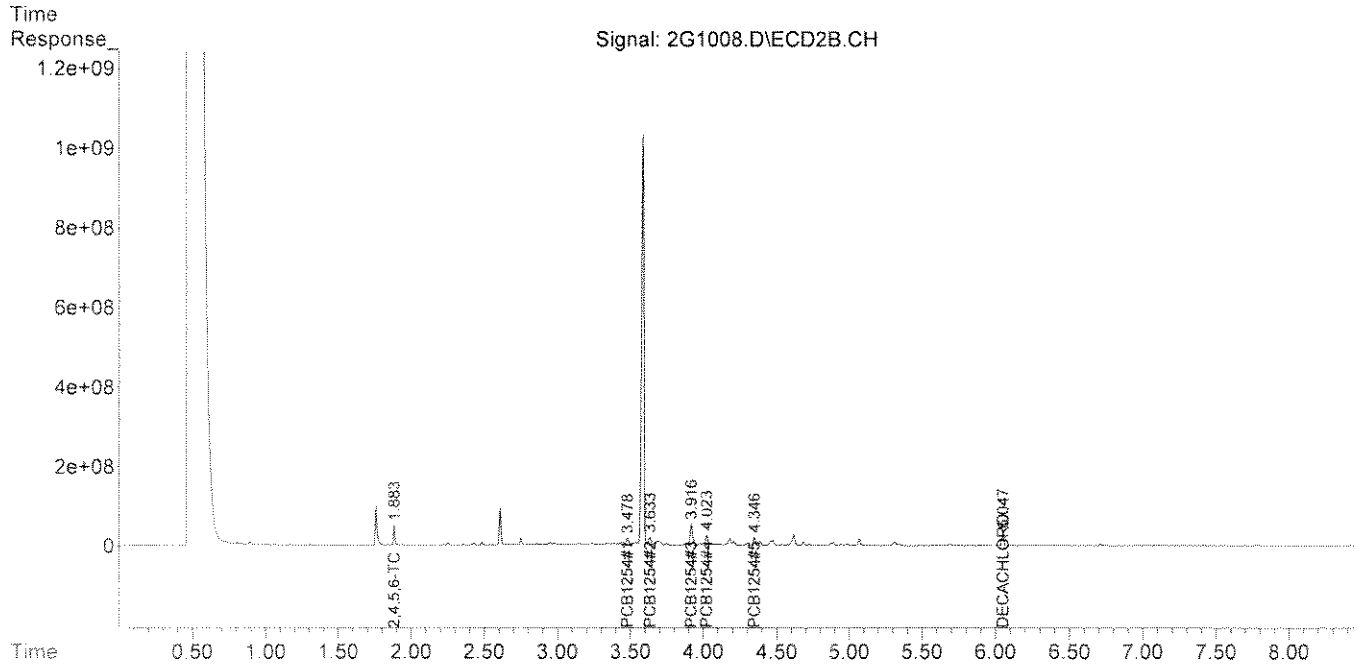
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 9:57
Operator : RC
Sample : A303499-22RE1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:33:10 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:31:26 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 10:09
Operator : RC
Sample : AA24775-CCV2
Misc : AA24776-CCV1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:25:58 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 11:25:53 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	2.007	1.888	614.9E6	500.7E6	0.0964	0.0986
2)	PCB1016#1	2.233	2.173	92731995	79623239	0.7827	0.7470
3)	PCB1016#2	2.462	2.419	190.3E6	170.0E6	0.8407	0.8530
4)	PCB1016#3	2.783	2.952	264.2E6	79952681	0.8818	0.8787
5)	PCB1016#4	2.877	2.984	167.4E6	84933403	0.8268	0.8636
6)	PCB1016#5	2.923	3.013	101.4E6	67329474	0.8262	0.7547
7)	PCB1260#6	4.180	4.186	257.0E6	238.1E6	0.8615	0.8383
8)	PCB1260#7	4.398	4.351	384.8E6	282.9E6	0.8812	0.9211
9)	PCB1260#8	4.693	4.685	236.4E6	216.7E6	0.8754	0.8966
10)	PCB1260#9	4.872	4.895	246.4E6	236.9E6	0.8292	0.8939
11)	PCB1260#10	5.090	5.071	562.6E6	530.0E6	0.8883	0.9839
12)	DECACHLOR...	5.997	6.051	398.2E6	407.4E6	0.1041	0.1089

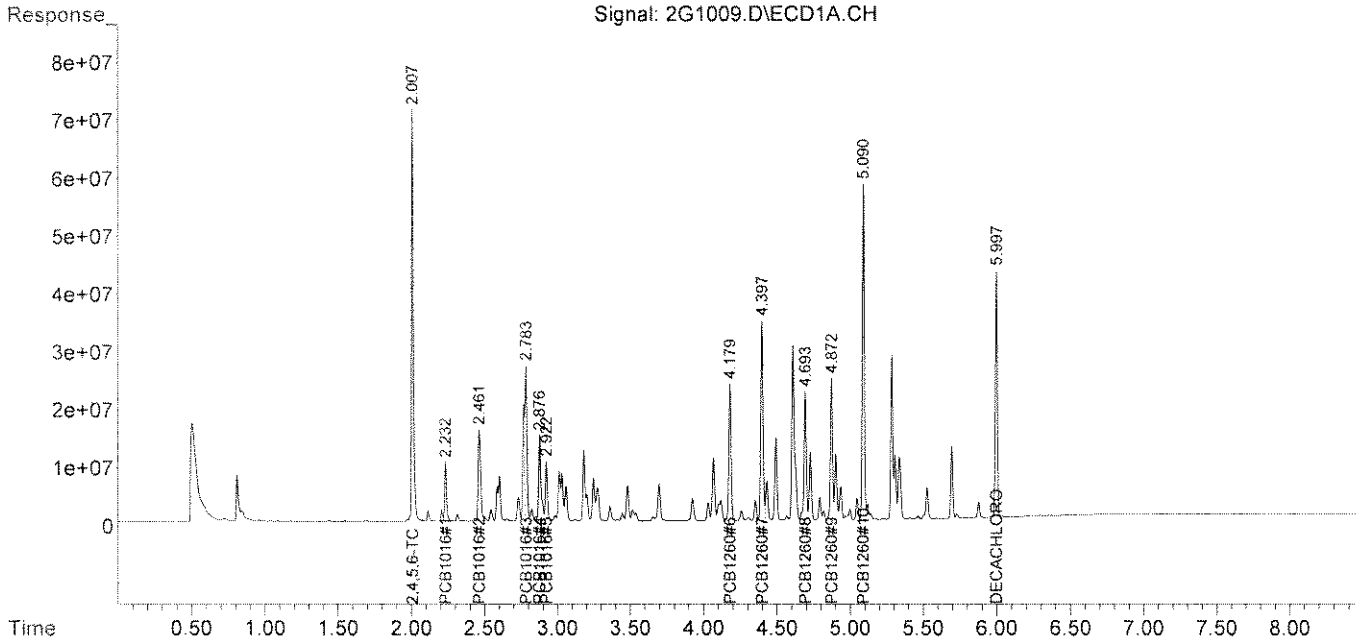
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

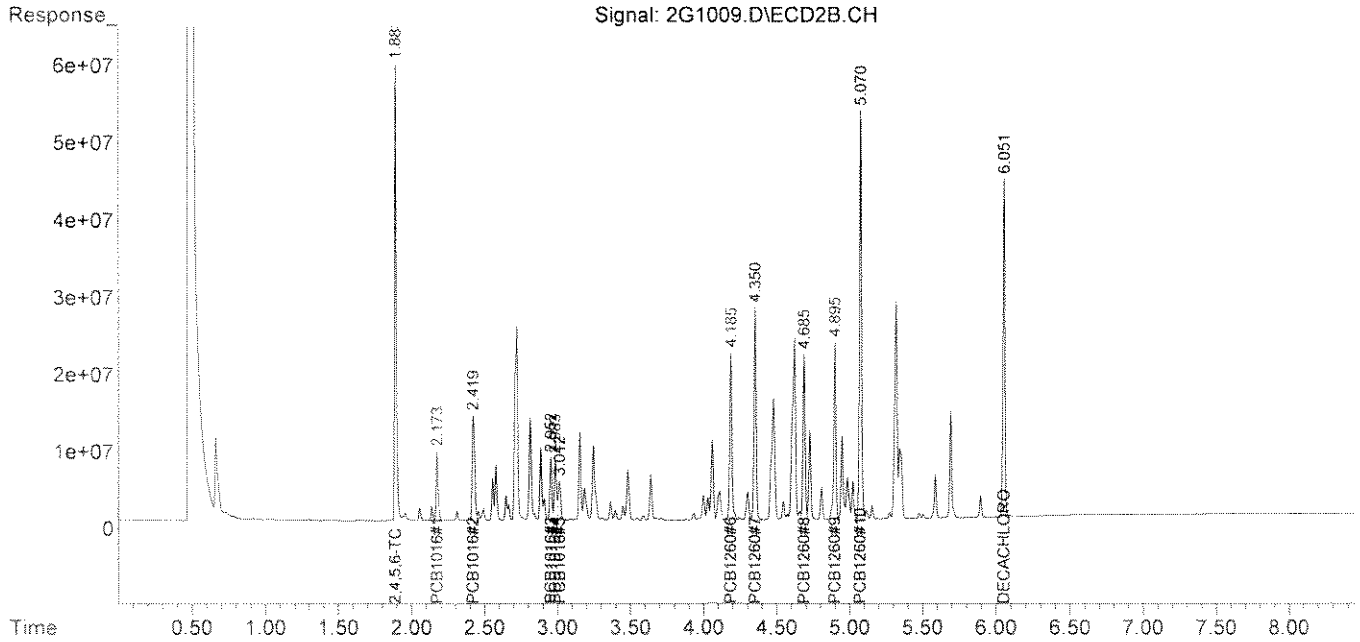
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 10:09
Operator : RC
Sample : AA24775-CCV2
Misc : AA24776-CCV1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:25:58 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Mon Jul 01 11:25:53 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 10:21
Operator : RC
Sample : AA24775-ARC2
Misc : AA24776-ARC1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:31:33 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:31:26 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.010	1.891	629.9E6	504.1E6	0.1098	0.0747	#
2)	PCB1254#1	3.485	3.485	177.3E6	182.7E6	0.9860	0.7128	#
3)	PCB1254#2	3.700	3.642	318.0E6	208.0E6	1.0061	0.7527	#
4)	PCB1254#3	3.934	3.935	190.8E6	157.7E6	1.0024	0.7376	#
5)	PCB1254#4	4.034	4.031	334.0E6	305.1E6	1.0418	0.8382	
6)	PCB1254#5	4.258	4.353	246.5E6	136.2E6	1.0688	0.7591	#
7)	DECACHLOR...	5.999	6.052	401.4E6	402.0E6	0.1410	0.1208	

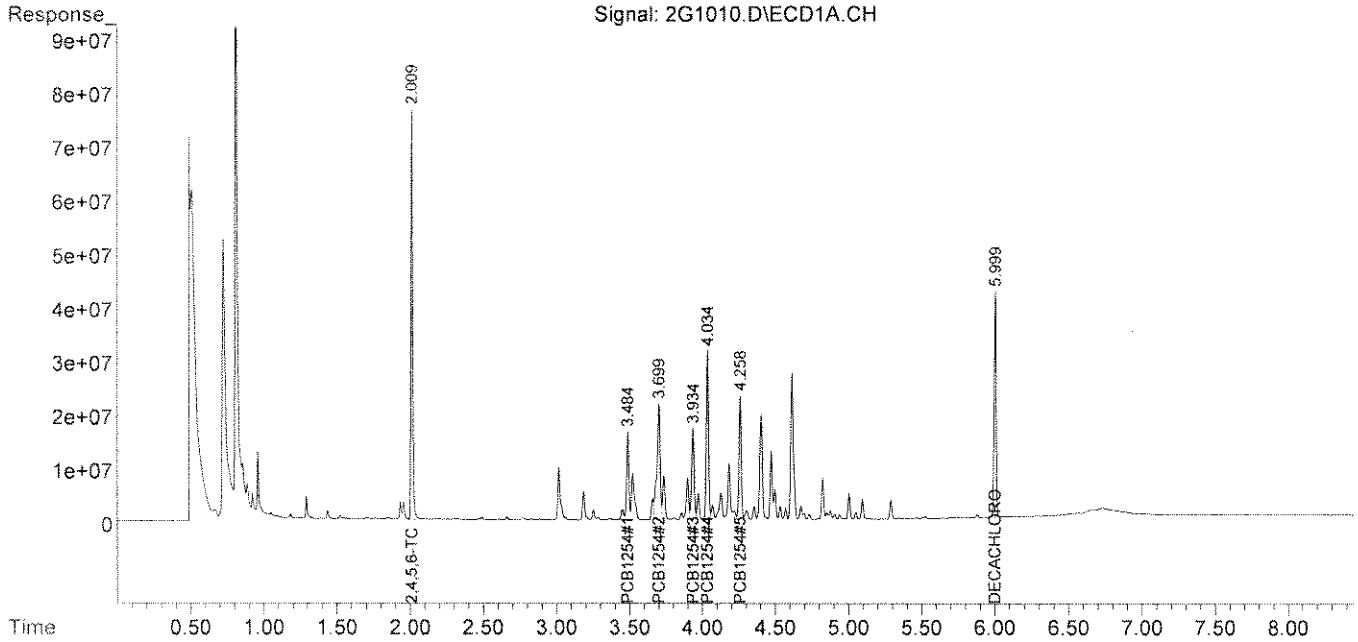
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

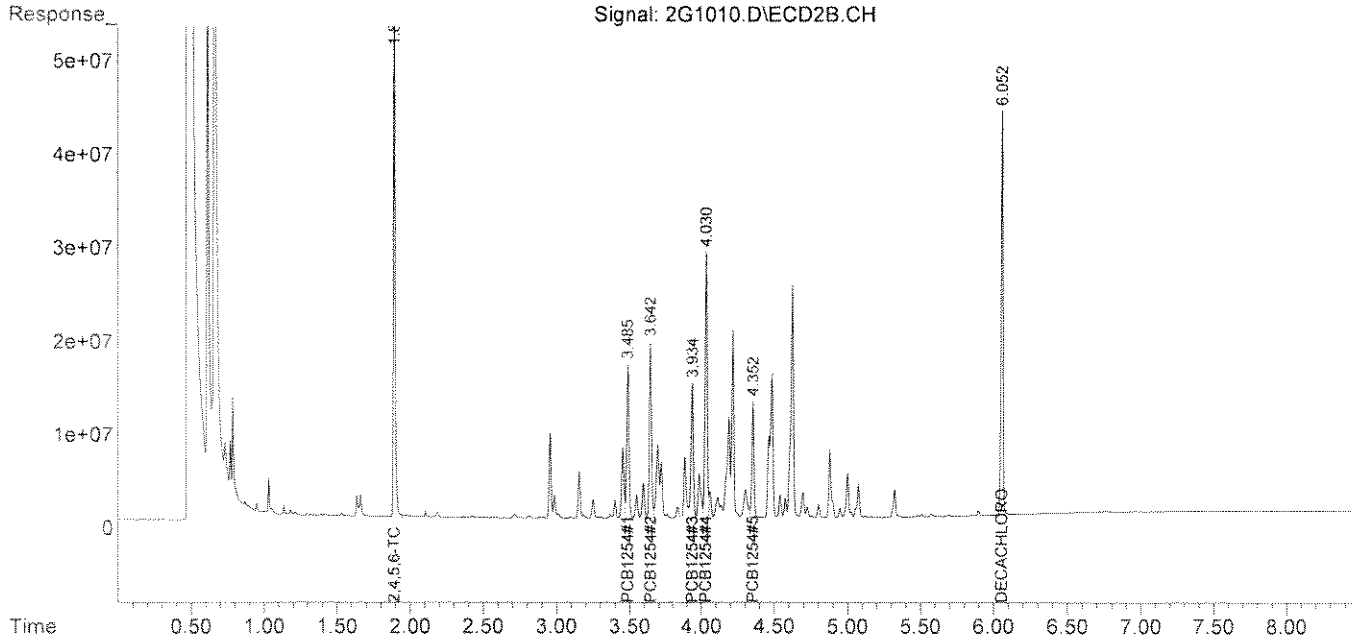
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2G113\
Data File : 2G1010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Jul 2013 10:21
Operator : RC
Sample : AA24775-ARC2
Misc : AA24776-ARC1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:31:33 2013
Quant Method : Y:\2\METHODS\PCB1254IN12.M
Quant Title : PCB; INST OSVGCECD2
QLast Update : Mon Jul 01 11:31:26 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





ANALYSIS SEQUENCE

AA24639

Instrument: OSVGCECD2

Calibration ID: 1306059

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA24639-CAL1	QC		1		A3F0327		
AA24639-CAL2	QC		2		A3F0326		
AA24639-CAL3	QC		3		A3F0325		
AA24639-CAL4	QC		4		A3F0324		
AA24639-CAL5	QC		5		A3F0323		
AA24639-CAL6	QC		6		A3F0322		
AA24639-SCV1	QC		7		A3F0328		

Samples Loaded By Date

Data Processed By Date

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 5:57
Operator : RC
Sample : AA24639-CAL1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:28:59 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	2.053	1.926	29021947	24952451	0.0061	0.0048
2)	PCB1016#1	2.282	2.214	6235985	6321695	0.0723	0.0667
3)	PCB1016#2	2.514	2.464	11136943	10693677	0.0666	0.0556
4)	PCB1016#3	2.841	3.007	12474044	5099802	0.0563	0.0571
5)	PCB1016#4	2.937	3.039	10104217	5382209	0.0663	0.0571
6)	PCB1016#5	2.984	3.069	5360265	4863562	0.0591	0.0581
7)	PCB1260#6	4.251	4.248	14261717	14753975	0.0587	0.0520
8)	PCB1260#7	4.467	4.412	20385239	15621309	0.0579	0.0505
9)	PCB1260#8	4.762	4.745	12487851	12000464	0.0569	0.0493
10)	PCB1260#9	4.941	4.955	12254388	12641926	0.0543	0.0466
11)	PCB1260#10	5.158	5.129	25612667	26186755	0.0544	0.0499
12)	DECACHLOR...	6.068	6.113	18490660	17731930	0.0055m	0.0045m

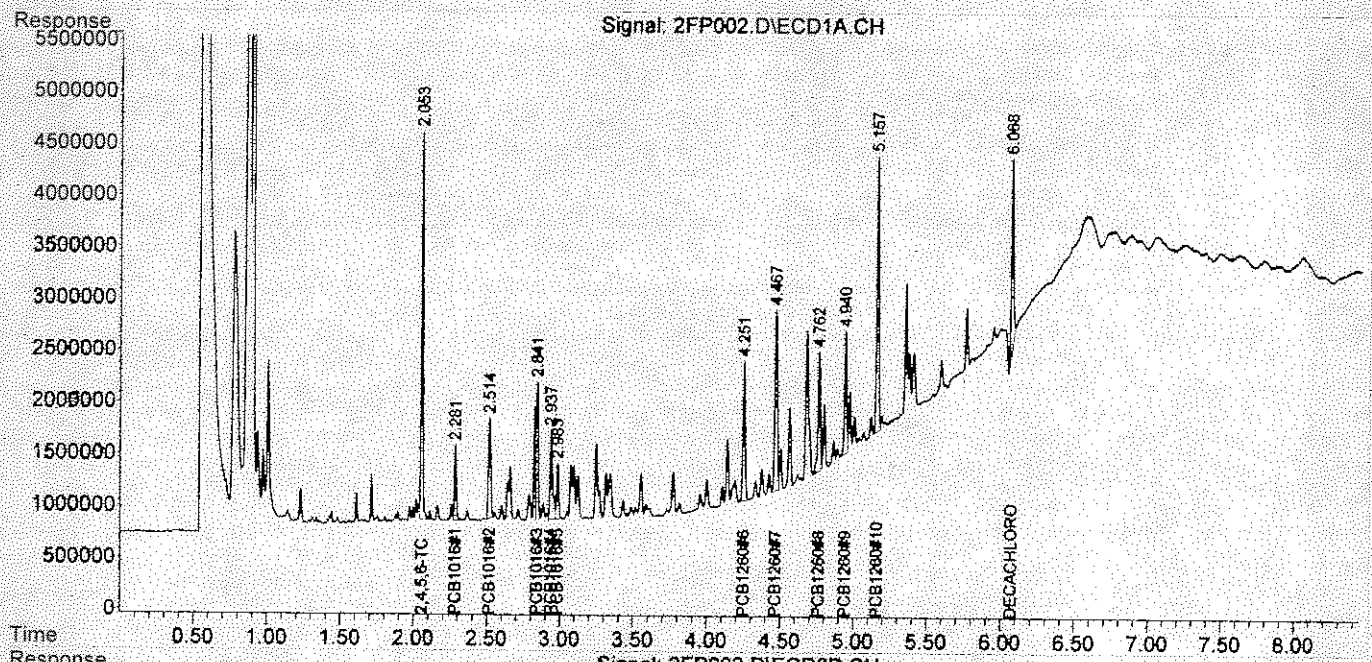
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

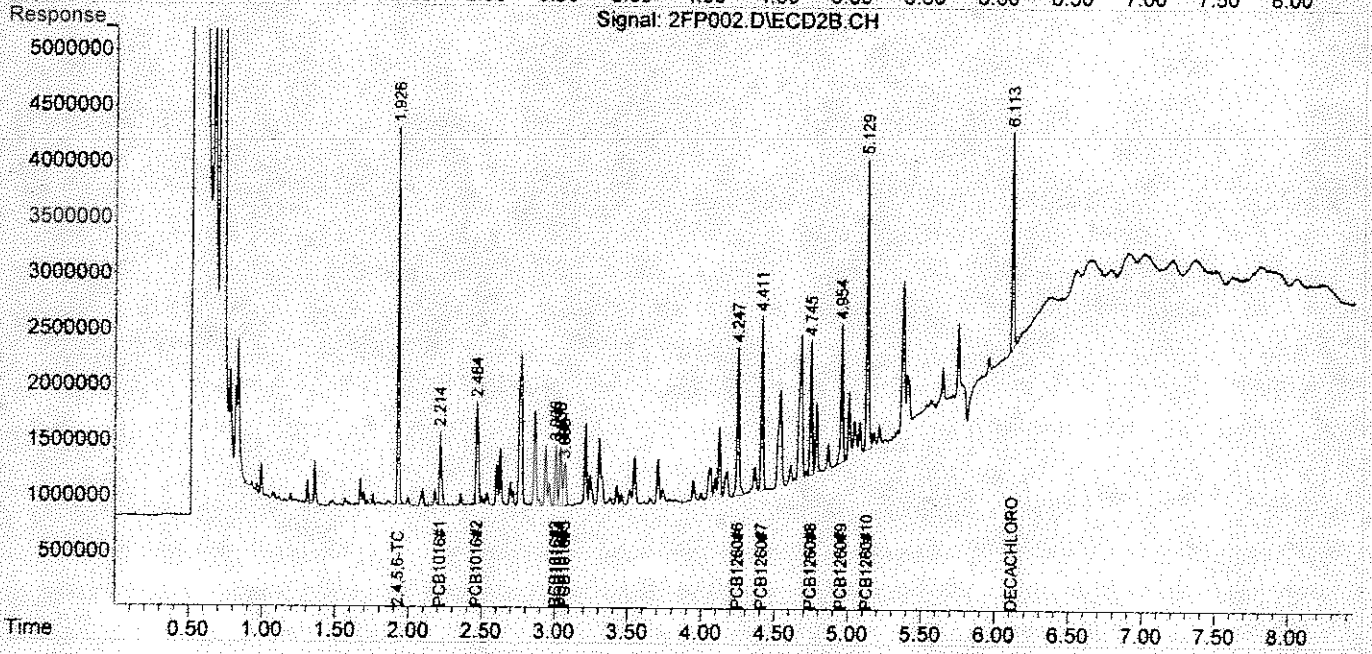
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 5:57
Operator : RC
Sample : AA24639-CAL1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:28:59 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



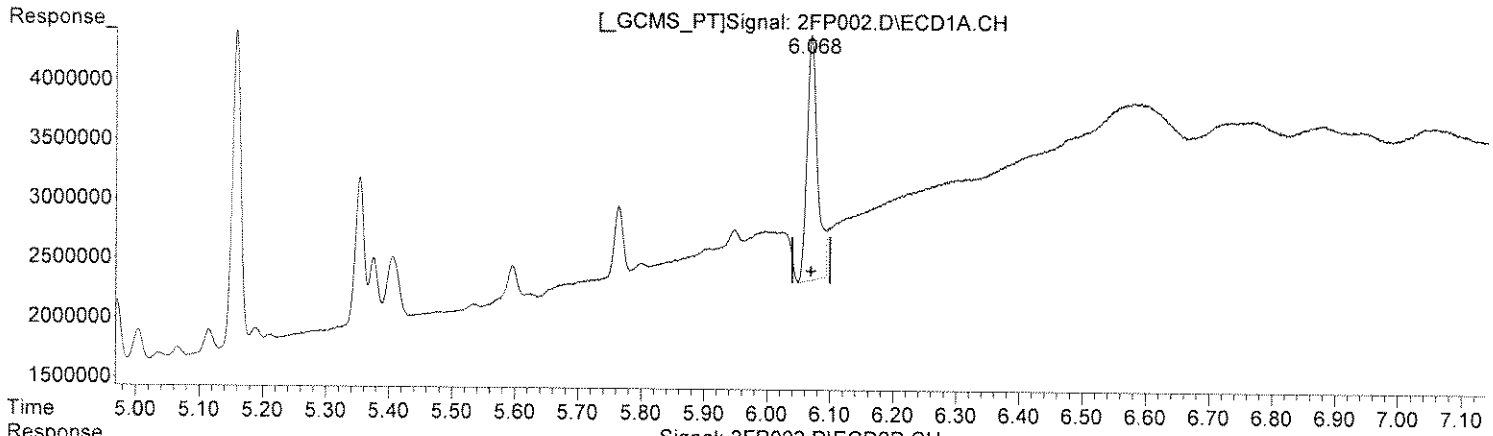


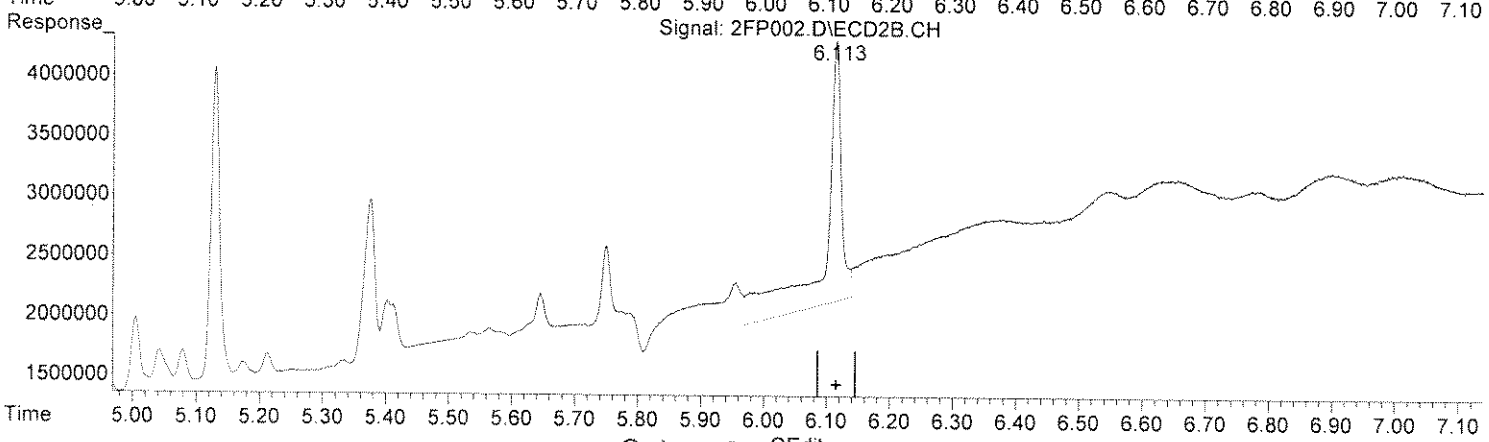
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 5:57
Operator : RC
Sample : AA24639-CAL1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:02 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QEdit

(12) DECACHLOROBIPHENYL
6.069min 0.007 ug/mL
response 23731235

(12) DECACHLOROBIPHENYL #2
6.113min 0.010 ug/mL
response 40331725

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 9/6/13
Review by/Date: 9/10/13

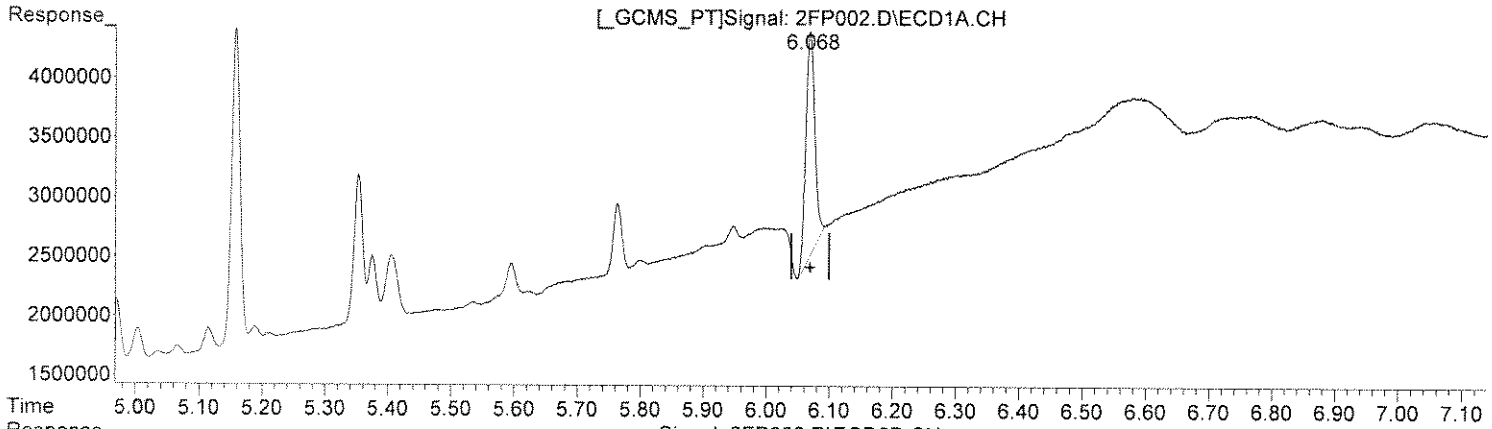
(+) = Expected Retention Time

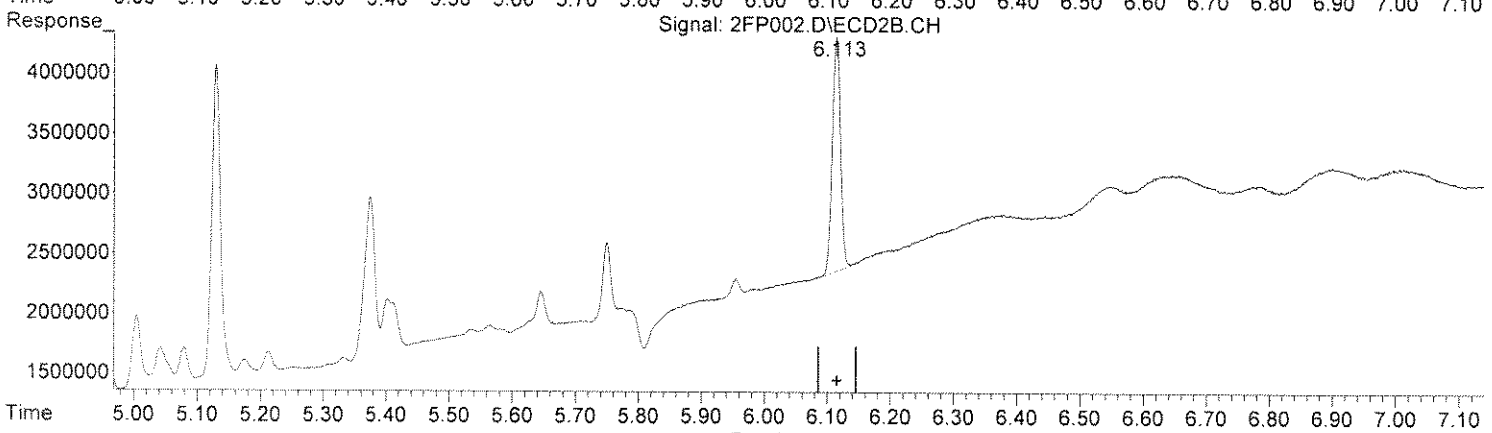
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 5:57
Operator : RC
Sample : AA24639-CAL1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:02 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(12) DECACHLOROBIPHENYL
6.068min 0.006 ug/mL m
response 18490660

(12) DECACHLOROBIPHENYL #2
6.113min 0.005 ug/mL m
response 17731930

Select One: QEdit
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 9 6/21/13
Review by/Date: RC 06/21/13

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:09
Operator : RC
Sample : AA24639-CAL2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:28:20 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	2.054	1.928	55350862	47415180	0.0117	0.0092
2)	PCB1016#1	2.283	2.216	11397990	10965138	0.1322	0.1157
3)	PCB1016#2	2.516	2.466	21551040	20159456	0.1289	0.1049
4)	PCB1016#3	2.842	3.009	23709146	9253251	0.1070	0.1035
5)	PCB1016#4	2.938	3.041	18547863	9874168	0.1217	0.1048
6)	PCB1016#5	2.985	3.072	9980805	9059923	0.1100	0.1083
7)	PCB1260#6	4.252	4.251	27051678	27378047	0.1113	0.0965
8)	PCB1260#7	4.469	4.414	38795577	29138915	0.1102	0.0942
9)	PCB1260#8	4.763	4.747	23882696	22523995	0.1088	0.0926
10)	PCB1260#9	4.942	4.957	23291787	24010785	0.1033	0.0885
11)	PCB1260#10	5.159	5.131	49320646	48149201	0.1047	0.0917
12)	DECACHLOR...	6.069	6.115	33919557	28591846	0.0101	0.0073m#

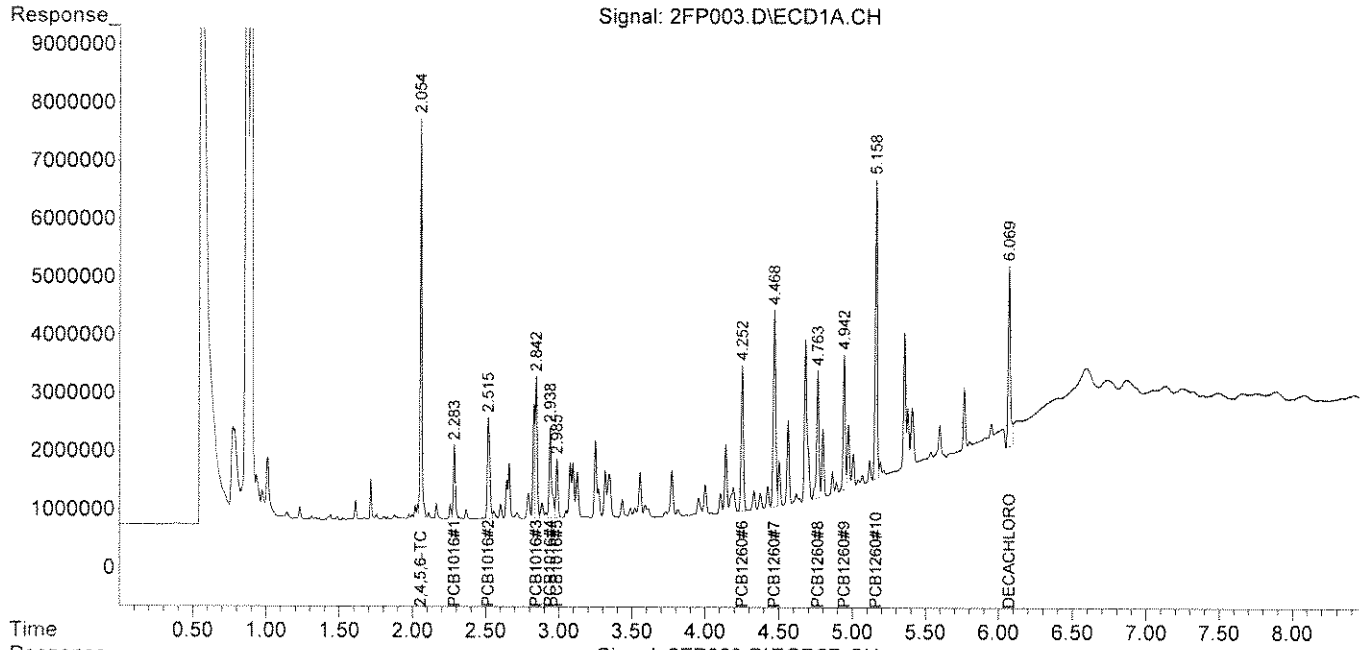
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

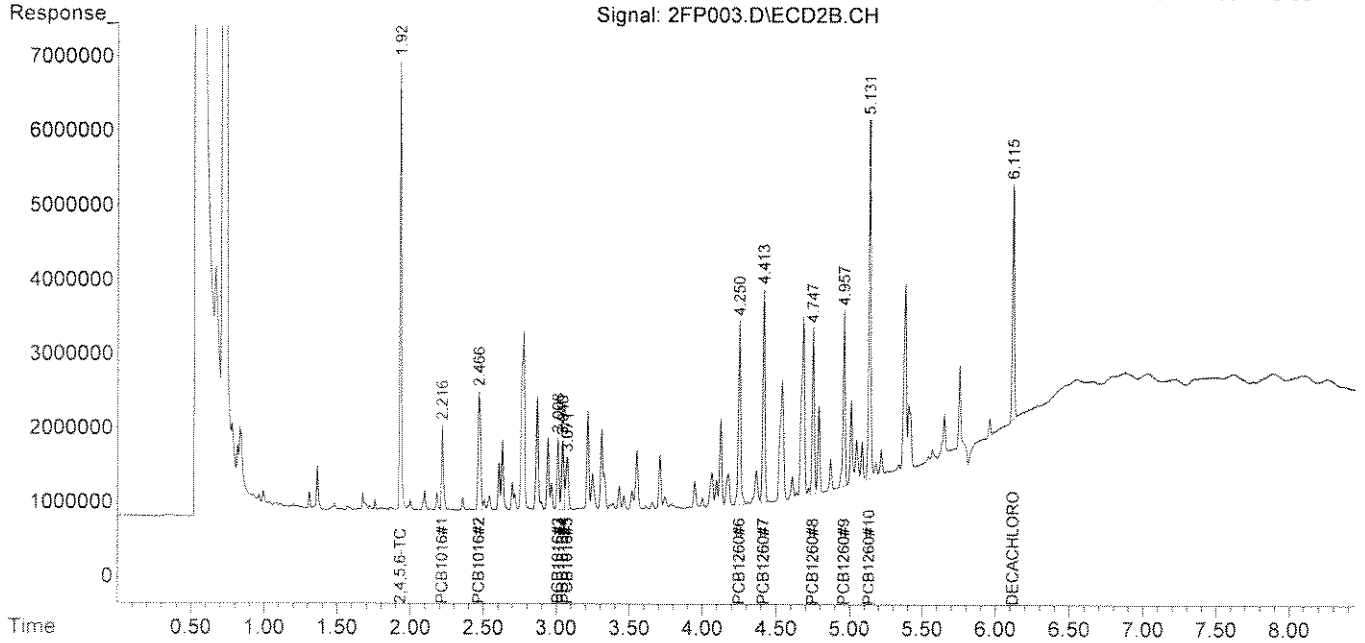
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:09
Operator : RC
Sample : AA24639-CAL2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:28:20 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



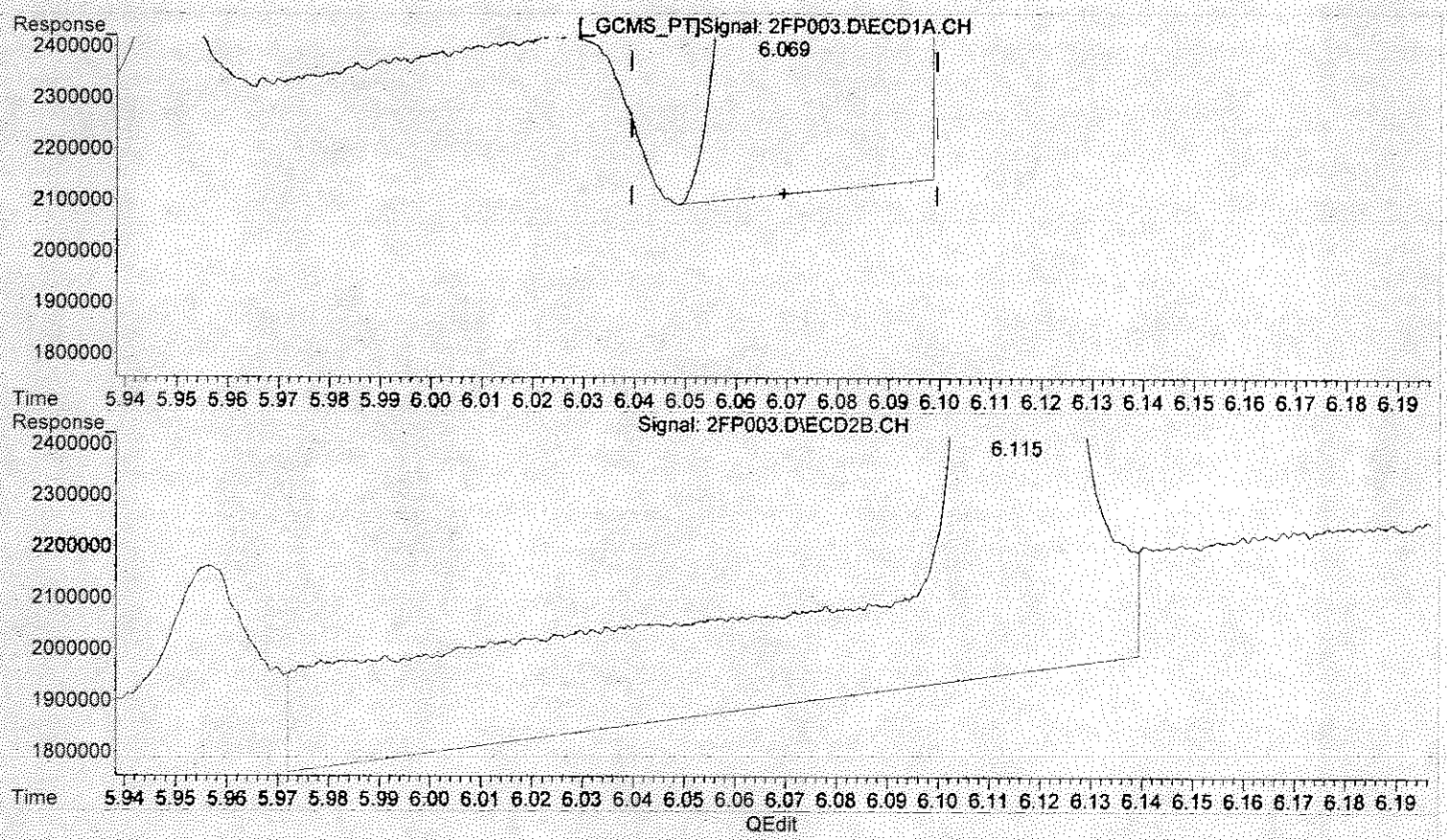


Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:09
Operator : RC
Sample : AA24639-CAL2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:05 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(12) DECACHLOROBIPHENYL
6.069min 0.010 ug/mL
response 33919557

(12) DECACHLOROBIPHENYL #2
6.115min 0.012 ug/mL
response 47154594

Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 7/6/2013
Review by/Date 7/8/2013

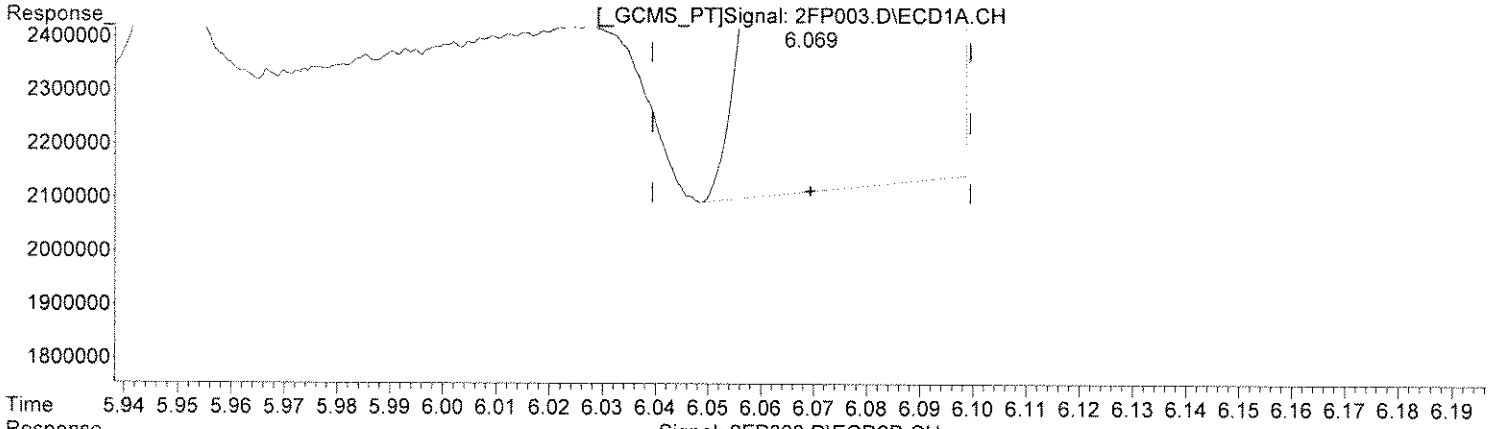
(+) = Expected Retention Time

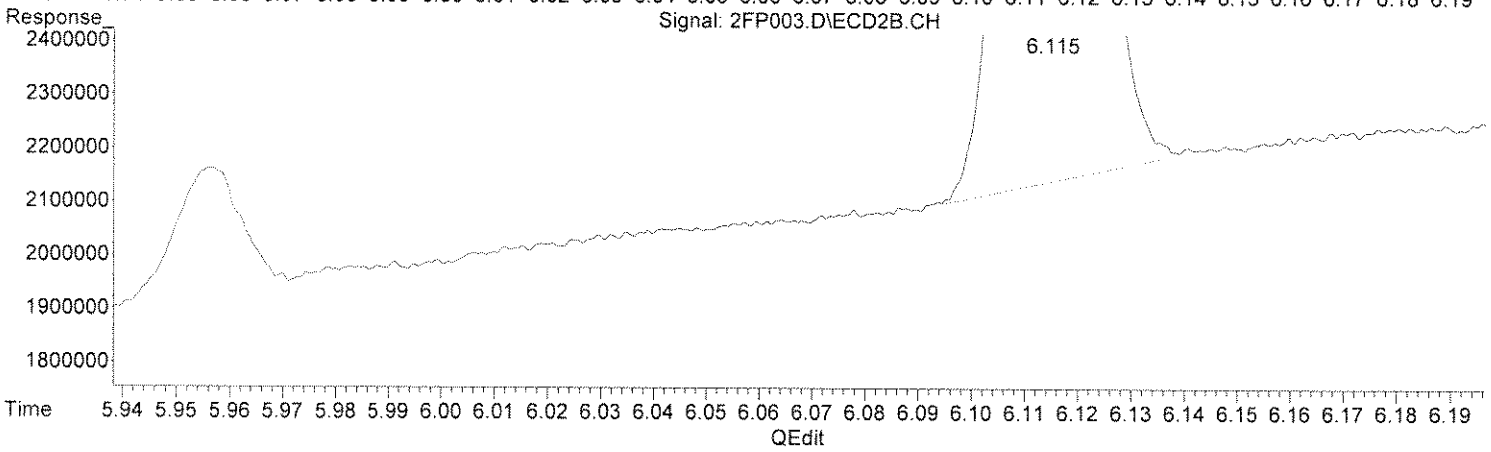
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:09
Operator : RC
Sample : AA24639-CAL2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:05 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(12) DECACHLOROBIPHENYL
6.069min 0.010 ug/mL
response 33919557

(12) DECACHLOROBIPHENYL #2
6.115min 0.007 ug/mL m
response 28591846

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline select...)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date A 6/21/13
Review by/Date: RC 6/21/13

(+) = Expected Retention Time
PCB2FP13.M Fri Jun 21 07:28:24 2013

Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:21
Operator : RC
Sample : AA24639-CAL3
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:08 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.056	1.929	315.9E6	256.6E6	0.0666	0.0496	#
2)	PCB1016#1	2.284	2.217	56225083	50595900	0.6519	0.5338	
3)	PCB1016#2	2.517	2.468	108.0E6	96423520	0.6461	0.5018	
4)	PCB1016#3	2.844	3.010	132.9E6	43296248	0.5993	0.4845	
5)	PCB1016#4	2.939	3.042	95578540	46951236	0.6271	0.4985	
6)	PCB1016#5	2.986	3.073	53422157	44234786	0.5886	0.5287	
7)	PCB1260#6	4.253	4.252	143.2E6	138.5E6	0.5893	0.4883	
8)	PCB1260#7	4.469	4.415	209.7E6	148.4E6	0.5956	0.4797	
9)	PCB1260#8	4.764	4.748	128.9E6	116.9E6	0.5872	0.4806	
10)	PCB1260#9	4.943	4.958	131.2E6	128.7E6	0.5818	0.4743	
11)	PCB1260#10	5.159	5.132	283.9E6	263.3E6	0.6030	0.5014	
12)	DECACHLOR...	6.069	6.114	148.5E6	157.3E6	0.0443	0.0403	

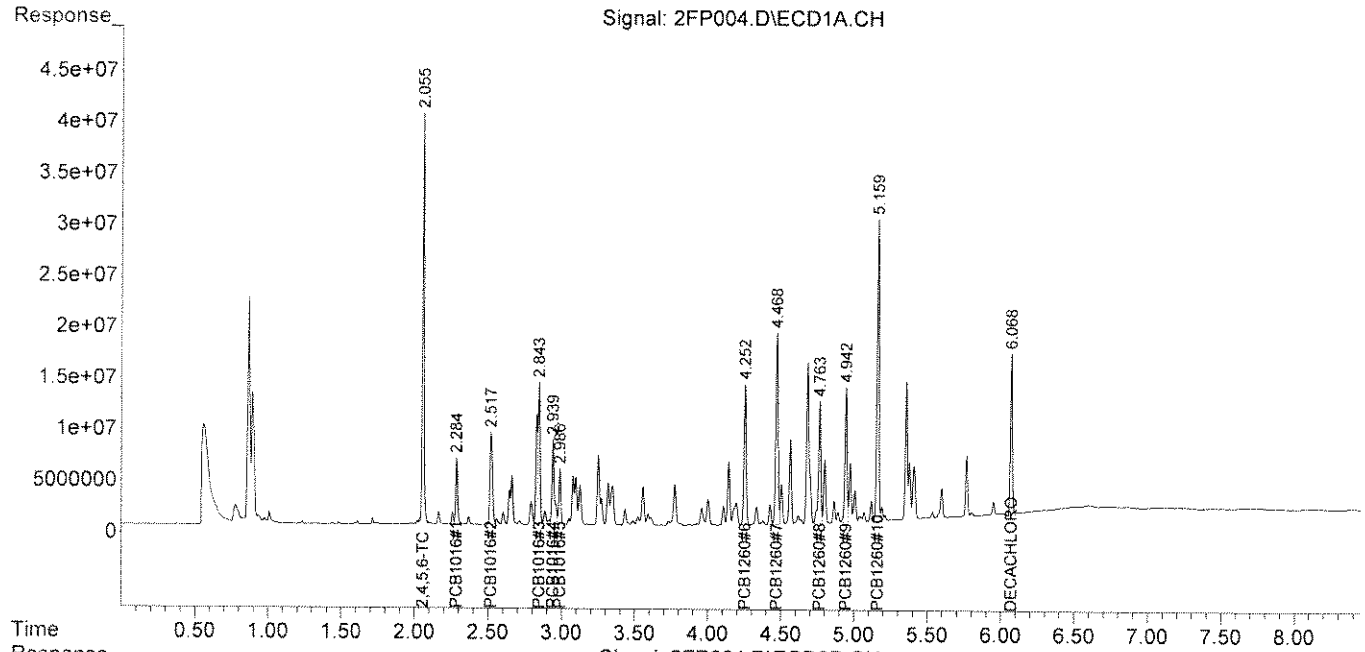
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

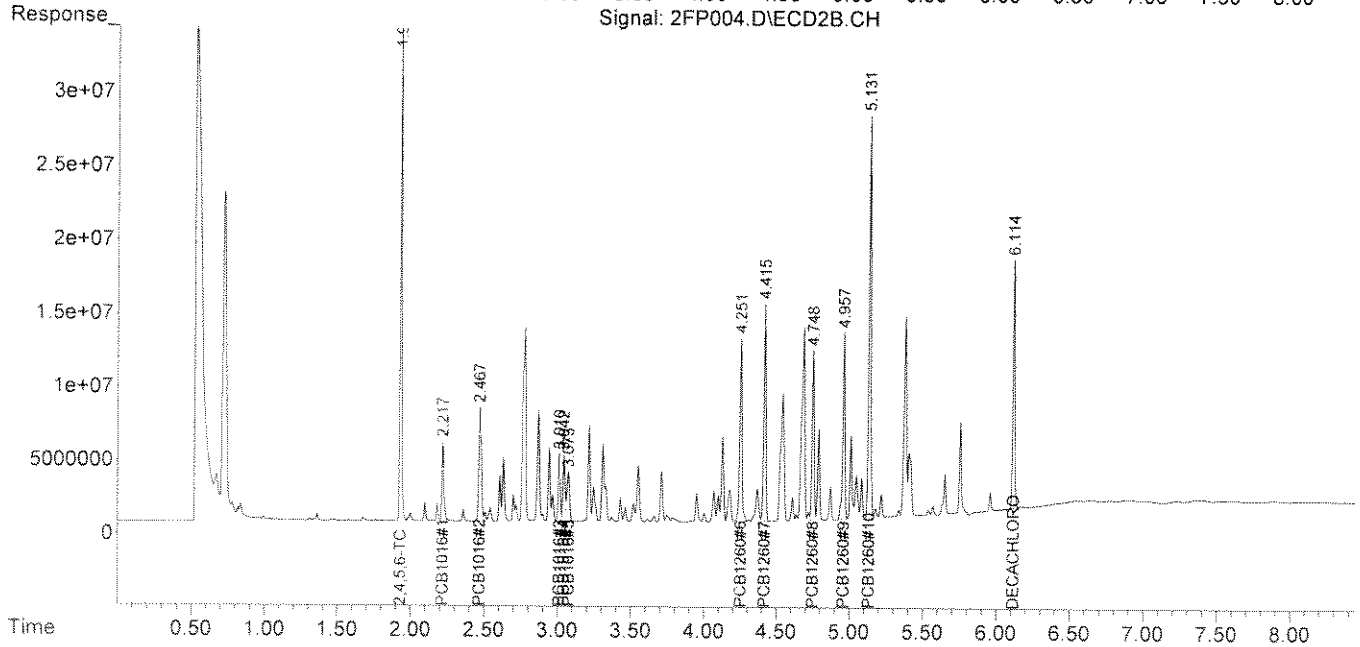
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:21
Operator : RC
Sample : AA24639-CAL3
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:08 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:33
Operator : RC
Sample : AA24639-CAL4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:11 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.056	1.931	683.5E6	536.0E6	0.1441	0.1036	#
2)	PCB1016#1	2.285	2.219	116.9E6	101.2E6	1.3556	1.0673	
3)	PCB1016#2	2.518	2.469	226.0E6	194.5E6	1.3516	1.0121	#
4)	PCB1016#3	2.844	3.011	290.4E6	87442551	1.3099	0.9785	#
5)	PCB1016#4	2.940	3.043	202.2E6	95152610	1.3268	1.0103	
6)	PCB1016#5	2.987	3.074	117.0E6	87099787	1.2886	1.0410	
7)	PCB1260#6	4.253	4.253	304.7E6	286.3E6	1.2537	1.0094	
8)	PCB1260#7	4.470	4.416	453.4E6	312.8E6	1.2875	1.0109	
9)	PCB1260#8	4.765	4.749	278.0E6	247.1E6	1.2662	1.0160	
10)	PCB1260#9	4.943	4.959	287.7E6	274.8E6	1.2756	1.0131	
11)	PCB1260#10	5.160	5.133	631.1E6	572.0E6	1.3404	1.0894	
12)	DECACHLOR...	6.070	6.116	364.1E6	368.2E6	0.1086	0.0942	

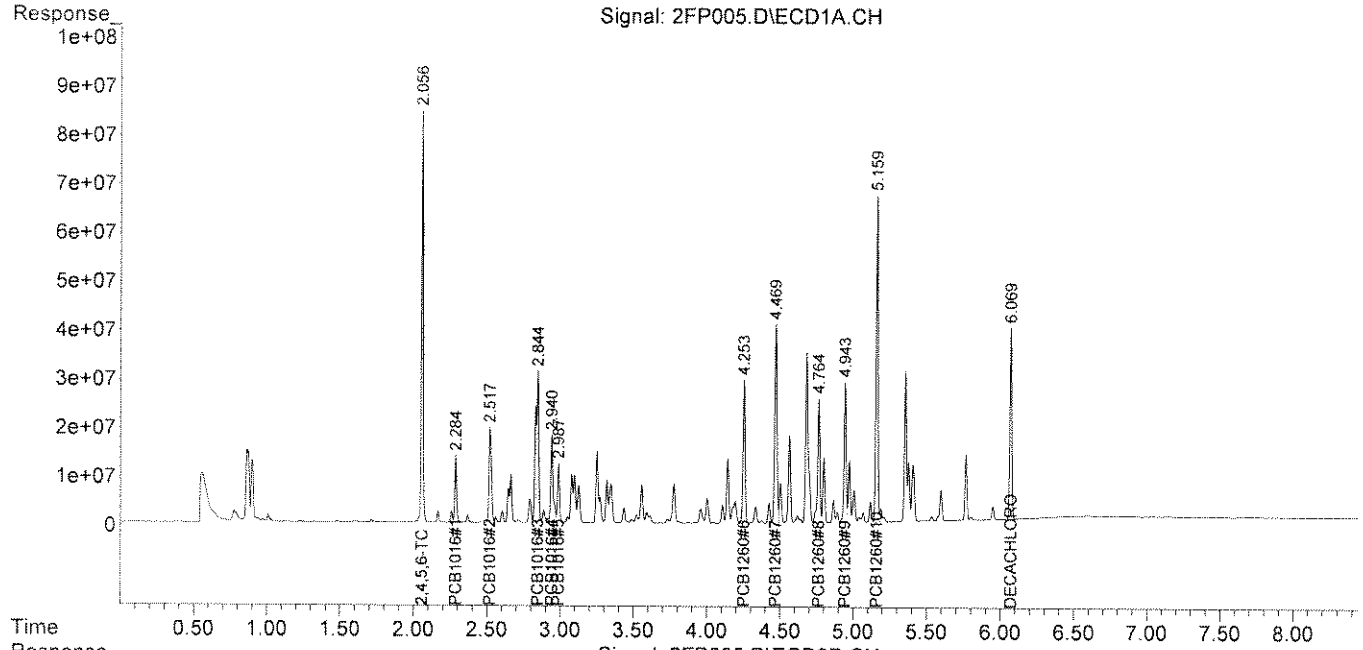
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

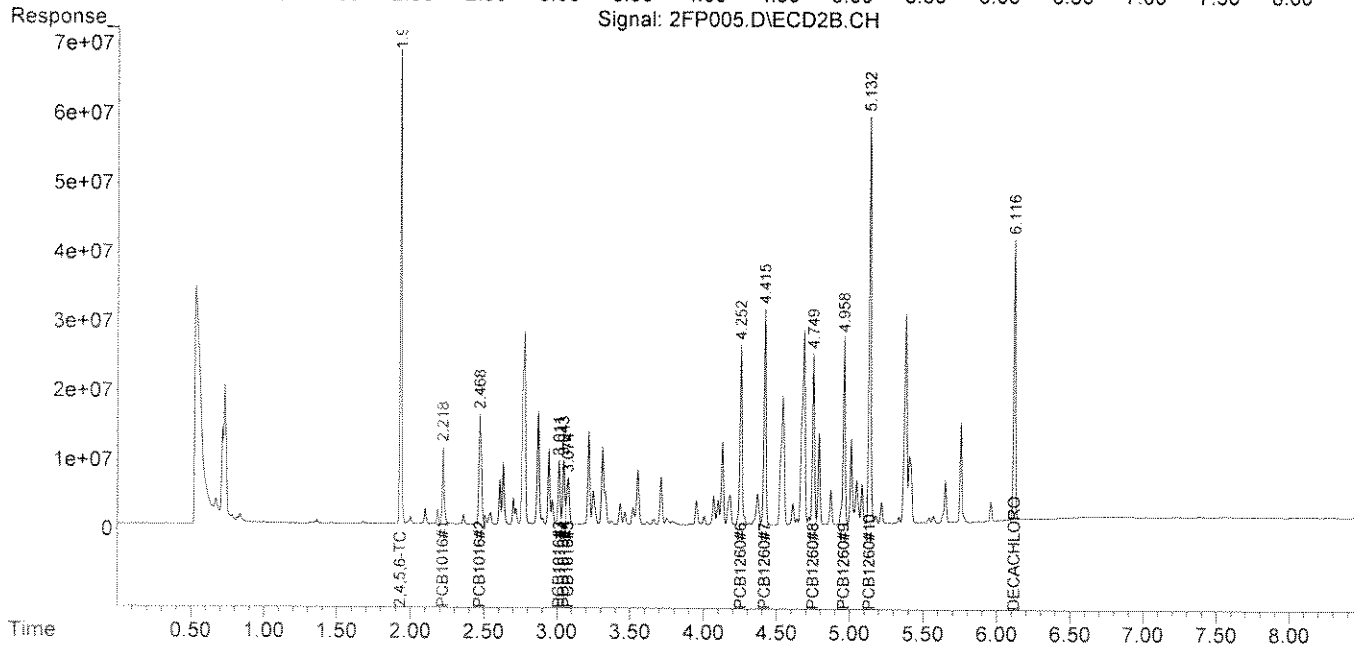
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:33
Operator : RC
Sample : AA24639-CAL4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:11 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:45
Operator : RC
Sample : AA24639-CAL5
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:14 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.057	1.931	1394.9E6	1051.9E6	0.2940	0.2034	#
2)	PCB1016#1	2.285	2.219	239.0E6	199.8E6	2.7713	2.1080	
3)	PCB1016#2	2.518	2.469	470.6E6	391.6E6	2.8142	2.0377	#
4)	PCB1016#3	2.845	3.012	610.3E6	175.7E6	2.7531	1.9655	#
5)	PCB1016#4	2.941	3.044	424.7E6	192.5E6	2.7864	2.0437	#
6)	PCB1016#5	2.988	3.075	249.9E6	172.6E6	2.7537	2.0623	#
7)	PCB1260#6	4.254	4.253	634.8E6	574.3E6	2.6114	2.0244	
8)	PCB1260#7	4.470	4.417	941.5E6	630.3E6	2.6737	2.0372	
9)	PCB1260#8	4.765	4.750	584.5E6	503.4E6	2.6621	2.0697	
10)	PCB1260#9	4.944	4.959	607.9E6	562.3E6	2.6955	2.0727	
11)	PCB1260#10	5.160	5.133	1297.0E6	1141.4E6	2.7546	2.1737	
12)	DECACHLOR...	6.070	6.117	740.5E6	732.6E6	0.2209	0.1875	

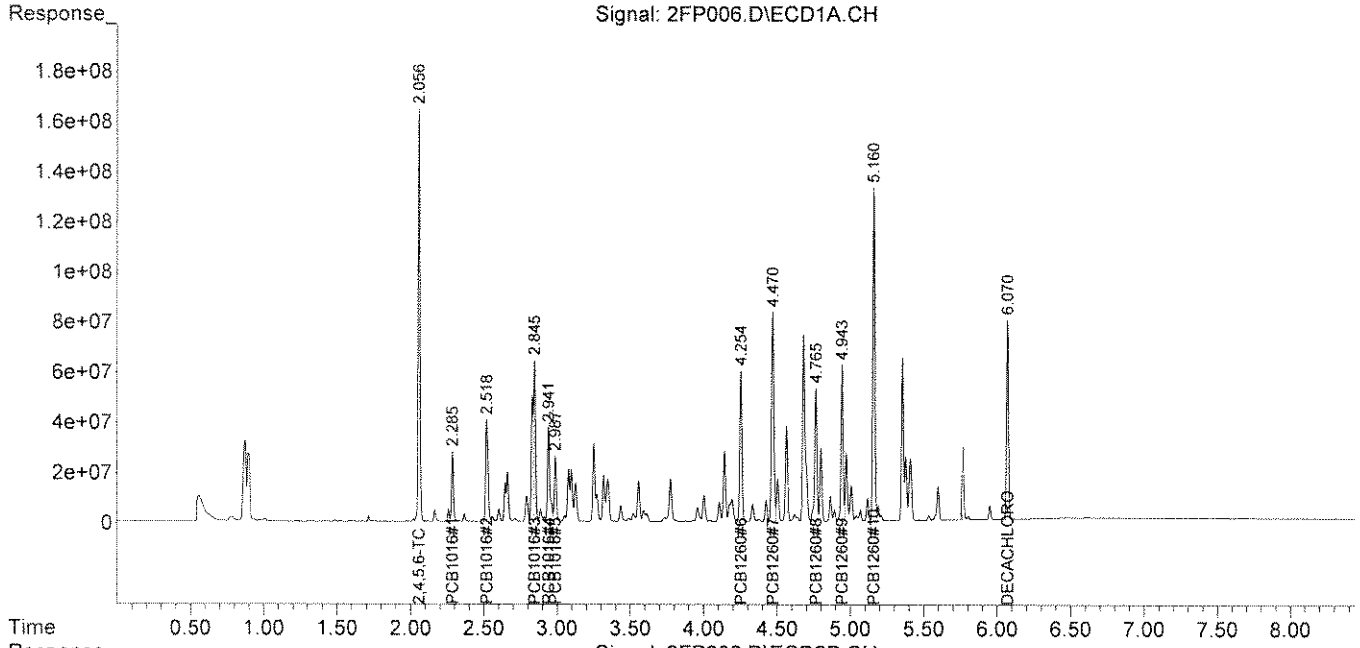
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

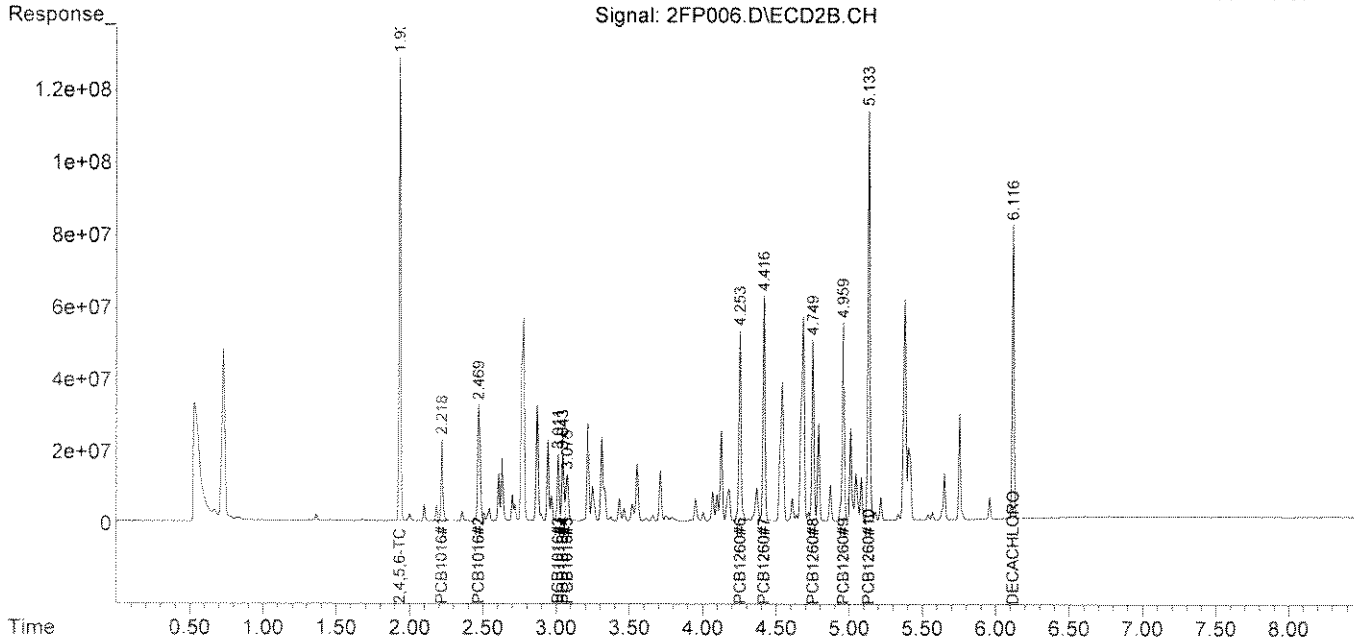
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:45
Operator : RC
Sample : AA24639-CAL5
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:14 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:57
Operator : RC
Sample : AA24639-CAL6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:17 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	Target Compounds							
1)	2,4,5,6-TCMX	2.057	1.931	2723.8E6	1997.5E6	0.5742	0.3863	#
2)	PCB1016#1	2.286	2.220	493.0E6	404.6E6	5.7165	4.2687	#
3)	PCB1016#2	2.519	2.470	970.4E6	789.4E6	5.8029	4.1078	#
4)	PCB1016#3	2.846	3.012	1267.7E6	358.2E6	5.7184	4.0076	#
5)	PCB1016#4	2.942	3.045	885.7E6	393.8E6	5.8111	4.1808	#
6)	PCB1016#5	2.988	3.075	534.3E6	342.2E6	5.8869	4.0896	#
7)	PCB1260#6	4.254	4.254	1302.8E6	1139.4E6	5.3599	4.0166	#
8)	PCB1260#7	4.470	4.417	1923.7E6	1257.7E6	5.4632	4.0650	#
9)	PCB1260#8	4.765	4.750	1214.3E6	1009.3E6	5.5303	4.1494	
10)	PCB1260#9	4.944	4.959	1273.0E6	1136.5E6	5.6443	4.1895	#
11)	PCB1260#10	5.160	5.134	2619.7E6	2231.0E6	5.5637	4.2489	
12)	DECACHLOR...	6.070	6.116	1669.0E6	1583.8E6	0.4979	0.4053	

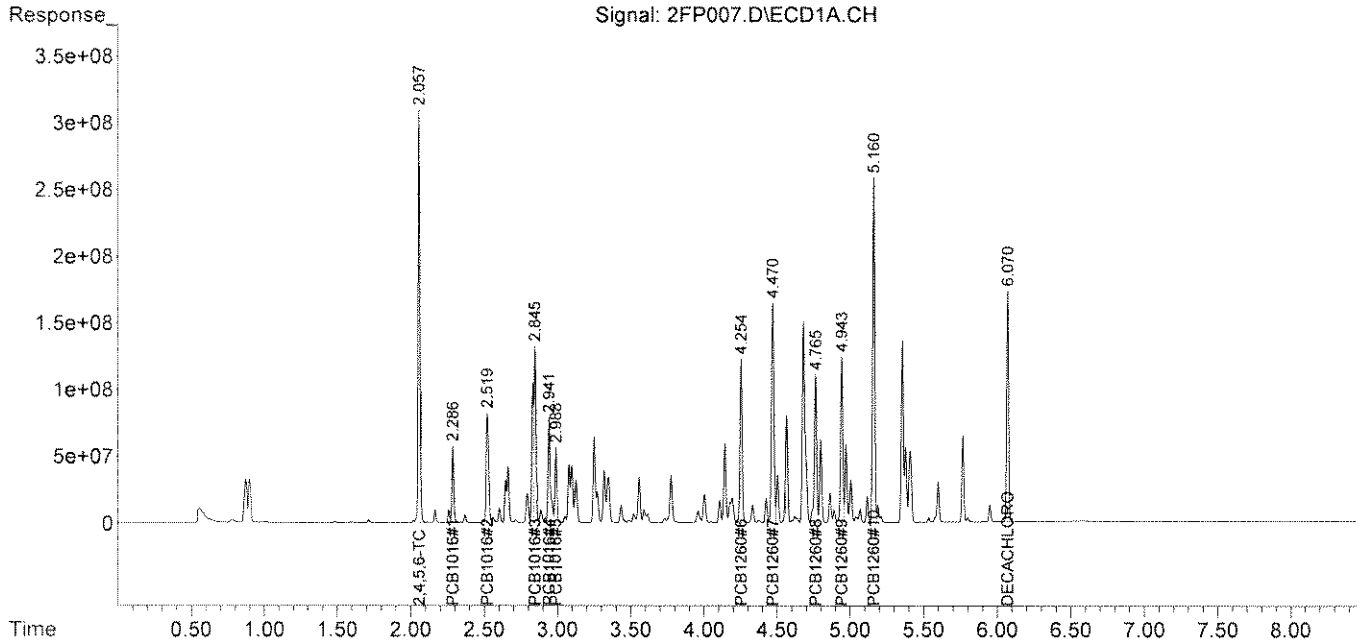
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

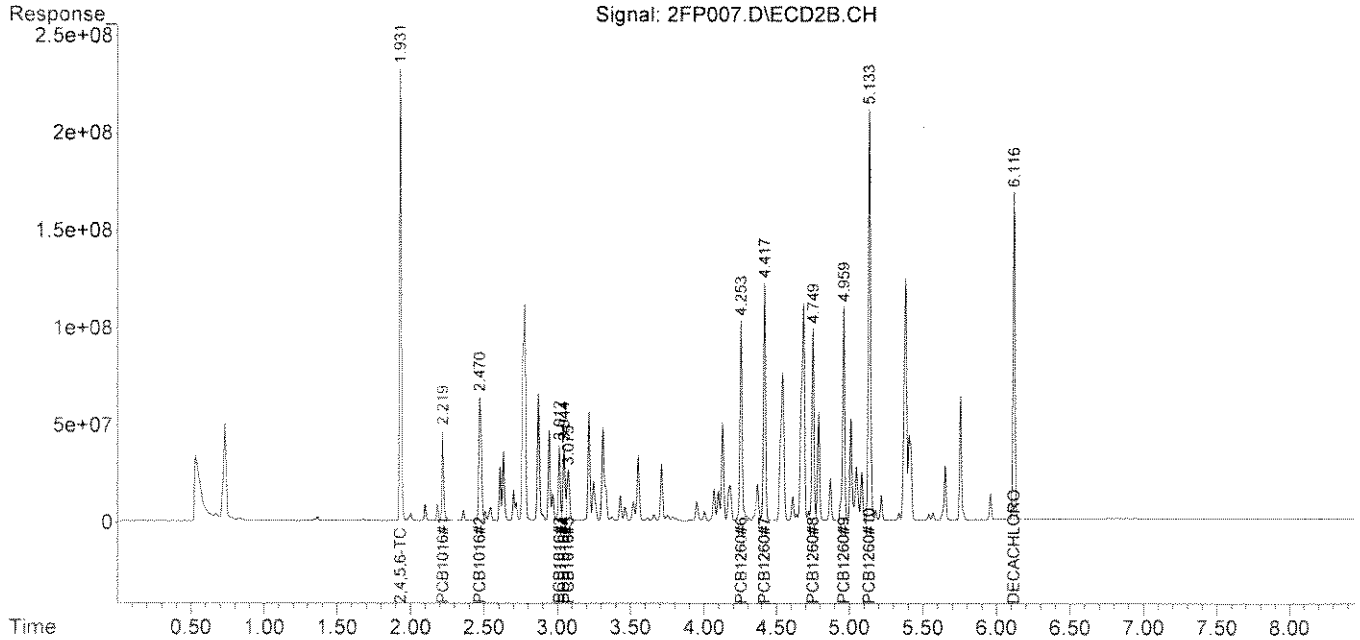
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 6:57
Operator : RC
Sample : AA24639-CAL6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:21:17 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:20:39 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 7:35
Operator : RC
Sample : AA24639-SCV1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:45:43 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:31:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1)	2,4,5,6-TCMX	2.064	1.931	1396.6E6	1092.2E6	0.2189m	0.2150
2)	PCB1016#1	2.293	2.219	216.6E6	186.1E6	1.8285	1.7460
3)	PCB1016#2	2.527	2.469	473.1E6	398.7E6	2.0899	2.0002
4)	PCB1016#3	2.854	3.012	616.8E6	185.3E6	1.9875m	2.0366
5)	PCB1016#4	2.950	3.044	423.9E6	198.7E6	2.0937	2.0199
6)	PCB1016#5	2.998	3.074	252.7E6	171.3E6	1.9529	1.9203
7)	PCB1260#6	4.264	4.253	651.7E6	576.1E6	2.1844	2.0281
8)	PCB1260#7	4.480	4.417	1005.9E6	658.9E6	2.3034	2.1451
9)	PCB1260#8	4.773	4.750	516.8E6	447.6E6	1.9138	1.8517
10)	PCB1260#9	4.952	4.959	553.5E6	535.5E6	1.7878	2.0204
11)	PCB1260#10	5.168	5.134	1188.3E6	1059.2E6	1.8364	1.9662
12)	DECACHLOR...	6.079	6.120	806.2E6	817.4E6	0.2018	0.2121

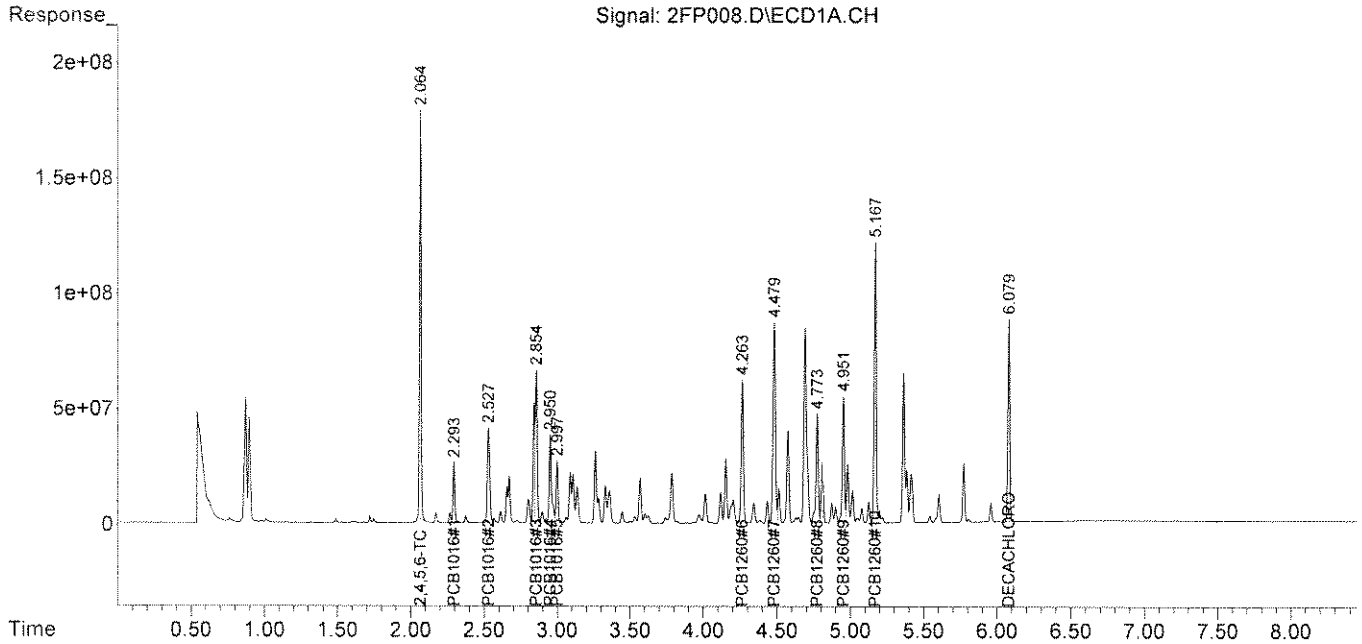
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

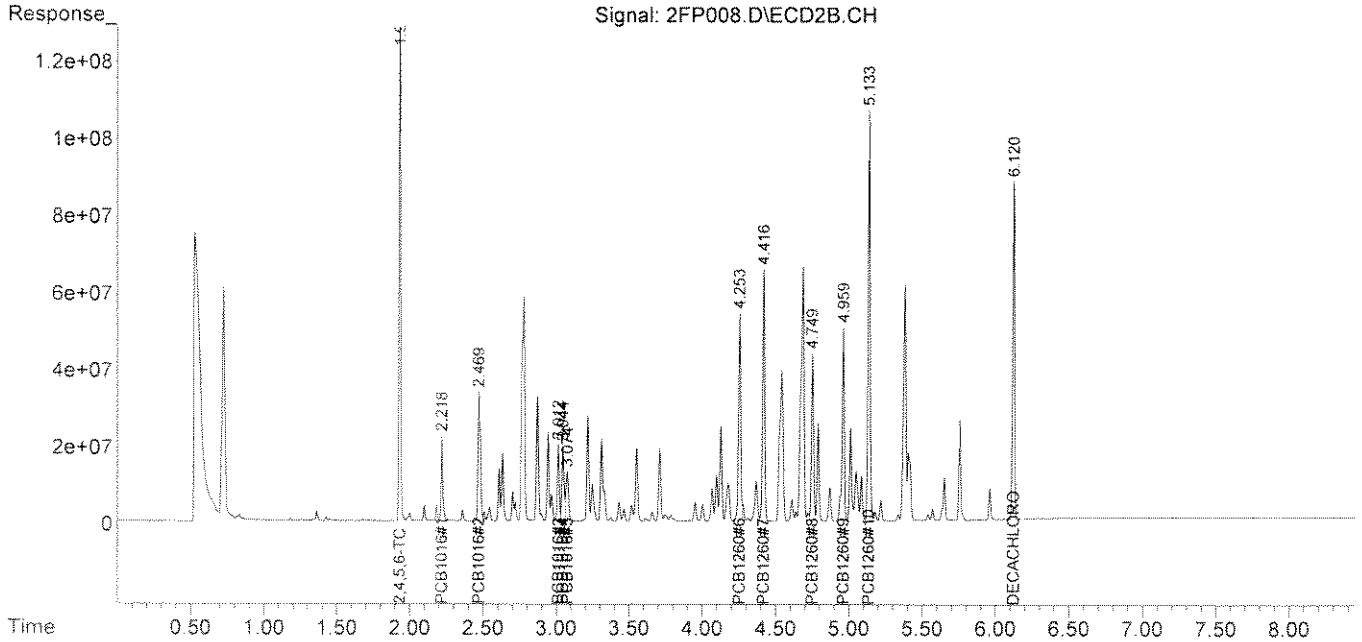
Quantitation Report (QT Reviewed)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 7:35
Operator : RC
Sample : AA24639-SCV1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:45:43 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:31:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



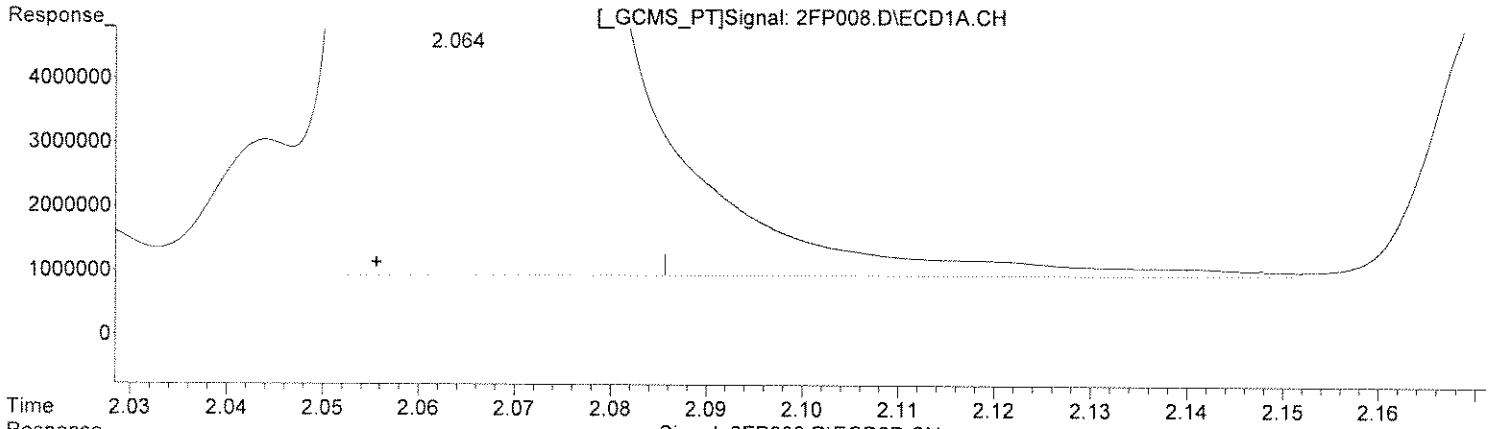


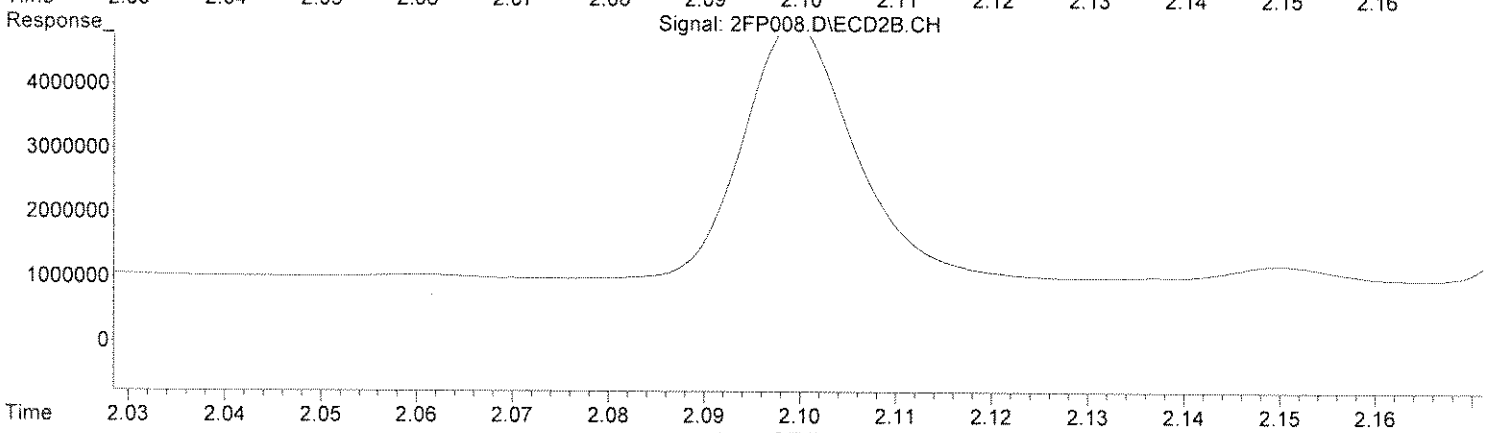
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 7:35
Operator : RC
Sample : AA24639-SCV1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:44:38 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:31:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) 2,4,5,6-TCMX
2.064min 0.226 ug/mL
response 1443345229

(1) 2,4,5,6-TCMX #2
1.931min 0.215 ug/mL
response 1092167929

QEdit
Select One:
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 6/21/13
Review by/Date: RC 6/21/13

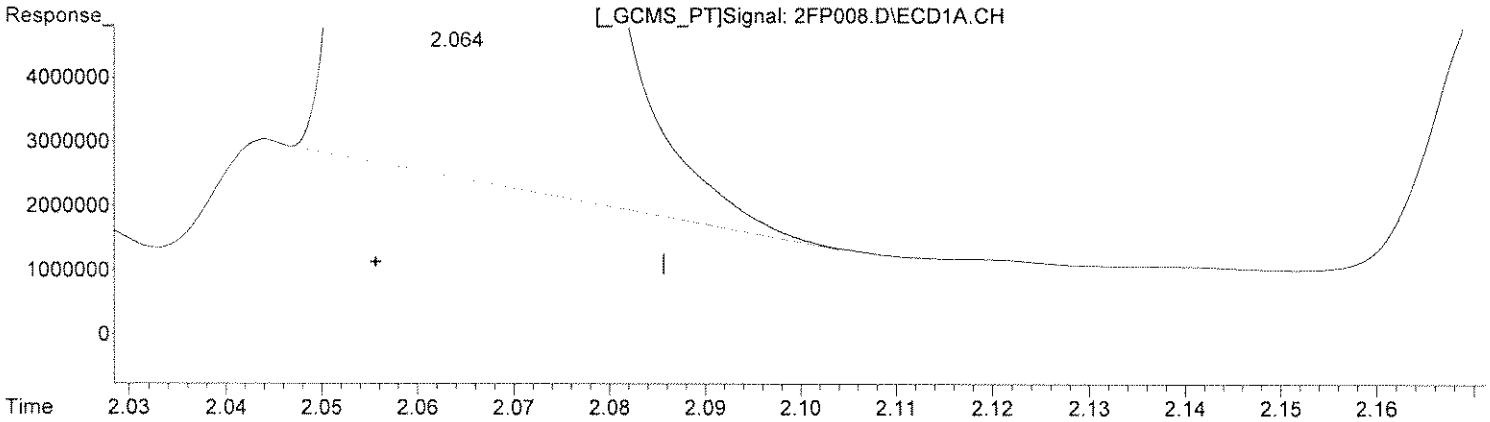
(+) = Expected Retention Time

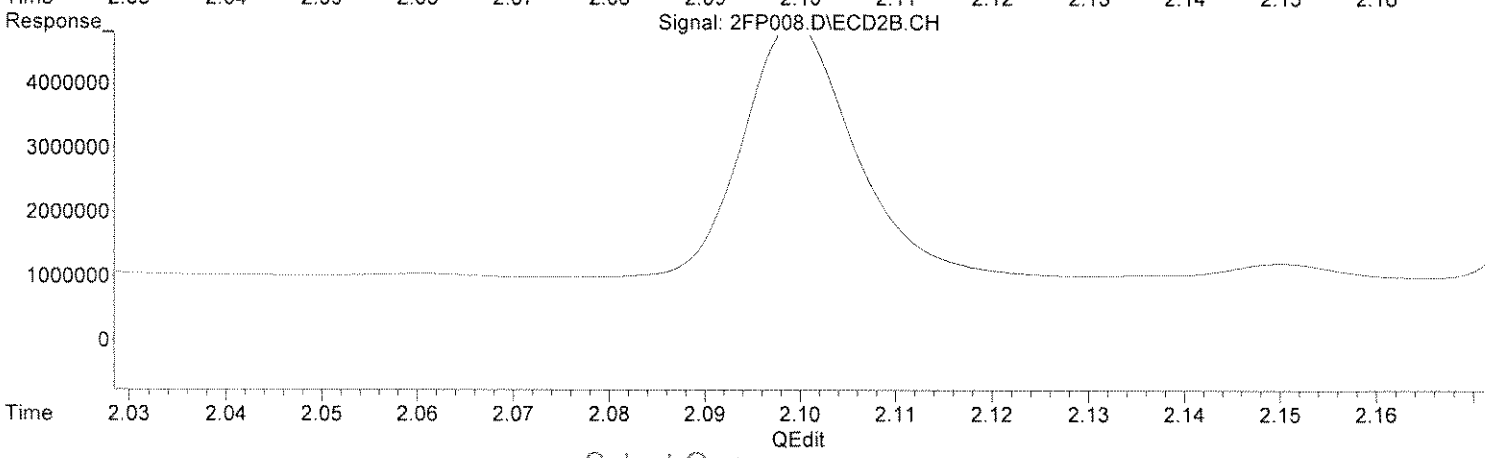
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 7:35
Operator : RC
Sample : AA24639-SCV1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:44:38 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:31:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(1) 2,4,5,6-TCMX
2.064min 0.219 ug/mL m
response 1396608426

(1) 2,4,5,6-TCMX #2
1.931min 0.215 ug/mL
response 1092167929

Select One:
[ ] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 9/6/2013
Review by/Date: RC 06/09/13

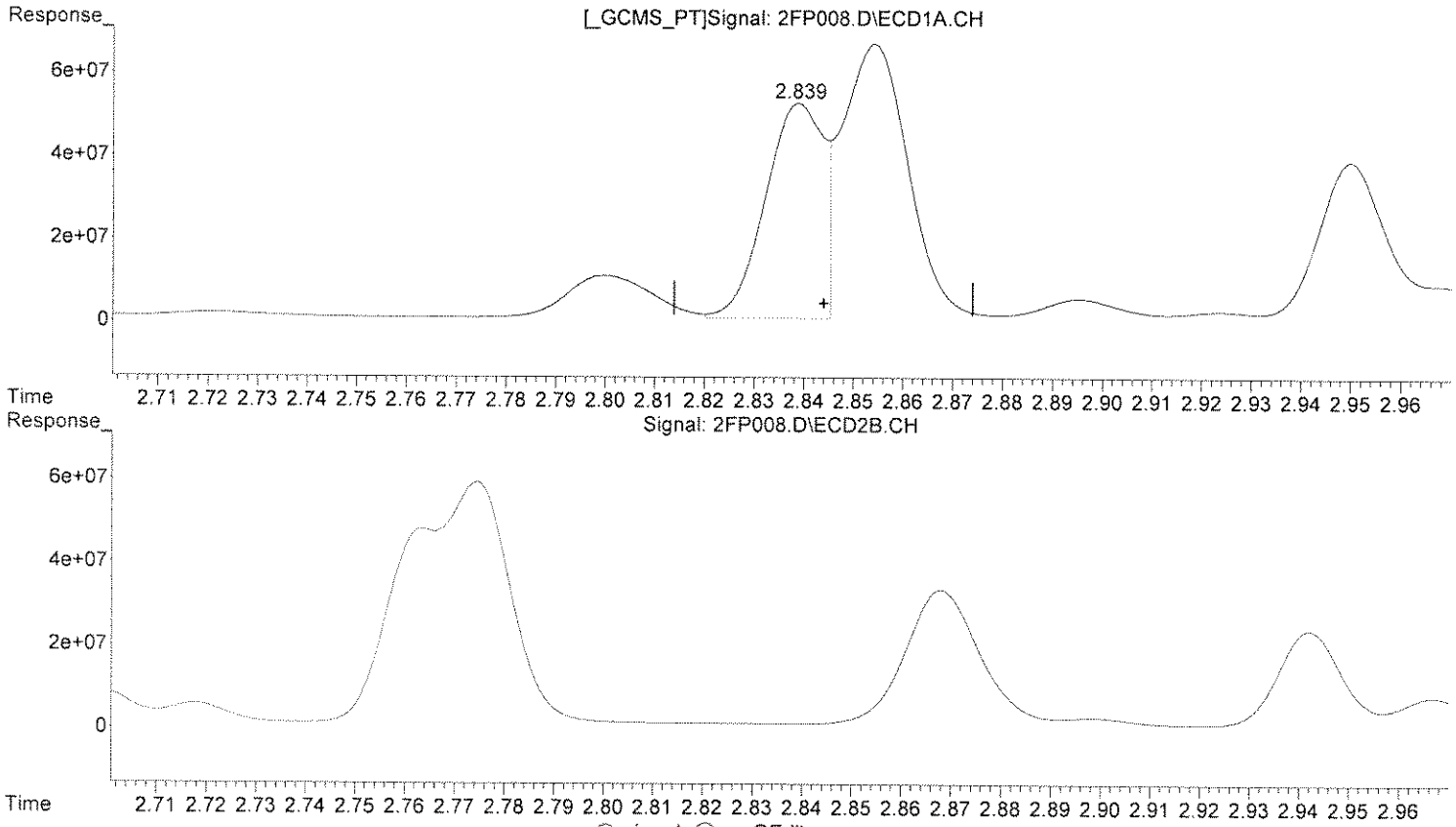
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 7:35
Operator : RC
Sample : AA24639-SCV1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:44:38 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:31:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) PCB1016#3
2.839min 1.348 ug/mL
response 412942666

(4) PCB1016#3 #2
3.012min 2.037 ug/mL
response 185305192

QEdit
Select One
[✓] Original Integration [ ] Manual Integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date 9/6/2013
Review by/Date: RC 9/6/2013

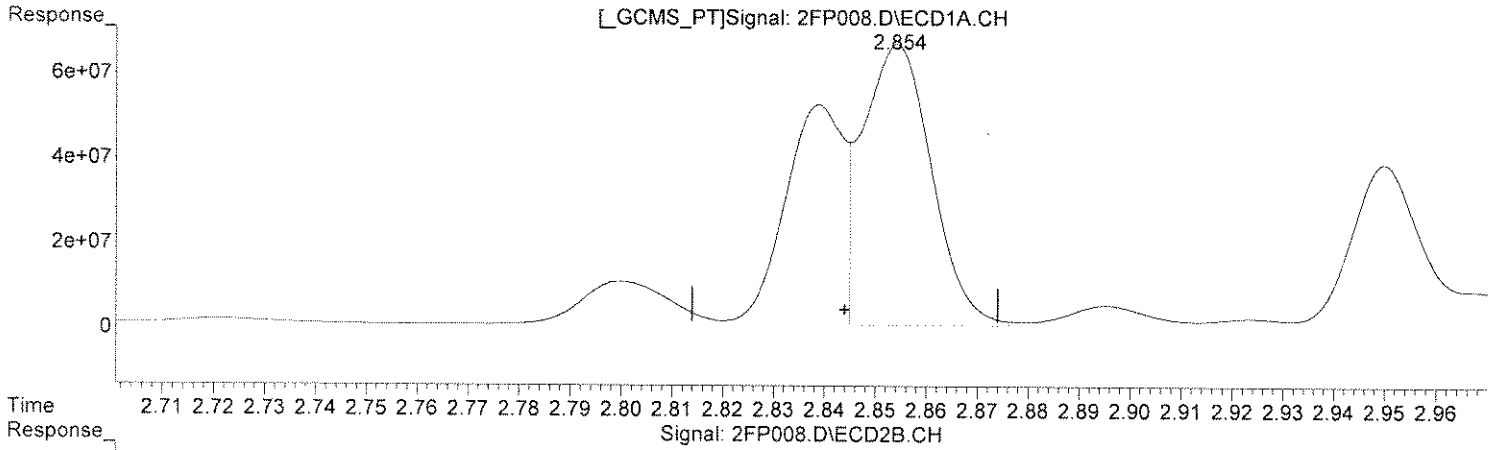
(+) = Expected Retention Time

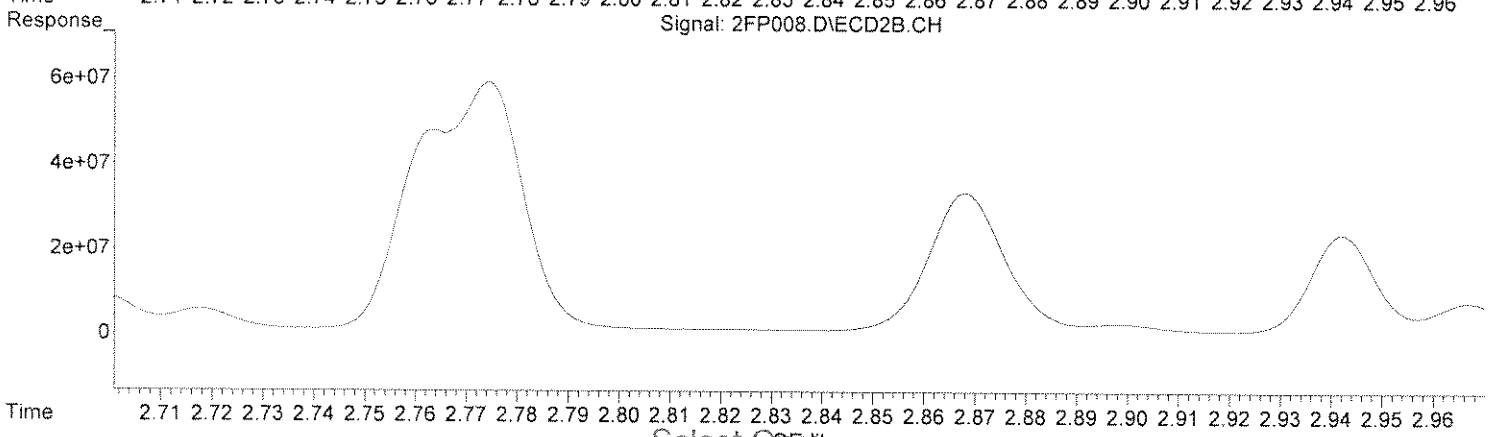
Quantitation Report (Qedit)

Data Path : Y:\2\DATA\2FP13\
Data File : 2FP008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jun 2013 7:35
Operator : RC
Sample : AA24639-SCV1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 07:44:38 2013
Quant Method : Y:\2\METHODS\PCB2FP13.M
Quant Title : PCB SOP SVGC-07; INST OSVGCECD2
QLast Update : Fri Jun 21 07:31:37 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(4) PCB1016#3
2.854min 1.987 ug/mL m
response 616827105

(4) PCB1016#3 #2
3.012min 2.037 ug/mL
response 185305192

Select QEdit
[] Original Integration [✓] Manual Integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[] Incorrect peak selection/Peak not found
[] Hump integration
[] Baseline drop for split peaks
[] ISTD reintegration
[] Other:
Review by/Date 9/6/2013
Review by/Date: RC 09/20/13

(+) = Expected Retention Time

ENCO Orlando

SDG: A303499-CTO0020

CLASS: 28_HG - TOT

METHOD: EPA 7471B

ANALYSES DATA PACKAGE COVER PAGE

EPA 7471B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Client Sample Id:	Lab Sample Id:
HPDTA-BG-SB04-0.5-01-0613	A303499-02
HPDTA-BG-SB04-03-05-0613	A303499-03
HPDTA-BG-SB03-0.5-01-0613	A303499-04
HPDTA-BG-SB03-04-06-0613	A303499-05
TR-2ND-SB07-0.5-01-0613	A303499-06
TR-2ND-SB07-04-06-0613	A303499-07
TR-2ND-SB06-0.5-01-0613	A303499-09
TR-2ND-SB06-05-07-0613	A303499-10
TR-2ND-SB06D-0.5-01-0613	A303499-11
TR-2ND-SB06D-05-07-0613	A303499-12
TR-2ND-SB04-0.5-01-0613	A303499-14
TR-2ND-SB04-04-06-0613	A303499-15
TR-2ND-SB05-0.5-01-0613	A303499-17
TR-2ND-SB05-0.5-01-0613	A303499-17RE1
TR-2ND-SB05-03-05-0613	A303499-18
TR-2ND-SB05-03-05-0613	A303499-18RE1
TR-2ND-SB05-03-05-0613	A303499-18RE2
TR-2ND-SB03-0.5-01-0613	A303499-19
TR-2ND-SB03-0.5-01-0613	A303499-19RE1
TR-2ND-SB03-04-06-0613	A303499-20
TR-2ND-SB02-0.5-1-0613	A303499-21
TR-2ND-SB02-06-08-0613	A303499-22
TR-2ND-SB02-06-08-0613	A303499-22RE1

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

HPDTA-BG-SB04-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-02
File ID: Hg 3F18026 20034 s-027
Sampled: 06/19/13 08:00
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 07:59
Solids: 80.52
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0366	1		0.00484	0.00708	0.0124	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

HPDTA-BG-SB04-03-05-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-03
File ID: Hg 3F18026 20034 s-028
Sampled: 06/19/13 08:10
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:02
Solids: 78.84
Preparation: EPA 7471B
Initial/Final: 0.34 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.00571	1	J	0.00436	0.00638	0.0112	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

HPDTA-BG-SB03-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-04
File ID: Hg 3F18026 20034 s-029
Sampled: 06/19/13 09:15
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:06
Solids: 88.80
Preparation: EPA 7471B
Initial/Final: 0.32 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0281	1		0.00439	0.00642	0.0113	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

HPDTA-BG-SB03-04-06-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-05
File ID: Hg 3F18026 20034 s-031
Sampled: 06/19/13 09:25
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:12
Solids: 80.76
Preparation: EPA 7471B
Initial/Final: 0.34 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	<0.00623	1	U	0.00426	0.00623	0.0109	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB07-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-06
File ID: Hg 3F18026 20034 s-032
Sampled: 06/19/13 10:20
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:15
Solids: 84.46
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0326	1		0.00396	0.00578	0.0101	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB07-04-06-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-07
File ID: Hg 3F18026 20034 s-033
Sampled: 06/19/13 10:40
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:19
Solids: 80.68
Preparation: EPA 7471B
Initial/Final: 0.34 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0271	1		0.00426	0.00623	0.0109	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB06-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-09
File ID: Hg 3F18026 20034 s-037
Sampled: 06/19/13 11:20
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:32
Solids: 84.06
Preparation: EPA 7471B
Initial/Final: 0.3 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0411	1		0.00464	0.00678	0.0119	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB06-05-07-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-10
File ID: Hg 3F18026 20034 s-038
Sampled: 06/19/13 11:30
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:36
Solids: 79.06
Preparation: EPA 7471B
Initial/Final: 0.32 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0179	1		0.00493	0.00721	0.0126	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB06D-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-11
File ID: Hg 3F18026 20034 s-039
Sampled: 06/19/13 11:25
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:39
Solids: 83.39
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.180	1		0.00401	0.00586	0.0103	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB06D-05-07-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-12
File ID: Hg 3F18026 20034 s-040
Sampled: 06/19/13 11:35
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:42
Solids: 78.23
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0175	1		0.00427	0.00625	0.0110	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB04-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-14
File ID: Hg 3F18026 20034 s-041
Sampled: 06/19/13 12:50
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:46
Solids: 85.68
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.407	1		0.00390	0.00570	0.0100	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB04-04-06-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-15
File ID: Hg 3F18026 20034 s-043
Sampled: 06/19/13 13:00
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:52
Solids: 79.34
Preparation: EPA 7471B
Initial/Final: 0.34 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0926	1		0.00434	0.00634	0.0111	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB05-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-17
File ID: Hg 3F18026 20034 s-044
Sampled: 06/19/13 13:30
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:56
Solids: 75.47
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	2.14	1	E	0.00443	0.00647	0.0114	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB05-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-17RE1
File ID: Hg 3F18026 20034 s-046
Sampled: 06/19/13 13:30
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:03
Solids: 75.47
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	2.29	3	D	0.0133	0.0194	0.0341	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB05-03-05-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-18
File ID: Hg 3F18026 20034 s-045
Sampled: 06/19/13 13:40
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 08:59
Solids: 75.96
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	13.7	1	E	0.00513	0.00750	0.0132	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB05-03-05-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-18RE1
File ID: Hg 3F18026 20034 s-053
Sampled: 06/19/13 13:40
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:26
Solids: 75.96
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	49.7	20	DE	0.103	0.150	0.263	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB05-03-05-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-18RE2
File ID: Hg 3F18026 20034 s-056
Sampled: 06/19/13 13:40
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:36
Solids: 75.96
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	51.3	100	D	0.513	0.750	1.32	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB03-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-19
File ID: Hg 3F18026 20034 s-049
Sampled: 06/19/13 14:00
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:13
Solids: 76.63
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	2.00	1	E	0.00509	0.00744	0.0131	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB03-0.5-01-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-19RE1
File ID: Hg 3F18026 20034 s-054
Sampled: 06/19/13 14:00
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:30
Solids: 76.63
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	2.12	3	D	0.0153	0.0223	0.0392	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB03-04-06-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-20
File ID: Hg 3F18026 20034 s-050
Sampled: 06/19/13 14:10
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:16
Solids: 80.94
Preparation: EPA 7471B
Initial/Final: 0.34 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.153	1		0.00425	0.00621	0.0109	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB02-0.5-1-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-21
File ID: Hg 3F18026 20034 s-051
Sampled: 06/19/13 14:15
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:19
Solids: 86.11
Preparation: EPA 7471B
Initial/Final: 0.34 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	0.0376	1		0.00400	0.00584	0.0102	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB02-06-08-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-22
File ID: Hg 3F18026 20034 s-052
Sampled: 06/19/13 14:30
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:23
Solids: 72.13
Preparation: EPA 7471B
Initial/Final: 0.29 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	2.40	1	E	0.00541	0.00790	0.0139	EPA 7471B

INORGANIC ANALYSIS DATA SHEET

EPA 7471B

TR-2ND-SB02-06-08-0613

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: A303499-22RE1
File ID: Hg 3F18026 20034 s-055
Sampled: 06/19/13 14:30
Prepared: 06/20/13 15:59
Analyzed: 06/21/13 09:33
Solids: 72.13
Preparation: EPA 7471B
Initial/Final: 0.29 g / 36 mL
Batch: 3F20034
Sequence: AA24635
Calibration: 1306057
Instrument: OMHG1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7439-97-6	Mercury	2.54	3	D	0.0162	0.0237	0.0416	EPA 7471B

PREPARATION BATCH SUMMARY

EPA 7471B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Batch: 3F20034 Batch Matrix: Soil

Preparation: EPA 7471B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F20034-BLK1	Hg 3F18026 20034 s-020	06/20/13 15:59	
LCS	3F20034-BS1	Hg 3F18026 20034 s-021	06/20/13 15:59	
LCS Dup	3F20034-BSD1	Hg 3F18026 20034 s-022	06/20/13 15:59	
HPDTA-BG-SB04-0.5-01-061 3	A303499-02	Hg 3F18026 20034 s-027	06/20/13 15:59	
HPDTA-BG-SB04-03-05-061 3	A303499-03	Hg 3F18026 20034 s-028	06/20/13 15:59	
HPDTA-BG-SB03-0.5-01-061 3	A303499-04	Hg 3F18026 20034 s-029	06/20/13 15:59	
HPDTA-BG-SB03-04-06-061 3	A303499-05	Hg 3F18026 20034 s-031	06/20/13 15:59	
TR-2ND-SB07-0.5-01-0613	A303499-06	Hg 3F18026 20034 s-032	06/20/13 15:59	
TR-2ND-SB07-04-06-0613	A303499-07	Hg 3F18026 20034 s-033	06/20/13 15:59	
TR-2ND-SB06-0.5-01-0613	A303499-09	Hg 3F18026 20034 s-037	06/20/13 15:59	
TR-2ND-SB06-05-07-0613	A303499-10	Hg 3F18026 20034 s-038	06/20/13 15:59	
TR-2ND-SB06D-0.5-01-0613	A303499-11	Hg 3F18026 20034 s-039	06/20/13 15:59	
TR-2ND-SB06D-05-07-0613	A303499-12	Hg 3F18026 20034 s-040	06/20/13 15:59	
TR-2ND-SB04-0.5-01-0613	A303499-14	Hg 3F18026 20034 s-041	06/20/13 15:59	
TR-2ND-SB04-04-06-0613	A303499-15	Hg 3F18026 20034 s-043	06/20/13 15:59	
TR-2ND-SB05-0.5-01-0613	A303499-17	Hg 3F18026 20034 s-044	06/20/13 15:59	
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	Hg 3F18026 20034 s-046	06/20/13 15:59	
TR-2ND-SB05-03-05-0613	A303499-18	Hg 3F18026 20034 s-045	06/20/13 15:59	
TR-2ND-SB05-03-05-0613	A303499-18RE1	Hg 3F18026 20034 s-053	06/20/13 15:59	
TR-2ND-SB05-03-05-0613	A303499-18RE2	Hg 3F18026 20034 s-056	06/20/13 15:59	
TR-2ND-SB03-0.5-01-0613	A303499-19	Hg 3F18026 20034 s-049	06/20/13 15:59	
TR-2ND-SB03-0.5-01-0613	A303499-19RE1	Hg 3F18026 20034 s-054	06/20/13 15:59	
TR-2ND-SB03-04-06-0613	A303499-20	Hg 3F18026 20034 s-050	06/20/13 15:59	
TR-2ND-SB02-0.5-1-0613	A303499-21	Hg 3F18026 20034 s-051	06/20/13 15:59	
TR-2ND-SB02-06-08-0613	A303499-22	Hg 3F18026 20034 s-052	06/20/13 15:59	
TR-2ND-SB02-06-08-0613	A303499-22RE1	Hg 3F18026 20034 s-055	06/20/13 15:59	

METHOD BLANK DATA SHEET
EPA 7471B

Laboratory:	ENCO Orlando			SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F20034-BLK1	File ID:	Hg 3F18026 20034 s-020
Prepared:	06/20/13 15:59	Preparation:	EPA 7471B	Initial/Final:	0.3 g / 36 mL
Analyzed:	06/21/13 07:36	Instrument:	OMHG1		
Batch:	3F20034	Sequence:	AA24635	Calibration:	1306057

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7439-97-6	Mercury	<0.00570	U

LCS / LCS DUPLICATE RECOVERY

EPA 7471B

Laboratory:	ENCO Orlando	SDG:	A303499-CTO0020
Client:	CH2M Hill, Inc. (CH025)	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F20034	Laboratory ID:	3F20034-BS1
Preparation:	EPA 7471B	Initial/Final:	0.3 g / 36 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Mercury	0.600	0.608	101	80 - 120

COMPOUND	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Mercury	0.600	0.608	101	0.05	20	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24635

Instrument: OMHG1

Calibration: 1306057

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	AA24635-CAL1	Hg 3F18026 20034 s-004	06/21/13 06:41
Cal Standard	AA24635-CAL2	Hg 3F18026 20034 s-005	06/21/13 06:44
Cal Standard	AA24635-CAL3	Hg 3F18026 20034 s-006	06/21/13 06:48
Cal Standard	AA24635-CAL4	Hg 3F18026 20034 s-007	06/21/13 06:51
Cal Standard	AA24635-CAL5	Hg 3F18026 20034 s-008	06/21/13 06:55
Cal Standard	AA24635-CAL6	Hg 3F18026 20034 s-009	06/21/13 06:58
Secondary Cal Check	AA24635-SCV1	Hg 3F18026 20034 s-010	06/21/13 07:03
Initial Cal Check	AA24635-ICV1	Hg 3F18026 20034 s-011	06/21/13 07:06
Initial Cal Blank	AA24635-ICB1	Hg 3F18026 20034 s-012	06/21/13 07:10
Blank	3F20034-BLK1	Hg 3F18026 20034 s-020	06/21/13 07:36
LCS	3F20034-BS1	Hg 3F18026 20034 s-021	06/21/13 07:39
LCS Dup	3F20034-BSD1	Hg 3F18026 20034 s-022	06/21/13 07:42
Calibration Check	AA24635-CCV1	Hg 3F18026 20034 s-023	06/21/13 07:46
Calibration Blank	AA24635-CCB1	Hg 3F18026 20034 s-024	06/21/13 07:49
HPDTA-BG-SB04-0.5-01-0613	A303499-02	Hg 3F18026 20034 s-027	06/21/13 07:59
HPDTA-BG-SB04-03-05-0613	A303499-03	Hg 3F18026 20034 s-028	06/21/13 08:02
HPDTA-BG-SB03-0.5-01-0613	A303499-04	Hg 3F18026 20034 s-029	06/21/13 08:06
HPDTA-BG-SB03-04-06-0613	A303499-05	Hg 3F18026 20034 s-031	06/21/13 08:12
TR-2ND-SB07-0.5-01-0613	A303499-06	Hg 3F18026 20034 s-032	06/21/13 08:15
TR-2ND-SB07-04-06-0613	A303499-07	Hg 3F18026 20034 s-033	06/21/13 08:19
Calibration Check	AA24635-CCV2	Hg 3F18026 20034 s-035	06/21/13 08:26
Calibration Blank	AA24635-CCB2	Hg 3F18026 20034 s-036	06/21/13 08:29
TR-2ND-SB06-0.5-01-0613	A303499-09	Hg 3F18026 20034 s-037	06/21/13 08:32
TR-2ND-SB06-05-07-0613	A303499-10	Hg 3F18026 20034 s-038	06/21/13 08:36
TR-2ND-SB06D-0.5-01-0613	A303499-11	Hg 3F18026 20034 s-039	06/21/13 08:39
TR-2ND-SB06D-05-07-0613	A303499-12	Hg 3F18026 20034 s-040	06/21/13 08:42
TR-2ND-SB04-0.5-01-0613	A303499-14	Hg 3F18026 20034 s-041	06/21/13 08:46
TR-2ND-SB04-04-06-0613	A303499-15	Hg 3F18026 20034 s-043	06/21/13 08:52
TR-2ND-SB05-0.5-01-0613	A303499-17	Hg 3F18026 20034 s-044	06/21/13 08:56
TR-2ND-SB05-03-05-0613	A303499-18	Hg 3F18026 20034 s-045	06/21/13 08:59
TR-2ND-SB05-0.5-01-0613	A303499-17RE1	Hg 3F18026 20034 s-046	06/21/13 09:03
Calibration Check	AA24635-CCV3	Hg 3F18026 20034 s-047	06/21/13 09:06

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Sequence: AA24635

Instrument: OMHG1

Calibration: 1306057

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	AA24635-CCB3	Hg 3F18026 20034 s-048	06/21/13 09:10
TR-2ND-SB03-0.5-01-0613	A303499-19	Hg 3F18026 20034 s-049	06/21/13 09:13
TR-2ND-SB03-04-06-0613	A303499-20	Hg 3F18026 20034 s-050	06/21/13 09:16
TR-2ND-SB02-0.5-1-0613	A303499-21	Hg 3F18026 20034 s-051	06/21/13 09:19
TR-2ND-SB02-06-08-0613	A303499-22	Hg 3F18026 20034 s-052	06/21/13 09:23
TR-2ND-SB05-03-05-0613	A303499-18RE1	Hg 3F18026 20034 s-053	06/21/13 09:26
TR-2ND-SB03-0.5-01-0613	A303499-19RE1	Hg 3F18026 20034 s-054	06/21/13 09:30
TR-2ND-SB02-06-08-0613	A303499-22RE1	Hg 3F18026 20034 s-055	06/21/13 09:33
TR-2ND-SB05-03-05-0613	A303499-18RE2	Hg 3F18026 20034 s-056	06/21/13 09:36
Calibration Check	AA24635-CCV4	Hg 3F18026 20034 s-059	06/21/13 09:46
Calibration Blank	AA24635-CCB4	Hg 3F18026 20034 s-060	06/21/13 09:49

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471B

Laboratory: ENCO Orlando

SDG: A303499-CTO0020

Client: CH2M Hill, Inc. (CH025)

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Instrument ID: OMHG1

Calibration: 1306057

Control Limt: +/- 20.00%

Sequence: AA24635

Lab Sample ID	Analyte	True	Found	%R	Units	Method
AA24635-ICV1	Mercury	5.00	5.01	100	ug/L	EPA 7471B
AA24635-CCV1	Mercury	5.00	4.99	100	ug/L	EPA 7471B
AA24635-CCV2	Mercury	5.00	4.98	100	ug/L	EPA 7471B
AA24635-CCV3	Mercury	5.00	4.96	99	ug/L	EPA 7471B
AA24635-CCV4	Mercury	5.00	5.04	101	ug/L	EPA 7471B

* Values outside of QC limits

BLANKS
EPA 7471B

Laboratory: ENCO Orlando
SDG: A303499-CTO0020
Client: CH2M Hill, Inc. (CH025)
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID: OMHG1
Sequence: AA24635
Calibration: 1306057

Lab Sample ID	Analyte	Found	LOQ	Units	C	Method
AA24635-ICB1	Mercury	-0.00922	0.0833	ug/L		EPA 7471B
3F20034-BLK1	Mercury	-0.00127	0.0100	mg/kg wet		EPA 7471B
AA24635-CCB1	Mercury	-0.00807	0.0833	ug/L		EPA 7471B
AA24635-CCB2	Mercury	-0.0115	0.0833	ug/L		EPA 7471B
AA24635-CCB3	Mercury	-0.00895	0.0833	ug/L		EPA 7471B
AA24635-CCB4	Mercury	-0.00845	0.0833	ug/L		EPA 7471B

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 7471B

Laboratory: ENCO Orlando
Client: CH2M Hill, Inc. (CH025)
Calibration: 1306057
Sequence: AA24635

SDG: A303499-CTO0020
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Laboratory ID: AA24635-SCV1
Standard ID: A3F0310

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Mercury	5.00	5.11	2.2	10.00

* Values outside of QC limits

PREPARATION BENCH SHEET

Printed: 6/20/2013 2:34:49PM

3F18026

ENCO Orlando

Prepared using: EPA 7471B

Spiking Solution
A3F0232 Mercury Secondary Spike 100 ppb

Matrix: Soil - Hg 7471B

Lab Number	CNT	LOC	Sample ID [Source] or Sample ID [Client]	Due Date	Method	Analytes	Initial (g)	Final (mL)	Spike ID	ul Spike	Extraction Comments
3F18026-BLK1			QC		QC	See Below	0.30	36			
3F18026-BS1			QC		QC	See Below	0.30	36	A3F0232	1800	
3F18026-BSD1					QC	See Below	0.30	36	A3F0232	1800	
A303412-03	G	C10	HPDTA-BG-SB02-03-05-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/8/13	EPA 7471B	Hg	0.31	36			
A303412-04	G	C10	TR-5TH-SB02-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/8/13	EPA 7471B	Hg	0.35	36			
A303412-05	G	C10	TR-5TH-SB02-02-04-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/8/13	EPA 7471B	Hg	0.32	36			

Start Date/Time 6/20/13 15:59

StopDate/Time 6/20/13 16:29

Temperature 94°C

Standard ID#	Description	LotNum
A1A0350	PTFE Boiling stones	D1069103
A3F0208	Potassium permanganate 5% solu	na
A3F0303	Hg/Aqua Regia	na

Hg curve is digested with this workgroup. @ 6/20/13

OMETBAL4
Balance ID

OMETBLOCK 2
Hot Block ID

ML27KK03
Digestion Tube Lot #

Guy Rosado 6/20/13 15:15
Samples Prepared By Date/Time

Samples Prepared By Date/Time

Samples Prepared By Date/Time

ORL T.17
Thermometer ID

N/A
Teflon Chips ID

Note - /F at the end of the analyte means that this is a Filtered

PREPARATION BENCH SHEET

Printed: 6/20/2013 2:33:21PM

3F20034

ENCO Orlando

Prepared using: EPA 7471B

Spiking Solution
A3F0232 Mercury Secondary Spike 100 ppb

Matrix: Soil - Hg7471B

Lab Number	CNT	LOC	Sample ID [Source] or Sample ID [Client]	Due Date	Method	Analytes	Initial (g)	Final (mL)	Spike ID	ul Spike	Extraction Comments
3F20034-BLK1			QC		QC	See Below	0.30	36			
3F20034-BS1			QC		QC	See Below	0.30	36	A3F0232	1800	
3F20034-BSD1					QC	See Below	0.30	36	A3F0232	1800	
A303479-10	A	C11	HPDTA-BG-SB05-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/10/13	EPA 7471B	Hg	0.29	36			
A303479-11	A	C11	HPDTA-BG-SB05-06-08-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/10/13	EPA 7471B	Hg	0.29	36			
A303499-02	E	C11	HPDTA-BG-SB04-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.31	36			
A303499-03	E	C11	HPDTA-BG-SB04-03-05-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.34	36			
A303499-04	E	C11	HPDTA-BG-SB03-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.32	36			
A303499-05	E	C11	HPDTA-BG-SB03-04-06-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.34	36			
A303499-06	G	C11	TR-2ND-SB07-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.35	36			
A303499-07	G	C11	TR-2ND-SB07-04-06-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.34	36			
A303499-09	G	C11	TR-2ND-SB06-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.30	36			
A303499-10	G	C11	TR-2ND-SB06-05-07-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.32	36			
A303499-11	G	C11	TR-2ND-SB06D-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.35	36			

PREPARATION BENCH SHEET

Printed: 6/20/2013 2:33:21PM

3F20034

ENCO Orlando

Spiking Solution
A3F0232 Mercury Secondary Spike 100 ppb

Prepared using: EPA 7471B

Matrix: Soil

Lab Number	CNT	LOC	Sample ID [Source] or Sample ID [Client]	Due Date	Method	Analytes	Initial (g)	Final (mL)	Spike ID	ul Spike	Extraction Comments
A303499-12	G	C11	TR-2ND-SB06D-05-07-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.35	36			
A303499-14	G	C11	TR-2ND-SB04-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.35	36			
A303499-15	G	C11	TR-2ND-SB04-04-06-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.34	36			
A303499-17	G	C11	TR-2ND-SB05-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.35	36			
A303499-18	G	C11	TR-2ND-SB05-03-05-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.31	36			
A303499-19	G	C11	TR-2ND-SB03-0.5-01-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.31	36			
A303499-20	G	C11	TR-2ND-SB03-04-06-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.34	36			
A303499-21	G	C11	TR-2ND-SB02-0.5-1-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.34	36			
A303499-22	G	C11	TR-2ND-SB02-0.6-08-0613 [CH2M Hill, Inc. (CH025) - CTO-0020 Towers Road Disposal Areas, Hertford, NC]	7/11/13	EPA 7471B	Hg	0.29	36			

Start Date/Time 6/20/13 15:59

StopDate/Time 6/20/13 16:29

Temperature 92°c

Standard ID#	Description	LotNum
A1A0350	PTFE Boiling stones	D1069103
A3F0208	Potassium permanganate 5% solu	na
A3F0303	Hg/Aqua Regia	na

Hg curve is digested with this workgroup.
(AN) 6/20/13

PREPARATION BENCH SHEET

Printed: 6/20/2013 2:33:21PM

3F20034

ENCO Orlando

Prepared using: EPA 7471B

Spiking Solution
A3F0232 Mercury Secondary Spike 100 ppb

OMETBAL4	OMETBLOCK1	ML27KK03
Balance ID	Hot Block ID	Digestion Tube Lot #
Guy Rosado 6/20/13 14:55		
Samples Prepared By Date/Time	Samples Prepared By Date/Time	Samples Prepared By Date/Time
ORLT.17	N/A	
Thermometer ID	Teflon Chips ID	

Note - /F at the end of the analyte means that this is a Filtered

==========

Analysis Begun

Logged In Analyst: OMHG1 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-91**

Sample Information File: C:\data-AA\labuser\Sample Information\Sample_Information_Jun 2013\Hg 3F18026 200
Batch ID: Hg 3F18026 20034 s
Results Data Set: Hg 3F18026 20034 s
Results Library: C:\data-AA\labuser\Results\Results_June_2013.mdb

==========

Method Loaded
Method Name: Hg Soil MET03 Rev4a **Method Last Saved: 3/15/2012 9:18:39 AM**
Method Description: Hg Soil MET03 Rev4a

==========

Sequence No.: 82 **Autosampler Location:**
Sample ID: Calib Blank 1 **Date Collected: 6/21/2013 6:32:16 AM**
Analyst: **Data Type: Original**

Replicate Data: Calib Blank 1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	-0.0003	0.0001	06:33:11	Yes
2		[0.00]	0.0001	-0.0001	0.0001	06:33:56	Yes
3		[0.00]	0.0001	-0.0003	0.0001	06:34:41	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0000				
%RSD:		0.00	30.73				

Auto-zero performed.

==========

Sequence No.: 83 **Autosampler Location:**
Sample ID: Calib Blank 1 **Date Collected: 6/21/2013 6:35:00 AM**
Analyst: **Data Type: Original**

Replicate Data: Calib Blank 1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0000	0.0012	0.0001	06:35:55	Yes
2		[0.00]	-0.0000	0.0007	0.0001	06:36:39	Yes
3		[0.00]	-0.0001	-0.0003	0.0000	06:37:24	Yes
Mean:		[0.00]	-0.0000				
SD:		0.00	0.0000				
%RSD:		0.00	130.36				

Auto-zero performed.

==========

Sequence No.: 84 **Autosampler Location:**
Sample ID: 3F18026-BLK1 **Date Collected: 6/21/2013 6:38:15 AM**
Analyst: **Data Type: Original**

Replicate Data: 3F18026-BLK1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1125	0.5148	0.1126	06:39:09	Yes
2			0.1116	0.5074	0.1117	06:39:53	Yes
3			0.1110	0.5027	0.1111	06:40:38	Yes
Mean:			0.1117				
SD:			0.0008				
%RSD:			0.70				

==========

Analysis Begun

Logged In Analyst: OMHG1 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-91**

Sample Information File: C:\data-AA\labuser\Sample Information\Sample_Information_Jun 2013\Hg 3F18026 200
Batch ID: Hg 3F18026 20034 s
Results Data Set: Hg 3F18026 20034 s
Results Library: C:\data-AA\labuser\Results\Results_June_2013.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 6/21/2013 6:41:50 AM**
Analyst: **Data Type: Original**

Replicate Data: Calib Blank 1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0007	0.0036	0.0007	06:42:50	Yes
2		[0.00]	0.0002	0.0020	0.0002	06:43:35	Yes
3		[0.00]	0.0002	0.0008	0.0002	06:44:20	Yes
Mean:		[0.00]	0.0003				
SD:		0.00	0.0003				
%RSD:		0.00	79.85				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: Calib Std 1 **Date Collected: 6/21/2013 6:44:51 AM**
Analyst: **Data Type: Original**

Replicate Data: Calib Std 1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0028	0.0150	0.0031	06:45:51	Yes
2		[0.2]	0.0025	0.0091	0.0029	06:46:36	Yes
3		[0.2]	0.0027	0.0153	0.0031	06:47:21	Yes
Mean:		[0.2]	0.0027				
SD:		0.0	0.0001				
%RSD:		0.0	4.82				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01337 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: Calib Std 2 **Date Collected: 6/21/2013 6:48:16 AM**
Analyst: **Data Type: Original**

Replicate Data: Calib Std 2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0068	0.0328	0.0071	06:49:16	Yes
2		[0.5]	0.0065	0.0285	0.0068	06:50:01	Yes
3		[0.5]	0.0065	0.0316	0.0069	06:50:45	Yes
Mean:		[0.5]	0.0066				
SD:		0.0	0.0002				
%RSD:		0.0	2.46				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999976 Slope: 0.01316 Intercept: 0.00002

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: Calib Std 3 **Date Collected: 6/21/2013 6:51:40 AM**

Analyst: **Data Type: Original**

Replicate Data: Calib Std 3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0140	0.0656	0.0143	06:52:42	Yes
2		[1]	0.0138	0.0651	0.0142	06:53:26	Yes
3		[1]	0.0138	0.0628	0.0141	06:54:11	Yes
Mean:		[1]	0.0139				
SD:		0	0.0001				
%RSD:		0	0.82				

Standard number 3 applied. [1]
Correlation Coef.: 0.999642 Slope: 0.01385 Intercept: -0.00011

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Calib Std 4 **Date Collected: 6/21/2013 6:55:05 AM**
Analyst: **Data Type: Original**

Replicate Data: Calib Std 4

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0709	0.3247	0.0712	06:56:07	Yes
2		[5]	0.0702	0.3211	0.0706	06:56:52	Yes
3		[5]	0.0698	0.3194	0.0701	06:57:36	Yes
Mean:		[5]	0.0703				
SD:		0	0.0005				
%RSD:		0	0.76				

Standard number 4 applied. [5]
Correlation Coef.: 0.999984 Slope: 0.01409 Intercept: -0.00020

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: Calib Std 5 **Date Collected: 6/21/2013 6:58:32 AM**
Analyst: **Data Type: Original**

Replicate Data: Calib Std 5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1399	0.6489	0.1403	06:59:34	Yes
2		[10]	0.1391	0.6418	0.1394	07:00:18	Yes
3		[10]	0.1396	0.6409	0.1399	07:01:03	Yes
Mean:		[10]	0.1395				
SD:		0	0.0004				
%RSD:		0	0.31				

Standard number 5 applied. [10]
Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank 1	0.0000	0	0.007	0.00	79.9
Calib Std 1	0.0027	0.2	0.198	0.00	4.8
Calib Std 2	0.0066	0.5	0.478	0.00	2.5
Calib Std 3	0.0139	1.0	0.998	0.00	0.8
Calib Std 4	0.0703	5.0	5.034	0.00	0.8
Calib Std 5	0.1395	10.0	9.984	0.00	0.3

Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

Analytical Sequence
Method: Hg Soil MET03 Rev4a

Seq.	Loc.	ID	Status
1	1	Calib Blank 1	Applied
2	2	Calib Std 1	Applied
3	3	Calib Std 2	Applied
4	4	Calib Std 3	Applied
5	5	Calib Std 4	Applied
6	6	Calib Std 5	Applied

==========

Analysis Begun

Logged In Analyst: OMHG1 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-91**

Sample Information File: C:\data-AA\labuser\Sample Information\Sample_Information_Jun 2013\Hg 3F18026 200
Batch ID: Hg 3F18026 20034 s
Results Data Set: Hg 3F18026 20034 s
Results Library: C:\data-AA\labuser\Results\Results_June_2013.mdb

==========

Sequence No.: 1 **Autosampler Location: 8**
Sample ID: scv **Date Collected: 6/21/2013 7:03:11 AM**
Analyst: **Data Type: Original**

Replicate Data: scv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.134	5.134	0.0717	0.3340	0.0720	07:04:15	Yes
2	5.103	5.103	0.0713	0.3288	0.0716	07:04:59	Yes
3	5.086	5.086	0.0710	0.3277	0.0714	07:05:44	Yes
Mean:	5.108	5.108	0.0713				
SD:	0.025	0.025	0.0003				
%RSD:	0.480	0.480	0.48				

QC value within limits for Hg 253.7 Recovery = 102.15%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 7:06:41 AM**
Analyst: **Data Type: Original**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.036	5.036	0.0703	0.3256	0.0707	07:07:43	Yes
2	5.001	5.001	0.0698	0.3218	0.0702	07:08:28	Yes
3	4.986	4.986	0.0696	0.3217	0.0700	07:09:13	Yes
Mean:	5.008	5.008	0.0699				
SD:	0.026	0.026	0.0004				
%RSD:	0.515	0.515	0.52				

QC value within limits for Hg 253.7 Recovery = 100.16%
All analyte(s) passed QC.

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Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 7:10:08 AM**
Analyst: **Data Type: Original**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0002	0.0008	0.0002	07:11:09	Yes
2	-0.010	-0.010	-0.0002	0.0002	0.0001	07:11:53	Yes
3	-0.012	-0.012	-0.0003	-0.0005	0.0001	07:12:38	Yes

Mean:	-0.009	-0.009	-0.0002
SD:	0.003	0.003	0.0000
%RSD:	32.86	32.86	18.55

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 4 **Autosampler Location: 9**
Sample ID: 3F18026-BLK1 **Date Collected: 6/21/2013 7:13:09 AM**
Analyst: **Data Type: Original**

Replicate Data: 3F18026-BLK1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0003	-0.0003	0.0001	07:14:09	Yes
2	-0.002	-0.002	-0.0001	0.0018	0.0002	07:14:54	Yes
3	-0.004	-0.004	-0.0001	0.0015	0.0002	07:15:38	Yes
Mean:	-0.006	-0.006	-0.0002				
SD:	0.005	0.005	0.0001				
%RSD:	83.15	83.15	36.56				

Sequence No.: 5 **Autosampler Location: 10**
Sample ID: 3F18026-BS1 **Date Collected: 6/21/2013 7:16:09 AM**
Analyst: **Data Type: Original**

Replicate Data: 3F18026-BS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.003	5.003	0.0699	0.3285	0.0702	07:17:09	Yes
2	4.993	4.993	0.0697	0.3254	0.0701	07:17:54	Yes
3	4.954	4.954	0.0692	0.3211	0.0695	07:18:39	Yes
Mean:	4.984	4.984	0.0696				
SD:	0.026	0.026	0.0004				
%RSD:	0.524	0.524	0.52				

Sequence No.: 6 **Autosampler Location: 11**
Sample ID: 3F18026-BSD1 **Date Collected: 6/21/2013 7:19:32 AM**
Analyst: **Data Type: Original**

Replicate Data: 3F18026-BSD1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.992	4.992	0.0697	0.3290	0.0701	07:20:33	Yes
2	4.944	4.944	0.0690	0.3252	0.0694	07:21:18	Yes
3	4.965	4.965	0.0693	0.3266	0.0697	07:22:03	Yes
Mean:	4.967	4.967	0.0694				
SD:	0.024	0.024	0.0003				
%RSD:	0.480	0.480	0.48				

Sequence No.: 7 **Autosampler Location: 12**
Sample ID: A303412-03 **Date Collected: 6/21/2013 7:22:56 AM**
Analyst: **Data Type: Original**

Replicate Data: A303412-03

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.046	0.046	0.0005	0.0035	0.0009	07:23:56	Yes
2	0.045	0.045	0.0005	0.0038	0.0009	07:24:41	Yes
3	0.041	0.041	0.0005	0.0032	0.0008	07:25:26	Yes
Mean:	0.044	0.044	0.0005				

SD:	0.003	0.003	0.0000
%RSD:	5.747	5.747	6.85

Sequence No.: 8 **Autosampler Location: 13**
Sample ID: A303412-04 **Date Collected: 6/21/2013 7:26:20 AM**
Analyst: **Data Type: Original**

Replicate Data: A303412-04

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.603	1.603	0.0223	0.1053	0.0227	07:27:21	Yes
2	1.605	1.605	0.0223	0.1048	0.0227	07:28:05	Yes
3	1.600	1.600	0.0223	0.1046	0.0226	07:28:50	Yes
Mean:	1.603	1.603	0.0223				
SD:	0.002	0.002	0.0000				
%RSD:	0.141	0.141	0.14				

Sequence No.: 9 **Autosampler Location: 14**
Sample ID: A303412-05 **Date Collected: 6/21/2013 7:29:44 AM**
Analyst: **Data Type: Original**

Replicate Data: A303412-05

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.017	0.017	0.0001	0.0026	0.0005	07:30:46	Yes
2	0.014	0.014	0.0001	0.0026	0.0004	07:31:30	Yes
3	0.015	0.015	0.0001	0.0024	0.0005	07:32:15	Yes
Mean:	0.016	0.016	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	9.039	9.039	16.70				

Sequence No.: 10 **Autosampler Location: 15**
Sample ID: A= Blank Rinse **Date Collected: 6/21/2013 7:33:10 AM**
Analyst: **Data Type: Original**

Replicate Data: A= Blank Rinse

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.010	-0.010	-0.0002	0.0007	0.0001	07:34:11	Yes
2	-0.009	-0.009	-0.0002	0.0006	0.0001	07:34:56	Yes
3	-0.010	-0.010	-0.0002	0.0005	0.0001	07:35:40	Yes
Mean:	-0.009	-0.009	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	6.401	6.401	3.63				

Sequence No.: 11 **Autosampler Location: 16**
Sample ID: 3F20034-BLK1 **Date Collected: 6/21/2013 7:36:13 AM**
Analyst: **Data Type: Original**

Replicate Data: 3F20034-BLK1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0003	0.0008	0.0001	07:37:14	Yes
2	-0.011	-0.011	-0.0003	0.0007	0.0001	07:37:59	Yes
3	-0.009	-0.009	-0.0002	0.0011	0.0001	07:38:44	Yes
Mean:	-0.011	-0.011	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	12.03	12.03	7.21				

Sequence No.: 12 **Autosampler Location: 17**
Sample ID: 3F20034-BS1 **Date Collected: 6/21/2013 7:39:16 AM**
Analyst: **Data Type: Original**

Replicate Data: 3F20034-BS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.058	5.058	0.0706	0.3321	0.0710	07:40:18	Yes
2	5.068	5.068	0.0708	0.3338	0.0711	07:41:03	Yes
3	5.073	5.073	0.0708	0.3331	0.0712	07:41:47	Yes
Mean:	5.066	5.066	0.0707				
SD:	0.008	0.008	0.0001				
%RSD:	0.153	0.153	0.15				

Sequence No.: 13 **Autosampler Location: 18**
Sample ID: 3F20034-BSD1 **Date Collected: 6/21/2013 7:42:43 AM**
Analyst: **Data Type: Original**

Replicate Data: 3F20034-BSD1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.076	5.076	0.0709	0.3353	0.0712	07:43:45	Yes
2	5.071	5.071	0.0708	0.3334	0.0712	07:44:29	Yes
3	5.059	5.059	0.0706	0.3348	0.0710	07:45:13	Yes
Mean:	5.069	5.069	0.0708				
SD:	0.009	0.009	0.0001				
%RSD:	0.172	0.172	0.17				

Sequence No.: 14 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 7:46:09 AM**
Analyst: **Data Type: Original**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.997	4.997	0.0698	0.3294	0.0701	07:47:11	Yes
2	4.984	4.984	0.0696	0.3274	0.0699	07:47:55	Yes
3	5.002	5.002	0.0698	0.3288	0.0702	07:48:40	Yes
Mean:	4.994	4.994	0.0697				
SD:	0.009	0.009	0.0001				
%RSD:	0.180	0.180	0.18				

QC value within limits for Hg 253.7 Recovery = 99.89%
All analyte(s) passed QC.

Sequence No.: 15 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 7:49:36 AM**
Analyst: **Data Type: Original**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0002	-0.0000	0.0002	07:50:36	Yes
2	-0.009	-0.009	-0.0002	0.0001	0.0001	07:51:21	Yes
3	-0.009	-0.009	-0.0002	0.0002	0.0001	07:52:05	Yes
Mean:	-0.008	-0.008	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	26.78	26.78	14.24				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 16 **Autosampler Location: 19**
Sample ID: A303479-10 **Date Collected: 6/21/2013 7:52:37 AM**
Analyst: **Data Type: Original**

Replicate Data: A303479-10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.144	0.144	0.0019	0.0100	0.0023	07:53:39	Yes
2	0.140	0.140	0.0019	0.0097	0.0022	07:54:23	Yes
3	0.141	0.141	0.0019	0.0102	0.0022	07:55:07	Yes
Mean:	0.142	0.142	0.0019				
SD:	0.002	0.002	0.0000				
%RSD:	1.561	1.561	1.64				

Sequence No.: 17 **Autosampler Location: 20**
Sample ID: A303479-11 **Date Collected: 6/21/2013 7:56:03 AM**
Analyst: **Data Type: Original**

Replicate Data: A303479-11

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0001	0.0015	0.0002	07:57:06	Yes
2	-0.001	-0.001	-0.0001	0.0012	0.0002	07:57:51	Yes
3	-0.004	-0.004	-0.0002	0.0013	0.0002	07:58:35	Yes
Mean:	-0.002	-0.002	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	86.33	86.33	17.93				

Sequence No.: 18 **Autosampler Location: 21**
Sample ID: A303499-02 **Date Collected: 6/21/2013 7:59:09 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-02

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.251	0.251	0.0034	0.0173	0.0038	08:00:12	Yes
2	0.251	0.251	0.0034	0.0174	0.0038	08:00:57	Yes
3	0.259	0.259	0.0035	0.0185	0.0039	08:01:41	Yes
Mean:	0.253	0.253	0.0034				
SD:	0.005	0.005	0.0001				
%RSD:	1.809	1.809	1.86				

Sequence No.: 19 **Autosampler Location: 22**
Sample ID: A303499-03 **Date Collected: 6/21/2013 8:02:39 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-03

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.042	0.042	0.0005	0.0036	0.0008	08:03:42	Yes
2	0.040	0.040	0.0005	0.0038	0.0008	08:04:26	Yes
3	0.045	0.045	0.0005	0.0041	0.0009	08:05:11	Yes
Mean:	0.043	0.043	0.0005				
SD:	0.002	0.002	0.0000				
%RSD:	5.742	5.742	6.90				

Sequence No.: 20 **Autosampler Location: 23**

Sample ID: A303499-04 **Date Collected: 6/21/2013 8:06:08 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-04

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.224	0.224	0.0030	0.0168	0.0034	08:07:11	Yes
2	0.219	0.219	0.0030	0.0156	0.0033	08:07:55	Yes
3	0.223	0.223	0.0030	0.0161	0.0034	08:08:40	Yes
Mean:	0.222	0.222	0.0030				
SD:	0.003	0.003	0.0000				
%RSD:	1.383	1.383	1.43				

Sequence No.: 21 **Autosampler Location: 24**
Sample ID: B= Blank Rinse **Date Collected: 6/21/2013 8:09:37 AM**
Analyst: **Data Type: Original**

Replicate Data: B= Blank Rinse

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.012	-0.012	-0.0003	-0.0002	0.0001	08:10:36	Yes
2	-0.008	-0.008	-0.0002	0.0010	0.0001	08:11:21	Yes
3	-0.005	-0.005	-0.0002	0.0015	0.0002	08:12:06	Yes
Mean:	-0.008	-0.008	-0.0002				
SD:	0.004	0.004	0.0000				
%RSD:	43.12	43.12	23.12				

Sequence No.: 22 **Autosampler Location: 25**
Sample ID: A303499-05 **Date Collected: 6/21/2013 8:12:36 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-05

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.0002	0.0035	0.0005	08:13:36	Yes
2	0.010	0.010	0.0000	0.0017	0.0004	08:14:21	Yes
3	0.015	0.015	0.0001	0.0035	0.0005	08:15:05	Yes
Mean:	0.014	0.014	0.0001				
SD:	0.004	0.004	0.0001				
%RSD:	26.34	26.34	51.76				

Sequence No.: 23 **Autosampler Location: 26**
Sample ID: A303499-06 **Date Collected: 6/21/2013 8:15:59 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-06

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.268	0.268	0.0037	0.0195	0.0040	08:16:59	Yes
2	0.264	0.264	0.0036	0.0184	0.0039	08:17:43	Yes
3	0.269	0.269	0.0037	0.0177	0.0040	08:18:28	Yes
Mean:	0.267	0.267	0.0036				
SD:	0.003	0.003	0.0000				
%RSD:	0.962	0.962	0.99				

Sequence No.: 24 **Autosampler Location: 27**
Sample ID: A303499-07 **Date Collected: 6/21/2013 8:19:22 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-07

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.200	0.200	0.0027	0.0141	0.0030	08:20:22	Yes
2	0.211	0.211	0.0029	0.0170	0.0032	08:21:07	Yes
3	0.209	0.209	0.0028	0.0149	0.0032	08:21:51	Yes
Mean:	0.207	0.207	0.0028				
SD:	0.006	0.006	0.0001				
%RSD:	2.816	2.816	2.92				

Sequence No.: 25 **Autosampler Location: 28**
Sample ID: C= Blank Rinse **Date Collected: 6/21/2013 8:22:45 AM**
Analyst: **Data Type: Original**

Replicate Data: C= Blank Rinse

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	-0.0001	0.0012	0.0003	08:23:45	Yes
2	0.001	0.001	-0.0001	0.0012	0.0003	08:24:30	Yes
3	0.002	0.002	-0.0001	0.0010	0.0003	08:25:15	Yes
Mean:	0.002	0.002	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	47.56	47.56	13.11				

Sequence No.: 26 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 8:26:09 AM**
Analyst: **Data Type: Original**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.018	5.018	0.0701	0.3320	0.0704	08:27:11	Yes
2	4.954	4.954	0.0692	0.3250	0.0695	08:27:55	Yes
3	4.965	4.965	0.0693	0.3242	0.0697	08:28:40	Yes
Mean:	4.979	4.979	0.0695				
SD:	0.034	0.034	0.0005				
%RSD:	0.691	0.691	0.69				

QC value within limits for Hg 253.7 Recovery = 99.58%
All analyte(s) passed QC.

Sequence No.: 27 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 8:29:36 AM**
Analyst: **Data Type: Original**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0003	0.0001	0.0001	08:30:36	Yes
2	-0.011	-0.011	-0.0003	-0.0007	0.0001	08:31:20	Yes
3	-0.012	-0.012	-0.0003	-0.0018	0.0001	08:32:05	Yes
Mean:	-0.011	-0.011	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	7.284	7.284	4.50				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 28 **Autosampler Location: 29**
Sample ID: A303499-09 **Date Collected: 6/21/2013 8:32:36 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-09

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.291	0.291	0.0040	0.0219	0.0043	08:33:37	Yes
2	0.286	0.286	0.0039	0.0199	0.0042	08:34:22	Yes
3	0.287	0.287	0.0039	0.0201	0.0043	08:35:06	Yes
Mean:	0.288	0.288	0.0039				
SD:	0.002	0.002	0.0000				
%RSD:	0.809	0.809	0.83				

Sequence No.: 29 **Autosampler Location: 30**
Sample ID: A303499-10 **Date Collected: 6/21/2013 8:36:01 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.123	0.123	0.0016	0.0089	0.0020	08:37:01	Yes
2	0.127	0.127	0.0017	0.0096	0.0020	08:37:46	Yes
3	0.129	0.129	0.0017	0.0103	0.0020	08:38:31	Yes
Mean:	0.126	0.126	0.0017				
SD:	0.003	0.003	0.0000				
%RSD:	2.415	2.415	2.56				

Sequence No.: 30 **Autosampler Location: 31**
Sample ID: A303499-11 **Date Collected: 6/21/2013 8:39:25 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-11

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.468	1.468	0.0204	0.0989	0.0208	08:40:26	Yes
2	1.451	1.451	0.0202	0.0973	0.0205	08:41:10	Yes
3	1.455	1.455	0.0203	0.0973	0.0206	08:41:55	Yes
Mean:	1.458	1.458	0.0203				
SD:	0.009	0.009	0.0001				
%RSD:	0.610	0.610	0.61				

Sequence No.: 31 **Autosampler Location: 32**
Sample ID: A303499-12 **Date Collected: 6/21/2013 8:42:50 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-12

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.131	0.131	0.0017	0.0100	0.0021	08:43:51	Yes
2	0.134	0.134	0.0018	0.0100	0.0021	08:44:36	Yes
3	0.135	0.135	0.0018	0.0104	0.0021	08:45:20	Yes
Mean:	0.133	0.133	0.0018				
SD:	0.002	0.002	0.0000				
%RSD:	1.586	1.586	1.68				

Sequence No.: 32 **Autosampler Location: 33**
Sample ID: A303499-14 **Date Collected: 6/21/2013 8:46:16 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-14

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.404	3.404	0.0475	0.2258	0.0478	08:47:17	Yes
2	3.375	3.375	0.0471	0.2236	0.0474	08:48:02	Yes
3	3.383	3.383	0.0472	0.2236	0.0476	08:48:47	Yes
Mean:	3.387	3.387	0.0473				
SD:	0.015	0.015	0.0002				
%RSD:	0.433	0.433	0.43				

Sequence No.: 33 **Autosampler Location: 34**
Sample ID: D= Blank Rinse **Date Collected: 6/21/2013 8:49:42 AM**
Analyst: **Data Type: Original**

Replicate Data: D= Blank Rinse

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.012	-0.012	-0.0003	0.0001	0.0001	08:50:43	Yes
2	-0.012	-0.012	-0.0003	0.0005	0.0001	08:51:28	Yes
3	-0.012	-0.012	-0.0003	0.0001	0.0001	08:52:12	Yes
Mean:	-0.012	-0.012	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.472	1.472	0.92				

Sequence No.: 34 **Autosampler Location: 35**
Sample ID: A303499-15 **Date Collected: 6/21/2013 8:52:45 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-15

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.694	0.694	0.0096	0.0458	0.0099	08:53:47	Yes
2	0.689	0.689	0.0095	0.0453	0.0099	08:54:32	Yes
3	0.698	0.698	0.0097	0.0458	0.0100	08:55:17	Yes
Mean:	0.694	0.694	0.0096				
SD:	0.005	0.005	0.0001				
%RSD:	0.697	0.697	0.70				

Sequence No.: 35 **Autosampler Location: 36**
Sample ID: A303499-17 **Date Collected: 6/21/2013 8:56:13 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-17

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	15.73	15.73	0.2199	1.0578	0.2203	08:57:15	Yes
Sample concentration is greater than that of the highest standard.							
2	15.65	15.65	0.2187	1.0480	0.2190	08:58:00	Yes
Sample concentration is greater than that of the highest standard.							
3	15.64	15.64	0.2186	1.0530	0.2190	08:58:44	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	15.67	15.67	0.2191				
SD:	0.052	0.052	0.0007				
%RSD:	0.335	0.335	0.33				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 36 **Autosampler Location: 37**
Sample ID: A303499-18 **Date Collected: 6/21/2013 8:59:40 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-18

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	90.29	90.29	1.2625	9.1022	1.2629	09:00:43	Yes
Sample concentration is greater than that of the highest standard.							
2	89.86	89.86	1.2565	9.0692	1.2568	09:01:27	Yes
Sample concentration is greater than that of the highest standard.							
3	89.59	89.59	1.2528	9.0557	1.2531	09:02:12	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	89.91	89.91	1.2573				
SD:	0.352	0.352	0.0049				
%RSD:	0.391	0.391	0.39				
Sample concentration is greater than that of the highest standard.							

==========

Sequence No.: 37 **Autosampler Location: 38**
Sample ID: E= **Date Collected: 6/21/2013 9:03:08 AM**
Analyst: **Data Type: Original**

Replicate Data: E=

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.628	5.628	0.0786	0.3711	0.0789	09:04:11	Yes
2	5.585	5.585	0.0780	0.3676	0.0783	09:04:55	Yes
3	5.612	5.612	0.0784	0.3704	0.0787	09:05:40	Yes
Mean:	5.608	5.608	0.0783				
SD:	0.022	0.022	0.0003				
%RSD:	0.388	0.388	0.39				

==========

Sequence No.: 38 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 9:06:37 AM**
Analyst: **Data Type: Original**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.972	4.972	0.0694	0.3265	0.0698	09:07:38	Yes
2	4.961	4.961	0.0693	0.3252	0.0696	09:08:23	Yes
3	4.957	4.957	0.0692	0.3220	0.0696	09:09:08	Yes
Mean:	4.964	4.964	0.0693				
SD:	0.008	0.008	0.0001				
%RSD:	0.158	0.158	0.16				

QC value within limits for Hg 253.7 Recovery = 99.27%
All analyte(s) passed QC.

==========

Sequence No.: 39 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 9:10:04 AM**
Analyst: **Data Type: Original**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.009	-0.009	-0.0002	-0.0004	0.0001	09:11:04	Yes
2	-0.003	-0.003	-0.0001	0.0014	0.0002	09:11:48	Yes
3	-0.015	-0.015	-0.0003	-0.0031	0.0000	09:12:33	Yes
Mean:	-0.009	-0.009	-0.0002				
SD:	0.006	0.006	0.0001				
%RSD:	68.85	68.85	38.37				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 40 **Autosampler Location: 39**
Sample ID: A303499-19 **Date Collected: 6/21/2013 9:13:04 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-19

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.23	13.23	0.1849	0.8832	0.1852	09:14:07	Yes
Sample concentration is greater than that of the highest standard.							
2	13.16	13.16	0.1839	0.8765	0.1843	09:14:52	Yes
Sample concentration is greater than that of the highest standard.							
3	13.20	13.20	0.1845	0.8776	0.1849	09:15:37	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	13.20	13.20	0.1844				
SD:	0.036	0.036	0.0005				
%RSD:	0.272	0.272	0.27				
Sample concentration is greater than that of the highest standard.							

==========

Sequence No.: 41 **Autosampler Location: 40**
Sample ID: A303499-20 **Date Collected: 6/21/2013 9:16:34 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.174	1.174	0.0163	0.0772	0.0167	09:17:33	Yes
2	1.166	1.166	0.0162	0.0748	0.0165	09:18:18	Yes
3	1.161	1.161	0.0161	0.0761	0.0165	09:19:02	Yes
Mean:	1.167	1.167	0.0162				
SD:	0.006	0.006	0.0001				
%RSD:	0.539	0.539	0.54				

==========

Sequence No.: 42 **Autosampler Location: 41**
Sample ID: A303499-21 **Date Collected: 6/21/2013 9:19:55 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-21

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.311	0.311	0.0043	0.0222	0.0046	09:20:55	Yes
2	0.304	0.304	0.0041	0.0202	0.0045	09:21:39	Yes
3	0.301	0.301	0.0041	0.0184	0.0045	09:22:23	Yes
Mean:	0.305	0.305	0.0042				
SD:	0.005	0.005	0.0001				
%RSD:	1.745	1.745	1.79				

==========

Sequence No.: 43 **Autosampler Location: 42**
Sample ID: A303499-22 **Date Collected: 6/21/2013 9:23:16 AM**
Analyst: **Data Type: Original**

Replicate Data: A303499-22

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.04	14.04	0.1962	0.9487	0.1966	09:24:16	Yes
Sample concentration is greater than that of the highest standard.							
2	13.91	13.91	0.1945	0.9344	0.1948	09:25:01	Yes
Sample concentration is greater than that of the highest standard.							
3	13.80	13.80	0.1929	0.9319	0.1933	09:25:45	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	13.92	13.92	0.1946				

SD:	0.118	0.118	0.0016
%RSD:	0.846	0.846	0.85

Sample concentration is greater than that of the highest standard.

==========

Sequence No.: 44 **Autosampler Location: 43**
Sample ID: F= **Date Collected: 6/21/2013 9:26:39 AM**
Analyst: **Data Type: Original**

Replicate Data: F=

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	16.26	16.26	0.2273	1.0789	0.2276	09:27:39	Yes
	Sample concentration is greater than that of the highest standard.						
2	16.25	16.25	0.2271	1.0731	0.2275	09:28:24	Yes
	Sample concentration is greater than that of the highest standard.						
3	16.20	16.20	0.2265	1.0703	0.2268	09:29:08	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	16.24	16.24	0.2270				
SD:	0.031	0.031	0.0004				
%RSD:	0.191	0.191	0.19				

Sample concentration is greater than that of the highest standard.

==========

Sequence No.: 45 **Autosampler Location: 44**
Sample ID: G= **Date Collected: 6/21/2013 9:30:01 AM**
Analyst: **Data Type: Original**

Replicate Data: G=

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.668	4.668	0.0652	0.3051	0.0655	09:31:02	Yes
2	4.656	4.656	0.0650	0.3026	0.0654	09:31:46	Yes
3	4.651	4.651	0.0649	0.3047	0.0653	09:32:31	Yes
Mean:	4.659	4.659	0.0650				
SD:	0.009	0.009	0.0001				
%RSD:	0.188	0.188	0.19				

==========

Sequence No.: 46 **Autosampler Location: 45**
Sample ID: H= **Date Collected: 6/21/2013 9:33:24 AM**
Analyst: **Data Type: Original**

Replicate Data: H=

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.928	4.928	0.0688	0.3261	0.0692	09:34:25	Yes
2	4.911	4.911	0.0686	0.3249	0.0689	09:35:09	Yes
3	4.906	4.906	0.0685	0.3252	0.0688	09:35:54	Yes
Mean:	4.915	4.915	0.0686				
SD:	0.012	0.012	0.0002				
%RSD:	0.237	0.237	0.24				

==========

Sequence No.: 47 **Autosampler Location: 46**
Sample ID: I= **Date Collected: 6/21/2013 9:36:47 AM**
Analyst: **Data Type: Original**

Replicate Data: I=

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.367	3.367	0.0470	0.2200	0.0473	09:37:48	Yes
2	3.330	3.330	0.0465	0.2184	0.0468	09:38:32	Yes

3	3.363	3.363	0.0469	0.2180	0.0473	09:39:17	Yes
Mean:	3.353	3.353	0.0468				
SD:	0.020	0.020	0.0003				
%RSD:	0.601	0.601	0.60				

==========

Sequence No.: 48 **Autosampler Location: 47**
Sample ID: J= **Date Collected: 6/21/2013 9:40:12 AM**
Analyst: **Data Type: Original**

Replicate Data: J=

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0003	-0.0004	0.0001	09:41:13	Yes
2	-0.009	-0.009	-0.0002	0.0004	0.0001	09:41:57	Yes
3	-0.009	-0.009	-0.0002	0.0003	0.0001	09:42:41	Yes
Mean:	-0.010	-0.010	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	10.95	10.95	6.37				

==========

Sequence No.: 49 **Autosampler Location: 48**
Sample ID: K= **Date Collected: 6/21/2013 9:43:14 AM**
Analyst: **Data Type: Original**

Replicate Data: K=

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0002	0.0003	0.0001	09:44:15	Yes
2	-0.005	-0.005	-0.0002	0.0003	0.0002	09:45:00	Yes
3	-0.006	-0.006	-0.0002	0.0003	0.0002	09:45:44	Yes
Mean:	-0.007	-0.007	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	42.31	42.31	21.23				

==========

Sequence No.: 50 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 9:46:17 AM**
Analyst: **Data Type: Original**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.031	5.031	0.0703	0.3304	0.0706	09:47:19	Yes
2	5.043	5.043	0.0704	0.3287	0.0708	09:48:04	Yes
3	5.055	5.055	0.0706	0.3284	0.0709	09:48:49	Yes
Mean:	5.043	5.043	0.0704				
SD:	0.012	0.012	0.0002				
%RSD:	0.242	0.242	0.24				

QC value within limits for Hg 253.7 Recovery = 100.86%
All analyte(s) passed QC.

==========

Sequence No.: 51 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 9:49:45 AM**
Analyst: **Data Type: Original**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.009	-0.009	-0.0002	-0.0000	0.0001	09:50:44	Yes
2	-0.007	-0.007	-0.0002	0.0005	0.0001	09:51:28	Yes
3	-0.009	-0.009	-0.0002	0.0005	0.0001	09:52:12	Yes

Mean:	-0.008	-0.008	-0.0002
SD:	0.001	0.001	0.0000
%RSD:	17.23	17.23	9.36

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analytical Sequence
Method: Hg Soil MET03 Rev4a

Seq.	Loc.	ID	Status
1	8	scv	QC Passed
2	5	ccv	QC Passed
3	1	ccb	QC Passed
4	9	3F18026-BLK1	Analyzed
5	10	3F18026-BS1	Analyzed
6	11	3F18026-BSD1	Analyzed
7	12	A303412-03	Analyzed
8	13	A303412-04	Analyzed
9	14	A303412-05	Analyzed
10	15	A=	Analyzed
11	16	3F20034-BLK1	Analyzed
12	17	3F20034-BS1	Analyzed
13	18	3F20034-BSD1	Analyzed
14	5	ccv	QC Passed
15	1	ccb	QC Passed
16	19	A303479-10	Analyzed
17	20	A303479-11	Analyzed
18	21	A303499-02	Analyzed
19	22	A303499-03	Analyzed
20	23	A303499-04	Analyzed
21	24	B=	Analyzed
22	25	A303499-05	Analyzed
23	26	A303499-06	Analyzed
24	27	A303499-07	Analyzed
25	28	C=	Analyzed
26	5	ccv	QC Passed
27	1	ccb	QC Passed
28	29	A303499-09	Analyzed
29	30	A303499-10	Analyzed
30	31	A303499-11	Analyzed
31	32	A303499-12	Analyzed
32	33	A303499-14	Analyzed
33	34	D=	Analyzed
34	35	A303499-15	Analyzed
35	36	A303499-17	Analyzed
36	37	A303499-18	Analyzed
37	38	E=	Analyzed
38	5	ccv	QC Passed
39	1	ccb	QC Passed
40	39	A303499-19	Analyzed
41	40	A303499-20	Analyzed
42	41	A303499-21	Analyzed
43	42	A303499-22	Analyzed
44	43	F=	Analyzed
45	44	G=	Analyzed
46	45	H=	Analyzed
47	46	I=	Analyzed
48	47	J=	Analyzed
49	48	K=	Analyzed
50	5	ccv	QC Passed
51	1	ccb	QC Passed

==========

Reprocessing Begun
Logged In Analyst: OMHG1 **Technique: AA FIMS-MHS**

Results Data Set (original): Hg 3F18026 20034 s
Results Library (original): C:\data-AA\labuser\Results\Results_June_2013.mdb

Results Data Set (reprocessed): Hg 3F18026 20034 s_RP
Results Library (reprocessed): C:\data-AA\labuser\Results\Results_June_2013.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 6/21/2013 6:41:50 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:10 PM**

Replicate Data: Calib Blank 1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0003	0.0036	0.0007	06:42:50	Yes
2		[0.00]	-0.0001	0.0020	0.0002	06:43:35	Yes
3		[0.00]	-0.0002	0.0008	0.0002	06:44:20	Yes
Mean:		[0.00]	0.0000				
SD:		0.00	0.0003				
%RSD:		0.00	>999.9%				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: Calib Std 1 **Date Collected: 6/21/2013 6:44:51 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:10 PM**

Replicate Data: Calib Std 1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0028	0.0150	0.0031	06:45:51	Yes
2		[0.2]	0.0025	0.0091	0.0029	06:46:36	Yes
3		[0.2]	0.0027	0.0153	0.0031	06:47:21	Yes
Mean:		[0.2]	0.0027				
SD:		0.0	0.0001				
%RSD:		0.0	4.82				

Standard number 1 applied. [0.2]
Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: Calib Std 2 **Date Collected: 6/21/2013 6:48:16 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:12 PM**

Replicate Data: Calib Std 2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0068	0.0328	0.0071	06:49:16	Yes
2		[0.5]	0.0065	0.0285	0.0068	06:50:01	Yes
3		[0.5]	0.0065	0.0316	0.0069	06:50:45	Yes
Mean:		[0.5]	0.0066				
SD:		0.0	0.0002				
%RSD:		0.0	2.46				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: Calib Std 3 **Date Collected: 6/21/2013 6:51:40 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:12 PM**

Replicate Data: Calib Std 3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0140	0.0656	0.0143	06:52:42	Yes
2		[1]	0.0138	0.0651	0.0142	06:53:26	Yes

3	[1]	0.0138	0.0628	0.0141	06:54:11	Yes
Mean:	[1]	0.0139				
SD:	0	0.0001				
%RSD:	0	0.82				

Standard number 3 applied. [1]
Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Calib Std 4 **Date Collected: 6/21/2013 6:55:05 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:13 PM**

Replicate Data: Calib Std 4

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0709	0.3247	0.0712	06:56:07	Yes
2		[5]	0.0702	0.3211	0.0706	06:56:52	Yes
3		[5]	0.0698	0.3194	0.0701	06:57:36	Yes
Mean:		[5]	0.0703				
SD:		0	0.0005				
%RSD:		0	0.76				

Standard number 4 applied. [5]
Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: Calib Std 5 **Date Collected: 6/21/2013 6:58:32 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:13 PM**

Replicate Data: Calib Std 5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1399	0.6489	0.1403	06:59:34	Yes
2		[10]	0.1391	0.6418	0.1394	07:00:18	Yes
3		[10]	0.1396	0.6409	0.1399	07:01:03	Yes
Mean:		[10]	0.1395				
SD:		0	0.0004				
%RSD:		0	0.31				

Standard number 5 applied. [10]
Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank 1	0.0000	0	0.007	0.00	>999.9%
Calib Std 1	0.0027	0.2	0.198	0.00	4.8
Calib Std 2	0.0066	0.5	0.478	0.00	2.5
Calib Std 3	0.0139	1.0	0.998	0.00	0.8
Calib Std 4	0.0703	5.0	5.034	0.00	0.8
Calib Std 5	0.1395	10.0	9.984	0.00	0.3

Correlation Coef.: 0.999988 Slope: 0.01398 Intercept: -0.00010

==========

Sequence No.: 7 **Autosampler Location: 8**
Sample ID: scv **Date Collected: 6/21/2013 7:03:11 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:14 PM**

Replicate Data: scv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.134	5.134	0.0717	0.3340	0.0720	07:04:15	Yes

2	5.103	5.103	0.0713	0.3288	0.0716	07:04:59	Yes
3	5.086	5.086	0.0710	0.3277	0.0714	07:05:44	Yes
Mean:	5.108	5.108	0.0713				
SD:	0.025	0.025	0.0003				
%RSD:	0.480	0.480	0.48				

QC value within limits for Hg 253.7 Recovery = 102.15%
All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 7:06:41 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:15 PM**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.036	5.036	0.0703	0.3256	0.0707	07:07:43	Yes
2	5.001	5.001	0.0698	0.3218	0.0702	07:08:28	Yes
3	4.986	4.986	0.0696	0.3217	0.0700	07:09:13	Yes
Mean:	5.008	5.008	0.0699				
SD:	0.026	0.026	0.0004				
%RSD:	0.515	0.515	0.52				

QC value within limits for Hg 253.7 Recovery = 100.16%
All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 7:10:08 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:15 PM**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0002	0.0008	0.0002	07:11:09	Yes
2	-0.010	-0.010	-0.0002	0.0002	0.0001	07:11:53	Yes
3	-0.012	-0.012	-0.0003	-0.0005	0.0001	07:12:38	Yes
Mean:	-0.009	-0.009	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	32.86	32.86	18.55				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 9**
Sample ID: 3F18026-BLK1 **Date Collected: 6/21/2013 7:13:09 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:16 PM**

Replicate Data: 3F18026-BLK1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0003	-0.0003	0.0001	07:14:09	Yes
2	-0.002	-0.002	-0.0001	0.0018	0.0002	07:14:54	Yes
3	-0.004	-0.004	-0.0001	0.0015	0.0002	07:15:38	Yes
Mean:	-0.006	-0.006	-0.0002				
SD:	0.005	0.005	0.0001				
%RSD:	83.15	83.15	36.56				

Sequence No.: 11 **Autosampler Location: 10**
Sample ID: 3F18026-BS1 **Date Collected: 6/21/2013 7:16:09 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:16 PM**

Replicate Data: 3F18026-BS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.003	5.003	0.0699	0.3285	0.0702	07:17:09	Yes
2	4.993	4.993	0.0697	0.3254	0.0701	07:17:54	Yes
3	4.954	4.954	0.0692	0.3211	0.0695	07:18:39	Yes
Mean:	4.984	4.984	0.0696				
SD:	0.026	0.026	0.0004				
%RSD:	0.524	0.524	0.52				

Sequence No.: 12 **Autosampler Location: 11**
Sample ID: 3F18026-BSD1 **Date Collected: 6/21/2013 7:19:32 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:17 PM**

Replicate Data: 3F18026-BSD1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.992	4.992	0.0697	0.3290	0.0701	07:20:33	Yes
2	4.944	4.944	0.0690	0.3252	0.0694	07:21:18	Yes
3	4.965	4.965	0.0693	0.3266	0.0697	07:22:03	Yes
Mean:	4.967	4.967	0.0694				
SD:	0.024	0.024	0.0003				
%RSD:	0.480	0.480	0.48				

Sequence No.: 13 **Autosampler Location: 12**
Sample ID: A303412-03 **Date Collected: 6/21/2013 7:22:56 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:17 PM**

Replicate Data: A303412-03

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.046	0.046	0.0005	0.0035	0.0009	07:23:56	Yes
2	0.045	0.045	0.0005	0.0038	0.0009	07:24:41	Yes
3	0.041	0.041	0.0005	0.0032	0.0008	07:25:26	Yes
Mean:	0.044	0.044	0.0005				
SD:	0.003	0.003	0.0000				
%RSD:	5.747	5.747	6.85				

Sequence No.: 14 **Autosampler Location: 13**
Sample ID: A303412-04 **Date Collected: 6/21/2013 7:26:20 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:18 PM**

Replicate Data: A303412-04

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.603	1.603	0.0223	0.1053	0.0227	07:27:21	Yes
2	1.605	1.605	0.0223	0.1048	0.0227	07:28:05	Yes
3	1.600	1.600	0.0223	0.1046	0.0226	07:28:50	Yes
Mean:	1.603	1.603	0.0223				
SD:	0.002	0.002	0.0000				
%RSD:	0.141	0.141	0.14				

Sequence No.: 15 **Autosampler Location: 14**
Sample ID: A303412-05 **Date Collected: 6/21/2013 7:29:44 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:19 PM**

Replicate Data: A303412-05

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.017	0.017	0.0001	0.0026	0.0005	07:30:46	Yes

2	0.014	0.014	0.0001	0.0026	0.0004	07:31:30	Yes
3	0.015	0.015	0.0001	0.0024	0.0005	07:32:15	Yes
Mean:	0.016	0.016	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	9.039	9.039	16.70				

==========

Sequence No.: 16 **Autosampler Location: 16**
Sample ID: 3F20034-BLK1 **Date Collected: 6/21/2013 7:36:13 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:19 PM**

Replicate Data: 3F20034-BLK1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0003	0.0008	0.0001	07:37:14	Yes
2	-0.011	-0.011	-0.0003	0.0007	0.0001	07:37:59	Yes
3	-0.009	-0.009	-0.0002	0.0011	0.0001	07:38:44	Yes
Mean:	-0.011	-0.011	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	12.03	12.03	7.21				

==========

Sequence No.: 17 **Autosampler Location: 17**
Sample ID: 3F20034-BS1 **Date Collected: 6/21/2013 7:39:16 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:20 PM**

Replicate Data: 3F20034-BS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.058	5.058	0.0706	0.3321	0.0710	07:40:18	Yes
2	5.068	5.068	0.0708	0.3338	0.0711	07:41:03	Yes
3	5.073	5.073	0.0708	0.3331	0.0712	07:41:47	Yes
Mean:	5.066	5.066	0.0707				
SD:	0.008	0.008	0.0001				
%RSD:	0.153	0.153	0.15				

==========

Sequence No.: 18 **Autosampler Location: 18**
Sample ID: 3F20034-BSD1 **Date Collected: 6/21/2013 7:42:43 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:20 PM**

Replicate Data: 3F20034-BSD1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.076	5.076	0.0709	0.3353	0.0712	07:43:45	Yes
2	5.071	5.071	0.0708	0.3334	0.0712	07:44:29	Yes
3	5.059	5.059	0.0706	0.3348	0.0710	07:45:13	Yes
Mean:	5.069	5.069	0.0708				
SD:	0.009	0.009	0.0001				
%RSD:	0.172	0.172	0.17				

==========

Sequence No.: 19 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 7:46:09 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:21 PM**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.997	4.997	0.0698	0.3294	0.0701	07:47:11	Yes
2	4.984	4.984	0.0696	0.3274	0.0699	07:47:55	Yes
3	5.002	5.002	0.0698	0.3288	0.0702	07:48:40	Yes
Mean:	4.994	4.994	0.0697				

SD:	0.009	0.009	0.0001
%RSD:	0.180	0.180	0.18

QC value within limits for Hg 253.7 Recovery = 99.89%
All analyte(s) passed QC.

==========

Sequence No.: 20 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 7:49:36 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:22 PM**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0002	-0.0000	0.0002	07:50:36	Yes
2	-0.009	-0.009	-0.0002	0.0001	0.0001	07:51:21	Yes
3	-0.009	-0.009	-0.0002	0.0002	0.0001	07:52:05	Yes
Mean:	-0.008	-0.008	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	26.78	26.78	14.24				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 21 **Autosampler Location: 19**
Sample ID: A303479-10 **Date Collected: 6/21/2013 7:52:37 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:22 PM**

Replicate Data: A303479-10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.144	0.144	0.0019	0.0100	0.0023	07:53:39	Yes
2	0.140	0.140	0.0019	0.0097	0.0022	07:54:23	Yes
3	0.141	0.141	0.0019	0.0102	0.0022	07:55:07	Yes
Mean:	0.142	0.142	0.0019				
SD:	0.002	0.002	0.0000				
%RSD:	1.561	1.561	1.64				

==========

Sequence No.: 22 **Autosampler Location: 20**
Sample ID: A303479-11 **Date Collected: 6/21/2013 7:56:03 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:23 PM**

Replicate Data: A303479-11

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0001	0.0015	0.0002	07:57:06	Yes
2	-0.001	-0.001	-0.0001	0.0012	0.0002	07:57:51	Yes
3	-0.004	-0.004	-0.0002	0.0013	0.0002	07:58:35	Yes
Mean:	-0.002	-0.002	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	86.33	86.33	17.93				

==========

Sequence No.: 23 **Autosampler Location: 21**
Sample ID: A303499-02 **Date Collected: 6/21/2013 7:59:09 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:23 PM**

Replicate Data: A303499-02

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.251	0.251	0.0034	0.0173	0.0038	08:00:12	Yes
2	0.251	0.251	0.0034	0.0174	0.0038	08:00:57	Yes
3	0.259	0.259	0.0035	0.0185	0.0039	08:01:41	Yes

Mean:	0.253	0.253	0.0034
SD:	0.005	0.005	0.0001
%RSD:	1.809	1.809	1.86

Sequence No.: 24 **Autosampler Location: 22**
Sample ID: A303499-03 **Date Collected: 6/21/2013 8:02:39 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:24 PM**

Replicate Data: A303499-03

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.042	0.042	0.0005	0.0036	0.0008	08:03:42	Yes
2	0.040	0.040	0.0005	0.0038	0.0008	08:04:26	Yes
3	0.045	0.045	0.0005	0.0041	0.0009	08:05:11	Yes
Mean:	0.043	0.043	0.0005				
SD:	0.002	0.002	0.0000				
%RSD:	5.742	5.742	6.90				

Sequence No.: 25 **Autosampler Location: 23**
Sample ID: A303499-04 **Date Collected: 6/21/2013 8:06:08 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:24 PM**

Replicate Data: A303499-04

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.224	0.224	0.0030	0.0168	0.0034	08:07:11	Yes
2	0.219	0.219	0.0030	0.0156	0.0033	08:07:55	Yes
3	0.223	0.223	0.0030	0.0161	0.0034	08:08:40	Yes
Mean:	0.222	0.222	0.0030				
SD:	0.003	0.003	0.0000				
%RSD:	1.383	1.383	1.43				

Sequence No.: 26 **Autosampler Location: 25**
Sample ID: A303499-05 **Date Collected: 6/21/2013 8:12:36 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:25 PM**

Replicate Data: A303499-05

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.0002	0.0035	0.0005	08:13:36	Yes
2	0.010	0.010	0.0000	0.0017	0.0004	08:14:21	Yes
3	0.015	0.015	0.0001	0.0035	0.0005	08:15:05	Yes
Mean:	0.014	0.014	0.0001				
SD:	0.004	0.004	0.0001				
%RSD:	26.34	26.34	51.76				

Sequence No.: 27 **Autosampler Location: 26**
Sample ID: A303499-06 **Date Collected: 6/21/2013 8:15:59 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:26 PM**

Replicate Data: A303499-06

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.268	0.268	0.0037	0.0195	0.0040	08:16:59	Yes
2	0.264	0.264	0.0036	0.0184	0.0039	08:17:43	Yes
3	0.269	0.269	0.0037	0.0177	0.0040	08:18:28	Yes
Mean:	0.267	0.267	0.0036				
SD:	0.003	0.003	0.0000				
%RSD:	0.962	0.962	0.99				

Sequence No.: 28 **Autosampler Location: 27**
Sample ID: A303499-07 **Date Collected: 6/21/2013 8:19:22 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:26 PM**

Replicate Data: A303499-07

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.200	0.200	0.0027	0.0141	0.0030	08:20:22	Yes
2	0.211	0.211	0.0029	0.0170	0.0032	08:21:07	Yes
3	0.209	0.209	0.0028	0.0149	0.0032	08:21:51	Yes
Mean:	0.207	0.207	0.0028				
SD:	0.006	0.006	0.0001				
%RSD:	2.816	2.816	2.92				

Sequence No.: 29 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 8:26:09 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:27 PM**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.018	5.018	0.0701	0.3320	0.0704	08:27:11	Yes
2	4.954	4.954	0.0692	0.3250	0.0695	08:27:55	Yes
3	4.965	4.965	0.0693	0.3242	0.0697	08:28:40	Yes
Mean:	4.979	4.979	0.0695				
SD:	0.034	0.034	0.0005				
%RSD:	0.691	0.691	0.69				

QC value within limits for Hg 253.7 Recovery = 99.58%
All analyte(s) passed QC.

Sequence No.: 30 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 8:29:36 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:27 PM**

Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0003	0.0001	0.0001	08:30:36	Yes
2	-0.011	-0.011	-0.0003	-0.0007	0.0001	08:31:20	Yes
3	-0.012	-0.012	-0.0003	-0.0018	0.0001	08:32:05	Yes
Mean:	-0.011	-0.011	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	7.284	7.284	4.50				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 31 **Autosampler Location: 29**
Sample ID: A303499-09 **Date Collected: 6/21/2013 8:32:36 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:28 PM**

Replicate Data: A303499-09

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.291	0.291	0.0040	0.0219	0.0043	08:33:37	Yes
2	0.286	0.286	0.0039	0.0199	0.0042	08:34:22	Yes
3	0.287	0.287	0.0039	0.0201	0.0043	08:35:06	Yes
Mean:	0.288	0.288	0.0039				
SD:	0.002	0.002	0.0000				

%RSD:	0.809	0.809	0.83

Sequence No.: 32 **Autosampler Location: 30**
Sample ID: A303499-10 **Date Collected: 6/21/2013 8:36:01 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:28 PM**

Replicate Data: A303499-10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.123	0.123	0.0016	0.0089	0.0020	08:37:01	Yes
2	0.127	0.127	0.0017	0.0096	0.0020	08:37:46	Yes
3	0.129	0.129	0.0017	0.0103	0.0020	08:38:31	Yes
Mean:	0.126	0.126	0.0017				
SD:	0.003	0.003	0.0000				
%RSD:	2.415	2.415	2.56				

Sequence No.: 33 **Autosampler Location: 31**
Sample ID: A303499-11 **Date Collected: 6/21/2013 8:39:25 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:29 PM**

Replicate Data: A303499-11

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.468	1.468	0.0204	0.0989	0.0208	08:40:26	Yes
2	1.451	1.451	0.0202	0.0973	0.0205	08:41:10	Yes
3	1.455	1.455	0.0203	0.0973	0.0206	08:41:55	Yes
Mean:	1.458	1.458	0.0203				
SD:	0.009	0.009	0.0001				
%RSD:	0.610	0.610	0.61				

Sequence No.: 34 **Autosampler Location: 32**
Sample ID: A303499-12 **Date Collected: 6/21/2013 8:42:50 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:29 PM**

Replicate Data: A303499-12

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.131	0.131	0.0017	0.0100	0.0021	08:43:51	Yes
2	0.134	0.134	0.0018	0.0100	0.0021	08:44:36	Yes
3	0.135	0.135	0.0018	0.0104	0.0021	08:45:20	Yes
Mean:	0.133	0.133	0.0018				
SD:	0.002	0.002	0.0000				
%RSD:	1.586	1.586	1.68				

Sequence No.: 35 **Autosampler Location: 33**
Sample ID: A303499-14 **Date Collected: 6/21/2013 8:46:16 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:30 PM**

Replicate Data: A303499-14

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.404	3.404	0.0475	0.2258	0.0478	08:47:17	Yes
2	3.375	3.375	0.0471	0.2236	0.0474	08:48:02	Yes
3	3.383	3.383	0.0472	0.2236	0.0476	08:48:47	Yes
Mean:	3.387	3.387	0.0473				
SD:	0.015	0.015	0.0002				
%RSD:	0.433	0.433	0.43				

Sequence No.: 36 **Autosampler Location: 35**
Sample ID: A303499-15 **Date Collected: 6/21/2013 8:52:45 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:31 PM**

Replicate Data: A303499-15

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.694	0.694	0.0096	0.0458	0.0099	08:53:47	Yes
2	0.689	0.689	0.0095	0.0453	0.0099	08:54:32	Yes
3	0.698	0.698	0.0097	0.0458	0.0100	08:55:17	Yes
Mean:	0.694	0.694	0.0096				
SD:	0.005	0.005	0.0001				
%RSD:	0.697	0.697	0.70				

Sequence No.: 37 **Autosampler Location: 36**
Sample ID: A303499-17 **Date Collected: 6/21/2013 8:56:13 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:31 PM**

Replicate Data: A303499-17

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	15.73	15.73	0.2199	1.0578	0.2203	08:57:15	Yes
Sample concentration is greater than that of the highest standard.							
2	15.65	15.65	0.2187	1.0480	0.2190	08:58:00	Yes
Sample concentration is greater than that of the highest standard.							
3	15.64	15.64	0.2186	1.0530	0.2190	08:58:44	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	15.67	15.67	0.2191				
SD:	0.052	0.052	0.0007				
%RSD:	0.335	0.335	0.33				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 38 **Autosampler Location: 37**
Sample ID: A303499-18 **Date Collected: 6/21/2013 8:59:40 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:32 PM**

Replicate Data: A303499-18

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	90.29	90.29	1.2625	9.1022	1.2629	09:00:43	Yes
Sample concentration is greater than that of the highest standard.							
2	89.86	89.86	1.2565	9.0692	1.2568	09:01:27	Yes
Sample concentration is greater than that of the highest standard.							
3	89.59	89.59	1.2528	9.0557	1.2531	09:02:12	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	89.91	89.91	1.2573				
SD:	0.352	0.352	0.0049				
%RSD:	0.391	0.391	0.39				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 39 **Autosampler Location: 38**
Sample ID: A303499-17RE1 **Date Collected: 6/21/2013 9:03:08 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:32 PM**

Replicate Data: A303499-17RE1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.628	5.628	0.0786	0.3711	0.0789	09:04:11	Yes
2	5.585	5.585	0.0780	0.3676	0.0783	09:04:55	Yes
3	5.612	5.612	0.0784	0.3704	0.0787	09:05:40	Yes

Mean:	5.608	5.608	0.0783
SD:	0.022	0.022	0.0003
%RSD:	0.388	0.388	0.39

Sequence No.: 40 **Autosampler Location: 39**
Sample ID: A303499-19 **Date Collected: 6/21/2013 9:13:04 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:33 PM**

Replicate Data: A303499-19

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.23	13.23	0.1849	0.8832	0.1852	09:14:07	Yes
Sample concentration is greater than that of the highest standard.							
2	13.16	13.16	0.1839	0.8765	0.1843	09:14:52	Yes
Sample concentration is greater than that of the highest standard.							
3	13.20	13.20	0.1845	0.8776	0.1849	09:15:37	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	13.20	13.20	0.1844				
SD:	0.036	0.036	0.0005				
%RSD:	0.272	0.272	0.27				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 41 **Autosampler Location: 40**
Sample ID: A303499-20 **Date Collected: 6/21/2013 9:16:34 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:33 PM**

Replicate Data: A303499-20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.174	1.174	0.0163	0.0772	0.0167	09:17:33	Yes
2	1.166	1.166	0.0162	0.0748	0.0165	09:18:18	Yes
3	1.161	1.161	0.0161	0.0761	0.0165	09:19:02	Yes
Mean:	1.167	1.167	0.0162				
SD:	0.006	0.006	0.0001				
%RSD:	0.539	0.539	0.54				

Sequence No.: 42 **Autosampler Location: 41**
Sample ID: A303499-21 **Date Collected: 6/21/2013 9:19:55 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:34 PM**

Replicate Data: A303499-21

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.311	0.311	0.0043	0.0222	0.0046	09:20:55	Yes
2	0.304	0.304	0.0041	0.0202	0.0045	09:21:39	Yes
3	0.301	0.301	0.0041	0.0184	0.0045	09:22:23	Yes
Mean:	0.305	0.305	0.0042				
SD:	0.005	0.005	0.0001				
%RSD:	1.745	1.745	1.79				

Sequence No.: 43 **Autosampler Location: 42**
Sample ID: A303499-22 **Date Collected: 6/21/2013 9:23:16 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:35 PM**

Replicate Data: A303499-22

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.04	14.04	0.1962	0.9487	0.1966	09:24:16	Yes
Sample concentration is greater than that of the highest standard.							

2	13.91	13.91	0.1945	0.9344	0.1948	09:25:01	Yes
Sample concentration is greater than that of the highest standard.							
3	13.80	13.80	0.1929	0.9319	0.1933	09:25:45	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	13.92	13.92	0.1946				
SD:	0.118	0.118	0.0016				
%RSD:	0.846	0.846	0.85				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 44 **Autosampler Location: 43**
Sample ID: A303499-18RE1 **Date Collected: 6/21/2013 9:26:39 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:35 PM**

Replicate Data: A303499-18RE1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	16.26	16.26	0.2273	1.0789	0.2276	09:27:39	Yes
Sample concentration is greater than that of the highest standard.							
2	16.25	16.25	0.2271	1.0731	0.2275	09:28:24	Yes
Sample concentration is greater than that of the highest standard.							
3	16.20	16.20	0.2265	1.0703	0.2268	09:29:08	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	16.24	16.24	0.2270				
SD:	0.031	0.031	0.0004				
%RSD:	0.191	0.191	0.19				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 45 **Autosampler Location: 44**
Sample ID: A303499-19RE1 **Date Collected: 6/21/2013 9:30:01 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:36 PM**

Replicate Data: A303499-19RE1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.668	4.668	0.0652	0.3051	0.0655	09:31:02	Yes
2	4.656	4.656	0.0650	0.3026	0.0654	09:31:46	Yes
3	4.651	4.651	0.0649	0.3047	0.0653	09:32:31	Yes
Mean:	4.659	4.659	0.0650				
SD:	0.009	0.009	0.0001				
%RSD:	0.188	0.188	0.19				

Sequence No.: 46 **Autosampler Location: 45**
Sample ID: A303499-22RE1 **Date Collected: 6/21/2013 9:33:24 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:36 PM**

Replicate Data: A303499-22RE1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.928	4.928	0.0688	0.3261	0.0692	09:34:25	Yes
2	4.911	4.911	0.0686	0.3249	0.0689	09:35:09	Yes
3	4.906	4.906	0.0685	0.3252	0.0688	09:35:54	Yes
Mean:	4.915	4.915	0.0686				
SD:	0.012	0.012	0.0002				
%RSD:	0.237	0.237	0.24				

Sequence No.: 47 **Autosampler Location: 46**
Sample ID: A303499-18RE2 **Date Collected: 6/21/2013 9:36:47 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:37 PM**

Replicate Data: A303499-18RE2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.367	3.367	0.0470	0.2200	0.0473	09:37:48	Yes
2	3.330	3.330	0.0465	0.2184	0.0468	09:38:32	Yes
3	3.363	3.363	0.0469	0.2180	0.0473	09:39:17	Yes
Mean:	3.353	3.353	0.0468				
SD:	0.020	0.020	0.0003				
%RSD:	0.601	0.601	0.60				

==========

Sequence No.: 48 **Autosampler Location: 5**
Sample ID: ccv **Date Collected: 6/21/2013 9:46:17 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:37 PM**

Replicate Data: ccv

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.031	5.031	0.0703	0.3304	0.0706	09:47:19	Yes
2	5.043	5.043	0.0704	0.3287	0.0708	09:48:04	Yes
3	5.055	5.055	0.0706	0.3284	0.0709	09:48:49	Yes
Mean:	5.043	5.043	0.0704				
SD:	0.012	0.012	0.0002				
%RSD:	0.242	0.242	0.24				

QC value within limits for Hg 253.7 Recovery = 100.86%
All analyte(s) passed QC.

==========

Sequence No.: 49 **Autosampler Location: 1**
Sample ID: ccb **Date Collected: 6/21/2013 9:49:45 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 12:34:38 PM**

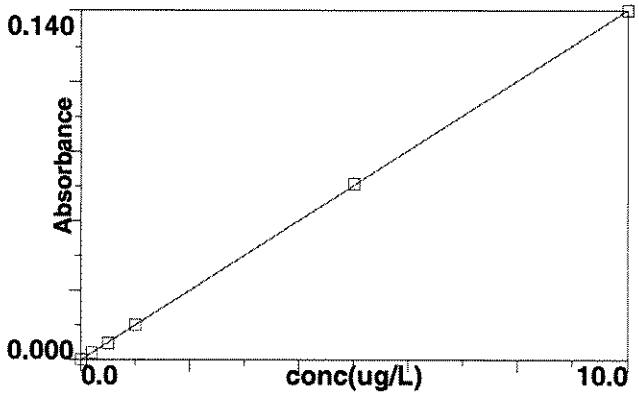
Replicate Data: ccb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.009	-0.009	-0.0002	-0.0000	0.0001	09:50:44	Yes
2	-0.007	-0.007	-0.0002	0.0005	0.0001	09:51:28	Yes
3	-0.009	-0.009	-0.0002	0.0005	0.0001	09:52:12	Yes
Mean:	-0.008	-0.008	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	17.23	17.23	9.36				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Method: Hg Soil MET03 Rev4a
Result: Hg 3F18026 20034 s_RP

Hg 253.7



Calib Eq'n: Lin, Calc Int
Corr Coeff: 0.999988

ENCO Jacksonville

SDG: A303499-CTO0020

CLASS: 25_METALS - TOT

METHOD: EPA 6010C

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010C

Laboratory:	ENCO Jacksonville	SDG:	A303499-CTO0020
Client:	ENCO Orlando	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC

Client Sample Id:	Lab Sample Id:
A303499-02 (HPDTA-BG-SB04-0.5-01-0613)	B302882-01
A303499-03 (HPDTA-BG-SB04-03-05-0613)	B302882-02
A303499-04 (HPDTA-BG-SB03-0.5-01-0613)	B302882-03
A303499-05 (HPDTA-BG-SB03-04-06-0613)	B302882-04
A303499-06 (TR-2ND-SB07-0.5-01-0613)	B302882-05
A303499-07 (TR-2ND-SB07-04-06-0613)	B302882-06
A303499-09 (TR-2ND-SB06-0.5-01-0613)	B302882-07
A303499-10 (TR-2ND-SB06-05-07-0613)	B302882-08
A303499-11 (TR-2ND-SB06D-0.5-01-0613)	B302882-09
A303499-12 (TR-2ND-SB06D-05-07-0613)	B302882-10
A303499-14 (TR-2ND-SB04-0.5-01-0613)	B302882-11
A303499-15 (TR-2ND-SB04-04-06-0613)	B302882-12
A303499-17 (TR-2ND-SB05-0.5-01-0613)	B302882-13
A303499-18 (TR-2ND-SB05-03-05-0613)	B302882-14
A303499-19 (TR-2ND-SB03-0.5-01-0613)	B302882-15
A303499-20 (TR-2ND-SB03-04-06-0613)	B302882-16
A303499-21 (TR-2ND-SB02-0.5-1-0613)	B302882-17
A303499-22 (TR-2ND-SB02-0.6-08-0613)	B302882-18

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-02
(HPDTA-BG-SB04-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Matrix: Soil
Laboratory ID: B302882-01
File ID: 062713a-020
Sampled: 06/19/13 08:00
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:40
Solids: 80.52
Preparation: EPA 3050B
Initial/Final: 0.72 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	32000	1		4.14	17.2	34.5	EPA 6010C
7440-36-0	Antimony	<1.72	1	U	0.845	1.72	3.45	EPA 6010C
7440-38-2	Arsenic	2.60	1	J	0.483	1.72	3.45	EPA 6010C
7440-39-3	Barium	134	1		0.0379	0.431	0.862	EPA 6010C
7440-41-7	Beryllium	0.593	1		0.0105	0.0431	0.0862	EPA 6010C
7440-43-9	Cadmium	<0.0862	1	U	0.0310	0.0862	0.172	EPA 6010C
7440-70-2	Calcium	1630	1		2.24	21.6	43.1	EPA 6010C
7440-47-3	Chromium	38.5	1		0.0621	0.431	0.862	EPA 6010C
7440-48-4	Cobalt	4.64	1		0.0604	0.431	0.862	EPA 6010C
7440-50-8	Copper	8.08	1		0.136	0.431	0.862	EPA 6010C
7439-89-6	Iron	14100	1		2.93	4.31	8.62	EPA 6010C
7439-92-1	Lead	12.2	1		0.190	1.72	3.45	EPA 6010C
7439-95-4	Magnesium	2600	1		1.47	21.6	43.1	EPA 6010C
7439-96-5	Manganese	114	1		0.0190	0.862	1.72	EPA 6010C
7440-02-0	Nickel	16.8	1		0.0586	0.431	0.862	EPA 6010C
7440-09-7	Potassium	765	1		8.45	43.1	86.2	EPA 6010C
7782-49-2	Selenium	<1.72	1	U	0.552	1.72	3.45	EPA 6010C
7440-22-4	Silver	<0.431	1	U	0.159	0.431	0.862	EPA 6010C
7440-23-5	Sodium	75.0	1		5.17	21.6	43.1	EPA 6010C
7440-28-0	Thallium	1.29	1	J	0.397	1.72	3.45	EPA 6010C
7440-62-2	Vanadium	31.9	1		0.0673	0.862	1.72	EPA 6010C
7440-66-6	Zinc	27.1	1		0.362	0.862	1.72	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-03
(HPDTA-BG-SB04-03-05-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-02
File ID: 062713a-021
Sampled: 06/19/13 08:10
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:42
Solids: 78.84
Preparation: EPA 3050B
Initial/Final: 0.79 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	14800	1		3.85	16.1	32.1	EPA 6010C
7440-36-0	Antimony	<1.61	1	U	0.787	1.61	3.21	EPA 6010C
7440-38-2	Arsenic	3.09	1	J	0.450	1.61	3.21	EPA 6010C
7440-39-3	Barium	45.2	1		0.0353	0.401	0.803	EPA 6010C
7440-41-7	Beryllium	0.338	1		0.00979	0.0401	0.0803	EPA 6010C
7440-43-9	Cadmium	<0.0803	1	U	0.0289	0.0803	0.161	EPA 6010C
7440-70-2	Calcium	576	1		2.09	20.1	40.1	EPA 6010C
7440-47-3	Chromium	20.9	1		0.0578	0.401	0.803	EPA 6010C
7440-48-4	Cobalt	3.14	1		0.0562	0.401	0.803	EPA 6010C
7440-50-8	Copper	6.68	1		0.127	0.401	0.803	EPA 6010C
7439-89-6	Iron	8210	1		2.73	4.01	8.03	EPA 6010C
7439-92-1	Lead	4.67	1		0.177	1.61	3.21	EPA 6010C
7439-95-4	Magnesium	2370	1		1.37	20.1	40.1	EPA 6010C
7439-96-5	Manganese	66.2	1		0.0177	0.803	1.61	EPA 6010C
7440-02-0	Nickel	10.4	1		0.0546	0.401	0.803	EPA 6010C
7440-09-7	Potassium	725	1		7.87	40.1	80.3	EPA 6010C
7782-49-2	Selenium	<1.61	1	U	0.514	1.61	3.21	EPA 6010C
7440-22-4	Silver	<0.401	1	U	0.148	0.401	0.803	EPA 6010C
7440-23-5	Sodium	76.8	1		4.82	20.1	40.1	EPA 6010C
7440-28-0	Thallium	0.489	1	J	0.369	1.61	3.21	EPA 6010C
7440-62-2	Vanadium	21.4	1		0.0626	0.803	1.61	EPA 6010C
7440-66-6	Zinc	19.6	1		0.337	0.803	1.61	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-04
(HPDTA-BG-SB03-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-03
File ID: 062713a-022
Sampled: 06/19/13 09:15
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:44
Solids: 88.80
Preparation: EPA 3050B
Initial/Final: 0.78 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	8420	1		3.47	14.4	28.9	EPA 6010C
7440-36-0	Antimony	<1.44	1	U	0.707	1.44	2.89	EPA 6010C
7440-38-2	Arsenic	2.05	1	J	0.404	1.44	2.89	EPA 6010C
7440-39-3	Barium	41.7	1		0.0318	0.361	0.722	EPA 6010C
7440-41-7	Beryllium	0.275	1		0.00881	0.0361	0.0722	EPA 6010C
7440-43-9	Cadmium	<0.0722	1	U	0.0260	0.0722	0.144	EPA 6010C
7440-70-2	Calcium	722	1		1.88	18.0	36.1	EPA 6010C
7440-47-3	Chromium	12.6	1		0.0520	0.361	0.722	EPA 6010C
7440-48-4	Cobalt	2.00	1		0.0505	0.361	0.722	EPA 6010C
7440-50-8	Copper	3.55	1		0.114	0.361	0.722	EPA 6010C
7439-89-6	Iron	6240	1		2.45	3.61	7.22	EPA 6010C
7439-92-1	Lead	7.97	1		0.159	1.44	2.89	EPA 6010C
7439-95-4	Magnesium	861	1		1.23	18.0	36.1	EPA 6010C
7439-96-5	Manganese	131	1		0.0159	0.722	1.44	EPA 6010C
7440-02-0	Nickel	4.94	1		0.0491	0.361	0.722	EPA 6010C
7440-09-7	Potassium	219	1		7.07	36.1	72.2	EPA 6010C
7782-49-2	Selenium	<1.44	1	U	0.462	1.44	2.89	EPA 6010C
7440-22-4	Silver	<0.361	1	U	0.133	0.361	0.722	EPA 6010C
7440-23-5	Sodium	63.2	1		4.33	18.0	36.1	EPA 6010C
7440-28-0	Thallium	<1.44	1	U	0.332	1.44	2.89	EPA 6010C
7440-62-2	Vanadium	13.6	1		0.0563	0.722	1.44	EPA 6010C
7440-66-6	Zinc	12.4	1		0.303	0.722	1.44	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-05
(HPDTA-BG-SB03-04-06-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-04
File ID: 062713a-025
Sampled: 06/19/13 09:25
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:50
Solids: 80.76
Preparation: EPA 3050B
Initial/Final: 0.7 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	19400	1		4.25	17.7	35.4	EPA 6010C
7440-36-0	Antimony	<1.77	1	U	0.867	1.77	3.54	EPA 6010C
7440-38-2	Arsenic	2.65	1	J	0.495	1.77	3.54	EPA 6010C
7440-39-3	Barium	53.5	1		0.0389	0.442	0.884	EPA 6010C
7440-41-7	Beryllium	0.440	1		0.0108	0.0442	0.0884	EPA 6010C
7440-43-9	Cadmium	<0.0884	1	U	0.0318	0.0884	0.177	EPA 6010C
7440-70-2	Calcium	535	1		2.30	22.1	44.2	EPA 6010C
7440-47-3	Chromium	23.7	1		0.0637	0.442	0.884	EPA 6010C
7440-48-4	Cobalt	3.36	1		0.0619	0.442	0.884	EPA 6010C
7440-50-8	Copper	5.49	1		0.140	0.442	0.884	EPA 6010C
7439-89-6	Iron	9350	1		3.01	4.42	8.84	EPA 6010C
7439-92-1	Lead	6.58	1		0.195	1.77	3.54	EPA 6010C
7439-95-4	Magnesium	2090	1		1.51	22.1	44.2	EPA 6010C
7439-96-5	Manganese	70.9	1		0.0195	0.884	1.77	EPA 6010C
7440-02-0	Nickel	10.4	1		0.0601	0.442	0.884	EPA 6010C
7440-09-7	Potassium	614	1		8.67	44.2	88.4	EPA 6010C
7782-49-2	Selenium	<1.77	1	U	0.566	1.77	3.54	EPA 6010C
7440-22-4	Silver	<0.442	1	U	0.163	0.442	0.884	EPA 6010C
7440-23-5	Sodium	136	1		5.31	22.1	44.2	EPA 6010C
7440-28-0	Thallium	0.519	1	J	0.407	1.77	3.54	EPA 6010C
7440-62-2	Vanadium	23.5	1		0.0690	0.884	1.77	EPA 6010C
7440-66-6	Zinc	21.4	1		0.371	0.884	1.77	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-06
(TR-2ND-SB07-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-05
File ID: 062713a-026
Sampled: 06/19/13 10:20
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:52
Solids: 84.46
Preparation: EPA 3050B
Initial/Final: 0.89 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	13000	1		3.19	13.3	26.6	EPA 6010C
7440-36-0	Antimony	<1.33	1	U	0.652	1.33	2.66	EPA 6010C
7440-38-2	Arsenic	2.29	1	J	0.372	1.33	2.66	EPA 6010C
7440-39-3	Barium	63.0	1		0.0293	0.333	0.665	EPA 6010C
7440-41-7	Beryllium	0.409	1		0.00812	0.0333	0.0665	EPA 6010C
7440-43-9	Cadmium	<0.0665	1	U	0.0239	0.0665	0.133	EPA 6010C
7440-70-2	Calcium	576	1		1.73	16.6	33.3	EPA 6010C
7440-47-3	Chromium	19.4	1		0.0479	0.333	0.665	EPA 6010C
7440-48-4	Cobalt	2.85	1		0.0466	0.333	0.665	EPA 6010C
7440-50-8	Copper	5.43	1		0.105	0.333	0.665	EPA 6010C
7439-89-6	Iron	6620	1		2.26	3.33	6.65	EPA 6010C
7439-92-1	Lead	6.65	1		0.146	1.33	2.66	EPA 6010C
7439-95-4	Magnesium	1630	1		1.14	16.6	33.3	EPA 6010C
7439-96-5	Manganese	189	1		0.0146	0.665	1.33	EPA 6010C
7440-02-0	Nickel	8.41	1		0.0452	0.333	0.665	EPA 6010C
7440-09-7	Potassium	579	1		6.52	33.3	66.5	EPA 6010C
7782-49-2	Selenium	<1.33	1	U	0.426	1.33	2.66	EPA 6010C
7440-22-4	Silver	<0.333	1	U	0.122	0.333	0.665	EPA 6010C
7440-23-5	Sodium	55.6	1		3.99	16.6	33.3	EPA 6010C
7440-28-0	Thallium	0.489	1	J	0.306	1.33	2.66	EPA 6010C
7440-62-2	Vanadium	17.1	1		0.0519	0.665	1.33	EPA 6010C
7440-66-6	Zinc	17.4	1		0.279	0.665	1.33	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-07
(TR-2ND-SB07-04-06-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-06
File ID: 062713a-027
Sampled: 06/19/13 10:40
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:54
Solids: 80.68
Preparation: EPA 3050B
Initial/Final: 0.89 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	17800	1		3.34	13.9	27.9	EPA 6010C
7440-36-0	Antimony	<1.39	1	U	0.682	1.39	2.79	EPA 6010C
7440-38-2	Arsenic	3.09	1		0.390	1.39	2.79	EPA 6010C
7440-39-3	Barium	69.5	1		0.0306	0.348	0.696	EPA 6010C
7440-41-7	Beryllium	0.428	1		0.00850	0.0348	0.0696	EPA 6010C
7440-43-9	Cadmium	<0.0696	1	U	0.0251	0.0696	0.139	EPA 6010C
7440-70-2	Calcium	594	1		1.81	17.4	34.8	EPA 6010C
7440-47-3	Chromium	23.3	1		0.0501	0.348	0.696	EPA 6010C
7440-48-4	Cobalt	3.53	1		0.0487	0.348	0.696	EPA 6010C
7440-50-8	Copper	7.24	1		0.110	0.348	0.696	EPA 6010C
7439-89-6	Iron	8470	1		2.37	3.48	6.96	EPA 6010C
7439-92-1	Lead	6.07	1		0.153	1.39	2.79	EPA 6010C
7439-95-4	Magnesium	2130	1		1.19	17.4	34.8	EPA 6010C
7439-96-5	Manganese	124	1		0.0153	0.696	1.39	EPA 6010C
7440-02-0	Nickel	10.8	1		0.0474	0.348	0.696	EPA 6010C
7440-09-7	Potassium	732	1		6.82	34.8	69.6	EPA 6010C
7782-49-2	Selenium	<1.39	1	U	0.446	1.39	2.79	EPA 6010C
7440-22-4	Silver	<0.348	1	U	0.128	0.348	0.696	EPA 6010C
7440-23-5	Sodium	76.3	1		4.18	17.4	34.8	EPA 6010C
7440-28-0	Thallium	0.542	1	J	0.320	1.39	2.79	EPA 6010C
7440-62-2	Vanadium	21.9	1		0.0543	0.696	1.39	EPA 6010C
7440-66-6	Zinc	20.4	1		0.292	0.696	1.39	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-09
(TR-2ND-SB06-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-07
File ID: 062713a-028
Sampled: 06/19/13 11:20
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:56
Solids: 84.06
Preparation: EPA 3050B
Initial/Final: 0.82 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	12300	1		3.48	14.5	29.0	EPA 6010C
7440-36-0	Antimony	<1.45	1	U	0.711	1.45	2.90	EPA 6010C
7440-38-2	Arsenic	3.10	1		0.406	1.45	2.90	EPA 6010C
7440-39-3	Barium	72.2	1		0.0319	0.363	0.725	EPA 6010C
7440-41-7	Beryllium	0.422	1		0.00885	0.0363	0.0725	EPA 6010C
7440-43-9	Cadmium	0.556	1		0.0261	0.0725	0.145	EPA 6010C
7440-70-2	Calcium	2110	1		1.89	18.1	36.3	EPA 6010C
7440-47-3	Chromium	17.8	1		0.0522	0.363	0.725	EPA 6010C
7440-48-4	Cobalt	3.53	1		0.0508	0.363	0.725	EPA 6010C
7440-50-8	Copper	20.1	1		0.115	0.363	0.725	EPA 6010C
7439-89-6	Iron	7250	1		2.47	3.63	7.25	EPA 6010C
7439-92-1	Lead	25.9	1		0.160	1.45	2.90	EPA 6010C
7439-95-4	Magnesium	1300	1		1.24	18.1	36.3	EPA 6010C
7439-96-5	Manganese	225	1		0.0160	0.725	1.45	EPA 6010C
7440-02-0	Nickel	8.78	1		0.0493	0.363	0.725	EPA 6010C
7440-09-7	Potassium	533	1		7.11	36.3	72.5	EPA 6010C
7782-49-2	Selenium	<1.45	1	U	0.464	1.45	2.90	EPA 6010C
7440-22-4	Silver	<0.363	1	U	0.133	0.363	0.725	EPA 6010C
7440-23-5	Sodium	35.7	1	J	4.35	18.1	36.3	EPA 6010C
7440-28-0	Thallium	<1.45	1	U	0.334	1.45	2.90	EPA 6010C
7440-62-2	Vanadium	15.9	1		0.0566	0.725	1.45	EPA 6010C
7440-66-6	Zinc	46.0	1		0.305	0.725	1.45	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-10
(TR-2ND-SB06-05-07-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-08
File ID: 062713a-029
Sampled: 06/19/13 11:30
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:58
Solids: 79.06
Preparation: EPA 3050B
Initial/Final: 0.84 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	18600	1		3.61	15.1	30.1	EPA 6010C
7440-36-0	Antimony	<1.51	1	U	0.738	1.51	3.01	EPA 6010C
7440-38-2	Arsenic	2.85	1	J	0.422	1.51	3.01	EPA 6010C
7440-39-3	Barium	66.9	1		0.0331	0.376	0.753	EPA 6010C
7440-41-7	Beryllium	0.502	1		0.00919	0.0376	0.0753	EPA 6010C
7440-43-9	Cadmium	<0.0753	1	U	0.0271	0.0753	0.151	EPA 6010C
7440-70-2	Calcium	1090	1		1.96	18.8	37.6	EPA 6010C
7440-47-3	Chromium	23.5	1		0.0542	0.376	0.753	EPA 6010C
7440-48-4	Cobalt	3.28	1		0.0527	0.376	0.753	EPA 6010C
7440-50-8	Copper	6.27	1		0.119	0.376	0.753	EPA 6010C
7439-89-6	Iron	8580	1		2.56	3.76	7.53	EPA 6010C
7439-92-1	Lead	7.37	1		0.166	1.51	3.01	EPA 6010C
7439-95-4	Magnesium	1970	1		1.29	18.8	37.6	EPA 6010C
7439-96-5	Manganese	114	1		0.0166	0.753	1.51	EPA 6010C
7440-02-0	Nickel	10.7	1		0.0512	0.376	0.753	EPA 6010C
7440-09-7	Potassium	643	1		7.38	37.6	75.3	EPA 6010C
7782-49-2	Selenium	<1.51	1	U	0.482	1.51	3.01	EPA 6010C
7440-22-4	Silver	<0.376	1	U	0.139	0.376	0.753	EPA 6010C
7440-23-5	Sodium	52.8	1		4.52	18.8	37.6	EPA 6010C
7440-28-0	Thallium	0.511	1	J	0.346	1.51	3.01	EPA 6010C
7440-62-2	Vanadium	23.9	1		0.0587	0.753	1.51	EPA 6010C
7440-66-6	Zinc	21.4	1		0.316	0.753	1.51	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-11
(TR-2ND-SB06D-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-09
File ID: 062713a-030
Sampled: 06/19/13 11:25
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 10:59
Solids: 83.39
Preparation: EPA 3050B
Initial/Final: 0.96 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	11800	1		2.88	12.0	24.0	EPA 6010C
7440-36-0	Antimony	<1.20	1	U	0.588	1.20	2.40	EPA 6010C
7440-38-2	Arsenic	2.30	1	J	0.336	1.20	2.40	EPA 6010C
7440-39-3	Barium	102	1		0.0264	0.300	0.600	EPA 6010C
7440-41-7	Beryllium	0.639	1		0.00732	0.0300	0.0600	EPA 6010C
7440-43-9	Cadmium	0.0414	1	J	0.0216	0.0600	0.120	EPA 6010C
7440-70-2	Calcium	1060	1		1.56	15.0	30.0	EPA 6010C
7440-47-3	Chromium	13.1	1		0.0432	0.300	0.600	EPA 6010C
7440-48-4	Cobalt	3.25	1		0.0420	0.300	0.600	EPA 6010C
7440-50-8	Copper	2.37	1		0.0947	0.300	0.600	EPA 6010C
7439-89-6	Iron	5920	1		2.04	3.00	6.00	EPA 6010C
7439-92-1	Lead	6.71	1		0.132	1.20	2.40	EPA 6010C
7439-95-4	Magnesium	1130	1		1.03	15.0	30.0	EPA 6010C
7439-96-5	Manganese	1140	1		0.0132	0.600	1.20	EPA 6010C
7440-02-0	Nickel	7.61	1		0.0408	0.300	0.600	EPA 6010C
7440-09-7	Potassium	317	1		5.88	30.0	60.0	EPA 6010C
7782-49-2	Selenium	<1.20	1	U	0.384	1.20	2.40	EPA 6010C
7440-22-4	Silver	<0.300	1	U	0.110	0.300	0.600	EPA 6010C
7440-23-5	Sodium	35.3	1		3.60	15.0	30.0	EPA 6010C
7440-28-0	Thallium	<1.20	1	U	0.276	1.20	2.40	EPA 6010C
7440-62-2	Vanadium	12.1	1		0.0468	0.600	1.20	EPA 6010C
7440-66-6	Zinc	17.9	1		0.252	0.600	1.20	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-12
(TR-2ND-SB06D-05-07-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-10
File ID: 062713a-031
Sampled: 06/19/13 11:35
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:01
Solids: 78.23
Preparation: EPA 3050B
Initial/Final: 1.08 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	17000	1		3.07	12.8	25.6	EPA 6010C
7440-36-0	Antimony	<1.28	1	U	0.626	1.28	2.56	EPA 6010C
7440-38-2	Arsenic	2.47	1	J	0.358	1.28	2.56	EPA 6010C
7440-39-3	Barium	52.9	1		0.0281	0.320	0.639	EPA 6010C
7440-41-7	Beryllium	0.435	1		0.00780	0.0320	0.0639	EPA 6010C
7440-43-9	Cadmium	<0.0639	1	U	0.0230	0.0639	0.128	EPA 6010C
7440-70-2	Calcium	998	1		1.66	16.0	32.0	EPA 6010C
7440-47-3	Chromium	22.8	1		0.0460	0.320	0.639	EPA 6010C
7440-48-4	Cobalt	3.21	1		0.0447	0.320	0.639	EPA 6010C
7440-50-8	Copper	6.47	1		0.101	0.320	0.639	EPA 6010C
7439-89-6	Iron	8490	1		2.17	3.20	6.39	EPA 6010C
7439-92-1	Lead	7.40	1		0.141	1.28	2.56	EPA 6010C
7439-95-4	Magnesium	2000	1		1.09	16.0	32.0	EPA 6010C
7439-96-5	Manganese	119	1		0.0141	0.639	1.28	EPA 6010C
7440-02-0	Nickel	10.1	1		0.0435	0.320	0.639	EPA 6010C
7440-09-7	Potassium	643	1		6.26	32.0	63.9	EPA 6010C
7782-49-2	Selenium	<1.28	1	U	0.409	1.28	2.56	EPA 6010C
7440-22-4	Silver	<0.320	1	U	0.118	0.320	0.639	EPA 6010C
7440-23-5	Sodium	52.1	1		3.83	16.0	32.0	EPA 6010C
7440-28-0	Thallium	<1.28	1	U	0.294	1.28	2.56	EPA 6010C
7440-62-2	Vanadium	24.5	1		0.0499	0.639	1.28	EPA 6010C
7440-66-6	Zinc	21.8	1		0.268	0.639	1.28	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-14
(TR-2ND-SB04-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-11
File ID: 062713a-032
Sampled: 06/19/13 12:50
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:02
Solids: 85.68
Preparation: EPA 3050B
Initial/Final: 0.87 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	20800	1		3.22	13.4	26.8	EPA 6010C
7440-36-0	Antimony	<1.34	1	U	0.657	1.34	2.68	EPA 6010C
7440-38-2	Arsenic	3.49	1		0.376	1.34	2.68	EPA 6010C
7440-39-3	Barium	114	1		0.0295	0.335	0.671	EPA 6010C
7440-41-7	Beryllium	0.490	1		0.00818	0.0335	0.0671	EPA 6010C
7440-43-9	Cadmium	1.05	1		0.0241	0.0671	0.134	EPA 6010C
7440-70-2	Calcium	3530	1		1.74	16.8	33.5	EPA 6010C
7440-47-3	Chromium	26.8	1		0.0483	0.335	0.671	EPA 6010C
7440-48-4	Cobalt	4.82	1		0.0470	0.335	0.671	EPA 6010C
7440-50-8	Copper	77.2	1		0.106	0.335	0.671	EPA 6010C
7439-89-6	Iron	11300	1		2.28	3.35	6.71	EPA 6010C
7439-92-1	Lead	48.3	1		0.148	1.34	2.68	EPA 6010C
7439-95-4	Magnesium	1870	1		1.15	16.8	33.5	EPA 6010C
7439-96-5	Manganese	167	1		0.0148	0.671	1.34	EPA 6010C
7440-02-0	Nickel	12.9	1		0.0456	0.335	0.671	EPA 6010C
7440-09-7	Potassium	826	1		6.57	33.5	67.1	EPA 6010C
7782-49-2	Selenium	<1.34	1	U	0.429	1.34	2.68	EPA 6010C
7440-22-4	Silver	0.143	1	J	0.123	0.335	0.671	EPA 6010C
7440-23-5	Sodium	86.2	1		4.02	16.8	33.5	EPA 6010C
7440-28-0	Thallium	0.398	1	J	0.309	1.34	2.68	EPA 6010C
7440-62-2	Vanadium	20.6	1		0.0523	0.671	1.34	EPA 6010C
7440-66-6	Zinc	106	1		0.282	0.671	1.34	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-15
(TR-2ND-SB04-04-06-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-12
File ID: 062713a-033
Sampled: 06/19/13 13:00
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:03
Solids: 79.34
Preparation: EPA 3050B
Initial/Final: 0.77 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	12500	1		3.93	16.4	32.7	EPA 6010C
7440-36-0	Antimony	<1.64	1	U	0.802	1.64	3.27	EPA 6010C
7440-38-2	Arsenic	2.58	1	J	0.458	1.64	3.27	EPA 6010C
7440-39-3	Barium	49.5	1		0.0360	0.409	0.818	EPA 6010C
7440-41-7	Beryllium	0.319	1		0.00998	0.0409	0.0818	EPA 6010C
7440-43-9	Cadmium	0.264	1		0.0295	0.0818	0.164	EPA 6010C
7440-70-2	Calcium	1190	1		2.13	20.5	40.9	EPA 6010C
7440-47-3	Chromium	20.7	1		0.0589	0.409	0.818	EPA 6010C
7440-48-4	Cobalt	2.96	1		0.0573	0.409	0.818	EPA 6010C
7440-50-8	Copper	20.6	1		0.129	0.409	0.818	EPA 6010C
7439-89-6	Iron	8440	1		2.78	4.09	8.18	EPA 6010C
7439-92-1	Lead	22.1	1		0.180	1.64	3.27	EPA 6010C
7439-95-4	Magnesium	2140	1		1.40	20.5	40.9	EPA 6010C
7439-96-5	Manganese	77.3	1		0.0180	0.818	1.64	EPA 6010C
7440-02-0	Nickel	9.30	1		0.0557	0.409	0.818	EPA 6010C
7440-09-7	Potassium	711	1		8.02	40.9	81.8	EPA 6010C
7782-49-2	Selenium	<1.64	1	U	0.524	1.64	3.27	EPA 6010C
7440-22-4	Silver	0.328	1	J	0.151	0.409	0.818	EPA 6010C
7440-23-5	Sodium	56.8	1		4.91	20.5	40.9	EPA 6010C
7440-28-0	Thallium	0.493	1	J	0.376	1.64	3.27	EPA 6010C
7440-62-2	Vanadium	18.1	1		0.0638	0.818	1.64	EPA 6010C
7440-66-6	Zinc	117	1		0.344	0.818	1.64	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-17
(TR-2ND-SB05-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-13
File ID: 062713a-034
Sampled: 06/19/13 13:30
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:05
Solids: 75.47
Preparation: EPA 3050B
Initial/Final: 1.03 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	14500	5	D	15.9	66.3	133	EPA 6010C
7440-36-0	Antimony	8.95	5	JD	3.25	6.63	13.3	EPA 6010C
7440-38-2	Arsenic	9.45	5	JD	1.86	6.63	13.3	EPA 6010C
7440-39-3	Barium	251	5	D	0.146	1.66	3.31	EPA 6010C
7440-41-7	Beryllium	0.317	5	JD	0.0404	0.166	0.331	EPA 6010C
7440-43-9	Cadmium	3.94	5	D	0.119	0.331	0.663	EPA 6010C
7440-70-2	Calcium	22200	5	D	8.61	82.8	166	EPA 6010C
7440-47-3	Chromium	43.4	5	D	0.239	1.66	3.31	EPA 6010C
7440-48-4	Cobalt	5.98	5	D	0.232	1.66	3.31	EPA 6010C
7440-50-8	Copper	426	5	D	0.523	1.66	3.31	EPA 6010C
7439-89-6	Iron	30100	5	D	11.3	16.6	33.1	EPA 6010C
7439-92-1	Lead	2110	5	D	0.729	6.63	13.3	EPA 6010C
7439-95-4	Magnesium	1810	5	D	5.66	82.8	166	EPA 6010C
7439-96-5	Manganese	474	5	D	0.0729	3.31	6.63	EPA 6010C
7440-02-0	Nickel	27.6	5	D	0.225	1.66	3.31	EPA 6010C
7440-09-7	Potassium	852	5	D	32.5	166	331	EPA 6010C
7782-49-2	Selenium	<6.63	5	UD	2.12	6.63	13.3	EPA 6010C
7440-22-4	Silver	8.87	5	D	0.610	1.66	3.31	EPA 6010C
7440-23-5	Sodium	197	5	D	19.9	82.8	166	EPA 6010C
7440-28-0	Thallium	<6.63	5	UD	1.52	6.63	13.3	EPA 6010C
7440-62-2	Vanadium	18.5	5	D	0.258	3.31	6.63	EPA 6010C
7440-66-6	Zinc	1940	5	D	1.39	3.31	6.63	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-18
(TR-2ND-SB05-03-05-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-14
File ID: 062713a-037
Sampled: 06/19/13 13:40
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:11
Solids: 75.96
Preparation: EPA 3050B
Initial/Final: 0.86 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	18500	1		3.67	15.3	30.6	EPA 6010C
7440-36-0	Antimony	<1.53	1	U	0.750	1.53	3.06	EPA 6010C
7440-38-2	Arsenic	3.30	1		0.429	1.53	3.06	EPA 6010C
7440-39-3	Barium	70.0	1		0.0337	0.383	0.765	EPA 6010C
7440-41-7	Beryllium	0.349	1		0.00934	0.0383	0.0765	EPA 6010C
7440-43-9	Cadmium	0.118	1	J	0.0276	0.0765	0.153	EPA 6010C
7440-70-2	Calcium	1490	1		1.99	19.1	38.3	EPA 6010C
7440-47-3	Chromium	25.4	1		0.0551	0.383	0.765	EPA 6010C
7440-48-4	Cobalt	3.39	1		0.0536	0.383	0.765	EPA 6010C
7440-50-8	Copper	30.1	1		0.121	0.383	0.765	EPA 6010C
7439-89-6	Iron	9400	1		2.60	3.83	7.65	EPA 6010C
7439-92-1	Lead	20.3	1		0.168	1.53	3.06	EPA 6010C
7439-95-4	Magnesium	2390	1		1.31	19.1	38.3	EPA 6010C
7439-96-5	Manganese	94.5	1		0.0168	0.765	1.53	EPA 6010C
7440-02-0	Nickel	13.2	1		0.0520	0.383	0.765	EPA 6010C
7440-09-7	Potassium	941	1		7.50	38.3	76.5	EPA 6010C
7782-49-2	Selenium	<1.53	1	U	0.490	1.53	3.06	EPA 6010C
7440-22-4	Silver	<0.383	1	U	0.141	0.383	0.765	EPA 6010C
7440-23-5	Sodium	225	1		4.59	19.1	38.3	EPA 6010C
7440-28-0	Thallium	0.431	1	J	0.352	1.53	3.06	EPA 6010C
7440-62-2	Vanadium	20.4	1		0.0597	0.765	1.53	EPA 6010C
7440-66-6	Zinc	670	1		0.321	0.765	1.53	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-19
(TR-2ND-SB03-0.5-01-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-15
File ID: 062713a-038
Sampled: 06/19/13 14:00
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:12
Solids: 76.63
Preparation: EPA 3050B
Initial/Final: 0.96 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	19300	1		3.13	13.0	26.1	EPA 6010C
7440-36-0	Antimony	<1.30	1	U	0.639	1.30	2.61	EPA 6010C
7440-38-2	Arsenic	3.74	1		0.365	1.30	2.61	EPA 6010C
7440-39-3	Barium	65.3	1		0.0287	0.326	0.652	EPA 6010C
7440-41-7	Beryllium	0.420	1		0.00796	0.0326	0.0652	EPA 6010C
7440-43-9	Cadmium	<0.0652	1	U	0.0235	0.0652	0.130	EPA 6010C
7440-70-2	Calcium	1680	1		1.70	16.3	32.6	EPA 6010C
7440-47-3	Chromium	24.2	1		0.0470	0.326	0.652	EPA 6010C
7440-48-4	Cobalt	3.91	1		0.0457	0.326	0.652	EPA 6010C
7440-50-8	Copper	9.13	1		0.103	0.326	0.652	EPA 6010C
7439-89-6	Iron	8830	1		2.22	3.26	6.52	EPA 6010C
7439-92-1	Lead	6.73	1		0.144	1.30	2.61	EPA 6010C
7439-95-4	Magnesium	2310	1		1.12	16.3	32.6	EPA 6010C
7439-96-5	Manganese	81.1	1		0.0144	0.652	1.30	EPA 6010C
7440-02-0	Nickel	13.3	1		0.0444	0.326	0.652	EPA 6010C
7440-09-7	Potassium	938	1		6.39	32.6	65.2	EPA 6010C
7782-49-2	Selenium	<1.30	1	U	0.418	1.30	2.61	EPA 6010C
7440-22-4	Silver	<0.326	1	U	0.120	0.326	0.652	EPA 6010C
7440-23-5	Sodium	74.3	1		3.91	16.3	32.6	EPA 6010C
7440-28-0	Thallium	0.834	1	J	0.300	1.30	2.61	EPA 6010C
7440-62-2	Vanadium	20.6	1		0.0509	0.652	1.30	EPA 6010C
7440-66-6	Zinc	22.5	1		0.274	0.652	1.30	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-20
(TR-2ND-SB03-04-06-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-16
File ID: 062713a-039
Sampled: 06/19/13 14:10
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:13
Solids: 80.94
Preparation: EPA 3050B
Initial/Final: 1.09 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	13600	1		2.97	12.4	24.7	EPA 6010C
7440-36-0	Antimony	<1.24	1	U	0.605	1.24	2.47	EPA 6010C
7440-38-2	Arsenic	3.06	1		0.346	1.24	2.47	EPA 6010C
7440-39-3	Barium	43.8	1		0.0272	0.309	0.618	EPA 6010C
7440-41-7	Beryllium	0.287	1		0.00754	0.0309	0.0618	EPA 6010C
7440-43-9	Cadmium	<0.0618	1	U	0.0222	0.0618	0.124	EPA 6010C
7440-70-2	Calcium	1230	1		1.61	15.4	30.9	EPA 6010C
7440-47-3	Chromium	21.5	1		0.0445	0.309	0.618	EPA 6010C
7440-48-4	Cobalt	3.28	1		0.0432	0.309	0.618	EPA 6010C
7440-50-8	Copper	9.56	1		0.0976	0.309	0.618	EPA 6010C
7439-89-6	Iron	7540	1		2.10	3.09	6.18	EPA 6010C
7439-92-1	Lead	7.82	1		0.136	1.24	2.47	EPA 6010C
7439-95-4	Magnesium	2150	1		1.06	15.4	30.9	EPA 6010C
7439-96-5	Manganese	77.6	1		0.0136	0.618	1.24	EPA 6010C
7440-02-0	Nickel	10.3	1		0.0420	0.309	0.618	EPA 6010C
7440-09-7	Potassium	772	1		6.05	30.9	61.8	EPA 6010C
7782-49-2	Selenium	<1.24	1	U	0.395	1.24	2.47	EPA 6010C
7440-22-4	Silver	<0.309	1	U	0.114	0.309	0.618	EPA 6010C
7440-23-5	Sodium	61.8	1		3.71	15.4	30.9	EPA 6010C
7440-28-0	Thallium	<1.24	1	U	0.284	1.24	2.47	EPA 6010C
7440-62-2	Vanadium	18.5	1		0.0482	0.618	1.24	EPA 6010C
7440-66-6	Zinc	26.7	1		0.259	0.618	1.24	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-21
(TR-2ND-SB02-0.5-1-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-17
File ID: 062713a-040
Sampled: 06/19/13 14:15
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:14
Solids: 86.11
Preparation: EPA 3050B
Initial/Final: 0.87 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	15600	1		3.20	13.3	26.7	EPA 6010C
7440-36-0	Antimony	<1.33	1	U	0.654	1.33	2.67	EPA 6010C
7440-38-2	Arsenic	3.53	1		0.374	1.33	2.67	EPA 6010C
7440-39-3	Barium	51.6	1		0.0294	0.334	0.667	EPA 6010C
7440-41-7	Beryllium	0.384	1		0.00814	0.0334	0.0667	EPA 6010C
7440-43-9	Cadmium	<0.0667	1	U	0.0240	0.0667	0.133	EPA 6010C
7440-70-2	Calcium	1260	1		1.74	16.7	33.4	EPA 6010C
7440-47-3	Chromium	24.6	1		0.0481	0.334	0.667	EPA 6010C
7440-48-4	Cobalt	3.59	1		0.0467	0.334	0.667	EPA 6010C
7440-50-8	Copper	7.17	1		0.105	0.334	0.667	EPA 6010C
7439-89-6	Iron	9210	1		2.27	3.34	6.67	EPA 6010C
7439-92-1	Lead	7.70	1		0.147	1.33	2.67	EPA 6010C
7439-95-4	Magnesium	2010	1		1.14	16.7	33.4	EPA 6010C
7439-96-5	Manganese	77.7	1		0.0147	0.667	1.33	EPA 6010C
7440-02-0	Nickel	9.60	1		0.0454	0.334	0.667	EPA 6010C
7440-09-7	Potassium	707	1		6.54	33.4	66.7	EPA 6010C
7782-49-2	Selenium	<1.33	1	U	0.427	1.33	2.67	EPA 6010C
7440-22-4	Silver	<0.334	1	U	0.123	0.334	0.667	EPA 6010C
7440-23-5	Sodium	59.1	1		4.00	16.7	33.4	EPA 6010C
7440-28-0	Thallium	0.863	1	J	0.307	1.33	2.67	EPA 6010C
7440-62-2	Vanadium	25.1	1		0.0521	0.667	1.33	EPA 6010C
7440-66-6	Zinc	22.8	1		0.280	0.667	1.33	EPA 6010C

INORGANIC ANALYSIS DATA SHEET

EPA 6010C

A303499-22
(TR-2ND-SB02-0.6-08-0613)

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix: Soil
Laboratory ID: B302882-18
File ID: 062713a-041
Sampled: 06/19/13 14:30
Prepared: 06/24/13 09:43
Analyzed: 06/27/13 11:15
Solids: 72.13
Preparation: EPA 3050B
Initial/Final: 0.95 g / 50 mL
Batch: 3F24008
Sequence: BA14232
Calibration: 1306019
Instrument: JMICP2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	DL	LOD	LOQ	Method
7429-90-5	Aluminum	10500	1		3.33	13.9	27.7	EPA 6010C
7440-36-0	Antimony	7.12	1		0.679	1.39	2.77	EPA 6010C
7440-38-2	Arsenic	4.92	1		0.388	1.39	2.77	EPA 6010C
7440-39-3	Barium	103	1		0.0305	0.347	0.693	EPA 6010C
7440-41-7	Beryllium	0.320	1		0.00846	0.0347	0.0693	EPA 6010C
7440-43-9	Cadmium	2.24	1		0.0250	0.0693	0.139	EPA 6010C
7440-70-2	Calcium	15900	1		1.80	17.3	34.7	EPA 6010C
7440-47-3	Chromium	21.4	1		0.0499	0.347	0.693	EPA 6010C
7440-48-4	Cobalt	6.86	1		0.0485	0.347	0.693	EPA 6010C
7440-50-8	Copper	96.8	1		0.110	0.347	0.693	EPA 6010C
7439-89-6	Iron	15200	1		2.36	3.47	6.93	EPA 6010C
7439-92-1	Lead	213	1		0.153	1.39	2.77	EPA 6010C
7439-95-4	Magnesium	1620	1		1.19	17.3	34.7	EPA 6010C
7439-96-5	Manganese	267	1		0.0153	0.693	1.39	EPA 6010C
7440-02-0	Nickel	12.2	1		0.0471	0.347	0.693	EPA 6010C
7440-09-7	Potassium	968	1		6.79	34.7	69.3	EPA 6010C
7782-49-2	Selenium	<1.39	1	U	0.444	1.39	2.77	EPA 6010C
7440-22-4	Silver	1.01	1		0.128	0.347	0.693	EPA 6010C
7440-23-5	Sodium	220	1		4.16	17.3	34.7	EPA 6010C
7440-28-0	Thallium	<1.39	1	U	0.319	1.39	2.77	EPA 6010C
7440-62-2	Vanadium	19.0	1		0.0541	0.693	1.39	EPA 6010C
7440-66-6	Zinc	527	1		0.291	0.693	1.39	EPA 6010C

PREPARATION BATCH SUMMARY

EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Batch: 3F24008
Batch Matrix: Soil
Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	3F24008-BLK1	062713a-017	06/24/13 09:43	
LCS	3F24008-BS1	062713a-018	06/24/13 09:43	
LCS Dup	3F24008-BSD1	062713a-019	06/24/13 09:43	
A303499-02 (HPDTA-BG-SB04-0.5-01-06 13)	B302882-01	062713a-020	06/24/13 09:43	
A303499-03 (HPDTA-BG-SB04-03-05-061 3)	B302882-02	062713a-021	06/24/13 09:43	
A303499-04 (HPDTA-BG-SB03-0.5-01-06 13)	B302882-03	062713a-022	06/24/13 09:43	
A303499-05 (HPDTA-BG-SB03-04-06-061 3)	B302882-04	062713a-025	06/24/13 09:43	
A303499-06 (TR-2ND-SB07-0.5-01-0613)	B302882-05	062713a-026	06/24/13 09:43	
A303499-07 (TR-2ND-SB07-04-06-0613)	B302882-06	062713a-027	06/24/13 09:43	
A303499-09 (TR-2ND-SB06-0.5-01-0613)	B302882-07	062713a-028	06/24/13 09:43	
A303499-10 (TR-2ND-SB06-05-07-0613)	B302882-08	062713a-029	06/24/13 09:43	
A303499-11 (TR-2ND-SB06D-0.5-01-0613)	B302882-09	062713a-030	06/24/13 09:43	
A303499-12 (TR-2ND-SB06D-05-07-0613)	B302882-10	062713a-031	06/24/13 09:43	
A303499-14 (TR-2ND-SB04-0.5-01-0613)	B302882-11	062713a-032	06/24/13 09:43	
A303499-15 (TR-2ND-SB04-04-06-0613)	B302882-12	062713a-033	06/24/13 09:43	
A303499-17 (TR-2ND-SB05-0.5-01-0613)	B302882-13	062713a-034	06/24/13 09:43	
A303499-18 (TR-2ND-SB05-03-05-0613)	B302882-14	062713a-037	06/24/13 09:43	
A303499-19 (TR-2ND-SB03-0.5-01-0613)	B302882-15	062713a-038	06/24/13 09:43	
A303499-20 (TR-2ND-SB03-04-06-0613)	B302882-16	062713a-039	06/24/13 09:43	
A303499-21 (TR-2ND-SB02-0.5-1-0613)	B302882-17	062713a-040	06/24/13 09:43	
A303499-22 (TR-2ND-SB02-0.6-08-0613)	B302882-18	062713a-041	06/24/13 09:43	

METHOD BLANK DATA SHEET
EPA 6010C

Laboratory:	ENCO Jacksonville			SDG:	A303499-CTO0020
Client:	ENCO Orlando			Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil	Laboratory ID:	3F24008-BLK1	File ID:	062713a-017
Prepared:	06/24/13 09:43	Preparation:	EPA 3050B	Initial/Final:	0.62 g / 50 mL
Analyzed:	06/27/13 10:35	Instrument:	JMICP2		
Batch:	3F24008	Sequence:	BA14232	Calibration:	1306019

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7429-90-5	Aluminum	<16.1	U
7440-36-0	Antimony	<1.61	U
7440-38-2	Arsenic	<1.61	U
7440-39-3	Barium	<0.403	U
7440-41-7	Beryllium	<0.0403	U
7440-43-9	Cadmium	0.0311	J
7440-70-2	Calcium	3.59	J
7440-47-3	Chromium	<0.403	U
7440-48-4	Cobalt	<0.403	U
7440-50-8	Copper	<0.403	U
7439-89-6	Iron	<4.03	U
7439-92-1	Lead	<1.61	U
7439-95-4	Magnesium	1.82	J
7439-96-5	Manganese	<0.806	U
7440-02-0	Nickel	<0.403	U
7440-09-7	Potassium	9.43	J
7782-49-2	Selenium	<1.61	U
7440-22-4	Silver	<0.403	U
7440-23-5	Sodium	<20.2	U
7440-28-0	Thallium	<1.61	U
7440-62-2	Vanadium	<0.806	U
7440-66-6	Zinc	<0.806	U

LCS / LCS DUPLICATE RECOVERY

EPA 6010C

Laboratory:	ENCO Jacksonville	SDG:	A303499-CTO0020
Client:	ENCO Orlando	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F24008	Laboratory ID:	3F24008-BS1
Preparation:	EPA 3050B	Initial/Final:	0.69 g / 50 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Aluminum	362	363	100	80 - 120
Antimony	36.2	34.1	94	80 - 120
Arsenic	36.2	34.2	94	80 - 120
Barium	36.2	34.7	96	80 - 120
Beryllium	3.62	3.50	97	80 - 120
Cadmium	3.62	3.53	98	80 - 120
Calcium	362	358	99	80 - 120
Chromium	36.2	35.5	98	80 - 120
Cobalt	36.2	35.5	98	80 - 120
Copper	36.2	35.9	99	80 - 120
Iron	181	177	97	80 - 120
Lead	36.2	35.3	98	80 - 120
Magnesium	362	349	96	80 - 120
Manganese	36.2	35.0	97	80 - 120
Nickel	36.2	35.4	98	80 - 120
Potassium	1810	1720	95	80 - 120
Selenium	36.2	34.1	94	80 - 120
Silver	7.25	7.13	98	80 - 120
Sodium	1810	1750	96	80 - 120
Thallium	36.2	35.9	99	80 - 120
Vanadium	36.2	36.3	100	80 - 120
Zinc	36.2	36.5	101	80 - 120

COMPOUND	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aluminum	368	361	98	0.4	20	80 - 120
Antimony	36.8	34.5	94	1	20	80 - 120
Arsenic	36.8	34.6	94	1	20	80 - 120
Barium	36.8	35.0	95	0.9	20	80 - 120
Beryllium	3.68	3.54	96	1	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 6010C

Laboratory:	ENCO Jacksonville	SDG:	A303499-CTO0020
Client:	ENCO Orlando	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Matrix:	Soil		
Batch:	3F24008	Laboratory ID:	3F24008-BSD1
Preparation:	EPA 3050B	Initial/Final:	0.68 g / 50 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Cadmium	3.68	3.62	98	2	20	80 - 120
Calcium	368	356	97	0.4	20	80 - 120
Chromium	36.8	35.9	98	1	20	80 - 120
Cobalt	36.8	36.0	98	2	20	80 - 120
Copper	36.8	36.2	98	1	20	80 - 120
Iron	184	178	97	1	20	80 - 120
Lead	36.8	35.9	98	2	20	80 - 120
Magnesium	368	345	94	0.9	20	80 - 120
Manganese	36.8	35.4	96	0.9	20	80 - 120
Nickel	36.8	35.9	98	1	20	80 - 120
Potassium	1840	1740	95	1	20	80 - 120
Selenium	36.8	34.6	94	1	20	80 - 120
Silver	7.35	7.20	98	1	20	80 - 120
Sodium	1840	1770	96	1	20	80 - 120
Thallium	36.8	35.9	98	0.1	20	80 - 120
Vanadium	36.8	36.6	100	0.8	20	80 - 120
Zinc	36.8	37.0	101	1	20	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory:	ENCO Jacksonville	SDG:	A303499-CTO0020
Client:	ENCO Orlando	Project:	CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence:	BA14232	Instrument:	JMICP2
		Calibration:	1306019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	BA14232-CAL1	062713a-001	06/27/13 10:00
Cal Standard	BA14232-CAL2	062713a-002	06/27/13 10:02
Instrument RL Check	BA14232-CRL1	062713a-004	06/27/13 10:06
Instrument RL Check	BA14232-CRL2	062713a-005	06/27/13 10:09
Secondary Cal Check	BA14232-SCV1	062713a-006	06/27/13 10:11
High Cal Check	BA14232-HCV1	062713a-008	06/27/13 10:15
Interference Check A	BA14232-IFA1	062713a-008	06/27/13 10:15
Interference Check B	BA14232-IFB1	062713a-009	06/27/13 10:17
Initial Cal Check	BA14232-ICV1	062713a-011	06/27/13 10:21
Initial Cal Blank	BA14232-ICB1	062713a-012	06/27/13 10:25
Blank	3F24008-BLK1	062713a-017	06/27/13 10:35
LCS	3F24008-BS1	062713a-018	06/27/13 10:37
LCS Dup	3F24008-BSD1	062713a-019	06/27/13 10:39
A303499-02 (HPDTA-BG-SB04-0.5-01-0613)	B302882-01	062713a-020	06/27/13 10:40
A303499-03 (HPDTA-BG-SB04-03-05-0613)	B302882-02	062713a-021	06/27/13 10:42
A303499-04 (HPDTA-BG-SB03-0.5-01-0613)	B302882-03	062713a-022	06/27/13 10:44
Calibration Check	BA14232-CCV1	062713a-023	06/27/13 10:46
Calibration Blank	BA14232-CCB1	062713a-024	06/27/13 10:48
A303499-05 (HPDTA-BG-SB03-04-06-0613)	B302882-04	062713a-025	06/27/13 10:50
A303499-06 (TR-2ND-SB07-0.5-01-0613)	B302882-05	062713a-026	06/27/13 10:52
A303499-07 (TR-2ND-SB07-04-06-0613)	B302882-06	062713a-027	06/27/13 10:54
A303499-09 (TR-2ND-SB06-0.5-01-0613)	B302882-07	062713a-028	06/27/13 10:56
A303499-10 (TR-2ND-SB06-05-07-0613)	B302882-08	062713a-029	06/27/13 10:58
A303499-11 (TR-2ND-SB06D-0.5-01-0613)	B302882-09	062713a-030	06/27/13 10:59
A303499-12 (TR-2ND-SB06D-05-07-0613)	B302882-10	062713a-031	06/27/13 11:01

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Sequence: BA14232
Instrument: JMICP2
Calibration: 1306019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
A303499-14 (TR-2ND-SB04-0.5-01-0613)	B302882-11	062713a-032	06/27/13 11:02
A303499-15 (TR-2ND-SB04-04-06-0613)	B302882-12	062713a-033	06/27/13 11:03
A303499-17 (TR-2ND-SB05-0.5-01-0613)	B302882-13	062713a-034	06/27/13 11:05
Calibration Check	BA14232-CCV2	062713a-035	06/27/13 11:07
Calibration Blank	BA14232-CCB2	062713a-036	06/27/13 11:09
A303499-18 (TR-2ND-SB05-03-05-0613)	B302882-14	062713a-037	06/27/13 11:11
A303499-19 (TR-2ND-SB03-0.5-01-0613)	B302882-15	062713a-038	06/27/13 11:12
A303499-20 (TR-2ND-SB03-04-06-0613)	B302882-16	062713a-039	06/27/13 11:13
A303499-21 (TR-2ND-SB02-0.5-1-0613)	B302882-17	062713a-040	06/27/13 11:14
A303499-22 (TR-2ND-SB02-0.6-08-0613)	B302882-18	062713a-041	06/27/13 11:15
Calibration Check	BA14232-CCV3	062713a-047	06/27/13 11:27
Calibration Blank	BA14232-CCB3	062713a-048	06/27/13 11:29
Calibration Check	BA14232-CCV4	062713a-059	06/27/13 11:50
Calibration Blank	BA14232-CCB4	062713a-060	06/27/13 11:52
High Cal Check	BA14232-HCV2	062713a-114	06/27/13 13:37
High Cal Check	BA14232-HCV3	062713a-115	06/27/13 13:39
High Cal Check	BA14232-HCV4	062713a-116	06/27/13 13:41
High Cal Check	BA14232-HCV5	062713a-117	06/27/13 13:43
High Cal Check	BA14232-HCV6	062713a-120	06/27/13 13:51
High Cal Check	BA14232-HCV7	062713a-121	06/27/13 13:53

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID: JMICP2
Calibration: 1306019
Control Limt: +/- 10.00%
Sequence: BA14232

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA14232-ICV1	Aluminum	5.00	4.84	97	mg/L	EPA 6010C
	Antimony	0.500	0.472	94	mg/L	EPA 6010C
	Arsenic	0.500	0.480	96	mg/L	EPA 6010C
	Barium	0.500	0.484	97	mg/L	EPA 6010C
	Beryllium	0.0500	0.0482	96	mg/L	EPA 6010C
	Cadmium	0.0500	0.0491	98	mg/L	EPA 6010C
	Calcium	5.00	4.77	95	mg/L	EPA 6010C
	Chromium	0.500	0.488	98	mg/L	EPA 6010C
	Cobalt	0.500	0.487	97	mg/L	EPA 6010C
	Copper	0.500	0.490	98	mg/L	EPA 6010C
	Iron	2.50	2.42	97	mg/L	EPA 6010C
	Lead	0.500	0.487	97	mg/L	EPA 6010C
	Magnesium	5.00	4.76	95	mg/L	EPA 6010C
	Manganese	0.500	0.487	97	mg/L	EPA 6010C
	Nickel	0.500	0.485	97	mg/L	EPA 6010C
	Potassium	25.0	23.7	95	mg/L	EPA 6010C
	Selenium	0.500	0.472	94	mg/L	EPA 6010C
	Silver	0.500	0.492	98	mg/L	EPA 6010C
	Sodium	25.0	24.0	96	mg/L	EPA 6010C
	Thallium	0.500	0.489	98	mg/L	EPA 6010C
	Vanadium	0.500	0.493	99	mg/L	EPA 6010C
	Zinc	0.500	0.481	96	mg/L	EPA 6010C
BA14232-CCV1	Aluminum	5.00	4.87	97	mg/L	EPA 6010C
	Antimony	0.500	0.462	92	mg/L	EPA 6010C
	Arsenic	0.500	0.471	94	mg/L	EPA 6010C
	Barium	0.500	0.481	96	mg/L	EPA 6010C
	Beryllium	0.0500	0.0483	97	mg/L	EPA 6010C
	Cadmium	0.0500	0.0492	98	mg/L	EPA 6010C
	Calcium	5.00	4.79	96	mg/L	EPA 6010C
	Chromium	0.500	0.490	98	mg/L	EPA 6010C
	Cobalt	0.500	0.482	96	mg/L	EPA 6010C
	Copper	0.500	0.491	98	mg/L	EPA 6010C
	Iron	2.50	2.43	97	mg/L	EPA 6010C
	Lead	0.500	0.481	96	mg/L	EPA 6010C
	Magnesium	5.00	4.74	95	mg/L	EPA 6010C
	Manganese	0.500	0.486	97	mg/L	EPA 6010C
	Nickel	0.500	0.479	96	mg/L	EPA 6010C

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID: JMICP2
Calibration: 1306019
Control Limt: +/- 10.00%
Sequence: BA14232

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA14232-CCV1	Potassium	25.0	23.7	95	mg/L	EPA 6010C
	Selenium	0.500	0.464	93	mg/L	EPA 6010C
	Silver	0.500	0.495	99	mg/L	EPA 6010C
	Sodium	25.0	24.1	97	mg/L	EPA 6010C
	Thallium	0.500	0.490	98	mg/L	EPA 6010C
	Vanadium	0.500	0.496	99	mg/L	EPA 6010C
	Zinc	0.500	0.468	94	mg/L	EPA 6010C
BA14232-CCV2	Aluminum	5.00	4.85	97	mg/L	EPA 6010C
	Antimony	0.500	0.474	95	mg/L	EPA 6010C
	Arsenic	0.500	0.474	95	mg/L	EPA 6010C
	Barium	0.500	0.479	96	mg/L	EPA 6010C
	Beryllium	0.0500	0.0483	97	mg/L	EPA 6010C
	Cadmium	0.0500	0.0498	100	mg/L	EPA 6010C
	Calcium	5.00	4.74	95	mg/L	EPA 6010C
	Chromium	0.500	0.491	98	mg/L	EPA 6010C
	Cobalt	0.500	0.488	98	mg/L	EPA 6010C
	Copper	0.500	0.491	98	mg/L	EPA 6010C
	Iron	2.50	2.44	98	mg/L	EPA 6010C
	Lead	0.500	0.483	97	mg/L	EPA 6010C
	Magnesium	5.00	4.69	94	mg/L	EPA 6010C
	Manganese	0.500	0.486	97	mg/L	EPA 6010C
	Nickel	0.500	0.485	97	mg/L	EPA 6010C
	Potassium	25.0	24.2	97	mg/L	EPA 6010C
	Selenium	0.500	0.473	95	mg/L	EPA 6010C
	Silver	0.500	0.496	99	mg/L	EPA 6010C
	Sodium	25.0	24.1	96	mg/L	EPA 6010C
	Thallium	0.500	0.495	99	mg/L	EPA 6010C
	Vanadium	0.500	0.498	100	mg/L	EPA 6010C
	Zinc	0.500	0.474	95	mg/L	EPA 6010C
BA14232-CCV3	Aluminum	5.00	4.88	98	mg/L	EPA 6010C
	Antimony	0.500	0.474	95	mg/L	EPA 6010C
	Arsenic	0.500	0.472	94	mg/L	EPA 6010C
	Barium	0.500	0.478	96	mg/L	EPA 6010C
	Beryllium	0.0500	0.0482	96	mg/L	EPA 6010C
	Cadmium	0.0500	0.0497	99	mg/L	EPA 6010C
	Calcium	5.00	4.78	96	mg/L	EPA 6010C
	Chromium	0.500	0.490	98	mg/L	EPA 6010C

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID: JMICP2
Calibration: 1306019
Control Limt: +/- 10.00%
Sequence: BA14232

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA14232-CCV3	Cobalt	0.500	0.488	98	mg/L	EPA 6010C
	Copper	0.500	0.490	98	mg/L	EPA 6010C
	Iron	2.50	2.43	97	mg/L	EPA 6010C
	Lead	0.500	0.482	96	mg/L	EPA 6010C
	Magnesium	5.00	4.71	94	mg/L	EPA 6010C
	Manganese	0.500	0.485	97	mg/L	EPA 6010C
	Nickel	0.500	0.485	97	mg/L	EPA 6010C
	Potassium	25.0	24.2	97	mg/L	EPA 6010C
	Selenium	0.500	0.470	94	mg/L	EPA 6010C
	Silver	0.500	0.495	99	mg/L	EPA 6010C
	Sodium	25.0	24.1	96	mg/L	EPA 6010C
	Thallium	0.500	0.494	99	mg/L	EPA 6010C
	Vanadium	0.500	0.498	100	mg/L	EPA 6010C
	Zinc	0.500	0.470	94	mg/L	EPA 6010C
BA14232-CCV4	Aluminum	5.00	4.85	97	mg/L	EPA 6010C
	Antimony	0.500	0.480	96	mg/L	EPA 6010C
	Arsenic	0.500	0.474	95	mg/L	EPA 6010C
	Barium	0.500	0.483	97	mg/L	EPA 6010C
	Beryllium	0.0500	0.0487	97	mg/L	EPA 6010C
	Cadmium	0.0500	0.0502	100	mg/L	EPA 6010C
	Calcium	5.00	4.80	96	mg/L	EPA 6010C
	Chromium	0.500	0.496	99	mg/L	EPA 6010C
	Cobalt	0.500	0.492	98	mg/L	EPA 6010C
	Copper	0.500	0.496	99	mg/L	EPA 6010C
	Iron	2.50	2.45	98	mg/L	EPA 6010C
	Lead	0.500	0.484	97	mg/L	EPA 6010C
	Magnesium	5.00	4.74	95	mg/L	EPA 6010C
	Manganese	0.500	0.491	98	mg/L	EPA 6010C
	Nickel	0.500	0.487	97	mg/L	EPA 6010C
	Potassium	25.0	24.5	98	mg/L	EPA 6010C
	Selenium	0.500	0.477	95	mg/L	EPA 6010C
	Silver	0.500	0.499	100	mg/L	EPA 6010C
	Sodium	25.0	24.3	97	mg/L	EPA 6010C
	Thallium	0.500	0.494	99	mg/L	EPA 6010C
	Vanadium	0.500	0.502	100	mg/L	EPA 6010C
	Zinc	0.500	0.473	95	mg/L	EPA 6010C

* Values outside of QC limits

BLANKS
EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID: JMICP2
Sequence: BA14232
Calibration: 1306019

Lab Sample ID	Analyte	Found	LOQ	Units	C	Method
BA14232-ICB1	Aluminum	-0.0197	0.400	mg/L		EPA 6010C
	Antimony	-0.00585	0.0400	mg/L		EPA 6010C
	Arsenic	0.00347	0.0400	mg/L		EPA 6010C
	Barium	-0.000389	0.0100	mg/L		EPA 6010C
	Beryllium	8.75E-5	0.00100	mg/L		EPA 6010C
	Cadmium	0.000447	0.00200	mg/L		EPA 6010C
	Calcium	0.00280	0.500	mg/L		EPA 6010C
	Chromium	-1.81E-6	0.0100	mg/L		EPA 6010C
	Cobalt	-0.000673	0.0100	mg/L		EPA 6010C
	Copper	0.000199	0.0100	mg/L		EPA 6010C
	Iron	0.00356	0.100	mg/L		EPA 6010C
	Lead	0.00365	0.0400	mg/L		EPA 6010C
	Magnesium	0.0137	0.500	mg/L		EPA 6010C
	Manganese	-2.76E-5	0.0200	mg/L		EPA 6010C
	Nickel	0.000571	0.0100	mg/L		EPA 6010C
	Potassium	0.0863	1.00	mg/L		EPA 6010C
	Selenium	-0.00240	0.0400	mg/L		EPA 6010C
	Silver	0.000918	0.0100	mg/L		EPA 6010C
	Sodium	0.0148	0.500	mg/L		EPA 6010C
	Thallium	0.00544	0.0400	mg/L		EPA 6010C
	Vanadium	-0.000123	0.0200	mg/L		EPA 6010C
	Zinc	0.00234	0.0200	mg/L		EPA 6010C
3F24008-BLK1	Aluminum	1.92	32.3	mg/kg wet		EPA 6010C
	Antimony	0.0934	3.23	mg/kg wet		EPA 6010C
	Arsenic	-0.161	3.23	mg/kg wet		EPA 6010C
	Barium	-0.0131	0.806	mg/kg wet		EPA 6010C
	Beryllium	-0.000640	0.0806	mg/kg wet		EPA 6010C
	Cadmium	0.0311	0.161	mg/kg wet		EPA 6010C
	Calcium	3.59	40.3	mg/kg wet		EPA 6010C
	Chromium	0.0175	0.806	mg/kg wet		EPA 6010C
	Cobalt	-0.0374	0.806	mg/kg wet		EPA 6010C
	Copper	0.0676	0.806	mg/kg wet		EPA 6010C
	Iron	0.488	8.06	mg/kg wet		EPA 6010C

BLANKS
EPA 6010C

Laboratory: ENCO Jacksonville
Client: ENCO Orlando
Instrument ID: JMICP2
Sequence: BA14232

SDG: A303499-CTO0020
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration: 1306019

Lab Sample ID	Analyte	Found	LOQ	Units	C	Method
3F24008-BLK1	Lead	0.106	3.23	mg/kg wet		EPA 6010C
	Magnesium	1.82	40.3	mg/kg wet		EPA 6010C
	Manganese	0.00960	1.61	mg/kg wet		EPA 6010C
	Nickel	0.0479	0.806	mg/kg wet		EPA 6010C
	Potassium	9.43	80.6	mg/kg wet		EPA 6010C
	Selenium	0.0459	3.23	mg/kg wet		EPA 6010C
	Silver	0.0366	0.806	mg/kg wet		EPA 6010C
	Sodium	1.48	40.3	mg/kg wet		EPA 6010C
	Thallium	-0.135	3.23	mg/kg wet		EPA 6010C
	Vanadium	0.0128	1.61	mg/kg wet		EPA 6010C
	Zinc	0.235	1.61	mg/kg wet		EPA 6010C
BA14232-CCB1	Aluminum	-0.00418	0.400	mg/L		EPA 6010C
	Antimony	-0.00519	0.0400	mg/L		EPA 6010C
	Arsenic	0.00186	0.0400	mg/L		EPA 6010C
	Barium	-0.000388	0.0100	mg/L		EPA 6010C
	Beryllium	6.19E-5	0.00100	mg/L		EPA 6010C
	Cadmium	0.000474	0.00200	mg/L		EPA 6010C
	Calcium	0.00195	0.500	mg/L		EPA 6010C
	Chromium	-1.71E-5	0.0100	mg/L		EPA 6010C
	Cobalt	-0.000700	0.0100	mg/L		EPA 6010C
	Copper	-0.000328	0.0100	mg/L		EPA 6010C
	Iron	0.00617	0.100	mg/L		EPA 6010C
	Lead	0.00420	0.0400	mg/L		EPA 6010C
	Magnesium	0.0151	0.500	mg/L		EPA 6010C
	Manganese	2.34E-5	0.0200	mg/L		EPA 6010C
	Nickel	0.000556	0.0100	mg/L		EPA 6010C
	Potassium	0.138	1.00	mg/L		EPA 6010C
	Selenium	-0.00199	0.0400	mg/L		EPA 6010C
	Silver	0.00150	0.0100	mg/L		EPA 6010C
	Sodium	0.0176	0.500	mg/L		EPA 6010C
	Thallium	0.00678	0.0400	mg/L		EPA 6010C
	Vanadium	0.000575	0.0200	mg/L		EPA 6010C
	Zinc	0.00274	0.0200	mg/L		EPA 6010C

BLANKS
EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID: JMICP2
Sequence: BA14232
Calibration: 1306019

Lab Sample ID	Analyte	Found	LOQ	Units	C	Method
BA14232-CCB2	Aluminum	0.0186	0.400	mg/L		EPA 6010C
	Antimony	-0.00797	0.0400	mg/L		EPA 6010C
	Arsenic	0.00372	0.0400	mg/L		EPA 6010C
	Barium	-0.000284	0.0100	mg/L		EPA 6010C
	Beryllium	8.39E-5	0.00100	mg/L		EPA 6010C
	Cadmium	0.000577	0.00200	mg/L		EPA 6010C
	Calcium	0.00181	0.500	mg/L		EPA 6010C
	Chromium	-5.48E-5	0.0100	mg/L		EPA 6010C
	Cobalt	-0.000639	0.0100	mg/L		EPA 6010C
	Copper	9.78E-5	0.0100	mg/L		EPA 6010C
	Iron	0.00713	0.100	mg/L		EPA 6010C
	Lead	0.00506	0.0400	mg/L		EPA 6010C
	Magnesium	0.0231	0.500	mg/L		EPA 6010C
	Manganese	0.000128	0.0200	mg/L		EPA 6010C
	Nickel	0.000510	0.0100	mg/L		EPA 6010C
	Potassium	0.134	1.00	mg/L		EPA 6010C
	Selenium	-0.00216	0.0400	mg/L		EPA 6010C
	Silver	0.000624	0.0100	mg/L		EPA 6010C
	Sodium	0.0120	0.500	mg/L		EPA 6010C
	Thallium	0.00726	0.0400	mg/L		EPA 6010C
	Vanadium	-5.69E-5	0.0200	mg/L		EPA 6010C
	Zinc	0.00407	0.0200	mg/L		EPA 6010C
BA14232-CCB3	Aluminum	-0.0166	0.400	mg/L		EPA 6010C
	Antimony	-0.00604	0.0400	mg/L		EPA 6010C
	Arsenic	0.00557	0.0400	mg/L		EPA 6010C
	Barium	-0.000360	0.0100	mg/L		EPA 6010C
	Beryllium	5.72E-5	0.00100	mg/L		EPA 6010C
	Cadmium	0.000597	0.00200	mg/L		EPA 6010C
	Calcium	0.00131	0.500	mg/L		EPA 6010C
	Chromium	-0.000124	0.0100	mg/L		EPA 6010C
	Cobalt	-0.000760	0.0100	mg/L		EPA 6010C
	Copper	-0.000427	0.0100	mg/L		EPA 6010C
	Iron	0.00775	0.100	mg/L		EPA 6010C

BLANKS
EPA 6010C

Laboratory: ENCO Jacksonville
Client: ENCO Orlando
Instrument ID: JMICP2
Sequence: BA14232

SDG: A303499-CTO0020
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Calibration: 1306019

Lab Sample ID	Analyte	Found	LOQ	Units	C	Method
BA14232-CCB3	Lead	0.00530	0.0400	mg/L		EPA 6010C
	Magnesium	0.0236	0.500	mg/L		EPA 6010C
	Manganese	7.55E-5	0.0200	mg/L		EPA 6010C
	Nickel	0.000640	0.0100	mg/L		EPA 6010C
	Potassium	0.114	1.00	mg/L		EPA 6010C
	Selenium	-0.00133	0.0400	mg/L		EPA 6010C
	Silver	0.00119	0.0100	mg/L		EPA 6010C
	Sodium	0.0109	0.500	mg/L		EPA 6010C
	Thallium	0.00607	0.0400	mg/L		EPA 6010C
	Vanadium	0.000307	0.0200	mg/L		EPA 6010C
	Zinc	0.00330	0.0200	mg/L		EPA 6010C
BA14232-CCB4	Aluminum	-0.0267	0.400	mg/L		EPA 6010C
	Antimony	-0.00869	0.0400	mg/L		EPA 6010C
	Arsenic	0.00493	0.0400	mg/L		EPA 6010C
	Barium	-0.000342	0.0100	mg/L		EPA 6010C
	Beryllium	5.83E-5	0.00100	mg/L		EPA 6010C
	Cadmium	0.000621	0.00200	mg/L		EPA 6010C
	Calcium	0.00314	0.500	mg/L		EPA 6010C
	Chromium	-5.24E-5	0.0100	mg/L		EPA 6010C
	Cobalt	-0.000590	0.0100	mg/L		EPA 6010C
	Copper	-0.000580	0.0100	mg/L		EPA 6010C
	Iron	0.00479	0.100	mg/L		EPA 6010C
	Lead	0.00415	0.0400	mg/L		EPA 6010C
	Magnesium	0.0273	0.500	mg/L		EPA 6010C
	Manganese	3.11E-5	0.0200	mg/L		EPA 6010C
	Nickel	0.000601	0.0100	mg/L		EPA 6010C
	Potassium	0.158	1.00	mg/L		EPA 6010C
	Selenium	-0.00368	0.0400	mg/L		EPA 6010C
	Silver	0.000843	0.0100	mg/L		EPA 6010C
	Sodium	0.0231	0.500	mg/L		EPA 6010C
	Thallium	0.00802	0.0400	mg/L		EPA 6010C
	Vanadium	0.000540	0.0200	mg/L		EPA 6010C
	Zinc	0.00261	0.0200	mg/L		EPA 6010C

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: ENCO Jacksonville
SDG: A303499-CTO0020
Client: ENCO Orlando
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Instrument ID: JMICP2
Sequence: BA14232
Calibration: 1306019

Lab Sample ID	Analyte	True	Found	%R	Units
BA14232-IFA1	Aluminum	500	502.46	100	mg/L
	Antimony		0.00		mg/L
	Arsenic		-0.01		mg/L
	Barium		0.00		mg/L
	Beryllium		0.00		mg/L
	Cadmium		0.00		mg/L
	Calcium	500	483.42	97	mg/L
	Chromium		0.00		mg/L
	Cobalt		0.00		mg/L
	Copper		0.00		mg/L
	Iron	200	187.77	94	mg/L
	Lead		0.01		mg/L
	Magnesium	500	473.20	95	mg/L
	Manganese		0.00		mg/L
	Nickel		0.00		mg/L
	Potassium		0.07		mg/L
	Selenium		-0.02		mg/L
	Silver		0.00		mg/L
	Sodium		0.04		mg/L
	Thallium		0.02		mg/L
	Vanadium		0.00		mg/L
	Zinc		0.00		mg/L
BA14232-IFB1	Aluminum	501	502.88	100	mg/L
	Antimony	1.00	0.97	97	mg/L
	Arsenic	1.00	1.00	100	mg/L
	Barium	1.00	0.99	99	mg/L
	Beryllium	1.00	0.99	99	mg/L
	Cadmium	1.00	1.01	101	mg/L
	Calcium	501	481.94	96	mg/L

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Instrument ID: JMICP2

Sequence: BA14232

Calibration: 1306019

Lab Sample ID	Analyte	True	Found	%R	Units
BA14232-IFB1	Chromium	1.00	0.96	96	mg/L
	Cobalt	1.00	0.92	92	mg/L
	Copper	1.00	1.05	105	mg/L
	Iron	201	187.18	93	mg/L
	Lead	1.00	0.95	95	mg/L
	Magnesium	501	471.63	94	mg/L
	Manganese	1.00	0.96	96	mg/L
	Nickel	1.00	0.91	91	mg/L
	Potassium	10.0	10.84	108	mg/L
	Selenium	1.00	0.95	95	mg/L
	Silver	1.00	1.07	107	mg/L
	Sodium	50.0	52.40	105	mg/L
	Thallium	1.00	0.94	94	mg/L
	Vanadium	1.00	1.00	100	mg/L
	Zinc	1.00	0.92	92	mg/L

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville
Client: ENCO Orlando
Calibration: 1306019
Sequence: BA14232

SDG: A303499-CTO0020
Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC
Laboratory ID: BA14232-SCV1
Standard ID: B3E0241

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Aluminum	5.00	5.02	0.3	10.00
Antimony	0.500	0.486	-2.7	10.00
Arsenic	0.500	0.493	-1.4	10.00
Barium	0.500	0.500	0.05	10.00
Beryllium	0.0500	0.0495	-1.0	10.00
Cadmium	0.0500	0.0494	-1.1	10.00
Calcium	5.00	5.05	1.0	10.00
Chromium	0.500	0.501	0.1	10.00
Cobalt	0.500	0.514	2.8	10.00
Copper	0.500	0.504	0.8	10.00
Iron	2.50	2.46	-1.4	10.00
Lead	0.500	0.506	1.1	10.00
Magnesium	5.00	4.96	-0.8	10.00
Manganese	0.500	0.500	-0.05	10.00
Nickel	0.500	0.504	0.8	10.00
Potassium	25.0	24.5	-2.1	10.00
Selenium	0.500	0.499	-0.3	10.00
Silver	0.500	0.509	1.7	10.00
Sodium	25.0	24.2	-3.1	10.00
Thallium	0.500	0.508	1.7	10.00
Vanadium	0.500	0.506	1.2	10.00
Zinc	0.500	0.501	0.1	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306019

Laboratory ID: BA14232-HCV1

Sequence: BA14232

Standard ID: B3E0242

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Aluminum	500	502	0.5	10.00
Calcium	500	483	-3.3	10.00
Magnesium	500	473	-5.4	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306019

Laboratory ID: BA14232-HCV2

Sequence: BA14232

Standard ID: B3F0149

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Barium	5.00	4.76	-4.8	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306019

Laboratory ID: BA14232-HCV3

Sequence: BA14232

Standard ID: B3F0150

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Copper	5.00	4.61	-7.7	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306019

Laboratory ID: BA14232-HCV4

Sequence: BA14232

Standard ID: B3F0151

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Manganese	20.0	18.4	-7.8	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306019

Laboratory ID: BA14232-HCV5

Sequence: BA14232

Standard ID: B3F0152

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Lead	10.0	9.51	-4.9	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306019

Laboratory ID: BA14232-HCV6

Sequence: BA14232

Standard ID: B3F0154

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Iron	300	283	-5.7	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Calibration: 1306019

Laboratory ID: BA14232-HCV7

Sequence: BA14232

Standard ID: B3F0153

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Zinc	10.0	9.03	-9.7	10.00

* Values outside of QC limits

CRDL STANDARD

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A303499-CTO0020

Client: ENCO Orlando

Project: CTO-0020 Towers Road Disposal Areas, Hertford, NC

Instrument ID: JMICP2

Sequence: BA14232

Calibration: 1306019

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
BA14232-CRL1	Aluminum	0.200	0.228	114	mg/L	80 - 120
	Antimony	0.0400	0.0418	105	mg/L	80 - 120
	Barium	0.0100	0.0105	105	mg/L	80 - 120
	Beryllium	0.00100	0.000993	99	mg/L	80 - 120
	Cadmium	0.00100	0.000799	80	mg/L	80 - 120
	Calcium	0.500	0.529	106	mg/L	80 - 120
	Chromium	0.0100	0.0100	100	mg/L	80 - 120
	Cobalt	0.0100	0.0105	105	mg/L	80 - 120
	Copper	0.0100	0.0106	106	mg/L	80 - 120
	Iron	0.0500	0.0499	100	mg/L	80 - 120
	Lead	0.0100	0.0105	105	mg/L	80 - 120
	Magnesium	0.500	0.513	103	mg/L	80 - 120
	Manganese	0.0100	0.0103	103	mg/L	80 - 120
	Nickel	0.0100	0.0102	102	mg/L	80 - 120
	Potassium	0.500	0.530	106	mg/L	80 - 120
	Selenium	0.0400	0.0402	100	mg/L	80 - 120
	Silver	0.0100	0.0108	108	mg/L	80 - 120
	Sodium	0.500	0.512	102	mg/L	80 - 120
	Thallium	0.0200	0.0197	98	mg/L	80 - 120
	Vanadium	0.0100	0.0107	107	mg/L	80 - 120
	Zinc	0.0100	0.0114	114	mg/L	80 - 120
BA14232-CRL2	Arsenic	0.0400	0.0386	96	mg/L	80 - 120

* Values outside of QC limits

Mean Data

ID: CAL1 **Seq. No.:** 3 **A/S Pos:** 1

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:00:52

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,333.7	[0.00]	1,826.23	%				0.79 %
Y 324.227A	1,391,366.5	[0.00]	9,858.05	%				0.71 %
Ag 328.068	-2,916.9	[0.00]	72.67	mg/L				2.49 %
Al 308.215	124.2	[0.00]	41.40	mg/L				33.33 %
As 188.979	-175.3	[0.00]	4.44	mg/L				2.53 %
Ba 233.527	649.8	[0.00]	8.45	mg/L				1.30 %
Be 313.107	-10,652.5	[0.00]	52.47	mg/L				0.49 %
B 208.959	584.8	[0.00]	6.74	mg/L				1.15 %
Ca 317.933	2,094.4	[0.00]	37.97	mg/L				1.81 %
Cd 228.802	-228.8	[0.00]	5.24	mg/L				2.29 %
Co 228.616	485.3	[0.00]	3.77	mg/L				0.78 %
Cr 267.716	-281.3	[0.00]	67.38	mg/L				23.95 %
Cu 324.754	6,400.7	[0.00]	130.88	mg/L				2.04 %
Fe 273.955	-279.6	[0.00]	14.63	mg/L				5.23 %
K 766.491R	-122.2	[0.00]	71.01	mg/L				58.10 %
Li 670.781R	212.6	[0.00]	94.87	mg/L				44.63 %
Mg 279.079R	-348.9	[0.00]	81.14	mg/L				23.25 %
Mn 257.610	551.5	[0.00]	4.86	mg/L				0.88 %
Mo 202.030	-214.7	[0.00]	1.67	mg/L				0.78 %
Na 589.592R	-613.8	[0.00]	141.29	mg/L				23.02 %
Ni 231.604	-451.3	[0.00]	3.39	mg/L				0.75 %
Pb 220.353	-777.8	[0.00]	10.35	mg/L				1.33 %
Sb 206.833	471.0	[0.00]	9.44	mg/L				2.00 %
Se 196.026	251.5	[0.00]	5.71	mg/L				2.27 %
Sn 189.933	57.1	[0.00]	3.97	mg/L				6.96 %
Sr 421.539R	1,191.4	[0.00]	124.03	mg/L				10.41 %
Ti 337.280	-2,006.4	[0.00]	132.28	mg/L				6.59 %
Tl 190.800	-416.1	[0.00]	1.80	mg/L				0.43 %
V 292.402	-271.3	[0.00]	63.08	mg/L				23.25 %
Zn 206.191	-667.3	[0.00]	11.88	mg/L				1.78 %

Mean Data

ID: CAL2 **Seq. No.:** 4 **A/S Pos:** 2

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:02:54

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,080.7	97.30	880.71	%				0.39 %
Y 324.227A	1,358,855.4	97.66	5,296.86	%				0.39 %
Ag 328.068	205,953.5	[1.00]	427.10	mg/L				0.21 %
Al 308.215	13,141.9	[10]	31.88	mg/L				0.24 %
As 188.979	2,210.1	[1.00]	7.25	mg/L				0.33 %
Ba 233.527	121,263.3	[1.00]	23.65	mg/L				0.02 %
Be 313.107	452,808.5	[0.1]	676.88	mg/L				0.15 %
B 208.959	51,638.6	[5.00]	66.98	mg/L				0.13 %
Ca 317.933	293,164.0	[10.00]	770.56	mg/L				0.26 %
Cd 228.802	4,255.1	[0.1]	15.60	mg/L				0.37 %
Co 228.616	49,701.8	[1.00]	81.06	mg/L				0.16 %
Cr 267.716	125,832.1	[1.00]	137.21	mg/L				0.11 %
Cu 324.754	261,311.4	[1.00]	195.04	mg/L				0.07 %
Fe 273.955	125,884.8	[5.0]	157.50	mg/L				0.13 %
K 766.491R	116,947.2	[50.00]	439.40	mg/L				0.38 %
Li 670.781R	69,950.5	[1.00]	255.36	mg/L				0.37 %
Mg 279.079R	24,248.2	[10.00]	90.34	mg/L				0.37 %
Mn 257.610	732,480.6	[1.00]	830.75	mg/L				0.11 %
Mo 202.030	18,634.2	[1.00]	15.51	mg/L				0.08 %

Na 589.592R	506,095.6	[50.0]	4,209.25	mg/L	0.83 %
Ni 231.604	55,330.3	[1.00]	99.14	mg/L	0.18 %
Pb 220.353	10,934.8	[1.00]	16.35	mg/L	0.15 %
Sb 206.833	2,796.4	[1.00]	8.78	mg/L	0.31 %
Se 196.026	3,005.9	[1.00]	21.71	mg/L	0.72 %
Sn 189.933	10,778.2	[1.00]	21.77	mg/L	0.20 %
Sr 421.539R	764,151.9	[1.00]	5,749.48	mg/L	0.75 %
Ti 337.280	310,164.6	[0.50]	420.29	mg/L	0.14 %
Tl 190.800	3,560.4	[1.00]	8.19	mg/L	0.23 %
V 292.402	221,508.1	[1.00]	333.28	mg/L	0.15 %
Zn 206.191	58,020.8	[1.00]	102.36	mg/L	0.18 %

Mean Data

ID: RINSE **Seq. No.:** 5 **A/S Pos:** 10

2013/06/27 10:06:19 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:05:02

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	232,348.0	100.4	0.42	%				0.42 %
Y 324.227A	1,394,660.9	100.2	1.23	%				1.23 %
Ag 328.068	42.0	0.0002	0.00044	mg/L	0.0002			212.13 %
2013/06/27 10:06:18 QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215	-37.5	-0.029	0.0415	mg/L	-0.029			145.36 %
2013/06/27 10:06:18 QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-1.3	-0.0006	0.00310	mg/L	-0.0006			528.65 %
2013/06/27 10:06:18 QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527	-5.3	0.0000	0.00010	mg/L	0.0000			220.26 %
2013/06/27 10:06:18 QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	167.4	0.0000	0.00001	mg/L	0.0000			30.47 %
2013/06/27 10:06:18 QC value within limits for Be 313.107 Recovery = Not calculated								
B 208.959	166.1	0.0160	0.00211	mg/L	0.0160			13.22 %
2013/06/27 10:06:18 QC value within limits for B 208.959 Recovery = Not calculated								
Ca 317.933	47.2	0.0016	0.00160	mg/L	0.0016			99.19 %
2013/06/27 10:06:18 QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802	-5.9	-0.0001	0.00012	mg/L	-0.0001			86.23 %
2013/06/27 10:06:18 QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	3.9	0.0001	0.00017	mg/L	0.0001			212.36 %
2013/06/27 10:06:18 QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-32.7	-0.0003	0.00045	mg/L	-0.0003			172.12 %
2013/06/27 10:06:18 QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.754	116.5	0.0004	0.00048	mg/L	0.0004			107.94 %
2013/06/27 10:06:18 QC value within limits for Cu 324.754 Recovery = Not calculated								
Fe 273.955	50.1	0.0020	0.00074	mg/L	0.0020			36.94 %
2013/06/27 10:06:18 QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.491R	59.0	0.025	0.0505	mg/L	0.025			200.20 %
2013/06/27 10:06:18 QC value within limits for K 766.491R Recovery = Not calculated								
Li 670.781R	-54.0	-0.001	0.0003	mg/L	-0.001			39.74 %
2013/06/27 10:06:18 QC value within limits for Li 670.781R Recovery = Not calculated								
Mg 279.079R	30.6	0.013	0.0097	mg/L	0.013			76.60 %
2013/06/27 10:06:18 QC value within limits for Mg 279.079R Recovery = Not calculated								
Mn 257.610	21.8	0.0000	0.00003	mg/L	0.0000			110.48 %
2013/06/27 10:06:18 QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	26.5	0.0014	0.00052	mg/L	0.0014			36.41 %
2013/06/27 10:06:18 QC value within limits for Mo 202.030 Recovery = Not calculated								
Na 589.592R	281.0	0.028	0.0153	mg/L	0.028			55.18 %
2013/06/27 10:06:18 QC value within limits for Na 589.592R Recovery = Not calculated								
Ni 231.604	-4.4	0.000	0.0001	mg/L	0.000			167.79 %
2013/06/27 10:06:18 QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	1.6	0.0001	0.00099	mg/L	0.0001			696.09 %
2013/06/27 10:06:18 QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	10.2	0.0037	0.00249	mg/L	0.0037			67.79 %
2013/06/27 10:06:18 QC value within limits for Sb 206.833 Recovery = Not calculated								

Se 196.026	6.4	0.0021	0.00033	mg/L	0.0021	15.39 %
2013/06/27 10:06:18 QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.933	10.8	0.0010	0.00063	mg/L	0.0010	62.46 %
2013/06/27 10:06:18 QC value within limits for Sn 189.933 Recovery = Not calculated						
Sr 421.539R	135.2	0.0002	0.00020	mg/L	0.0002	114.12 %
2013/06/27 10:06:18 QC value within limits for Sr 421.539R Recovery = Not calculated						
Ti 337.280	121.2	0.0002	0.00015	mg/L	0.0002	74.24 %
2013/06/27 10:06:18 QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	-5.0	-0.0014	0.00272	mg/L	-0.0014	191.45 %
2013/06/27 10:06:18 QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	91.3	0.0004	0.00076	mg/L	0.0004	179.43 %
2013/06/27 10:06:18 QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.191	17.2	0.0003	0.00032	mg/L	0.0003	109.70 %
2013/06/27 10:06:18 QC value within limits for Zn 206.191 Recovery = Not calculated						

Mean Data

ID: QCS-LOW **Seq. No.:** 6 **A/S Pos:** 6

2013/06/27 10:08:21 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:07:03

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	230,030.9	99.44	0.199	%				0.20 %
Y 324.227A	1,389,756.4	99.88	0.464	%				0.46 %
Ag 328.068	2,202.7	0.0108	0.00023	mg/L	0.0108			2.12 %
2013/06/27 10:08:20 QC value within limits for Ag 328.068 Recovery = 107.76%								
Al 308.215	299.9	0.228	0.0181	mg/L	0.228			7.93 %
2013/06/27 10:08:20 QC value within limits for Al 308.215 Recovery = 113.92%								
As 188.979	16.8	0.0077	0.00445	mg/L	0.0077			57.88 %
2013/06/27 10:08:20 QC value within limits for As 188.979 Recovery = 76.91%								
Ba 233.527	1,268.6	0.0105	0.00001	mg/L	0.0105			0.05 %
2013/06/27 10:08:20 QC value within limits for Ba 233.527 Recovery = 104.64%								
Be 313.107	4,504.5	0.0010	0.00005	mg/L	0.0010			4.57 %
2013/06/27 10:08:20 QC value within limits for Be 313.107 Recovery = 99.35%								
B 208.959	606.0	0.0580	0.00036	mg/L	0.0580			0.61 %
2013/06/27 10:08:20 QC value within limits for B 208.959 Recovery = 115.93%								
Ca 317.933	15,494.8	0.5285	0.00298	mg/L	0.5285			0.56 %
2013/06/27 10:08:20 QC value within limits for Ca 317.933 Recovery = 105.71%								
Cd 228.802	33.9	0.0008	0.00016	mg/L	0.0008			20.08 %
2013/06/27 10:08:20 QC value within limits for Cd 228.802 Recovery = 79.91%								
Co 228.616	523.3	0.0105	0.00023	mg/L	0.0105			2.19 %
2013/06/27 10:08:20 QC value within limits for Co 228.616 Recovery = 105.35%								
Cr 267.716	1,262.9	0.0100	0.00055	mg/L	0.0100			5.48 %
2013/06/27 10:08:20 QC value within limits for Cr 267.716 Recovery = 100.37%								
Cu 324.754	2,750.5	0.0106	0.00082	mg/L	0.0106			7.79 %
2013/06/27 10:08:20 QC value within limits for Cu 324.754 Recovery = 105.54%								
Fe 273.955	1,257.8	0.0499	0.00032	mg/L	0.0499			0.64 %
2013/06/27 10:08:20 QC value within limits for Fe 273.955 Recovery = 99.79%								
K 766.491R	1,238.5	0.530	0.0038	mg/L	0.530			0.72 %
2013/06/27 10:08:20 QC value within limits for K 766.491R Recovery = 105.90%								
Li 670.781R	1,342.2	0.019	0.0031	mg/L	0.019			16.16 %
2013/06/27 10:08:20 QC value within limits for Li 670.781R Recovery = 95.94%								
Mg 279.079R	1,243.1	0.513	0.0277	mg/L	0.513			5.41 %
2013/06/27 10:08:20 QC value within limits for Mg 279.079R Recovery = 102.53%								
Mn 257.610	7,574.8	0.0103	0.00010	mg/L	0.0103			1.00 %
2013/06/27 10:08:20 QC value within limits for Mn 257.610 Recovery = 103.41%								
Mo 202.030	199.6	0.0107	0.00029	mg/L	0.0107			2.69 %
2013/06/27 10:08:20 QC value within limits for Mo 202.030 Recovery = 107.15%								
Na 589.592R	5,182.1	0.512	0.0196	mg/L	0.512			3.82 %
2013/06/27 10:08:20 QC value within limits for Na 589.592R Recovery = 102.39%								
Ni 231.604	565.1	0.010	0.0003	mg/L	0.010			2.51 %
2013/06/27 10:08:20 QC value within limits for Ni 231.604 Recovery = 102.04%								
Pb 220.353	113.8	0.0105	0.00057	mg/L	0.0105			5.41 %

2013/06/27 10:08:20 QC value within limits for Pb 220.353 Recovery = 105.16%

Sb 206.833	116.8	0.0418	0.00416	mg/L	0.0418	9.96 %

2013/06/27 10:08:20 QC value within limits for Sb 206.833 Recovery = 104.55%

Se 196.026	120.9	0.0402	0.00269	mg/L	0.0402	6.70 %

2013/06/27 10:08:20 QC value within limits for Se 196.026 Recovery = 100.39%

Sn 189.933	424.9	0.0394	0.00130	mg/L	0.0394	3.29 %

2013/06/27 10:08:20 QC value within limits for Sn 189.933 Recovery = 98.50%

Sr 421.539R	38,215.1	0.0500	0.00017	mg/L	0.0500	0.35 %

2013/06/27 10:08:20 QC value within limits for Sr 421.539R Recovery = 100.02%

Ti 337.280	3,087.5	0.0050	0.00020	mg/L	0.0050	3.95 %

2013/06/27 10:08:20 QC value within limits for Ti 337.280 Recovery = 99.54%

Tl 190.800	69.9	0.0197	0.00094	mg/L	0.0197	4.80 %

2013/06/27 10:08:20 QC value within limits for Tl 190.800 Recovery = 98.39%

V 292.402	2,351.8	0.0107	0.00035	mg/L	0.0107	3.28 %

2013/06/27 10:08:20 QC value within limits for V 292.402 Recovery = 107.48%

Zn 206.191	660.6	0.0114	0.00021	mg/L	0.0114	1.81 %

2013/06/27 10:08:20 QC value within limits for Zn 206.191 Recovery = 114.33%

Mean Data

ID: QCS-LOW **Seq. No.:** 7 **A/S Pos:** 6

2013/06/27 10:11:34 QC Failed. Stop the analysis.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:10:22

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	230,359.6	99.58	0.541	%				0.54 %
Y 324.227A	1,375,346.7	98.85	1.197	%				1.21 %
Ag 328.068	8,539.5	0.0418	0.00033	mg/L	0.0418			0.79 %

2013/06/27 10:11:33 QC value greater than the upper limit for Ag 328.068 Recovery = 417.74%

Al 308.215	1,089.8	0.828	0.0468	mg/L	0.828			5.66 %

2013/06/27 10:11:33 QC value greater than the upper limit for Al 308.215 Recovery = 413.96%

As 188.979	84.6	0.0386	0.00215	mg/L	0.0386			5.58 %

2013/06/27 10:11:33 QC value greater than the upper limit for As 188.979 Recovery = 385.96%

Ba 233.527	4,997.9	0.0412	0.00055	mg/L	0.0412			1.33 %

2013/06/27 10:11:33 QC value greater than the upper limit for Ba 233.527 Recovery = 412.26%

Be 313.107	17,815.4	0.0039	0.00003	mg/L	0.0039			0.75 %

2013/06/27 10:11:33 QC value greater than the upper limit for Be 313.107 Recovery = 392.94%

B 208.959	2,123.9	0.2029	0.00332	mg/L	0.2029			1.64 %

2013/06/27 10:11:33 QC value greater than the upper limit for B 208.959 Recovery = 405.83%

Ca 317.933	59,626.1	2.034	0.0093	mg/L	2.034			0.46 %

2013/06/27 10:11:33 QC value greater than the upper limit for Ca 317.933 Recovery = 406.78%

Cd 228.802	169.6	0.0040	0.00018	mg/L	0.0040			4.61 %

2013/06/27 10:11:33 QC value greater than the upper limit for Cd 228.802 Recovery = 399.26%

Co 228.616	2,031.3	0.0409	0.00050	mg/L	0.0409			1.23 %

2013/06/27 10:11:33 QC value greater than the upper limit for Co 228.616 Recovery = 408.92%

Cr 267.716	5,242.2	0.0417	0.00023	mg/L	0.0417			0.55 %

2013/06/27 10:11:33 QC value greater than the upper limit for Cr 267.716 Recovery = 416.63%

Cu 324.754	10,628.2	0.0408	0.00016	mg/L	0.0408			0.39 %

2013/06/27 10:11:33 QC value greater than the upper limit for Cu 324.754 Recovery = 407.82%

Fe 273.955	4,989.0	0.1979	0.00241	mg/L	0.1979			1.22 %

2013/06/27 10:11:33 QC value greater than the upper limit for Fe 273.955 Recovery = 395.82%

K 766.491R	4,552.6	1.95	0.042	mg/L	1.95			2.15 %

2013/06/27 10:11:33 QC value greater than the upper limit for K 766.491R Recovery = 389.28%

Li 670.781R	2,876.1	0.041	0.0015	mg/L	0.041			3.70 %

2013/06/27 10:11:33 QC value greater than the upper limit for Li 670.781R Recovery = 205.58%

Mg 279.079R	4,871.0	2.01	0.012	mg/L	2.01			0.59 %

2013/06/27 10:11:33 QC value greater than the upper limit for Mg 279.079R Recovery = 401.76%

Mn 257.610	29,893.7	0.0408	0.00006	mg/L	0.0408			0.15 %

2013/06/27 10:11:33 QC value greater than the upper limit for Mn 257.610 Recovery = 408.12%

Mo 202.030	765.4	0.0411	0.00070	mg/L	0.0411			1.70 %

2013/06/27 10:11:33 QC value greater than the upper limit for Mo 202.030 Recovery = 410.84%

Na 589.592R	19,489.8	1.93	0.011	mg/L	1.93			0.56 %

2013/06/27 10:11:33 QC value greater than the upper limit for Na 589.592R Recovery = 385.10%

Ni 231.604	2,232.6	0.040	0.0008	mg/L	0.040	1.86 %
2013/06/27 10:11:33 QC value greater than the upper limit for Ni 231.604 Recovery = 403.30%						
Pb 220.353	452.0	0.0417	0.00050	mg/L	0.0417	1.19 %
2013/06/27 10:11:33 QC value greater than the upper limit for Pb 220.353 Recovery = 417.32%						
Sb 206.833	223.5	0.0802	0.00280	mg/L	0.0802	3.50 %
2013/06/27 10:11:33 QC value greater than the upper limit for Sb 206.833 Recovery = 200.39%						
Se 196.026	116.6	0.0386	0.00212	mg/L	0.0386	5.51 %
2013/06/27 10:11:33 QC value within limits for Se 196.026 Recovery = 96.38%						
Sn 189.933	1,674.1	0.1552	0.00195	mg/L	0.1552	1.25 %
2013/06/27 10:11:33 QC value greater than the upper limit for Sn 189.933 Recovery = 388.10%						
Sr 421.539R	149,012.9	0.1950	0.00060	mg/L	0.1950	0.31 %
2013/06/27 10:11:33 QC value greater than the upper limit for Sr 421.539R Recovery = 390.01%						
Ti 337.280	11,998.8	0.0193	0.00012	mg/L	0.0193	0.63 %
2013/06/27 10:11:33 QC value greater than the upper limit for Ti 337.280 Recovery = 386.85%						
Tl 190.800	147.5	0.0415	0.00311	mg/L	0.0415	7.47 %
2013/06/27 10:11:33 QC value greater than the upper limit for Tl 190.800 Recovery = 207.70%						
V 292.402	8,963.1	0.0410	0.00037	mg/L	0.0410	0.90 %
2013/06/27 10:11:33 QC value greater than the upper limit for V 292.402 Recovery = 409.77%						
Zn 206.191	2,330.1	0.0404	0.00031	mg/L	0.0404	0.77 %
2013/06/27 10:11:33 QC value greater than the upper limit for Zn 206.191 Recovery = 403.55%						

Mean Data

ID: QCS-1 **Seq. No.:** 8 **A/S Pos:** 5

2013/06/27 10:13:48 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:12:36

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	227,276.2	98.25	0.234	%				0.24 %
Y 324.227A	1,350,876.0	97.09	0.193	%				0.20 %
Ag 328.068	103,928.4	0.5087	0.00088	mg/L	0.5087			0.17 %
2013/06/27 10:13:46 QC value within limits for Ag 328.068 Recovery = 101.74%								
Al 308.215	6,614.0	5.02	0.076	mg/L	5.02			1.52 %
2013/06/27 10:13:46 QC value within limits for Al 308.215 Recovery = 100.33%								
As 188.979	1,083.1	0.4929	0.00387	mg/L	0.4929			0.79 %
2013/06/27 10:13:46 QC value within limits for As 188.979 Recovery = 98.58%								
Ba 233.527	60,644.7	0.5002	0.00163	mg/L	0.5002			0.33 %
2013/06/27 10:13:46 QC value within limits for Ba 233.527 Recovery = 100.05%								
Be 313.107	224,446.8	0.0495	0.00004	mg/L	0.0495			0.09 %
2013/06/27 10:13:46 QC value within limits for Be 313.107 Recovery = 99.00%								
B 208.959	25,246.2	2.412	0.0047	mg/L	2.412			0.20 %
2013/06/27 10:13:46 QC value within limits for B 208.959 Recovery = 96.49%								
Ca 317.933	147,989.7	5.048	0.0266	mg/L	5.048			0.53 %
2013/06/27 10:13:46 QC value within limits for Ca 317.933 Recovery = 100.96%								
Cd 228.802	2,098.7	0.0494	0.00039	mg/L	0.0494			0.80 %
2013/06/27 10:13:46 QC value within limits for Cd 228.802 Recovery = 98.87%								
Co 228.616	25,536.1	0.5140	0.00155	mg/L	0.5140			0.30 %
2013/06/27 10:13:46 QC value within limits for Co 228.616 Recovery = 102.80%								
Cr 267.716	62,979.0	0.5005	0.00076	mg/L	0.5005			0.15 %
2013/06/27 10:13:46 QC value within limits for Cr 267.716 Recovery = 100.11%								
Cu 324.754	131,605.4	0.5039	0.00099	mg/L	0.5039			0.20 %
2013/06/27 10:13:46 QC value within limits for Cu 324.754 Recovery = 100.79%								
Fe 273.955	62,126.2	2.465	0.0038	mg/L	2.465			0.15 %
2013/06/27 10:13:46 QC value within limits for Fe 273.955 Recovery = 98.58%								
K 766.491R	57,271.7	24.5	0.08	mg/L	24.5			0.34 %
2013/06/27 10:13:46 QC value within limits for K 766.491R Recovery = 97.94%								
Li 670.781R	34,970.2	0.500	0.0030	mg/L	0.500			0.60 %
2013/06/27 10:13:46 QC value within limits for Li 670.781R Recovery = 99.99%								
Mg 279.079R	12,023.5	4.96	0.054	mg/L	4.96			1.09 %
2013/06/27 10:13:46 QC value within limits for Mg 279.079R Recovery = 99.17%								
Mn 257.610	366,072.8	0.4998	0.00060	mg/L	0.4998			0.12 %
2013/06/27 10:13:46 QC value within limits for Mn 257.610 Recovery = 99.95%								
Mo 202.030	9,209.3	0.4945	0.00036	mg/L	0.4945			0.07 %

2013/06/27 10:13:46 QC value within limits for Mo 202.030 Recovery = 98.89%

Na 589.592R	245,267.2	24.2	0.01	mg/L	24.2	0.04 %

2013/06/27 10:13:46 QC value within limits for Na 589.592R Recovery = 96.93%

Ni 231.604	27,887.8	0.504	0.0007	mg/L	0.504	0.13 %

2013/06/27 10:13:46 QC value within limits for Ni 231.604 Recovery = 100.75%

Pb 220.353	5,501.5	0.5057	0.00079	mg/L	0.5057	0.16 %

2013/06/27 10:13:46 QC value within limits for Pb 220.353 Recovery = 101.14%

Sb 206.833	1,385.9	0.4864	0.00239	mg/L	0.4864	0.49 %

2013/06/27 10:13:46 QC value within limits for Sb 206.833 Recovery = 97.28%

Se 196.026	1,503.3	0.4987	0.00457	mg/L	0.4987	0.92 %

2013/06/27 10:13:47 QC value within limits for Se 196.026 Recovery = 99.74%

Sn 189.933	5,372.1	0.4982	0.00032	mg/L	0.4982	0.06 %

2013/06/27 10:13:47 QC value within limits for Sn 189.933 Recovery = 99.65%

Sr 421.539R	378,109.3	0.4948	0.00032	mg/L	0.4948	0.07 %

2013/06/27 10:13:46 QC value within limits for Sr 421.539R Recovery = 98.96%

Ti 337.280	155,105.9	0.2500	0.00051	mg/L	0.2500	0.20 %

2013/06/27 10:13:47 QC value within limits for Ti 337.280 Recovery = 100.02%

Tl 190.800	1,812.5	0.5083	0.00226	mg/L	0.5083	0.45 %

2013/06/27 10:13:47 QC value within limits for Tl 190.800 Recovery = 101.65%

V 292.402	110,668.7	0.5058	0.00069	mg/L	0.5058	0.14 %

2013/06/27 10:13:47 QC value within limits for V 292.402 Recovery = 101.15%

Zn 206.191	28,913.3	0.5005	0.00063	mg/L	0.5005	0.13 %

2013/06/27 10:13:47 QC value within limits for Zn 206.191 Recovery = 100.11%

Mean Data

ID: RINSE **Seq. No.:** 9 **A/S Pos:** 10

2013/06/27 10:15:50 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:14:32

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	232,449.1	100.5	0.84	%				0.84 %
Y 324.227A	1,386,715.9	99.67	0.345	%				0.35 %
Ag 328.068	121.7	0.0006	0.00037	mg/L	0.0006			62.15 %

2013/06/27 10:15:49 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	12.8	0.010	0.0256	mg/L	0.010	264.98 %

2013/06/27 10:15:49 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	3.1	0.0014	0.00264	mg/L	0.0014	185.95 %

2013/06/27 10:15:49 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-28.6	-0.0002	0.00008	mg/L	-0.0002	33.63 %

2013/06/27 10:15:49 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	322.5	0.0001	0.00003	mg/L	0.0001	45.02 %

2013/06/27 10:15:49 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	100.6	0.0096	0.00205	mg/L	0.0096	21.21 %

2013/06/27 10:15:49 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	-35.3	-0.0012	0.00047	mg/L	-0.0012	39.35 %

2013/06/27 10:15:49 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	5.4	0.0001	0.00017	mg/L	0.0001	136.59 %

2013/06/27 10:15:49 QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616	-15.6	-0.0003	0.00017	mg/L	-0.0003	55.07 %

2013/06/27 10:15:49 QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716	4.4	0.0000	0.00009	mg/L	0.0000	244.51 %

2013/06/27 10:15:49 QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.754	27.8	0.0001	0.00035	mg/L	0.0001	329.88 %

2013/06/27 10:15:49 QC value within limits for Cu 324.754 Recovery = Not calculated

Fe 273.955	65.3	0.0026	0.00079	mg/L	0.0026	30.34 %

2013/06/27 10:15:49 QC value within limits for Fe 273.955 Recovery = Not calculated

K 766.491R	418.9	0.179	0.0220	mg/L	0.179	12.30 %

2013/06/27 10:15:49 QC value within limits for K 766.491R Recovery = Not calculated

Li 670.781R	-117.4	-0.002	0.0014	mg/L	-0.002	81.85 %

2013/06/27 10:15:49 QC value within limits for Li 670.781R Recovery = Not calculated

Mg 279.079R	35.5	0.015	0.0141	mg/L	0.015	96.31 %

2013/06/27 10:15:49 QC value within limits for Mg 279.079R Recovery = Not calculated

Mn 257.610	-14.1	0.0000	0.00000	mg/L	0.0000		19.01 %
2013/06/27 10:15:49 QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.030	27.3	0.0015	0.00042	mg/L	0.0015		28.46 %
2013/06/27 10:15:49 QC value within limits for Mo 202.030 Recovery = Not calculated							
Na 589.592R	94.6	0.009	0.0092	mg/L	0.009		98.52 %
2013/06/27 10:15:49 QC value within limits for Na 589.592R Recovery = Not calculated							
Ni 231.604	3.5	0.000	0.0004	mg/L	0.000		593.44 %
2013/06/27 10:15:49 QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	24.1	0.0022	0.00072	mg/L	0.0022		32.54 %
2013/06/27 10:15:49 QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.833	-6.4	-0.0023	0.00475	mg/L	-0.0023		207.38 %
2013/06/27 10:15:49 QC value within limits for Sb 206.833 Recovery = Not calculated							
Se 196.026	-10.3	-0.0034	0.00346	mg/L	-0.0034		101.37 %
2013/06/27 10:15:49 QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.933	-0.1	0.0000	0.00117	mg/L	0.0000		8,838.95 %
2013/06/27 10:15:49 QC value within limits for Sn 189.933 Recovery = Not calculated							
Sr 421.539R	231.2	0.0003	0.00007	mg/L	0.0003		21.72 %
2013/06/27 10:15:49 QC value within limits for Sr 421.539R Recovery = Not calculated							
Ti 337.280	100.0	0.0002	0.00014	mg/L	0.0002		85.78 %
2013/06/27 10:15:49 QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl 190.800	-1.8	-0.0005	0.00063	mg/L	-0.0005		127.32 %
2013/06/27 10:15:49 QC value within limits for Tl 190.800 Recovery = Not calculated							
V 292.402	136.2	0.0006	0.00007	mg/L	0.0006		11.23 %
2013/06/27 10:15:49 QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.191	64.4	0.0011	0.00019	mg/L	0.0011		17.17 %
2013/06/27 10:15:49 QC value within limits for Zn 206.191 Recovery = Not calculated							

Mean Data

ID: ICS_A **Seq. No.:** 10 **A/S Pos:** 7

2013/06/27 10:17:48 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2013/06/27 10:16:38

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	213,411.2	92.25	1.088	%				1.18 %
Y 324.227A	1,219,699.3	87.66	0.553	%				0.63 %
Ag 328.068	-1,416.8	0.0001	0.00090	mg/L	0.0001			744.10 %
2013/06/27 10:17:47 QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215	660,328.7	502	0.5	mg/L	502			0.09 %
2013/06/27 10:17:47 QC value within limits for Al 308.215 Recovery = 100.49%								
As 188.979	-319.1	-0.0060	0.00604	mg/L	-0.0060			99.87 %
2013/06/27 10:17:47 QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527	1,635.9	0.0024	0.00020	mg/L	0.0024			8.34 %
2013/06/27 10:17:47 QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-541.4	-0.0004	0.00002	mg/L	-0.0004			6.59 %
2013/06/27 10:17:47 QC value within limits for Be 313.107 Recovery = Not calculated								
B 208.959	748.3	0.0148	0.00145	mg/L	0.0148			9.82 %
2013/06/27 10:17:47 QC value within limits for B 208.959 Recovery = Not calculated								
Ca 317.933	14,172,053.9	483.4	5.84	mg/L	483.4			1.21 %
2013/06/27 10:17:47 QC value within limits for Ca 317.933 Recovery = 96.68%								
Cd 228.802	53.2	0.0005	0.00017	mg/L	0.0005			32.97 %
2013/06/27 10:17:47 QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	509.6	0.0035	0.00010	mg/L	0.0035			2.71 %
2013/06/27 10:17:47 QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-285.4	-0.0023	0.00007	mg/L	-0.0023			3.05 %
2013/06/27 10:17:47 QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.754	-5,144.0	0.0009	0.00066	mg/L	0.0009			76.90 %
2013/06/27 10:17:47 QC value within limits for Cu 324.754 Recovery = Not calculated								
Fe 273.955	4,727,513.2	187.8	0.45	mg/L	187.8			0.24 %
2013/06/27 10:17:47 QC value within limits for Fe 273.955 Recovery = 93.89%								
K 766.491R	153.8	0.066	0.0138	mg/L	0.066			21.02 %
2013/06/27 10:17:47 QC value within limits for K 766.491R Recovery = Not calculated								
Li 670.781R	35.6	0.001	0.0009	mg/L	0.001			174.18 %

2013/06/27 10:17:47 QC value within limits for Li 670.781R Recovery = Not calculated

Mg 279.079R	1,147,419.6	473	0.2	mg/L	473	0.04 %

2013/06/27 10:17:47 QC value within limits for Mg 279.079R Recovery = 94.64%

Mn 257.610	3,173.1	0.0043	0.00010	mg/L	0.0043	2.35 %

2013/06/27 10:17:47 QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.030	-166.0	0.0046	0.00019	mg/L	0.0046	4.00 %

2013/06/27 10:17:47 QC value within limits for Mo 202.030 Recovery = Not calculated

Na 589.592R	411.8	0.041	0.0110	mg/L	0.041	27.09 %

2013/06/27 10:17:47 QC value within limits for Na 589.592R Recovery = Not calculated

Ni 231.604	-143.3	-0.003	0.0002	mg/L	-0.003	7.57 %

2013/06/27 10:17:47 QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353	-2,050.7	0.0105	0.00282	mg/L	0.0105	26.80 %

2013/06/27 10:17:47 QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.833	607.3	-0.0002	0.00847	mg/L	-0.0002	5,405.36 %

2013/06/27 10:17:47 QC value within limits for Sb 206.833 Recovery = Not calculated

Se 196.026	57.5	-0.0175	0.00905	mg/L	-0.0175	51.84 %

2013/06/27 10:17:47 QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.933	92.3	-0.0095	0.00231	mg/L	-0.0095	24.28 %

2013/06/27 10:17:47 QC value within limits for Sn 189.933 Recovery = Not calculated

Sr 421.539R	2,522.0	0.0033	0.00016	mg/L	0.0033	4.79 %

2013/06/27 10:17:47 QC value within limits for Sr 421.539R Recovery = Not calculated

Ti 337.280	407.0	0.0007	0.00026	mg/L	0.0007	39.86 %

2013/06/27 10:17:47 QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	-482.7	0.0178	0.00116	mg/L	0.0178	6.55 %

2013/06/27 10:17:47 QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	745.7	-0.0017	0.00050	mg/L	-0.0017	30.00 %

2013/06/27 10:17:47 QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.191	-592.7	0.0008	0.00006	mg/L	0.0008	7.69 %

2013/06/27 10:17:47 QC value within limits for Zn 206.191 Recovery = Not calculated

Mean Data

ID: ICS_B **Seq. No.:** 11 **A/S Pos:** 4

2013/06/27 10:18:55 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:18:36

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	212,588.8	91.90	1.291	%				1.40 %
Y 324.227A	1,218,904.5	87.60	0.229	%				0.26 %
Ag 328.068	218,091.6	1.074	0.0008	mg/L	1.074			0.07 %

2013/06/27 10:18:54 QC value within limits for Ag 328.068 Recovery = 107.38%

Al 308.215	660,928.6	503	0.3	mg/L	503	0.06 %

2013/06/27 10:18:54 QC value within limits for Al 308.215 Recovery = 100.58%

As 188.979	1,894.5	0.9983	0.01212	mg/L	0.9983	1.21 %

2013/06/27 10:18:54 QC value within limits for As 188.979 Recovery = 99.83%

Ba 233.527	121,256.2	0.9895	0.00104	mg/L	0.9895	0.11 %

2013/06/27 10:18:54 QC value within limits for Ba 233.527 Recovery = 98.95%

Be 313.107	4,478,605.1	0.9886	0.00115	mg/L	0.9886	0.12 %

2013/06/27 10:18:54 QC value within limits for Be 313.107 Recovery = 98.86%

B 208.959	11,317.8	0.9762	0.00525	mg/L	0.9762	0.54 %

2013/06/27 10:18:54 QC value within limits for B 208.959 Recovery = 97.62%

Ca 317.933	14,128,777.0	481.9	6.35	mg/L	481.9	1.32 %

2013/06/27 10:18:54 QC value within limits for Ca 317.933 Recovery = 96.39%

Cd 228.802	43,202.5	1.015	0.0069	mg/L	1.015	0.68 %

2013/06/27 10:18:54 QC value within limits for Cd 228.802 Recovery = 101.48%

Co 228.616	46,325.7	0.9249	0.00700	mg/L	0.9249	0.76 %

2013/06/27 10:18:54 QC value within limits for Co 228.616 Recovery = 92.49%

Cr 267.716	120,916.1	0.9610	0.00153	mg/L	0.9610	0.16 %

2013/06/27 10:18:54 QC value within limits for Cr 267.716 Recovery = 96.10%

Cu 324.754	268,143.3	1.047	0.0015	mg/L	1.047	0.14 %

2013/06/27 10:18:54 QC value within limits for Cu 324.754 Recovery = 104.71%

Fe 273.955	4,712,653.3	187.2	0.21	mg/L	187.2	0.11 %

2013/06/27 10:18:54 QC value within limits for Fe 273.955 Recovery = 93.59%

K 766.491R	25,345.0	10.8	0.04	mg/L	10.8	0.34 %
2013/06/27 10:18:54 QC value within limits for K 766.491R Recovery = 108.36%						
Li 670.781R	73,382.7	1.05	0.002	mg/L	1.05	0.21 %
2013/06/27 10:18:54 QC value within limits for Li 670.781R Recovery = 104.91%						
Mg 279.079R	1,143,612.0	472	0.5	mg/L	472	0.10 %
2013/06/27 10:18:54 QC value within limits for Mg 279.079R Recovery = 94.33%						
Mn 257.610	705,018.8	0.9625	0.00085	mg/L	0.9625	0.09 %
2013/06/27 10:18:54 QC value within limits for Mn 257.610 Recovery = 96.25%						
Mo 202.030	17,814.8	0.9698	0.01038	mg/L	0.9698	1.07 %
2013/06/27 10:18:54 QC value within limits for Mo 202.030 Recovery = 96.98%						
Na 589.592R	530,340.4	52.4	0.03	mg/L	52.4	0.07 %
2013/06/27 10:18:54 QC value within limits for Na 589.592R Recovery = 104.79%						
Ni 231.604	50,269.6	0.908	0.0081	mg/L	0.908	0.89 %
2013/06/27 10:18:54 QC value within limits for Ni 231.604 Recovery = 90.81%						
Pb 220.353	8,162.3	0.9458	0.00987	mg/L	0.9458	1.04 %
2013/06/27 10:18:54 QC value within limits for Pb 220.353 Recovery = 94.58%						
Sb 206.833	3,358.8	0.9703	0.00198	mg/L	0.9703	0.20 %
2013/06/27 10:18:54 QC value within limits for Sb 206.833 Recovery = 97.03%						
Se 196.026	2,979.8	0.9521	0.01663	mg/L	0.9521	1.75 %
2013/06/27 10:18:54 QC value within limits for Se 196.026 Recovery = 95.21%						
Sn 189.933	9,972.7	0.9072	0.00472	mg/L	0.9072	0.52 %
2013/06/27 10:18:54 QC value within limits for Sn 189.933 Recovery = 90.72%						
Sr 421.539R	768,038.4	1.005	0.0019	mg/L	1.005	0.19 %
2013/06/27 10:18:54 QC value within limits for Sr 421.539R Recovery = 100.51%						
Ti 337.280	615,418.2	0.9921	0.00124	mg/L	0.9921	0.12 %
2013/06/27 10:18:54 QC value within limits for Ti 337.280 Recovery = 99.21%						
Tl 190.800	2,834.3	0.9449	0.01208	mg/L	0.9449	1.28 %
2013/06/27 10:18:54 QC value within limits for Tl 190.800 Recovery = 94.49%						
V 292.402	221,058.4	1.004	0.0010	mg/L	1.004	0.10 %
2013/06/27 10:18:54 QC value within limits for V 292.402 Recovery = 100.45%						
Zn 206.191	52,752.8	0.9243	0.00910	mg/L	0.9243	0.98 %
2013/06/27 10:18:54 QC value within limits for Zn 206.191 Recovery = 92.43%						

Mean Data

ID: RINSE **Seq. No.:** 12 **A/S Pos:** 10

2013/06/27 10:20:57 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:19:39

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,504.5	99.21	0.107	%				0.11 %
Y 324.227A	1,385,570.9	99.58	0.261	%				0.26 %
Ag 328.068	182.9	0.0009	0.00034	mg/L	0.0009			37.90 %
2013/06/27 10:20:56 QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215	94.0	0.071	0.0305	mg/L	0.071			42.75 %
2013/06/27 10:20:56 QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	11.2	0.0051	0.00066	mg/L	0.0051			12.97 %
2013/06/27 10:20:56 QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527	-46.3	-0.0004	0.00019	mg/L	-0.0004			48.62 %
2013/06/27 10:20:56 QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	790.5	0.0002	0.00005	mg/L	0.0002			31.38 %
2013/06/27 10:20:56 QC value within limits for Be 313.107 Recovery = Not calculated								
B 208.959	33.3	0.0031	0.00130	mg/L	0.0031			42.01 %
2013/06/27 10:20:56 QC value within limits for B 208.959 Recovery = Not calculated								
Ca 317.933	1,449.6	0.0494	0.01032	mg/L	0.0494			20.86 %
2013/06/27 10:20:56 QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802	10.3	0.0002	0.00015	mg/L	0.0002			61.49 %
2013/06/27 10:20:56 QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	-31.0	-0.0006	0.00004	mg/L	-0.0006			6.03 %
2013/06/27 10:20:56 QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	39.4	0.0003	0.00045	mg/L	0.0003			144.15 %
2013/06/27 10:20:56 QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.754	-7.2	0.0000	0.00015	mg/L	0.0000			584.01 %

2013/06/27 10:20:56 QC value within limits for Cu 324.754 Recovery = Not calculated

Fe 273.955	671.7	0.0267	0.00217	mg/L	0.0267	8.12 %

2013/06/27 10:20:56 QC value within limits for Fe 273.955 Recovery = Not calculated

K 766.491R	174.9	0.075	0.0336	mg/L	0.075	44.97 %

2013/06/27 10:20:56 QC value within limits for K 766.491R Recovery = Not calculated

Li 670.781R	-65.4	-0.001	0.0013	mg/L	-0.001	144.08 %

2013/06/27 10:20:56 QC value within limits for Li 670.781R Recovery = Not calculated

Mg 279.079R	176.4	0.073	0.0280	mg/L	0.073	38.54 %

2013/06/27 10:20:56 QC value within limits for Mg 279.079R Recovery = Not calculated

Mn 257.610	-10.3	0.0000	0.00003	mg/L	0.0000	213.96 %

2013/06/27 10:20:56 QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.030	34.3	0.0018	0.00058	mg/L	0.0018	31.63 %

2013/06/27 10:20:56 QC value within limits for Mo 202.030 Recovery = Not calculated

Na 589.592R	33.9	0.003	0.0055	mg/L	0.003	163.87 %

2013/06/27 10:20:56 QC value within limits for Na 589.592R Recovery = Not calculated

Ni 231.604	21.5	0.000	0.0006	mg/L	0.000	148.14 %

2013/06/27 10:20:56 QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353	41.3	0.0038	0.00145	mg/L	0.0038	38.22 %

2013/06/27 10:20:56 QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.833	-13.8	-0.0050	0.00097	mg/L	-0.0050	19.51 %

2013/06/27 10:20:56 QC value within limits for Sb 206.833 Recovery = Not calculated

Se 196.026	-7.5	-0.0025	0.00259	mg/L	-0.0025	102.95 %

2013/06/27 10:20:56 QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.933	5.7	0.0005	0.00077	mg/L	0.0005	146.80 %

2013/06/27 10:20:56 QC value within limits for Sn 189.933 Recovery = Not calculated

Sr 421.539R	126.1	0.0002	0.00015	mg/L	0.0002	88.82 %

2013/06/27 10:20:56 QC value within limits for Sr 421.539R Recovery = Not calculated

Ti 337.280	209.0	0.0003	0.00009	mg/L	0.0003	26.95 %

2013/06/27 10:20:56 QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	25.9	0.0073	0.00124	mg/L	0.0073	16.98 %

2013/06/27 10:20:56 QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	16.3	0.0001	0.00024	mg/L	0.0001	266.18 %

2013/06/27 10:20:56 QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.191	92.2	0.0016	0.00020	mg/L	0.0016	12.61 %

2013/06/27 10:20:56 QC value within limits for Zn 206.191 Recovery = Not calculated

Mean Data

ID: CVS **Seq. No.:** 13 **A/S Pos:** 3

2013/06/27 10:22:55 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:21:42

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,353.3	97.85	0.249	%				0.25 %
Y 324.227A	1,340,445.5	96.34	0.750	%				0.78 %
Ag 328.068	100,565.1	0.4922	0.00143	mg/L	0.4922			0.29 %

2013/06/27 10:22:53 QC value within limits for Ag 328.068 Recovery = 98.45%

Al 308.215	6,376.4	4.84	0.015	mg/L	4.84	0.30 %

2013/06/27 10:22:53 QC value within limits for Al 308.215 Recovery = 96.72%

As 188.979	1,055.7	0.4804	0.00271	mg/L	0.4804	0.56 %

2013/06/27 10:22:53 QC value within limits for As 188.979 Recovery = 96.08%

Ba 233.527	58,728.6	0.4844	0.00174	mg/L	0.4844	0.36 %

2013/06/27 10:22:53 QC value within limits for Ba 233.527 Recovery = 96.89%

Be 313.107	218,759.9	0.0482	0.00010	mg/L	0.0482	0.20 %

2013/06/27 10:22:53 QC value within limits for Be 313.107 Recovery = 96.49%

B 208.959	24,870.3	2.376	0.0072	mg/L	2.376	0.30 %

2013/06/27 10:22:53 QC value within limits for B 208.959 Recovery = 95.05%

Ca 317.933	139,838.7	4.770	0.0060	mg/L	4.770	0.13 %

2013/06/27 10:22:53 QC value within limits for Ca 317.933 Recovery = 95.40%

Cd 228.802	2,083.3	0.0491	0.00004	mg/L	0.0491	0.09 %

2013/06/27 10:22:53 QC value within limits for Cd 228.802 Recovery = 98.13%

Co 228.616	24,212.1	0.4874	0.00230	mg/L	0.4874	0.47 %

2013/06/27 10:22:53 QC value within limits for Co 228.616 Recovery = 97.47%

Cr 267.716	61,406.0	0.4880	0.00178	mg/L	0.4880		0.37 %
2013/06/27 10:22:53 QC value within limits for Cr 267.716 Recovery = 97.60%							
Cu 324.754	127,949.8	0.4899	0.00105	mg/L	0.4899		0.21 %
2013/06/27 10:22:53 QC value within limits for Cu 324.754 Recovery = 97.98%							
Fe 273.955	61,060.4	2.422	0.0098	mg/L	2.422		0.40 %
2013/06/27 10:22:53 QC value within limits for Fe 273.955 Recovery = 96.89%							
K 766.491R	55,350.3	23.7	0.06	mg/L	23.7		0.25 %
2013/06/27 10:22:53 QC value within limits for K 766.491R Recovery = 94.66%							
Li 670.781R	33,637.7	0.481	0.0014	mg/L	0.481		0.30 %
2013/06/27 10:22:53 QC value within limits for Li 670.781R Recovery = 96.18%							
Mg 279.079R	11,534.7	4.76	0.015	mg/L	4.76		0.32 %
2013/06/27 10:22:53 QC value within limits for Mg 279.079R Recovery = 95.14%							
Mn 257.610	356,373.8	0.4865	0.00152	mg/L	0.4865		0.31 %
2013/06/27 10:22:53 QC value within limits for Mn 257.610 Recovery = 97.31%							
Mo 202.030	9,079.0	0.4874	0.00302	mg/L	0.4874		0.62 %
2013/06/27 10:22:53 QC value within limits for Mo 202.030 Recovery = 97.49%							
Na 589.592R	243,395.4	24.0	0.02	mg/L	24.0		0.10 %
2013/06/27 10:22:53 QC value within limits for Na 589.592R Recovery = 96.19%							
Ni 231.604	26,860.4	0.485	0.0023	mg/L	0.485		0.48 %
2013/06/27 10:22:53 QC value within limits for Ni 231.604 Recovery = 97.04%							
Pb 220.353	5,293.9	0.4866	0.00452	mg/L	0.4866		0.93 %
2013/06/27 10:22:53 QC value within limits for Pb 220.353 Recovery = 97.33%							
Sb 206.833	1,345.5	0.4721	0.00634	mg/L	0.4721		1.34 %
2013/06/27 10:22:53 QC value within limits for Sb 206.833 Recovery = 94.42%							
Se 196.026	1,421.9	0.4717	0.00418	mg/L	0.4717		0.89 %
2013/06/27 10:22:53 QC value within limits for Se 196.026 Recovery = 94.34%							
Sn 189.933	5,188.2	0.4812	0.00244	mg/L	0.4812		0.51 %
2013/06/27 10:22:53 QC value within limits for Sn 189.933 Recovery = 96.24%							
Sr 421.539R	370,851.5	0.4853	0.00054	mg/L	0.4853		0.11 %
2013/06/27 10:22:53 QC value within limits for Sr 421.539R Recovery = 97.06%							
Ti 337.280	152,257.9	0.2454	0.00079	mg/L	0.2454		0.32 %
2013/06/27 10:22:53 QC value within limits for Ti 337.280 Recovery = 98.18%							
Tl 190.800	1,744.3	0.4892	0.00135	mg/L	0.4892		0.28 %
2013/06/27 10:22:53 QC value within limits for Tl 190.800 Recovery = 97.84%							
V 292.402	107,850.1	0.4929	0.00123	mg/L	0.4929		0.25 %
2013/06/27 10:22:53 QC value within limits for V 292.402 Recovery = 98.59%							
Zn 206.191	27,756.1	0.4805	0.00197	mg/L	0.4805		0.41 %
2013/06/27 10:22:53 QC value within limits for Zn 206.191 Recovery = 96.11%							

Mean Data

ID: BLK **Seq. No.:** 14 **A/S Pos:** 1

2013/06/27 10:27:08 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:25:50

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	230,091.5	99.46	0.432	%				0.43 %
Y 324.227A	1,385,505.7	99.58	0.334	%				0.34 %
Ag 328.068	189.2	0.0009	0.00047	mg/L	0.0009			50.79 %
2013/06/27 10:27:06 QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215	-25.8	-0.020	0.0657	mg/L	-0.020			334.06 %
2013/06/27 10:27:06 QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.7	0.0035	0.00307	mg/L	0.0035			88.45 %
2013/06/27 10:27:06 QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527	-47.1	-0.0004	0.00006	mg/L	-0.0004			14.89 %
2013/06/27 10:27:06 QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	396.6	0.0001	0.00002	mg/L	0.0001			21.16 %
2013/06/27 10:27:06 QC value within limits for Be 313.107 Recovery = Not calculated								
B 208.959	49.3	0.0047	0.00092	mg/L	0.0047			19.73 %
2013/06/27 10:27:06 QC value within limits for B 208.959 Recovery = Not calculated								
Ca 317.933	82.1	0.0028	0.00146	mg/L	0.0028			52.04 %
2013/06/27 10:27:06 QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802	19.0	0.0004	0.00020	mg/L	0.0004			44.50 %

2013/06/27 10:27:06 QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616	-33.5	-0.0007	0.00018	mg/L	-0.0007	27.18 %

2013/06/27 10:27:06 QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716	-0.2	0.0000	0.00021	mg/L	0.0000	1,850.85 %

2013/06/27 10:27:06 QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.754	52.1	0.0002	0.00044	mg/L	0.0002	222.01 %

2013/06/27 10:27:06 QC value within limits for Cu 324.754 Recovery = Not calculated

Fe 273.955	89.6	0.0036	0.00047	mg/L	0.0036	13.29 %

2013/06/27 10:27:06 QC value within limits for Fe 273.955 Recovery = Not calculated

K 766.491R	201.8	0.086	0.0480	mg/L	0.086	55.68 %

2013/06/27 10:27:06 QC value within limits for K 766.491R Recovery = Not calculated

Li 670.781R	-151.8	-0.002	0.0003	mg/L	-0.002	13.67 %

2013/06/27 10:27:06 QC value within limits for Li 670.781R Recovery = Not calculated

Mg 279.079R	33.2	0.014	0.0180	mg/L	0.014	131.48 %

2013/06/27 10:27:06 QC value within limits for Mg 279.079R Recovery = Not calculated

Mn 257.610	-20.2	0.0000	0.00003	mg/L	0.0000	99.31 %

2013/06/27 10:27:06 QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.030	32.7	0.0018	0.00038	mg/L	0.0018	21.67 %

2013/06/27 10:27:06 QC value within limits for Mo 202.030 Recovery = Not calculated

Na 589.592R	150.1	0.015	0.0069	mg/L	0.015	46.26 %

2013/06/27 10:27:06 QC value within limits for Na 589.592R Recovery = Not calculated

Ni 231.604	31.7	0.001	0.0000	mg/L	0.001	5.73 %

2013/06/27 10:27:06 QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353	40.0	0.0037	0.00110	mg/L	0.0037	30.07 %

2013/06/27 10:27:06 QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.833	-16.3	-0.0059	0.00298	mg/L	-0.0059	50.86 %

2013/06/27 10:27:06 QC value within limits for Sb 206.833 Recovery = Not calculated

Se 196.026	-7.2	-0.0024	0.00336	mg/L	-0.0024	140.03 %

2013/06/27 10:27:06 QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.933	-1.1	-0.0001	0.00053	mg/L	-0.0001	534.36 %

2013/06/27 10:27:06 QC value within limits for Sn 189.933 Recovery = Not calculated

Sr 421.539R	136.9	0.0002	0.00009	mg/L	0.0002	49.02 %

2013/06/27 10:27:06 QC value within limits for Sr 421.539R Recovery = Not calculated

Ti 337.280	259.5	0.0004	0.00015	mg/L	0.0004	34.71 %

2013/06/27 10:27:06 QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	19.4	0.0054	0.00204	mg/L	0.0054	37.52 %

2013/06/27 10:27:06 QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	-30.4	-0.0001	0.00058	mg/L	-0.0001	476.02 %

2013/06/27 10:27:06 QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.191	135.6	0.0023	0.00004	mg/L	0.0023	1.81 %

2013/06/27 10:27:06 QC value within limits for Zn 206.191 Recovery = Not calculated

Mean Data

ID: 3F25018-blk1 **Seq. No.:** 15 **A/S Pos:** 401

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:27:53

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	233,853.4	101.1	0.79	%			%	0.78 %
Y 324.227A	1,372,371.6	98.63	0.571	%			%	0.58 %
Ag 328.068	143.1	0.0007	0.00074	mg/L	0.0007	0.00074	mg/L	106.00 %
Al 308.215	39.1	0.030	0.0110	mg/L	0.030	0.0110	mg/L	37.15 %
As 188.979	8.6	0.0039	0.00188	mg/L	0.0039	0.00188	mg/L	48.32 %
Ba 233.527	-50.0	-0.0004	0.00011	mg/L	-0.0004	0.00011	mg/L	27.34 %
Be 313.107	406.4	0.0001	0.00002	mg/L	0.0001	0.00002	mg/L	17.18 %
B 208.959	17.4	0.0016	0.00043	mg/L	0.0016	0.00043	mg/L	27.11 %
Ca 317.933	-27.9	-0.0010	0.00179	mg/L	-0.0010	0.00179	mg/L	188.52 %
Cd 228.802	27.0	0.0006	0.00007	mg/L	0.0006	0.00007	mg/L	11.67 %
Co 228.616	-34.7	-0.0007	0.00021	mg/L	-0.0007	0.00021	mg/L	29.82 %
Cr 267.716	3.6	0.0000	0.00011	mg/L	0.0000	0.00011	mg/L	379.78 %
Cu 324.754	-89.2	-0.0003	0.00025	mg/L	-0.0003	0.00025	mg/L	72.85 %
Fe 273.955	63.2	0.0025	0.00060	mg/L	0.0025	0.00060	mg/L	23.87 %

K 766.491R	234.0	0.100	0.0684	mg/L	0.100	0.0684	mg/L	68.32	%
Li 670.781R	-173.2	-0.002	0.0033	mg/L	-0.002	0.0033	mg/L	135.21	%
Mg 279.079R	12.4	0.005	0.0051	mg/L	0.005	0.0051	mg/L	99.43	%
Mn 257.610	-14.5	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	107.38	%
Mo 202.030	26.1	0.0014	0.00051	mg/L	0.0014	0.00051	mg/L	36.45	%
Na 589.592R	97.0	0.010	0.0099	mg/L	0.010	0.0099	mg/L	103.46	%
Ni 231.604	54.2	0.001	0.0002	mg/L	0.001	0.0002	mg/L	24.46	%
Pb 220.353	50.9	0.0047	0.00207	mg/L	0.0047	0.00207	mg/L	44.39	%
Sb 206.833	-19.4	-0.0069	0.00637	mg/L	-0.0069	0.00637	mg/L	91.70	%
Se 196.026	-14.5	-0.0048	0.00064	mg/L	-0.0048	0.00064	mg/L	13.19	%
Sn 189.933	6.7	0.0006	0.00081	mg/L	0.0006	0.00081	mg/L	128.88	%
Sr 421.539R	92.7	0.0001	0.00024	mg/L	0.0001	0.00024	mg/L	197.37	%
Ti 337.280	53.5	0.0001	0.00032	mg/L	0.0001	0.00032	mg/L	367.91	%
Tl 190.800	25.1	0.0070	0.00312	mg/L	0.0070	0.00312	mg/L	44.32	%
V 292.402	114.3	0.0005	0.00016	mg/L	0.0005	0.00016	mg/L	30.53	%
Zn 206.191	75.9	0.0013	0.00023	mg/L	0.0013	0.00023	mg/L	17.81	%

Mean Data

ID: 3F25018-bs1 **Seq. No.:** 16 **A/S Pos:** 402

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:29:54

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	226,867.2	98.07	0.463	%			%	0.47	%
Y 324.227A	1,347,994.0	96.88	0.323	%			%	0.33	%
Ag 328.068	19,705.7	0.0996	0.00043	mg/L	0.0996	0.00043	mg/L	0.43	%
Al 308.215	6,600.2	5.01	0.033	mg/L	5.01	0.033	mg/L	0.65	%
As 188.979	1,029.4	0.4685	0.00128	mg/L	0.4685	0.00128	mg/L	0.27	%
Ba 233.527	56,699.7	0.4677	0.00055	mg/L	0.4677	0.00055	mg/L	0.12	%
Be 313.107	216,339.0	0.0477	0.00008	mg/L	0.0477	0.00008	mg/L	0.16	%
B 208.959	24,600.7	2.352	0.0104	mg/L	2.352	0.0104	mg/L	0.44	%
Ca 317.933	142,374.3	4.856	0.0381	mg/L	4.856	0.0381	mg/L	0.78	%
Cd 228.802	2,058.5	0.0485	0.00003	mg/L	0.0485	0.00003	mg/L	0.07	%
Co 228.616	23,588.6	0.4748	0.00172	mg/L	0.4748	0.00172	mg/L	0.36	%
Cr 267.716	59,936.1	0.4763	0.00041	mg/L	0.4763	0.00041	mg/L	0.09	%
Cu 324.754	125,391.1	0.4801	0.00089	mg/L	0.4801	0.00089	mg/L	0.19	%
Fe 273.955	59,810.4	2.373	0.0037	mg/L	2.373	0.0037	mg/L	0.16	%
K 766.491R	56,412.5	24.1	0.08	mg/L	24.1	0.08	mg/L	0.33	%
Li 670.781R	33,401.2	0.477	0.0013	mg/L	0.477	0.0013	mg/L	0.28	%
Mg 279.079R	11,416.2	4.71	0.033	mg/L	4.71	0.033	mg/L	0.69	%
Mn 257.610	345,123.1	0.4712	0.00064	mg/L	0.4712	0.00064	mg/L	0.14	%
Mo 202.030	8,685.7	0.4663	0.00231	mg/L	0.4663	0.00231	mg/L	0.50	%
Na 589.592R	241,426.6	23.9	0.04	mg/L	23.9	0.04	mg/L	0.15	%
Ni 231.604	26,293.8	0.475	0.0015	mg/L	0.475	0.0015	mg/L	0.31	%
Pb 220.353	5,204.3	0.4785	0.00169	mg/L	0.4785	0.00169	mg/L	0.35	%
Sb 206.833	1,292.2	0.4532	0.00416	mg/L	0.4532	0.00416	mg/L	0.92	%
Se 196.026	1,407.9	0.4670	0.00632	mg/L	0.4670	0.00632	mg/L	1.35	%
Sn 189.933	5,013.6	0.4650	0.00174	mg/L	0.4650	0.00174	mg/L	0.37	%
Sr 421.539R	362,383.8	0.4742	0.00017	mg/L	0.4742	0.00017	mg/L	0.04	%
Ti 337.280	148,523.0	0.2394	0.00027	mg/L	0.2394	0.00027	mg/L	0.11	%
Tl 190.800	1,731.2	0.4856	0.00131	mg/L	0.4856	0.00131	mg/L	0.27	%
V 292.402	106,348.2	0.4859	0.00125	mg/L	0.4859	0.00125	mg/L	0.26	%
Zn 206.191	28,583.6	0.4947	0.00140	mg/L	0.4947	0.00140	mg/L	0.28	%

Mean Data

ID: 3F25018-bsd1 **Seq. No.:** 17 **A/S Pos:** 403

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:31:49

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	228,915.7	98.95	0.886	%			%	0.90	%
Y 324.227A	1,355,524.2	97.42	0.499	%			%	0.51	%
Ag 328.068	19,683.6	0.0996	0.00091	mg/L	0.0996	0.00091	mg/L	0.91	%

Al 308.215	6,534.1	4.96	0.024	mg/L	4.96	0.024	mg/L	0.48 %
As 188.979	1,058.9	0.4819	0.00571	mg/L	0.4819	0.00571	mg/L	1.18 %
Ba 233.527	58,067.3	0.4790	0.00090	mg/L	0.4790	0.00090	mg/L	0.19 %
Be 313.107	221,899.9	0.0489	0.00012	mg/L	0.0489	0.00012	mg/L	0.25 %
B 208.959	25,169.4	2.406	0.0122	mg/L	2.406	0.0122	mg/L	0.51 %
Ca 317.933	142,441.0	4.859	0.0408	mg/L	4.859	0.0408	mg/L	0.84 %
Cd 228.802	2,101.4	0.0495	0.00047	mg/L	0.0495	0.00047	mg/L	0.96 %
Co 228.616	24,054.6	0.4842	0.00336	mg/L	0.4842	0.00336	mg/L	0.69 %
Cr 267.716	61,443.9	0.4883	0.00137	mg/L	0.4883	0.00137	mg/L	0.28 %
Cu 324.754	128,692.0	0.4928	0.00082	mg/L	0.4928	0.00082	mg/L	0.17 %
Fe 273.955	61,360.3	2.434	0.0057	mg/L	2.434	0.0057	mg/L	0.23 %
K 766.491R	55,488.3	23.7	0.02	mg/L	23.7	0.02	mg/L	0.08 %
Li 670.781R	33,980.7	0.486	0.0028	mg/L	0.486	0.0028	mg/L	0.57 %
Mg 279.079R	11,448.5	4.72	0.057	mg/L	4.72	0.057	mg/L	1.20 %
Mn 257.610	352,855.5	0.4817	0.00110	mg/L	0.4817	0.00110	mg/L	0.23 %
Mo 202.030	8,855.3	0.4754	0.00307	mg/L	0.4754	0.00307	mg/L	0.65 %
Na 589.592R	243,302.8	24.0	0.03	mg/L	24.0	0.03	mg/L	0.10 %
Ni 231.604	26,826.7	0.485	0.0035	mg/L	0.485	0.0035	mg/L	0.71 %
Pb 220.353	5,306.2	0.4878	0.00345	mg/L	0.4878	0.00345	mg/L	0.71 %
Sb 206.833	1,322.6	0.4639	0.00482	mg/L	0.4639	0.00482	mg/L	1.04 %
Se 196.026	1,446.3	0.4798	0.00352	mg/L	0.4798	0.00352	mg/L	0.73 %
Sn 189.933	5,113.2	0.4742	0.00292	mg/L	0.4742	0.00292	mg/L	0.62 %
Sr 421.539R	372,144.3	0.4870	0.00055	mg/L	0.4870	0.00055	mg/L	0.11 %
Ti 337.280	152,740.1	0.2462	0.00016	mg/L	0.2462	0.00016	mg/L	0.07 %
Tl 190.800	1,768.0	0.4958	0.00412	mg/L	0.4958	0.00412	mg/L	0.83 %
V 292.402	109,043.0	0.4982	0.00083	mg/L	0.4982	0.00083	mg/L	0.17 %
Zn 206.191	29,142.2	0.5044	0.00303	mg/L	0.5044	0.00303	mg/L	0.60 %

Mean Data

ID: b302864-01 **Seq. No.:** 18 **A/S Pos:** 404

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:33:46

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,767.3	100.2	0.62	%			%	0.62 %
Y 324.227A	1,366,841.8	98.24	1.513	%			%	1.54 %
Ag 328.068	126.4	0.0006	0.00068	mg/L	0.0006	0.00068	mg/L	109.52 %
Al 308.215	72.9	0.055	0.0250	mg/L	0.055	0.0250	mg/L	45.17 %
As 188.979	19.0	0.0086	0.00321	mg/L	0.0086	0.00321	mg/L	37.21 %
Ba 233.527	145.5	0.0012	0.00013	mg/L	0.0012	0.00013	mg/L	11.19 %
Be 313.107	293.5	0.0001	0.00005	mg/L	0.0001	0.00005	mg/L	83.49 %
B 208.959	179.4	0.0172	0.00221	mg/L	0.0172	0.00221	mg/L	12.80 %
Ca 317.933	2,587.1	0.0882	0.00358	mg/L	0.0882	0.00358	mg/L	4.06 %
Cd 228.802	17.5	0.0004	0.00009	mg/L	0.0004	0.00009	mg/L	21.69 %
Co 228.616	-20.9	-0.0004	0.00010	mg/L	-0.0004	0.00010	mg/L	24.21 %
Cr 267.716	7.0	0.0001	0.00007	mg/L	0.0001	0.00007	mg/L	134.54 %
Cu 324.754	65.6	0.0003	0.00058	mg/L	0.0003	0.00058	mg/L	231.47 %
Fe 273.955	154.7	0.0061	0.00036	mg/L	0.0061	0.00036	mg/L	5.81 %
K 766.491R	262.9	0.112	0.0436	mg/L	0.112	0.0436	mg/L	38.77 %
Li 670.781R	-208.2	-0.003	0.0006	mg/L	-0.003	0.0006	mg/L	20.05 %
Mg 279.079R	77.5	0.032	0.0034	mg/L	0.032	0.0034	mg/L	10.69 %
Mn 257.610	378.2	0.0005	0.00004	mg/L	0.0005	0.00004	mg/L	6.83 %
Mo 202.030	37.1	0.0020	0.00053	mg/L	0.0020	0.00053	mg/L	26.47 %
Na 589.592R	3,853.1	0.381	0.0071	mg/L	0.381	0.0071	mg/L	1.88 %
Ni 231.604	111.8	0.002	0.0002	mg/L	0.002	0.0002	mg/L	8.99 %
Pb 220.353	51.3	0.0047	0.00263	mg/L	0.0047	0.00263	mg/L	55.87 %
Sb 206.833	-16.6	-0.0060	0.00330	mg/L	-0.0060	0.00330	mg/L	55.25 %
Se 196.026	-11.7	-0.0039	0.00401	mg/L	-0.0039	0.00401	mg/L	102.44 %
Sn 189.933	3.4	0.0003	0.00007	mg/L	0.0003	0.00007	mg/L	21.30 %
Sr 421.539R	1,764.4	0.0023	0.00016	mg/L	0.0023	0.00016	mg/L	7.08 %
Ti 337.280	189.5	0.0003	0.00015	mg/L	0.0003	0.00015	mg/L	48.87 %
Tl 190.800	21.5	0.0060	0.00136	mg/L	0.0060	0.00136	mg/L	22.51 %

V 292.402	101.2	0.0005	0.00029	mg/L	0.0005	0.00029	mg/L	61.24 %
Zn 206.191	181.8	0.0031	0.00016	mg/L	0.0031	0.00016	mg/L	5.06 %

Mean Data

ID: 3F24008-blk1 **Seq. No.:** 19 **A/S Pos:** 405

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:35:47

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	224,746.5	97.15	0.499	%			%	0.51 %
Y 324.227A	1,342,966.0	96.52	0.092	%			%	0.10 %
Ag 328.068	93.3	0.0005	0.00075	mg/L	0.0005	0.00075	mg/L	165.15 %
Al 308.215	31.3	0.024	0.0680	mg/L	0.024	0.0680	mg/L	286.09 %
As 188.979	-4.4	-0.0020	0.00261	mg/L	-0.0020	0.00261	mg/L	130.60 %
Ba 233.527	-19.7	-0.0002	0.00008	mg/L	-0.0002	0.00008	mg/L	46.56 %
Be 313.107	-35.9	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	388.04 %
B 208.959	114.8	0.0111	0.00106	mg/L	0.0111	0.00106	mg/L	9.59 %
Ca 317.933	1,304.5	0.0445	0.00222	mg/L	0.0445	0.00222	mg/L	5.00 %
Cd 228.802	16.4	0.0004	0.00009	mg/L	0.0004	0.00009	mg/L	23.29 %
Co 228.616	-23.1	-0.0005	0.00005	mg/L	-0.0005	0.00005	mg/L	11.50 %
Cr 267.716	27.4	0.0002	0.00066	mg/L	0.0002	0.00066	mg/L	305.18 %
Cu 324.754	218.7	0.0008	0.00021	mg/L	0.0008	0.00021	mg/L	24.75 %
Fe 273.955	152.3	0.0060	0.00051	mg/L	0.0060	0.00051	mg/L	8.43 %
K 766.491R	273.6	0.117	0.0374	mg/L	0.117	0.0374	mg/L	32.00 %
Li 670.781R	-176.0	-0.003	0.0015	mg/L	-0.003	0.0015	mg/L	58.47 %
Mg 279.079R	54.8	0.023	0.0223	mg/L	0.023	0.0223	mg/L	98.76 %
Mn 257.610	87.2	0.0001	0.00003	mg/L	0.0001	0.00003	mg/L	21.33 %
Mo 202.030	16.0	0.0009	0.00054	mg/L	0.0009	0.00054	mg/L	62.35 %
Na 589.592R	185.4	0.018	0.0038	mg/L	0.018	0.0038	mg/L	21.01 %
Ni 231.604	32.9	0.001	0.0001	mg/L	0.001	0.0001	mg/L	20.54 %
Pb 220.353	14.3	0.0013	0.00107	mg/L	0.0013	0.00107	mg/L	80.93 %
Sb 206.833	3.0	0.0012	0.00328	mg/L	0.0012	0.00328	mg/L	282.87 %
Se 196.026	1.7	0.0006	0.00045	mg/L	0.0006	0.00045	mg/L	78.31 %
Sn 189.933	104.9	0.0097	0.00083	mg/L	0.0097	0.00083	mg/L	8.51 %
Sr 421.539R	310.2	0.0004	0.00033	mg/L	0.0004	0.00033	mg/L	80.59 %
Ti 337.280	1.7	0.0000	0.00007	mg/L	0.0000	0.00007	mg/L	2,560.09 %
Tl 190.800	-6.0	-0.0017	0.00254	mg/L	-0.0017	0.00254	mg/L	151.80 %
V 292.402	33.4	0.0002	0.00005	mg/L	0.0002	0.00005	mg/L	30.39 %
Zn 206.191	168.7	0.0029	0.00011	mg/L	0.0029	0.00011	mg/L	3.67 %

Mean Data

ID: 3F24008-bs1 **Seq. No.:** 20 **A/S Pos:** 406

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:37:42

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	222,762.5	96.29	0.266	%			%	0.28 %
Y 324.227A	1,326,470.9	95.34	0.584	%			%	0.61 %
Ag 328.068	19,424.3	0.0983	0.00031	mg/L	0.0983	0.00031	mg/L	0.32 %
Al 308.215	6,598.3	5.00	0.024	mg/L	5.00	0.024	mg/L	0.49 %
As 188.979	1,036.0	0.4715	0.00305	mg/L	0.4715	0.00305	mg/L	0.65 %
Ba 233.527	58,037.6	0.4787	0.00022	mg/L	0.4787	0.00022	mg/L	0.05 %
Be 313.107	219,260.6	0.0484	0.00003	mg/L	0.0484	0.00003	mg/L	0.07 %
B 208.959	24,423.7	2.333	0.0091	mg/L	2.333	0.0091	mg/L	0.39 %
Ca 317.933	144,648.0	4.934	0.0173	mg/L	4.934	0.0173	mg/L	0.35 %
Cd 228.802	2,069.9	0.0488	0.00009	mg/L	0.0488	0.00009	mg/L	0.19 %
Co 228.616	24,318.5	0.4895	0.00195	mg/L	0.4895	0.00195	mg/L	0.40 %
Cr 267.716	61,627.9	0.4898	0.00075	mg/L	0.4898	0.00075	mg/L	0.15 %
Cu 324.754	129,233.7	0.4949	0.00097	mg/L	0.4949	0.00097	mg/L	0.20 %
Fe 273.955	61,399.6	2.436	0.0047	mg/L	2.436	0.0047	mg/L	0.19 %
K 766.491R	55,573.2	23.8	0.06	mg/L	23.8	0.06	mg/L	0.24 %
Li 670.781R	34,082.9	0.487	0.0013	mg/L	0.487	0.0013	mg/L	0.27 %
Mg 279.079R	11,663.9	4.81	0.023	mg/L	4.81	0.023	mg/L	0.48 %

Mn 257.610	354,256.0	0.4836	0.00041	mg/L	0.4836	0.00041	mg/L	0.08 %
Mo 202.030	8,960.0	0.4811	0.00202	mg/L	0.4811	0.00202	mg/L	0.42 %
Na 589.592R	243,973.2	24.1	0.01	mg/L	24.1	0.01	mg/L	0.03 %
Ni 231.604	27,045.4	0.489	0.0021	mg/L	0.489	0.0021	mg/L	0.43 %
Pb 220.353	5,305.3	0.4878	0.00260	mg/L	0.4878	0.00260	mg/L	0.53 %
Sb 206.833	1,341.0	0.4706	0.00689	mg/L	0.4706	0.00689	mg/L	1.46 %
Se 196.026	1,419.4	0.4708	0.00254	mg/L	0.4708	0.00254	mg/L	0.54 %
Sn 189.933	5,257.7	0.4876	0.00200	mg/L	0.4876	0.00200	mg/L	0.41 %
Sr 421.539R	370,803.2	0.4852	0.00057	mg/L	0.4852	0.00057	mg/L	0.12 %
Ti 337.280	153,082.9	0.2468	0.00029	mg/L	0.2468	0.00029	mg/L	0.12 %
Tl 190.800	1,765.6	0.4952	0.00163	mg/L	0.4952	0.00163	mg/L	0.33 %
V 292.402	109,749.0	0.5015	0.00080	mg/L	0.5015	0.00080	mg/L	0.16 %
Zn 206.191	29,096.2	0.5036	0.00219	mg/L	0.5036	0.00219	mg/L	0.44 %

Mean Data

ID: 3F24008-bsd1 **Seq. No.:** 21 **A/S Pos:** 407

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:39:37

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,621.5	97.53	0.657	%			%	0.67 %
Y 324.227A	1,326,634.6	95.35	0.411	%			%	0.43 %
Ag 328.068	19,332.5	0.0979	0.00069	mg/L	0.0979	0.00069	mg/L	0.71 %
Al 308.215	6,476.8	4.91	0.083	mg/L	4.91	0.083	mg/L	1.70 %
As 188.979	1,034.1	0.4706	0.00129	mg/L	0.4706	0.00129	mg/L	0.27 %
Ba 233.527	57,717.0	0.4761	0.00123	mg/L	0.4761	0.00123	mg/L	0.26 %
Be 313.107	218,217.3	0.0481	0.00003	mg/L	0.0481	0.00003	mg/L	0.07 %
B 208.959	24,332.3	2.325	0.0222	mg/L	2.325	0.0222	mg/L	0.95 %
Ca 317.933	141,954.1	4.842	0.0552	mg/L	4.842	0.0552	mg/L	1.14 %
Cd 228.802	2,087.9	0.0492	0.00045	mg/L	0.0492	0.00045	mg/L	0.92 %
Co 228.616	24,338.3	0.4899	0.00466	mg/L	0.4899	0.00466	mg/L	0.95 %
Cr 267.716	61,423.4	0.4882	0.00026	mg/L	0.4882	0.00026	mg/L	0.05 %
Cu 324.754	128,588.9	0.4924	0.00117	mg/L	0.4924	0.00117	mg/L	0.24 %
Fe 273.955	61,147.7	2.426	0.0023	mg/L	2.426	0.0023	mg/L	0.10 %
K 766.491R	55,416.4	23.7	0.08	mg/L	23.7	0.08	mg/L	0.33 %
Li 670.781R	34,016.0	0.486	0.0019	mg/L	0.486	0.0019	mg/L	0.38 %
Mg 279.079R	11,388.1	4.70	0.005	mg/L	4.70	0.005	mg/L	0.11 %
Mn 257.610	352,216.8	0.4809	0.00093	mg/L	0.4809	0.00093	mg/L	0.19 %
Mo 202.030	8,956.7	0.4809	0.00500	mg/L	0.4809	0.00500	mg/L	1.04 %
Na 589.592R	243,467.2	24.1	0.04	mg/L	24.1	0.04	mg/L	0.16 %
Ni 231.604	27,007.9	0.488	0.0046	mg/L	0.488	0.0046	mg/L	0.95 %
Pb 220.353	5,311.0	0.4882	0.00327	mg/L	0.4882	0.00327	mg/L	0.67 %
Sb 206.833	1,336.3	0.4689	0.00610	mg/L	0.4689	0.00610	mg/L	1.30 %
Se 196.026	1,417.8	0.4703	0.00578	mg/L	0.4703	0.00578	mg/L	1.23 %
Sn 189.933	5,256.2	0.4875	0.00499	mg/L	0.4875	0.00499	mg/L	1.02 %
Sr 421.539R	369,608.1	0.4837	0.00057	mg/L	0.4837	0.00057	mg/L	0.12 %
Ti 337.280	152,588.6	0.2460	0.00025	mg/L	0.2460	0.00025	mg/L	0.10 %
Tl 190.800	1,742.1	0.4885	0.00475	mg/L	0.4885	0.00475	mg/L	0.97 %
V 292.402	108,969.8	0.4979	0.00029	mg/L	0.4979	0.00029	mg/L	0.06 %
Zn 206.191	29,079.7	0.5033	0.00528	mg/L	0.5033	0.00528	mg/L	1.05 %

Mean Data

ID: b302882-01 **Seq. No.:** 22 **A/S Pos:** 408

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:41:28

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	234,568.9	101.4	0.34	%			%	0.34 %
Y 324.227A	1,404,157.7	100.9	0.20	%			%	0.20 %
Ag 328.068	-3,270.6	-0.0026	0.00067	mg/L	-0.0026	0.00067	mg/L	25.84 %
Al 308.215	487,473.3	371	0.4	mg/L	371	0.4	mg/L	0.11 %
As 188.979	-178.6	0.0301	0.00178	mg/L	0.0301	0.00178	mg/L	5.89 %
Ba 233.527	189,696.2	1.555	0.0035	mg/L	1.555	0.0035	mg/L	0.23 %

Be 313.107	37,742.6	0.0069	0.00001	mg/L	0.0069	0.00001	mg/L	0.10 %
B 208.959	708.5	0.0261	0.00144	mg/L	0.0261	0.00144	mg/L	5.50 %
Ca 317.933	554,903.7	18.93	0.018	mg/L	18.93	0.018	mg/L	0.10 %
Cd 228.802	-84.1	-0.0019	0.00029	mg/L	-0.0019	0.00029	mg/L	15.21 %
Co 228.616	3,394.6	0.0538	0.00045	mg/L	0.0538	0.00045	mg/L	0.84 %
Cr 267.716	56,149.7	0.4459	0.00192	mg/L	0.4459	0.00192	mg/L	0.43 %
Cu 324.754	24,544.5	0.0937	0.00041	mg/L	0.0937	0.00041	mg/L	0.43 %
Fe 273.955	4,114,440.0	163.4	0.22	mg/L	163.4	0.22	mg/L	0.13 %
K 766.491R	20,735.5	8.87	0.031	mg/L	8.87	0.031	mg/L	0.35 %
Li 670.781R	10,394.4	0.149	0.0004	mg/L	0.149	0.0004	mg/L	0.24 %
Mg 279.079R	73,205.4	30.2	0.03	mg/L	30.2	0.03	mg/L	0.10 %
Mn 257.610	971,692.8	1.327	0.0018	mg/L	1.327	0.0018	mg/L	0.14 %
Mo 202.030	-149.0	0.0085	0.00042	mg/L	0.0085	0.00042	mg/L	5.01 %
Na 589.592R	8,796.4	0.869	0.0052	mg/L	0.869	0.0052	mg/L	0.60 %
Ni 231.604	10,807.6	0.195	0.0007	mg/L	0.195	0.0007	mg/L	0.35 %
Pb 220.353	18.0	0.1419	0.00235	mg/L	0.1419	0.00235	mg/L	1.65 %
Sb 206.833	415.9	-0.0170	0.00728	mg/L	-0.0170	0.00728	mg/L	42.91 %
Se 196.026	-5.5	-0.0126	0.00122	mg/L	-0.0126	0.00122	mg/L	9.68 %
Sn 189.933	126.2	0.0110	0.00067	mg/L	0.0110	0.00067	mg/L	6.13 %
Sr 421.539R	268,451.5	0.3513	0.00056	mg/L	0.3513	0.00056	mg/L	0.16 %
Ti 337.280	2,753,825.8	4.439	0.0067	mg/L	4.439	0.0067	mg/L	0.15 %
Tl 190.800	-302.0	0.0150	0.00235	mg/L	0.0150	0.00235	mg/L	15.65 %
V 292.402	83,411.0	0.3693	0.00104	mg/L	0.3693	0.00104	mg/L	0.28 %
Zn 206.191	17,676.8	0.3143	0.00183	mg/L	0.3143	0.00183	mg/L	0.58 %

Mean Data

ID: b302882-02 **Seq. No.:** 23 **A/S Pos:** 409

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:43:24

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	233,734.5	101.0	0.62	%			%	0.62 %
Y 324.227A	1,410,343.7	101.4	1.18	%			%	1.16 %
Ag 328.068	-2,035.0	-0.0012	0.00009	mg/L	-0.0012	0.00009	mg/L	7.95 %
Al 308.215	241,703.3	184	0.4	mg/L	184	0.4	mg/L	0.19 %
As 188.979	-69.2	0.0385	0.00191	mg/L	0.0385	0.00191	mg/L	4.97 %
Ba 233.527	68,919.9	0.5625	0.00425	mg/L	0.5625	0.00425	mg/L	0.76 %
Be 313.107	30,117.0	0.0042	0.00003	mg/L	0.0042	0.00003	mg/L	0.61 %
B 208.959	418.6	0.0193	0.00140	mg/L	0.0193	0.00140	mg/L	7.25 %
Ca 317.933	210,464.1	7.179	0.0207	mg/L	7.179	0.0207	mg/L	0.29 %
Cd 228.802	-37.3	-0.0009	0.00025	mg/L	-0.0009	0.00025	mg/L	29.55 %
Co 228.616	2,990.2	0.0391	0.00079	mg/L	0.0391	0.00079	mg/L	2.03 %
Cr 267.716	32,860.6	0.2609	0.00236	mg/L	0.2609	0.00236	mg/L	0.90 %
Cu 324.754	20,912.3	0.0833	0.00109	mg/L	0.0833	0.00109	mg/L	1.30 %
Fe 273.955	2,573,339.6	102.2	0.14	mg/L	102.2	0.14	mg/L	0.14 %
K 766.491R	21,115.1	9.03	0.079	mg/L	9.03	0.079	mg/L	0.88 %
Li 670.781R	7,194.9	0.103	0.0007	mg/L	0.103	0.0007	mg/L	0.72 %
Mg 279.079R	71,696.1	29.6	0.06	mg/L	29.6	0.06	mg/L	0.22 %
Mn 257.610	604,065.9	0.8247	0.00713	mg/L	0.8247	0.00713	mg/L	0.86 %
Mo 202.030	-36.5	0.0066	0.00093	mg/L	0.0066	0.00093	mg/L	14.06 %
Na 589.592R	9,689.0	0.957	0.0016	mg/L	0.957	0.0016	mg/L	0.17 %
Ni 231.604	7,147.5	0.129	0.0019	mg/L	0.129	0.0019	mg/L	1.46 %
Pb 220.353	-124.3	0.0581	0.00117	mg/L	0.0581	0.00117	mg/L	2.01 %
Sb 206.833	182.7	-0.0215	0.00278	mg/L	-0.0215	0.00278	mg/L	12.92 %
Se 196.026	-40.1	-0.0116	0.00147	mg/L	-0.0116	0.00147	mg/L	12.69 %
Sn 189.933	22.2	0.0018	0.00056	mg/L	0.0018	0.00056	mg/L	31.27 %
Sr 421.539R	84,083.4	0.1100	0.00028	mg/L	0.1100	0.00028	mg/L	0.25 %
Ti 337.280	5,118,235.9	8.251	0.0126	mg/L	8.251	0.0126	mg/L	0.15 %
Tl 190.800	-164.5	0.0061	0.00269	mg/L	0.0061	0.00269	mg/L	44.18 %
V 292.402	61,277.6	0.2661	0.00297	mg/L	0.2661	0.00297	mg/L	1.12 %
Zn 206.191	13,911.2	0.2444	0.00250	mg/L	0.2444	0.00250	mg/L	1.02 %

Mean Data

ID: b302882-03 **Seq. No.:** 24 **A/S Pos:** 410

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:45:20

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	228,102.7	98.60	0.545	%			%	0.55 %
Y 324.227A	1,371,650.5	98.58	0.579	%			%	0.59 %
Ag 328.068	-1,664.9	-0.0013	0.00052	mg/L	-0.0013	0.00052	mg/L	39.16 %
Al 308.215	153,256.6	117	0.3	mg/L	117	0.3	mg/L	0.23 %
As 188.979	-40.0	0.0284	0.00485	mg/L	0.0284	0.00485	mg/L	17.05 %
Ba 233.527	70,575.4	0.5770	0.00127	mg/L	0.5770	0.00127	mg/L	0.22 %
Be 313.107	19,701.1	0.0038	0.00001	mg/L	0.0038	0.00001	mg/L	0.34 %
B 208.959	318.6	0.0174	0.00033	mg/L	0.0174	0.00033	mg/L	1.88 %
Ca 317.933	293,218.3	10.00	0.029	mg/L	10.00	0.029	mg/L	0.29 %
Cd 228.802	-18.7	-0.0004	0.00014	mg/L	-0.0004	0.00014	mg/L	32.72 %
Co 228.616	1,676.9	0.0277	0.00013	mg/L	0.0277	0.00013	mg/L	0.45 %
Cr 267.716	22,039.5	0.1745	0.00045	mg/L	0.1745	0.00045	mg/L	0.26 %
Cu 324.754	13,035.6	0.0491	0.00029	mg/L	0.0491	0.00029	mg/L	0.60 %
Fe 273.955	2,175,492.2	86.41	0.107	mg/L	86.41	0.107	mg/L	0.12 %
K 766.491R	7,106.1	3.04	0.045	mg/L	3.04	0.045	mg/L	1.48 %
Li 670.781R	4,570.6	0.065	0.0006	mg/L	0.065	0.0006	mg/L	0.95 %
Mg 279.079R	28,928.9	11.9	0.02	mg/L	11.9	0.02	mg/L	0.19 %
Mn 257.610	1,333,112.3	1.820	0.0023	mg/L	1.820	0.0023	mg/L	0.13 %
Mo 202.030	-8.0	0.0055	0.00053	mg/L	0.0055	0.00053	mg/L	9.62 %
Na 589.592R	8,863.2	0.876	0.0086	mg/L	0.876	0.0086	mg/L	0.98 %
Ni 231.604	3,788.7	0.068	0.0010	mg/L	0.068	0.0010	mg/L	1.53 %
Pb 220.353	724.5	0.1104	0.00135	mg/L	0.1104	0.00135	mg/L	1.22 %
Sb 206.833	140.4	-0.0096	0.00331	mg/L	-0.0096	0.00331	mg/L	34.43 %
Se 196.026	-36.0	-0.0054	0.00221	mg/L	-0.0054	0.00221	mg/L	40.97 %
Sn 189.933	105.9	0.0095	0.00116	mg/L	0.0095	0.00116	mg/L	12.30 %
Sr 421.539R	101,515.3	0.1328	0.00019	mg/L	0.1328	0.00019	mg/L	0.14 %
Ti 337.280	947,533.3	1.527	0.0024	mg/L	1.527	0.0024	mg/L	0.16 %
Tl 190.800	-128.4	0.0026	0.00311	mg/L	0.0026	0.00311	mg/L	118.24 %
V 292.402	42,465.0	0.1885	0.00032	mg/L	0.1885	0.00032	mg/L	0.17 %
Zn 206.191	9,810.6	0.1718	0.00131	mg/L	0.1718	0.00131	mg/L	0.76 %

Mean Data

ID: CVS **Seq. No.:** 25 **A/S Pos:** 3

2013/06/27 10:48:30 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:47:18

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,939.5	97.67	0.266	%				0.27 %
Y 324.227A	1,350,013.7	97.03	0.649	%				0.67 %
Ag 328.068	101,181.7	0.4953	0.00053	mg/L	0.4953			0.11 %
2013/06/27 10:48:29 QC value within limits for Ag 328.068 Recovery = 99.05%								
Al 308.215	6,419.4	4.87	0.040	mg/L	4.87			0.82 %
2013/06/27 10:48:29 QC value within limits for Al 308.215 Recovery = 97.38%								
As 188.979	1,033.9	0.4705	0.00476	mg/L	0.4705			1.01 %
2013/06/27 10:48:29 QC value within limits for As 188.979 Recovery = 94.11%								
Ba 233.527	58,352.0	0.4813	0.00061	mg/L	0.4813			0.13 %
2013/06/27 10:48:29 QC value within limits for Ba 233.527 Recovery = 96.27%								
Be 313.107	218,905.0	0.0483	0.00012	mg/L	0.0483			0.26 %
2013/06/27 10:48:29 QC value within limits for Be 313.107 Recovery = 96.56%								
B 208.959	24,577.1	2.348	0.0175	mg/L	2.348			0.74 %
2013/06/27 10:48:29 QC value within limits for B 208.959 Recovery = 93.93%								
Ca 317.933	140,508.8	4.793	0.0424	mg/L	4.793			0.88 %
2013/06/27 10:48:29 QC value within limits for Ca 317.933 Recovery = 95.86%								
Cd 228.802	2,087.4	0.0492	0.00022	mg/L	0.0492			0.45 %
2013/06/27 10:48:29 QC value within limits for Cd 228.802 Recovery = 98.32%								
Co 228.616	23,949.5	0.4821	0.00403	mg/L	0.4821			0.84 %

2013/06/27 10:48:29 QC value within limits for Co 228.616 Recovery = 96.41%

Cr 267.716	61,608.8	0.4896	0.00076	mg/L	0.4896	0.15 %

2013/06/27 10:48:29 QC value within limits for Cr 267.716 Recovery = 97.93%

Cu 324.754	128,327.4	0.4914	0.00069	mg/L	0.4914	0.14 %

2013/06/27 10:48:29 QC value within limits for Cu 324.754 Recovery = 98.27%

Fe 273.955	61,367.0	2.434	0.0024	mg/L	2.434	0.10 %

2013/06/27 10:48:29 QC value within limits for Fe 273.955 Recovery = 97.38%

K 766.491R	55,426.6	23.7	0.03	mg/L	23.7	0.12 %

2013/06/27 10:48:29 QC value within limits for K 766.491R Recovery = 94.79%

Li 670.781R	33,484.6	0.479	0.0008	mg/L	0.479	0.17 %

2013/06/27 10:48:29 QC value within limits for Li 670.781R Recovery = 95.74%

Mg 279.079R	11,490.4	4.74	0.045	mg/L	4.74	0.95 %

2013/06/27 10:48:29 QC value within limits for Mg 279.079R Recovery = 94.77%

Mn 257.610	356,303.5	0.4864	0.00118	mg/L	0.4864	0.24 %

2013/06/27 10:48:29 QC value within limits for Mn 257.610 Recovery = 97.29%

Mo 202.030	8,979.2	0.4821	0.00328	mg/L	0.4821	0.68 %

2013/06/27 10:48:29 QC value within limits for Mo 202.030 Recovery = 96.42%

Na 589.592R	244,344.4	24.1	0.04	mg/L	24.1	0.16 %

2013/06/27 10:48:29 QC value within limits for Na 589.592R Recovery = 96.56%

Ni 231.604	26,525.4	0.479	0.0042	mg/L	0.479	0.87 %

2013/06/27 10:48:29 QC value within limits for Ni 231.604 Recovery = 95.83%

Pb 220.353	5,226.9	0.4805	0.00321	mg/L	0.4805	0.67 %

2013/06/27 10:48:29 QC value within limits for Pb 220.353 Recovery = 96.11%

Sb 206.833	1,317.0	0.4618	0.00972	mg/L	0.4618	2.10 %

2013/06/27 10:48:29 QC value within limits for Sb 206.833 Recovery = 92.37%

Se 196.026	1,397.6	0.4636	0.00965	mg/L	0.4636	2.08 %

2013/06/27 10:48:29 QC value within limits for Se 196.026 Recovery = 92.72%

Sn 189.933	5,087.0	0.4718	0.00493	mg/L	0.4718	1.04 %

2013/06/27 10:48:29 QC value within limits for Sn 189.933 Recovery = 94.36%

Sr 421.539R	372,711.4	0.4877	0.00068	mg/L	0.4877	0.14 %

2013/06/27 10:48:29 QC value within limits for Sr 421.539R Recovery = 97.55%

Ti 337.280	153,483.7	0.2474	0.00033	mg/L	0.2474	0.13 %

2013/06/27 10:48:29 QC value within limits for Ti 337.280 Recovery = 98.97%

Tl 190.800	1,745.9	0.4897	0.00196	mg/L	0.4897	0.40 %

2013/06/27 10:48:29 QC value within limits for Tl 190.800 Recovery = 97.93%

V 292.402	108,554.8	0.4961	0.00098	mg/L	0.4961	0.20 %

2013/06/27 10:48:29 QC value within limits for V 292.402 Recovery = 99.21%

Zn 206.191	27,020.7	0.4679	0.00377	mg/L	0.4679	0.81 %

2013/06/27 10:48:29 QC value within limits for Zn 206.191 Recovery = 93.57%

Mean Data

ID: BLK **Seq. No.:** 26 **A/S Pos:** 1

2013/06/27 10:50:26 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:49:14

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	227,052.9	98.15	0.615	%				0.63 %
Y 324.227A	1,366,727.3	98.23	0.791	%				0.81 %
Ag 328.068	308.6	0.0015	0.00046	mg/L	0.0015			30.71 %

2013/06/27 10:50:24 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	-5.4	-0.004	0.0437	mg/L	-0.004	1,046.62 %

2013/06/27 10:50:24 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	4.1	0.0019	0.00089	mg/L	0.0019	47.91 %

2013/06/27 10:50:24 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-47.0	-0.0004	0.00011	mg/L	-0.0004	28.31 %

2013/06/27 10:50:24 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	280.9	0.0001	0.00002	mg/L	0.0001	29.12 %

2013/06/27 10:50:24 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	129.9	0.0125	0.00209	mg/L	0.0125	16.77 %

2013/06/27 10:50:24 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	57.2	0.0019	0.00310	mg/L	0.0019	159.24 %

2013/06/27 10:50:24 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	20.2	0.0005	0.00018	mg/L	0.0005	38.90 %
2013/06/27 10:50:24	QC value within limits for Cd 228.802 Recovery = Not calculated					
Co 228.616	-34.9	-0.0007	0.00013	mg/L	-0.0007	18.57 %
2013/06/27 10:50:24	QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716	-2.2	0.0000	0.00009	mg/L	0.0000	499.65 %
2013/06/27 10:50:24	QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.754	-85.8	-0.0003	0.00027	mg/L	-0.0003	81.36 %
2013/06/27 10:50:24	QC value within limits for Cu 324.754 Recovery = Not calculated					
Fe 273.955	155.3	0.0062	0.00079	mg/L	0.0062	12.87 %
2013/06/27 10:50:24	QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.491R	322.5	0.138	0.0351	mg/L	0.138	25.48 %
2013/06/27 10:50:24	QC value within limits for K 766.491R Recovery = Not calculated					
Li 670.781R	-138.0	-0.002	0.0012	mg/L	-0.002	58.78 %
2013/06/27 10:50:24	QC value within limits for Li 670.781R Recovery = Not calculated					
Mg 279.079R	36.7	0.015	0.0174	mg/L	0.015	115.10 %
2013/06/27 10:50:24	QC value within limits for Mg 279.079R Recovery = Not calculated					
Mn 257.610	17.2	0.0000	0.00001	mg/L	0.0000	34.32 %
2013/06/27 10:50:24	QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.030	35.2	0.0019	0.00063	mg/L	0.0019	33.18 %
2013/06/27 10:50:24	QC value within limits for Mo 202.030 Recovery = Not calculated					
Na 589.592R	178.2	0.018	0.0038	mg/L	0.018	21.80 %
2013/06/27 10:50:24	QC value within limits for Na 589.592R Recovery = Not calculated					
Ni 231.604	30.9	0.001	0.0004	mg/L	0.001	63.87 %
2013/06/27 10:50:24	QC value within limits for Ni 231.604 Recovery = Not calculated					
Pb 220.353	45.9	0.0042	0.00123	mg/L	0.0042	29.39 %
2013/06/27 10:50:24	QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.833	-14.5	-0.0052	0.00174	mg/L	-0.0052	33.60 %
2013/06/27 10:50:24	QC value within limits for Sb 206.833 Recovery = Not calculated					
Se 196.026	-6.0	-0.0020	0.00041	mg/L	-0.0020	20.33 %
2013/06/27 10:50:24	QC value within limits for Se 196.026 Recovery = Not calculated					
Sn 189.933	8.5	0.0008	0.00095	mg/L	0.0008	120.51 %
2013/06/27 10:50:24	QC value within limits for Sn 189.933 Recovery = Not calculated					
Sr 421.539R	91.7	0.0001	0.00016	mg/L	0.0001	131.81 %
2013/06/27 10:50:24	QC value within limits for Sr 421.539R Recovery = Not calculated					
Ti 337.280	230.0	0.0004	0.00008	mg/L	0.0004	21.75 %
2013/06/27 10:50:24	QC value within limits for Ti 337.280 Recovery = Not calculated					
Tl 190.800	24.1	0.0068	0.00067	mg/L	0.0068	9.91 %
2013/06/27 10:50:24	QC value within limits for Tl 190.800 Recovery = Not calculated					
V 292.402	123.8	0.0006	0.00034	mg/L	0.0006	59.62 %
2013/06/27 10:50:24	QC value within limits for V 292.402 Recovery = Not calculated					
Zn 206.191	159.2	0.0027	0.00027	mg/L	0.0027	9.69 %
2013/06/27 10:50:24	QC value within limits for Zn 206.191 Recovery = Not calculated					

Mean Data

ID: b302882-04 **Seq. No.:** 27 **A/S Pos:** 411

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:51:08

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,097.4	97.74	0.829	%			%	0.85 %
Y 324.227A	1,371,479.1	98.57	1.044	%			%	1.06 %
Ag 328.068	-2,347.9	-0.0025	0.00008	mg/L	-0.0025	0.00008	mg/L	3.21 %
Al 308.215	288,538.1	220	0.3	mg/L	220	0.3	mg/L	0.12 %
As 188.979	-94.5	0.0299	0.00115	mg/L	0.0299	0.00115	mg/L	3.83 %
Ba 233.527	74,026.5	0.6044	0.00194	mg/L	0.6044	0.00194	mg/L	0.32 %
Be 313.107	30,596.9	0.0050	0.00003	mg/L	0.0050	0.00003	mg/L	0.66 %
B 208.959	435.4	0.0169	0.00098	mg/L	0.0169	0.00098	mg/L	5.81 %
Ca 317.933	177,215.5	6.045	0.0094	mg/L	6.045	0.0094	mg/L	0.15 %
Cd 228.802	-48.3	-0.0011	0.00018	mg/L	-0.0011	0.00018	mg/L	16.09 %
Co 228.616	2,688.0	0.0380	0.00053	mg/L	0.0380	0.00053	mg/L	1.41 %
Cr 267.716	33,730.1	0.2679	0.00081	mg/L	0.2679	0.00081	mg/L	0.30 %
Cu 324.754	15,813.0	0.0621	0.00036	mg/L	0.0621	0.00036	mg/L	0.58 %

Fe 273.955	2,660,999.2	105.7	0.24	mg/L	105.7	0.24	mg/L	0.23	%
K 766.491R	16,227.9	6.94	0.053	mg/L	6.94	0.053	mg/L	0.77	%
Li 670.781R	6,537.2	0.093	0.0008	mg/L	0.093	0.0008	mg/L	0.89	%
Mg 279.079R	57,163.7	23.6	0.06	mg/L	23.6	0.06	mg/L	0.24	%
Mn 257.610	586,760.7	0.8011	0.00184	mg/L	0.8011	0.00184	mg/L	0.23	%
Mo 202.030	-65.7	0.0064	0.00037	mg/L	0.0064	0.00037	mg/L	5.68	%
Na 589.592R	15,517.2	1.53	0.016	mg/L	1.53	0.016	mg/L	1.07	%
Ni 231.604	6,490.3	0.117	0.0013	mg/L	0.117	0.0013	mg/L	1.07	%
Pb 220.353	-93.8	0.0744	0.00131	mg/L	0.0744	0.00131	mg/L	1.76	%
Sb 206.833	236.9	-0.0148	0.00607	mg/L	-0.0148	0.00607	mg/L	40.97	%
Se 196.026	-20.5	-0.0100	0.00095	mg/L	-0.0100	0.00095	mg/L	9.46	%
Sn 189.933	57.0	0.0051	0.00107	mg/L	0.0051	0.00107	mg/L	21.22	%
Sr 421.539R	91,869.1	0.1202	0.00014	mg/L	0.1202	0.00014	mg/L	0.11	%
Ti 337.280	3,650,256.4	5.884	0.0056	mg/L	5.884	0.0056	mg/L	0.10	%
Tl 190.800	-192.6	0.0059	0.00459	mg/L	0.0059	0.00459	mg/L	78.28	%
V 292.402	60,525.4	0.2652	0.00065	mg/L	0.2652	0.00065	mg/L	0.25	%
Zn 206.191	13,700.6	0.2417	0.00262	mg/L	0.2417	0.00262	mg/L	1.08	%

Mean Data

ID: b302882-05 **Seq. No.:** 28 **A/S Pos:** 412

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:52:58

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	242,124.0	104.7	0.70	%			%	0.67	%
Y 324.227A	1,456,084.5	104.7	0.68	%			%	0.65	%
Ag 328.068	-1,958.0	-0.0015	0.00020	mg/L	-0.0015	0.00020	mg/L	13.56	%
Al 308.215	257,306.0	196	0.1	mg/L	196	0.1	mg/L	0.05	%
As 188.979	-68.0	0.0345	0.00165	mg/L	0.0345	0.00165	mg/L	4.80	%
Ba 233.527	115,477.3	0.9466	0.00242	mg/L	0.9466	0.00242	mg/L	0.26	%
Be 313.107	33,572.9	0.0062	0.00001	mg/L	0.0062	0.00001	mg/L	0.13	%
B 208.959	358.3	0.0121	0.00179	mg/L	0.0121	0.00179	mg/L	14.76	%
Ca 317.933	253,855.0	8.659	0.0048	mg/L	8.659	0.0048	mg/L	0.06	%
Cd 228.802	-18.7	-0.0004	0.00007	mg/L	-0.0004	0.00007	mg/L	17.54	%
Co 228.616	2,710.9	0.0429	0.00050	mg/L	0.0429	0.00050	mg/L	1.16	%
Cr 267.716	36,858.2	0.2919	0.00046	mg/L	0.2919	0.00046	mg/L	0.16	%
Cu 324.754	21,086.0	0.0816	0.00051	mg/L	0.0816	0.00051	mg/L	0.62	%
Fe 273.955	2,505,979.3	99.53	0.159	mg/L	99.53	0.159	mg/L	0.16	%
K 766.491R	20,376.8	8.71	0.040	mg/L	8.71	0.040	mg/L	0.45	%
Li 670.781R	6,879.1	0.098	0.0010	mg/L	0.098	0.0010	mg/L	1.00	%
Mg 279.079R	59,273.3	24.4	0.02	mg/L	24.4	0.02	mg/L	0.07	%
Mn 257.610	2,085,315.6	2.847	0.0047	mg/L	2.847	0.0047	mg/L	0.16	%
Mo 202.030	-40.3	0.0072	0.00020	mg/L	0.0072	0.00020	mg/L	2.86	%
Na 589.592R	8,468.2	0.837	0.0014	mg/L	0.837	0.0014	mg/L	0.17	%
Ni 231.604	6,994.8	0.126	0.0012	mg/L	0.126	0.0012	mg/L	0.92	%
Pb 220.353	283.4	0.0999	0.00085	mg/L	0.0999	0.00085	mg/L	0.85	%
Sb 206.833	193.9	-0.0218	0.00374	mg/L	-0.0218	0.00374	mg/L	17.14	%
Se 196.026	-41.2	-0.0178	0.00323	mg/L	-0.0178	0.00323	mg/L	18.15	%
Sn 189.933	61.9	0.0054	0.00154	mg/L	0.0054	0.00154	mg/L	28.37	%
Sr 421.539R	132,342.8	0.1732	0.00021	mg/L	0.1732	0.00021	mg/L	0.12	%
Ti 337.280	2,499,469.6	4.029	0.0057	mg/L	4.029	0.0057	mg/L	0.14	%
Tl 190.800	-184.6	0.0074	0.00077	mg/L	0.0074	0.00077	mg/L	10.50	%
V 292.402	58,152.1	0.2568	0.00037	mg/L	0.2568	0.00037	mg/L	0.14	%
Zn 206.191	14,886.7	0.2617	0.00170	mg/L	0.2617	0.00170	mg/L	0.65	%

Mean Data

ID: b302882-06 **Seq. No.:** 29 **A/S Pos:** 413

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:54:48

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	238,122.4	102.9	1.00	%			%	0.97	%
Y 324.227A	1,442,443.8	103.7	0.51	%			%	0.49	%

Ag 328.068	-2,319.6	-0.0011	0.00031	mg/L	-0.0011	0.00031	mg/L	28.27 %
Al 308.215	335,682.8	255	0.4	mg/L	255	0.4	mg/L	0.17 %
As 188.979	-88.2	0.0443	0.00187	mg/L	0.0443	0.00187	mg/L	4.21 %
Ba 233.527	121,799.0	0.9974	0.00361	mg/L	0.9974	0.00361	mg/L	0.36 %
Be 313.107	37,145.8	0.0061	0.00002	mg/L	0.0061	0.00002	mg/L	0.31 %
B 208.959	450.8	0.0143	0.00116	mg/L	0.0143	0.00116	mg/L	8.07 %
Ca 317.933	250,105.8	8.531	0.0078	mg/L	8.531	0.0078	mg/L	0.09 %
Cd 228.802	-37.6	-0.0009	0.00019	mg/L	-0.0009	0.00019	mg/L	22.69 %
Co 228.616	3,435.0	0.0507	0.00084	mg/L	0.0507	0.00084	mg/L	1.66 %
Cr 267.716	42,105.1	0.3340	0.00120	mg/L	0.3340	0.00120	mg/L	0.36 %
Cu 324.754	26,619.0	0.1039	0.00015	mg/L	0.1039	0.00015	mg/L	0.14 %
Fe 273.955	3,062,289.8	121.6	0.15	mg/L	121.6	0.15	mg/L	0.12 %
K 766.491R	24,580.7	10.5	0.09	mg/L	10.5	0.09	mg/L	0.85 %
Li 670.781R	7,875.0	0.113	0.0007	mg/L	0.113	0.0007	mg/L	0.59 %
Mg 279.079R	74,142.7	30.6	0.06	mg/L	30.6	0.06	mg/L	0.21 %
Mn 257.610	1,302,678.0	1.778	0.0022	mg/L	1.778	0.0022	mg/L	0.12 %
Mo 202.030	-86.4	0.0071	0.00036	mg/L	0.0071	0.00036	mg/L	5.04 %
Na 589.592R	11,096.4	1.10	0.011	mg/L	1.10	0.011	mg/L	1.03 %
Ni 231.604	8,599.6	0.155	0.0019	mg/L	0.155	0.0019	mg/L	1.22 %
Pb 220.353	-101.7	0.0872	0.00101	mg/L	0.0872	0.00101	mg/L	1.16 %
Sb 206.833	252.5	-0.0258	0.00274	mg/L	-0.0258	0.00274	mg/L	10.62 %
Se 196.026	-24.1	-0.0134	0.00104	mg/L	-0.0134	0.00104	mg/L	7.77 %
Sn 189.933	33.3	0.0028	0.00089	mg/L	0.0028	0.00089	mg/L	32.12 %
Sr 421.539R	137,745.9	0.1803	0.00037	mg/L	0.1803	0.00037	mg/L	0.21 %
Ti 337.280	4,210,129.5	6.787	0.0050	mg/L	6.787	0.0050	mg/L	0.07 %
Tl 190.800	-227.5	0.0078	0.00131	mg/L	0.0078	0.00131	mg/L	16.83 %
V 292.402	71,592.9	0.3140	0.00168	mg/L	0.3140	0.00168	mg/L	0.54 %
Zn 206.191	16,604.9	0.2928	0.00296	mg/L	0.2928	0.00296	mg/L	1.01 %

Mean Data

ID: b302882-07 **Seq. No.:** 30 **A/S Pos:** 414

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:56:44

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	238,889.3	103.3	1.60	%			%	1.55 %
Y 324.227A	1,429,076.5	102.7	0.55	%			%	0.53 %
Ag 328.068	-1,488.7	0.0002	0.00087	mg/L	0.0002	0.00087	mg/L	408.48 %
Al 308.215	222,077.6	169	0.2	mg/L	169	0.2	mg/L	0.10 %
As 188.979	-38.0	0.0427	0.00374	mg/L	0.0427	0.00374	mg/L	8.76 %
Ba 233.527	121,425.9	0.9956	0.00040	mg/L	0.9956	0.00040	mg/L	0.04 %
Be 313.107	30,027.2	0.0058	0.00005	mg/L	0.0058	0.00005	mg/L	0.93 %
B 208.959	378.5	0.0170	0.00109	mg/L	0.0170	0.00109	mg/L	6.40 %
Ca 317.933	851,598.4	29.05	0.029	mg/L	29.05	0.029	mg/L	0.10 %
Cd 228.802	326.4	0.0077	0.00012	mg/L	0.0077	0.00012	mg/L	1.55 %
Co 228.616	2,829.9	0.0487	0.00047	mg/L	0.0487	0.00047	mg/L	0.97 %
Cr 267.716	30,951.1	0.2448	0.00010	mg/L	0.2448	0.00010	mg/L	0.04 %
Cu 324.754	72,541.5	0.2773	0.00036	mg/L	0.2773	0.00036	mg/L	0.13 %
Fe 273.955	2,516,487.2	99.95	0.056	mg/L	99.95	0.056	mg/L	0.06 %
K 766.491R	17,185.4	7.35	0.046	mg/L	7.35	0.046	mg/L	0.62 %
Li 670.781R	6,013.6	0.086	0.0018	mg/L	0.086	0.0018	mg/L	2.11 %
Mg 279.079R	43,508.6	17.9	0.07	mg/L	17.9	0.07	mg/L	0.37 %
Mn 257.610	2,272,128.6	3.102	0.0017	mg/L	3.102	0.0017	mg/L	0.06 %
Mo 202.030	14.2	0.0088	0.00053	mg/L	0.0088	0.00053	mg/L	6.04 %
Na 589.592R	4,977.6	0.492	0.0088	mg/L	0.492	0.0088	mg/L	1.78 %
Ni 231.604	6,693.8	0.121	0.0009	mg/L	0.121	0.0009	mg/L	0.75 %
Pb 220.353	3,203.5	0.3572	0.00236	mg/L	0.3572	0.00236	mg/L	0.66 %
Sb 206.833	181.8	-0.0169	0.00275	mg/L	-0.0169	0.00275	mg/L	16.29 %
Se 196.026	-34.0	-0.0115	0.00339	mg/L	-0.0115	0.00339	mg/L	29.50 %
Sn 189.933	200.4	0.0175	0.00036	mg/L	0.0175	0.00036	mg/L	2.03 %
Sr 421.539R	147,682.3	0.1933	0.00019	mg/L	0.1933	0.00019	mg/L	0.10 %
Ti 337.280	1,523,455.8	2.456	0.0007	mg/L	2.456	0.0007	mg/L	0.03 %

Tl 190.800	-182.5	0.0035	0.00399	mg/L	0.0035		0.00399	mg/L	115.13 %
V 292.402	49,369.4	0.2187	0.00058	mg/L	0.2187		0.00058	mg/L	0.26 %
Zn 206.191	36,556.1	0.6343	0.00567	mg/L	0.6343		0.00567	mg/L	0.89 %

Mean Data

ID: b302882-08 **Seq. No.:** 31 **A/S Pos:** 415

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 10:58:34

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	237,486.3	102.7	0.54	%			%	0.53 %
Y 324.227A	1,431,518.0	102.9	0.26	%			%	0.25 %
Ag 328.068	-2,399.2	-0.0020	0.00031	mg/L	-0.0020	0.00031	mg/L	15.58 %
Al 308.215	323,946.3	246	0.5	mg/L	246	0.5	mg/L	0.21 %
As 188.979	-91.4	0.0378	0.00236	mg/L	0.0378	0.00236	mg/L	6.25 %
Ba 233.527	108,585.4	0.8889	0.00083	mg/L	0.8889	0.00083	mg/L	0.09 %
Be 313.107	38,172.4	0.0067	0.00002	mg/L	0.0067	0.00002	mg/L	0.37 %
B 208.959	436.7	0.0140	0.00175	mg/L	0.0140	0.00175	mg/L	12.56 %
Ca 317.933	425,744.6	14.52	0.024	mg/L	14.52	0.024	mg/L	0.17 %
Cd 228.802	-22.4	-0.0005	0.00013	mg/L	-0.0005	0.00013	mg/L	26.12 %
Co 228.616	2,958.3	0.0436	0.00038	mg/L	0.0436	0.00038	mg/L	0.88 %
Cr 267.716	39,273.4	0.3116	0.00020	mg/L	0.3116	0.00020	mg/L	0.07 %
Cu 324.754	21,359.5	0.0832	0.00037	mg/L	0.0832	0.00037	mg/L	0.45 %
Fe 273.955	2,869,270.7	114.0	0.05	mg/L	114.0	0.05	mg/L	0.04 %
K 766.491R	19,981.7	8.54	0.029	mg/L	8.54	0.029	mg/L	0.34 %
Li 670.781R	7,295.6	0.104	0.0020	mg/L	0.104	0.0020	mg/L	1.89 %
Mg 279.079R	63,512.1	26.2	0.07	mg/L	26.2	0.07	mg/L	0.28 %
Mn 257.610	1,112,943.5	1.519	0.0006	mg/L	1.519	0.0006	mg/L	0.04 %
Mo 202.030	-73.7	0.0072	0.00080	mg/L	0.0072	0.00080	mg/L	11.15 %
Na 589.592R	7,092.2	0.701	0.0045	mg/L	0.701	0.0045	mg/L	0.64 %
Ni 231.604	7,867.7	0.142	0.0008	mg/L	0.142	0.0008	mg/L	0.58 %
Pb 220.353	51.3	0.0979	0.00185	mg/L	0.0979	0.00185	mg/L	1.88 %
Sb 206.833	242.2	-0.0245	0.00246	mg/L	-0.0245	0.00246	mg/L	10.05 %
Se 196.026	-19.0	-0.0126	0.00135	mg/L	-0.0126	0.00135	mg/L	10.71 %
Sn 189.933	74.4	0.0064	0.00040	mg/L	0.0064	0.00040	mg/L	6.26 %
Sr 421.539R	128,290.3	0.1679	0.00037	mg/L	0.1679	0.00037	mg/L	0.22 %
Ti 337.280	3,562,017.4	5.742	0.0068	mg/L	5.742	0.0068	mg/L	0.12 %
Tl 190.800	-219.2	0.0068	0.00288	mg/L	0.0068	0.00288	mg/L	42.41 %
V 292.402	72,122.3	0.3177	0.00003	mg/L	0.3177	0.00003	mg/L	0.01 %
Zn 206.191	16,151.4	0.2848	0.00132	mg/L	0.2848	0.00132	mg/L	0.46 %

Mean Data

ID: b302882-09 **Seq. No.:** 32 **A/S Pos:** 416

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:00:24

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	258,679.4	111.8	0.84	%			%	0.75 %
Y 324.227A	1,525,291.7	109.6	0.29	%			%	0.27 %
Ag 328.068	-1,184.4	-0.0016	0.00020	mg/L	-0.0016	0.00020	mg/L	12.43 %
Al 308.215	247,613.7	188	0.1	mg/L	188	0.1	mg/L	0.06 %
As 188.979	-50.5	0.0368	0.00264	mg/L	0.0368	0.00264	mg/L	7.18 %
Ba 233.527	197,759.3	1.625	0.0017	mg/L	1.625	0.0017	mg/L	0.11 %
Be 313.107	49,094.6	0.0102	0.00003	mg/L	0.0102	0.00003	mg/L	0.26 %
B 208.959	310.1	0.0085	0.00061	mg/L	0.0085	0.00061	mg/L	7.11 %
Ca 317.933	498,782.6	17.01	0.026	mg/L	17.01	0.026	mg/L	0.15 %
Cd 228.802	26.5	0.0007	0.00008	mg/L	0.0007	0.00008	mg/L	11.54 %
Co 228.616	2,888.9	0.0520	0.00031	mg/L	0.0520	0.00031	mg/L	0.59 %
Cr 267.716	27,371.0	0.2101	0.00032	mg/L	0.2101	0.00032	mg/L	0.15 %
Cu 324.754	10,036.5	0.0379	0.00023	mg/L	0.0379	0.00023	mg/L	0.62 %
Fe 273.955	2,387,934.0	94.84	0.112	mg/L	94.84	0.112	mg/L	0.12 %
K 766.491R	11,863.7	5.07	0.019	mg/L	5.07	0.019	mg/L	0.38 %
Li 670.781R	6,388.9	0.091	0.0010	mg/L	0.091	0.0010	mg/L	1.12 %

Mg 279.079R	43,683.8	18.0	0.04	mg/L	18.0	0.04	mg/L	0.25 %
Mn 257.610	13,419,004.7	18.32	0.215	mg/L	18.32	0.215	mg/L	1.18 %
Mo 202.030	-101.3	0.0063	0.00030	mg/L	0.0063	0.00030	mg/L	4.72 %
Na 589.592R	5,726.0	0.566	0.0162	mg/L	0.566	0.0162	mg/L	2.87 %
Ni 231.604	6,737.6	0.122	0.0004	mg/L	0.122	0.0004	mg/L	0.31 %
Pb 220.353	395.1	0.1075	0.00073	mg/L	0.1075	0.00073	mg/L	0.68 %
Sb 206.833	169.5	-0.0259	0.00683	mg/L	-0.0259	0.00683	mg/L	26.34 %
Se 196.026	19.1	-0.0197	0.00234	mg/L	-0.0197	0.00234	mg/L	11.87 %
Sn 189.933	84.9	0.0072	0.00004	mg/L	0.0072	0.00004	mg/L	0.58 %
Sr 421.539R	140,512.8	0.1839	0.00008	mg/L	0.1839	0.00008	mg/L	0.04 %
Ti 337.280	1,083,560.8	1.747	0.0017	mg/L	1.747	0.0017	mg/L	0.10 %
Tl 190.800	-451.7	-0.0330	0.00261	mg/L	-0.0330	0.00261	mg/L	7.91 %
V 292.402	43,761.6	0.1941	0.00029	mg/L	0.1941	0.00029	mg/L	0.15 %
Zn 206.191	16,341.9	0.2863	0.00130	mg/L	0.2863	0.00130	mg/L	0.46 %

Mean Data

ID: b302882-10 **Seq. No.:** 33 **A/S Pos:** 417

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:02:21

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	236,706.0	102.3	0.35	%			%	0.35 %
Y 324.227A	1,414,264.0	101.6	0.95	%			%	0.94 %
Ag 328.068	-3,177.2	-0.0032	0.00043	mg/L	-0.0032	0.00043	mg/L	13.78 %
Al 308.215	378,137.2	288	0.4	mg/L	288	0.4	mg/L	0.13 %
As 188.979	-123.3	0.0417	0.01449	mg/L	0.0417	0.01449	mg/L	34.73 %
Ba 233.527	109,310.2	0.8932	0.00300	mg/L	0.8932	0.00300	mg/L	0.34 %
Be 313.107	44,299.5	0.0074	0.00002	mg/L	0.0074	0.00002	mg/L	0.30 %
B 208.959	524.6	0.0179	0.00277	mg/L	0.0179	0.00277	mg/L	15.53 %
Ca 317.933	494,402.2	16.86	0.022	mg/L	16.86	0.022	mg/L	0.13 %
Cd 228.802	-72.0	-0.0017	0.00066	mg/L	-0.0017	0.00066	mg/L	39.39 %
Co 228.616	3,782.1	0.0543	0.00043	mg/L	0.0543	0.00043	mg/L	0.79 %
Cr 267.716	48,614.6	0.3857	0.00283	mg/L	0.3857	0.00283	mg/L	0.73 %
Cu 324.754	27,959.3	0.1093	0.00052	mg/L	0.1093	0.00052	mg/L	0.48 %
Fe 273.955	3,609,981.0	143.4	0.45	mg/L	143.4	0.45	mg/L	0.32 %
K 766.491R	25,400.7	10.9	0.05	mg/L	10.9	0.05	mg/L	0.50 %
Li 670.781R	9,258.7	0.132	0.0034	mg/L	0.132	0.0034	mg/L	2.58 %
Mg 279.079R	81,990.8	33.8	0.04	mg/L	33.8	0.04	mg/L	0.13 %
Mn 257.610	1,474,153.5	2.013	0.0066	mg/L	2.013	0.0066	mg/L	0.33 %
Mo 202.030	-119.9	0.0067	0.00230	mg/L	0.0067	0.00230	mg/L	34.15 %
Na 589.592R	8,915.8	0.881	0.0060	mg/L	0.881	0.0060	mg/L	0.68 %
Ni 231.604	9,485.2	0.171	0.0013	mg/L	0.171	0.0013	mg/L	0.78 %
Pb 220.353	177.5	0.1251	0.00550	mg/L	0.1251	0.00550	mg/L	4.40 %
Sb 206.833	321.2	-0.0172	0.01235	mg/L	-0.0172	0.01235	mg/L	71.92 %
Se 196.026	-53.5	-0.0219	0.02464	mg/L	-0.0219	0.02464	mg/L	112.50 %
Sn 189.933	53.4	0.0043	0.00110	mg/L	0.0043	0.00110	mg/L	25.40 %
Sr 421.539R	142,752.1	0.1868	0.00033	mg/L	0.1868	0.00033	mg/L	0.18 %
Ti 337.280	4,958,432.8	7.993	0.0258	mg/L	7.993	0.0258	mg/L	0.32 %
Tl 190.800	-281.5	0.0024	0.00618	mg/L	0.0024	0.00618	mg/L	258.05 %
V 292.402	94,279.4	0.4148	0.00223	mg/L	0.4148	0.00223	mg/L	0.54 %
Zn 206.191	20,913.9	0.3679	0.00261	mg/L	0.3679	0.00261	mg/L	0.71 %

Mean Data

ID: b302882-11 **Seq. No.:** 34 **A/S Pos:** 418

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:03:25

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	242,691.8	104.9	1.25	%			%	1.19 %
Y 324.227A	1,441,512.3	103.6	0.09	%			%	0.09 %
Ag 328.068	-2,141.5	0.0021	0.00034	mg/L	0.0021	0.00034	mg/L	16.16 %
Al 308.215	407,105.1	310	0.3	mg/L	310	0.3	mg/L	0.09 %
As 188.979	-117.5	0.0521	0.00588	mg/L	0.0521	0.00588	mg/L	11.28 %

Ba 233.527	208,105.9	1.706	0.0030	mg/L	1.706	0.0030	mg/L	0.18 %
Be 313.107	40,230.7	0.0073	0.00003	mg/L	0.0073	0.00003	mg/L	0.37 %
B 208.959	818.8	0.0432	0.00117	mg/L	0.0432	0.00117	mg/L	2.70 %
Ca 317.933	1,541,290.6	52.57	1.012	mg/L	52.57	1.012	mg/L	1.92 %
Cd 228.802	663.4	0.0156	0.00048	mg/L	0.0156	0.00048	mg/L	3.10 %
Co 228.616	4,339.8	0.0719	0.00139	mg/L	0.0719	0.00139	mg/L	1.93 %
Cr 267.716	50,354.3	0.3993	0.00220	mg/L	0.3993	0.00220	mg/L	0.55 %
Cu 324.754	300,668.7	1.150	0.0016	mg/L	1.150	0.0016	mg/L	0.14 %
Fe 273.955	4,239,329.0	168.4	0.18	mg/L	168.4	0.18	mg/L	0.11 %
K 766.491R	28,794.2	12.3	0.06	mg/L	12.3	0.06	mg/L	0.48 %
Li 670.781R	7,664.6	0.110	0.0007	mg/L	0.110	0.0007	mg/L	0.67 %
Mg 279.079R	67,736.8	27.9	0.03	mg/L	27.9	0.03	mg/L	0.10 %
Mn 257.610	1,819,329.8	2.484	0.0028	mg/L	2.484	0.0028	mg/L	0.11 %
Mo 202.030	44.7	0.0163	0.00144	mg/L	0.0163	0.00144	mg/L	8.88 %
Na 589.592R	13,002.4	1.28	0.002	mg/L	1.28	0.002	mg/L	0.19 %
Ni 231.604	10,661.5	0.193	0.0021	mg/L	0.193	0.0021	mg/L	1.07 %
Pb 220.353	6,585.8	0.7201	0.00835	mg/L	0.7201	0.00835	mg/L	1.16 %
Sb 206.833	322.5	-0.0302	0.01323	mg/L	-0.0302	0.01323	mg/L	43.78 %
Se 196.026	-30.0	-0.0110	0.00296	mg/L	-0.0110	0.00296	mg/L	26.93 %
Sn 189.933	1,346.1	0.1229	0.00360	mg/L	0.1229	0.00360	mg/L	2.93 %
Sr 421.539R	386,162.4	0.5053	0.00951	mg/L	0.5053	0.00951	mg/L	1.88 %
Ti 337.280	3,017,985.9	4.865	0.0054	mg/L	4.865	0.0054	mg/L	0.11 %
Tl 190.800	-303.9	0.0059	0.02261	mg/L	0.0059	0.02261	mg/L	381.27 %
V 292.402	69,686.1	0.3067	0.00062	mg/L	0.3067	0.00062	mg/L	0.20 %
Zn 206.191	90,879.1	1.574	0.0021	mg/L	1.574	0.0021	mg/L	0.14 %

Mean Data

ID: b302882-12 **Seq. No.:** 35 **A/S Pos:** 419

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:04:23

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	234,849.3	101.5	0.53	%			%	0.52 %
Y 324.227A	1,399,210.5	100.6	0.54	%			%	0.54 %
Ag 328.068	-875.0	0.0040	0.00025	mg/L	0.0040	0.00025	mg/L	6.19 %
Al 308.215	200,440.6	153	0.2	mg/L	153	0.2	mg/L	0.13 %
As 188.979	-67.2	0.0315	0.00106	mg/L	0.0315	0.00106	mg/L	3.37 %
Ba 233.527	74,120.9	0.6053	0.00039	mg/L	0.6053	0.00039	mg/L	0.06 %
Be 313.107	24,789.8	0.0039	0.00001	mg/L	0.0039	0.00001	mg/L	0.35 %
B 208.959	435.1	0.0244	0.00124	mg/L	0.0244	0.00124	mg/L	5.08 %
Ca 317.933	425,030.7	14.50	0.027	mg/L	14.50	0.027	mg/L	0.19 %
Cd 228.802	136.8	0.0032	0.00003	mg/L	0.0032	0.00003	mg/L	0.96 %
Co 228.616	2,518.2	0.0362	0.00046	mg/L	0.0362	0.00046	mg/L	1.26 %
Cr 267.716	31,921.2	0.2534	0.00023	mg/L	0.2534	0.00023	mg/L	0.09 %
Cu 324.754	65,540.7	0.2522	0.00028	mg/L	0.2522	0.00028	mg/L	0.11 %
Fe 273.955	2,594,979.9	103.1	0.09	mg/L	103.1	0.09	mg/L	0.09 %
K 766.491R	20,308.6	8.68	0.058	mg/L	8.68	0.058	mg/L	0.67 %
Li 670.781R	6,520.6	0.093	0.0005	mg/L	0.093	0.0005	mg/L	0.53 %
Mg 279.079R	63,259.2	26.1	0.10	mg/L	26.1	0.10	mg/L	0.39 %
Mn 257.610	691,925.1	0.9446	0.00071	mg/L	0.9446	0.00071	mg/L	0.08 %
Mo 202.030	25.9	0.0087	0.00043	mg/L	0.0087	0.00043	mg/L	4.92 %
Na 589.592R	7,027.4	0.694	0.0004	mg/L	0.694	0.0004	mg/L	0.05 %
Ni 231.604	6,283.9	0.114	0.0007	mg/L	0.114	0.0007	mg/L	0.59 %
Pb 220.353	2,319.5	0.2699	0.00078	mg/L	0.2699	0.00078	mg/L	0.29 %
Sb 206.833	174.0	-0.0147	0.00378	mg/L	-0.0147	0.00378	mg/L	25.68 %
Se 196.026	-46.5	-0.0083	0.00413	mg/L	-0.0083	0.00413	mg/L	49.67 %
Sn 189.933	197.0	0.0177	0.00080	mg/L	0.0177	0.00080	mg/L	4.49 %
Sr 421.539R	144,434.9	0.1890	0.00030	mg/L	0.1890	0.00030	mg/L	0.16 %
Ti 337.280	3,202,072.1	5.162	0.0051	mg/L	5.162	0.0051	mg/L	0.10 %
Tl 190.800	-143.8	0.0060	0.00268	mg/L	0.0060	0.00268	mg/L	44.40 %
V 292.402	50,499.2	0.2208	0.00052	mg/L	0.2208	0.00052	mg/L	0.23 %
Zn 206.191	82,694.6	1.429	0.0020	mg/L	1.429	0.0020	mg/L	0.14 %

Mean Data

ID: d5.b302882-13 **Seq. No.:** 36 **A/S Pos:** 420

Sample Qty: g **Prep. Vol.:** **Dilution:** 1.00 : 5.00 **Date:** 2013/06/27 11:06:19

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,643.1	97.97	0.788	%			%	0.80 %
Y 324.227A	1,343,757.0	96.58	0.909	%			%	0.94 %
Ag 328.068	4,533.5	0.0276	0.00056	mg/L	0.1379	0.00281	mg/L	2.04 %
Al 308.215	59,206.9	45.0	0.06	mg/L	225	0.3	mg/L	0.14 %
As 188.979	-19.9	0.0294	0.00186	mg/L	0.1470	0.00930	mg/L	6.33 %
Ba 233.527	95,276.9	0.7802	0.00442	mg/L	3.901	0.0221	mg/L	0.57 %
Be 313.107	5,657.7	0.0010	0.00002	mg/L	0.0049	0.00009	mg/L	1.82 %
B 208.959	599.2	0.0439	0.00110	mg/L	0.2193	0.00551	mg/L	2.51 %
Ca 317.933	2,027,262.3	69.15	1.099	mg/L	345.8	5.49	mg/L	1.59 %
Cd 228.802	524.5	0.0123	0.00022	mg/L	0.0613	0.00109	mg/L	1.78 %
Co 228.616	1,108.8	0.0186	0.00039	mg/L	0.0929	0.00194	mg/L	2.09 %
Cr 267.716	17,070.0	0.1351	0.00136	mg/L	0.6754	0.00680	mg/L	1.01 %
Cu 324.754	346,908.5	1.326	0.0081	mg/L	6.628	0.0404	mg/L	0.61 %
Fe 273.955	2,357,169.5	93.62	0.539	mg/L	468.1	2.69	mg/L	0.58 %
K 766.491R	6,199.3	2.65	0.061	mg/L	13.3	0.31	mg/L	2.31 %
Li 670.781R	1,348.3	0.019	0.0023	mg/L	0.096	0.0115	mg/L	11.94 %
Mg 279.079R	13,672.1	5.64	0.014	mg/L	28.2	0.07	mg/L	0.25 %
Mn 257.610	1,078,687.9	1.473	0.0090	mg/L	7.363	0.0449	mg/L	0.61 %
Mo 202.030	2,595.9	0.1416	0.00150	mg/L	0.7079	0.00749	mg/L	1.06 %
Na 589.592R	6,194.6	0.612	0.0068	mg/L	3.06	0.034	mg/L	1.11 %
Ni 231.604	4,755.1	0.086	0.0007	mg/L	0.430	0.0037	mg/L	0.86 %
Pb 220.353	71,533.4	6.560	0.0294	mg/L	32.80	0.147	mg/L	0.45 %
Sb 206.833	187.7	0.0278	0.00267	mg/L	0.1392	0.01334	mg/L	9.59 %
Se 196.026	-60.2	0.0003	0.00379	mg/L	0.0013	0.01895	mg/L	1,461.86 %
Sn 189.933	1,003.1	0.0905	0.00162	mg/L	0.4524	0.00812	mg/L	1.79 %
Sr 421.539R	238,331.8	0.3119	0.00537	mg/L	1.559	0.0268	mg/L	1.72 %
Ti 337.280	314,809.7	0.5075	0.00347	mg/L	2.537	0.0174	mg/L	0.68 %
Tl 190.800	-95.6	-0.0010	0.00487	mg/L	-0.0048	0.02437	mg/L	505.10 %
V 292.402	13,028.2	0.0576	0.00055	mg/L	0.2880	0.00275	mg/L	0.95 %
Zn 206.191	349,888.6	6.031	0.0300	mg/L	30.15	0.150	mg/L	0.50 %

Mean Data

ID: CVS **Seq. No.:** 37 **A/S Pos:** 3

2013/06/27 11:09:28 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2013/06/27 11:08:16

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,379.0	97.86	0.779	%				0.80 %
Y 324.227A	1,344,278.9	96.62	0.378	%				0.39 %
Ag 328.068	101,331.2	0.4960	0.00195	mg/L	0.4960			0.39 %
2013/06/27 11:09:27 QC value within limits for Ag 328.068 Recovery = 99.20%								
Al 308.215	6,397.0	4.85	0.038	mg/L	4.85			0.78 %
2013/06/27 11:09:27 QC value within limits for Al 308.215 Recovery = 97.03%								
As 188.979	1,042.5	0.4745	0.00097	mg/L	0.4745			0.20 %
2013/06/27 11:09:27 QC value within limits for As 188.979 Recovery = 94.89%								
Ba 233.527	58,087.4	0.4791	0.00061	mg/L	0.4791			0.13 %
2013/06/27 11:09:27 QC value within limits for Ba 233.527 Recovery = 95.83%								
Be 313.107	219,036.5	0.0483	0.00005	mg/L	0.0483			0.09 %
2013/06/27 11:09:27 QC value within limits for Be 313.107 Recovery = 96.61%								
B 208.959	24,788.5	2.369	0.0059	mg/L	2.369			0.25 %
2013/06/27 11:09:27 QC value within limits for B 208.959 Recovery = 94.74%								
Ca 317.933	138,857.0	4.736	0.0521	mg/L	4.736			1.10 %
2013/06/27 11:09:27 QC value within limits for Ca 317.933 Recovery = 94.73%								
Cd 228.802	2,114.7	0.0498	0.00026	mg/L	0.0498			0.51 %
2013/06/27 11:09:27 QC value within limits for Cd 228.802 Recovery = 99.61%								
Co 228.616	24,257.7	0.4883	0.00096	mg/L	0.4883			0.20 %

2013/06/27 11:09:27 QC value within limits for Co 228.616 Recovery = 97.65%

Cr 267.716	61,773.1	0.4909	0.00058	mg/L	0.4909	0.12 %

2013/06/27 11:09:27 QC value within limits for Cr 267.716 Recovery = 98.19%

Cu 324.754	128,203.7	0.4909	0.00119	mg/L	0.4909	0.24 %

2013/06/27 11:09:27 QC value within limits for Cu 324.754 Recovery = 98.18%

Fe 273.955	61,500.8	2.440	0.0046	mg/L	2.440	0.19 %

2013/06/27 11:09:27 QC value within limits for Fe 273.955 Recovery = 97.59%

K 766.491R	56,675.7	24.2	0.05	mg/L	24.2	0.21 %

2013/06/27 11:09:27 QC value within limits for K 766.491R Recovery = 96.93%

Li 670.781R	34,012.2	0.486	0.0025	mg/L	0.486	0.50 %

2013/06/27 11:09:27 QC value within limits for Li 670.781R Recovery = 97.25%

Mg 279.079R	11,380.5	4.69	0.046	mg/L	4.69	0.97 %

2013/06/27 11:09:27 QC value within limits for Mg 279.079R Recovery = 93.87%

Mn 257.610	356,257.5	0.4864	0.00054	mg/L	0.4864	0.11 %

2013/06/27 11:09:27 QC value within limits for Mn 257.610 Recovery = 97.27%

Mo 202.030	9,034.3	0.4851	0.00105	mg/L	0.4851	0.22 %

2013/06/27 11:09:27 QC value within limits for Mo 202.030 Recovery = 97.01%

Na 589.592R	243,657.3	24.1	0.04	mg/L	24.1	0.16 %

2013/06/27 11:09:27 QC value within limits for Na 589.592R Recovery = 96.29%

Ni 231.604	26,867.2	0.485	0.0008	mg/L	0.485	0.17 %

2013/06/27 11:09:27 QC value within limits for Ni 231.604 Recovery = 97.07%

Pb 220.353	5,253.5	0.4830	0.00176	mg/L	0.4830	0.36 %

2013/06/27 11:09:27 QC value within limits for Pb 220.353 Recovery = 96.59%

Sb 206.833	1,349.7	0.4735	0.00206	mg/L	0.4735	0.43 %

2013/06/27 11:09:27 QC value within limits for Sb 206.833 Recovery = 94.71%

Se 196.026	1,427.3	0.4735	0.00303	mg/L	0.4735	0.64 %

2013/06/27 11:09:27 QC value within limits for Se 196.026 Recovery = 94.69%

Sn 189.933	5,139.8	0.4767	0.00046	mg/L	0.4767	0.10 %

2013/06/27 11:09:27 QC value within limits for Sn 189.933 Recovery = 95.34%

Sr 421.539R	372,258.1	0.4872	0.00107	mg/L	0.4872	0.22 %

2013/06/27 11:09:27 QC value within limits for Sr 421.539R Recovery = 97.43%

Ti 337.280	153,331.8	0.2472	0.00055	mg/L	0.2472	0.22 %

2013/06/27 11:09:27 QC value within limits for Ti 337.280 Recovery = 98.87%

Tl 190.800	1,764.2	0.4948	0.00314	mg/L	0.4948	0.63 %

2013/06/27 11:09:27 QC value within limits for Tl 190.800 Recovery = 98.95%

V 292.402	108,898.9	0.4977	0.00065	mg/L	0.4977	0.13 %

2013/06/27 11:09:27 QC value within limits for V 292.402 Recovery = 99.53%

Zn 206.191	27,379.5	0.4741	0.00129	mg/L	0.4741	0.27 %

2013/06/27 11:09:27 QC value within limits for Zn 206.191 Recovery = 94.81%

Mean Data

ID: BLK **Seq. No.:** 38 **A/S Pos:** 1

2013/06/27 11:11:24 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:10:12

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,771.8	99.32	0.425	%				0.43 %
Y 324.227A	1,375,358.8	98.85	1.180	%				1.19 %
Ag 328.068	128.6	0.0006	0.00046	mg/L	0.0006			74.20 %

2013/06/27 11:11:22 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	24.5	0.019	0.0083	mg/L	0.019	44.71 %

2013/06/27 11:11:22 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	8.2	0.0037	0.00128	mg/L	0.0037	34.40 %

2013/06/27 11:11:22 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-34.4	-0.0003	0.00008	mg/L	-0.0003	28.80 %

2013/06/27 11:11:22 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	380.4	0.0001	0.00001	mg/L	0.0001	11.52 %

2013/06/27 11:11:22 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	88.3	0.0084	0.00053	mg/L	0.0084	6.28 %

2013/06/27 11:11:22 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	52.9	0.0018	0.00559	mg/L	0.0018	309.57 %

2013/06/27 11:11:22 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	24.5	0.0006	0.00017	mg/L	0.0006	29.86 %
2013/06/27 11:11:22	QC value within limits for Cd 228.802 Recovery = Not calculated					
Co 228.616	-31.9	-0.0006	0.00021	mg/L	-0.0006	32.46 %
2013/06/27 11:11:22	QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716	-6.9	-0.0001	0.00010	mg/L	-0.0001	181.74 %
2013/06/27 11:11:22	QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.754	25.6	0.0001	0.00041	mg/L	0.0001	418.35 %
2013/06/27 11:11:22	QC value within limits for Cu 324.754 Recovery = Not calculated					
Fe 273.955	179.5	0.0071	0.00093	mg/L	0.0071	13.08 %
2013/06/27 11:11:22	QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.491R	314.0	0.134	0.0261	mg/L	0.134	19.42 %
2013/06/27 11:11:22	QC value within limits for K 766.491R Recovery = Not calculated					
Li 670.781R	-92.2	-0.001	0.0007	mg/L	-0.001	56.62 %
2013/06/27 11:11:22	QC value within limits for Li 670.781R Recovery = Not calculated					
Mg 279.079R	56.0	0.023	0.0163	mg/L	0.023	70.42 %
2013/06/27 11:11:22	QC value within limits for Mg 279.079R Recovery = Not calculated					
Mn 257.610	93.9	0.0001	0.00002	mg/L	0.0001	12.79 %
2013/06/27 11:11:22	QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.030	33.3	0.0018	0.00030	mg/L	0.0018	16.87 %
2013/06/27 11:11:22	QC value within limits for Mo 202.030 Recovery = Not calculated					
Na 589.592R	121.5	0.012	0.0105	mg/L	0.012	87.67 %
2013/06/27 11:11:22	QC value within limits for Na 589.592R Recovery = Not calculated					
Ni 231.604	28.4	0.001	0.0002	mg/L	0.001	33.16 %
2013/06/27 11:11:22	QC value within limits for Ni 231.604 Recovery = Not calculated					
Pb 220.353	55.3	0.0051	0.00125	mg/L	0.0051	24.63 %
2013/06/27 11:11:22	QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.833	-22.2	-0.0080	0.00278	mg/L	-0.0080	34.84 %
2013/06/27 11:11:22	QC value within limits for Sb 206.833 Recovery = Not calculated					
Se 196.026	-6.5	-0.0022	0.00157	mg/L	-0.0022	72.67 %
2013/06/27 11:11:22	QC value within limits for Se 196.026 Recovery = Not calculated					
Sn 189.933	4.6	0.0004	0.00071	mg/L	0.0004	165.58 %
2013/06/27 11:11:22	QC value within limits for Sn 189.933 Recovery = Not calculated					
Sr 421.539R	134.9	0.0002	0.00034	mg/L	0.0002	192.92 %
2013/06/27 11:11:22	QC value within limits for Sr 421.539R Recovery = Not calculated					
Ti 337.280	195.1	0.0003	0.00015	mg/L	0.0003	48.95 %
2013/06/27 11:11:22	QC value within limits for Ti 337.280 Recovery = Not calculated					
Tl 190.800	25.8	0.0073	0.00199	mg/L	0.0073	27.41 %
2013/06/27 11:11:22	QC value within limits for Tl 190.800 Recovery = Not calculated					
V 292.402	-15.8	-0.0001	0.00039	mg/L	-0.0001	681.98 %
2013/06/27 11:11:22	QC value within limits for V 292.402 Recovery = Not calculated					
Zn 206.191	236.4	0.0041	0.00026	mg/L	0.0041	6.38 %
2013/06/27 11:11:22	QC value within limits for Zn 206.191 Recovery = Not calculated					

Mean Data

ID: b302882-14 **Seq. No.:** 39 **A/S Pos:** 421

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:12:06

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,969.7	97.68	1.170	%			%	1.20 %
Y 324.227A	1,368,907.2	98.39	0.570	%			%	0.58 %
Ag 328.068	-1,720.4	0.0015	0.00048	mg/L	0.0015	0.00048	mg/L	32.19 %
Al 308.215	317,646.9	242	0.1	mg/L	242	0.1	mg/L	0.04 %
As 188.979	-88.4	0.0431	0.00627	mg/L	0.0431	0.00627	mg/L	14.55 %
Ba 233.527	111,821.4	0.9151	0.00139	mg/L	0.9151	0.00139	mg/L	0.15 %
Be 313.107	30,141.1	0.0046	0.00006	mg/L	0.0046	0.00006	mg/L	1.29 %
B 208.959	696.7	0.0396	0.00283	mg/L	0.0396	0.00283	mg/L	7.15 %
Ca 317.933	569,360.2	19.42	0.017	mg/L	19.42	0.017	mg/L	0.09 %
Cd 228.802	64.4	0.0015	0.00047	mg/L	0.0015	0.00047	mg/L	30.81 %
Co 228.616	3,133.7	0.0443	0.00119	mg/L	0.0443	0.00119	mg/L	2.68 %
Cr 267.716	41,760.7	0.3315	0.00292	mg/L	0.3315	0.00292	mg/L	0.88 %
Cu 324.754	102,220.1	0.3933	0.00130	mg/L	0.3933	0.00130	mg/L	0.33 %

Fe 273.955	3,092,396.4	122.8	0.15	mg/L	122.8	0.15	mg/L	0.12 %
K 766.491R	28,754.0	12.3	0.06	mg/L	12.3	0.06	mg/L	0.46 %
Li 670.781R	7,646.1	0.109	0.0009	mg/L	0.109	0.0009	mg/L	0.80 %
Mg 279.079R	75,735.5	31.2	0.08	mg/L	31.2	0.08	mg/L	0.27 %
Mn 257.610	904,769.8	1.235	0.0017	mg/L	1.235	0.0017	mg/L	0.13 %
Mo 202.030	-35.5	0.0090	0.00083	mg/L	0.0090	0.00083	mg/L	9.18 %
Na 589.592R	29,704.3	2.93	0.015	mg/L	2.93	0.015	mg/L	0.52 %
Ni 231.604	9,527.5	0.172	0.0012	mg/L	0.172	0.0012	mg/L	0.70 %
Pb 220.353	1,901.8	0.2654	0.00309	mg/L	0.2654	0.00309	mg/L	1.16 %
Sb 206.833	300.7	-0.0046	0.01489	mg/L	-0.0046	0.01489	mg/L	325.00 %
Se 196.026	-31.4	-0.0126	0.01532	mg/L	-0.0126	0.01532	mg/L	121.62 %
Sn 189.933	346.6	0.0314	0.00687	mg/L	0.0314	0.00687	mg/L	21.85 %
Sr 421.539R	161,701.7	0.2116	0.00004	mg/L	0.2116	0.00004	mg/L	0.02 %
Ti 337.280	4,290,767.3	6.917	0.0055	mg/L	6.917	0.0055	mg/L	0.08 %
Tl 190.800	-222.6	0.0056	0.00136	mg/L	0.0056	0.00136	mg/L	24.14 %
V 292.402	61,129.6	0.2666	0.00050	mg/L	0.2666	0.00050	mg/L	0.19 %
Zn 206.191	507,717.8	8.757	0.0059	mg/L	8.757	0.0059	mg/L	0.07 %

Mean Data

ID: b302882-15 **Seq. No.:** 40 **A/S Pos:** 422

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:13:04

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	230,826.4	99.78	0.183	%			%	0.18 %
Y 324.227A	1,372,591.8	98.65	0.358	%			%	0.36 %
Ag 328.068	-2,710.7	-0.0026	0.00042	mg/L	-0.0026	0.00042	mg/L	15.92 %
Al 308.215	373,933.7	285	0.2	mg/L	285	0.2	mg/L	0.06 %
As 188.979	-81.2	0.0550	0.00854	mg/L	0.0550	0.00854	mg/L	15.55 %
Ba 233.527	117,477.1	0.9613	0.00051	mg/L	0.9613	0.00051	mg/L	0.05 %
Be 313.107	37,823.6	0.0062	0.00002	mg/L	0.0062	0.00002	mg/L	0.28 %
B 208.959	767.1	0.0415	0.00664	mg/L	0.0415	0.00664	mg/L	16.01 %
Ca 317.933	722,831.8	24.66	0.005	mg/L	24.66	0.005	mg/L	0.02 %
Cd 228.802	-42.9	-0.0010	0.00049	mg/L	-0.0010	0.00049	mg/L	49.78 %
Co 228.616	3,830.6	0.0576	0.00037	mg/L	0.0576	0.00037	mg/L	0.64 %
Cr 267.716	44,778.9	0.3555	0.00128	mg/L	0.3555	0.00128	mg/L	0.36 %
Cu 324.754	34,514.8	0.1343	0.00060	mg/L	0.1343	0.00060	mg/L	0.44 %
Fe 273.955	3,271,269.5	129.9	0.09	mg/L	129.9	0.09	mg/L	0.07 %
K 766.491R	32,264.5	13.8	0.04	mg/L	13.8	0.04	mg/L	0.28 %
Li 670.781R	9,283.6	0.133	0.0004	mg/L	0.133	0.0004	mg/L	0.29 %
Mg 279.079R	82,397.3	34.0	0.01	mg/L	34.0	0.01	mg/L	0.02 %
Mn 257.610	873,654.3	1.193	0.0010	mg/L	1.193	0.0010	mg/L	0.08 %
Mo 202.030	-56.0	0.0095	0.00269	mg/L	0.0095	0.00269	mg/L	28.15 %
Na 589.592R	11,068.9	1.09	0.007	mg/L	1.09	0.007	mg/L	0.63 %
Ni 231.604	10,796.5	0.195	0.0011	mg/L	0.195	0.0011	mg/L	0.56 %
Pb 220.353	-95.2	0.0991	0.00465	mg/L	0.0991	0.00465	mg/L	4.70 %
Sb 206.833	313.2	-0.0164	0.01347	mg/L	-0.0164	0.01347	mg/L	82.10 %
Se 196.026	-22.7	-0.0148	0.00365	mg/L	-0.0148	0.00365	mg/L	24.67 %
Sn 189.933	141.7	0.0122	0.00178	mg/L	0.0122	0.00178	mg/L	14.57 %
Sr 421.539R	178,024.9	0.2330	0.00015	mg/L	0.2330	0.00015	mg/L	0.07 %
Ti 337.280	4,429,613.6	7.141	0.0060	mg/L	7.141	0.0060	mg/L	0.08 %
Tl 190.800	-233.6	0.0123	0.01405	mg/L	0.0123	0.01405	mg/L	114.43 %
V 292.402	69,327.7	0.3033	0.00009	mg/L	0.3033	0.00009	mg/L	0.03 %
Zn 206.191	18,782.5	0.3311	0.00198	mg/L	0.3311	0.00198	mg/L	0.60 %

Mean Data

ID: b302882-16 **Seq. No.:** 41 **A/S Pos:** 423

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:14:02

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,262.5	99.10	0.448	%			%	0.45 %
Y 324.227A	1,389,798.1	99.89	0.293	%			%	0.29 %

Ag 328.068	-2,466.0	-0.0010	0.00054	mg/L	-0.0010	0.00054	mg/L	53.40 %
Al 308.215	314,521.6	239	0.5	mg/L	239	0.5	mg/L	0.20 %
As 188.979	-74.6	0.0540	0.00680	mg/L	0.0540	0.00680	mg/L	12.61 %
Ba 233.527	94,691.3	0.7732	0.00249	mg/L	0.7732	0.00249	mg/L	0.32 %
Be 313.107	33,859.6	0.0051	0.00001	mg/L	0.0051	0.00001	mg/L	0.21 %
B 208.959	704.3	0.0405	0.00093	mg/L	0.0405	0.00093	mg/L	2.30 %
Ca 317.933	638,607.1	21.78	0.047	mg/L	21.78	0.047	mg/L	0.21 %
Cd 228.802	14.1	0.0003	0.00065	mg/L	0.0003	0.00065	mg/L	189.00 %
Co 228.616	3,944.2	0.0578	0.00136	mg/L	0.0578	0.00136	mg/L	2.35 %
Cr 267.716	47,870.4	0.3800	0.00457	mg/L	0.3800	0.00457	mg/L	1.20 %
Cu 324.754	43,347.3	0.1686	0.00034	mg/L	0.1686	0.00034	mg/L	0.20 %
Fe 273.955	3,351,488.0	133.1	0.26	mg/L	133.1	0.26	mg/L	0.20 %
K 766.491R	31,863.7	13.6	0.10	mg/L	13.6	0.10	mg/L	0.74 %
Li 670.781R	9,399.1	0.134	0.0020	mg/L	0.134	0.0020	mg/L	1.46 %
Mg 279.079R	91,902.5	37.9	0.11	mg/L	37.9	0.11	mg/L	0.29 %
Mn 257.610	1,003,437.9	1.370	0.0034	mg/L	1.370	0.0034	mg/L	0.25 %
Mo 202.030	-15.6	0.0101	0.00064	mg/L	0.0101	0.00064	mg/L	6.34 %
Na 589.592R	11,045.3	1.09	0.013	mg/L	1.09	0.013	mg/L	1.22 %
Ni 231.604	10,038.9	0.181	0.0025	mg/L	0.181	0.0025	mg/L	1.38 %
Pb 220.353	518.0	0.1380	0.00705	mg/L	0.1380	0.00705	mg/L	5.10 %
Sb 206.833	265.3	-0.0197	0.00295	mg/L	-0.0197	0.00295	mg/L	14.95 %
Se 196.026	-18.2	-0.0045	0.00671	mg/L	-0.0045	0.00671	mg/L	149.44 %
Sn 189.933	29.1	0.0019	0.00234	mg/L	0.0019	0.00234	mg/L	123.87 %
Sr 421.539R	150,358.6	0.1968	0.00031	mg/L	0.1968	0.00031	mg/L	0.16 %
Ti 337.280	4,956,258.8	7.990	0.0100	mg/L	7.990	0.0100	mg/L	0.12 %
Tl 190.800	-235.4	0.0030	0.00384	mg/L	0.0030	0.00384	mg/L	127.25 %
V 292.402	74,797.5	0.3271	0.00042	mg/L	0.3271	0.00042	mg/L	0.13 %
Zn 206.191	26,973.2	0.4711	0.00754	mg/L	0.4711	0.00754	mg/L	1.60 %

Mean Data

ID: b302882-17 **Seq. No.:** 42 **A/S Pos:** 424

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:15:00

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	233,515.7	100.9	0.39	%			%	0.39 %
Y 324.227A	1,418,196.5	101.9	0.46	%			%	0.45 %
Ag 328.068	-2,961.1	-0.0026	0.00043	mg/L	-0.0026	0.00043	mg/L	16.11 %
Al 308.215	306,432.7	233	0.5	mg/L	233	0.5	mg/L	0.20 %
As 188.979	-75.5	0.0528	0.01243	mg/L	0.0528	0.01243	mg/L	23.51 %
Ba 233.527	94,638.7	0.7725	0.00163	mg/L	0.7725	0.00163	mg/L	0.21 %
Be 313.107	35,682.0	0.0058	0.00002	mg/L	0.0058	0.00002	mg/L	0.38 %
B 208.959	446.0	0.0163	0.00131	mg/L	0.0163	0.00131	mg/L	8.08 %
Ca 317.933	552,743.5	18.85	0.041	mg/L	18.85	0.041	mg/L	0.22 %
Cd 228.802	-42.3	-0.0010	0.00012	mg/L	-0.0010	0.00012	mg/L	11.80 %
Co 228.616	3,643.7	0.0538	0.00192	mg/L	0.0538	0.00192	mg/L	3.57 %
Cr 267.716	46,332.3	0.3679	0.00528	mg/L	0.3679	0.00528	mg/L	1.43 %
Cu 324.754	27,640.2	0.1075	0.00048	mg/L	0.1075	0.00048	mg/L	0.44 %
Fe 273.955	3,475,549.8	138.0	0.20	mg/L	138.0	0.20	mg/L	0.15 %
K 766.491R	24,772.2	10.6	0.07	mg/L	10.6	0.07	mg/L	0.71 %
Li 670.781R	8,046.5	0.115	0.0015	mg/L	0.115	0.0015	mg/L	1.28 %
Mg 279.079R	73,137.3	30.2	0.07	mg/L	30.2	0.07	mg/L	0.24 %
Mn 257.610	852,966.7	1.164	0.0018	mg/L	1.164	0.0018	mg/L	0.16 %
Mo 202.030	-34.7	0.0090	0.00146	mg/L	0.0090	0.00146	mg/L	16.20 %
Na 589.592R	8,968.8	0.886	0.0064	mg/L	0.886	0.0064	mg/L	0.73 %
Ni 231.604	7,957.0	0.144	0.0017	mg/L	0.144	0.0017	mg/L	1.16 %
Pb 220.353	296.4	0.1154	0.00205	mg/L	0.1154	0.00205	mg/L	1.78 %
Sb 206.833	227.8	-0.0313	0.00585	mg/L	-0.0313	0.00585	mg/L	18.67 %
Se 196.026	-76.4	-0.0207	0.00376	mg/L	-0.0207	0.00376	mg/L	18.13 %
Sn 189.933	50.1	0.0039	0.00168	mg/L	0.0039	0.00168	mg/L	42.55 %
Sr 421.539R	176,474.6	0.2309	0.00068	mg/L	0.2309	0.00068	mg/L	0.29 %
Ti 337.280	4,309,647.8	6.947	0.0062	mg/L	6.947	0.0062	mg/L	0.09 %

Tl 190.800	-194.3	0.0129	0.00739	mg/L	0.0129	0.00739	mg/L	57.18	%
V 292.402	85,418.2	0.3760	0.00088	mg/L	0.3760	0.00088	mg/L	0.23	%
Zn 206.191	19,438.4	0.3409	0.00455	mg/L	0.3409	0.00455	mg/L	1.33	%

Mean Data

ID: b302882-18 **Seq. No.:** 43 **A/S Pos:** 425

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:16:04

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	225,808.0	97.61	0.201	%			%	0.21	%
Y 324.227A	1,346,640.2	96.79	0.205	%			%	0.21	%
Ag 328.068	242.6	0.0139	0.00039	mg/L	0.0139	0.00039	mg/L	2.84	%
Al 308.215	189,268.0	144	0.3	mg/L	144	0.3	mg/L	0.24	%
As 188.979	-61.1	0.0674	0.00464	mg/L	0.0674	0.00464	mg/L	6.89	%
Ba 233.527	172,838.0	1.413	0.0076	mg/L	1.413	0.0076	mg/L	0.54	%
Be 313.107	24,131.8	0.0044	0.00004	mg/L	0.0044	0.00004	mg/L	0.87	%
B 208.959	1,299.0	0.1082	0.00014	mg/L	0.1082	0.00014	mg/L	0.13	%
Ca 317.933	6,402,372.6	218.4	2.13	mg/L	218.4	2.13	mg/L	0.98	%
Cd 228.802	1,317.0	0.0307	0.00025	mg/L	0.0307	0.00025	mg/L	0.83	%
Co 228.616	5,248.9	0.0940	0.00023	mg/L	0.0940	0.00023	mg/L	0.24	%
Cr 267.716	37,076.4	0.2933	0.00173	mg/L	0.2933	0.00173	mg/L	0.59	%
Cu 324.754	347,298.7	1.326	0.0071	mg/L	1.326	0.0071	mg/L	0.54	%
Fe 273.955	5,238,080.9	208.0	0.41	mg/L	208.0	0.41	mg/L	0.20	%
K 766.491R	31,037.0	13.3	0.04	mg/L	13.3	0.04	mg/L	0.27	%
Li 670.781R	4,981.3	0.071	0.0035	mg/L	0.071	0.0035	mg/L	4.90	%
Mg 279.079R	53,905.8	22.2	0.09	mg/L	22.2	0.09	mg/L	0.41	%
Mn 257.610	2,684,756.8	3.665	0.0076	mg/L	3.665	0.0076	mg/L	0.21	%
Mo 202.030	260.5	0.0196	0.00108	mg/L	0.0196	0.00108	mg/L	5.52	%
Na 589.592R	30,518.7	3.02	0.011	mg/L	3.02	0.011	mg/L	0.38	%
Ni 231.604	9,260.5	0.167	0.0008	mg/L	0.167	0.0008	mg/L	0.50	%
Pb 220.353	31,301.0	2.921	0.0074	mg/L	2.921	0.0074	mg/L	0.25	%
Sb 206.833	552.4	0.0975	0.00779	mg/L	0.0975	0.00779	mg/L	7.99	%
Se 196.026	-108.6	-0.0009	0.00550	mg/L	-0.0009	0.00550	mg/L	605.58	%
Sn 189.933	2,243.4	0.2000	0.00205	mg/L	0.2000	0.00205	mg/L	1.02	%
Sr 421.539R	648,995.3	0.8493	0.00775	mg/L	0.8493	0.00775	mg/L	0.91	%
Ti 337.280	1,463,037.2	2.358	0.0035	mg/L	2.358	0.0035	mg/L	0.15	%
Tl 190.800	-248.6	-0.0016	0.00215	mg/L	-0.0016	0.00215	mg/L	135.63	%
V 292.402	58,996.6	0.2597	0.00101	mg/L	0.2597	0.00101	mg/L	0.39	%
Zn 206.191	419,143.1	7.226	0.0369	mg/L	7.226	0.0369	mg/L	0.51	%

Mean Data

ID: rinse **Seq. No.:** 44 **A/S Pos:** 426

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:18:04

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	230,135.8	99.48	0.107	%			%	0.11	%
Y 324.227A	1,373,447.7	98.71	0.678	%			%	0.69	%
Ag 328.068	195.5	0.0010	0.00050	mg/L	0.0010	0.00050	mg/L	52.00	%
Al 308.215	-13.8	-0.011	0.0048	mg/L	-0.011	0.0048	mg/L	45.10	%
As 188.979	11.1	0.0050	0.00119	mg/L	0.0050	0.00119	mg/L	23.73	%
Ba 233.527	-35.1	-0.0003	0.00017	mg/L	-0.0003	0.00017	mg/L	56.95	%
Be 313.107	295.7	0.0001	0.00002	mg/L	0.0001	0.00002	mg/L	24.56	%
B 208.959	22.6	0.0021	0.00118	mg/L	0.0021	0.00118	mg/L	56.73	%
Ca 317.933	763.6	0.0260	0.00407	mg/L	0.0260	0.00407	mg/L	15.61	%
Cd 228.802	28.0	0.0007	0.00022	mg/L	0.0007	0.00022	mg/L	33.04	%
Co 228.616	-35.0	-0.0007	0.00005	mg/L	-0.0007	0.00005	mg/L	7.75	%
Cr 267.716	-4.6	0.0000	0.00016	mg/L	0.0000	0.00016	mg/L	428.38	%
Cu 324.754	-7.5	0.0000	0.00035	mg/L	0.0000	0.00035	mg/L	1,253.87	%
Fe 273.955	823.4	0.0327	0.00100	mg/L	0.0327	0.00100	mg/L	3.07	%
K 766.491R	366.6	0.157	0.0335	mg/L	0.157	0.0335	mg/L	21.38	%
Li 670.781R	-250.0	-0.004	0.0010	mg/L	-0.004	0.0010	mg/L	26.88	%

Mg 279.079R	86.0	0.035	0.0192	mg/L	0.035	0.0192	mg/L	54.05 %
Mn 257.610	172.3	0.0002	0.00009	mg/L	0.0002	0.00009	mg/L	38.19 %
Mo 202.030	30.6	0.0016	0.00048	mg/L	0.0016	0.00048	mg/L	29.12 %
Na 589.592R	39.1	0.004	0.0106	mg/L	0.004	0.0106	mg/L	274.32 %
Ni 231.604	64.9	0.001	0.0001	mg/L	0.001	0.0001	mg/L	6.56 %
Pb 220.353	60.7	0.0055	0.00098	mg/L	0.0055	0.00098	mg/L	17.67 %
Sb 206.833	-18.4	-0.0066	0.00052	mg/L	-0.0066	0.00052	mg/L	7.83 %
Se 196.026	-14.0	-0.0047	0.00445	mg/L	-0.0047	0.00445	mg/L	95.69 %
Sn 189.933	-2.9	-0.0003	0.00094	mg/L	-0.0003	0.00094	mg/L	349.79 %
Sr 421.539R	78.3	0.0001	0.00025	mg/L	0.0001	0.00025	mg/L	246.22 %
Ti 337.280	791.5	0.0013	0.00044	mg/L	0.0013	0.00044	mg/L	34.28 %
Tl 190.800	23.4	0.0066	0.00340	mg/L	0.0066	0.00340	mg/L	51.61 %
V 292.402	74.3	0.0003	0.00020	mg/L	0.0003	0.00020	mg/L	56.95 %
Zn 206.191	395.5	0.0068	0.00141	mg/L	0.0068	0.00141	mg/L	20.69 %

Mean Data

ID: 3F26005-blk1 **Seq. No.:** 45 **A/S Pos:** 427

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:19:59

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	223,937.6	96.80	0.868	%			%	0.90 %
Y 324.227A	1,366,024.5	98.18	0.460	%			%	0.47 %
Ag 328.068	192.1	0.0009	0.00023	mg/L	0.0009	0.00023	mg/L	25.13 %
Al 308.215	48.6	0.037	0.0259	mg/L	0.037	0.0259	mg/L	70.14 %
As 188.979	-3.5	-0.0016	0.00134	mg/L	-0.0016	0.00134	mg/L	85.85 %
Ba 233.527	-15.9	-0.0001	0.00009	mg/L	-0.0001	0.00009	mg/L	68.65 %
Be 313.107	-106.6	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	95.31 %
B 208.959	35.2	0.0033	0.00044	mg/L	0.0033	0.00044	mg/L	13.44 %
Ca 317.933	1,241.1	0.0423	0.00352	mg/L	0.0423	0.00352	mg/L	8.32 %
Cd 228.802	18.3	0.0004	0.00017	mg/L	0.0004	0.00017	mg/L	39.81 %
Co 228.616	-25.1	-0.0005	0.00002	mg/L	-0.0005	0.00002	mg/L	4.39 %
Cr 267.716	38.0	0.0003	0.00014	mg/L	0.0003	0.00014	mg/L	47.82 %
Cu 324.754	46.5	0.0002	0.00009	mg/L	0.0002	0.00009	mg/L	51.99 %
Fe 273.955	303.8	0.0121	0.00058	mg/L	0.0121	0.00058	mg/L	4.79 %
K 766.491R	309.5	0.132	0.0344	mg/L	0.132	0.0344	mg/L	25.96 %
Li 670.781R	-44.1	-0.001	0.0027	mg/L	-0.001	0.0027	mg/L	425.37 %
Mg 279.079R	32.5	0.013	0.0143	mg/L	0.013	0.0143	mg/L	106.85 %
Mn 257.610	155.8	0.0002	0.00003	mg/L	0.0002	0.00003	mg/L	15.41 %
Mo 202.030	31.8	0.0017	0.00027	mg/L	0.0017	0.00027	mg/L	15.65 %
Na 589.592R	300.9	0.030	0.0049	mg/L	0.030	0.0049	mg/L	16.52 %
Ni 231.604	42.2	0.001	0.0003	mg/L	0.001	0.0003	mg/L	40.20 %
Pb 220.353	23.5	0.0022	0.00068	mg/L	0.0022	0.00068	mg/L	31.36 %
Sb 206.833	-11.9	-0.0042	0.00033	mg/L	-0.0042	0.00033	mg/L	7.82 %
Se 196.026	2.1	0.0007	0.00118	mg/L	0.0007	0.00118	mg/L	173.23 %
Sn 189.933	105.5	0.0098	0.00066	mg/L	0.0098	0.00066	mg/L	6.77 %
Sr 421.539R	40.2	0.0001	0.00003	mg/L	0.0001	0.00003	mg/L	65.44 %
Ti 337.280	340.0	0.0005	0.00010	mg/L	0.0005	0.00010	mg/L	18.22 %
Tl 190.800	10.4	0.0029	0.00339	mg/L	0.0029	0.00339	mg/L	115.86 %
V 292.402	2.7	0.0000	0.00030	mg/L	0.0000	0.00030	mg/L	1,111.92 %
Zn 206.191	320.4	0.0055	0.00037	mg/L	0.0055	0.00037	mg/L	6.70 %

Mean Data

ID: 3F26005-bs1 **Seq. No.:** 46 **A/S Pos:** 428

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:21:54

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	221,354.6	95.69	0.415	%			%	0.43 %
Y 324.227A	1,330,254.1	95.61	0.863	%			%	0.90 %
Ag 328.068	19,563.7	0.0991	0.00081	mg/L	0.0991	0.00081	mg/L	0.82 %
Al 308.215	6,652.3	5.05	0.088	mg/L	5.05	0.088	mg/L	1.75 %
As 188.979	1,041.1	0.4739	0.00410	mg/L	0.4739	0.00410	mg/L	0.86 %

Ba 233.527	58,003.1	0.4785	0.00069	mg/L	0.4785	0.00069	mg/L	0.15 %
Be 313.107	221,256.9	0.0488	0.00009	mg/L	0.0488	0.00009	mg/L	0.19 %
B 208.959	24,670.9	2.357	0.0202	mg/L	2.357	0.0202	mg/L	0.86 %
Ca 317.933	144,412.0	4.926	0.0463	mg/L	4.926	0.0463	mg/L	0.94 %
Cd 228.802	2,130.5	0.0502	0.00049	mg/L	0.0502	0.00049	mg/L	0.98 %
Co 228.616	24,610.5	0.4954	0.00458	mg/L	0.4954	0.00458	mg/L	0.93 %
Cr 267.716	62,469.6	0.4965	0.00037	mg/L	0.4965	0.00037	mg/L	0.08 %
Cu 324.754	130,389.5	0.4993	0.00102	mg/L	0.4993	0.00102	mg/L	0.20 %
Fe 273.955	62,257.9	2.470	0.0048	mg/L	2.470	0.0048	mg/L	0.19 %
K 766.491R	55,944.9	23.9	0.05	mg/L	23.9	0.05	mg/L	0.20 %
Li 670.781R	34,530.5	0.494	0.0012	mg/L	0.494	0.0012	mg/L	0.25 %
Mg 279.079R	11,601.2	4.78	0.036	mg/L	4.78	0.036	mg/L	0.75 %
Mn 257.610	357,201.2	0.4877	0.00098	mg/L	0.4877	0.00098	mg/L	0.20 %
Mo 202.030	9,003.2	0.4834	0.00385	mg/L	0.4834	0.00385	mg/L	0.80 %
Na 589.592R	245,810.2	24.3	0.04	mg/L	24.3	0.04	mg/L	0.16 %
Ni 231.604	27,267.7	0.493	0.0045	mg/L	0.493	0.0045	mg/L	0.92 %
Pb 220.353	5,316.0	0.4887	0.00305	mg/L	0.4887	0.00305	mg/L	0.62 %
Sb 206.833	1,361.1	0.4776	0.00804	mg/L	0.4776	0.00804	mg/L	1.68 %
Se 196.026	1,447.6	0.4802	0.00756	mg/L	0.4802	0.00756	mg/L	1.57 %
Sn 189.933	5,277.2	0.4894	0.00432	mg/L	0.4894	0.00432	mg/L	0.88 %
Sr 421.539R	373,904.7	0.4893	0.00076	mg/L	0.4893	0.00076	mg/L	0.15 %
Ti 337.280	154,819.9	0.2496	0.00031	mg/L	0.2496	0.00031	mg/L	0.13 %
Tl 190.800	1,776.8	0.4983	0.00348	mg/L	0.4983	0.00348	mg/L	0.70 %
V 292.402	111,343.3	0.5087	0.00039	mg/L	0.5087	0.00039	mg/L	0.08 %
Zn 206.191	29,102.4	0.5038	0.00435	mg/L	0.5038	0.00435	mg/L	0.86 %

Mean Data

ID: 3F26005-bsd1 **Seq. No.:** 47 **A/S Pos:** 429

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:23:49

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	222,667.4	96.25	0.522	%			%	0.54 %
Y 324.227A	1,318,028.3	94.73	0.546	%			%	0.58 %
Ag 328.068	19,519.8	0.0988	0.00055	mg/L	0.0988	0.00055	mg/L	0.56 %
Al 308.215	6,640.7	5.04	0.067	mg/L	5.04	0.067	mg/L	1.34 %
As 188.979	1,036.8	0.4719	0.00803	mg/L	0.4719	0.00803	mg/L	1.70 %
Ba 233.527	57,814.1	0.4769	0.00025	mg/L	0.4769	0.00025	mg/L	0.05 %
Be 313.107	220,196.2	0.0486	0.00004	mg/L	0.0486	0.00004	mg/L	0.09 %
B 208.959	24,666.7	2.357	0.0198	mg/L	2.357	0.0198	mg/L	0.84 %
Ca 317.933	144,623.7	4.933	0.0389	mg/L	4.933	0.0389	mg/L	0.79 %
Cd 228.802	2,123.6	0.0500	0.00032	mg/L	0.0500	0.00032	mg/L	0.64 %
Co 228.616	24,621.5	0.4956	0.00418	mg/L	0.4956	0.00418	mg/L	0.84 %
Cr 267.716	62,250.0	0.4947	0.00101	mg/L	0.4947	0.00101	mg/L	0.20 %
Cu 324.754	129,722.1	0.4967	0.00088	mg/L	0.4967	0.00088	mg/L	0.18 %
Fe 273.955	61,974.9	2.459	0.0052	mg/L	2.459	0.0052	mg/L	0.21 %
K 766.491R	57,032.8	24.4	0.08	mg/L	24.4	0.08	mg/L	0.35 %
Li 670.781R	34,636.3	0.495	0.0019	mg/L	0.495	0.0019	mg/L	0.39 %
Mg 279.079R	11,626.3	4.79	0.040	mg/L	4.79	0.040	mg/L	0.84 %
Mn 257.610	355,427.3	0.4852	0.00062	mg/L	0.4852	0.00062	mg/L	0.13 %
Mo 202.030	9,013.3	0.4839	0.00401	mg/L	0.4839	0.00401	mg/L	0.83 %
Na 589.592R	244,373.5	24.1	0.03	mg/L	24.1	0.03	mg/L	0.11 %
Ni 231.604	27,271.5	0.493	0.0040	mg/L	0.493	0.0040	mg/L	0.80 %
Pb 220.353	5,307.9	0.4880	0.00343	mg/L	0.4880	0.00343	mg/L	0.70 %
Sb 206.833	1,357.2	0.4763	0.00743	mg/L	0.4763	0.00743	mg/L	1.56 %
Se 196.026	1,446.7	0.4799	0.00360	mg/L	0.4799	0.00360	mg/L	0.75 %
Sn 189.933	5,300.4	0.4916	0.00415	mg/L	0.4916	0.00415	mg/L	0.84 %
Sr 421.539R	371,932.9	0.4867	0.00053	mg/L	0.4867	0.00053	mg/L	0.11 %
Ti 337.280	154,105.7	0.2484	0.00062	mg/L	0.2484	0.00062	mg/L	0.25 %
Tl 190.800	1,784.9	0.5006	0.00558	mg/L	0.5006	0.00558	mg/L	1.12 %
V 292.402	110,747.0	0.5060	0.00108	mg/L	0.5060	0.00108	mg/L	0.21 %
Zn 206.191	29,052.5	0.5029	0.00376	mg/L	0.5029	0.00376	mg/L	0.75 %

Mean Data

ID: b302864-02 **Seq. No.:** 48 **A/S Pos:** 430

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:25:46

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,069.7	99.02	0.399	%			%	0.40 %
Y 324.227A	1,379,220.5	99.13	1.091	%			%	1.10 %
Ag 328.068	-1,571.6	0.0003	0.00102	mg/L	0.0003	0.00102	mg/L	383.16 %
Al 308.215	180,701.4	137	0.0	mg/L	137	0.0	mg/L	0.03 %
As 188.979	-51.6	0.0349	0.00222	mg/L	0.0349	0.00222	mg/L	6.37 %
Ba 233.527	96,675.4	0.7909	0.00107	mg/L	0.7909	0.00107	mg/L	0.14 %
Be 313.107	18,972.6	0.0033	0.00004	mg/L	0.0033	0.00004	mg/L	1.05 %
B 208.959	517.7	0.0339	0.00171	mg/L	0.0339	0.00171	mg/L	5.05 %
Ca 317.933	458,962.0	15.66	0.019	mg/L	15.66	0.019	mg/L	0.12 %
Cd 228.802	621.8	0.0146	0.00020	mg/L	0.0146	0.00020	mg/L	1.38 %
Co 228.616	2,110.1	0.0336	0.00057	mg/L	0.0336	0.00057	mg/L	1.71 %
Cr 267.716	29,649.0	0.2351	0.00069	mg/L	0.2351	0.00069	mg/L	0.29 %
Cu 324.754	425,826.2	1.629	0.0008	mg/L	1.629	0.0008	mg/L	0.05 %
Fe 273.955	2,740,988.1	108.9	0.10	mg/L	108.9	0.10	mg/L	0.09 %
K 766.491R	10,067.9	4.30	0.006	mg/L	4.30	0.006	mg/L	0.14 %
Li 670.781R	3,941.8	0.056	0.0008	mg/L	0.056	0.0008	mg/L	1.49 %
Mg 279.079R	33,917.8	14.0	0.01	mg/L	14.0	0.01	mg/L	0.05 %
Mn 257.610	980,380.0	1.338	0.0019	mg/L	1.338	0.0019	mg/L	0.14 %
Mo 202.030	85.5	0.0115	0.00029	mg/L	0.0115	0.00029	mg/L	2.56 %
Na 589.592R	6,260.2	0.618	0.0130	mg/L	0.618	0.0130	mg/L	2.10 %
Ni 231.604	6,583.6	0.119	0.0011	mg/L	0.119	0.0011	mg/L	0.89 %
Pb 220.353	19,564.1	1.841	0.0204	mg/L	1.841	0.0204	mg/L	1.11 %
Sb 206.833	202.3	-0.0010	0.00047	mg/L	-0.0010	0.00047	mg/L	48.03 %
Se 196.026	-32.7	0.0003	0.00386	mg/L	0.0003	0.00386	mg/L	1,300.35 %
Sn 189.933	319.2	0.0290	0.00030	mg/L	0.0290	0.00030	mg/L	1.03 %
Sr 421.539R	170,417.5	0.2230	0.00139	mg/L	0.2230	0.00139	mg/L	0.62 %
Ti 337.280	1,567,300.5	2.527	0.0076	mg/L	2.527	0.0076	mg/L	0.30 %
Tl 190.800	-147.0	0.0036	0.00515	mg/L	0.0036	0.00515	mg/L	142.21 %
V 292.402	32,581.0	0.1425	0.00017	mg/L	0.1425	0.00017	mg/L	0.12 %
Zn 206.191	84,067.8	1.452	0.0032	mg/L	1.452	0.0032	mg/L	0.22 %

Mean Data

ID: CVS **Seq. No.:** 49 **A/S Pos:** 3

2013/06/27 11:28:56 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:27:44

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,645.4	97.54	0.769	%				0.79 %
Y 324.227A	1,334,648.5	95.92	1.000	%				1.04 %
Ag 328.068	101,057.0	0.4947	0.00146	mg/L	0.4947			0.30 %
2013/06/27 11:28:55 QC value within limits for Ag 328.068 Recovery = 98.94%								
Al 308.215	6,434.9	4.88	0.081	mg/L	4.88			1.66 %
2013/06/27 11:28:55 QC value within limits for Al 308.215 Recovery = 97.61%								
As 188.979	1,037.5	0.4722	0.00523	mg/L	0.4722			1.11 %
2013/06/27 11:28:55 QC value within limits for As 188.979 Recovery = 94.44%								
Ba 233.527	57,890.3	0.4775	0.00061	mg/L	0.4775			0.13 %
2013/06/27 11:28:55 QC value within limits for Ba 233.527 Recovery = 95.50%								
Be 313.107	218,450.7	0.0482	0.00007	mg/L	0.0482			0.14 %
2013/06/27 11:28:55 QC value within limits for Be 313.107 Recovery = 96.36%								
B 208.959	24,799.0	2.370	0.0277	mg/L	2.370			1.17 %
2013/06/27 11:28:55 QC value within limits for B 208.959 Recovery = 94.78%								
Ca 317.933	140,120.5	4.780	0.0727	mg/L	4.780			1.52 %
2013/06/27 11:28:55 QC value within limits for Ca 317.933 Recovery = 95.59%								
Cd 228.802	2,108.2	0.0497	0.00058	mg/L	0.0497			1.17 %
2013/06/27 11:28:55 QC value within limits for Cd 228.802 Recovery = 99.30%								
Co 228.616	24,236.7	0.4879	0.00536	mg/L	0.4879			1.10 %

2013/06/27 11:28:55 QC value within limits for Co 228.616 Recovery = 97.57%

Cr 267.716	61,652.3	0.4900	0.00077	mg/L	0.4900	0.16 %

2013/06/27 11:28:55 QC value within limits for Cr 267.716 Recovery = 98.00%

Cu 324.754	128,046.8	0.4903	0.00241	mg/L	0.4903	0.49 %

2013/06/27 11:28:55 QC value within limits for Cu 324.754 Recovery = 98.06%

Fe 273.955	61,339.8	2.433	0.0027	mg/L	2.433	0.11 %

2013/06/27 11:28:55 QC value within limits for Fe 273.955 Recovery = 97.34%

K 766.491R	56,661.5	24.2	0.04	mg/L	24.2	0.15 %

2013/06/27 11:28:55 QC value within limits for K 766.491R Recovery = 96.90%

Li 670.781R	33,977.8	0.486	0.0011	mg/L	0.486	0.22 %

2013/06/27 11:28:55 QC value within limits for Li 670.781R Recovery = 97.15%

Mg 279.079R	11,430.2	4.71	0.048	mg/L	4.71	1.03 %

2013/06/27 11:28:55 QC value within limits for Mg 279.079R Recovery = 94.28%

Mn 257.610	355,415.6	0.4852	0.00066	mg/L	0.4852	0.14 %

2013/06/27 11:28:55 QC value within limits for Mn 257.610 Recovery = 97.04%

Mo 202.030	9,043.6	0.4856	0.00542	mg/L	0.4856	1.12 %

2013/06/27 11:28:55 QC value within limits for Mo 202.030 Recovery = 97.11%

Na 589.592R	243,643.4	24.1	0.05	mg/L	24.1	0.20 %

2013/06/27 11:28:55 QC value within limits for Na 589.592R Recovery = 96.28%

Ni 231.604	26,828.0	0.485	0.0052	mg/L	0.485	1.07 %

2013/06/27 11:28:55 QC value within limits for Ni 231.604 Recovery = 96.93%

Pb 220.353	5,242.0	0.4819	0.00671	mg/L	0.4819	1.39 %

2013/06/27 11:28:55 QC value within limits for Pb 220.353 Recovery = 96.38%

Sb 206.833	1,349.9	0.4736	0.00375	mg/L	0.4736	0.79 %

2013/06/27 11:28:55 QC value within limits for Sb 206.833 Recovery = 94.72%

Se 196.026	1,417.9	0.4703	0.00857	mg/L	0.4703	1.82 %

2013/06/27 11:28:55 QC value within limits for Se 196.026 Recovery = 94.06%

Sn 189.933	5,118.7	0.4747	0.00496	mg/L	0.4747	1.04 %

2013/06/27 11:28:55 QC value within limits for Sn 189.933 Recovery = 94.95%

Sr 421.539R	372,386.1	0.4873	0.00069	mg/L	0.4873	0.14 %

2013/06/27 11:28:55 QC value within limits for Sr 421.539R Recovery = 97.46%

Ti 337.280	153,389.4	0.2473	0.00026	mg/L	0.2473	0.10 %

2013/06/27 11:28:55 QC value within limits for Ti 337.280 Recovery = 98.91%

Tl 190.800	1,760.8	0.4938	0.00610	mg/L	0.4938	1.24 %

2013/06/27 11:28:55 QC value within limits for Tl 190.800 Recovery = 98.76%

V 292.402	109,011.4	0.4982	0.00085	mg/L	0.4982	0.17 %

2013/06/27 11:28:55 QC value within limits for V 292.402 Recovery = 99.63%

Zn 206.191	27,155.6	0.4702	0.00532	mg/L	0.4702	1.13 %

2013/06/27 11:28:55 QC value within limits for Zn 206.191 Recovery = 94.04%

Mean Data

ID: BLK **Seq. No.:** 50 **A/S Pos:** 1

2013/06/27 11:30:52 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:29:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	227,663.5	98.41	1.091	%				1.11 %
Y 324.227A	1,380,384.8	99.21	0.293	%				0.29 %
Ag 328.068	244.9	0.0012	0.00046	mg/L	0.0012			38.71 %

2013/06/27 11:30:50 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	-21.7	-0.017	0.0205	mg/L	-0.017	123.68 %

2013/06/27 11:30:50 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	12.3	0.0056	0.00157	mg/L	0.0056	28.19 %

2013/06/27 11:30:50 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-43.6	-0.0004	0.00005	mg/L	-0.0004	13.61 %

2013/06/27 11:30:50 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	259.5	0.0001	0.00002	mg/L	0.0001	43.37 %

2013/06/27 11:30:50 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	133.4	0.0128	0.00278	mg/L	0.0128	21.72 %

2013/06/27 11:30:50 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	38.4	0.0013	0.00127	mg/L	0.0013	97.05 %

2013/06/27 11:30:50 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	25.4	0.0006	0.00035	mg/L	0.0006	58.57 %
2013/06/27 11:30:51	QC value within limits for Cd 228.802 Recovery = Not calculated					
Co 228.616	-37.9	-0.0008	0.00016	mg/L	-0.0008	21.67 %
2013/06/27 11:30:51	QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716	-15.6	-0.0001	0.00015	mg/L	-0.0001	122.38 %
2013/06/27 11:30:51	QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.754	-111.6	-0.0004	0.00014	mg/L	-0.0004	33.59 %
2013/06/27 11:30:51	QC value within limits for Cu 324.754 Recovery = Not calculated					
Fe 273.955	195.1	0.0077	0.00060	mg/L	0.0077	7.77 %
2013/06/27 11:30:51	QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.491R	266.7	0.114	0.0152	mg/L	0.114	13.33 %
2013/06/27 11:30:50	QC value within limits for K 766.491R Recovery = Not calculated					
Li 670.781R	-211.8	-0.003	0.0030	mg/L	-0.003	98.87 %
2013/06/27 11:30:50	QC value within limits for Li 670.781R Recovery = Not calculated					
Mg 279.079R	57.2	0.024	0.0088	mg/L	0.024	37.13 %
2013/06/27 11:30:50	QC value within limits for Mg 279.079R Recovery = Not calculated					
Mn 257.610	55.3	0.0001	0.00006	mg/L	0.0001	73.71 %
2013/06/27 11:30:51	QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.030	37.4	0.0020	0.00057	mg/L	0.0020	28.36 %
2013/06/27 11:30:51	QC value within limits for Mo 202.030 Recovery = Not calculated					
Na 589.592R	110.4	0.011	0.0286	mg/L	0.011	262.41 %
2013/06/27 11:30:50	QC value within limits for Na 589.592R Recovery = Not calculated					
Ni 231.604	35.6	0.001	0.0003	mg/L	0.001	42.14 %
2013/06/27 11:30:51	QC value within limits for Ni 231.604 Recovery = Not calculated					
Pb 220.353	58.0	0.0053	0.00051	mg/L	0.0053	9.54 %
2013/06/27 11:30:51	QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.833	-16.9	-0.0060	0.00211	mg/L	-0.0060	34.94 %
2013/06/27 11:30:51	QC value within limits for Sb 206.833 Recovery = Not calculated					
Se 196.026	-4.0	-0.0013	0.00330	mg/L	-0.0013	246.95 %
2013/06/27 11:30:51	QC value within limits for Se 196.026 Recovery = Not calculated					
Sn 189.933	4.9	0.0005	0.00133	mg/L	0.0005	290.79 %
2013/06/27 11:30:51	QC value within limits for Sn 189.933 Recovery = Not calculated					
Sr 421.539R	58.6	0.0001	0.00003	mg/L	0.0001	33.88 %
2013/06/27 11:30:50	QC value within limits for Sr 421.539R Recovery = Not calculated					
Ti 337.280	265.3	0.0004	0.00014	mg/L	0.0004	32.50 %
2013/06/27 11:30:51	QC value within limits for Ti 337.280 Recovery = Not calculated					
Tl 190.800	21.6	0.0061	0.00215	mg/L	0.0061	35.39 %
2013/06/27 11:30:51	QC value within limits for Tl 190.800 Recovery = Not calculated					
V 292.402	64.5	0.0003	0.00014	mg/L	0.0003	45.39 %
2013/06/27 11:30:51	QC value within limits for V 292.402 Recovery = Not calculated					
Zn 206.191	191.6	0.0033	0.00017	mg/L	0.0033	5.11 %
2013/06/27 11:30:51	QC value within limits for Zn 206.191 Recovery = Not calculated					

Mean Data

ID: b302864-03 **Seq. No.:** 51 **A/S Pos:** 431

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:31:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	230,208.2	99.51	1.130	%			%	1.14 %
Y 324.227A	1,383,964.1	99.47	0.266	%			%	0.27 %
Ag 328.068	-2,651.5	0.0013	0.00017	mg/L	0.0013	0.00017	mg/L	12.98 %
Al 308.215	180,713.8	138	0.1	mg/L	138	0.1	mg/L	0.09 %
As 188.979	-73.0	0.0561	0.00276	mg/L	0.0561	0.00276	mg/L	4.92 %
Ba 233.527	99,198.5	0.8063	0.00363	mg/L	0.8063	0.00363	mg/L	0.45 %
Be 313.107	24,337.2	0.0042	0.00001	mg/L	0.0042	0.00001	mg/L	0.12 %
B 208.959	527.1	0.0345	0.00091	mg/L	0.0345	0.00091	mg/L	2.64 %
Ca 317.933	1,007,198.9	34.36	0.322	mg/L	34.36	0.322	mg/L	0.94 %
Cd 228.802	582.6	0.0137	0.00015	mg/L	0.0137	0.00015	mg/L	1.12 %
Co 228.616	3,189.5	0.0507	0.00018	mg/L	0.0507	0.00018	mg/L	0.36 %
Cr 267.716	33,830.3	0.2683	0.00121	mg/L	0.2683	0.00121	mg/L	0.45 %
Cu 324.754	323,400.7	1.235	0.0049	mg/L	1.235	0.0049	mg/L	0.39 %

Fe 273.955	5,073,136.5	201.5	0.41	mg/L	201.5	0.41	mg/L	0.20 %
K 766.491R	15,446.4	6.60	0.014	mg/L	6.60	0.014	mg/L	0.21 %
Li 670.781R	5,397.1	0.077	0.0019	mg/L	0.077	0.0019	mg/L	2.48 %
Mg 279.079R	44,418.8	18.3	0.01	mg/L	18.3	0.01	mg/L	0.07 %
Mn 257.610	1,121,844.3	1.532	0.0022	mg/L	1.532	0.0022	mg/L	0.14 %
Mo 202.030	189.3	0.0182	0.00085	mg/L	0.0182	0.00085	mg/L	4.64 %
Na 589.592R	7,062.3	0.698	0.0058	mg/L	0.698	0.0058	mg/L	0.82 %
Ni 231.604	8,852.5	0.160	0.0008	mg/L	0.160	0.0008	mg/L	0.53 %
Pb 220.353	31,744.1	2.956	0.0099	mg/L	2.956	0.0099	mg/L	0.33 %
Sb 206.833	266.0	0.0016	0.00316	mg/L	0.0016	0.00316	mg/L	203.15 %
Se 196.026	-145.3	-0.0061	0.00343	mg/L	-0.0061	0.00343	mg/L	56.40 %
Sn 189.933	580.0	0.0525	0.00043	mg/L	0.0525	0.00043	mg/L	0.82 %
Sr 421.539R	207,962.5	0.2721	0.00045	mg/L	0.2721	0.00045	mg/L	0.16 %
Ti 337.280	1,931,311.6	3.113	0.0111	mg/L	3.113	0.0111	mg/L	0.36 %
Tl 190.800	-186.4	0.0043	0.00319	mg/L	0.0043	0.00319	mg/L	74.00 %
V 292.402	44,190.3	0.1921	0.00051	mg/L	0.1921	0.00051	mg/L	0.27 %
Zn 206.191	95,825.5	1.654	0.0050	mg/L	1.654	0.0050	mg/L	0.30 %

Mean Data

ID: b302864-04 **Seq. No.:** 52 **A/S Pos:** 432

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:33:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,141.3	97.76	1.057	%			%	1.08 %
Y 324.227A	1,359,003.5	97.67	0.218	%			%	0.22 %
Ag 328.068	-523.3	-0.0001	0.00057	mg/L	-0.0001	0.00057	mg/L	670.33 %
Al 308.215	79,279.1	60.3	1.01	mg/L	60.3	1.01	mg/L	1.67 %
As 188.979	-5.1	0.0169	0.00378	mg/L	0.0169	0.00378	mg/L	22.43 %
Ba 233.527	32,935.1	0.2699	0.00085	mg/L	0.2699	0.00085	mg/L	0.31 %
Be 313.107	7,426.8	0.0015	0.00003	mg/L	0.0015	0.00003	mg/L	1.93 %
B 208.959	218.4	0.0139	0.00013	mg/L	0.0139	0.00013	mg/L	0.93 %
Ca 317.933	469,859.9	16.03	0.030	mg/L	16.03	0.030	mg/L	0.19 %
Cd 228.802	33.9	0.0008	0.00009	mg/L	0.0008	0.00009	mg/L	11.22 %
Co 228.616	507.9	0.0083	0.00028	mg/L	0.0083	0.00028	mg/L	3.32 %
Cr 267.716	8,966.7	0.0712	0.00029	mg/L	0.0712	0.00029	mg/L	0.41 %
Cu 324.754	9,888.1	0.0375	0.00056	mg/L	0.0375	0.00056	mg/L	1.49 %
Fe 273.955	766,770.5	30.45	0.052	mg/L	30.45	0.052	mg/L	0.17 %
K 766.491R	4,986.1	2.13	0.018	mg/L	2.13	0.018	mg/L	0.86 %
Li 670.781R	3,032.8	0.043	0.0020	mg/L	0.043	0.0020	mg/L	4.63 %
Mg 279.079R	9,220.7	3.80	0.093	mg/L	3.80	0.093	mg/L	2.45 %
Mn 257.610	216,826.2	0.2960	0.00041	mg/L	0.2960	0.00041	mg/L	0.14 %
Mo 202.030	84.0	0.0070	0.00050	mg/L	0.0070	0.00050	mg/L	7.17 %
Na 589.592R	2,849.7	0.282	0.0006	mg/L	0.282	0.0006	mg/L	0.23 %
Ni 231.604	1,201.8	0.022	0.0005	mg/L	0.022	0.0005	mg/L	2.18 %
Pb 220.353	702.0	0.0872	0.00179	mg/L	0.0872	0.00179	mg/L	2.05 %
Sb 206.833	63.3	-0.0051	0.00432	mg/L	-0.0051	0.00432	mg/L	84.23 %
Se 196.026	10.8	0.0027	0.00207	mg/L	0.0027	0.00207	mg/L	77.00 %
Sn 189.933	142.4	0.0126	0.00065	mg/L	0.0126	0.00065	mg/L	5.12 %
Sr 421.539R	72,928.3	0.0954	0.00056	mg/L	0.0954	0.00056	mg/L	0.59 %
Ti 337.280	278,660.0	0.4492	0.00438	mg/L	0.4492	0.00438	mg/L	0.97 %
Tl 190.800	-33.4	0.0077	0.00136	mg/L	0.0077	0.00136	mg/L	17.65 %
V 292.402	18,947.7	0.0846	0.00010	mg/L	0.0846	0.00010	mg/L	0.12 %
Zn 206.191	7,111.5	0.1241	0.00024	mg/L	0.1241	0.00024	mg/L	0.19 %

Mean Data

ID: b302864-05 **Seq. No.:** 53 **A/S Pos:** 433

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:35:31

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	224,755.7	97.16	0.518	%			%	0.53 %
Y 324.227A	1,368,244.2	98.34	1.344	%			%	1.37 %

Ag 328.068	-1,833.8	-0.0015	0.00054	mg/L	-0.0015	0.00054	mg/L	36.42 %
Al 308.215	273,447.9	208	0.5	mg/L	208	0.5	mg/L	0.26 %
As 188.979	-108.1	0.0165	0.00362	mg/L	0.0165	0.00362	mg/L	22.00 %
Ba 233.527	74,052.1	0.6055	0.00058	mg/L	0.6055	0.00058	mg/L	0.10 %
Be 313.107	24,990.7	0.0039	0.00002	mg/L	0.0039	0.00002	mg/L	0.52 %
B 208.959	421.5	0.0168	0.00162	mg/L	0.0168	0.00162	mg/L	9.62 %
Ca 317.933	331,060.4	11.29	0.031	mg/L	11.29	0.031	mg/L	0.27 %
Cd 228.802	-35.0	-0.0008	0.00012	mg/L	-0.0008	0.00012	mg/L	15.42 %
Co 228.616	2,345.3	0.0327	0.00088	mg/L	0.0327	0.00088	mg/L	2.68 %
Cr 267.716	33,338.1	0.2646	0.00083	mg/L	0.2646	0.00083	mg/L	0.31 %
Cu 324.754	19,454.1	0.0762	0.00051	mg/L	0.0762	0.00051	mg/L	0.67 %
Fe 273.955	2,251,472.4	89.42	0.094	mg/L	89.42	0.094	mg/L	0.11 %
K 766.491R	15,754.4	6.74	0.070	mg/L	6.74	0.070	mg/L	1.03 %
Li 670.781R	5,782.8	0.083	0.0022	mg/L	0.083	0.0022	mg/L	2.65 %
Mg 279.079R	54,983.2	22.7	0.05	mg/L	22.7	0.05	mg/L	0.22 %
Mn 257.610	787,419.6	1.075	0.0017	mg/L	1.075	0.0017	mg/L	0.16 %
Mo 202.030	-35.2	0.0074	0.00029	mg/L	0.0074	0.00029	mg/L	4.01 %
Na 589.592R	6,526.6	0.645	0.0210	mg/L	0.645	0.0210	mg/L	3.26 %
Ni 231.604	6,125.5	0.111	0.0011	mg/L	0.111	0.0011	mg/L	0.96 %
Pb 220.353	-64.7	0.0728	0.00023	mg/L	0.0728	0.00023	mg/L	0.32 %
Sb 206.833	217.7	-0.0148	0.00621	mg/L	-0.0148	0.00621	mg/L	41.84 %
Se 196.026	4.1	-0.0060	0.00218	mg/L	-0.0060	0.00218	mg/L	36.62 %
Sn 189.933	64.4	0.0056	0.00160	mg/L	0.0056	0.00160	mg/L	28.85 %
Sr 421.539R	186,616.7	0.2442	0.00052	mg/L	0.2442	0.00052	mg/L	0.21 %
Ti 337.280	3,343,229.8	5.389	0.0128	mg/L	5.389	0.0128	mg/L	0.24 %
Tl 190.800	-191.9	0.0027	0.00235	mg/L	0.0027	0.00235	mg/L	87.52 %
V 292.402	51,379.9	0.2249	0.00076	mg/L	0.2249	0.00076	mg/L	0.34 %
Zn 206.191	11,679.6	0.2068	0.00263	mg/L	0.2068	0.00263	mg/L	1.27 %

Mean Data

ID: b302864-06 **Seq. No.:** 54 **A/S Pos:** 434

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:37:21

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	233,893.2	101.1	0.13	%			%	0.13 %
Y 324.227A	1,389,722.1	99.88	0.795	%			%	0.80 %
Ag 328.068	-1,832.8	-0.0013	0.00050	mg/L	-0.0013	0.00050	mg/L	38.77 %
Al 308.215	248,190.2	189	0.0	mg/L	189	0.0	mg/L	0.01 %
As 188.979	-67.5	0.0303	0.00136	mg/L	0.0303	0.00136	mg/L	4.51 %
Ba 233.527	100,531.8	0.8236	0.00226	mg/L	0.8236	0.00226	mg/L	0.27 %
Be 313.107	25,643.1	0.0048	0.00002	mg/L	0.0048	0.00002	mg/L	0.41 %
B 208.959	350.9	0.0122	0.00056	mg/L	0.0122	0.00056	mg/L	4.57 %
Ca 317.933	392,063.7	13.37	0.007	mg/L	13.37	0.007	mg/L	0.05 %
Cd 228.802	-26.3	-0.0006	0.00016	mg/L	-0.0006	0.00016	mg/L	25.67 %
Co 228.616	2,002.8	0.0317	0.00072	mg/L	0.0317	0.00072	mg/L	2.26 %
Cr 267.716	31,301.9	0.2482	0.00036	mg/L	0.2482	0.00036	mg/L	0.15 %
Cu 324.754	16,353.9	0.0624	0.00013	mg/L	0.0624	0.00013	mg/L	0.20 %
Fe 273.955	2,380,984.6	94.57	0.120	mg/L	94.57	0.120	mg/L	0.13 %
K 766.491R	11,581.1	4.95	0.015	mg/L	4.95	0.015	mg/L	0.30 %
Li 670.781R	5,558.0	0.079	0.0009	mg/L	0.079	0.0009	mg/L	1.11 %
Mg 279.079R	37,807.2	15.6	0.05	mg/L	15.6	0.05	mg/L	0.31 %
Mn 257.610	1,138,313.4	1.554	0.0025	mg/L	1.554	0.0025	mg/L	0.16 %
Mo 202.030	-22.6	0.0074	0.00061	mg/L	0.0074	0.00061	mg/L	8.23 %
Na 589.592R	5,495.9	0.543	0.0009	mg/L	0.543	0.0009	mg/L	0.16 %
Ni 231.604	5,607.4	0.101	0.0008	mg/L	0.101	0.0008	mg/L	0.74 %
Pb 220.353	469.1	0.1144	0.00072	mg/L	0.1144	0.00072	mg/L	0.63 %
Sb 206.833	215.2	-0.0101	0.00359	mg/L	-0.0101	0.00359	mg/L	35.59 %
Se 196.026	-17.3	-0.0087	0.00383	mg/L	-0.0087	0.00383	mg/L	44.12 %
Sn 189.933	105.9	0.0093	0.00090	mg/L	0.0093	0.00090	mg/L	9.66 %
Sr 421.539R	117,614.9	0.1539	0.00003	mg/L	0.1539	0.00003	mg/L	0.02 %
Ti 337.280	1,645,725.6	2.653	0.0083	mg/L	2.653	0.0083	mg/L	0.31 %

Tl 190.800	-174.5	0.0052	0.00392	mg/L	0.0052		0.00392	mg/L	75.51 %
V 292.402	50,852.5	0.2253	0.00030	mg/L	0.2253		0.00030	mg/L	0.13 %
Zn 206.191	10,622.7	0.1879	0.00118	mg/L	0.1879		0.00118	mg/L	0.63 %

Mean Data

ID: b302864-07 **Seq. No.:** 55 **A/S Pos:** 435

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:39:15

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,082.0	97.73	0.813	%			%	0.83 %
Y 324.227A	1,381,169.1	99.27	0.767	%			%	0.77 %
Ag 328.068	-404.5	-0.0001	0.00049	mg/L	-0.0001	0.00049	mg/L	336.29 %
Al 308.215	15,882.6	12.1	0.07	mg/L	12.1	0.07	mg/L	0.61 %
As 188.979	12.8	0.0153	0.00342	mg/L	0.0153	0.00342	mg/L	22.40 %
Ba 233.527	4,889.5	0.0391	0.00032	mg/L	0.0391	0.00032	mg/L	0.83 %
Be 313.107	4,585.9	0.0008	0.00003	mg/L	0.0008	0.00003	mg/L	3.08 %
B 208.959	97.3	0.0075	0.00109	mg/L	0.0075	0.00109	mg/L	14.53 %
Ca 317.933	59,045.4	2.014	0.0129	mg/L	2.014	0.0129	mg/L	0.64 %
Cd 228.802	21.3	0.0005	0.00033	mg/L	0.0005	0.00033	mg/L	66.39 %
Co 228.616	440.9	0.0068	0.00035	mg/L	0.0068	0.00035	mg/L	5.05 %
Cr 267.716	6,030.9	0.0479	0.00020	mg/L	0.0479	0.00020	mg/L	0.41 %
Cu 324.754	2,047.6	0.0077	0.00014	mg/L	0.0077	0.00014	mg/L	1.83 %
Fe 273.955	537,090.0	21.33	0.025	mg/L	21.33	0.025	mg/L	0.12 %
K 766.491R	2,601.3	1.11	0.020	mg/L	1.11	0.020	mg/L	1.76 %
Li 670.781R	533.3	0.008	0.0016	mg/L	0.008	0.0016	mg/L	21.63 %
Mg 279.079R	3,188.3	1.31	0.017	mg/L	1.31	0.017	mg/L	1.30 %
Mn 257.610	118,229.6	0.1614	0.00027	mg/L	0.1614	0.00027	mg/L	0.17 %
Mo 202.030	156.3	0.0092	0.00039	mg/L	0.0092	0.00039	mg/L	4.26 %
Na 589.592R	1,134.3	0.112	0.0085	mg/L	0.112	0.0085	mg/L	7.59 %
Ni 231.604	453.4	0.008	0.0002	mg/L	0.008	0.0002	mg/L	2.05 %
Pb 220.353	162.4	0.0195	0.00154	mg/L	0.0195	0.00154	mg/L	7.90 %
Sb 206.833	-0.3	-0.0094	0.00388	mg/L	-0.0094	0.00388	mg/L	41.38 %
Se 196.026	-27.0	-0.0041	0.00125	mg/L	-0.0041	0.00125	mg/L	30.84 %
Sn 189.933	93.1	0.0086	0.00131	mg/L	0.0086	0.00131	mg/L	15.29 %
Sr 421.539R	12,220.6	0.0160	0.00019	mg/L	0.0160	0.00019	mg/L	1.22 %
Ti 337.280	372,922.1	0.6012	0.00311	mg/L	0.6012	0.00311	mg/L	0.52 %
Tl 190.800	-3.9	0.0042	0.00289	mg/L	0.0042	0.00289	mg/L	68.88 %
V 292.402	12,909.7	0.0573	0.00014	mg/L	0.0573	0.00014	mg/L	0.25 %
Zn 206.191	1,832.3	0.0318	0.00012	mg/L	0.0318	0.00012	mg/L	0.38 %

Mean Data

ID: rinse **Seq. No.:** 56 **A/S Pos:** 436

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:41:10

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,681.5	99.29	0.957	%			%	0.96 %
Y 324.227A	1,375,688.0	98.87	0.941	%			%	0.95 %
Ag 328.068	250.6	0.0012	0.00056	mg/L	0.0012	0.00056	mg/L	46.14 %
Al 308.215	30.5	0.023	0.0467	mg/L	0.023	0.0467	mg/L	201.93 %
As 188.979	9.2	0.0041	0.00495	mg/L	0.0041	0.00495	mg/L	119.62 %
Ba 233.527	-32.8	-0.0003	0.00009	mg/L	-0.0003	0.00009	mg/L	33.23 %
Be 313.107	299.2	0.0001	0.00001	mg/L	0.0001	0.00001	mg/L	21.99 %
B 208.959	12.4	0.0011	0.00107	mg/L	0.0011	0.00107	mg/L	100.18 %
Ca 317.933	-43.1	-0.0015	0.00241	mg/L	-0.0015	0.00241	mg/L	164.06 %
Cd 228.802	26.0	0.0006	0.00007	mg/L	0.0006	0.00007	mg/L	12.01 %
Co 228.616	-28.2	-0.0006	0.00014	mg/L	-0.0006	0.00014	mg/L	23.93 %
Cr 267.716	-20.7	-0.0002	0.00013	mg/L	-0.0002	0.00013	mg/L	78.46 %
Cu 324.754	25.2	0.0001	0.00042	mg/L	0.0001	0.00042	mg/L	435.43 %
Fe 273.955	283.8	0.0113	0.00058	mg/L	0.0113	0.00058	mg/L	5.11 %
K 766.491R	225.4	0.096	0.0127	mg/L	0.096	0.0127	mg/L	13.14 %
Li 670.781R	-54.2	-0.001	0.0015	mg/L	-0.001	0.0015	mg/L	199.59 %

Mg 279.079R	40.4	0.017	0.0171	mg/L	0.017	0.0171	mg/L	102.34	%
Mn 257.610	30.5	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	46.69	%
Mo 202.030	37.1	0.0020	0.00038	mg/L	0.0020	0.00038	mg/L	18.94	%
Na 589.592R	-68.1	-0.007	0.0131	mg/L	-0.007	0.0131	mg/L	194.72	%
Ni 231.604	35.6	0.001	0.0001	mg/L	0.001	0.0001	mg/L	23.10	%
Pb 220.353	46.9	0.0043	0.00059	mg/L	0.0043	0.00059	mg/L	13.76	%
Sb 206.833	-26.4	-0.0095	0.00233	mg/L	-0.0095	0.00233	mg/L	24.69	%
Se 196.026	-1.7	-0.0006	0.00271	mg/L	-0.0006	0.00271	mg/L	464.72	%
Sn 189.933	2.6	0.0002	0.00096	mg/L	0.0002	0.00096	mg/L	398.30	%
Sr 421.539R	96.5	0.0001	0.00016	mg/L	0.0001	0.00016	mg/L	128.81	%
Ti 337.280	290.3	0.0005	0.00015	mg/L	0.0005	0.00015	mg/L	32.96	%
Tl 190.800	22.4	0.0063	0.00073	mg/L	0.0063	0.00073	mg/L	11.56	%
V 292.402	27.6	0.0001	0.00013	mg/L	0.0001	0.00013	mg/L	93.11	%
Zn 206.191	107.6	0.0019	0.00022	mg/L	0.0019	0.00022	mg/L	12.11	%

Mean Data

ID: 3F26006-blk1 **Seq. No.:** 57 **A/S Pos:** 437

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:43:05

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	229,228.2	99.09	0.514	%			%	0.52	%
Y 324.227A	1,401,712.7	100.7	0.82	%			%	0.81	%
Ag 328.068	159.8	0.0008	0.00061	mg/L	0.0008	0.00061	mg/L	77.55	%
Al 308.215	-0.1	0.000	0.0279	mg/L	0.000	0.0279	mg/L	7,387.76	%
As 188.979	11.4	0.0052	0.00369	mg/L	0.0052	0.00369	mg/L	71.32	%
Ba 233.527	-59.4	-0.0005	0.00009	mg/L	-0.0005	0.00009	mg/L	17.60	%
Be 313.107	336.2	0.0001	0.00004	mg/L	0.0001	0.00004	mg/L	57.09	%
B 208.959	16.7	0.0015	0.00129	mg/L	0.0015	0.00129	mg/L	87.22	%
Ca 317.933	120.6	0.0041	0.00330	mg/L	0.0041	0.00330	mg/L	80.21	%
Cd 228.802	26.7	0.0006	0.00005	mg/L	0.0006	0.00005	mg/L	8.20	%
Co 228.616	-44.7	-0.0009	0.00016	mg/L	-0.0009	0.00016	mg/L	17.37	%
Cr 267.716	-4.4	0.0000	0.00005	mg/L	0.0000	0.00005	mg/L	155.19	%
Cu 324.754	-296.4	-0.0011	0.00027	mg/L	-0.0011	0.00027	mg/L	23.51	%
Fe 273.955	130.2	0.0052	0.00085	mg/L	0.0052	0.00085	mg/L	16.46	%
K 766.491R	269.2	0.115	0.0747	mg/L	0.115	0.0747	mg/L	64.89	%
Li 670.781R	-257.1	-0.004	0.0002	mg/L	-0.004	0.0002	mg/L	5.04	%
Mg 279.079R	79.4	0.033	0.0022	mg/L	0.033	0.0022	mg/L	6.65	%
Mn 257.610	-4.9	0.0000	0.00001	mg/L	0.0000	0.00001	mg/L	132.98	%
Mo 202.030	40.3	0.0022	0.00040	mg/L	0.0022	0.00040	mg/L	18.44	%
Na 589.592R	74.1	0.007	0.0111	mg/L	0.007	0.0111	mg/L	151.74	%
Ni 231.604	57.5	0.001	0.0003	mg/L	0.001	0.0003	mg/L	26.09	%
Pb 220.353	65.6	0.0060	0.00184	mg/L	0.0060	0.00184	mg/L	30.61	%
Sb 206.833	-34.9	-0.0125	0.00510	mg/L	-0.0125	0.00510	mg/L	40.86	%
Se 196.026	-11.3	-0.0038	0.00237	mg/L	-0.0038	0.00237	mg/L	63.09	%
Sn 189.933	-0.1	0.0000	0.00058	mg/L	0.0000	0.00058	mg/L	4,191.85	%
Sr 421.539R	57.1	0.0001	0.00006	mg/L	0.0001	0.00006	mg/L	82.50	%
Ti 337.280	206.2	0.0003	0.00008	mg/L	0.0003	0.00008	mg/L	24.19	%
Tl 190.800	20.8	0.0058	0.00358	mg/L	0.0058	0.00358	mg/L	61.19	%
V 292.402	145.4	0.0007	0.00047	mg/L	0.0007	0.00047	mg/L	70.20	%
Zn 206.191	210.1	0.0036	0.00013	mg/L	0.0036	0.00013	mg/L	3.69	%

Mean Data

ID: 3F26006-blk2 **Seq. No.:** 58 **A/S Pos:** 438

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:45:06

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	226,876.8	98.07	0.808	%			%	0.82	%
Y 324.227A	1,366,452.3	98.21	0.381	%			%	0.39	%
Ag 328.068	236.1	0.0012	0.00056	mg/L	0.0012	0.00056	mg/L	49.05	%
Al 308.215	17.1	0.013	0.0260	mg/L	0.013	0.0260	mg/L	201.01	%
As 188.979	6.3	0.0029	0.00265	mg/L	0.0029	0.00265	mg/L	92.85	%

Ba 233.527	8.0	0.0001	0.00007	mg/L	0.0001	0.00007	mg/L	104.52 %
Be 313.107	109.1	0.0000	0.00004	mg/L	0.0000	0.00004	mg/L	151.27 %
B 208.959	42.8	0.0041	0.00034	mg/L	0.0041	0.00034	mg/L	8.47 %
Ca 317.933	785.6	0.0268	0.00269	mg/L	0.0268	0.00269	mg/L	10.04 %
Cd 228.802	25.8	0.0006	0.00021	mg/L	0.0006	0.00021	mg/L	34.57 %
Co 228.616	-32.9	-0.0007	0.00015	mg/L	-0.0007	0.00015	mg/L	22.38 %
Cr 267.716	-13.2	-0.0001	0.00003	mg/L	-0.0001	0.00003	mg/L	32.61 %
Cu 324.754	-10.7	0.0000	0.00030	mg/L	0.0000	0.00030	mg/L	742.62 %
Fe 273.955	146.2	0.0058	0.00092	mg/L	0.0058	0.00092	mg/L	15.79 %
K 766.491R	141.2	0.060	0.0582	mg/L	0.060	0.0582	mg/L	96.43 %
Li 670.781R	-137.1	-0.002	0.0013	mg/L	-0.002	0.0013	mg/L	68.50 %
Mg 279.079R	29.5	0.012	0.0053	mg/L	0.012	0.0053	mg/L	43.62 %
Mn 257.610	22.5	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	114.03 %
Mo 202.030	22.9	0.0012	0.00028	mg/L	0.0012	0.00028	mg/L	22.61 %
Na 589.592R	4,389.7	0.434	0.0140	mg/L	0.434	0.0140	mg/L	3.22 %
Ni 231.604	50.4	0.001	0.0003	mg/L	0.001	0.0003	mg/L	33.05 %
Pb 220.353	23.7	0.0022	0.00062	mg/L	0.0022	0.00062	mg/L	28.70 %
Sb 206.833	-9.5	-0.0034	0.00307	mg/L	-0.0034	0.00307	mg/L	90.16 %
Se 196.026	-6.6	-0.0022	0.00073	mg/L	-0.0022	0.00073	mg/L	33.29 %
Sn 189.933	-0.6	-0.0001	0.00091	mg/L	-0.0001	0.00091	mg/L	1,721.38 %
Sr 421.539R	168.2	0.0002	0.00022	mg/L	0.0002	0.00022	mg/L	99.86 %
Ti 337.280	72.9	0.0001	0.00009	mg/L	0.0001	0.00009	mg/L	78.87 %
Tl 190.800	14.3	0.0040	0.00200	mg/L	0.0040	0.00200	mg/L	49.71 %
V 292.402	99.2	0.0005	0.00033	mg/L	0.0005	0.00033	mg/L	71.21 %
Zn 206.191	145.0	0.0025	0.00016	mg/L	0.0025	0.00016	mg/L	6.23 %

Mean Data

ID: 3F26006-blk3 **Seq. No.:** 59 **A/S Pos:** 439

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:47:01

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	222,271.7	96.08	1.102	%			%	1.15 %
Y 324.227A	1,338,876.5	96.23	0.578	%			%	0.60 %
Ag 328.068	150.7	0.0007	0.00074	mg/L	0.0007	0.00074	mg/L	100.80 %
Al 308.215	25.5	0.019	0.0254	mg/L	0.019	0.0254	mg/L	131.11 %
As 188.979	4.7	0.0021	0.00202	mg/L	0.0021	0.00202	mg/L	94.90 %
Ba 233.527	242.7	0.0020	0.00007	mg/L	0.0020	0.00007	mg/L	3.65 %
Be 313.107	-80.8	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	167.31 %
B 208.959	86.2	0.0082	0.00097	mg/L	0.0082	0.00097	mg/L	11.81 %
Ca 317.933	2,770.3	0.0945	0.00184	mg/L	0.0945	0.00184	mg/L	1.94 %
Cd 228.802	14.1	0.0003	0.00005	mg/L	0.0003	0.00005	mg/L	14.85 %
Co 228.616	-9.0	-0.0002	0.00007	mg/L	-0.0002	0.00007	mg/L	41.12 %
Cr 267.716	62.1	0.0005	0.00042	mg/L	0.0005	0.00042	mg/L	84.68 %
Cu 324.754	61.5	0.0002	0.00029	mg/L	0.0002	0.00029	mg/L	123.29 %
Fe 273.955	94.7	0.0038	0.00139	mg/L	0.0038	0.00139	mg/L	36.88 %
K 766.491R	-77.6	-0.033	0.0927	mg/L	-0.033	0.0927	mg/L	279.37 %
Li 670.781R	-235.9	-0.003	0.0016	mg/L	-0.003	0.0016	mg/L	47.11 %
Mg 279.079R	66.0	0.027	0.0386	mg/L	0.027	0.0386	mg/L	141.93 %
Mn 257.610	54.1	0.0001	0.00001	mg/L	0.0001	0.00001	mg/L	14.80 %
Mo 202.030	31.1	0.0017	0.00057	mg/L	0.0017	0.00057	mg/L	34.44 %
Na 589.592R	489,120.0	48.3	0.06	mg/L	48.3	0.06	mg/L	0.12 %
Ni 231.604	47.5	0.001	0.0003	mg/L	0.001	0.0003	mg/L	32.82 %
Pb 220.353	9.1	0.0008	0.00146	mg/L	0.0008	0.00146	mg/L	173.80 %
Sb 206.833	-6.0	-0.0022	0.00193	mg/L	-0.0022	0.00193	mg/L	87.92 %
Se 196.026	10.4	0.0035	0.00145	mg/L	0.0035	0.00145	mg/L	41.80 %
Sn 189.933	-2.0	-0.0002	0.00042	mg/L	-0.0002	0.00042	mg/L	221.74 %
Sr 421.539R	316.0	0.0004	0.00007	mg/L	0.0004	0.00007	mg/L	16.97 %
Ti 337.280	30.1	0.0000	0.00015	mg/L	0.0000	0.00015	mg/L	299.68 %
Tl 190.800	-1.7	-0.0005	0.00156	mg/L	-0.0005	0.00156	mg/L	330.97 %
V 292.402	-7.9	0.0000	0.00007	mg/L	0.0000	0.00007	mg/L	370.43 %
Zn 206.191	163.4	0.0028	0.00003	mg/L	0.0028	0.00003	mg/L	0.90 %

Mean Data

ID: 3F26006-blk4 **Seq. No.:** 60 **A/S Pos:** 440

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:48:56

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	224,860.0	97.20	0.513	%			%	0.53 %
Y 324.227A	1,350,454.6	97.06	0.926	%			%	0.95 %
Ag 328.068	52.8	0.0003	0.00028	mg/L	0.0003	0.00028	mg/L	110.16 %
Al 308.215	79.9	0.061	0.0299	mg/L	0.061	0.0299	mg/L	49.18 %
As 188.979	5.3	0.0024	0.00219	mg/L	0.0024	0.00219	mg/L	90.61 %
Ba 233.527	299.3	0.0025	0.00015	mg/L	0.0025	0.00015	mg/L	6.01 %
Be 313.107	-49.5	0.0000	0.00001	mg/L	0.0000	0.00001	mg/L	90.70 %
B 208.959	1,096.0	0.1060	0.00132	mg/L	0.1060	0.00132	mg/L	1.25 %
Ca 317.933	6,727.7	0.2295	0.00533	mg/L	0.2295	0.00533	mg/L	2.32 %
Cd 228.802	21.7	0.0005	0.00008	mg/L	0.0005	0.00008	mg/L	15.65 %
Co 228.616	-22.4	-0.0004	0.00021	mg/L	-0.0004	0.00021	mg/L	46.83 %
Cr 267.716	195.5	0.0016	0.00035	mg/L	0.0016	0.00035	mg/L	22.50 %
Cu 324.754	38.9	0.0002	0.00011	mg/L	0.0002	0.00011	mg/L	70.47 %
Fe 273.955	209.7	0.0083	0.00009	mg/L	0.0083	0.00009	mg/L	1.11 %
K 766.491R	697.4	0.298	0.0185	mg/L	0.298	0.0185	mg/L	6.19 %
Li 670.781R	-209.5	-0.003	0.0009	mg/L	-0.003	0.0009	mg/L	29.28 %
Mg 279.079R	120.7	0.050	0.0213	mg/L	0.050	0.0213	mg/L	42.78 %
Mn 257.610	82.0	0.0001	0.00001	mg/L	0.0001	0.00001	mg/L	8.26 %
Mo 202.030	36.6	0.0020	0.00072	mg/L	0.0020	0.00072	mg/L	36.74 %
Na 589.592R	149,383.7	14.8	0.03	mg/L	14.8	0.03	mg/L	0.19 %
Ni 231.604	35.1	0.001	0.0004	mg/L	0.001	0.0004	mg/L	63.78 %
Pb 220.353	15.6	0.0015	0.00191	mg/L	0.0015	0.00191	mg/L	131.26 %
Sb 206.833	-6.8	-0.0025	0.00649	mg/L	-0.0025	0.00649	mg/L	257.23 %
Se 196.026	-5.6	-0.0019	0.00369	mg/L	-0.0019	0.00369	mg/L	196.58 %
Sn 189.933	-1.6	-0.0002	0.00120	mg/L	-0.0002	0.00120	mg/L	742.09 %
Sr 421.539R	421.9	0.0006	0.00008	mg/L	0.0006	0.00008	mg/L	13.80 %
Ti 337.280	326.6	0.0005	0.00028	mg/L	0.0005	0.00028	mg/L	52.83 %
Tl 190.800	8.4	0.0024	0.00386	mg/L	0.0024	0.00386	mg/L	162.51 %
V 292.402	33.7	0.0002	0.00020	mg/L	0.0002	0.00020	mg/L	116.51 %
Zn 206.191	302.9	0.0052	0.00012	mg/L	0.0052	0.00012	mg/L	2.27 %

Mean Data

ID: CVS **Seq. No.:** 61 **A/S Pos:** 3

2013/06/27 11:52:06 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:50:54

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	223,201.3	96.48	0.910	%				0.94 %
Y 324.227A	1,331,786.9	95.72	0.414	%				0.43 %
Ag 328.068	101,891.5	0.4988	0.00128	mg/L	0.4988			0.26 %
2013/06/27 11:52:05 QC value within limits for Ag 328.068 Recovery = 99.75%								
Al 308.215	6,398.4	4.85	0.026	mg/L	4.85			0.53 %
2013/06/27 11:52:05 QC value within limits for Al 308.215 Recovery = 97.05%								
As 188.979	1,042.4	0.4744	0.00322	mg/L	0.4744			0.68 %
2013/06/27 11:52:05 QC value within limits for As 188.979 Recovery = 94.89%								
Ba 233.527	58,598.2	0.4834	0.00036	mg/L	0.4834			0.07 %
2013/06/27 11:52:05 QC value within limits for Ba 233.527 Recovery = 96.67%								
Be 313.107	221,008.7	0.0487	0.00007	mg/L	0.0487			0.14 %
2013/06/27 11:52:05 QC value within limits for Be 313.107 Recovery = 97.49%								
B 208.959	24,898.0	2.379	0.0185	mg/L	2.379			0.78 %
2013/06/27 11:52:05 QC value within limits for B 208.959 Recovery = 95.15%								
Ca 317.933	140,583.4	4.795	0.0193	mg/L	4.795			0.40 %
2013/06/27 11:52:05 QC value within limits for Ca 317.933 Recovery = 95.91%								
Cd 228.802	2,131.7	0.0502	0.00015	mg/L	0.0502			0.31 %
2013/06/27 11:52:05 QC value within limits for Cd 228.802 Recovery = 100.41%								
Co 228.616	24,434.3	0.4918	0.00315	mg/L	0.4918			0.64 %

2013/06/27 11:52:05 QC value within limits for Co 228.616 Recovery = 98.37%

Cr 267.716	62,415.3	0.4960	0.00098	mg/L	0.4960	0.20 %

2013/06/27 11:52:05 QC value within limits for Cr 267.716 Recovery = 99.21%

Cu 324.754	129,424.3	0.4956	0.00069	mg/L	0.4956	0.14 %

2013/06/27 11:52:05 QC value within limits for Cu 324.754 Recovery = 99.11%

Fe 273.955	61,759.7	2.450	0.0028	mg/L	2.450	0.12 %

2013/06/27 11:52:05 QC value within limits for Fe 273.955 Recovery = 98.00%

K 766.491R	57,335.7	24.5	0.06	mg/L	24.5	0.24 %

2013/06/27 11:52:05 QC value within limits for K 766.491R Recovery = 98.05%

Li 670.781R	34,357.7	0.491	0.0008	mg/L	0.491	0.17 %

2013/06/27 11:52:05 QC value within limits for Li 670.781R Recovery = 98.23%

Mg 279.079R	11,491.5	4.74	0.041	mg/L	4.74	0.87 %

2013/06/27 11:52:05 QC value within limits for Mg 279.079R Recovery = 94.78%

Mn 257.610	360,002.8	0.4915	0.00062	mg/L	0.4915	0.13 %

2013/06/27 11:52:05 QC value within limits for Mn 257.610 Recovery = 98.30%

Mo 202.030	9,111.7	0.4892	0.00250	mg/L	0.4892	0.51 %

2013/06/27 11:52:05 QC value within limits for Mo 202.030 Recovery = 97.84%

Na 589.592R	246,277.8	24.3	0.04	mg/L	24.3	0.17 %

2013/06/27 11:52:05 QC value within limits for Na 589.592R Recovery = 97.32%

Ni 231.604	26,960.3	0.487	0.0029	mg/L	0.487	0.59 %

2013/06/27 11:52:05 QC value within limits for Ni 231.604 Recovery = 97.40%

Pb 220.353	5,266.8	0.4842	0.00247	mg/L	0.4842	0.51 %

2013/06/27 11:52:05 QC value within limits for Pb 220.353 Recovery = 96.84%

Sb 206.833	1,367.6	0.4798	0.00266	mg/L	0.4798	0.56 %

2013/06/27 11:52:05 QC value within limits for Sb 206.833 Recovery = 95.97%

Se 196.026	1,439.1	0.4774	0.00285	mg/L	0.4774	0.60 %

2013/06/27 11:52:05 QC value within limits for Se 196.026 Recovery = 95.48%

Sn 189.933	5,166.0	0.4791	0.00489	mg/L	0.4791	1.02 %

2013/06/27 11:52:05 QC value within limits for Sn 189.933 Recovery = 95.82%

Sr 421.539R	375,367.9	0.4912	0.00046	mg/L	0.4912	0.09 %

2013/06/27 11:52:05 QC value within limits for Sr 421.539R Recovery = 98.24%

Ti 337.280	154,340.0	0.2488	0.00031	mg/L	0.2488	0.12 %

2013/06/27 11:52:05 QC value within limits for Ti 337.280 Recovery = 99.52%

Tl 190.800	1,763.2	0.4945	0.00369	mg/L	0.4945	0.75 %

2013/06/27 11:52:05 QC value within limits for Tl 190.800 Recovery = 98.90%

V 292.402	109,848.3	0.5020	0.00064	mg/L	0.5020	0.13 %

2013/06/27 11:52:05 QC value within limits for V 292.402 Recovery = 100.40%

Zn 206.191	27,334.2	0.4733	0.00344	mg/L	0.4733	0.73 %

2013/06/27 11:52:05 QC value within limits for Zn 206.191 Recovery = 94.66%

Mean Data

ID: BLK **Seq. No.:** 62 **A/S Pos:** 1

2013/06/27 11:54:08 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:52:50

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,661.9	100.1	0.53	%				0.53 %
Y 324.227A	1,388,528.7	99.80	0.575	%				0.58 %
Ag 328.068	172.7	0.0008	0.00076	mg/L	0.0008			90.44 %

2013/06/27 11:54:06 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	-35.1	-0.027	0.0355	mg/L	-0.027	132.64 %

2013/06/27 11:54:06 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	10.9	0.0049	0.00213	mg/L	0.0049	43.15 %

2013/06/27 11:54:06 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-41.5	-0.0003	0.00010	mg/L	-0.0003	28.25 %

2013/06/27 11:54:06 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	264.5	0.0001	0.00003	mg/L	0.0001	45.31 %

2013/06/27 11:54:06 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	85.7	0.0082	0.00255	mg/L	0.0082	31.07 %

2013/06/27 11:54:06 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	91.9	0.0031	0.00236	mg/L	0.0031	75.15 %

2013/06/27 11:54:06 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	26.4	0.0006	0.00008	mg/L	0.0006	13.48 %
2013/06/27 11:54:06	QC value within limits for Cd 228.802 Recovery = Not calculated					
Co 228.616	-29.4	-0.0006	0.00020	mg/L	-0.0006	34.00 %
2013/06/27 11:54:06	QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716	-6.6	-0.0001	0.00018	mg/L	-0.0001	350.51 %
2013/06/27 11:54:06	QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.754	-151.8	-0.0006	0.00020	mg/L	-0.0006	34.33 %
2013/06/27 11:54:06	QC value within limits for Cu 324.754 Recovery = Not calculated					
Fe 273.955	120.6	0.0048	0.00058	mg/L	0.0048	12.05 %
2013/06/27 11:54:06	QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.491R	370.1	0.158	0.0712	mg/L	0.158	44.97 %
2013/06/27 11:54:06	QC value within limits for K 766.491R Recovery = Not calculated					
Li 670.781R	-207.6	-0.003	0.0010	mg/L	-0.003	32.93 %
2013/06/27 11:54:06	QC value within limits for Li 670.781R Recovery = Not calculated					
Mg 279.079R	66.2	0.027	0.0269	mg/L	0.027	98.53 %
2013/06/27 11:54:06	QC value within limits for Mg 279.079R Recovery = Not calculated					
Mn 257.610	22.8	0.0000	0.00003	mg/L	0.0000	102.89 %
2013/06/27 11:54:06	QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.030	32.2	0.0017	0.00036	mg/L	0.0017	21.00 %
2013/06/27 11:54:06	QC value within limits for Mo 202.030 Recovery = Not calculated					
Na 589.592R	233.4	0.023	0.0116	mg/L	0.023	50.23 %
2013/06/27 11:54:06	QC value within limits for Na 589.592R Recovery = Not calculated					
Ni 231.604	33.5	0.001	0.0000	mg/L	0.001	6.07 %
2013/06/27 11:54:06	QC value within limits for Ni 231.604 Recovery = Not calculated					
Pb 220.353	45.5	0.0042	0.00040	mg/L	0.0042	9.55 %
2013/06/27 11:54:06	QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.833	-24.3	-0.0087	0.00247	mg/L	-0.0087	28.41 %
2013/06/27 11:54:06	QC value within limits for Sb 206.833 Recovery = Not calculated					
Se 196.026	-11.1	-0.0037	0.00319	mg/L	-0.0037	86.89 %
2013/06/27 11:54:06	QC value within limits for Se 196.026 Recovery = Not calculated					
Sn 189.933	4.0	0.0004	0.00021	mg/L	0.0004	55.56 %
2013/06/27 11:54:06	QC value within limits for Sn 189.933 Recovery = Not calculated					
Sr 421.539R	56.4	0.0001	0.00008	mg/L	0.0001	104.99 %
2013/06/27 11:54:06	QC value within limits for Sr 421.539R Recovery = Not calculated					
Ti 337.280	230.2	0.0004	0.00005	mg/L	0.0004	12.93 %
2013/06/27 11:54:06	QC value within limits for Ti 337.280 Recovery = Not calculated					
Tl 190.800	28.6	0.0080	0.00162	mg/L	0.0080	20.18 %
2013/06/27 11:54:06	QC value within limits for Tl 190.800 Recovery = Not calculated					
V 292.402	116.4	0.0005	0.00023	mg/L	0.0005	42.00 %
2013/06/27 11:54:06	QC value within limits for V 292.402 Recovery = Not calculated					
Zn 206.191	151.6	0.0026	0.00025	mg/L	0.0026	9.46 %
2013/06/27 11:54:07	QC value within limits for Zn 206.191 Recovery = Not calculated					

Mean Data

ID: 3F26006-blk5 **Seq. No.:** 63 **A/S Pos:** 441

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:54:54

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,527.3	97.92	1.226	%			%	1.25 %
Y 324.227A	1,342,704.0	96.50	0.335	%			%	0.35 %
Ag 328.068	121.7	0.0006	0.00083	mg/L	0.0006	0.00083	mg/L	139.93 %
Al 308.215	-18.7	-0.014	0.0125	mg/L	-0.014	0.0125	mg/L	87.82 %
As 188.979	2.0	0.0009	0.00256	mg/L	0.0009	0.00256	mg/L	283.82 %
Ba 233.527	7.8	0.0001	0.00011	mg/L	0.0001	0.00011	mg/L	173.13 %
Be 313.107	-161.6	0.0000	0.00001	mg/L	0.0000	0.00001	mg/L	20.93 %
B 208.959	79.7	0.0076	0.00026	mg/L	0.0076	0.00026	mg/L	3.43 %
Ca 317.933	173.5	0.0059	0.00028	mg/L	0.0059	0.00028	mg/L	4.81 %
Cd 228.802	12.5	0.0003	0.00014	mg/L	0.0003	0.00014	mg/L	48.02 %
Co 228.616	-24.0	-0.0005	0.00014	mg/L	-0.0005	0.00014	mg/L	30.06 %
Cr 267.716	-30.7	-0.0002	0.00005	mg/L	-0.0002	0.00005	mg/L	20.13 %
Cu 324.754	55.2	0.0002	0.00017	mg/L	0.0002	0.00017	mg/L	78.53 %

Fe 273.955	75.1	0.0030	0.00105	mg/L	0.0030	0.00105	mg/L	35.36	%
K 766.491R	-150.0	-0.064	0.0150	mg/L	-0.064	0.0150	mg/L	23.46	%
Li 670.781R	-149.5	-0.002	0.0014	mg/L	-0.002	0.0014	mg/L	67.40	%
Mg 279.079R	74.7	0.031	0.0101	mg/L	0.031	0.0101	mg/L	32.67	%
Mn 257.610	66.7	0.0001	0.00003	mg/L	0.0001	0.00003	mg/L	37.70	%
Mo 202.030	20.8	0.0011	0.00025	mg/L	0.0011	0.00025	mg/L	22.14	%
Na 589.592R	557,212.7	55.1	0.16	mg/L	55.1	0.16	mg/L	0.29	%
Ni 231.604	33.3	0.001	0.0002	mg/L	0.001	0.0002	mg/L	36.47	%
Pb 220.353	15.6	0.0014	0.00061	mg/L	0.0014	0.00061	mg/L	43.12	%
Sb 206.833	-10.8	-0.0039	0.00619	mg/L	-0.0039	0.00619	mg/L	159.89	%
Se 196.026	-8.6	-0.0029	0.00331	mg/L	-0.0029	0.00331	mg/L	116.06	%
Sn 189.933	2.7	0.0002	0.00048	mg/L	0.0002	0.00048	mg/L	194.84	%
Sr 421.539R	268.7	0.0004	0.00015	mg/L	0.0004	0.00015	mg/L	41.58	%
Ti 337.280	92.8	0.0001	0.00012	mg/L	0.0001	0.00012	mg/L	83.24	%
Tl 190.800	7.9	0.0022	0.00218	mg/L	0.0022	0.00218	mg/L	98.69	%
V 292.402	32.0	0.0002	0.00026	mg/L	0.0002	0.00026	mg/L	171.78	%
Zn 206.191	101.4	0.0017	0.00011	mg/L	0.0017	0.00011	mg/L	6.13	%

Mean Data

ID: 3F26006-blk6 **Seq. No.:** 64 **A/S Pos:** 442

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:56:49

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	225,180.4	97.34	1.737	%			%	1.78	%
Y 324.227A	1,348,320.4	96.91	0.575	%			%	0.59	%
Ag 328.068	43.6	0.0002	0.00056	mg/L	0.0002	0.00056	mg/L	261.20	%
Al 308.215	4.7	0.004	0.0144	mg/L	0.004	0.0144	mg/L	407.17	%
As 188.979	7.3	0.0033	0.00188	mg/L	0.0033	0.00188	mg/L	56.85	%
Ba 233.527	-23.7	-0.0002	0.00004	mg/L	-0.0002	0.00004	mg/L	22.16	%
Be 313.107	-106.8	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	115.29	%
B 208.959	61.0	0.0058	0.00106	mg/L	0.0058	0.00106	mg/L	18.20	%
Ca 317.933	417.9	0.0143	0.00255	mg/L	0.0143	0.00255	mg/L	17.89	%
Cd 228.802	20.5	0.0005	0.00019	mg/L	0.0005	0.00019	mg/L	40.16	%
Co 228.616	-22.1	-0.0004	0.00014	mg/L	-0.0004	0.00014	mg/L	32.15	%
Cr 267.716	-10.9	-0.0001	0.00003	mg/L	-0.0001	0.00003	mg/L	37.87	%
Cu 324.754	131.8	0.0005	0.00021	mg/L	0.0005	0.00021	mg/L	40.89	%
Fe 273.955	102.8	0.0041	0.00003	mg/L	0.0041	0.00003	mg/L	0.69	%
K 766.491R	-25.2	-0.011	0.0563	mg/L	-0.011	0.0563	mg/L	523.49	%
Li 670.781R	-111.5	-0.002	0.0007	mg/L	-0.002	0.0007	mg/L	45.07	%
Mg 279.079R	22.9	0.009	0.0144	mg/L	0.009	0.0144	mg/L	152.70	%
Mn 257.610	42.4	0.0001	0.00004	mg/L	0.0001	0.00004	mg/L	60.68	%
Mo 202.030	22.7	0.0012	0.00045	mg/L	0.0012	0.00045	mg/L	37.04	%
Na 589.592R	523,754.8	51.7	0.12	mg/L	51.7	0.12	mg/L	0.24	%
Ni 231.604	48.0	0.001	0.0003	mg/L	0.001	0.0003	mg/L	38.40	%
Pb 220.353	26.2	0.0024	0.00050	mg/L	0.0024	0.00050	mg/L	20.73	%
Sb 206.833	-0.8	-0.0003	0.00369	mg/L	-0.0003	0.00369	mg/L	1,319.79	%
Se 196.026	-1.5	-0.0005	0.00363	mg/L	-0.0005	0.00363	mg/L	748.92	%
Sn 189.933	3.8	0.0004	0.00071	mg/L	0.0004	0.00071	mg/L	202.26	%
Sr 421.539R	190.6	0.0002	0.00019	mg/L	0.0002	0.00019	mg/L	75.97	%
Ti 337.280	250.1	0.0004	0.00007	mg/L	0.0004	0.00007	mg/L	16.52	%
Tl 190.800	10.2	0.0029	0.00103	mg/L	0.0029	0.00103	mg/L	36.06	%
V 292.402	50.6	0.0002	0.00040	mg/L	0.0002	0.00040	mg/L	167.96	%
Zn 206.191	201.3	0.0035	0.00015	mg/L	0.0035	0.00015	mg/L	4.43	%

Mean Data

ID: 3F26006-bs1 **Seq. No.:** 65 **A/S Pos:** 443

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 11:58:44

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	224,226.0	96.93	0.271	%			%	0.28	%
Y 324.227A	1,338,356.6	96.19	0.327	%			%	0.34	%

Ag 328.068	19,394.8	0.0982	0.00011	mg/L	0.0982	0.00011	mg/L	0.11 %
Al 308.215	6,630.5	5.03	0.037	mg/L	5.03	0.037	mg/L	0.74 %
As 188.979	1,032.1	0.4698	0.00306	mg/L	0.4698	0.00306	mg/L	0.65 %
Ba 233.527	56,998.7	0.4702	0.00146	mg/L	0.4702	0.00146	mg/L	0.31 %
Be 313.107	218,107.7	0.0481	0.00012	mg/L	0.0481	0.00012	mg/L	0.26 %
B 208.959	24,501.9	2.341	0.0101	mg/L	2.341	0.0101	mg/L	0.43 %
Ca 317.933	142,422.5	4.858	0.0405	mg/L	4.858	0.0405	mg/L	0.83 %
Cd 228.802	2,099.6	0.0494	0.00044	mg/L	0.0494	0.00044	mg/L	0.89 %
Co 228.616	24,102.3	0.4851	0.00262	mg/L	0.4851	0.00262	mg/L	0.54 %
Cr 267.716	61,258.1	0.4869	0.00118	mg/L	0.4869	0.00118	mg/L	0.24 %
Cu 324.754	128,051.7	0.4903	0.00093	mg/L	0.4903	0.00093	mg/L	0.19 %
Fe 273.955	61,040.4	2.422	0.0020	mg/L	2.422	0.0020	mg/L	0.08 %
K 766.491R	56,634.3	24.2	0.06	mg/L	24.2	0.06	mg/L	0.26 %
Li 670.781R	34,210.5	0.489	0.0010	mg/L	0.489	0.0010	mg/L	0.20 %
Mg 279.079R	11,399.7	4.70	0.037	mg/L	4.70	0.037	mg/L	0.79 %
Mn 257.610	350,745.2	0.4788	0.00135	mg/L	0.4788	0.00135	mg/L	0.28 %
Mo 202.030	8,835.0	0.4744	0.00207	mg/L	0.4744	0.00207	mg/L	0.44 %
Na 589.592R	242,458.3	24.0	0.02	mg/L	24.0	0.02	mg/L	0.10 %
Ni 231.604	26,726.2	0.483	0.0030	mg/L	0.483	0.0030	mg/L	0.62 %
Pb 220.353	5,226.1	0.4805	0.00459	mg/L	0.4805	0.00459	mg/L	0.95 %
Sb 206.833	1,326.5	0.4653	0.00246	mg/L	0.4653	0.00246	mg/L	0.53 %
Se 196.026	1,423.3	0.4721	0.00449	mg/L	0.4721	0.00449	mg/L	0.95 %
Sn 189.933	5,085.0	0.4716	0.00357	mg/L	0.4716	0.00357	mg/L	0.76 %
Sr 421.539R	368,975.3	0.4829	0.00090	mg/L	0.4829	0.00090	mg/L	0.19 %
Ti 337.280	151,885.4	0.2448	0.00046	mg/L	0.2448	0.00046	mg/L	0.19 %
Tl 190.800	1,767.8	0.4958	0.00532	mg/L	0.4958	0.00532	mg/L	1.07 %
V 292.402	109,230.8	0.4990	0.00058	mg/L	0.4990	0.00058	mg/L	0.12 %
Zn 206.191	28,514.0	0.4936	0.00276	mg/L	0.4936	0.00276	mg/L	0.56 %

Mean Data

ID: 3F26006-ms1 **Seq. No.:** 66 **A/S Pos:** 444

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:00:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	221,573.2	95.78	0.959	%			%	1.00 %
Y 324.227A	1,319,885.0	94.86	0.314	%			%	0.33 %
Ag 328.068	19,019.5	0.0963	0.00042	mg/L	0.0963	0.00042	mg/L	0.44 %
Al 308.215	8,096.1	6.14	0.037	mg/L	6.14	0.037	mg/L	0.61 %
As 188.979	1,034.4	0.4709	0.00303	mg/L	0.4709	0.00303	mg/L	0.64 %
Ba 233.527	56,748.1	0.4681	0.00080	mg/L	0.4681	0.00080	mg/L	0.17 %
Be 313.107	217,444.5	0.0480	0.00006	mg/L	0.0480	0.00006	mg/L	0.12 %
B 208.959	24,209.3	2.313	0.0174	mg/L	2.313	0.0174	mg/L	0.75 %
Ca 317.933	147,393.8	5.028	0.0064	mg/L	5.028	0.0064	mg/L	0.13 %
Cd 228.802	2,089.3	0.0492	0.00044	mg/L	0.0492	0.00044	mg/L	0.90 %
Co 228.616	23,893.0	0.4809	0.00294	mg/L	0.4809	0.00294	mg/L	0.61 %
Cr 267.716	60,317.5	0.4794	0.00117	mg/L	0.4794	0.00117	mg/L	0.24 %
Cu 324.754	128,779.9	0.4931	0.00117	mg/L	0.4931	0.00117	mg/L	0.24 %
Fe 273.955	60,744.0	2.410	0.0039	mg/L	2.410	0.0039	mg/L	0.16 %
K 766.491R	55,777.8	23.8	0.05	mg/L	23.8	0.05	mg/L	0.22 %
Li 670.781R	33,699.1	0.482	0.0026	mg/L	0.482	0.0026	mg/L	0.54 %
Mg 279.079R	11,917.2	4.91	0.013	mg/L	4.91	0.013	mg/L	0.27 %
Mn 257.610	389,447.3	0.5317	0.00136	mg/L	0.5317	0.00136	mg/L	0.26 %
Mo 202.030	8,770.5	0.4709	0.00282	mg/L	0.4709	0.00282	mg/L	0.60 %
Na 589.592R	1,566,098.5	155	0.1	mg/L	155	0.1	mg/L	0.06 %
Ni 231.604	26,541.1	0.479	0.0029	mg/L	0.479	0.0029	mg/L	0.60 %
Pb 220.353	5,121.9	0.4714	0.00356	mg/L	0.4714	0.00356	mg/L	0.76 %
Sb 206.833	1,326.5	0.4651	0.00142	mg/L	0.4651	0.00142	mg/L	0.30 %
Se 196.026	1,412.9	0.4684	0.00078	mg/L	0.4684	0.00078	mg/L	0.17 %
Sn 189.933	5,038.8	0.4673	0.00229	mg/L	0.4673	0.00229	mg/L	0.49 %
Sr 421.539R	359,926.0	0.4710	0.00046	mg/L	0.4710	0.00046	mg/L	0.10 %
Ti 337.280	150,739.5	0.2430	0.00067	mg/L	0.2430	0.00067	mg/L	0.28 %

Tl 190.800	1,709.9	0.4799	0.00102	mg/L	0.4799	0.00102	mg/L	0.21 %
V 292.402	108,751.6	0.4968	0.00080	mg/L	0.4968	0.00080	mg/L	0.16 %
Zn 206.191	29,148.6	0.5045	0.00339	mg/L	0.5045	0.00339	mg/L	0.67 %

Mean Data

ID: 3F26006-msd1 **Seq. No.:** 67 **A/S Pos:** 445

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:02:37

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	224,223.4	96.93	0.896	%			%	0.92 %
Y 324.227A	1,321,026.4	94.94	0.360	%			%	0.38 %
Ag 328.068	19,028.2	0.0964	0.00057	mg/L	0.0964	0.00057	mg/L	0.59 %
Al 308.215	8,146.7	6.18	0.055	mg/L	6.18	0.055	mg/L	0.88 %
As 188.979	1,033.7	0.4706	0.00086	mg/L	0.4706	0.00086	mg/L	0.18 %
Ba 233.527	56,630.4	0.4671	0.00020	mg/L	0.4671	0.00020	mg/L	0.04 %
Be 313.107	216,893.9	0.0478	0.00006	mg/L	0.0478	0.00006	mg/L	0.13 %
B 208.959	24,287.4	2.321	0.0092	mg/L	2.321	0.0092	mg/L	0.40 %
Ca 317.933	148,470.5	5.064	0.0286	mg/L	5.064	0.0286	mg/L	0.57 %
Cd 228.802	2,092.1	0.0493	0.00007	mg/L	0.0493	0.00007	mg/L	0.15 %
Co 228.616	23,890.8	0.4809	0.00125	mg/L	0.4809	0.00125	mg/L	0.26 %
Cr 267.716	60,052.8	0.4773	0.00095	mg/L	0.4773	0.00095	mg/L	0.20 %
Cu 324.754	128,204.7	0.4909	0.00069	mg/L	0.4909	0.00069	mg/L	0.14 %
Fe 273.955	60,550.2	2.402	0.0045	mg/L	2.402	0.0045	mg/L	0.19 %
K 766.491R	56,440.8	24.1	0.03	mg/L	24.1	0.03	mg/L	0.11 %
Li 670.781R	33,565.5	0.480	0.0016	mg/L	0.480	0.0016	mg/L	0.34 %
Mg 279.079R	12,058.0	4.97	0.030	mg/L	4.97	0.030	mg/L	0.61 %
Mn 257.610	389,495.1	0.5317	0.00080	mg/L	0.5317	0.00080	mg/L	0.15 %
Mo 202.030	8,778.1	0.4714	0.00127	mg/L	0.4714	0.00127	mg/L	0.27 %
Na 589.592R	1,617,446.2	160	0.4	mg/L	160	0.4	mg/L	0.22 %
Ni 231.604	26,533.8	0.479	0.0013	mg/L	0.479	0.0013	mg/L	0.27 %
Pb 220.353	5,124.1	0.4716	0.00172	mg/L	0.4716	0.00172	mg/L	0.36 %
Sb 206.833	1,324.4	0.4644	0.00237	mg/L	0.4644	0.00237	mg/L	0.51 %
Se 196.026	1,405.6	0.4660	0.00607	mg/L	0.4660	0.00607	mg/L	1.30 %
Sn 189.933	5,031.3	0.4666	0.00322	mg/L	0.4666	0.00322	mg/L	0.69 %
Sr 421.539R	359,058.2	0.4699	0.00075	mg/L	0.4699	0.00075	mg/L	0.16 %
Ti 337.280	150,060.3	0.2419	0.00051	mg/L	0.2419	0.00051	mg/L	0.21 %
Tl 190.800	1,710.3	0.4800	0.00146	mg/L	0.4800	0.00146	mg/L	0.30 %
V 292.402	108,291.3	0.4947	0.00060	mg/L	0.4947	0.00060	mg/L	0.12 %
Zn 206.191	29,194.9	0.5053	0.00137	mg/L	0.5053	0.00137	mg/L	0.27 %

Mean Data

ID: b302733-01 **Seq. No.:** 68 **A/S Pos:** 446

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:04:32

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	228,049.8	98.58	0.815	%			%	0.83 %
Y 324.227A	1,345,815.0	96.73	0.508	%			%	0.53 %
Ag 328.068	149.2	0.0006	0.00081	mg/L	0.0006	0.00081	mg/L	140.08 %
Al 308.215	31.4	0.024	0.0382	mg/L	0.024	0.0382	mg/L	160.37 %
As 188.979	1.4	0.0009	0.00260	mg/L	0.0009	0.00260	mg/L	281.47 %
Ba 233.527	464.0	0.0038	0.00007	mg/L	0.0038	0.00007	mg/L	1.90 %
Be 313.107	-32.5	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	285.50 %
B 208.959	258.2	0.0248	0.00245	mg/L	0.0248	0.00245	mg/L	9.88 %
Ca 317.933	407,517.9	13.90	0.011	mg/L	13.90	0.011	mg/L	0.08 %
Cd 228.802	23.5	0.0005	0.00010	mg/L	0.0005	0.00010	mg/L	19.30 %
Co 228.616	-9.7	-0.0002	0.00008	mg/L	-0.0002	0.00008	mg/L	44.49 %
Cr 267.716	117.9	0.0009	0.00042	mg/L	0.0009	0.00042	mg/L	45.35 %
Cu 324.754	201.0	0.0008	0.00022	mg/L	0.0008	0.00022	mg/L	26.63 %
Fe 273.955	1,698.6	0.0675	0.00037	mg/L	0.0675	0.00037	mg/L	0.54 %
K 766.491R	2,177.3	0.931	0.0091	mg/L	0.931	0.0091	mg/L	0.98 %
Li 670.781R	-100.3	-0.001	0.0009	mg/L	-0.001	0.0009	mg/L	63.85 %

Mg 279.079R	3,308.5	1.36	0.016	mg/L	1.36	0.016	mg/L	1.18	%
Mn 257.610	11,288.0	0.0154	0.00004	mg/L	0.0154	0.00004	mg/L	0.24	%
Mo 202.030	68.7	0.0035	0.00016	mg/L	0.0035	0.00016	mg/L	4.66	%
Na 589.592R	519,949.9	51.4	0.04	mg/L	51.4	0.04	mg/L	0.08	%
Ni 231.604	109.4	0.002	0.0001	mg/L	0.002	0.0001	mg/L	4.37	%
Pb 220.353	27.6	0.0028	0.00090	mg/L	0.0028	0.00090	mg/L	32.34	%
Sb 206.833	2.0	0.0004	0.00344	mg/L	0.0004	0.00344	mg/L	960.92	%
Se 196.026	-7.2	-0.0028	0.00250	mg/L	-0.0028	0.00250	mg/L	89.58	%
Sn 189.933	28.5	0.0021	0.00069	mg/L	0.0021	0.00069	mg/L	32.57	%
Sr 421.539R	36,264.6	0.0475	0.00012	mg/L	0.0475	0.00012	mg/L	0.25	%
Ti 337.280	57.8	0.0001	0.00007	mg/L	0.0001	0.00007	mg/L	70.19	%
Tl 190.800	14.3	0.0045	0.00264	mg/L	0.0045	0.00264	mg/L	59.13	%
V 292.402	84.9	0.0004	0.00066	mg/L	0.0004	0.00066	mg/L	158.09	%
Zn 206.191	5,586.1	0.0963	0.00033	mg/L	0.0963	0.00033	mg/L	0.34	%

Mean Data

ID: b302840-05 **Seq. No.:** 69 **A/S Pos:** 447

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:06:27

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	227,952.2	98.54	1.264	%			%	1.28	%
Y 324.227A	1,374,385.0	98.78	0.796	%			%	0.81	%
Ag 328.068	207.3	0.0011	0.00015	mg/L	0.0011	0.00015	mg/L	14.41	%
Al 308.215	520.8	0.396	0.0427	mg/L	0.396	0.0427	mg/L	10.77	%
As 188.979	27.0	0.0126	0.00485	mg/L	0.0126	0.00485	mg/L	38.61	%
Ba 233.527	753.6	0.0062	0.00007	mg/L	0.0062	0.00007	mg/L	1.08	%
Be 313.107	188.5	0.0000	0.00004	mg/L	0.0000	0.00004	mg/L	145.54	%
B 208.959	1,231.8	0.1191	0.00143	mg/L	0.1191	0.00143	mg/L	1.20	%
Ca 317.933	31,666.3	1.080	0.0131	mg/L	1.080	0.0131	mg/L	1.21	%
Cd 228.802	27.0	0.0006	0.00025	mg/L	0.0006	0.00025	mg/L	40.04	%
Co 228.616	-15.1	-0.0004	0.00011	mg/L	-0.0004	0.00011	mg/L	27.88	%
Cr 267.716	339.6	0.0027	0.00042	mg/L	0.0027	0.00042	mg/L	15.56	%
Cu 324.754	303.4	0.0012	0.00037	mg/L	0.0012	0.00037	mg/L	31.23	%
Fe 273.955	18,219.9	0.7237	0.00268	mg/L	0.7237	0.00268	mg/L	0.37	%
K 766.491R	1,102.7	0.471	0.0103	mg/L	0.471	0.0103	mg/L	2.18	%
Li 670.781R	-89.8	-0.001	0.0007	mg/L	-0.001	0.0007	mg/L	54.93	%
Mg 279.079R	429.4	0.177	0.0135	mg/L	0.177	0.0135	mg/L	7.61	%
Mn 257.610	881.7	0.0012	0.00001	mg/L	0.0012	0.00001	mg/L	0.87	%
Mo 202.030	36.0	0.0019	0.00017	mg/L	0.0019	0.00017	mg/L	8.75	%
Na 589.592R	36,264.5	3.58	0.013	mg/L	3.58	0.013	mg/L	0.36	%
Ni 231.604	57.0	0.001	0.0002	mg/L	0.001	0.0002	mg/L	22.72	%
Pb 220.353	537.9	0.0494	0.00108	mg/L	0.0494	0.00108	mg/L	2.19	%
Sb 206.833	-12.5	-0.0048	0.00035	mg/L	-0.0048	0.00035	mg/L	7.27	%
Se 196.026	-7.7	-0.0024	0.00423	mg/L	-0.0024	0.00423	mg/L	175.13	%
Sn 189.933	6.9	0.0006	0.00025	mg/L	0.0006	0.00025	mg/L	41.20	%
Sr 421.539R	1,961.1	0.0026	0.00013	mg/L	0.0026	0.00013	mg/L	5.06	%
Ti 337.280	23,842.1	0.0384	0.00222	mg/L	0.0384	0.00222	mg/L	5.77	%
Tl 190.800	20.6	0.0060	0.00287	mg/L	0.0060	0.00287	mg/L	47.80	%
V 292.402	295.4	0.0013	0.00034	mg/L	0.0013	0.00034	mg/L	26.23	%
Zn 206.191	2,436.2	0.0420	0.00038	mg/L	0.0420	0.00038	mg/L	0.91	%

Mean Data

ID: b302877-01 **Seq. No.:** 70 **A/S Pos:** 448

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:08:29

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	219,136.5	94.73	0.185	%			%	0.20	%
Y 324.227A	1,282,446.3	92.17	0.634	%			%	0.69	%
Ag 328.068	-59.1	-0.0003	0.00082	mg/L	-0.0003	0.00082	mg/L	282.23	%
Al 308.215	38.6	0.029	0.0175	mg/L	0.029	0.0175	mg/L	59.59	%
As 188.979	0.1	0.0001	0.00306	mg/L	0.0001	0.00306	mg/L	6,042.63	%

Ba 233.527	574.0	0.0047	0.00017	mg/L	0.0047	0.00017	mg/L	3.59 %
Be 313.107	-762.4	-0.0002	0.00003	mg/L	-0.0002	0.00003	mg/L	15.03 %
B 208.959	190.5	0.0184	0.00094	mg/L	0.0184	0.00094	mg/L	5.09 %
Ca 317.933	17,834.5	0.6083	0.00821	mg/L	0.6083	0.00821	mg/L	1.35 %
Cd 228.802	1.0	0.0000	0.00032	mg/L	0.0000	0.00032	mg/L	1,486.16 %
Co 228.616	4.7	0.0001	0.00013	mg/L	0.0001	0.00013	mg/L	128.67 %
Cr 267.716	55.4	0.0004	0.00037	mg/L	0.0004	0.00037	mg/L	84.65 %
Cu 324.754	346.2	0.0014	0.00033	mg/L	0.0014	0.00033	mg/L	23.64 %
Fe 273.955	83.8	0.0033	0.00041	mg/L	0.0033	0.00041	mg/L	12.46 %
K 766.491R	6,780.1	2.90	0.106	mg/L	2.90	0.106	mg/L	3.65 %
Li 670.781R	118.8	0.002	0.0004	mg/L	0.002	0.0004	mg/L	25.12 %
Mg 279.079R	2,787.5	1.15	0.020	mg/L	1.15	0.020	mg/L	1.73 %
Mn 257.610	218.9	0.0003	0.00003	mg/L	0.0003	0.00003	mg/L	9.29 %
Mo 202.030	12.9	0.0007	0.00082	mg/L	0.0007	0.00082	mg/L	119.46 %
Na 589.592R	4,799,298.7	474	2.7	mg/L	474	2.7	mg/L	0.56 %
Ni 231.604	17.1	0.000	0.0002	mg/L	0.000	0.0002	mg/L	54.41 %
Pb 220.353	-22.9	-0.0021	0.00154	mg/L	-0.0021	0.00154	mg/L	74.49 %
Sb 206.833	19.1	0.0068	0.00291	mg/L	0.0068	0.00291	mg/L	42.76 %
Se 196.026	17.8	0.0059	0.00150	mg/L	0.0059	0.00150	mg/L	25.47 %
Sn 189.933	6.3	0.0006	0.00113	mg/L	0.0006	0.00113	mg/L	200.81 %
Sr 421.539R	6,279.3	0.0082	0.00013	mg/L	0.0082	0.00013	mg/L	1.64 %
Ti 337.280	73.2	0.0001	0.00026	mg/L	0.0001	0.00026	mg/L	219.21 %
Tl 190.800	-9.6	-0.0027	0.00070	mg/L	-0.0027	0.00070	mg/L	26.27 %
V 292.402	36.9	0.0002	0.00026	mg/L	0.0002	0.00026	mg/L	147.45 %
Zn 206.191	130.8	0.0023	0.00010	mg/L	0.0023	0.00010	mg/L	4.34 %

Mean Data

ID: b302886-01 **Seq. No.:** 71 **A/S Pos:** 449

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:10:25

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	221,937.6	95.94	0.528	%			%	0.55 %
Y 324.227A	1,329,665.5	95.57	0.348	%			%	0.36 %
Ag 328.068	192.1	0.0009	0.00062	mg/L	0.0009	0.00062	mg/L	67.66 %
Al 308.215	1,757.0	1.34	0.015	mg/L	1.34	0.015	mg/L	1.15 %
As 188.979	3.1	0.0016	0.00158	mg/L	0.0016	0.00158	mg/L	98.93 %
Ba 233.527	497.7	0.0041	0.00008	mg/L	0.0041	0.00008	mg/L	1.87 %
Be 313.107	-189.9	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	35.84 %
B 208.959	194.4	0.0186	0.00051	mg/L	0.0186	0.00051	mg/L	2.74 %
Ca 317.933	9,267.9	0.3161	0.00092	mg/L	0.3161	0.00092	mg/L	0.29 %
Cd 228.802	13.4	0.0003	0.00009	mg/L	0.0003	0.00009	mg/L	29.71 %
Co 228.616	-6.7	-0.0001	0.00019	mg/L	-0.0001	0.00019	mg/L	143.95 %
Cr 267.716	150.9	0.0012	0.00008	mg/L	0.0012	0.00008	mg/L	6.69 %
Cu 324.754	915.7	0.0035	0.00035	mg/L	0.0035	0.00035	mg/L	9.96 %
Fe 273.955	130.3	0.0052	0.00022	mg/L	0.0052	0.00022	mg/L	4.32 %
K 766.491R	852.4	0.364	0.0812	mg/L	0.364	0.0812	mg/L	22.27 %
Li 670.781R	143.3	0.002	0.0022	mg/L	0.002	0.0022	mg/L	105.32 %
Mg 279.079R	899.1	0.371	0.0187	mg/L	0.371	0.0187	mg/L	5.04 %
Mn 257.610	41,855.8	0.0571	0.00009	mg/L	0.0571	0.00009	mg/L	0.15 %
Mo 202.030	25.6	0.0014	0.00069	mg/L	0.0014	0.00069	mg/L	48.51 %
Na 589.592R	1,371,402.2	135	0.1	mg/L	135	0.1	mg/L	0.09 %
Ni 231.604	133.1	0.002	0.0003	mg/L	0.002	0.0003	mg/L	12.27 %
Pb 220.353	-6.6	-0.0001	0.00059	mg/L	-0.0001	0.00059	mg/L	650.04 %
Sb 206.833	-7.4	-0.0031	0.00466	mg/L	-0.0031	0.00466	mg/L	148.76 %
Se 196.026	5.7	0.0016	0.00344	mg/L	0.0016	0.00344	mg/L	219.76 %
Sn 189.933	-8.2	-0.0008	0.00063	mg/L	-0.0008	0.00063	mg/L	81.68 %
Sr 421.539R	503.1	0.0007	0.00020	mg/L	0.0007	0.00020	mg/L	30.57 %
Ti 337.280	3.5	0.0000	0.00004	mg/L	0.0000	0.00004	mg/L	634.22 %
Tl 190.800	1.9	0.0010	0.00142	mg/L	0.0010	0.00142	mg/L	147.88 %
V 292.402	124.8	0.0006	0.00028	mg/L	0.0006	0.00028	mg/L	48.97 %
Zn 206.191	228.6	0.0040	0.00015	mg/L	0.0040	0.00015	mg/L	3.88 %

Mean Data

ID: b302888-01 **Seq. No.:** 72 **A/S Pos:** 450

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:12:20

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	223,882.1	96.78	1.016	%			%	1.05 %
Y 324.227A	1,320,876.0	94.93	0.124	%			%	0.13 %
Ag 328.068	42.5	0.0002	0.00021	mg/L	0.0002	0.00021	mg/L	99.88 %
Al 308.215	-7.2	-0.006	0.0319	mg/L	-0.006	0.0319	mg/L	579.15 %
As 188.979	-2.3	-0.0010	0.00210	mg/L	-0.0010	0.00210	mg/L	201.16 %
Ba 233.527	230.0	0.0019	0.00016	mg/L	0.0019	0.00016	mg/L	8.48 %
Be 313.107	-253.8	-0.0001	0.00003	mg/L	-0.0001	0.00003	mg/L	60.20 %
B 208.959	475.0	0.0459	0.00094	mg/L	0.0459	0.00094	mg/L	2.05 %
Ca 317.933	2,425.4	0.0827	0.00077	mg/L	0.0827	0.00077	mg/L	0.92 %
Cd 228.802	9.9	0.0002	0.00042	mg/L	0.0002	0.00042	mg/L	179.36 %
Co 228.616	-19.5	-0.0004	0.00011	mg/L	-0.0004	0.00011	mg/L	27.92 %
Cr 267.716	15.3	0.0001	0.00047	mg/L	0.0001	0.00047	mg/L	387.46 %
Cu 324.754	389.7	0.0015	0.00044	mg/L	0.0015	0.00044	mg/L	29.75 %
Fe 273.955	355.3	0.0141	0.00060	mg/L	0.0141	0.00060	mg/L	4.28 %
K 766.491R	429.7	0.184	0.0088	mg/L	0.184	0.0088	mg/L	4.78 %
Li 670.781R	-121.7	-0.002	0.0021	mg/L	-0.002	0.0021	mg/L	120.93 %
Mg 279.079R	54.2	0.022	0.0100	mg/L	0.022	0.0100	mg/L	44.96 %
Mn 257.610	188.0	0.0003	0.00001	mg/L	0.0003	0.00001	mg/L	3.72 %
Mo 202.030	14.5	0.0008	0.00009	mg/L	0.0008	0.00009	mg/L	11.75 %
Na 589.592R	563,527.4	55.7	0.06	mg/L	55.7	0.06	mg/L	0.11 %
Ni 231.604	22.5	0.000	0.0004	mg/L	0.000	0.0004	mg/L	86.45 %
Pb 220.353	-2.3	-0.0002	0.00121	mg/L	-0.0002	0.00121	mg/L	583.98 %
Sb 206.833	-15.4	-0.0055	0.00137	mg/L	-0.0055	0.00137	mg/L	24.86 %
Se 196.026	-2.7	-0.0009	0.00159	mg/L	-0.0009	0.00159	mg/L	180.55 %
Sn 189.933	0.7	0.0001	0.00182	mg/L	0.0001	0.00182	mg/L	2,871.11 %
Sr 421.539R	256.9	0.0003	0.00012	mg/L	0.0003	0.00012	mg/L	35.27 %
Ti 337.280	-2.4	0.0000	0.00019	mg/L	0.0000	0.00019	mg/L	5,030.23 %
Tl 190.800	5.4	0.0015	0.00218	mg/L	0.0015	0.00218	mg/L	143.16 %
V 292.402	118.2	0.0005	0.00035	mg/L	0.0005	0.00035	mg/L	64.27 %
Zn 206.191	320.4	0.0055	0.00004	mg/L	0.0055	0.00004	mg/L	0.66 %

Mean Data

ID: CVS **Seq. No.:** 73 **A/S Pos:** 3

2013/06/27 12:15:30 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:14:18

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	223,063.0	96.42	0.596	%				0.62 %
Y 324.227A	1,344,703.8	96.65	0.166	%				0.17 %
Ag 328.068	100,586.0	0.4924	0.00067	mg/L	0.4924			0.14 %
2013/06/27 12:15:29 QC value within limits for Ag 328.068 Recovery = 98.47%								
Al 308.215	6,388.9	4.85	0.064	mg/L	4.85			1.32 %
2013/06/27 12:15:29 QC value within limits for Al 308.215 Recovery = 96.91%								
As 188.979	1,040.9	0.4737	0.00369	mg/L	0.4737			0.78 %
2013/06/27 12:15:29 QC value within limits for As 188.979 Recovery = 94.75%								
Ba 233.527	58,000.4	0.4784	0.00074	mg/L	0.4784			0.16 %
2013/06/27 12:15:29 QC value within limits for Ba 233.527 Recovery = 95.69%								
Be 313.107	218,189.6	0.0481	0.00005	mg/L	0.0481			0.10 %
2013/06/27 12:15:29 QC value within limits for Be 313.107 Recovery = 96.24%								
B 208.959	24,587.1	2.349	0.0191	mg/L	2.349			0.81 %
2013/06/27 12:15:29 QC value within limits for B 208.959 Recovery = 93.97%								
Ca 317.933	139,070.5	4.744	0.0847	mg/L	4.744			1.79 %
2013/06/27 12:15:29 QC value within limits for Ca 317.933 Recovery = 94.88%								
Cd 228.802	2,086.4	0.0491	0.00030	mg/L	0.0491			0.62 %
2013/06/27 12:15:29 QC value within limits for Cd 228.802 Recovery = 98.28%								
Co 228.616	24,033.2	0.4838	0.00283	mg/L	0.4838			0.59 %

2013/06/27 12:15:29 QC value within limits for Co 228.616 Recovery = 96.75%

Cr 267.716	61,448.6	0.4884	0.00036	mg/L	0.4884	0.07 %

2013/06/27 12:15:29 QC value within limits for Cr 267.716 Recovery = 97.67%

Cu 324.754	127,619.1	0.4887	0.00057	mg/L	0.4887	0.12 %

2013/06/27 12:15:29 QC value within limits for Cu 324.754 Recovery = 97.73%

Fe 273.955	60,853.6	2.414	0.0019	mg/L	2.414	0.08 %

2013/06/27 12:15:29 QC value within limits for Fe 273.955 Recovery = 96.56%

K 766.491R	56,852.7	24.3	0.03	mg/L	24.3	0.11 %

2013/06/27 12:15:29 QC value within limits for K 766.491R Recovery = 97.23%

Li 670.781R	34,046.8	0.487	0.0010	mg/L	0.487	0.20 %

2013/06/27 12:15:29 QC value within limits for Li 670.781R Recovery = 97.35%

Mg 279.079R	11,412.7	4.71	0.094	mg/L	4.71	1.99 %

2013/06/27 12:15:29 QC value within limits for Mg 279.079R Recovery = 94.13%

Mn 257.610	355,431.9	0.4852	0.00029	mg/L	0.4852	0.06 %

2013/06/27 12:15:29 QC value within limits for Mn 257.610 Recovery = 97.05%

Mo 202.030	8,960.2	0.4811	0.00275	mg/L	0.4811	0.57 %

2013/06/27 12:15:29 QC value within limits for Mo 202.030 Recovery = 96.21%

Na 589.592R	244,979.1	24.2	0.02	mg/L	24.2	0.09 %

2013/06/27 12:15:29 QC value within limits for Na 589.592R Recovery = 96.81%

Ni 231.604	26,582.7	0.480	0.0024	mg/L	0.480	0.50 %

2013/06/27 12:15:29 QC value within limits for Ni 231.604 Recovery = 96.04%

Pb 220.353	5,203.9	0.4784	0.00251	mg/L	0.4784	0.53 %

2013/06/27 12:15:29 QC value within limits for Pb 220.353 Recovery = 95.68%

Sb 206.833	1,334.2	0.4680	0.00385	mg/L	0.4680	0.82 %

2013/06/27 12:15:29 QC value within limits for Sb 206.833 Recovery = 93.61%

Se 196.026	1,417.6	0.4702	0.00717	mg/L	0.4702	1.52 %

2013/06/27 12:15:29 QC value within limits for Se 196.026 Recovery = 94.05%

Sn 189.933	5,100.8	0.4731	0.00388	mg/L	0.4731	0.82 %

2013/06/27 12:15:29 QC value within limits for Sn 189.933 Recovery = 94.61%

Sr 421.539R	370,606.4	0.4850	0.00033	mg/L	0.4850	0.07 %

2013/06/27 12:15:29 QC value within limits for Sr 421.539R Recovery = 97.00%

Ti 337.280	152,050.6	0.2451	0.00025	mg/L	0.2451	0.10 %

2013/06/27 12:15:29 QC value within limits for Ti 337.280 Recovery = 98.05%

Tl 190.800	1,743.4	0.4889	0.00272	mg/L	0.4889	0.56 %

2013/06/27 12:15:29 QC value within limits for Tl 190.800 Recovery = 97.79%

V 292.402	108,192.2	0.4944	0.00088	mg/L	0.4944	0.18 %

2013/06/27 12:15:29 QC value within limits for V 292.402 Recovery = 98.88%

Zn 206.191	27,002.7	0.4675	0.00259	mg/L	0.4675	0.55 %

2013/06/27 12:15:29 QC value within limits for Zn 206.191 Recovery = 93.51%

Mean Data

ID: BLK **Seq. No.:** 74 **A/S Pos:** 1

2013/06/27 12:17:26 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:16:14

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	228,925.0	98.96	1.314	%				1.33 %
Y 324.227A	1,388,371.1	99.78	0.592	%				0.59 %
Ag 328.068	124.9	0.0006	0.00022	mg/L	0.0006			35.76 %

2013/06/27 12:17:24 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	4.7	0.004	0.0358	mg/L	0.004	1,017.38 %

2013/06/27 12:17:24 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	13.3	0.0060	0.00270	mg/L	0.0060	44.72 %

2013/06/27 12:17:24 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-33.4	-0.0003	0.00006	mg/L	-0.0003	22.25 %

2013/06/27 12:17:24 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	383.4	0.0001	0.00005	mg/L	0.0001	55.16 %

2013/06/27 12:17:24 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	121.0	0.0116	0.00213	mg/L	0.0116	18.42 %

2013/06/27 12:17:24 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	79.5	0.0027	0.00213	mg/L	0.0027	78.52 %

2013/06/27 12:17:24 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	14.9	0.0003	0.00029	mg/L	0.0003	83.49 %
2013/06/27 12:17:24 QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616	-31.5	-0.0006	0.00004	mg/L	-0.0006	5.87 %
2013/06/27 12:17:24 QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	55.0	0.0004	0.00055	mg/L	0.0004	126.48 %
2013/06/27 12:17:24 QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.754	-106.0	-0.0004	0.00057	mg/L	-0.0004	141.20 %
2013/06/27 12:17:24 QC value within limits for Cu 324.754 Recovery = Not calculated						
Fe 273.955	87.5	0.0035	0.00056	mg/L	0.0035	16.01 %
2013/06/27 12:17:24 QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.491R	537.5	0.230	0.0142	mg/L	0.230	6.18 %
2013/06/27 12:17:24 QC value within limits for K 766.491R Recovery = Not calculated						
Li 670.781R	-82.3	-0.001	0.0005	mg/L	-0.001	45.01 %
2013/06/27 12:17:24 QC value within limits for Li 670.781R Recovery = Not calculated						
Mg 279.079R	57.5	0.024	0.0210	mg/L	0.024	88.48 %
2013/06/27 12:17:24 QC value within limits for Mg 279.079R Recovery = Not calculated						
Mn 257.610	2.5	0.0000	0.00003	mg/L	0.0000	804.09 %
2013/06/27 12:17:24 QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	39.2	0.0021	0.00010	mg/L	0.0021	4.97 %
2013/06/27 12:17:24 QC value within limits for Mo 202.030 Recovery = Not calculated						
Na 589.592R	1,462.2	0.144	0.0062	mg/L	0.144	4.30 %
2013/06/27 12:17:24 QC value within limits for Na 589.592R Recovery = Not calculated						
Ni 231.604	47.6	0.001	0.0003	mg/L	0.001	32.78 %
2013/06/27 12:17:24 QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	35.3	0.0032	0.00048	mg/L	0.0032	14.84 %
2013/06/27 12:17:24 QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-14.4	-0.0052	0.00124	mg/L	-0.0052	24.07 %
2013/06/27 12:17:24 QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	-0.7	-0.0002	0.00079	mg/L	-0.0002	318.29 %
2013/06/27 12:17:25 QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.933	0.8	0.0001	0.00010	mg/L	0.0001	140.26 %
2013/06/27 12:17:25 QC value within limits for Sn 189.933 Recovery = Not calculated						
Sr 421.539R	44.8	0.0001	0.00009	mg/L	0.0001	161.91 %
2013/06/27 12:17:24 QC value within limits for Sr 421.539R Recovery = Not calculated						
Ti 337.280	153.8	0.0002	0.00017	mg/L	0.0002	68.22 %
2013/06/27 12:17:25 QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	22.1	0.0062	0.00036	mg/L	0.0062	5.75 %
2013/06/27 12:17:25 QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	108.1	0.0005	0.00025	mg/L	0.0005	48.99 %
2013/06/27 12:17:25 QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.191	138.8	0.0024	0.00016	mg/L	0.0024	6.68 %
2013/06/27 12:17:25 QC value within limits for Zn 206.191 Recovery = Not calculated						

Mean Data

ID: b302901-01 **Seq. No.:** 75 **A/S Pos:** 451

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:18:12

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,561.9	97.50	0.573	%			%	0.59 %
Y 324.227A	1,348,904.2	96.95	0.511	%			%	0.53 %
Ag 328.068	203.7	0.0010	0.00101	mg/L	0.0010	0.00101	mg/L	105.84 %
Al 308.215	126.8	0.096	0.0284	mg/L	0.096	0.0284	mg/L	29.40 %
As 188.979	-4.2	-0.0018	0.00200	mg/L	-0.0018	0.00200	mg/L	110.07 %
Ba 233.527	1,082.1	0.0089	0.00011	mg/L	0.0089	0.00011	mg/L	1.23 %
Be 313.107	-68.1	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	121.35 %
B 208.959	1,821.8	0.1763	0.00208	mg/L	0.1763	0.00208	mg/L	1.18 %
Ca 317.933	77,720.2	2.651	0.0090	mg/L	2.651	0.0090	mg/L	0.34 %
Cd 228.802	13.7	0.0003	0.00012	mg/L	0.0003	0.00012	mg/L	37.63 %
Co 228.616	-11.8	-0.0002	0.00010	mg/L	-0.0002	0.00010	mg/L	42.99 %
Cr 267.716	157.9	0.0012	0.00043	mg/L	0.0012	0.00043	mg/L	35.02 %
Cu 324.754	12,810.3	0.0491	0.00063	mg/L	0.0491	0.00063	mg/L	1.29 %

Fe 273.955	890.3	0.0354	0.00100	mg/L	0.0354	0.00100	mg/L	2.83	%
K 766.491R	119,905.6	51.3	0.14	mg/L	51.3	0.14	mg/L	0.28	%
Li 670.781R	-32.6	0.000	0.0030	mg/L	0.000	0.0030	mg/L	633.28	%
Mg 279.079R	1,721.5	0.710	0.0028	mg/L	0.710	0.0028	mg/L	0.40	%
Mn 257.610	42,881.8	0.0585	0.00019	mg/L	0.0585	0.00019	mg/L	0.33	%
Mo 202.030	36.8	0.0019	0.00068	mg/L	0.0019	0.00068	mg/L	35.02	%
Na 589.592R	370,085.0	36.6	0.09	mg/L	36.6	0.09	mg/L	0.24	%
Ni 231.604	57.4	0.001	0.0004	mg/L	0.001	0.0004	mg/L	36.23	%
Pb 220.353	20.2	0.0019	0.00030	mg/L	0.0019	0.00030	mg/L	15.74	%
Sb 206.833	-1.0	-0.0005	0.00413	mg/L	-0.0005	0.00413	mg/L	861.15	%
Se 196.026	15.4	0.0050	0.00159	mg/L	0.0050	0.00159	mg/L	32.13	%
Sn 189.933	15.1	0.0013	0.00156	mg/L	0.0013	0.00156	mg/L	120.33	%
Sr 421.539R	5,312.8	0.0070	0.00007	mg/L	0.0070	0.00007	mg/L	0.97	%
Ti 337.280	199.1	0.0003	0.00011	mg/L	0.0003	0.00011	mg/L	34.61	%
Tl 190.800	7.6	0.0024	0.00091	mg/L	0.0024	0.00091	mg/L	37.85	%
V 292.402	39.0	0.0002	0.00004	mg/L	0.0002	0.00004	mg/L	22.72	%
Zn 206.191	991.6	0.0171	0.00022	mg/L	0.0171	0.00022	mg/L	1.28	%

Mean Data

ID: b302901-02 **Seq. No.:** 76 **A/S Pos:** 452

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:20:08

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	225,670.9	97.55	0.386	%			%	0.40	%
Y 324.227A	1,342,775.0	96.51	0.039	%			%	0.04	%
Ag 328.068	121.2	0.0006	0.00043	mg/L	0.0006	0.00043	mg/L	72.43	%
Al 308.215	-14.7	-0.011	0.0427	mg/L	-0.011	0.0427	mg/L	378.66	%
As 188.979	-8.6	-0.0039	0.00309	mg/L	-0.0039	0.00309	mg/L	79.96	%
Ba 233.527	495.3	0.0041	0.00014	mg/L	0.0041	0.00014	mg/L	3.34	%
Be 313.107	-208.8	0.0000	0.00001	mg/L	0.0000	0.00001	mg/L	21.27	%
B 208.959	203.7	0.0196	0.00129	mg/L	0.0196	0.00129	mg/L	6.58	%
Ca 317.933	4,754.3	0.1622	0.00251	mg/L	0.1622	0.00251	mg/L	1.55	%
Cd 228.802	15.0	0.0004	0.00013	mg/L	0.0004	0.00013	mg/L	37.59	%
Co 228.616	-18.9	-0.0004	0.00016	mg/L	-0.0004	0.00016	mg/L	40.46	%
Cr 267.716	243.8	0.0019	0.00055	mg/L	0.0019	0.00055	mg/L	28.46	%
Cu 324.754	296.7	0.0011	0.00014	mg/L	0.0011	0.00014	mg/L	12.58	%
Fe 273.955	531.0	0.0211	0.00026	mg/L	0.0211	0.00026	mg/L	1.23	%
K 766.491R	837.2	0.358	0.0471	mg/L	0.358	0.0471	mg/L	13.16	%
Li 670.781R	59.8	0.001	0.0016	mg/L	0.001	0.0016	mg/L	186.13	%
Mg 279.079R	141.1	0.058	0.0194	mg/L	0.058	0.0194	mg/L	33.40	%
Mn 257.610	375.4	0.0005	0.00001	mg/L	0.0005	0.00001	mg/L	2.38	%
Mo 202.030	36.5	0.0020	0.00051	mg/L	0.0020	0.00051	mg/L	25.79	%
Na 589.592R	931,064.4	92.0	0.02	mg/L	92.0	0.02	mg/L	0.02	%
Ni 231.604	53.2	0.001	0.0003	mg/L	0.001	0.0003	mg/L	28.78	%
Pb 220.353	11.3	0.0010	0.00069	mg/L	0.0010	0.00069	mg/L	66.63	%
Sb 206.833	-1.8	-0.0007	0.00234	mg/L	-0.0007	0.00234	mg/L	335.44	%
Se 196.026	2.7	0.0009	0.00410	mg/L	0.0009	0.00410	mg/L	452.46	%
Sn 189.933	-2.6	-0.0002	0.00115	mg/L	-0.0002	0.00115	mg/L	461.24	%
Sr 421.539R	340.6	0.0004	0.00018	mg/L	0.0004	0.00018	mg/L	39.34	%
Ti 337.280	6,012.8	0.0097	0.00090	mg/L	0.0097	0.00090	mg/L	9.29	%
Tl 190.800	2.1	0.0006	0.00387	mg/L	0.0006	0.00387	mg/L	648.72	%
V 292.402	80.7	0.0004	0.00018	mg/L	0.0004	0.00018	mg/L	48.15	%
Zn 206.191	346.0	0.0060	0.00009	mg/L	0.0060	0.00009	mg/L	1.47	%

Mean Data

ID: b302931-01 **Seq. No.:** 77 **A/S Pos:** 453

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:22:04

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	225,104.6	97.31	0.485	%			%	0.50	%
Y 324.227A	1,339,984.2	96.31	0.495	%			%	0.51	%

Ag 328.068	152.8	0.0007	0.00012	mg/L	0.0007	0.00012	mg/L	16.55 %
Al 308.215	322.1	0.245	0.0221	mg/L	0.245	0.0221	mg/L	9.02 %
As 188.979	-5.9	-0.0025	0.00008	mg/L	-0.0025	0.00008	mg/L	3.29 %
Ba 233.527	1,234.5	0.0102	0.00010	mg/L	0.0102	0.00010	mg/L	0.96 %
Be 313.107	-90.0	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	80.90 %
B 208.959	168.8	0.0163	0.00029	mg/L	0.0163	0.00029	mg/L	1.80 %
Ca 317.933	102,526.6	3.497	0.0054	mg/L	3.497	0.0054	mg/L	0.15 %
Cd 228.802	54.9	0.0013	0.00004	mg/L	0.0013	0.00004	mg/L	3.27 %
Co 228.616	-11.0	-0.0002	0.00005	mg/L	-0.0002	0.00005	mg/L	22.35 %
Cr 267.716	95.9	0.0008	0.00021	mg/L	0.0008	0.00021	mg/L	27.98 %
Cu 324.754	1,777.7	0.0068	0.00024	mg/L	0.0068	0.00024	mg/L	3.55 %
Fe 273.955	203.3	0.0081	0.00063	mg/L	0.0081	0.00063	mg/L	7.81 %
K 766.491R	411.7	0.176	0.0218	mg/L	0.176	0.0218	mg/L	12.38 %
Li 670.781R	61.8	0.001	0.0017	mg/L	0.001	0.0017	mg/L	197.11 %
Mg 279.079R	163.6	0.067	0.0170	mg/L	0.067	0.0170	mg/L	25.13 %
Mn 257.610	14,486.8	0.0198	0.00006	mg/L	0.0198	0.00006	mg/L	0.31 %
Mo 202.030	-4.4	-0.0003	0.00013	mg/L	-0.0003	0.00013	mg/L	45.98 %
Na 589.592R	571,375.6	56.4	0.06	mg/L	56.4	0.06	mg/L	0.11 %
Ni 231.604	48.5	0.001	0.0003	mg/L	0.001	0.0003	mg/L	36.03 %
Pb 220.353	18.6	0.0019	0.00144	mg/L	0.0019	0.00144	mg/L	77.42 %
Sb 206.833	22.2	0.0078	0.00179	mg/L	0.0078	0.00179	mg/L	23.05 %
Se 196.026	14.1	0.0045	0.00235	mg/L	0.0045	0.00235	mg/L	52.23 %
Sn 189.933	12.3	0.0010	0.00065	mg/L	0.0010	0.00065	mg/L	64.22 %
Sr 421.539R	7,334.3	0.0096	0.00012	mg/L	0.0096	0.00012	mg/L	1.29 %
Ti 337.280	37.2	0.0001	0.00012	mg/L	0.0001	0.00012	mg/L	196.96 %
Tl 190.800	-4.9	-0.0012	0.00294	mg/L	-0.0012	0.00294	mg/L	250.92 %
V 292.402	-46.2	-0.0002	0.00053	mg/L	-0.0002	0.00053	mg/L	256.20 %
Zn 206.191	975,894.4	16.82	0.029	mg/L	16.82	0.029	mg/L	0.17 %

Mean Data

ID: b302931-02 **Seq. No.:** 78 **A/S Pos:** 454

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:23:59

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,637.1	97.54	0.778	%			%	0.80 %
Y 324.227A	1,335,548.9	95.99	0.924	%			%	0.96 %
Ag 328.068	9.9	0.0000	0.00024	mg/L	0.0000	0.00024	mg/L	499.26 %
Al 308.215	49.5	0.038	0.0499	mg/L	0.038	0.0499	mg/L	132.47 %
As 188.979	6.8	0.0031	0.00473	mg/L	0.0031	0.00473	mg/L	152.09 %
Ba 233.527	483.5	0.0040	0.00004	mg/L	0.0040	0.00004	mg/L	0.94 %
Be 313.107	-226.2	0.0000	0.00002	mg/L	0.0000	0.00002	mg/L	41.71 %
B 208.959	157.9	0.0152	0.00118	mg/L	0.0152	0.00118	mg/L	7.76 %
Ca 317.933	9,155.1	0.3123	0.00111	mg/L	0.3123	0.00111	mg/L	0.35 %
Cd 228.802	10.3	0.0002	0.00039	mg/L	0.0002	0.00039	mg/L	160.82 %
Co 228.616	-19.3	-0.0004	0.00021	mg/L	-0.0004	0.00021	mg/L	54.39 %
Cr 267.716	42.3	0.0003	0.00019	mg/L	0.0003	0.00019	mg/L	56.83 %
Cu 324.754	294.0	0.0011	0.00063	mg/L	0.0011	0.00063	mg/L	55.74 %
Fe 273.955	172.2	0.0068	0.00103	mg/L	0.0068	0.00103	mg/L	15.10 %
K 766.491R	437.2	0.187	0.0371	mg/L	0.187	0.0371	mg/L	19.85 %
Li 670.781R	-46.5	-0.001	0.0008	mg/L	-0.001	0.0008	mg/L	117.96 %
Mg 279.079R	104.4	0.043	0.0116	mg/L	0.043	0.0116	mg/L	26.94 %
Mn 257.610	563.6	0.0008	0.00001	mg/L	0.0008	0.00001	mg/L	0.87 %
Mo 202.030	26.8	0.0014	0.00053	mg/L	0.0014	0.00053	mg/L	36.55 %
Na 589.592R	524,432.4	51.8	0.06	mg/L	51.8	0.06	mg/L	0.11 %
Ni 231.604	33.3	0.001	0.0002	mg/L	0.001	0.0002	mg/L	36.71 %
Pb 220.353	35.4	0.0033	0.00070	mg/L	0.0033	0.00070	mg/L	21.37 %
Sb 206.833	4.1	0.0014	0.00394	mg/L	0.0014	0.00394	mg/L	275.48 %
Se 196.026	-4.0	-0.0014	0.00542	mg/L	-0.0014	0.00542	mg/L	401.20 %
Sn 189.933	-4.6	-0.0004	0.00107	mg/L	-0.0004	0.00107	mg/L	244.78 %
Sr 421.539R	1,815.6	0.0024	0.00008	mg/L	0.0024	0.00008	mg/L	3.25 %
Ti 337.280	83.4	0.0001	0.00011	mg/L	0.0001	0.00011	mg/L	82.55 %

Tl 190.800	8.3	0.0024	0.00123	mg/L	0.0024	0.00123	mg/L	51.80	%
V 292.402	67.1	0.0003	0.00031	mg/L	0.0003	0.00031	mg/L	98.82	%
Zn 206.191	3,330.2	0.0574	0.00189	mg/L	0.0574	0.00189	mg/L	3.30	%

Mean Data

ID: b302931-03 **Seq. No.:** 79 **A/S Pos:** 455

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:25:55

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	225,602.2	97.52	0.080	%			%	0.08	%
Y 324.227A	1,339,727.0	96.29	0.159	%			%	0.17	%
Ag 328.068	198.9	0.0006	0.00025	mg/L	0.0006	0.00025	mg/L	40.49	%
Al 308.215	29.4	0.022	0.0315	mg/L	0.022	0.0315	mg/L	141.72	%
As 188.979	-2.2	-0.0003	0.00289	mg/L	-0.0003	0.00289	mg/L	1,004.99	%
Ba 233.527	1,576.7	0.0130	0.00009	mg/L	0.0130	0.00009	mg/L	0.72	%
Be 313.107	-188.4	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	74.97	%
B 208.959	149.4	0.0142	0.00105	mg/L	0.0142	0.00105	mg/L	7.41	%
Ca 317.933	752,455.4	25.67	0.030	mg/L	25.67	0.030	mg/L	0.12	%
Cd 228.802	29.3	0.0006	0.00022	mg/L	0.0006	0.00022	mg/L	33.96	%
Co 228.616	163.9	0.0033	0.00009	mg/L	0.0033	0.00009	mg/L	2.75	%
Cr 267.716	101.9	0.0006	0.00016	mg/L	0.0006	0.00016	mg/L	28.81	%
Cu 324.754	331.0	0.0013	0.00020	mg/L	0.0013	0.00020	mg/L	16.23	%
Fe 273.955	13,429.6	0.5334	0.00290	mg/L	0.5334	0.00290	mg/L	0.54	%
K 766.491R	4,271.2	1.83	0.074	mg/L	1.83	0.074	mg/L	4.04	%
Li 670.781R	81.0	0.001	0.0013	mg/L	0.001	0.0013	mg/L	112.53	%
Mg 279.079R	375.7	0.155	0.0109	mg/L	0.155	0.0109	mg/L	7.05	%
Mn 257.610	426,489.6	0.5823	0.00092	mg/L	0.5823	0.00092	mg/L	0.16	%
Mo 202.030	68.0	0.0033	0.00021	mg/L	0.0033	0.00021	mg/L	6.39	%
Na 589.592R	568,571.0	56.2	0.13	mg/L	56.2	0.13	mg/L	0.23	%
Ni 231.604	252.6	0.005	0.0006	mg/L	0.005	0.0006	mg/L	13.93	%
Pb 220.353	-5.6	0.0000	0.00125	mg/L	0.0000	0.00125	mg/L	2,872.91	%
Sb 206.833	-5.9	-0.0028	0.00037	mg/L	-0.0028	0.00037	mg/L	12.97	%
Se 196.026	4.6	0.0002	0.00396	mg/L	0.0002	0.00396	mg/L	2,146.81	%
Sn 189.933	49.0	0.0036	0.00058	mg/L	0.0036	0.00058	mg/L	16.08	%
Sr 421.539R	91,917.1	0.1203	0.00013	mg/L	0.1203	0.00013	mg/L	0.11	%
Ti 337.280	-15.4	0.0000	0.00023	mg/L	0.0000	0.00023	mg/L	947.01	%
Tl 190.800	-12.7	-0.0015	0.00116	mg/L	-0.0015	0.00116	mg/L	79.18	%
V 292.402	13.4	0.0001	0.00022	mg/L	0.0001	0.00022	mg/L	274.58	%
Zn 206.191	110,264.4	1.900	0.0043	mg/L	1.900	0.0043	mg/L	0.22	%

Mean Data

ID: b302932-01 **Seq. No.:** 80 **A/S Pos:** 456

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:27:49

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	225,341.5	97.41	0.406	%			%	0.42	%
Y 324.227A	1,339,274.2	96.26	0.366	%			%	0.38	%
Ag 328.068	-37.6	-0.0001	0.00007	mg/L	-0.0001	0.00007	mg/L	58.08	%
Al 308.215	-11.3	-0.009	0.0186	mg/L	-0.009	0.0186	mg/L	217.62	%
As 188.979	-5.4	-0.0020	0.00167	mg/L	-0.0020	0.00167	mg/L	82.15	%
Ba 233.527	10,962.6	0.0903	0.00118	mg/L	0.0903	0.00118	mg/L	1.31	%
Be 313.107	-82.7	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	173.91	%
B 208.959	153.1	0.0148	0.00150	mg/L	0.0148	0.00150	mg/L	10.09	%
Ca 317.933	26,662.3	0.9095	0.01013	mg/L	0.9095	0.01013	mg/L	1.11	%
Cd 228.802	108.7	0.0026	0.00019	mg/L	0.0026	0.00019	mg/L	7.56	%
Co 228.616	0.1	0.0000	0.00018	mg/L	0.0000	0.00018	mg/L	786.27	%
Cr 267.716	543.8	0.0043	0.00044	mg/L	0.0043	0.00044	mg/L	10.22	%
Cu 324.754	707.7	0.0027	0.00056	mg/L	0.0027	0.00056	mg/L	21.03	%
Fe 273.955	28,380.7	1.127	0.0019	mg/L	1.127	0.0019	mg/L	0.16	%
K 766.491R	299.4	0.128	0.0464	mg/L	0.128	0.0464	mg/L	36.23	%
Li 670.781R	43.5	0.001	0.0002	mg/L	0.001	0.0002	mg/L	30.38	%

Mg 279.079R	192.7	0.079	0.0167	mg/L	0.079	0.0167	mg/L	20.96	%
Mn 257.610	21,574.6	0.0295	0.00015	mg/L	0.0295	0.00015	mg/L	0.51	%
Mo 202.030	-2.5	-0.0001	0.00043	mg/L	-0.0001	0.00043	mg/L	345.42	%
Na 589.592R	572,017.4	56.5	0.13	mg/L	56.5	0.13	mg/L	0.22	%
Ni 231.604	107.8	0.002	0.0003	mg/L	0.002	0.0003	mg/L	16.10	%
Pb 220.353	1,711.2	0.1565	0.00183	mg/L	0.1565	0.00183	mg/L	1.17	%
Sb 206.833	29.0	0.0100	0.00655	mg/L	0.0100	0.00655	mg/L	65.32	%
Se 196.026	9.1	0.0034	0.00320	mg/L	0.0034	0.00320	mg/L	95.13	%
Sn 189.933	16.8	0.0015	0.00018	mg/L	0.0015	0.00018	mg/L	12.00	%
Sr 421.539R	3,608.8	0.0047	0.00014	mg/L	0.0047	0.00014	mg/L	3.01	%
Ti 337.280	307.0	0.0005	0.00031	mg/L	0.0005	0.00031	mg/L	62.14	%
Tl 190.800	-3.8	-0.0008	0.00190	mg/L	-0.0008	0.00190	mg/L	226.73	%
V 292.402	19.3	0.0001	0.00054	mg/L	0.0001	0.00054	mg/L	721.07	%
Zn 206.191	1,090,501.3	18.80	0.037	mg/L	18.80	0.037	mg/L	0.20	%

Mean Data

ID: b302938-01 **Seq. No.:** 81 **A/S Pos:** 457

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2013/06/27 12:29:44

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	226,111.1	97.74	0.718	%			%	0.73	%
Y 324.227A	1,352,444.2	97.20	0.521	%			%	0.54	%
Ag 328.068	60.4	0.0003	0.00041	mg/L	0.0003	0.00041	mg/L	148.41	%
Al 308.215	66.0	0.050	0.0165	mg/L	0.050	0.0165	mg/L	32.94	%
As 188.979	10.2	0.0047	0.00099	mg/L	0.0047	0.00099	mg/L	21.30	%
Ba 233.527	911.7	0.0075	0.00007	mg/L	0.0075	0.00007	mg/L	0.87	%
Be 313.107	-39.2	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	316.08	%
B 208.959	130.5	0.0125	0.00178	mg/L	0.0125	0.00178	mg/L	14.20	%
Ca 317.933	48,480.9	1.654	0.0173	mg/L	1.654	0.0173	mg/L	1.05	%
Cd 228.802	21.6	0.0005	0.00017	mg/L	0.0005	0.00017	mg/L	33.70	%
Co 228.616	-9.3	-0.0002	0.00015	mg/L	-0.0002	0.00015	mg/L	85.71	%
Cr 267.716	-50.2	-0.0004	0.00013	mg/L	-0.0004	0.00013	mg/L	32.43	%
Cu 324.754	246.8	0.0010	0.00034	mg/L	0.0010	0.00034	mg/L	35.40	%
Fe 273.955	338.1	0.0134	0.00080	mg/L	0.0134	0.00080	mg/L	5.98	%
K 766.491R	330.5	0.141	0.0167	mg/L	0.141	0.0167	mg/L	11.80	%
Li 670.781R	-102.8	-0.001	0.0015	mg/L	-0.001	0.0015	mg/L	104.72	%
Mg 279.079R	687.1	0.283	0.0270	mg/L	0.283	0.0270	mg/L	9.52	%
Mn 257.610	23,321.1	0.0318	0.00004	mg/L	0.0318	0.00004	mg/L	0.13	%
Mo 202.030	31.5	0.0017	0.00019	mg/L	0.0017	0.00019	mg/L	11.11	%
Na 589.592R	470,933.6	46.5	0.10	mg/L	46.5	0.10	mg/L	0.23	%
Ni 231.604	37.2	0.001	0.0002	mg/L	0.001	0.0002	mg/L	25.63	%
Pb 220.353	13.8	0.0013	0.00118	mg/L	0.0013	0.00118	mg/L	90.13	%
Sb 206.833	-4.7	-0.0017	0.00171	mg/L	-0.0017	0.00171	mg/L	98.66	%
Se 196.026	-0.7	-0.0003	0.00225	mg/L	-0.0003	0.00225	mg/L	664.33	%
Sn 189.933	-0.1	-0.0001	0.00188	mg/L	-0.0001	0.00188	mg/L	2,572.53	%
Sr 421.539R	9,087.6	0.0119	0.00009	mg/L	0.0119	0.00009	mg/L	0.77	%
Ti 337.280	309.1	0.0005	0.00007	mg/L	0.0005	0.00007	mg/L	14.57	%
Tl 190.800	0.1	0.0002	0.00161	mg/L	0.0002	0.00161	mg/L	979.77	%
V 292.402	120.0	0.0006	0.00001	mg/L	0.0006	0.00001	mg/L	2.03	%
Zn 206.191	1,776.6	0.0306	0.00193	mg/L	0.0306	0.00193	mg/L	6.31	%

Mean Data

ID: d5.b302892-03RE1 **Seq. No.:** 82 **A/S Pos:** 458

Sample Qty: g **Prep. Vol.:** **Dilution:** 1.00 : 5.00 **Date:** 2013/06/27 12:31:47

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	222,396.1	96.14	0.716	%			%	0.74	%
Y 324.227A	1,301,471.5	93.54	0.667	%			%	0.71	%
Ag 328.068	1,072.5	-0.0012	0.00077	mg/L	-0.0061	0.00386	mg/L	63.58	%
Al 308.215	16,564.8	12.6	0.11	mg/L	63.0	0.54	mg/L	0.85	%
As 188.979	-26.7	0.0034	0.00540	mg/L	0.0171	0.02698	mg/L	158.10	%

Ba 233.527	22,157.8	0.1826	0.00111	mg/L	0.9128	0.00554	mg/L	0.61 %
Be 313.107	2,200.9	0.0005	0.00002	mg/L	0.0023	0.00010	mg/L	4.46 %
B 208.959	179.9	0.0153	0.00120	mg/L	0.0766	0.00601	mg/L	7.84 %
Ca 317.933	17,892,384.0	610.3	12.08	mg/L	3052	60.4	mg/L	1.98 %
Cd 228.802	40.8	0.0000	0.00016	mg/L	0.0001	0.00078	mg/L	558.96 %
Co 228.616	66.6	0.0012	0.00012	mg/L	0.0059	0.00060	mg/L	10.18 %
Cr 267.716	3,223.7	0.0256	0.00023	mg/L	0.1280	0.00115	mg/L	0.90 %
Cu 324.754	929.3	0.0037	0.00031	mg/L	0.0187	0.00156	mg/L	8.34 %
Fe 273.955	70,996.3	2.820	0.0052	mg/L	14.10	0.026	mg/L	0.18 %
K 766.491R	1,501.5	0.642	0.0504	mg/L	3.21	0.252	mg/L	7.84 %
Li 670.781R	617.1	0.009	0.0015	mg/L	0.044	0.0077	mg/L	17.52 %
Mg 279.079R	9,776.5	4.03	0.057	mg/L	20.2	0.28	mg/L	1.41 %
Mn 257.610	43,211.6	0.0590	0.00029	mg/L	0.2950	0.00146	mg/L	0.49 %
Mo 202.030	183.7	-0.0001	0.00036	mg/L	-0.0005	0.00181	mg/L	354.01 %
Na 589.592R	3,409.2	0.337	0.0076	mg/L	1.68	0.038	mg/L	2.24 %
Ni 231.604	389.7	0.007	0.0003	mg/L	0.035	0.0016	mg/L	4.62 %
Pb 220.353	45.0	0.0196	0.00116	mg/L	0.0981	0.00579	mg/L	5.90 %
Sb 206.833	32.6	-0.0079	0.00666	mg/L	-0.0397	0.03330	mg/L	83.92 %
Se 196.026	42.8	-0.0043	0.00052	mg/L	-0.0215	0.00258	mg/L	11.98 %
Sn 189.933	220.7	-0.0024	0.00168	mg/L	-0.0118	0.00841	mg/L	71.48 %
Sr 421.539R	918,393.6	1.202	0.0037	mg/L	6.009	0.0183	mg/L	0.30 %
Ti 337.280	56,199.1	0.0906	0.00124	mg/L	0.4530	0.00621	mg/L	1.37 %
Tl 190.800	-30.9	0.0103	0.00235	mg/L	0.0514	0.01173	mg/L	22.84 %
V 292.402	3,778.8	0.0171	0.00007	mg/L	0.0854	0.00036	mg/L	0.42 %
Zn 206.191	1,027.7	0.0181	0.00056	mg/L	0.0906	0.00278	mg/L	3.07 %

Mean Data

ID: d5.b302892-04RE1 **Seq. No.:** 83 **A/S Pos:** 459

Sample Qty: g **Prep. Vol.:** **Dilution:** 1.00 : 5.00 **Date:** 2013/06/27 12:33:48

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	222,155.1	96.03	0.768	%			%	0.80 %
Y 324.227A	1,292,847.0	92.92	0.714	%			%	0.77 %
Ag 328.068	691.2	-0.0006	0.00071	mg/L	-0.0030	0.00356	mg/L	119.72 %
Al 308.215	18,200.0	13.8	0.06	mg/L	69.2	0.28	mg/L	0.40 %
As 188.979	-15.4	0.0067	0.00194	mg/L	0.0334	0.00971	mg/L	29.08 %
Ba 233.527	11,939.3	0.0980	0.00079	mg/L	0.4902	0.00395	mg/L	0.81 %
Be 313.107	3,784.7	0.0007	0.00005	mg/L	0.0036	0.00023	mg/L	6.43 %
B 208.959	342.4	0.0309	0.00200	mg/L	0.1543	0.00998	mg/L	6.46 %
Ca 317.933	12,404,342.7	423.1	4.38	mg/L	2116	21.9	mg/L	1.03 %
Cd 228.802	32.9	0.0001	0.00033	mg/L	0.0006	0.00164	mg/L	254.04 %
Co 228.616	191.2	0.0028	0.00019	mg/L	0.0140	0.00095	mg/L	6.79 %
Cr 267.716	4,529.5	0.0360	0.00016	mg/L	0.1798	0.00082	mg/L	0.46 %
Cu 324.754	3,525.3	0.0137	0.00043	mg/L	0.0686	0.00214	mg/L	3.11 %
Fe 273.955	182,141.3	7.234	0.0197	mg/L	36.17	0.098	mg/L	0.27 %
K 766.491R	1,608.4	0.688	0.0762	mg/L	3.44	0.381	mg/L	11.09 %
Li 670.781R	718.1	0.010	0.0019	mg/L	0.051	0.0094	mg/L	18.28 %
Mg 279.079R	9,495.6	3.92	0.017	mg/L	19.6	0.09	mg/L	0.44 %
Mn 257.610	86,111.9	0.1176	0.00031	mg/L	0.5878	0.00153	mg/L	0.26 %
Mo 202.030	197.5	0.0040	0.00012	mg/L	0.0199	0.00058	mg/L	2.90 %
Na 589.592R	3,062.7	0.303	0.0154	mg/L	1.51	0.077	mg/L	5.09 %
Ni 231.604	951.2	0.017	0.0003	mg/L	0.086	0.0016	mg/L	1.86 %
Pb 220.353	291.2	0.0393	0.00110	mg/L	0.1966	0.00548	mg/L	2.79 %
Sb 206.833	47.7	0.0004	0.00188	mg/L	0.0020	0.00941	mg/L	473.55 %
Se 196.026	49.9	0.0045	0.00310	mg/L	0.0227	0.01551	mg/L	68.20 %
Sn 189.933	190.8	0.0019	0.00024	mg/L	0.0094	0.00120	mg/L	12.79 %
Sr 421.539R	570,991.0	0.7472	0.00104	mg/L	3.736	0.0052	mg/L	0.14 %
Ti 337.280	247,979.9	0.3998	0.00082	mg/L	1.999	0.0041	mg/L	0.20 %
Tl 190.800	-29.2	0.0068	0.00039	mg/L	0.0338	0.00195	mg/L	5.77 %
V 292.402	7,260.0	0.0324	0.00035	mg/L	0.1620	0.00176	mg/L	1.09 %
Zn 206.191	2,673.3	0.0465	0.00022	mg/L	0.2325	0.00108	mg/L	0.46 %

Mean Data

ID: PS.d5.b302809-09 **Seq. No.:** 84 **A/S Pos:** 460

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:35:43

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,866.8	100.2	1.26	%			%	1.25 %
Y 324.227A	1,378,009.9	99.04	0.773	%			%	0.78 %
Ag 328.068	-846.9	-0.0002	0.00014	mg/L	-0.0002	0.00014	mg/L	57.18 %
Al 308.215	11,779.8	8.95	0.004	mg/L	8.95	0.004	mg/L	0.05 %
As 188.979	970.1	0.4425	0.00350	mg/L	0.4425	0.00350	mg/L	0.79 %
Ba 233.527	67,707.9	0.5584	0.00158	mg/L	0.5584	0.00158	mg/L	0.28 %
Be 313.107	208,216.4	0.0459	0.00014	mg/L	0.0459	0.00014	mg/L	0.30 %
B 208.959	22,886.9	2.187	0.0168	mg/L	2.187	0.0168	mg/L	0.77 %
Ca 317.933	46,039.7	1.570	0.0105	mg/L	1.570	0.0105	mg/L	0.67 %
Cd 228.802	1,965.8	0.0463	0.00035	mg/L	0.0463	0.00035	mg/L	0.75 %
Co 228.616	23,125.5	0.4655	0.00332	mg/L	0.4655	0.00332	mg/L	0.71 %
Cr 267.716	60,152.1	0.4781	0.00186	mg/L	0.4781	0.00186	mg/L	0.39 %
Cu 324.754	122,803.0	0.4700	0.00197	mg/L	0.4700	0.00197	mg/L	0.42 %
Fe 273.955	82,610.6	3.278	0.0082	mg/L	3.278	0.0082	mg/L	0.25 %
K 766.491R	82.0	0.035	0.0346	mg/L	0.035	0.0346	mg/L	98.67 %
Li 670.781R	33,693.9	0.482	0.0043	mg/L	0.482	0.0043	mg/L	0.90 %
Mg 279.079R	712.8	0.294	0.0221	mg/L	0.294	0.0221	mg/L	7.52 %
Mn 257.610	341,987.1	0.4669	0.00130	mg/L	0.4669	0.00130	mg/L	0.28 %
Mo 202.030	8,264.0	0.4439	0.00331	mg/L	0.4439	0.00331	mg/L	0.75 %
Na 589.592R	1,919.5	0.190	0.0068	mg/L	0.190	0.0068	mg/L	3.60 %
Ni 231.604	25,911.9	0.468	0.0027	mg/L	0.468	0.0027	mg/L	0.59 %
Pb 220.353	5,145.5	0.4745	0.00402	mg/L	0.4745	0.00402	mg/L	0.85 %
Sb 206.833	1,217.8	0.4249	0.00539	mg/L	0.4249	0.00539	mg/L	1.27 %
Se 196.026	1,328.4	0.4403	0.00348	mg/L	0.4403	0.00348	mg/L	0.79 %
Sn 189.933	4,778.7	0.4433	0.00335	mg/L	0.4433	0.00335	mg/L	0.75 %
Sr 421.539R	578,094.1	0.7565	0.00130	mg/L	0.7565	0.00130	mg/L	0.17 %
Ti 337.280	153,925.0	0.2481	0.00094	mg/L	0.2481	0.00094	mg/L	0.38 %
Tl 190.800	1,701.0	0.4779	0.00354	mg/L	0.4779	0.00354	mg/L	0.74 %
V 292.402	103,002.2	0.4706	0.00137	mg/L	0.4706	0.00137	mg/L	0.29 %
Zn 206.191	27,074.6	0.4688	0.00334	mg/L	0.4688	0.00334	mg/L	0.71 %

Mean Data

ID: CVS **Seq. No.:** 85 **A/S Pos:** 3

2013/06/27 12:38:51 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:37:39

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	222,877.0	96.34	1.342	%				1.39 %
Y 324.227A	1,346,537.7	96.78	0.694	%				0.72 %
Ag 328.068	100,295.8	0.4909	0.00205	mg/L	0.4909			0.42 %
2013/06/27 12:38:50 QC value within limits for Ag 328.068 Recovery = 98.19%								
Al 308.215	6,378.3	4.84	0.047	mg/L	4.84			0.98 %
2013/06/27 12:38:50 QC value within limits for Al 308.215 Recovery = 96.75%								
As 188.979	1,030.5	0.4690	0.00646	mg/L	0.4690			1.38 %
2013/06/27 12:38:50 QC value within limits for As 188.979 Recovery = 93.80%								
Ba 233.527	57,942.3	0.4779	0.00154	mg/L	0.4779			0.32 %
2013/06/27 12:38:50 QC value within limits for Ba 233.527 Recovery = 95.59%								
Be 313.107	217,440.7	0.0480	0.00007	mg/L	0.0480			0.15 %
2013/06/27 12:38:50 QC value within limits for Be 313.107 Recovery = 95.91%								
B 208.959	24,571.6	2.348	0.0123	mg/L	2.348			0.52 %
2013/06/27 12:38:50 QC value within limits for B 208.959 Recovery = 93.91%								
Ca 317.933	140,240.9	4.784	0.0563	mg/L	4.784			1.18 %
2013/06/27 12:38:50 QC value within limits for Ca 317.933 Recovery = 95.67%								
Cd 228.802	2,078.6	0.0490	0.00018	mg/L	0.0490			0.37 %
2013/06/27 12:38:50 QC value within limits for Cd 228.802 Recovery = 97.91%								
Co 228.616	23,930.8	0.4817	0.00292	mg/L	0.4817			0.61 %

2013/06/27 12:38:50 QC value within limits for Co 228.616 Recovery = 96.34%

Cr 267.716	61,217.9	0.4865	0.00068	mg/L	0.4865	0.14 %

2013/06/27 12:38:50 QC value within limits for Cr 267.716 Recovery = 97.31%

Cu 324.754	127,188.5	0.4870	0.00091	mg/L	0.4870	0.19 %

2013/06/27 12:38:50 QC value within limits for Cu 324.754 Recovery = 97.40%

Fe 273.955	60,652.8	2.406	0.0043	mg/L	2.406	0.18 %

2013/06/27 12:38:50 QC value within limits for Fe 273.955 Recovery = 96.25%

K 766.491R	56,520.0	24.2	0.02	mg/L	24.2	0.07 %

2013/06/27 12:38:50 QC value within limits for K 766.491R Recovery = 96.66%

Li 670.781R	33,976.9	0.486	0.0012	mg/L	0.486	0.24 %

2013/06/27 12:38:50 QC value within limits for Li 670.781R Recovery = 97.15%

Mg 279.079R	11,408.2	4.70	0.043	mg/L	4.70	0.92 %

2013/06/27 12:38:50 QC value within limits for Mg 279.079R Recovery = 94.10%

Mn 257.610	354,213.8	0.4836	0.00098	mg/L	0.4836	0.20 %

2013/06/27 12:38:50 QC value within limits for Mn 257.610 Recovery = 96.72%

Mo 202.030	8,948.9	0.4805	0.00255	mg/L	0.4805	0.53 %

2013/06/27 12:38:50 QC value within limits for Mo 202.030 Recovery = 96.09%

Na 589.592R	243,242.5	24.0	0.04	mg/L	24.0	0.16 %

2013/06/27 12:38:50 QC value within limits for Na 589.592R Recovery = 96.13%

Ni 231.604	26,483.3	0.478	0.0026	mg/L	0.478	0.53 %

2013/06/27 12:38:50 QC value within limits for Ni 231.604 Recovery = 95.68%

Pb 220.353	5,194.7	0.4776	0.00157	mg/L	0.4776	0.33 %

2013/06/27 12:38:50 QC value within limits for Pb 220.353 Recovery = 95.51%

Sb 206.833	1,327.2	0.4655	0.00759	mg/L	0.4655	1.63 %

2013/06/27 12:38:50 QC value within limits for Sb 206.833 Recovery = 93.11%

Se 196.026	1,403.9	0.4657	0.00491	mg/L	0.4657	1.05 %

2013/06/27 12:38:50 QC value within limits for Se 196.026 Recovery = 93.14%

Sn 189.933	5,076.5	0.4708	0.00252	mg/L	0.4708	0.53 %

2013/06/27 12:38:50 QC value within limits for Sn 189.933 Recovery = 94.16%

Sr 421.539R	369,092.0	0.4830	0.00069	mg/L	0.4830	0.14 %

2013/06/27 12:38:50 QC value within limits for Sr 421.539R Recovery = 96.60%

Ti 337.280	151,449.5	0.2441	0.00055	mg/L	0.2441	0.23 %

2013/06/27 12:38:50 QC value within limits for Ti 337.280 Recovery = 97.66%

Tl 190.800	1,738.2	0.4875	0.00421	mg/L	0.4875	0.86 %

2013/06/27 12:38:50 QC value within limits for Tl 190.800 Recovery = 97.50%

V 292.402	107,812.5	0.4927	0.00057	mg/L	0.4927	0.11 %

2013/06/27 12:38:50 QC value within limits for V 292.402 Recovery = 98.54%

Zn 206.191	27,092.4	0.4691	0.00220	mg/L	0.4691	0.47 %

2013/06/27 12:38:50 QC value within limits for Zn 206.191 Recovery = 93.82%

Mean Data

ID: BLK **Seq. No.:** 86 **A/S Pos:** 1

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:39:35

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	227,449.6	98.32	0.726	%				0.74 %
Y 324.227A	1,377,691.8	99.02	0.832	%				0.84 %
Ag 328.068	172.7	0.0008	0.00051	mg/L	0.0008			60.39 %

2013/06/27 12:40:52 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	38.6	0.029	0.0069	mg/L	0.029	23.47 %

2013/06/27 12:40:52 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	7.1	0.0032	0.00320	mg/L	0.0032	99.60 %

2013/06/27 12:40:52 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-44.5	-0.0004	0.00010	mg/L	-0.0004	26.53 %

2013/06/27 12:40:52 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	204.4	0.0000	0.00004	mg/L	0.0000	82.74 %

2013/06/27 12:40:52 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	123.7	0.0119	0.00199	mg/L	0.0119	16.74 %

2013/06/27 12:40:52 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	97.0	0.0033	0.00063	mg/L	0.0033	19.13 %

2013/06/27 12:40:52 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	21.4	0.0005	0.00007	mg/L	0.0005	13.95 %
2013/06/27 12:40:52 QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616	-28.7	-0.0006	0.00026	mg/L	-0.0006	44.53 %
2013/06/27 12:40:52 QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	-37.5	-0.0003	0.00047	mg/L	-0.0003	158.37 %
2013/06/27 12:40:52 QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.754	89.8	0.0003	0.00022	mg/L	0.0003	63.08 %
2013/06/27 12:40:52 QC value within limits for Cu 324.754 Recovery = Not calculated						
Fe 273.955	89.9	0.0036	0.00062	mg/L	0.0036	17.31 %
2013/06/27 12:40:52 QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.491R	399.2	0.171	0.0309	mg/L	0.171	18.07 %
2013/06/27 12:40:52 QC value within limits for K 766.491R Recovery = Not calculated						
Li 670.781R	-173.9	-0.002	0.0017	mg/L	-0.002	68.67 %
2013/06/27 12:40:52 QC value within limits for Li 670.781R Recovery = Not calculated						
Mg 279.079R	13.8	0.006	0.0157	mg/L	0.006	274.96 %
2013/06/27 12:40:52 QC value within limits for Mg 279.079R Recovery = Not calculated						
Mn 257.610	-5.9	0.0000	0.00001	mg/L	0.0000	145.92 %
2013/06/27 12:40:52 QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	29.7	0.0016	0.00034	mg/L	0.0016	21.19 %
2013/06/27 12:40:52 QC value within limits for Mo 202.030 Recovery = Not calculated						
Na 589.592R	1,118.7	0.111	0.0134	mg/L	0.111	12.12 %
2013/06/27 12:40:52 QC value within limits for Na 589.592R Recovery = Not calculated						
Ni 231.604	37.9	0.001	0.0004	mg/L	0.001	55.10 %
2013/06/27 12:40:52 QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	27.9	0.0026	0.00043	mg/L	0.0026	16.91 %
2013/06/27 12:40:52 QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-11.0	-0.0040	0.00179	mg/L	-0.0040	45.14 %
2013/06/27 12:40:52 QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	-3.4	-0.0011	0.00357	mg/L	-0.0011	311.52 %
2013/06/27 12:40:52 QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.933	1.4	0.0001	0.00041	mg/L	0.0001	322.42 %
2013/06/27 12:40:52 QC value within limits for Sn 189.933 Recovery = Not calculated						
Sr 421.539R	91.1	0.0001	0.00010	mg/L	0.0001	85.81 %
2013/06/27 12:40:52 QC value within limits for Sr 421.539R Recovery = Not calculated						
Ti 337.280	194.0	0.0003	0.00006	mg/L	0.0003	20.57 %
2013/06/27 12:40:52 QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	18.4	0.0052	0.00271	mg/L	0.0052	52.41 %
2013/06/27 12:40:52 QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	19.6	0.0001	0.00032	mg/L	0.0001	320.70 %
2013/06/27 12:40:52 QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.191	174.3	0.0030	0.00010	mg/L	0.0030	3.47 %
2013/06/27 12:40:52 QC value within limits for Zn 206.191 Recovery = Not calculated						

Mean Data

ID: d5.b302918-01RE1 **Seq. No.:** 87 **A/S Pos:** 301

Sample Qty: g **Prep. Vol.:** **Dilution:** 1.00 : 5.00 **Date:** 2013/06/27 12:41:38

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	224,790.9	97.17	0.681	%			%	0.70 %
Y 324.227A	1,395,236.8	100.3	0.13	%			%	0.13 %
Ag 328.068	10,722.7	0.0540	0.00031	mg/L	0.2698	0.00156	mg/L	0.58 %
Al 308.215	4,431.1	3.37	0.026	mg/L	16.8	0.13	mg/L	0.77 %
As 188.979	-41.9	-0.0032	0.00427	mg/L	-0.0161	0.02133	mg/L	132.06 %
Ba 233.527	712,741.0	5.877	0.0141	mg/L	29.38	0.071	mg/L	0.24 %
Be 313.107	10,644.1	0.0006	0.00003	mg/L	0.0029	0.00014	mg/L	4.60 %
B 208.959	1,450.3	0.1296	0.00007	mg/L	0.6480	0.00033	mg/L	0.05 %
Ca 317.933	129,017.4	4.401	0.0109	mg/L	22.00	0.054	mg/L	0.25 %
Cd 228.802	5,537.9	0.1306	0.00021	mg/L	0.6532	0.00104	mg/L	0.16 %
Co 228.616	1,212.5	0.0145	0.00011	mg/L	0.0724	0.00056	mg/L	0.78 %
Cr 267.716	42,545.3	0.3381	0.00525	mg/L	1.691	0.0263	mg/L	1.55 %
Cu 324.754	9,414.1	0.0388	0.00081	mg/L	0.1938	0.00405	mg/L	2.09 %

Fe 273.955	455,199.6	18.08	0.173	mg/L	90.39	0.866	mg/L	0.96 %
K 766.491R	558.6	0.239	0.0504	mg/L	1.19	0.252	mg/L	21.10 %
Li 670.781R	1,162.4	0.017	0.0017	mg/L	0.083	0.0083	mg/L	10.03 %
Mg 279.079R	4,338.0	1.79	0.006	mg/L	8.95	0.031	mg/L	0.35 %
Mn 257.610	97,434.6	0.1330	0.00187	mg/L	0.6651	0.00934	mg/L	1.40 %
Mo 202.030	3,030.5	0.1630	0.00057	mg/L	0.8150	0.00286	mg/L	0.35 %
Na 589.592R	2,988.2	0.295	0.0113	mg/L	1.48	0.056	mg/L	3.81 %
Ni 231.604	63,011.3	1.14	0.016	mg/L	5.69	0.082	mg/L	1.45 %
Pb 220.353	2,448.2	0.2254	0.00090	mg/L	1.127	0.0045	mg/L	0.40 %
Sb 206.833	187.4	0.0532	0.00161	mg/L	0.2659	0.00807	mg/L	3.03 %
Se 196.026	-25.9	-0.0036	0.00304	mg/L	-0.0178	0.01520	mg/L	85.33 %
Sn 189.933	-36.2	-0.0035	0.00093	mg/L	-0.0176	0.00466	mg/L	26.43 %
Sr 421.539R	103,039.9	0.1348	0.00021	mg/L	0.6742	0.00103	mg/L	0.15 %
Ti 337.280	3,869,782.5	6.238	0.0118	mg/L	31.19	0.059	mg/L	0.19 %
Tl 190.800	-10.4	0.0002	0.00013	mg/L	0.0012	0.00066	mg/L	56.93 %
V 292.402	21,380.7	0.0921	0.00120	mg/L	0.4607	0.00598	mg/L	1.30 %
Zn 206.191	39,153.3	0.6761	0.01095	mg/L	3.380	0.0548	mg/L	1.62 %

Mean Data

ID: 3F26004-blk1 **Seq. No.:** 88 **A/S Pos:** 302

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:43:39

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	222,260.8	96.08	0.926	%			%	0.96 %
Y 324.227A	1,363,842.0	98.02	0.619	%			%	0.63 %
Ag 328.068	97.2	0.0005	0.00027	mg/L	0.0005	0.00027	mg/L	57.98 %
Al 308.215	120.0	0.091	0.0186	mg/L	0.091	0.0186	mg/L	20.39 %
As 188.979	1.9	0.0009	0.00150	mg/L	0.0009	0.00150	mg/L	168.62 %
Ba 233.527	7.8	0.0001	0.00014	mg/L	0.0001	0.00014	mg/L	227.05 %
Be 313.107	-19.1	0.0000	0.00006	mg/L	0.0000	0.00006	mg/L	1,136.98 %
B 208.959	87.4	0.0084	0.00145	mg/L	0.0084	0.00145	mg/L	17.35 %
Ca 317.933	1,479.5	0.0505	0.00170	mg/L	0.0505	0.00170	mg/L	3.37 %
Cd 228.802	12.3	0.0003	0.00010	mg/L	0.0003	0.00010	mg/L	33.23 %
Co 228.616	-14.7	-0.0003	0.00014	mg/L	-0.0003	0.00014	mg/L	47.39 %
Cr 267.716	18.1	0.0001	0.00026	mg/L	0.0001	0.00026	mg/L	178.17 %
Cu 324.754	-25.3	-0.0001	0.00030	mg/L	-0.0001	0.00030	mg/L	313.39 %
Fe 273.955	277.5	0.0110	0.00079	mg/L	0.0110	0.00079	mg/L	7.21 %
K 766.491R	395.6	0.169	0.0489	mg/L	0.169	0.0489	mg/L	28.90 %
Li 670.781R	-136.5	-0.002	0.0008	mg/L	-0.002	0.0008	mg/L	42.50 %
Mg 279.079R	21.7	0.009	0.0099	mg/L	0.009	0.0099	mg/L	110.82 %
Mn 257.610	178.5	0.0002	0.00003	mg/L	0.0002	0.00003	mg/L	11.98 %
Mo 202.030	29.4	0.0016	0.00008	mg/L	0.0016	0.00008	mg/L	4.81 %
Na 589.592R	1,230.4	0.122	0.0082	mg/L	0.122	0.0082	mg/L	6.76 %
Ni 231.604	31.3	0.001	0.0001	mg/L	0.001	0.0001	mg/L	8.84 %
Pb 220.353	-3.0	-0.0002	0.00065	mg/L	-0.0002	0.00065	mg/L	275.89 %
Sb 206.833	9.2	0.0033	0.00136	mg/L	0.0033	0.00136	mg/L	40.47 %
Se 196.026	5.3	0.0017	0.00329	mg/L	0.0017	0.00329	mg/L	189.50 %
Sn 189.933	100.3	0.0093	0.00135	mg/L	0.0093	0.00135	mg/L	14.53 %
Sr 421.539R	179.6	0.0002	0.00014	mg/L	0.0002	0.00014	mg/L	60.03 %
Ti 337.280	1,412.8	0.0023	0.00037	mg/L	0.0023	0.00037	mg/L	16.42 %
Tl 190.800	-5.3	-0.0015	0.00014	mg/L	-0.0015	0.00014	mg/L	9.41 %
V 292.402	24.5	0.0001	0.00038	mg/L	0.0001	0.00038	mg/L	310.72 %
Zn 206.191	566.2	0.0098	0.00030	mg/L	0.0098	0.00030	mg/L	3.03 %

Mean Data

ID: 3F26004-bs1 **Seq. No.:** 89 **A/S Pos:** 303

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:45:34

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	220,648.1	95.38	1.283	%			%	1.34 %
Y 324.227A	1,330,158.9	95.60	0.162	%			%	0.17 %

Ag 328.068	19,725.5	0.0999	0.00037	mg/L	0.0999	0.00037	mg/L	0.37 %
Al 308.215	6,662.4	5.05	0.043	mg/L	5.05	0.043	mg/L	0.85 %
As 188.979	1,055.7	0.4805	0.00487	mg/L	0.4805	0.00487	mg/L	1.01 %
Ba 233.527	58,838.6	0.4853	0.00148	mg/L	0.4853	0.00148	mg/L	0.31 %
Be 313.107	223,365.2	0.0493	0.00010	mg/L	0.0493	0.00010	mg/L	0.20 %
B 208.959	24,854.4	2.375	0.0039	mg/L	2.375	0.0039	mg/L	0.17 %
Ca 317.933	147,132.5	5.019	0.0330	mg/L	5.019	0.0330	mg/L	0.66 %
Cd 228.802	2,135.4	0.0503	0.00014	mg/L	0.0503	0.00014	mg/L	0.28 %
Co 228.616	24,785.5	0.4989	0.00106	mg/L	0.4989	0.00106	mg/L	0.21 %
Cr 267.716	62,842.5	0.4994	0.00094	mg/L	0.4994	0.00094	mg/L	0.19 %
Cu 324.754	131,367.6	0.5030	0.00080	mg/L	0.5030	0.00080	mg/L	0.16 %
Fe 273.955	62,817.5	2.492	0.0062	mg/L	2.492	0.0062	mg/L	0.25 %
K 766.491R	57,831.2	24.7	0.14	mg/L	24.7	0.14	mg/L	0.55 %
Li 670.781R	35,203.5	0.503	0.0027	mg/L	0.503	0.0027	mg/L	0.54 %
Mg 279.079R	11,752.3	4.85	0.056	mg/L	4.85	0.056	mg/L	1.16 %
Mn 257.610	360,697.9	0.4924	0.00087	mg/L	0.4924	0.00087	mg/L	0.18 %
Mo 202.030	9,112.7	0.4893	0.00102	mg/L	0.4893	0.00102	mg/L	0.21 %
Na 589.592R	248,096.3	24.5	0.09	mg/L	24.5	0.09	mg/L	0.37 %
Ni 231.604	27,471.6	0.496	0.0012	mg/L	0.496	0.0012	mg/L	0.24 %
Pb 220.353	5,378.6	0.4945	0.00199	mg/L	0.4945	0.00199	mg/L	0.40 %
Sb 206.833	1,363.3	0.4784	0.00164	mg/L	0.4784	0.00164	mg/L	0.34 %
Se 196.026	1,451.6	0.4815	0.00439	mg/L	0.4815	0.00439	mg/L	0.91 %
Sn 189.933	5,360.4	0.4972	0.00094	mg/L	0.4972	0.00094	mg/L	0.19 %
Sr 421.539R	374,959.0	0.4907	0.00106	mg/L	0.4907	0.00106	mg/L	0.22 %
Ti 337.280	156,010.9	0.2515	0.00039	mg/L	0.2515	0.00039	mg/L	0.16 %
Tl 190.800	1,789.4	0.5018	0.00347	mg/L	0.5018	0.00347	mg/L	0.69 %
V 292.402	111,844.2	0.5110	0.00126	mg/L	0.5110	0.00126	mg/L	0.25 %
Zn 206.191	29,759.5	0.5151	0.00133	mg/L	0.5151	0.00133	mg/L	0.26 %

Mean Data

ID: 3F26004-ms1 **Seq. No.:** 90 **A/S Pos:** 304

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:47:31

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	221,428.5	95.72	0.660	%			%	0.69 %
Y 324.227A	1,335,535.5	95.99	0.426	%			%	0.44 %
Ag 328.068	18,992.4	0.0963	0.00098	mg/L	0.0963	0.00098	mg/L	1.02 %
Al 308.215	25,537.1	19.4	0.05	mg/L	19.4	0.05	mg/L	0.23 %
As 188.979	1,002.3	0.4589	0.00410	mg/L	0.4589	0.00410	mg/L	0.89 %
Ba 233.527	59,342.8	0.4894	0.00090	mg/L	0.4894	0.00090	mg/L	0.18 %
Be 313.107	218,540.5	0.0482	0.00011	mg/L	0.0482	0.00011	mg/L	0.23 %
B 208.959	23,959.3	2.288	0.0149	mg/L	2.288	0.0149	mg/L	0.65 %
Ca 317.933	208,253.5	7.104	0.0156	mg/L	7.104	0.0156	mg/L	0.22 %
Cd 228.802	2,046.6	0.0482	0.00026	mg/L	0.0482	0.00026	mg/L	0.53 %
Co 228.616	24,071.7	0.4843	0.00314	mg/L	0.4843	0.00314	mg/L	0.65 %
Cr 267.716	62,485.3	0.4966	0.00137	mg/L	0.4966	0.00137	mg/L	0.28 %
Cu 324.754	127,132.4	0.4868	0.00090	mg/L	0.4868	0.00090	mg/L	0.18 %
Fe 273.955	96,928.8	3.847	0.0118	mg/L	3.847	0.0118	mg/L	0.31 %
K 766.491R	57,194.0	24.5	0.02	mg/L	24.5	0.02	mg/L	0.10 %
Li 670.781R	35,317.8	0.505	0.0036	mg/L	0.505	0.0036	mg/L	0.70 %
Mg 279.079R	12,995.2	5.36	0.033	mg/L	5.36	0.033	mg/L	0.62 %
Mn 257.610	353,295.2	0.4823	0.00095	mg/L	0.4823	0.00095	mg/L	0.20 %
Mo 202.030	8,664.0	0.4657	0.00241	mg/L	0.4657	0.00241	mg/L	0.52 %
Na 589.592R	247,793.0	24.5	0.43	mg/L	24.5	0.43	mg/L	1.76 %
Ni 231.604	26,790.9	0.484	0.0025	mg/L	0.484	0.0025	mg/L	0.52 %
Pb 220.353	5,230.9	0.4864	0.00177	mg/L	0.4864	0.00177	mg/L	0.36 %
Sb 206.833	1,119.2	0.3859	0.00822	mg/L	0.3859	0.00822	mg/L	2.13 %
Se 196.026	1,396.9	0.4613	0.00185	mg/L	0.4613	0.00185	mg/L	0.40 %
Sn 189.933	5,106.8	0.4735	0.00270	mg/L	0.4735	0.00270	mg/L	0.57 %
Sr 421.539R	485,810.7	0.6358	0.01138	mg/L	0.6358	0.01138	mg/L	1.79 %
Ti 337.280	193,958.2	0.3127	0.00038	mg/L	0.3127	0.00038	mg/L	0.12 %

Tl 190.800	1,717.2	0.4848	0.00123	mg/L	0.4848	0.00123	mg/L	0.25 %
V 292.402	109,844.4	0.5017	0.00079	mg/L	0.5017	0.00079	mg/L	0.16 %
Zn 206.191	28,759.8	0.4982	0.00366	mg/L	0.4982	0.00366	mg/L	0.73 %

Mean Data

ID: 3F26004-msd1 **Seq. No.:** 91 **A/S Pos:** 305

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:49:26

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	221,894.6	95.92	0.657	%			%	0.69 %
Y 324.227A	1,330,533.9	95.63	0.266	%			%	0.28 %
Ag 328.068	19,178.2	0.0972	0.00038	mg/L	0.0972	0.00038	mg/L	0.39 %
Al 308.215	16,219.8	12.3	0.05	mg/L	12.3	0.05	mg/L	0.40 %
As 188.979	1,013.9	0.4630	0.00178	mg/L	0.4630	0.00178	mg/L	0.38 %
Ba 233.527	59,330.1	0.4893	0.00047	mg/L	0.4893	0.00047	mg/L	0.10 %
Be 313.107	218,553.5	0.0482	0.00005	mg/L	0.0482	0.00005	mg/L	0.10 %
B 208.959	24,333.0	2.324	0.0105	mg/L	2.324	0.0105	mg/L	0.45 %
Ca 317.933	226,450.4	7.724	0.0063	mg/L	7.724	0.0063	mg/L	0.08 %
Cd 228.802	2,071.1	0.0488	0.00015	mg/L	0.0488	0.00015	mg/L	0.32 %
Co 228.616	24,303.5	0.4890	0.00202	mg/L	0.4890	0.00202	mg/L	0.41 %
Cr 267.716	61,912.6	0.4921	0.00129	mg/L	0.4921	0.00129	mg/L	0.26 %
Cu 324.754	127,956.5	0.4900	0.00074	mg/L	0.4900	0.00074	mg/L	0.15 %
Fe 273.955	84,375.1	3.348	0.0055	mg/L	3.348	0.0055	mg/L	0.16 %
K 766.491R	57,385.7	24.5	0.10	mg/L	24.5	0.10	mg/L	0.41 %
Li 670.781R	35,060.4	0.501	0.0027	mg/L	0.501	0.0027	mg/L	0.55 %
Mg 279.079R	12,636.5	5.21	0.011	mg/L	5.21	0.011	mg/L	0.21 %
Mn 257.610	352,893.7	0.4818	0.00035	mg/L	0.4818	0.00035	mg/L	0.07 %
Mo 202.030	8,773.1	0.4713	0.00201	mg/L	0.4713	0.00201	mg/L	0.43 %
Na 589.592R	246,554.9	24.4	0.25	mg/L	24.4	0.25	mg/L	1.04 %
Ni 231.604	26,996.3	0.488	0.0023	mg/L	0.488	0.0023	mg/L	0.47 %
Pb 220.353	5,283.8	0.4886	0.00162	mg/L	0.4886	0.00162	mg/L	0.33 %
Sb 206.833	1,228.5	0.4276	0.00425	mg/L	0.4276	0.00425	mg/L	0.99 %
Se 196.026	1,395.8	0.4620	0.00762	mg/L	0.4620	0.00762	mg/L	1.65 %
Sn 189.933	5,177.7	0.4801	0.00235	mg/L	0.4801	0.00235	mg/L	0.49 %
Sr 421.539R	491,106.6	0.6427	0.00632	mg/L	0.6427	0.00632	mg/L	0.98 %
Ti 337.280	194,688.9	0.3138	0.01002	mg/L	0.3138	0.01002	mg/L	3.19 %
Tl 190.800	1,731.0	0.4872	0.00540	mg/L	0.4872	0.00540	mg/L	1.11 %
V 292.402	109,181.5	0.4987	0.00163	mg/L	0.4987	0.00163	mg/L	0.33 %
Zn 206.191	28,998.1	0.5021	0.00241	mg/L	0.5021	0.00241	mg/L	0.48 %

Mean Data

ID: b302920-07 **Seq. No.:** 92 **A/S Pos:** 306

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:51:19

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	227,645.7	98.41	0.628	%			%	0.64 %
Y 324.227A	1,373,691.9	98.73	0.735	%			%	0.74 %
Ag 328.068	70.2	0.0004	0.00072	mg/L	0.0004	0.00072	mg/L	172.27 %
Al 308.215	14,713.2	11.2	0.09	mg/L	11.2	0.09	mg/L	0.77 %
As 188.979	7.4	0.0054	0.00530	mg/L	0.0054	0.00530	mg/L	97.36 %
Ba 233.527	2,542.9	0.0209	0.00024	mg/L	0.0209	0.00024	mg/L	1.17 %
Be 313.107	694.8	0.0001	0.00002	mg/L	0.0001	0.00002	mg/L	19.41 %
B 208.959	240.4	0.0218	0.00243	mg/L	0.0218	0.00243	mg/L	11.15 %
Ca 317.933	105,565.1	3.601	0.0074	mg/L	3.601	0.0074	mg/L	0.21 %
Cd 228.802	19.6	0.0005	0.00005	mg/L	0.0005	0.00005	mg/L	12.00 %
Co 228.616	16.9	0.0001	0.00015	mg/L	0.0001	0.00015	mg/L	165.75 %
Cr 267.716	1,015.1	0.0081	0.00017	mg/L	0.0081	0.00017	mg/L	2.08 %
Cu 324.754	504.7	0.0020	0.00015	mg/L	0.0020	0.00015	mg/L	7.49 %
Fe 273.955	25,819.6	1.025	0.0040	mg/L	1.025	0.0040	mg/L	0.39 %
K 766.491R	956.9	0.409	0.0509	mg/L	0.409	0.0509	mg/L	12.44 %
Li 670.781R	-26.9	0.000	0.0004	mg/L	0.000	0.0004	mg/L	94.48 %

Mg 279.079R	1,391.9	0.574	0.0266	mg/L	0.574	0.0266	mg/L	4.63 %
Mn 257.610	1,999.7	0.0027	0.00002	mg/L	0.0027	0.00002	mg/L	0.69 %
Mo 202.030	54.5	0.0033	0.00075	mg/L	0.0033	0.00075	mg/L	22.85 %
Na 589.592R	2,717.1	0.268	0.0097	mg/L	0.268	0.0097	mg/L	3.62 %
Ni 231.604	208.4	0.004	0.0003	mg/L	0.004	0.0003	mg/L	6.81 %
Pb 220.353	69.2	0.0106	0.00080	mg/L	0.0106	0.00080	mg/L	7.58 %
Sb 206.833	6.3	-0.0018	0.00310	mg/L	-0.0018	0.00310	mg/L	172.03 %
Se 196.026	7.1	0.0006	0.00321	mg/L	0.0006	0.00321	mg/L	499.17 %
Sn 189.933	111.8	0.0102	0.00010	mg/L	0.0102	0.00010	mg/L	0.99 %
Sr 421.539R	182,294.3	0.2386	0.00013	mg/L	0.2386	0.00013	mg/L	0.05 %
Ti 337.280	65,504.5	0.1056	0.00386	mg/L	0.1056	0.00386	mg/L	3.66 %
Tl 190.800	1.1	0.0029	0.00015	mg/L	0.0029	0.00015	mg/L	5.15 %
V 292.402	1,367.8	0.0061	0.00057	mg/L	0.0061	0.00057	mg/L	9.32 %
Zn 206.191	213.5	0.0040	0.00010	mg/L	0.0040	0.00010	mg/L	2.60 %

Mean Data

ID: b302927-01 **Seq. No.:** 93 **A/S Pos:** 307

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:53:17

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,306.3	97.39	0.857	%			%	0.88 %
Y 324.227A	1,337,580.3	96.13	0.425	%			%	0.44 %
Ag 328.068	276.2	0.0015	0.00046	mg/L	0.0015	0.00046	mg/L	30.85 %
Al 308.215	53,223.2	40.5	0.06	mg/L	40.5	0.06	mg/L	0.14 %
As 188.979	-24.7	0.0103	0.00272	mg/L	0.0103	0.00272	mg/L	26.37 %
Ba 233.527	638,129.2	5.260	0.0081	mg/L	5.260	0.0081	mg/L	0.15 %
Be 313.107	4,456.5	0.0007	0.00003	mg/L	0.0007	0.00003	mg/L	4.10 %
B 208.959	1,149.7	0.1061	0.00167	mg/L	0.1061	0.00167	mg/L	1.57 %
Ca 317.933	5,908,870.7	201.6	2.95	mg/L	201.6	2.95	mg/L	1.46 %
Cd 228.802	768.5	0.0179	0.00020	mg/L	0.0179	0.00020	mg/L	1.11 %
Co 228.616	573.6	0.0125	0.00011	mg/L	0.0125	0.00011	mg/L	0.85 %
Cr 267.716	9,648.9	0.0763	0.00038	mg/L	0.0763	0.00038	mg/L	0.50 %
Cu 324.754	46,544.6	0.1781	0.00034	mg/L	0.1781	0.00034	mg/L	0.19 %
Fe 273.955	828,022.7	32.89	0.040	mg/L	32.89	0.040	mg/L	0.12 %
K 766.491R	5,925.7	2.53	0.046	mg/L	2.53	0.046	mg/L	1.80 %
Li 670.781R	1,329.0	0.019	0.0021	mg/L	0.019	0.0021	mg/L	11.09 %
Mg 279.079R	21,416.2	8.83	0.031	mg/L	8.83	0.031	mg/L	0.35 %
Mn 257.610	645,086.5	0.8807	0.00098	mg/L	0.8807	0.00098	mg/L	0.11 %
Mo 202.030	162.5	0.0075	0.00072	mg/L	0.0075	0.00072	mg/L	9.61 %
Na 589.592R	4,129.9	0.408	0.0051	mg/L	0.408	0.0051	mg/L	1.25 %
Ni 231.604	1,742.8	0.032	0.0004	mg/L	0.032	0.0004	mg/L	1.31 %
Pb 220.353	35,012.5	3.221	0.0164	mg/L	3.221	0.0164	mg/L	0.51 %
Sb 206.833	69.8	0.0005	0.00255	mg/L	0.0005	0.00255	mg/L	498.49 %
Se 196.026	25.1	0.0057	0.00116	mg/L	0.0057	0.00116	mg/L	20.37 %
Sn 189.933	2,387.2	0.2139	0.00184	mg/L	0.2139	0.00184	mg/L	0.86 %
Sr 421.539R	651,024.1	0.8520	0.01259	mg/L	0.8520	0.01259	mg/L	1.48 %
Ti 337.280	448,631.0	0.7232	0.01296	mg/L	0.7232	0.01296	mg/L	1.79 %
Tl 190.800	-62.5	0.0022	0.00223	mg/L	0.0022	0.00223	mg/L	103.34 %
V 292.402	10,633.2	0.0468	0.00037	mg/L	0.0468	0.00037	mg/L	0.79 %
Zn 206.191	326,798.7	5.633	0.0127	mg/L	5.633	0.0127	mg/L	0.22 %

Mean Data

ID: b302927-02 **Seq. No.:** 94 **A/S Pos:** 308

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:55:10

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	230,263.9	99.54	0.417	%			%	0.42 %
Y 324.227A	1,383,624.2	99.44	0.331	%			%	0.33 %
Ag 328.068	-430.7	-0.0008	0.00038	mg/L	-0.0008	0.00038	mg/L	47.54 %
Al 308.215	135,261.6	103	0.7	mg/L	103	0.7	mg/L	0.65 %
As 188.979	-15.7	0.0135	0.00501	mg/L	0.0135	0.00501	mg/L	37.12 %

Ba 233.527	62,435.5	0.5139	0.00068	mg/L	0.5139	0.00068	mg/L	0.13 %
Be 313.107	6,573.3	0.0013	0.00001	mg/L	0.0013	0.00001	mg/L	0.67 %
B 208.959	272.0	0.0143	0.00089	mg/L	0.0143	0.00089	mg/L	6.21 %
Ca 317.933	291,507.2	9.943	0.0027	mg/L	9.943	0.0027	mg/L	0.03 %
Cd 228.802	4.6	0.0001	0.00025	mg/L	0.0001	0.00025	mg/L	221.23 %
Co 228.616	143.3	0.0019	0.00004	mg/L	0.0019	0.00004	mg/L	2.28 %
Cr 267.716	10,503.4	0.0834	0.00070	mg/L	0.0834	0.00070	mg/L	0.84 %
Cu 324.754	837.0	0.0030	0.00032	mg/L	0.0030	0.00032	mg/L	10.63 %
Fe 273.955	444,276.9	17.65	0.023	mg/L	17.65	0.023	mg/L	0.13 %
K 766.491R	1,630.5	0.697	0.0249	mg/L	0.697	0.0249	mg/L	3.58 %
Li 670.781R	1,959.5	0.028	0.0011	mg/L	0.028	0.0011	mg/L	3.92 %
Mg 279.079R	4,794.5	1.98	0.037	mg/L	1.98	0.037	mg/L	1.89 %
Mn 257.610	152,507.9	0.2082	0.00040	mg/L	0.2082	0.00040	mg/L	0.19 %
Mo 202.030	17.2	0.0049	0.00039	mg/L	0.0049	0.00039	mg/L	7.87 %
Na 589.592R	2,674.1	0.264	0.0211	mg/L	0.264	0.0211	mg/L	7.98 %
Ni 231.604	1,260.6	0.023	0.0003	mg/L	0.023	0.0003	mg/L	1.14 %
Pb 220.353	226.1	0.0597	0.00131	mg/L	0.0597	0.00131	mg/L	2.19 %
Sb 206.833	93.7	-0.0062	0.00301	mg/L	-0.0062	0.00301	mg/L	48.53 %
Se 196.026	25.3	-0.0040	0.00131	mg/L	-0.0040	0.00131	mg/L	32.47 %
Sn 189.933	128.6	0.0116	0.00105	mg/L	0.0116	0.00105	mg/L	9.11 %
Sr 421.539R	877,536.4	1.148	0.0014	mg/L	1.148	0.0014	mg/L	0.12 %
Ti 337.280	180,265.2	0.2906	0.00131	mg/L	0.2906	0.00131	mg/L	0.45 %
Tl 190.800	-62.2	0.0069	0.00235	mg/L	0.0069	0.00235	mg/L	34.19 %
V 292.402	7,663.3	0.0342	0.00018	mg/L	0.0342	0.00018	mg/L	0.52 %
Zn 206.191	2,177.0	0.0404	0.00095	mg/L	0.0404	0.00095	mg/L	2.35 %

Mean Data

ID: b302927-03 **Seq. No.:** 95 **A/S Pos:** 309

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:57:09

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	239,770.3	103.6	0.43	%			%	0.41 %
Y 324.227A	1,426,002.9	102.5	1.17	%			%	1.14 %
Ag 328.068	-157.9	0.0089	0.00004	mg/L	0.0089	0.00004	mg/L	0.46 %
Al 308.215	200,006.2	152	0.2	mg/L	152	0.2	mg/L	0.15 %
As 188.979	21.8	0.0748	0.00189	mg/L	0.0748	0.00189	mg/L	2.52 %
Ba 233.527	367,331.4	3.023	0.0026	mg/L	3.023	0.0026	mg/L	0.09 %
Be 313.107	110,125.5	0.0234	0.00002	mg/L	0.0234	0.00002	mg/L	0.10 %
B 208.959	1,274.1	0.1020	0.00321	mg/L	0.1020	0.00321	mg/L	3.15 %
Ca 317.933	3,588,813.6	122.4	0.89	mg/L	122.4	0.89	mg/L	0.73 %
Cd 228.802	457.5	0.0108	0.00016	mg/L	0.0108	0.00016	mg/L	1.49 %
Co 228.616	9,087.6	0.1747	0.00236	mg/L	0.1747	0.00236	mg/L	1.35 %
Cr 267.716	28,564.4	0.2268	0.00050	mg/L	0.2268	0.00050	mg/L	0.22 %
Cu 324.754	1,559,157.2	5.966	0.0077	mg/L	5.966	0.0077	mg/L	0.13 %
Fe 273.955	2,920,266.4	116.0	0.14	mg/L	116.0	0.14	mg/L	0.12 %
K 766.491R	74,172.5	31.7	0.05	mg/L	31.7	0.05	mg/L	0.15 %
Li 670.781R	92,718.2	1.33	0.004	mg/L	1.33	0.004	mg/L	0.27 %
Mg 279.079R	31,487.6	13.0	0.04	mg/L	13.0	0.04	mg/L	0.28 %
Mn 257.610	767,533.0	1.048	0.0015	mg/L	1.048	0.0015	mg/L	0.14 %
Mo 202.030	1,079.0	0.0636	0.00085	mg/L	0.0636	0.00085	mg/L	1.34 %
Na 589.592R	93,928.0	9.28	0.019	mg/L	9.28	0.019	mg/L	0.21 %
Ni 231.604	32,275.8	0.583	0.0013	mg/L	0.583	0.0013	mg/L	0.22 %
Pb 220.353	21,203.9	1.999	0.0252	mg/L	1.999	0.0252	mg/L	1.26 %
Sb 206.833	482.9	0.0934	0.00353	mg/L	0.0934	0.00353	mg/L	3.78 %
Se 196.026	-21.9	0.0011	0.00160	mg/L	0.0011	0.00160	mg/L	148.08 %
Sn 189.933	1,043.0	0.0922	0.00155	mg/L	0.0922	0.00155	mg/L	1.68 %
Sr 421.539R	1,413,061.3	1.849	0.0123	mg/L	1.849	0.0123	mg/L	0.67 %
Ti 337.280	1,744,781.3	2.813	0.0021	mg/L	2.813	0.0021	mg/L	0.07 %
Tl 190.800	-139.7	0.0099	0.00414	mg/L	0.0099	0.00414	mg/L	41.90 %
V 292.402	98,473.4	0.4399	0.00046	mg/L	0.4399	0.00046	mg/L	0.10 %
Zn 206.191	418,685.1	7.220	0.0128	mg/L	7.220	0.0128	mg/L	0.18 %

Mean Data

ID: b302927-04 **Seq. No.:** 96 **A/S Pos:** 310

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 12:59:03

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,874.1	100.2	1.12	%			%	1.12 %
Y 324.227A	1,381,828.0	99.31	0.869	%			%	0.88 %
Ag 328.068	-245.0	-0.0002	0.00015	mg/L	-0.0002	0.00015	mg/L	96.72 %
Al 308.215	120,692.6	91.8	1.33	mg/L	91.8	1.33	mg/L	1.45 %
As 188.979	-10.2	0.0136	0.00306	mg/L	0.0136	0.00306	mg/L	22.47 %
Ba 233.527	65,602.9	0.5402	0.00054	mg/L	0.5402	0.00054	mg/L	0.10 %
Be 313.107	5,807.9	0.0012	0.00004	mg/L	0.0012	0.00004	mg/L	3.01 %
B 208.959	268.9	0.0152	0.00098	mg/L	0.0152	0.00098	mg/L	6.42 %
Ca 317.933	486,052.0	16.58	0.037	mg/L	16.58	0.037	mg/L	0.22 %
Cd 228.802	21.6	0.0005	0.00034	mg/L	0.0005	0.00034	mg/L	67.88 %
Co 228.616	146.3	0.0020	0.00016	mg/L	0.0020	0.00016	mg/L	7.74 %
Cr 267.716	9,126.4	0.0725	0.00040	mg/L	0.0725	0.00040	mg/L	0.55 %
Cu 324.754	10,778.0	0.0412	0.00035	mg/L	0.0412	0.00035	mg/L	0.85 %
Fe 273.955	363,661.6	14.44	0.029	mg/L	14.44	0.029	mg/L	0.20 %
K 766.491R	2,540.3	1.09	0.051	mg/L	1.09	0.051	mg/L	4.68 %
Li 670.781R	2,251.8	0.032	0.0016	mg/L	0.032	0.0016	mg/L	5.11 %
Mg 279.079R	4,332.3	1.79	0.031	mg/L	1.79	0.031	mg/L	1.72 %
Mn 257.610	165,734.3	0.2263	0.00052	mg/L	0.2263	0.00052	mg/L	0.23 %
Mo 202.030	42.4	0.0057	0.00065	mg/L	0.0057	0.00065	mg/L	11.37 %
Na 589.592R	3,944.1	0.390	0.0033	mg/L	0.390	0.0033	mg/L	0.84 %
Ni 231.604	1,386.8	0.025	0.0002	mg/L	0.025	0.0002	mg/L	0.88 %
Pb 220.353	1,448.0	0.1674	0.00126	mg/L	0.1674	0.00126	mg/L	0.75 %
Sb 206.833	91.4	-0.0025	0.00478	mg/L	-0.0025	0.00478	mg/L	189.86 %
Se 196.026	26.3	-0.0031	0.00233	mg/L	-0.0031	0.00233	mg/L	75.71 %
Sn 189.933	158.6	0.0141	0.00093	mg/L	0.0141	0.00093	mg/L	6.57 %
Sr 421.539R	773,382.7	1.012	0.0019	mg/L	1.012	0.0019	mg/L	0.19 %
Ti 337.280	215,258.0	0.3470	0.00198	mg/L	0.3470	0.00198	mg/L	0.57 %
Tl 190.800	-58.9	0.0053	0.00057	mg/L	0.0053	0.00057	mg/L	10.77 %
V 292.402	8,528.4	0.0381	0.00017	mg/L	0.0381	0.00017	mg/L	0.44 %
Zn 206.191	8,939.3	0.1567	0.00108	mg/L	0.1567	0.00108	mg/L	0.69 %

Mean Data

ID: CVS **Seq. No.:** 97 **A/S Pos:** 3

2013/06/27 13:02:14 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:01:02

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	228,155.3	98.63	0.672	%				0.68 %
Y 324.227A	1,356,170.9	97.47	1.017	%				1.04 %
Ag 328.068	100,050.9	0.4897	0.00090	mg/L	0.4897			0.18 %
2013/06/27 13:02:12 QC value within limits for Ag 328.068 Recovery = 97.95%								
Al 308.215	6,342.6	4.81	0.021	mg/L	4.81			0.43 %
2013/06/27 13:02:12 QC value within limits for Al 308.215 Recovery = 96.21%								
As 188.979	1,042.6	0.4744	0.00319	mg/L	0.4744			0.67 %
2013/06/27 13:02:12 QC value within limits for As 188.979 Recovery = 94.89%								
Ba 233.527	57,934.6	0.4779	0.00133	mg/L	0.4779			0.28 %
2013/06/27 13:02:12 QC value within limits for Ba 233.527 Recovery = 95.58%								
Be 313.107	217,172.7	0.0479	0.00011	mg/L	0.0479			0.23 %
2013/06/27 13:02:12 QC value within limits for Be 313.107 Recovery = 95.79%								
B 208.959	24,588.7	2.349	0.0175	mg/L	2.349			0.75 %
2013/06/27 13:02:12 QC value within limits for B 208.959 Recovery = 93.97%								
Ca 317.933	138,611.9	4.728	0.0739	mg/L	4.728			1.56 %
2013/06/27 13:02:12 QC value within limits for Ca 317.933 Recovery = 94.56%								
Cd 228.802	2,067.4	0.0487	0.00030	mg/L	0.0487			0.61 %
2013/06/27 13:02:12 QC value within limits for Cd 228.802 Recovery = 97.38%								
Co 228.616	24,015.0	0.4834	0.00263	mg/L	0.4834			0.54 %

2013/06/27 13:02:12 QC value within limits for Co 228.616 Recovery = 96.68%

Cr 267.716	60,998.8	0.4848	0.00100	mg/L	0.4848	0.21 %

2013/06/27 13:02:12 QC value within limits for Cr 267.716 Recovery = 96.96%

Cu 324.754	126,897.8	0.4859	0.00037	mg/L	0.4859	0.08 %

2013/06/27 13:02:12 QC value within limits for Cu 324.754 Recovery = 97.18%

Fe 273.955	60,767.9	2.411	0.0031	mg/L	2.411	0.13 %

2013/06/27 13:02:12 QC value within limits for Fe 273.955 Recovery = 96.43%

K 766.491R	55,220.8	23.6	0.01	mg/L	23.6	0.05 %

2013/06/27 13:02:12 QC value within limits for K 766.491R Recovery = 94.44%

Li 670.781R	33,337.5	0.477	0.0019	mg/L	0.477	0.39 %

2013/06/27 13:02:12 QC value within limits for Li 670.781R Recovery = 95.32%

Mg 279.079R	11,329.7	4.67	0.075	mg/L	4.67	1.60 %

2013/06/27 13:02:12 QC value within limits for Mg 279.079R Recovery = 93.45%

Mn 257.610	353,879.1	0.4831	0.00068	mg/L	0.4831	0.14 %

2013/06/27 13:02:12 QC value within limits for Mn 257.610 Recovery = 96.62%

Mo 202.030	8,985.6	0.4824	0.00268	mg/L	0.4824	0.56 %

2013/06/27 13:02:12 QC value within limits for Mo 202.030 Recovery = 96.49%

Na 589.592R	243,372.6	24.0	0.03	mg/L	24.0	0.11 %

2013/06/27 13:02:12 QC value within limits for Na 589.592R Recovery = 96.18%

Ni 231.604	26,613.5	0.481	0.0027	mg/L	0.481	0.55 %

2013/06/27 13:02:12 QC value within limits for Ni 231.604 Recovery = 96.15%

Pb 220.353	5,224.7	0.4803	0.00342	mg/L	0.4803	0.71 %

2013/06/27 13:02:12 QC value within limits for Pb 220.353 Recovery = 96.06%

Sb 206.833	1,330.0	0.4666	0.00223	mg/L	0.4666	0.48 %

2013/06/27 13:02:12 QC value within limits for Sb 206.833 Recovery = 93.32%

Se 196.026	1,399.8	0.4643	0.00590	mg/L	0.4643	1.27 %

2013/06/27 13:02:12 QC value within limits for Se 196.026 Recovery = 92.87%

Sn 189.933	5,113.6	0.4743	0.00171	mg/L	0.4743	0.36 %

2013/06/27 13:02:12 QC value within limits for Sn 189.933 Recovery = 94.85%

Sr 421.539R	367,924.9	0.4815	0.00066	mg/L	0.4815	0.14 %

2013/06/27 13:02:12 QC value within limits for Sr 421.539R Recovery = 96.30%

Ti 337.280	151,382.8	0.2440	0.00034	mg/L	0.2440	0.14 %

2013/06/27 13:02:12 QC value within limits for Ti 337.280 Recovery = 97.61%

Tl 190.800	1,744.0	0.4891	0.00046	mg/L	0.4891	0.09 %

2013/06/27 13:02:12 QC value within limits for Tl 190.800 Recovery = 97.82%

V 292.402	107,612.9	0.4918	0.00146	mg/L	0.4918	0.30 %

2013/06/27 13:02:12 QC value within limits for V 292.402 Recovery = 98.36%

Zn 206.191	27,264.4	0.4720	0.00245	mg/L	0.4720	0.52 %

2013/06/27 13:02:12 QC value within limits for Zn 206.191 Recovery = 94.41%

Mean Data

ID: BLK **Seq. No.:** 98 **A/S Pos:** 1

2013/06/27 13:04:16 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:02:58

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,622.0	100.1	0.77	%				0.77 %
Y 324.227A	1,389,975.2	99.90	0.370	%				0.37 %
Ag 328.068	166.3	0.0008	0.00058	mg/L	0.0008			71.35 %

2013/06/27 13:04:14 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	-3.0	-0.002	0.0393	mg/L	-0.002	1,697.85 %

2013/06/27 13:04:14 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	7.2	0.0032	0.00163	mg/L	0.0032	50.33 %

2013/06/27 13:04:14 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-40.3	-0.0003	0.00012	mg/L	-0.0003	35.91 %

2013/06/27 13:04:14 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	419.4	0.0001	0.00002	mg/L	0.0001	21.36 %

2013/06/27 13:04:14 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	122.5	0.0117	0.00115	mg/L	0.0117	9.81 %

2013/06/27 13:04:14 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	98.7	0.0034	0.00302	mg/L	0.0034	89.69 %

2013/06/27 13:04:14 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	18.5	0.0004	0.00025	mg/L	0.0004	57.80 %
2013/06/27 13:04:14 QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616	-29.7	-0.0006	0.00023	mg/L	-0.0006	38.99 %
2013/06/27 13:04:14 QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	-7.9	-0.0001	0.00050	mg/L	-0.0001	786.51 %
2013/06/27 13:04:14 QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.754	-193.0	-0.0007	0.00025	mg/L	-0.0007	33.26 %
2013/06/27 13:04:14 QC value within limits for Cu 324.754 Recovery = Not calculated						
Fe 273.955	117.4	0.0047	0.00043	mg/L	0.0047	9.17 %
2013/06/27 13:04:14 QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.491R	303.3	0.130	0.0687	mg/L	0.130	53.01 %
2013/06/27 13:04:14 QC value within limits for K 766.491R Recovery = Not calculated						
Li 670.781R	-112.3	-0.002	0.0009	mg/L	-0.002	55.49 %
2013/06/27 13:04:14 QC value within limits for Li 670.781R Recovery = Not calculated						
Mg 279.079R	22.9	0.009	0.0265	mg/L	0.009	280.94 %
2013/06/27 13:04:14 QC value within limits for Mg 279.079R Recovery = Not calculated						
Mn 257.610	10.2	0.0000	0.00002	mg/L	0.0000	114.79 %
2013/06/27 13:04:14 QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	32.3	0.0017	0.00029	mg/L	0.0017	16.70 %
2013/06/27 13:04:14 QC value within limits for Mo 202.030 Recovery = Not calculated						
Na 589.592R	741.7	0.073	0.0148	mg/L	0.073	20.17 %
2013/06/27 13:04:14 QC value within limits for Na 589.592R Recovery = Not calculated						
Ni 231.604	35.2	0.001	0.0003	mg/L	0.001	45.78 %
2013/06/27 13:04:14 QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	45.6	0.0042	0.00136	mg/L	0.0042	32.63 %
2013/06/27 13:04:14 QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-12.6	-0.0045	0.00381	mg/L	-0.0045	84.60 %
2013/06/27 13:04:14 QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	-9.2	-0.0031	0.00215	mg/L	-0.0031	70.39 %
2013/06/27 13:04:14 QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.933	0.6	0.0001	0.00076	mg/L	0.0001	1,419.10 %
2013/06/27 13:04:14 QC value within limits for Sn 189.933 Recovery = Not calculated						
Sr 421.539R	63.0	0.0001	0.00013	mg/L	0.0001	163.13 %
2013/06/27 13:04:14 QC value within limits for Sr 421.539R Recovery = Not calculated						
Ti 337.280	32.7	0.0001	0.00033	mg/L	0.0001	619.65 %
2013/06/27 13:04:14 QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	17.8	0.0050	0.00139	mg/L	0.0050	27.73 %
2013/06/27 13:04:14 QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	48.4	0.0002	0.00045	mg/L	0.0002	191.67 %
2013/06/27 13:04:14 QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.191	175.8	0.0030	0.00018	mg/L	0.0030	5.86 %
2013/06/27 13:04:14 QC value within limits for Zn 206.191 Recovery = Not calculated						

Mean Data

ID: b302927-05 **Seq. No.:** 99 **A/S Pos:** 311

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:05:12

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	224,936.3	97.23	0.986	%			%	1.01 %
Y 324.227A	1,345,932.6	96.73	0.256	%			%	0.26 %
Ag 328.068	-196.8	0.0044	0.00121	mg/L	0.0044	0.00121	mg/L	27.46 %
Al 308.215	83,470.4	63.5	0.22	mg/L	63.5	0.22	mg/L	0.34 %
As 188.979	-63.7	0.0385	0.00337	mg/L	0.0385	0.00337	mg/L	8.75 %
Ba 233.527	402,696.4	3.312	0.0064	mg/L	3.312	0.0064	mg/L	0.19 %
Be 313.107	33,879.9	0.0068	0.00002	mg/L	0.0068	0.00002	mg/L	0.35 %
B 208.959	913.4	0.0801	0.00136	mg/L	0.0801	0.00136	mg/L	1.69 %
Ca 317.933	13,464,409.4	459.3	4.50	mg/L	459.3	4.50	mg/L	0.98 %
Cd 228.802	2,422.9	0.0563	0.00024	mg/L	0.0563	0.00024	mg/L	0.43 %
Co 228.616	1,590.4	0.0255	0.00024	mg/L	0.0255	0.00024	mg/L	0.95 %
Cr 267.716	23,980.9	0.1900	0.00100	mg/L	0.1900	0.00100	mg/L	0.52 %
Cu 324.754	127,343.8	0.4850	0.00132	mg/L	0.4850	0.00132	mg/L	0.27 %

Fe 273.955	3,629,830.3	144.2	0.20	mg/L	144.2	0.20	mg/L	0.14 %
K 766.491R	18,350.2	7.85	0.086	mg/L	7.85	0.086	mg/L	1.09 %
Li 670.781R	5,639.2	0.081	0.0024	mg/L	0.081	0.0024	mg/L	2.94 %
Mg 279.079R	24,677.8	10.2	0.03	mg/L	10.2	0.03	mg/L	0.26 %
Mn 257.610	1,093,174.0	1.492	0.0020	mg/L	1.492	0.0020	mg/L	0.13 %
Mo 202.030	277.4	0.0119	0.00090	mg/L	0.0119	0.00090	mg/L	7.55 %
Na 589.592R	16,595.7	1.64	0.014	mg/L	1.64	0.014	mg/L	0.83 %
Ni 231.604	3,712.3	0.067	0.0003	mg/L	0.067	0.0003	mg/L	0.40 %
Pb 220.353	27,240.9	2.523	0.0046	mg/L	2.523	0.0046	mg/L	0.18 %
Sb 206.833	207.2	0.0092	0.00321	mg/L	0.0092	0.00321	mg/L	34.75 %
Se 196.026	-75.0	-0.0015	0.00350	mg/L	-0.0015	0.00350	mg/L	236.77 %
Sn 189.933	1,175.1	0.0918	0.00134	mg/L	0.0918	0.00134	mg/L	1.46 %
Sr 421.539R	1,029,043.3	1.347	0.0195	mg/L	1.347	0.0195	mg/L	1.45 %
Ti 337.280	1,058,121.7	1.706	0.0018	mg/L	1.706	0.0018	mg/L	0.10 %
Tl 190.800	-130.6	0.0087	0.00013	mg/L	0.0087	0.00013	mg/L	1.48 %
V 292.402	34,977.8	0.1532	0.00007	mg/L	0.1532	0.00007	mg/L	0.05 %
Zn 206.191	237,065.5	4.086	0.0067	mg/L	4.086	0.0067	mg/L	0.16 %

Mean Data

ID: b302927-06 **Seq. No.:** 100 **A/S Pos:** 312

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:07:07

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,049.3	99.01	0.515	%			%	0.52 %
Y 324.227A	1,380,751.2	99.24	0.583	%			%	0.59 %
Ag 328.068	-386.3	-0.0008	0.00035	mg/L	-0.0008	0.00035	mg/L	45.82 %
Al 308.215	127,107.5	96.7	1.21	mg/L	96.7	1.21	mg/L	1.26 %
As 188.979	1.6	0.0204	0.00322	mg/L	0.0204	0.00322	mg/L	15.78 %
Ba 233.527	90,306.2	0.7437	0.00213	mg/L	0.7437	0.00213	mg/L	0.29 %
Be 313.107	5,218.2	0.0010	0.00002	mg/L	0.0010	0.00002	mg/L	1.81 %
B 208.959	296.0	0.0173	0.00159	mg/L	0.0173	0.00159	mg/L	9.19 %
Ca 317.933	540,925.9	18.45	0.019	mg/L	18.45	0.019	mg/L	0.10 %
Cd 228.802	24.3	0.0006	0.00018	mg/L	0.0006	0.00018	mg/L	32.03 %
Co 228.616	152.2	0.0023	0.00030	mg/L	0.0023	0.00030	mg/L	13.22 %
Cr 267.716	9,838.7	0.0781	0.00051	mg/L	0.0781	0.00051	mg/L	0.65 %
Cu 324.754	6,032.5	0.0229	0.00022	mg/L	0.0229	0.00022	mg/L	0.95 %
Fe 273.955	425,792.5	16.91	0.022	mg/L	16.91	0.022	mg/L	0.13 %
K 766.491R	2,184.5	0.934	0.0295	mg/L	0.934	0.0295	mg/L	3.16 %
Li 670.781R	1,828.4	0.026	0.0019	mg/L	0.026	0.0019	mg/L	7.40 %
Mg 279.079R	4,190.4	1.73	0.018	mg/L	1.73	0.018	mg/L	1.06 %
Mn 257.610	271,072.4	0.3701	0.00077	mg/L	0.3701	0.00077	mg/L	0.21 %
Mo 202.030	44.4	0.0060	0.00058	mg/L	0.0060	0.00058	mg/L	9.56 %
Na 589.592R	3,986.3	0.394	0.0054	mg/L	0.394	0.0054	mg/L	1.38 %
Ni 231.604	1,233.6	0.022	0.0004	mg/L	0.022	0.0004	mg/L	1.86 %
Pb 220.353	1,549.0	0.1785	0.00088	mg/L	0.1785	0.00088	mg/L	0.49 %
Sb 206.833	95.8	-0.0032	0.00169	mg/L	-0.0032	0.00169	mg/L	52.29 %
Se 196.026	22.8	-0.0045	0.00160	mg/L	-0.0045	0.00160	mg/L	35.63 %
Sn 189.933	219.7	0.0197	0.00132	mg/L	0.0197	0.00132	mg/L	6.72 %
Sr 421.539R	791,998.7	1.036	0.0008	mg/L	1.036	0.0008	mg/L	0.08 %
Ti 337.280	191,908.7	0.3094	0.00112	mg/L	0.3094	0.00112	mg/L	0.36 %
Tl 190.800	-59.6	0.0068	0.00104	mg/L	0.0068	0.00104	mg/L	15.37 %
V 292.402	7,740.9	0.0345	0.00004	mg/L	0.0345	0.00004	mg/L	0.12 %
Zn 206.191	10,581.0	0.1851	0.00014	mg/L	0.1851	0.00014	mg/L	0.08 %

Mean Data

ID: b302927-07 **Seq. No.:** 101 **A/S Pos:** 313

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:09:12

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	222,233.4	96.07	0.845	%			%	0.88 %
Y 324.227A	1,307,251.7	93.95	0.523	%			%	0.56 %

Ag 328.068	3,156.1	0.0149	0.00009	mg/L	0.0149	0.00009	mg/L	0.61 %
Al 308.215	68,498.9	52.1	0.06	mg/L	52.1	0.06	mg/L	0.11 %
As 188.979	-28.8	0.0268	0.00368	mg/L	0.0268	0.00368	mg/L	13.73 %
Ba 233.527	442,161.2	3.642	0.0033	mg/L	3.642	0.0033	mg/L	0.09 %
Be 313.107	10,995.0	0.0021	0.00004	mg/L	0.0021	0.00004	mg/L	1.73 %
B 208.959	1,658.2	0.1540	0.00042	mg/L	0.1540	0.00042	mg/L	0.27 %
Ca 317.933	13,338,638.0	455.0	6.57	mg/L	455.0	6.57	mg/L	1.44 %
Cd 228.802	919.5	0.0210	0.00006	mg/L	0.0210	0.00006	mg/L	0.27 %
Co 228.616	951.3	0.0177	0.00021	mg/L	0.0177	0.00021	mg/L	1.19 %
Cr 267.716	19,399.0	0.1530	0.00098	mg/L	0.1530	0.00098	mg/L	0.64 %
Cu 324.754	132,674.5	0.5074	0.00133	mg/L	0.5074	0.00133	mg/L	0.26 %
Fe 273.955	1,706,699.2	67.79	0.120	mg/L	67.79	0.120	mg/L	0.18 %
K 766.491R	13,960.0	5.97	0.053	mg/L	5.97	0.053	mg/L	0.89 %
Li 670.781R	2,189.4	0.031	0.0009	mg/L	0.031	0.0009	mg/L	2.94 %
Mg 279.079R	50,185.8	20.7	0.04	mg/L	20.7	0.04	mg/L	0.18 %
Mn 257.610	2,139,485.5	2.921	0.0046	mg/L	2.921	0.0046	mg/L	0.16 %
Mo 202.030	140.7	0.0033	0.00062	mg/L	0.0033	0.00062	mg/L	18.71 %
Na 589.592R	19,037.2	1.88	0.008	mg/L	1.88	0.008	mg/L	0.45 %
Ni 231.604	3,877.2	0.070	0.0004	mg/L	0.070	0.0004	mg/L	0.57 %
Pb 220.353	29,602.3	2.735	0.0152	mg/L	2.735	0.0152	mg/L	0.55 %
Sb 206.833	143.2	0.0071	0.00552	mg/L	0.0071	0.00552	mg/L	77.57 %
Se 196.026	9.5	0.0005	0.00176	mg/L	0.0005	0.00176	mg/L	354.85 %
Sn 189.933	1,530.2	0.1250	0.00248	mg/L	0.1250	0.00248	mg/L	1.99 %
Sr 421.539R	1,193,213.9	1.561	0.0228	mg/L	1.561	0.0228	mg/L	1.46 %
Ti 337.280	434,163.8	0.6999	0.00107	mg/L	0.6999	0.00107	mg/L	0.15 %
Tl 190.800	-137.4	-0.0008	0.00288	mg/L	-0.0008	0.00288	mg/L	358.71 %
V 292.402	19,130.3	0.0846	0.00078	mg/L	0.0846	0.00078	mg/L	0.92 %
Zn 206.191	327,821.8	5.651	0.0134	mg/L	5.651	0.0134	mg/L	0.24 %

Mean Data

ID: b302927-08 **Seq. No.:** 102 **A/S Pos:** 314

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:11:05

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	223,083.8	96.43	1.196	%			%	1.24 %
Y 324.227A	1,343,471.2	96.56	1.686	%			%	1.75 %
Ag 328.068	-4,508.7	-0.0005	0.00026	mg/L	-0.0005	0.00026	mg/L	55.80 %
Al 308.215	72,516.8	55.2	0.42	mg/L	55.2	0.42	mg/L	0.75 %
As 188.979	-220.9	0.0155	0.00355	mg/L	0.0155	0.00355	mg/L	22.87 %
Ba 233.527	59,645.7	0.4722	0.00684	mg/L	0.4722	0.00684	mg/L	1.45 %
Be 313.107	4,568.5	0.0005	0.00002	mg/L	0.0005	0.00002	mg/L	4.22 %
B 208.959	364.0	0.0288	0.00108	mg/L	0.0288	0.00108	mg/L	3.76 %
Ca 317.933	1,079,952.8	36.84	0.070	mg/L	36.84	0.070	mg/L	0.19 %
Cd 228.802	-82.1	-0.0020	0.00028	mg/L	-0.0020	0.00028	mg/L	14.11 %
Co 228.616	737.3	0.0029	0.00046	mg/L	0.0029	0.00046	mg/L	16.07 %
Cr 267.716	6,274.2	0.0492	0.00066	mg/L	0.0492	0.00066	mg/L	1.34 %
Cu 324.754	19,964.8	0.0678	0.00146	mg/L	0.0678	0.00146	mg/L	2.16 %
Fe 273.955	8,401,003.6	333.7	0.24	mg/L	333.7	0.24	mg/L	0.07 %
K 766.491R	1,441.6	0.616	0.0139	mg/L	0.616	0.0139	mg/L	2.26 %
Li 670.781R	791.4	0.011	0.0001	mg/L	0.011	0.0001	mg/L	0.71 %
Mg 279.079R	5,551.4	2.29	0.035	mg/L	2.29	0.035	mg/L	1.54 %
Mn 257.610	1,219,868.5	1.665	0.0007	mg/L	1.665	0.0007	mg/L	0.04 %
Mo 202.030	11.9	0.0077	0.00156	mg/L	0.0077	0.00156	mg/L	20.26 %
Na 589.592R	2,323.8	0.230	0.0147	mg/L	0.230	0.0147	mg/L	6.42 %
Ni 231.604	934.6	0.017	0.0001	mg/L	0.017	0.0001	mg/L	0.47 %
Pb 220.353	12,311.1	1.147	0.0150	mg/L	1.147	0.0150	mg/L	1.30 %
Sb 206.833	254.6	0.0006	0.00286	mg/L	0.0006	0.00286	mg/L	470.10 %
Se 196.026	-322.0	-0.0053	0.00338	mg/L	-0.0053	0.00338	mg/L	64.18 %
Sn 189.933	277.5	0.0244	0.00063	mg/L	0.0244	0.00063	mg/L	2.58 %
Sr 421.539R	581,702.1	0.7612	0.00073	mg/L	0.7612	0.00073	mg/L	0.10 %
Ti 337.280	100,530.8	0.1621	0.00331	mg/L	0.1621	0.00331	mg/L	2.04 %

Tl 190.800	-191.7	0.0020	0.00403	mg/L	0.0020		0.00403	mg/L	203.17 %
V 292.402	7,581.9	0.0255	0.00037	mg/L	0.0255		0.00037	mg/L	1.45 %
Zn 206.191	56,849.7	0.9767	0.01125	mg/L	0.9767		0.01125	mg/L	1.15 %

Mean Data

ID: b302927-09 **Seq. No.:** 103 **A/S Pos:** 315

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:13:08

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,962.4	100.3	0.76	%			%	0.76 %
Y 324.227A	1,383,760.3	99.45	0.816	%			%	0.82 %
Ag 328.068	1,083.9	0.0060	0.00060	mg/L	0.0060	0.00060	mg/L	10.02 %
Al 308.215	93,369.6	71.0	0.64	mg/L	71.0	0.64	mg/L	0.90 %
As 188.979	-4.4	0.0163	0.00376	mg/L	0.0163	0.00376	mg/L	23.05 %
Ba 233.527	118,687.2	0.9776	0.00145	mg/L	0.9776	0.00145	mg/L	0.15 %
Be 313.107	6,639.6	0.0013	0.00001	mg/L	0.0013	0.00001	mg/L	0.94 %
B 208.959	286.8	0.0192	0.00207	mg/L	0.0192	0.00207	mg/L	10.75 %
Ca 317.933	2,199,229.3	75.02	0.128	mg/L	75.02	0.128	mg/L	0.17 %
Cd 228.802	207.8	0.0048	0.00006	mg/L	0.0048	0.00006	mg/L	1.17 %
Co 228.616	247.1	0.0040	0.00024	mg/L	0.0040	0.00024	mg/L	5.93 %
Cr 267.716	9,738.1	0.0773	0.00072	mg/L	0.0773	0.00072	mg/L	0.93 %
Cu 324.754	39,414.4	0.1507	0.00051	mg/L	0.1507	0.00051	mg/L	0.34 %
Fe 273.955	485,898.6	19.30	0.025	mg/L	19.30	0.025	mg/L	0.13 %
K 766.491R	3,951.2	1.69	0.049	mg/L	1.69	0.049	mg/L	2.93 %
Li 670.781R	1,961.3	0.028	0.0010	mg/L	0.028	0.0010	mg/L	3.43 %
Mg 279.079R	8,115.3	3.35	0.031	mg/L	3.35	0.031	mg/L	0.92 %
Mn 257.610	245,780.0	0.3355	0.00031	mg/L	0.3355	0.00031	mg/L	0.09 %
Mo 202.030	84.1	0.0063	0.00041	mg/L	0.0063	0.00041	mg/L	6.47 %
Na 589.592R	4,245.9	0.419	0.0193	mg/L	0.419	0.0193	mg/L	4.61 %
Ni 231.604	1,459.0	0.026	0.0005	mg/L	0.026	0.0005	mg/L	1.80 %
Pb 220.353	8,215.7	0.7795	0.00816	mg/L	0.7795	0.00816	mg/L	1.05 %
Sb 206.833	72.9	-0.0044	0.00407	mg/L	-0.0044	0.00407	mg/L	92.68 %
Se 196.026	14.7	-0.0034	0.00204	mg/L	-0.0034	0.00204	mg/L	59.59 %
Sn 189.933	544.1	0.0477	0.00087	mg/L	0.0477	0.00087	mg/L	1.82 %
Sr 421.539R	961,301.5	1.258	0.0021	mg/L	1.258	0.0021	mg/L	0.16 %
Ti 337.280	269,901.3	0.4351	0.00352	mg/L	0.4351	0.00352	mg/L	0.81 %
Tl 190.800	-61.4	0.0026	0.00147	mg/L	0.0026	0.00147	mg/L	57.40 %
V 292.402	10,175.9	0.0453	0.00022	mg/L	0.0453	0.00022	mg/L	0.49 %
Zn 206.191	68,268.7	1.179	0.0016	mg/L	1.179	0.0016	mg/L	0.14 %

Mean Data

ID: b302927-10 **Seq. No.:** 104 **A/S Pos:** 316

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:15:02

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	228,457.6	98.76	0.673	%			%	0.68 %
Y 324.227A	1,385,121.0	99.55	0.496	%			%	0.50 %
Ag 328.068	-203.5	-0.0002	0.00071	mg/L	-0.0002	0.00071	mg/L	419.78 %
Al 308.215	107,152.6	81.5	0.72	mg/L	81.5	0.72	mg/L	0.88 %
As 188.979	-15.4	0.0092	0.00395	mg/L	0.0092	0.00395	mg/L	43.12 %
Ba 233.527	52,070.5	0.4287	0.00025	mg/L	0.4287	0.00025	mg/L	0.06 %
Be 313.107	4,832.7	0.0010	0.00003	mg/L	0.0010	0.00003	mg/L	2.80 %
B 208.959	206.4	0.0104	0.00118	mg/L	0.0104	0.00118	mg/L	11.35 %
Ca 317.933	503,750.7	17.18	0.007	mg/L	17.18	0.007	mg/L	0.04 %
Cd 228.802	20.1	0.0005	0.00006	mg/L	0.0005	0.00006	mg/L	12.42 %
Co 228.616	82.9	0.0008	0.00009	mg/L	0.0008	0.00009	mg/L	10.50 %
Cr 267.716	7,933.1	0.0630	0.00056	mg/L	0.0630	0.00056	mg/L	0.90 %
Cu 324.754	2,643.3	0.0100	0.00047	mg/L	0.0100	0.00047	mg/L	4.68 %
Fe 273.955	316,837.3	12.58	0.019	mg/L	12.58	0.019	mg/L	0.15 %
K 766.491R	1,291.7	0.552	0.0644	mg/L	0.552	0.0644	mg/L	11.67 %
Li 670.781R	1,444.2	0.021	0.0018	mg/L	0.021	0.0018	mg/L	8.88 %

Mg 279.079R	3,369.9	1.39	0.009	mg/L	1.39	0.009	mg/L	0.63 %
Mn 257.610	173,803.4	0.2373	0.00052	mg/L	0.2373	0.00052	mg/L	0.22 %
Mo 202.030	30.4	0.0046	0.00061	mg/L	0.0046	0.00061	mg/L	13.18 %
Na 589.592R	3,572.0	0.353	0.0071	mg/L	0.353	0.0071	mg/L	2.02 %
Ni 231.604	1,011.1	0.018	0.0001	mg/L	0.018	0.0001	mg/L	0.53 %
Pb 220.353	476.5	0.0746	0.00118	mg/L	0.0746	0.00118	mg/L	1.59 %
Sb 206.833	71.5	-0.0057	0.00155	mg/L	-0.0057	0.00155	mg/L	27.25 %
Se 196.026	28.2	-0.0013	0.00270	mg/L	-0.0013	0.00270	mg/L	206.96 %
Sn 189.933	151.3	0.0134	0.00067	mg/L	0.0134	0.00067	mg/L	5.01 %
Sr 421.539R	746,544.6	0.9770	0.00018	mg/L	0.9770	0.00018	mg/L	0.02 %
Ti 337.280	185,414.6	0.2989	0.00394	mg/L	0.2989	0.00394	mg/L	1.32 %
Tl 190.800	-51.9	0.0049	0.00085	mg/L	0.0049	0.00085	mg/L	17.23 %
V 292.402	6,295.4	0.0281	0.00017	mg/L	0.0281	0.00017	mg/L	0.59 %
Zn 206.191	4,129.9	0.0735	0.00087	mg/L	0.0735	0.00087	mg/L	1.19 %

Mean Data

ID: b302927-11 **Seq. No.:** 105 **A/S Pos:** 317

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:16:59

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	238,993.5	103.3	0.27	%			%	0.26 %
Y 324.227A	1,429,227.7	102.7	0.86	%			%	0.84 %
Ag 328.068	-429.2	-0.0010	0.00038	mg/L	-0.0010	0.00038	mg/L	38.10 %
Al 308.215	137,963.0	105	0.8	mg/L	105	0.8	mg/L	0.77 %
As 188.979	3.6	0.0237	0.00351	mg/L	0.0237	0.00351	mg/L	14.82 %
Ba 233.527	104,256.9	0.8587	0.00172	mg/L	0.8587	0.00172	mg/L	0.20 %
Be 313.107	7,363.4	0.0015	0.00004	mg/L	0.0015	0.00004	mg/L	2.90 %
B 208.959	363.1	0.0227	0.00077	mg/L	0.0227	0.00077	mg/L	3.41 %
Ca 317.933	1,275,170.2	43.50	0.025	mg/L	43.50	0.025	mg/L	0.06 %
Cd 228.802	97.5	0.0023	0.00016	mg/L	0.0023	0.00016	mg/L	7.31 %
Co 228.616	179.9	0.0028	0.00026	mg/L	0.0028	0.00026	mg/L	9.28 %
Cr 267.716	14,366.6	0.1141	0.00103	mg/L	0.1141	0.00103	mg/L	0.90 %
Cu 324.754	9,599.6	0.0366	0.00019	mg/L	0.0366	0.00019	mg/L	0.52 %
Fe 273.955	465,068.0	18.47	0.043	mg/L	18.47	0.043	mg/L	0.23 %
K 766.491R	2,911.1	1.24	0.028	mg/L	1.24	0.028	mg/L	2.25 %
Li 670.781R	1,297.7	0.019	0.0009	mg/L	0.019	0.0009	mg/L	4.61 %
Mg 279.079R	6,579.5	2.71	0.028	mg/L	2.71	0.028	mg/L	1.03 %
Mn 257.610	135,338.2	0.1848	0.00028	mg/L	0.1848	0.00028	mg/L	0.15 %
Mo 202.030	80.2	0.0078	0.00029	mg/L	0.0078	0.00029	mg/L	3.70 %
Na 589.592R	2,183.9	0.216	0.0031	mg/L	0.216	0.0031	mg/L	1.45 %
Ni 231.604	1,270.8	0.023	0.0003	mg/L	0.023	0.0003	mg/L	1.48 %
Pb 220.353	3,659.2	0.3750	0.00228	mg/L	0.3750	0.00228	mg/L	0.61 %
Sb 206.833	92.4	-0.0089	0.00361	mg/L	-0.0089	0.00361	mg/L	40.53 %
Se 196.026	33.2	-0.0024	0.00208	mg/L	-0.0024	0.00208	mg/L	87.39 %
Sn 189.933	209.0	0.0178	0.00084	mg/L	0.0178	0.00084	mg/L	4.75 %
Sr 421.539R	1,560,126.7	2.042	0.0016	mg/L	2.042	0.0016	mg/L	0.08 %
Ti 337.280	214,037.2	0.3450	0.00338	mg/L	0.3450	0.00338	mg/L	0.98 %
Tl 190.800	-57.5	0.0095	0.00206	mg/L	0.0095	0.00206	mg/L	21.65 %
V 292.402	10,788.5	0.0484	0.00043	mg/L	0.0484	0.00043	mg/L	0.89 %
Zn 206.191	46,762.9	0.8091	0.00326	mg/L	0.8091	0.00326	mg/L	0.40 %

Mean Data

ID: b302927-12 **Seq. No.:** 106 **A/S Pos:** 318

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:18:54

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	230,553.8	99.66	0.273	%			%	0.27 %
Y 324.227A	1,393,635.0	100.2	0.80	%			%	0.80 %
Ag 328.068	-408.6	-0.0009	0.00050	mg/L	-0.0009	0.00050	mg/L	54.08 %
Al 308.215	131,762.1	100	0.2	mg/L	100	0.2	mg/L	0.22 %
As 188.979	-12.2	0.0136	0.00335	mg/L	0.0136	0.00335	mg/L	24.72 %

Ba 233.527	51,532.9	0.4242	0.00110	mg/L	0.4242	0.00110	mg/L	0.26 %
Be 313.107	6,354.0	0.0013	0.00003	mg/L	0.0013	0.00003	mg/L	2.24 %
B 208.959	208.5	0.0085	0.00082	mg/L	0.0085	0.00082	mg/L	9.69 %
Ca 317.933	338,042.5	11.53	0.037	mg/L	11.53	0.037	mg/L	0.32 %
Cd 228.802	10.1	0.0002	0.00008	mg/L	0.0002	0.00008	mg/L	33.98 %
Co 228.616	127.2	0.0015	0.00020	mg/L	0.0015	0.00020	mg/L	13.06 %
Cr 267.716	9,701.1	0.0771	0.00050	mg/L	0.0771	0.00050	mg/L	0.65 %
Cu 324.754	1,431.4	0.0054	0.00033	mg/L	0.0054	0.00033	mg/L	6.06 %
Fe 273.955	342,532.6	13.60	0.041	mg/L	13.60	0.041	mg/L	0.30 %
K 766.491R	1,376.8	0.589	0.0624	mg/L	0.589	0.0624	mg/L	10.60 %
Li 670.781R	1,976.1	0.028	0.0028	mg/L	0.028	0.0028	mg/L	9.88 %
Mg 279.079R	4,120.4	1.70	0.006	mg/L	1.70	0.006	mg/L	0.35 %
Mn 257.610	70,185.0	0.0958	0.00036	mg/L	0.0958	0.00036	mg/L	0.37 %
Mo 202.030	22.1	0.0050	0.00019	mg/L	0.0050	0.00019	mg/L	3.90 %
Na 589.592R	2,156.1	0.213	0.0146	mg/L	0.213	0.0146	mg/L	6.86 %
Ni 231.604	1,408.1	0.025	0.0004	mg/L	0.025	0.0004	mg/L	1.57 %
Pb 220.353	151.4	0.0519	0.00013	mg/L	0.0519	0.00013	mg/L	0.26 %
Sb 206.833	86.9	-0.0068	0.00282	mg/L	-0.0068	0.00282	mg/L	41.72 %
Se 196.026	26.5	-0.0044	0.00262	mg/L	-0.0044	0.00262	mg/L	59.07 %
Sn 189.933	136.1	0.0122	0.00034	mg/L	0.0122	0.00034	mg/L	2.77 %
Sr 421.539R	792,848.6	1.038	0.0028	mg/L	1.038	0.0028	mg/L	0.27 %
Ti 337.280	239,420.8	0.3860	0.00530	mg/L	0.3860	0.00530	mg/L	1.37 %
Tl 190.800	-54.7	0.0077	0.00217	mg/L	0.0077	0.00217	mg/L	28.29 %
V 292.402	8,639.4	0.0386	0.00074	mg/L	0.0386	0.00074	mg/L	1.92 %
Zn 206.191	2,999.9	0.0546	0.00045	mg/L	0.0546	0.00045	mg/L	0.83 %

Mean Data

ID: b302927-13 **Seq. No.:** 107 **A/S Pos:** 319

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:20:50

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,887.2	99.37	0.694	%			%	0.70 %
Y 324.227A	1,367,875.5	98.31	0.729	%			%	0.74 %
Ag 328.068	-42.5	0.0001	0.00012	mg/L	0.0001	0.00012	mg/L	107.17 %
Al 308.215	69,343.1	52.8	0.38	mg/L	52.8	0.38	mg/L	0.71 %
As 188.979	1.8	0.0122	0.00562	mg/L	0.0122	0.00562	mg/L	46.01 %
Ba 233.527	45,225.5	0.3724	0.00082	mg/L	0.3724	0.00082	mg/L	0.22 %
Be 313.107	3,837.9	0.0008	0.00003	mg/L	0.0008	0.00003	mg/L	3.78 %
B 208.959	159.1	0.0090	0.00069	mg/L	0.0090	0.00069	mg/L	7.69 %
Ca 317.933	1,135,804.2	38.74	0.120	mg/L	38.74	0.120	mg/L	0.31 %
Cd 228.802	30.2	0.0007	0.00011	mg/L	0.0007	0.00011	mg/L	16.42 %
Co 228.616	67.8	0.0008	0.00023	mg/L	0.0008	0.00023	mg/L	28.59 %
Cr 267.716	6,256.0	0.0497	0.00036	mg/L	0.0497	0.00036	mg/L	0.72 %
Cu 324.754	6,688.4	0.0255	0.00029	mg/L	0.0255	0.00029	mg/L	1.12 %
Fe 273.955	232,850.6	9.248	0.0226	mg/L	9.248	0.0226	mg/L	0.24 %
K 766.491R	1,270.1	0.543	0.0624	mg/L	0.543	0.0624	mg/L	11.50 %
Li 670.781R	975.1	0.014	0.0016	mg/L	0.014	0.0016	mg/L	11.71 %
Mg 279.079R	3,340.9	1.38	0.020	mg/L	1.38	0.020	mg/L	1.46 %
Mn 257.610	104,962.4	0.1433	0.00034	mg/L	0.1433	0.00034	mg/L	0.24 %
Mo 202.030	77.4	0.0056	0.00032	mg/L	0.0056	0.00032	mg/L	5.72 %
Na 589.592R	3,704.3	0.366	0.0072	mg/L	0.366	0.0072	mg/L	1.95 %
Ni 231.604	719.7	0.013	0.0003	mg/L	0.013	0.0003	mg/L	2.38 %
Pb 220.353	3,451.3	0.3362	0.00155	mg/L	0.3362	0.00155	mg/L	0.46 %
Sb 206.833	47.3	-0.0043	0.00559	mg/L	-0.0043	0.00559	mg/L	130.22 %
Se 196.026	15.3	-0.0022	0.00614	mg/L	-0.0022	0.00614	mg/L	277.50 %
Sn 189.933	245.5	0.0213	0.00133	mg/L	0.0213	0.00133	mg/L	6.23 %
Sr 421.539R	603,799.9	0.7902	0.00198	mg/L	0.7902	0.00198	mg/L	0.25 %
Ti 337.280	132,251.4	0.2132	0.00139	mg/L	0.2132	0.00139	mg/L	0.65 %
Tl 190.800	-40.7	0.0020	0.00193	mg/L	0.0020	0.00193	mg/L	94.81 %
V 292.402	4,586.2	0.0205	0.00012	mg/L	0.0205	0.00012	mg/L	0.59 %
Zn 206.191	14,011.9	0.2430	0.00191	mg/L	0.2430	0.00191	mg/L	0.79 %

Mean Data

ID: b302927-14 **Seq. No.:** 108 **A/S Pos:** 320

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:22:45

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	228,869.6	98.93	0.815	%			%	0.82 %
Y 324.227A	1,382,268.0	99.35	0.737	%			%	0.74 %
Ag 328.068	-130.4	0.0002	0.00082	mg/L	0.0002	0.00082	mg/L	536.03 %
Al 308.215	76,997.9	58.6	0.39	mg/L	58.6	0.39	mg/L	0.67 %
As 188.979	-7.6	0.0084	0.00293	mg/L	0.0084	0.00293	mg/L	34.77 %
Ba 233.527	30,570.2	0.2515	0.00231	mg/L	0.2515	0.00231	mg/L	0.92 %
Be 313.107	4,060.0	0.0008	0.00003	mg/L	0.0008	0.00003	mg/L	3.08 %
B 208.959	133.2	0.0060	0.00064	mg/L	0.0060	0.00064	mg/L	10.68 %
Ca 317.933	178,593.1	6.092	0.0329	mg/L	6.092	0.0329	mg/L	0.54 %
Cd 228.802	8.1	0.0002	0.00006	mg/L	0.0002	0.00006	mg/L	30.07 %
Co 228.616	79.2	0.0009	0.00021	mg/L	0.0009	0.00021	mg/L	23.16 %
Cr 267.716	5,799.5	0.0461	0.00049	mg/L	0.0461	0.00049	mg/L	1.06 %
Cu 324.754	504.7	0.0018	0.00062	mg/L	0.0018	0.00062	mg/L	33.28 %
Fe 273.955	256,924.4	10.20	0.003	mg/L	10.20	0.003	mg/L	0.03 %
K 766.491R	1,009.7	0.432	0.0649	mg/L	0.432	0.0649	mg/L	15.04 %
Li 670.781R	874.8	0.013	0.0013	mg/L	0.013	0.0013	mg/L	10.10 %
Mg 279.079R	2,748.2	1.13	0.029	mg/L	1.13	0.029	mg/L	2.53 %
Mn 257.610	69,973.1	0.0955	0.00027	mg/L	0.0955	0.00027	mg/L	0.28 %
Mo 202.030	26.9	0.0037	0.00012	mg/L	0.0037	0.00012	mg/L	3.25 %
Na 589.592R	2,511.9	0.248	0.0156	mg/L	0.248	0.0156	mg/L	6.29 %
Ni 231.604	699.1	0.013	0.0002	mg/L	0.013	0.0002	mg/L	1.36 %
Pb 220.353	89.5	0.0304	0.00193	mg/L	0.0304	0.00193	mg/L	6.35 %
Sb 206.833	53.4	-0.0034	0.00678	mg/L	-0.0034	0.00678	mg/L	197.23 %
Se 196.026	12.5	-0.0029	0.00071	mg/L	-0.0029	0.00071	mg/L	24.88 %
Sn 189.933	111.8	0.0101	0.00043	mg/L	0.0101	0.00043	mg/L	4.23 %
Sr 421.539R	407,251.2	0.5329	0.00113	mg/L	0.5329	0.00113	mg/L	0.21 %
Ti 337.280	137,390.5	0.2215	0.00174	mg/L	0.2215	0.00174	mg/L	0.79 %
Tl 190.800	-34.1	0.0042	0.00253	mg/L	0.0042	0.00253	mg/L	59.95 %
V 292.402	5,570.1	0.0249	0.00024	mg/L	0.0249	0.00024	mg/L	0.97 %
Zn 206.191	783.5	0.0152	0.00008	mg/L	0.0152	0.00008	mg/L	0.54 %

Mean Data

ID: CVS **Seq. No.:** 109 **A/S Pos:** 3

2013/06/27 13:25:56 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:24:44

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	226,405.6	97.87	1.108	%				1.13 %
Y 324.227A	1,350,509.0	97.06	1.297	%				1.34 %
Ag 328.068	100,208.8	0.4905	0.00123	mg/L	0.4905			0.25 %
2013/06/27 13:25:55 QC value within limits for Ag 328.068 Recovery = 98.10%								
Al 308.215	6,421.4	4.87	0.024	mg/L	4.87			0.49 %
2013/06/27 13:25:55 QC value within limits for Al 308.215 Recovery = 97.40%								
As 188.979	1,044.2	0.4752	0.00517	mg/L	0.4752			1.09 %
2013/06/27 13:25:55 QC value within limits for As 188.979 Recovery = 95.04%								
Ba 233.527	58,115.9	0.4794	0.00072	mg/L	0.4794			0.15 %
2013/06/27 13:25:55 QC value within limits for Ba 233.527 Recovery = 95.88%								
Be 313.107	217,558.1	0.0480	0.00004	mg/L	0.0480			0.09 %
2013/06/27 13:25:55 QC value within limits for Be 313.107 Recovery = 95.96%								
B 208.959	24,669.9	2.357	0.0361	mg/L	2.357			1.53 %
2013/06/27 13:25:55 QC value within limits for B 208.959 Recovery = 94.28%								
Ca 317.933	140,701.7	4.799	0.0340	mg/L	4.799			0.71 %
2013/06/27 13:25:55 QC value within limits for Ca 317.933 Recovery = 95.99%								
Cd 228.802	2,091.3	0.0493	0.00084	mg/L	0.0493			1.70 %
2013/06/27 13:25:55 QC value within limits for Cd 228.802 Recovery = 98.51%								
Co 228.616	24,155.0	0.4862	0.00687	mg/L	0.4862			1.41 %

2013/06/27 13:25:55 QC value within limits for Co 228.616 Recovery = 97.24%

Cr 267.716	61,184.9	0.4863	0.00060	mg/L	0.4863	0.12 %

2013/06/27 13:25:55 QC value within limits for Cr 267.716 Recovery = 97.25%

Cu 324.754	127,094.8	0.4867	0.00085	mg/L	0.4867	0.17 %

2013/06/27 13:25:55 QC value within limits for Cu 324.754 Recovery = 97.33%

Fe 273.955	60,831.7	2.413	0.0029	mg/L	2.413	0.12 %

2013/06/27 13:25:55 QC value within limits for Fe 273.955 Recovery = 96.53%

K 766.491R	55,352.9	23.7	0.12	mg/L	23.7	0.50 %

2013/06/27 13:25:55 QC value within limits for K 766.491R Recovery = 94.66%

Li 670.781R	33,625.9	0.481	0.0020	mg/L	0.481	0.42 %

2013/06/27 13:25:55 QC value within limits for Li 670.781R Recovery = 96.14%

Mg 279.079R	11,584.6	4.78	0.030	mg/L	4.78	0.63 %

2013/06/27 13:25:55 QC value within limits for Mg 279.079R Recovery = 95.55%

Mn 257.610	354,769.1	0.4843	0.00049	mg/L	0.4843	0.10 %

2013/06/27 13:25:55 QC value within limits for Mn 257.610 Recovery = 96.87%

Mo 202.030	9,041.7	0.4854	0.00581	mg/L	0.4854	1.20 %

2013/06/27 13:25:55 QC value within limits for Mo 202.030 Recovery = 97.09%

Na 589.592R	243,679.0	24.1	0.07	mg/L	24.1	0.28 %

2013/06/27 13:25:55 QC value within limits for Na 589.592R Recovery = 96.30%

Ni 231.604	26,749.6	0.483	0.0070	mg/L	0.483	1.45 %

2013/06/27 13:25:55 QC value within limits for Ni 231.604 Recovery = 96.64%

Pb 220.353	5,257.5	0.4833	0.00420	mg/L	0.4833	0.87 %

2013/06/27 13:25:55 QC value within limits for Pb 220.353 Recovery = 96.67%

Sb 206.833	1,338.0	0.4694	0.00522	mg/L	0.4694	1.11 %

2013/06/27 13:25:55 QC value within limits for Sb 206.833 Recovery = 93.88%

Se 196.026	1,421.7	0.4716	0.00754	mg/L	0.4716	1.60 %

2013/06/27 13:25:55 QC value within limits for Se 196.026 Recovery = 94.32%

Sn 189.933	5,134.2	0.4762	0.00554	mg/L	0.4762	1.16 %

2013/06/27 13:25:55 QC value within limits for Sn 189.933 Recovery = 95.23%

Sr 421.539R	369,878.5	0.4840	0.00096	mg/L	0.4840	0.20 %

2013/06/27 13:25:55 QC value within limits for Sr 421.539R Recovery = 96.81%

Ti 337.280	151,693.2	0.2445	0.00016	mg/L	0.2445	0.07 %

2013/06/27 13:25:55 QC value within limits for Ti 337.280 Recovery = 97.81%

Tl 190.800	1,755.0	0.4922	0.00710	mg/L	0.4922	1.44 %

2013/06/27 13:25:55 QC value within limits for Tl 190.800 Recovery = 98.44%

V 292.402	107,723.0	0.4923	0.00091	mg/L	0.4923	0.19 %

2013/06/27 13:25:55 QC value within limits for V 292.402 Recovery = 98.47%

Zn 206.191	27,367.7	0.4738	0.00654	mg/L	0.4738	1.38 %

2013/06/27 13:25:55 QC value within limits for Zn 206.191 Recovery = 94.77%

Mean Data

ID: BLK **Seq. No.:** 110 **A/S Pos:** 1

2013/06/27 13:27:52 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:26:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,348.1	99.14	1.716	%				1.73 %
Y 324.227A	1,384,901.2	99.54	1.190	%				1.20 %
Ag 328.068	198.7	0.0010	0.00044	mg/L	0.0010			45.13 %

2013/06/27 13:27:51 QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215	20.5	0.016	0.0172	mg/L	0.016	111.00 %

2013/06/27 13:27:51 QC value within limits for Al 308.215 Recovery = Not calculated

As 188.979	8.6	0.0039	0.00068	mg/L	0.0039	17.60 %

2013/06/27 13:27:51 QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527	-33.3	-0.0003	0.00017	mg/L	-0.0003	61.60 %

2013/06/27 13:27:51 QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107	421.2	0.0001	0.00002	mg/L	0.0001	22.27 %

2013/06/27 13:27:51 QC value within limits for Be 313.107 Recovery = Not calculated

B 208.959	103.1	0.0098	0.00150	mg/L	0.0098	15.24 %

2013/06/27 13:27:51 QC value within limits for B 208.959 Recovery = Not calculated

Ca 317.933	83.6	0.0029	0.00093	mg/L	0.0029	32.73 %

2013/06/27 13:27:51 QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 228.802	23.3	0.0005	0.00015	mg/L	0.0005	27.90 %
2013/06/27 13:27:51	QC value within limits for Cd 228.802 Recovery = Not calculated					
Co 228.616	-36.8	-0.0007	0.00016	mg/L	-0.0007	21.26 %
2013/06/27 13:27:51	QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716	73.6	0.0006	0.00055	mg/L	0.0006	94.44 %
2013/06/27 13:27:51	QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.754	-33.5	-0.0001	0.00070	mg/L	-0.0001	540.93 %
2013/06/27 13:27:51	QC value within limits for Cu 324.754 Recovery = Not calculated					
Fe 273.955	123.0	0.0049	0.00124	mg/L	0.0049	25.44 %
2013/06/27 13:27:51	QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.491R	320.3	0.137	0.0592	mg/L	0.137	43.24 %
2013/06/27 13:27:51	QC value within limits for K 766.491R Recovery = Not calculated					
Li 670.781R	-106.0	-0.002	0.0010	mg/L	-0.002	66.10 %
2013/06/27 13:27:51	QC value within limits for Li 670.781R Recovery = Not calculated					
Mg 279.079R	3.7	0.002	0.0086	mg/L	0.002	566.81 %
2013/06/27 13:27:51	QC value within limits for Mg 279.079R Recovery = Not calculated					
Mn 257.610	17.4	0.0000	0.00002	mg/L	0.0000	65.32 %
2013/06/27 13:27:51	QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.030	40.0	0.0021	0.00045	mg/L	0.0021	20.83 %
2013/06/27 13:27:51	QC value within limits for Mo 202.030 Recovery = Not calculated					
Na 589.592R	320.2	0.032	0.0027	mg/L	0.032	8.52 %
2013/06/27 13:27:51	QC value within limits for Na 589.592R Recovery = Not calculated					
Ni 231.604	47.1	0.001	0.0003	mg/L	0.001	34.22 %
2013/06/27 13:27:51	QC value within limits for Ni 231.604 Recovery = Not calculated					
Pb 220.353	40.6	0.0037	0.00144	mg/L	0.0037	38.77 %
2013/06/27 13:27:51	QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.833	-25.8	-0.0093	0.00395	mg/L	-0.0093	42.71 %
2013/06/27 13:27:51	QC value within limits for Sb 206.833 Recovery = Not calculated					
Se 196.026	-5.0	-0.0017	0.00137	mg/L	-0.0017	81.57 %
2013/06/27 13:27:51	QC value within limits for Se 196.026 Recovery = Not calculated					
Sn 189.933	-5.8	-0.0005	0.00069	mg/L	-0.0005	128.91 %
2013/06/27 13:27:51	QC value within limits for Sn 189.933 Recovery = Not calculated					
Sr 421.539R	61.9	0.0001	0.00008	mg/L	0.0001	103.14 %
2013/06/27 13:27:51	QC value within limits for Sr 421.539R Recovery = Not calculated					
Ti 337.280	178.0	0.0003	0.00024	mg/L	0.0003	84.06 %
2013/06/27 13:27:51	QC value within limits for Ti 337.280 Recovery = Not calculated					
Tl 190.800	15.2	0.0043	0.00084	mg/L	0.0043	19.77 %
2013/06/27 13:27:51	QC value within limits for Tl 190.800 Recovery = Not calculated					
V 292.402	76.7	0.0004	0.00050	mg/L	0.0004	135.27 %
2013/06/27 13:27:51	QC value within limits for V 292.402 Recovery = Not calculated					
Zn 206.191	135.5	0.0023	0.00034	mg/L	0.0023	14.60 %
2013/06/27 13:27:51	QC value within limits for Zn 206.191 Recovery = Not calculated					

Mean Data

ID: b302927-15 **Seq. No.:** 111 **A/S Pos:** 321

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:28:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	225,201.4	97.35	0.551	%			%	0.57 %
Y 324.227A	1,342,907.0	96.52	0.464	%			%	0.48 %
Ag 328.068	-2,184.5	0.0002	0.00044	mg/L	0.0002	0.00044	mg/L	232.24 %
Al 308.215	51,260.4	39.0	0.02	mg/L	39.0	0.02	mg/L	0.05 %
As 188.979	-90.9	0.0303	0.00356	mg/L	0.0303	0.00356	mg/L	11.77 %
Ba 233.527	110,079.3	0.8965	0.00777	mg/L	0.8965	0.00777	mg/L	0.87 %
Be 313.107	5,798.1	0.0009	0.00003	mg/L	0.0009	0.00003	mg/L	3.63 %
B 208.959	456.4	0.0391	0.00090	mg/L	0.0391	0.00090	mg/L	2.30 %
Ca 317.933	5,314,634.6	181.3	2.38	mg/L	181.3	2.38	mg/L	1.31 %
Cd 228.802	326.0	0.0074	0.00017	mg/L	0.0074	0.00017	mg/L	2.23 %
Co 228.616	957.5	0.0122	0.00052	mg/L	0.0122	0.00052	mg/L	4.27 %
Cr 267.716	11,041.8	0.0872	0.00119	mg/L	0.0872	0.00119	mg/L	1.37 %
Cu 324.754	57,439.7	0.2153	0.00186	mg/L	0.2153	0.00186	mg/L	0.87 %

Fe 273.955	4,833,316.8	192.0	0.33	mg/L	192.0	0.33	mg/L	0.17 %
K 766.491R	1,958.9	0.838	0.0381	mg/L	0.838	0.0381	mg/L	4.54 %
Li 670.781R	1,491.5	0.021	0.0019	mg/L	0.021	0.0019	mg/L	9.05 %
Mg 279.079R	13,510.0	5.57	0.018	mg/L	5.57	0.018	mg/L	0.33 %
Mn 257.610	990,667.1	1.352	0.0022	mg/L	1.352	0.0022	mg/L	0.16 %
Mo 202.030	162.8	0.0104	0.00034	mg/L	0.0104	0.00034	mg/L	3.30 %
Na 589.592R	6,350.6	0.627	0.0161	mg/L	0.627	0.0161	mg/L	2.57 %
Ni 231.604	2,102.9	0.038	0.0009	mg/L	0.038	0.0009	mg/L	2.32 %
Pb 220.353	14,314.1	1.327	0.0094	mg/L	1.327	0.0094	mg/L	0.71 %
Sb 206.833	173.5	0.0031	0.00512	mg/L	0.0031	0.00512	mg/L	166.74 %
Se 196.026	-160.4	-0.0011	0.00217	mg/L	-0.0011	0.00217	mg/L	193.79 %
Sn 189.933	669.3	0.0553	0.00064	mg/L	0.0553	0.00064	mg/L	1.15 %
Sr 421.539R	888,657.9	1.163	0.0148	mg/L	1.163	0.0148	mg/L	1.27 %
Ti 337.280	247,949.0	0.3997	0.00625	mg/L	0.3997	0.00625	mg/L	1.56 %
Tl 190.800	-149.1	-0.0032	0.00150	mg/L	-0.0032	0.00150	mg/L	46.29 %
V 292.402	12,977.3	0.0536	0.00040	mg/L	0.0536	0.00040	mg/L	0.75 %
Zn 206.191	101,804.2	1.753	0.0145	mg/L	1.753	0.0145	mg/L	0.83 %

Mean Data

ID: b302927-16 **Seq. No.:** 112 **A/S Pos:** 322

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:30:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,800.3	99.34	0.333	%			%	0.33 %
Y 324.227A	1,391,121.2	99.98	0.458	%			%	0.46 %
Ag 328.068	-109.8	0.0002	0.00057	mg/L	0.0002	0.00057	mg/L	333.22 %
Al 308.215	92,834.6	70.6	0.93	mg/L	70.6	0.93	mg/L	1.32 %
As 188.979	-6.7	0.0108	0.00332	mg/L	0.0108	0.00332	mg/L	30.82 %
Ba 233.527	45,434.9	0.3741	0.00039	mg/L	0.3741	0.00039	mg/L	0.10 %
Be 313.107	4,383.6	0.0009	0.00001	mg/L	0.0009	0.00001	mg/L	1.65 %
B 208.959	195.1	0.0106	0.00068	mg/L	0.0106	0.00068	mg/L	6.42 %
Ca 317.933	381,218.7	13.00	0.033	mg/L	13.00	0.033	mg/L	0.25 %
Cd 228.802	24.0	0.0006	0.00013	mg/L	0.0006	0.00013	mg/L	22.66 %
Co 228.616	71.7	0.0007	0.00025	mg/L	0.0007	0.00025	mg/L	37.16 %
Cr 267.716	6,743.2	0.0535	0.00041	mg/L	0.0535	0.00041	mg/L	0.76 %
Cu 324.754	2,133.2	0.0081	0.00073	mg/L	0.0081	0.00073	mg/L	9.02 %
Fe 273.955	260,231.3	10.34	0.012	mg/L	10.34	0.012	mg/L	0.11 %
K 766.491R	877.7	0.375	0.0337	mg/L	0.375	0.0337	mg/L	8.99 %
Li 670.781R	1,165.4	0.017	0.0024	mg/L	0.017	0.0024	mg/L	14.28 %
Mg 279.079R	3,107.8	1.28	0.014	mg/L	1.28	0.014	mg/L	1.07 %
Mn 257.610	100,793.7	0.1376	0.00024	mg/L	0.1376	0.00024	mg/L	0.18 %
Mo 202.030	36.0	0.0046	0.00045	mg/L	0.0046	0.00045	mg/L	9.79 %
Na 589.592R	3,361.2	0.332	0.0054	mg/L	0.332	0.0054	mg/L	1.63 %
Ni 231.604	853.7	0.015	0.0004	mg/L	0.015	0.0004	mg/L	2.51 %
Pb 220.353	279.2	0.0524	0.00056	mg/L	0.0524	0.00056	mg/L	1.06 %
Sb 206.833	68.7	-0.0023	0.00402	mg/L	-0.0023	0.00402	mg/L	172.68 %
Se 196.026	25.6	-0.0008	0.00089	mg/L	-0.0008	0.00089	mg/L	110.41 %
Sn 189.933	144.4	0.0129	0.00059	mg/L	0.0129	0.00059	mg/L	4.58 %
Sr 421.539R	626,012.3	0.8192	0.00156	mg/L	0.8192	0.00156	mg/L	0.19 %
Ti 337.280	184,759.8	0.2978	0.00160	mg/L	0.2978	0.00160	mg/L	0.54 %
Tl 190.800	-44.7	0.0041	0.00121	mg/L	0.0041	0.00121	mg/L	29.57 %
V 292.402	5,404.9	0.0241	0.00030	mg/L	0.0241	0.00030	mg/L	1.25 %
Zn 206.191	2,176.7	0.0395	0.00052	mg/L	0.0395	0.00052	mg/L	1.32 %

Mean Data

ID: b302927-17 **Seq. No.:** 113 **A/S Pos:** 323

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:32:37

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	227,745.2	98.45	0.617	%			%	0.63 %
Y 324.227A	1,356,837.4	97.52	0.768	%			%	0.79 %

Ag 328.068	172.6	0.0014	0.00078	mg/L	0.0014	0.00078	mg/L	56.15 %
Al 308.215	39,457.7	30.0	0.34	mg/L	30.0	0.34	mg/L	1.12 %
As 188.979	15.9	0.0209	0.00155	mg/L	0.0209	0.00155	mg/L	7.43 %
Ba 233.527	2,268,521.8	18.71	0.023	mg/L	18.71	0.023	mg/L	0.13 %
Be 313.107	3,020.1	0.0006	0.00003	mg/L	0.0006	0.00003	mg/L	4.46 %
B 208.959	242.4	0.0196	0.00049	mg/L	0.0196	0.00049	mg/L	2.48 %
Ca 317.933	2,882,280.6	98.32	0.208	mg/L	98.32	0.208	mg/L	0.21 %
Cd 228.802	149.8	0.0039	0.00010	mg/L	0.0039	0.00010	mg/L	2.48 %
Co 228.616	155.5	0.0152	0.00024	mg/L	0.0152	0.00024	mg/L	1.61 %
Cr 267.716	6,046.8	0.0479	0.00041	mg/L	0.0479	0.00041	mg/L	0.86 %
Cu 324.754	31,352.8	0.1197	0.00026	mg/L	0.1197	0.00026	mg/L	0.22 %
Fe 273.955	555,075.4	22.05	0.041	mg/L	22.05	0.041	mg/L	0.19 %
K 766.491R	1,329.5	0.568	0.0015	mg/L	0.568	0.0015	mg/L	0.27 %
Li 670.781R	965.9	0.014	0.0019	mg/L	0.014	0.0019	mg/L	13.46 %
Mg 279.079R	6,457.5	2.66	0.036	mg/L	2.66	0.036	mg/L	1.36 %
Mn 257.610	330,573.0	0.4513	0.00048	mg/L	0.4513	0.00048	mg/L	0.11 %
Mo 202.030	113.2	0.0059	0.00057	mg/L	0.0059	0.00057	mg/L	9.50 %
Na 589.592R	3,995.3	0.395	0.0145	mg/L	0.395	0.0145	mg/L	3.67 %
Ni 231.604	1,655.4	0.030	0.0003	mg/L	0.030	0.0003	mg/L	0.90 %
Pb 220.353	25,875.3	2.379	0.0208	mg/L	2.379	0.0208	mg/L	0.88 %
Sb 206.833	68.4	0.0072	0.00416	mg/L	0.0072	0.00416	mg/L	57.84 %
Se 196.026	7.0	0.0013	0.00318	mg/L	0.0013	0.00318	mg/L	248.09 %
Sn 189.933	646.2	0.0563	0.00086	mg/L	0.0563	0.00086	mg/L	1.53 %
Sr 421.539R	737,260.6	0.9648	0.00205	mg/L	0.9648	0.00205	mg/L	0.21 %
Ti 337.280	132,869.9	0.2142	0.00118	mg/L	0.2142	0.00118	mg/L	0.55 %
Tl 190.800	-41.6	0.0008	0.00188	mg/L	0.0008	0.00188	mg/L	244.76 %
V 292.402	7,735.4	0.0344	0.00070	mg/L	0.0344	0.00070	mg/L	2.04 %
Zn 206.191	88,606.9	1.528	0.0034	mg/L	1.528	0.0034	mg/L	0.22 %

Mean Data

ID: b302927-18 **Seq. No.:** 114 **A/S Pos:** 324

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:34:32

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	228,088.0	98.60	1.541	%			%	1.56 %
Y 324.227A	1,376,810.4	98.95	0.492	%			%	0.50 %
Ag 328.068	21.5	0.0010	0.00007	mg/L	0.0010	0.00007	mg/L	7.53 %
Al 308.215	54,691.6	41.6	0.78	mg/L	41.6	0.78	mg/L	1.88 %
As 188.979	-1.3	0.0110	0.00251	mg/L	0.0110	0.00251	mg/L	22.73 %
Ba 233.527	57,025.6	0.4694	0.00121	mg/L	0.4694	0.00121	mg/L	0.26 %
Be 313.107	3,060.0	0.0006	0.00001	mg/L	0.0006	0.00001	mg/L	1.75 %
B 208.959	191.2	0.0134	0.00172	mg/L	0.0134	0.00172	mg/L	12.86 %
Ca 317.933	792,721.6	27.04	0.022	mg/L	27.04	0.022	mg/L	0.08 %
Cd 228.802	134.2	0.0031	0.00010	mg/L	0.0031	0.00010	mg/L	3.26 %
Co 228.616	143.1	0.0020	0.00002	mg/L	0.0020	0.00002	mg/L	1.15 %
Cr 267.716	6,600.2	0.0523	0.00036	mg/L	0.0523	0.00036	mg/L	0.69 %
Cu 324.754	19,774.7	0.0755	0.00100	mg/L	0.0755	0.00100	mg/L	1.33 %
Fe 273.955	377,943.3	15.01	0.033	mg/L	15.01	0.033	mg/L	0.22 %
K 766.491R	1,896.5	0.811	0.0213	mg/L	0.811	0.0213	mg/L	2.63 %
Li 670.781R	952.6	0.014	0.0008	mg/L	0.014	0.0008	mg/L	6.16 %
Mg 279.079R	4,692.5	1.94	0.030	mg/L	1.94	0.030	mg/L	1.55 %
Mn 257.610	222,100.7	0.3032	0.00075	mg/L	0.3032	0.00075	mg/L	0.25 %
Mo 202.030	83.7	0.0059	0.00052	mg/L	0.0059	0.00052	mg/L	8.81 %
Na 589.592R	3,752.0	0.371	0.0048	mg/L	0.371	0.0048	mg/L	1.29 %
Ni 231.604	922.6	0.017	0.0001	mg/L	0.017	0.0001	mg/L	0.57 %
Pb 220.353	3,564.6	0.3422	0.00167	mg/L	0.3422	0.00167	mg/L	0.49 %
Sb 206.833	40.7	-0.0038	0.00608	mg/L	-0.0038	0.00608	mg/L	158.12 %
Se 196.026	9.9	0.0000	0.00730	mg/L	0.0000	0.00730	mg/L	5,946.11 %
Sn 189.933	301.6	0.0270	0.00076	mg/L	0.0270	0.00076	mg/L	2.81 %
Sr 421.539R	408,503.6	0.5346	0.00113	mg/L	0.5346	0.00113	mg/L	0.21 %
Ti 337.280	181,144.6	0.2920	0.00484	mg/L	0.2920	0.00484	mg/L	1.66 %

Tl 190.800	-31.9	0.0029	0.00252	mg/L	0.0029	0.00252	mg/L	87.28	%
V 292.402	6,869.1	0.0306	0.00013	mg/L	0.0306	0.00013	mg/L	0.42	%
Zn 206.191	52,768.0	0.9106	0.00282	mg/L	0.9106	0.00282	mg/L	0.31	%

Mean Data

ID: b302928-01 **Seq. No.:** 115 **A/S Pos:** 325

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:36:27

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	233,090.5	100.8	0.56	%			%	0.56	%
Y 324.227A	1,397,396.8	100.4	0.83	%			%	0.83	%
Ag 328.068	-73.4	0.0003	0.00044	mg/L	0.0003	0.00044	mg/L	161.63	%
Al 308.215	93,548.6	71.2	0.63	mg/L	71.2	0.63	mg/L	0.88	%
As 188.979	-1.5	0.0157	0.00239	mg/L	0.0157	0.00239	mg/L	15.20	%
Ba 233.527	50,250.2	0.4136	0.00060	mg/L	0.4136	0.00060	mg/L	0.15	%
Be 313.107	7,444.2	0.0015	0.00002	mg/L	0.0015	0.00002	mg/L	1.49	%
B 208.959	188.5	0.0097	0.00012	mg/L	0.0097	0.00012	mg/L	1.25	%
Ca 317.933	1,912,349.1	65.23	0.051	mg/L	65.23	0.051	mg/L	0.08	%
Cd 228.802	25.3	0.0005	0.00017	mg/L	0.0005	0.00017	mg/L	33.86	%
Co 228.616	210.6	0.0031	0.00026	mg/L	0.0031	0.00026	mg/L	8.31	%
Cr 267.716	10,240.7	0.0814	0.00046	mg/L	0.0814	0.00046	mg/L	0.57	%
Cu 324.754	2,004.4	0.0076	0.00061	mg/L	0.0076	0.00061	mg/L	7.99	%
Fe 273.955	351,601.4	13.96	0.013	mg/L	13.96	0.013	mg/L	0.09	%
K 766.491R	1,041.1	0.445	0.0679	mg/L	0.445	0.0679	mg/L	15.25	%
Li 670.781R	1,290.9	0.018	0.0018	mg/L	0.018	0.0018	mg/L	9.56	%
Mg 279.079R	3,417.2	1.41	0.016	mg/L	1.41	0.016	mg/L	1.13	%
Mn 257.610	84,753.9	0.1157	0.00021	mg/L	0.1157	0.00021	mg/L	0.18	%
Mo 202.030	92.0	0.0067	0.00031	mg/L	0.0067	0.00031	mg/L	4.55	%
Na 589.592R	1,947.2	0.192	0.0061	mg/L	0.192	0.0061	mg/L	3.17	%
Ni 231.604	1,149.6	0.021	0.0004	mg/L	0.021	0.0004	mg/L	1.85	%
Pb 220.353	399.0	0.0645	0.00158	mg/L	0.0645	0.00158	mg/L	2.45	%
Sb 206.833	58.7	-0.0085	0.00237	mg/L	-0.0085	0.00237	mg/L	27.98	%
Se 196.026	22.9	-0.0020	0.00145	mg/L	-0.0020	0.00145	mg/L	73.45	%
Sn 189.933	192.6	0.0154	0.00037	mg/L	0.0154	0.00037	mg/L	2.39	%
Sr 421.539R	651,304.5	0.8523	0.00037	mg/L	0.8523	0.00037	mg/L	0.04	%
Ti 337.280	250,783.8	0.4043	0.00340	mg/L	0.4043	0.00340	mg/L	0.84	%
Tl 190.800	-52.7	0.0036	0.00365	mg/L	0.0036	0.00365	mg/L	102.72	%
V 292.402	12,461.7	0.0559	0.00083	mg/L	0.0559	0.00083	mg/L	1.49	%
Zn 206.191	2,666.9	0.0481	0.00032	mg/L	0.0481	0.00032	mg/L	0.66	%

Mean Data

ID: Ba_5 **Seq. No.:** 116 **A/S Pos:** 326

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:38:22

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	230,989.2	99.85	0.539	%			%	0.54	%
Y 324.227A	1,397,516.5	100.4	0.52	%			%	0.51	%
Ag 328.068	177.4	0.0009	0.00040	mg/L	0.0009	0.00040	mg/L	46.46	%
Al 308.215	67.2	0.051	0.0148	mg/L	0.051	0.0148	mg/L	28.96	%
As 188.979	5.2	0.0024	0.00112	mg/L	0.0024	0.00112	mg/L	47.14	%
Ba 233.527	577,229.8	4.760	0.0028	mg/L	4.760	0.0028	mg/L	0.06	%
Be 313.107	518.0	0.0001	0.00001	mg/L	0.0001	0.00001	mg/L	12.33	%
B 208.959	18.8	0.0017	0.00037	mg/L	0.0017	0.00037	mg/L	21.48	%
Ca 317.933	316.4	0.0108	0.00373	mg/L	0.0108	0.00373	mg/L	34.60	%
Cd 228.802	7.8	0.0003	0.00020	mg/L	0.0003	0.00020	mg/L	63.48	%
Co 228.616	-56.1	0.0023	0.00008	mg/L	0.0023	0.00008	mg/L	3.44	%
Cr 267.716	-2.4	0.0000	0.00010	mg/L	0.0000	0.00010	mg/L	516.39	%
Cu 324.754	-132.8	-0.0005	0.00024	mg/L	-0.0005	0.00024	mg/L	46.93	%
Fe 273.955	195.0	0.0077	0.00079	mg/L	0.0077	0.00079	mg/L	10.23	%
K 766.491R	227.8	0.097	0.0406	mg/L	0.097	0.0406	mg/L	41.68	%
Li 670.781R	-229.7	-0.003	0.0015	mg/L	-0.003	0.0015	mg/L	45.25	%

Mg 279.079R	80.5	0.033	0.0093	mg/L	0.033	0.0093	mg/L	28.09	%
Mn 257.610	-2.2	0.0000	0.00005	mg/L	0.0000	0.00005	mg/L	1,756.22	%
Mo 202.030	30.7	0.0016	0.00018	mg/L	0.0016	0.00018	mg/L	10.77	%
Na 589.592R	252.9	0.025	0.0131	mg/L	0.025	0.0131	mg/L	52.28	%
Ni 231.604	40.0	0.001	0.0002	mg/L	0.001	0.0002	mg/L	34.54	%
Pb 220.353	53.6	0.0049	0.00181	mg/L	0.0049	0.00181	mg/L	36.76	%
Sb 206.833	-18.1	-0.0065	0.00345	mg/L	-0.0065	0.00345	mg/L	53.15	%
Se 196.026	-5.3	-0.0018	0.00415	mg/L	-0.0018	0.00415	mg/L	235.50	%
Sn 189.933	2.4	0.0002	0.00055	mg/L	0.0002	0.00055	mg/L	241.85	%
Sr 421.539R	126.5	0.0002	0.00000	mg/L	0.0002	0.00000	mg/L	2.70	%
Ti 337.280	202.7	0.0003	0.00010	mg/L	0.0003	0.00010	mg/L	31.95	%
Tl 190.800	16.5	0.0046	0.00164	mg/L	0.0046	0.00164	mg/L	35.28	%
V 292.402	90.9	0.0004	0.00067	mg/L	0.0004	0.00067	mg/L	159.00	%
Zn 206.191	111.1	0.0019	0.00022	mg/L	0.0019	0.00022	mg/L	11.62	%

Mean Data

ID: Cu_5 **Seq. No.:** 117 **A/S Pos:** 327

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:40:17

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	231,472.0	100.1	0.95	%			%	0.95	%
Y 324.227A	1,384,449.9	99.50	0.160	%			%	0.16	%
Ag 328.068	114.3	0.0006	0.00069	mg/L	0.0006	0.00069	mg/L	121.93	%
Al 308.215	26.7	0.020	0.0259	mg/L	0.020	0.0259	mg/L	127.84	%
As 188.979	11.5	0.0052	0.00380	mg/L	0.0052	0.00380	mg/L	72.79	%
Ba 233.527	-5.7	0.0000	0.00015	mg/L	0.0000	0.00015	mg/L	314.24	%
Be 313.107	123.2	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	97.60	%
B 208.959	18.1	0.0017	0.00042	mg/L	0.0017	0.00042	mg/L	25.31	%
Ca 317.933	59.4	0.0020	0.00261	mg/L	0.0020	0.00261	mg/L	128.71	%
Cd 228.802	13.7	0.0003	0.00029	mg/L	0.0003	0.00029	mg/L	91.25	%
Co 228.616	-22.3	-0.0004	0.00026	mg/L	-0.0004	0.00026	mg/L	57.65	%
Cr 267.716	-20.7	-0.0002	0.00072	mg/L	-0.0002	0.00072	mg/L	438.95	%
Cu 324.754	1,205,322.0	4.613	0.0085	mg/L	4.613	0.0085	mg/L	0.18	%
Fe 273.955	92.7	0.0037	0.00036	mg/L	0.0037	0.00036	mg/L	9.84	%
K 766.491R	273.6	0.117	0.0861	mg/L	0.117	0.0861	mg/L	73.59	%
Li 670.781R	-157.7	-0.002	0.0020	mg/L	-0.002	0.0020	mg/L	86.63	%
Mg 279.079R	34.7	0.014	0.0010	mg/L	0.014	0.0010	mg/L	6.83	%
Mn 257.610	-5.8	0.0000	0.00001	mg/L	0.0000	0.00001	mg/L	75.93	%
Mo 202.030	27.9	0.0015	0.00070	mg/L	0.0015	0.00070	mg/L	46.49	%
Na 589.592R	122.6	0.012	0.0117	mg/L	0.012	0.0117	mg/L	96.39	%
Ni 231.604	42.5	0.001	0.0003	mg/L	0.001	0.0003	mg/L	41.60	%
Pb 220.353	64.9	0.0059	0.00150	mg/L	0.0059	0.00150	mg/L	25.24	%
Sb 206.833	-12.4	-0.0044	0.00614	mg/L	-0.0044	0.00614	mg/L	138.60	%
Se 196.026	-0.2	-0.0001	0.00206	mg/L	-0.0001	0.00206	mg/L	3,365.22	%
Sn 189.933	-2.1	-0.0002	0.00035	mg/L	-0.0002	0.00035	mg/L	175.19	%
Sr 421.539R	113.6	0.0001	0.00005	mg/L	0.0001	0.00005	mg/L	33.71	%
Ti 337.280	100.0	0.0002	0.00012	mg/L	0.0002	0.00012	mg/L	77.11	%
Tl 190.800	11.9	0.0033	0.00492	mg/L	0.0033	0.00492	mg/L	147.21	%
V 292.402	182.1	0.0008	0.00034	mg/L	0.0008	0.00034	mg/L	41.27	%
Zn 206.191	78.4	0.0014	0.00015	mg/L	0.0014	0.00015	mg/L	10.96	%

Mean Data

ID: Mn_20 **Seq. No.:** 118 **A/S Pos:** 328

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:42:18

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD	
Y 371.029R	229,192.5	99.07	1.135	%			%	1.15	%
Y 324.227A	1,392,680.6	100.1	0.72	%			%	0.72	%
Ag 328.068	842.2	0.0005	0.00018	mg/L	0.0005	0.00018	mg/L	33.07	%
Al 308.215	44.9	0.034	0.0453	mg/L	0.034	0.0453	mg/L	132.41	%
As 188.979	3.3	0.0015	0.00179	mg/L	0.0015	0.00179	mg/L	116.20	%

Ba 233.527	-66.7	-0.0006	0.00009	mg/L	-0.0006	0.00009	mg/L	15.88 %
Be 313.107	284.3	0.0001	0.00000	mg/L	0.0001	0.00000	mg/L	1.62 %
B 208.959	50.8	0.0051	0.00103	mg/L	0.0051	0.00103	mg/L	20.25 %
Ca 317.933	128.7	0.0044	0.00339	mg/L	0.0044	0.00339	mg/L	77.16 %
Cd 228.802	34.0	0.0008	0.00011	mg/L	0.0008	0.00011	mg/L	13.75 %
Co 228.616	-29.7	-0.0006	0.00030	mg/L	-0.0006	0.00030	mg/L	49.41 %
Cr 267.716	1,189.2	0.0019	0.00062	mg/L	0.0019	0.00062	mg/L	32.27 %
Cu 324.754	-134.1	-0.0005	0.00079	mg/L	-0.0005	0.00079	mg/L	154.31 %
Fe 273.955	115.5	0.0046	0.00024	mg/L	0.0046	0.00024	mg/L	5.35 %
K 766.491R	188.5	0.081	0.0299	mg/L	0.081	0.0299	mg/L	37.14 %
Li 670.781R	-182.3	-0.003	0.0007	mg/L	-0.003	0.0007	mg/L	28.43 %
Mg 279.079R	-105.3	-0.043	0.0129	mg/L	-0.043	0.0129	mg/L	29.80 %
Mn 257.610	13,502,485.6	18.43	0.225	mg/L	18.43	0.225	mg/L	1.22 %
Mo 202.030	-54.1	0.0006	0.00036	mg/L	0.0006	0.00036	mg/L	65.19 %
Na 589.592R	100.1	0.010	0.0182	mg/L	0.010	0.0182	mg/L	184.25 %
Ni 231.604	65.6	0.001	0.0002	mg/L	0.001	0.0002	mg/L	18.30 %
Pb 220.353	60.1	0.0055	0.00065	mg/L	0.0055	0.00065	mg/L	11.72 %
Sb 206.833	-9.0	-0.0035	0.00226	mg/L	-0.0035	0.00226	mg/L	64.96 %
Se 196.026	46.1	-0.0102	0.00431	mg/L	-0.0102	0.00431	mg/L	42.18 %
Sn 189.933	3.6	0.0003	0.00144	mg/L	0.0003	0.00144	mg/L	426.45 %
Sr 421.539R	125.6	0.0002	0.00014	mg/L	0.0002	0.00014	mg/L	84.54 %
Ti 337.280	172.6	0.0003	0.00017	mg/L	0.0003	0.00017	mg/L	61.72 %
Tl 190.800	-315.1	-0.0449	0.00254	mg/L	-0.0449	0.00254	mg/L	5.65 %
V 292.402	-422.2	-0.0019	0.00042	mg/L	-0.0019	0.00042	mg/L	22.13 %
Zn 206.191	79.2	0.0014	0.00031	mg/L	0.0014	0.00031	mg/L	21.98 %

Mean Data

ID: Pb_10 **Seq. No.:** 119 **A/S Pos:** 329

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:44:20

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	231,222.4	99.95	0.561	%			%	0.56 %
Y 324.227A	1,386,240.4	99.63	0.352	%			%	0.35 %
Ag 328.068	70.8	0.0003	0.00092	mg/L	0.0003	0.00092	mg/L	267.75 %
Al 308.215	22.9	0.017	0.0102	mg/L	0.017	0.0102	mg/L	58.73 %
As 188.979	3.0	0.0014	0.00216	mg/L	0.0014	0.00216	mg/L	158.94 %
Ba 233.527	-22.3	-0.0002	0.00010	mg/L	-0.0002	0.00010	mg/L	54.79 %
Be 313.107	367.1	0.0001	0.00005	mg/L	0.0001	0.00005	mg/L	67.08 %
B 208.959	13.5	0.0012	0.00010	mg/L	0.0012	0.00010	mg/L	8.24 %
Ca 317.933	9.0	0.0003	0.00090	mg/L	0.0003	0.00090	mg/L	294.38 %
Cd 228.802	23.9	0.0006	0.00018	mg/L	0.0006	0.00018	mg/L	31.49 %
Co 228.616	-37.3	-0.0007	0.00022	mg/L	-0.0007	0.00022	mg/L	29.01 %
Cr 267.716	-5.6	0.0000	0.00077	mg/L	0.0000	0.00077	mg/L	1,721.36 %
Cu 324.754	-58.4	-0.0002	0.00023	mg/L	-0.0002	0.00023	mg/L	101.65 %
Fe 273.955	66.4	0.0026	0.00039	mg/L	0.0026	0.00039	mg/L	14.81 %
K 766.491R	168.9	0.072	0.0407	mg/L	0.072	0.0407	mg/L	56.39 %
Li 670.781R	-187.7	-0.003	0.0017	mg/L	-0.003	0.0017	mg/L	61.92 %
Mg 279.079R	75.2	0.031	0.0085	mg/L	0.031	0.0085	mg/L	27.27 %
Mn 257.610	565.4	0.0008	0.00034	mg/L	0.0008	0.00034	mg/L	43.61 %
Mo 202.030	23.0	0.0012	0.00016	mg/L	0.0012	0.00016	mg/L	13.20 %
Na 589.592R	112.7	0.011	0.0131	mg/L	0.011	0.0131	mg/L	117.62 %
Ni 231.604	30.8	0.001	0.0003	mg/L	0.001	0.0003	mg/L	56.50 %
Pb 220.353	103,948.1	9.506	0.0880	mg/L	9.506	0.0880	mg/L	0.93 %
Sb 206.833	-7.2	-0.0026	0.00236	mg/L	-0.0026	0.00236	mg/L	91.51 %
Se 196.026	-3.6	-0.0012	0.00069	mg/L	-0.0012	0.00069	mg/L	57.70 %
Sn 189.933	1.6	0.0001	0.00083	mg/L	0.0001	0.00083	mg/L	564.83 %
Sr 421.539R	74.2	0.0001	0.00002	mg/L	0.0001	0.00002	mg/L	24.68 %
Ti 337.280	188.3	0.0003	0.00012	mg/L	0.0003	0.00012	mg/L	38.85 %
Tl 190.800	7.6	0.0021	0.00185	mg/L	0.0021	0.00185	mg/L	86.48 %
V 292.402	11.3	0.0001	0.00007	mg/L	0.0001	0.00007	mg/L	114.98 %
Zn 206.191	33.0	0.0006	0.00007	mg/L	0.0006	0.00007	mg/L	12.53 %

Mean Data

ID: CVS **Seq. No.:** 121 **A/S Pos:** 3

2013/06/27 13:49:31 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:48:19

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	227,668.2	98.42	0.928	%				0.94 %
Y 324.227A	1,355,847.6	97.45	0.540	%				0.55 %
Ag 328.068	99,917.9	0.4891	0.00123	mg/L	0.4891			0.25 %
2013/06/27 13:49:30 QC value within limits for Ag 328.068 Recovery = 97.82%								
Al 308.215	6,351.2	4.82	0.046	mg/L	4.82			0.95 %
2013/06/27 13:49:30 QC value within limits for Al 308.215 Recovery = 96.34%								
As 188.979	1,040.9	0.4737	0.00606	mg/L	0.4737			1.28 %
2013/06/27 13:49:30 QC value within limits for As 188.979 Recovery = 94.74%								
Ba 233.527	58,264.5	0.4806	0.00072	mg/L	0.4806			0.15 %
2013/06/27 13:49:30 QC value within limits for Ba 233.527 Recovery = 96.12%								
Be 313.107	217,663.9	0.0480	0.00007	mg/L	0.0480			0.15 %
2013/06/27 13:49:30 QC value within limits for Be 313.107 Recovery = 96.01%								
B 208.959	24,655.9	2.356	0.0131	mg/L	2.356			0.55 %
2013/06/27 13:49:30 QC value within limits for B 208.959 Recovery = 94.23%								
Ca 317.933	139,972.2	4.775	0.0159	mg/L	4.775			0.33 %
2013/06/27 13:49:30 QC value within limits for Ca 317.933 Recovery = 95.49%								
Cd 228.802	2,076.5	0.0489	0.00055	mg/L	0.0489			1.13 %
2013/06/27 13:49:30 QC value within limits for Cd 228.802 Recovery = 97.81%								
Co 228.616	24,113.1	0.4854	0.00330	mg/L	0.4854			0.68 %
2013/06/27 13:49:30 QC value within limits for Co 228.616 Recovery = 97.08%								
Cr 267.716	61,188.8	0.4863	0.00142	mg/L	0.4863			0.29 %
2013/06/27 13:49:30 QC value within limits for Cr 267.716 Recovery = 97.26%								
Cu 324.754	126,586.3	0.4847	0.00043	mg/L	0.4847			0.09 %
2013/06/27 13:49:30 QC value within limits for Cu 324.754 Recovery = 96.94%								
Fe 273.955	60,786.4	2.411	0.0040	mg/L	2.411			0.17 %
2013/06/27 13:49:30 QC value within limits for Fe 273.955 Recovery = 96.46%								
K 766.491R	55,195.7	23.6	0.06	mg/L	23.6			0.25 %
2013/06/27 13:49:30 QC value within limits for K 766.491R Recovery = 94.39%								
Li 670.781R	33,557.4	0.480	0.0015	mg/L	0.480			0.32 %
2013/06/27 13:49:30 QC value within limits for Li 670.781R Recovery = 95.95%								
Mg 279.079R	11,474.1	4.73	0.031	mg/L	4.73			0.66 %
2013/06/27 13:49:30 QC value within limits for Mg 279.079R Recovery = 94.64%								
Mn 257.610	355,016.2	0.4847	0.00057	mg/L	0.4847			0.12 %
2013/06/27 13:49:30 QC value within limits for Mn 257.610 Recovery = 96.94%								
Mo 202.030	9,024.9	0.4845	0.00256	mg/L	0.4845			0.53 %
2013/06/27 13:49:30 QC value within limits for Mo 202.030 Recovery = 96.91%								
Na 589.592R	242,852.3	24.0	0.03	mg/L	24.0			0.13 %
2013/06/27 13:49:30 QC value within limits for Na 589.592R Recovery = 95.97%								
Ni 231.604	26,722.1	0.483	0.0035	mg/L	0.483			0.71 %
2013/06/27 13:49:30 QC value within limits for Ni 231.604 Recovery = 96.54%								
Pb 220.353	5,260.2	0.4836	0.00410	mg/L	0.4836			0.85 %
2013/06/27 13:49:30 QC value within limits for Pb 220.353 Recovery = 96.71%								
Sb 206.833	1,345.9	0.4723	0.00582	mg/L	0.4723			1.23 %
2013/06/27 13:49:30 QC value within limits for Sb 206.833 Recovery = 94.45%								
Se 196.026	1,420.0	0.4711	0.00365	mg/L	0.4711			0.78 %
2013/06/27 13:49:30 QC value within limits for Se 196.026 Recovery = 94.21%								
Sn 189.933	5,148.8	0.4775	0.00306	mg/L	0.4775			0.64 %
2013/06/27 13:49:30 QC value within limits for Sn 189.933 Recovery = 95.51%								
Sr 421.539R	367,742.8	0.4812	0.00016	mg/L	0.4812			0.03 %
2013/06/27 13:49:30 QC value within limits for Sr 421.539R Recovery = 96.25%								
Ti 337.280	151,185.9	0.2437	0.00018	mg/L	0.2437			0.07 %
2013/06/27 13:49:30 QC value within limits for Ti 337.280 Recovery = 97.49%								
Tl 190.800	1,743.3	0.4889	0.00356	mg/L	0.4889			0.73 %
2013/06/27 13:49:30 QC value within limits for Tl 190.800 Recovery = 97.78%								
V 292.402	107,583.8	0.4917	0.00124	mg/L	0.4917			0.25 %

2013/06/27 13:49:30 QC value within limits for V 292.402 Recovery = 98.34%

Zn 206.191	27,666.4	0.4790	0.00374	mg/L	0.4790	0.78 %

2013/06/27 13:49:30 QC value within limits for Zn 206.191 Recovery = 95.80%

Mean Data

ID: BLK **Seq. No.:** 122 **A/S Pos:** 1

2013/06/27 13:51:27 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2013/06/27 13:50:15

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	233,027.8	100.7	0.64	%				0.64 %
Y 324.227A	1,392,336.9	100.1	0.47	%				0.47 %
Ag 328.068	172.6	0.0008	0.00026	mg/L	0.0008			31.38 %
2013/06/27 13:51:26 QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215	45.1	0.034	0.0148	mg/L	0.034			43.23 %
2013/06/27 13:51:26 QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.8	0.0031	0.00049	mg/L	0.0031			15.98 %
2013/06/27 13:51:26 QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527	-33.0	-0.0003	0.00006	mg/L	-0.0003			20.21 %
2013/06/27 13:51:26 QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	270.6	0.0001	0.00002	mg/L	0.0001			38.25 %
2013/06/27 13:51:26 QC value within limits for Be 313.107 Recovery = Not calculated								
B 208.959	88.7	0.0085	0.00188	mg/L	0.0085			22.17 %
2013/06/27 13:51:26 QC value within limits for B 208.959 Recovery = Not calculated								
Ca 317.933	97.9	0.0033	0.00096	mg/L	0.0033			28.72 %
2013/06/27 13:51:26 QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802	21.1	0.0005	0.00018	mg/L	0.0005			36.69 %
2013/06/27 13:51:26 QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	-31.3	-0.0006	0.00021	mg/L	-0.0006			33.30 %
2013/06/27 13:51:26 QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	47.9	0.0004	0.00061	mg/L	0.0004			159.51 %
2013/06/27 13:51:26 QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.754	28.4	0.0001	0.00037	mg/L	0.0001			335.81 %
2013/06/27 13:51:26 QC value within limits for Cu 324.754 Recovery = Not calculated								
Fe 273.955	109.0	0.0043	0.00069	mg/L	0.0043			15.93 %
2013/06/27 13:51:26 QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.491R	285.1	0.122	0.0533	mg/L	0.122			43.69 %
2013/06/27 13:51:26 QC value within limits for K 766.491R Recovery = Not calculated								
Li 670.781R	-135.9	-0.002	0.0019	mg/L	-0.002			97.41 %
2013/06/27 13:51:26 QC value within limits for Li 670.781R Recovery = Not calculated								
Mg 279.079R	33.3	0.014	0.0144	mg/L	0.014			104.75 %
2013/06/27 13:51:26 QC value within limits for Mg 279.079R Recovery = Not calculated								
Mn 257.610	83.8	0.0001	0.00004	mg/L	0.0001			30.84 %
2013/06/27 13:51:26 QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	28.9	0.0016	0.00031	mg/L	0.0016			19.95 %
2013/06/27 13:51:26 QC value within limits for Mo 202.030 Recovery = Not calculated								
Na 589.592R	372.9	0.037	0.0127	mg/L	0.037			34.51 %
2013/06/27 13:51:26 QC value within limits for Na 589.592R Recovery = Not calculated								
Ni 231.604	40.6	0.001	0.0002	mg/L	0.001			27.90 %
2013/06/27 13:51:26 QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	40.1	0.0037	0.00043	mg/L	0.0037			11.69 %
2013/06/27 13:51:26 QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-15.7	-0.0057	0.00200	mg/L	-0.0057			35.30 %
2013/06/27 13:51:26 QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	-8.5	-0.0028	0.00506	mg/L	-0.0028			178.15 %
2013/06/27 13:51:26 QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.933	-7.1	-0.0007	0.00007	mg/L	-0.0007			10.12 %
2013/06/27 13:51:26 QC value within limits for Sn 189.933 Recovery = Not calculated								
Sr 421.539R	26.0	0.0000	0.00006	mg/L	0.0000			165.42 %
2013/06/27 13:51:26 QC value within limits for Sr 421.539R Recovery = Not calculated								
Ti 337.280	1,536.6	0.0025	0.00383	mg/L	0.0025			154.71 %
2013/06/27 13:51:26 QC value within limits for Ti 337.280 Recovery = Not calculated								

Tl 190.800	14.2	0.0040	0.00085	mg/L	0.0040		21.21 %
2013/06/27 13:51:26 QC value within limits for Tl 190.800 Recovery = Not calculated							
V 292.402	59.2	0.0003	0.00021	mg/L	0.0003		73.69 %
2013/06/27 13:51:26 QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.191	189.6	0.0033	0.00038	mg/L	0.0033		11.50 %
2013/06/27 13:51:26 QC value within limits for Zn 206.191 Recovery = Not calculated							

Mean Data

ID: Fe_300 **Seq. No.:** 123 **A/S Pos:** 331

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:52:12

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	229,660.5	99.28	0.749	%			%	0.75 %
Y 324.227A	1,369,161.5	98.40	0.471	%			%	0.48 %
Ag 328.068	-4,001.3	-0.0009	0.00067	mg/L	-0.0009	0.00067	mg/L	77.05 %
Al 308.215	33.7	0.026	0.0292	mg/L	0.026	0.0292	mg/L	113.62 %
As 188.979	-203.9	-0.0018	0.00175	mg/L	-0.0018	0.00175	mg/L	99.42 %
Ba 233.527	2,033.1	0.0001	0.00025	mg/L	0.0001	0.00025	mg/L	254.17 %
Be 313.107	1,773.3	0.0000	0.00004	mg/L	0.0000	0.00004	mg/L	409.82 %
B 208.959	123.6	0.0121	0.00084	mg/L	0.0121	0.00084	mg/L	6.90 %
Ca 317.933	1,462.7	0.0499	0.00197	mg/L	0.0499	0.00197	mg/L	3.95 %
Cd 228.802	-123.8	-0.0029	0.00013	mg/L	-0.0029	0.00013	mg/L	4.38 %
Co 228.616	479.6	-0.0004	0.00029	mg/L	-0.0004	0.00029	mg/L	64.01 %
Cr 267.716	-705.4	-0.0056	0.00011	mg/L	-0.0056	0.00011	mg/L	1.92 %
Cu 324.754	1,867.8	-0.0003	0.00065	mg/L	-0.0003	0.00065	mg/L	191.04 %
Fe 273.955	7,121,215.5	282.8	0.33	mg/L	282.8	0.33	mg/L	0.12 %
K 766.491R	-28.5	-0.012	0.0470	mg/L	-0.012	0.0470	mg/L	384.93 %
Li 670.781R	-127.4	-0.002	0.0008	mg/L	-0.002	0.0008	mg/L	43.17 %
Mg 279.079R	165.7	0.068	0.0288	mg/L	0.068	0.0288	mg/L	42.12 %
Mn 257.610	1,939.9	0.0026	0.00008	mg/L	0.0026	0.00008	mg/L	2.97 %
Mo 202.030	-49.1	0.0018	0.00022	mg/L	0.0018	0.00022	mg/L	11.81 %
Na 589.592R	307.6	0.030	0.0079	mg/L	0.030	0.0079	mg/L	25.95 %
Ni 231.604	-96.0	-0.002	0.0004	mg/L	-0.002	0.0004	mg/L	24.35 %
Pb 220.353	66.4	0.0061	0.00085	mg/L	0.0061	0.00085	mg/L	13.94 %
Sb 206.833	138.2	-0.0104	0.00712	mg/L	-0.0104	0.00712	mg/L	68.53 %
Se 196.026	-297.5	-0.0017	0.00292	mg/L	-0.0017	0.00292	mg/L	174.39 %
Sn 189.933	-154.3	-0.0143	0.00121	mg/L	-0.0143	0.00121	mg/L	8.43 %
Sr 421.539R	291.8	0.0004	0.00005	mg/L	0.0004	0.00005	mg/L	13.38 %
Ti 337.280	497.2	0.0008	0.00008	mg/L	0.0008	0.00008	mg/L	10.14 %
Tl 190.800	-101.6	0.0049	0.00221	mg/L	0.0049	0.00221	mg/L	44.85 %
V 292.402	759.1	-0.0041	0.00019	mg/L	-0.0041	0.00019	mg/L	4.57 %
Zn 206.191	384.3	0.0025	0.00027	mg/L	0.0025	0.00027	mg/L	10.93 %

Mean Data

ID: Zn_10 **Seq. No.:** 124 **A/S Pos:** 332

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:54:14

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	233,562.0	101.0	0.44	%			%	0.44 %
Y 324.227A	1,389,507.7	99.87	1.029	%			%	1.03 %
Ag 328.068	84.2	0.0004	0.00034	mg/L	0.0004	0.00034	mg/L	81.46 %
Al 308.215	27.8	0.021	0.0136	mg/L	0.021	0.0136	mg/L	64.50 %
As 188.979	8.1	0.0037	0.00332	mg/L	0.0037	0.00332	mg/L	90.54 %
Ba 233.527	-34.0	-0.0003	0.00012	mg/L	-0.0003	0.00012	mg/L	43.95 %
Be 313.107	368.2	0.0001	0.00003	mg/L	0.0001	0.00003	mg/L	37.39 %
B 208.959	42.1	0.0040	0.00025	mg/L	0.0040	0.00025	mg/L	6.22 %
Ca 317.933	43.2	0.0015	0.00129	mg/L	0.0015	0.00129	mg/L	87.33 %
Cd 228.802	13.9	0.0003	0.00012	mg/L	0.0003	0.00012	mg/L	37.25 %
Co 228.616	-22.0	-0.0004	0.00014	mg/L	-0.0004	0.00014	mg/L	31.63 %
Cr 267.716	70.7	0.0006	0.00034	mg/L	0.0006	0.00034	mg/L	59.66 %
Cu 324.754	-143.0	-0.0005	0.00019	mg/L	-0.0005	0.00019	mg/L	35.09 %

Fe 273.955	849.4	0.0337	0.00093	mg/L	0.0337	0.00093	mg/L	2.77 %
K 766.491R	250.2	0.107	0.0259	mg/L	0.107	0.0259	mg/L	24.17 %
Li 670.781R	-108.1	-0.002	0.0026	mg/L	-0.002	0.0026	mg/L	166.93 %
Mg 279.079R	27.7	0.011	0.0116	mg/L	0.011	0.0116	mg/L	101.64 %
Mn 257.610	34.6	0.0000	0.00003	mg/L	0.0000	0.00003	mg/L	66.48 %
Mo 202.030	13.6	0.0007	0.00061	mg/L	0.0007	0.00061	mg/L	83.75 %
Na 589.592R	303.3	0.030	0.0065	mg/L	0.030	0.0065	mg/L	21.68 %
Ni 231.604	19.7	0.000	0.0003	mg/L	0.000	0.0003	mg/L	85.23 %
Pb 220.353	44.7	0.0041	0.00050	mg/L	0.0041	0.00050	mg/L	12.27 %
Sb 206.833	0.0	0.0000	0.00318	mg/L	0.0000	0.00318	mg/L	6,086.28 %
Se 196.026	1.4	0.0005	0.00713	mg/L	0.0005	0.00713	mg/L	1,507.51 %
Sn 189.933	-4.2	-0.0004	0.00080	mg/L	-0.0004	0.00080	mg/L	205.57 %
Sr 421.539R	11.5	0.0000	0.00001	mg/L	0.0000	0.00001	mg/L	93.89 %
Ti 337.280	-3.8	0.0000	0.00029	mg/L	0.0000	0.00029	mg/L	4,808.22 %
Tl 190.800	13.5	0.0038	0.00203	mg/L	0.0038	0.00203	mg/L	53.62 %
V 292.402	83.3	0.0004	0.00031	mg/L	0.0004	0.00031	mg/L	80.57 %
Zn 206.191	523,637.9	9.025	0.0395	mg/L	9.025	0.0395	mg/L	0.44 %

Mean Data

ID: BLK **Seq. No.:** 125 **A/S Pos:** 1

2013/06/27 13:57:29 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** **:** **Date:** 2013/06/27 13:56:18

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 371.029R	233,010.9	100.7	0.40	%				0.39 %
Y 324.227A	1,398,715.2	100.5	1.07	%				1.06 %
Ag 328.068	247.7	0.0012	0.00092	mg/L	0.0012			76.49 %
2013/06/27 13:57:28 QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215	22.6	0.017	0.0111	mg/L	0.017			64.54 %
2013/06/27 13:57:28 QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	8.3	0.0038	0.00321	mg/L	0.0038			84.98 %
2013/06/27 13:57:28 QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527	-31.2	-0.0003	0.00014	mg/L	-0.0003			54.75 %
2013/06/27 13:57:28 QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	351.3	0.0001	0.00005	mg/L	0.0001			63.41 %
2013/06/27 13:57:28 QC value within limits for Be 313.107 Recovery = Not calculated								
B 208.959	27.6	0.0026	0.00112	mg/L	0.0026			43.53 %
2013/06/27 13:57:28 QC value within limits for B 208.959 Recovery = Not calculated								
Ca 317.933	68.8	0.0023	0.00127	mg/L	0.0023			54.19 %
2013/06/27 13:57:28 QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802	26.6	0.0006	0.00015	mg/L	0.0006			23.94 %
2013/06/27 13:57:28 QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	-30.4	-0.0006	0.00013	mg/L	-0.0006			21.07 %
2013/06/27 13:57:28 QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	7.5	0.0001	0.00034	mg/L	0.0001			575.98 %
2013/06/27 13:57:28 QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.754	3.5	0.0000	0.00018	mg/L	0.0000			1,384.06 %
2013/06/27 13:57:28 QC value within limits for Cu 324.754 Recovery = Not calculated								
Fe 273.955	156.3	0.0062	0.00058	mg/L	0.0062			9.35 %
2013/06/27 13:57:28 QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.491R	136.9	0.059	0.0254	mg/L	0.059			43.45 %
2013/06/27 13:57:28 QC value within limits for K 766.491R Recovery = Not calculated								
Li 670.781R	-90.2	-0.001	0.0008	mg/L	-0.001			58.94 %
2013/06/27 13:57:28 QC value within limits for Li 670.781R Recovery = Not calculated								
Mg 279.079R	28.8	0.012	0.0064	mg/L	0.012			53.42 %
2013/06/27 13:57:28 QC value within limits for Mg 279.079R Recovery = Not calculated								
Mn 257.610	29.8	0.0000	0.00001	mg/L	0.0000			24.39 %
2013/06/27 13:57:28 QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	27.6	0.0015	0.00021	mg/L	0.0015			14.43 %
2013/06/27 13:57:28 QC value within limits for Mo 202.030 Recovery = Not calculated								
Na 589.592R	141.1	0.014	0.0105	mg/L	0.014			75.41 %
2013/06/27 13:57:28 QC value within limits for Na 589.592R Recovery = Not calculated								

Ni 231.604	6.7	0.000	0.0002	mg/L	0.000	180.98	%
2013/06/27 13:57:28	QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	36.0	0.0033	0.00182	mg/L	0.0033	55.29	%
2013/06/27 13:57:28	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-11.7	-0.0042	0.00325	mg/L	-0.0042	77.37	%
2013/06/27 13:57:28	QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	-13.4	-0.0045	0.00334	mg/L	-0.0045	74.84	%
2013/06/27 13:57:28	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.933	-7.0	-0.0006	0.00114	mg/L	-0.0006	176.45	%
2013/06/27 13:57:28	QC value within limits for Sn 189.933 Recovery = Not calculated						
Sr 421.539R	29.7	0.0000	0.00009	mg/L	0.0000	229.42	%
2013/06/27 13:57:28	QC value within limits for Sr 421.539R Recovery = Not calculated						
Ti 337.280	49.1	0.0001	0.00032	mg/L	0.0001	402.31	%
2013/06/27 13:57:28	QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	15.4	0.0043	0.00176	mg/L	0.0043	40.47	%
2013/06/27 13:57:28	QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	47.6	0.0002	0.00087	mg/L	0.0002	383.63	%
2013/06/27 13:57:28	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.191	341.5	0.0059	0.00083	mg/L	0.0059	14.11	%
2013/06/27 13:57:28	QC value within limits for Zn 206.191 Recovery = Not calculated						

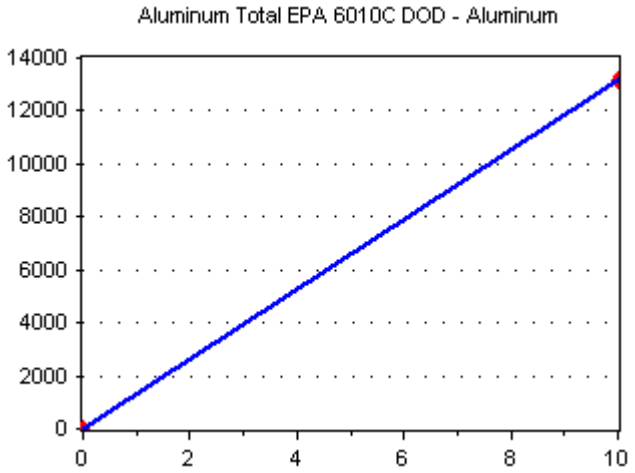
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Aluminum Total EPA 6010C DOD

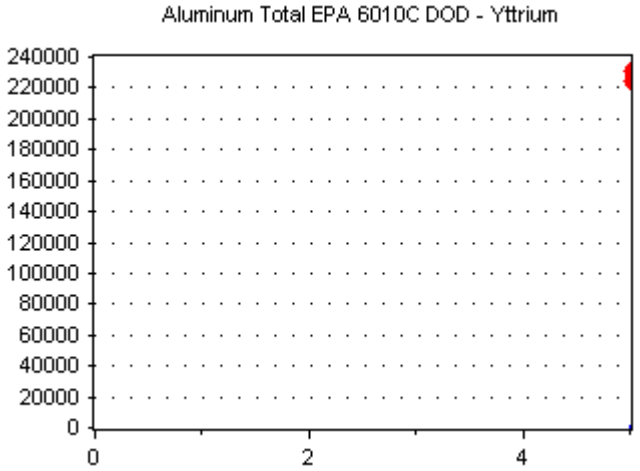
Aluminum



Curve Type: Linear regression
Avg RF/Slope: 1314.193
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	10	13141.93			1314.193

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

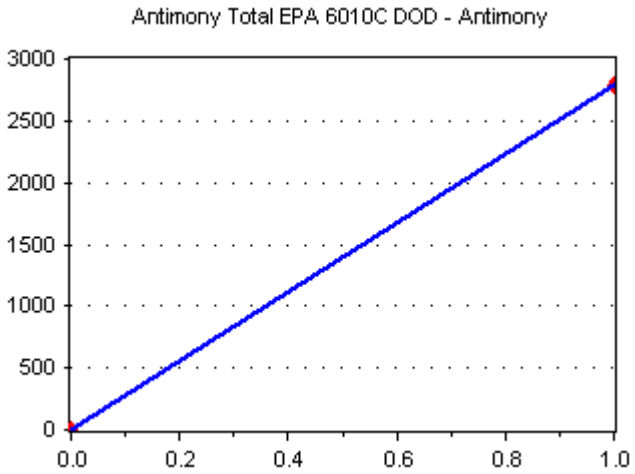
INITIAL CALIBRATION CURVE

Laboratory: ENCO Jacksonville **Calibration ID: 1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Antimony Total EPA 6010C DOD

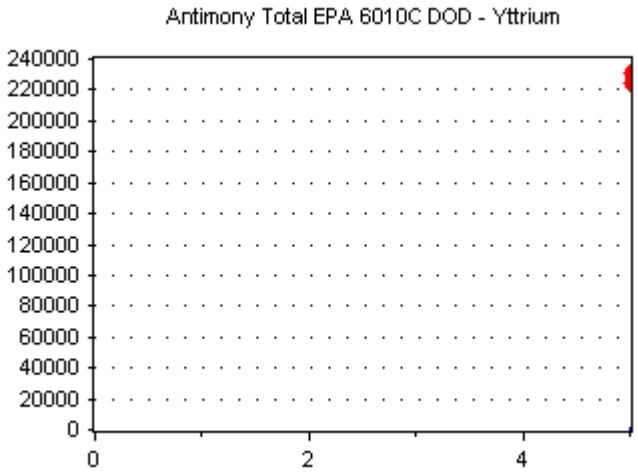
Antimony



Curve Type: Linear regression
Avg RF/Slope: 2796.374
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	2796.374			2796.374

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

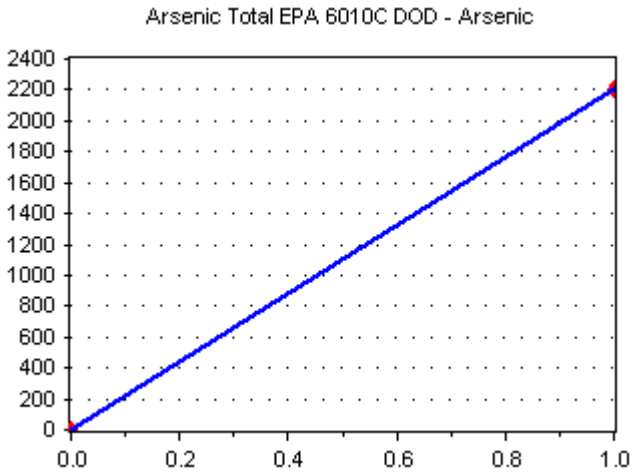
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Arsenic Total EPA 6010C DOD

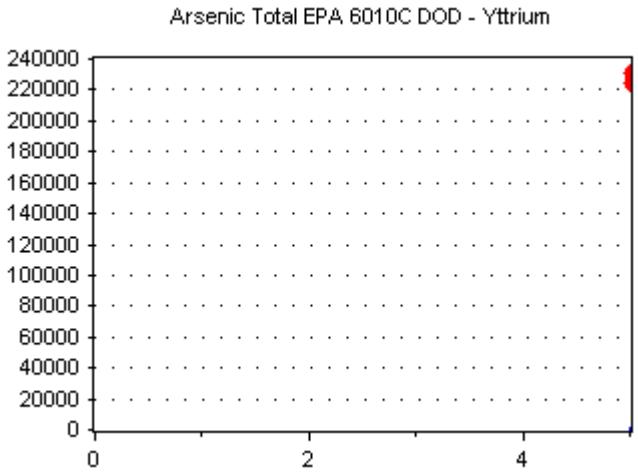
Arsenic



Curve Type: Linear regression
Avg RF/Slope: 2210.079
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	2210.079			2210.079

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

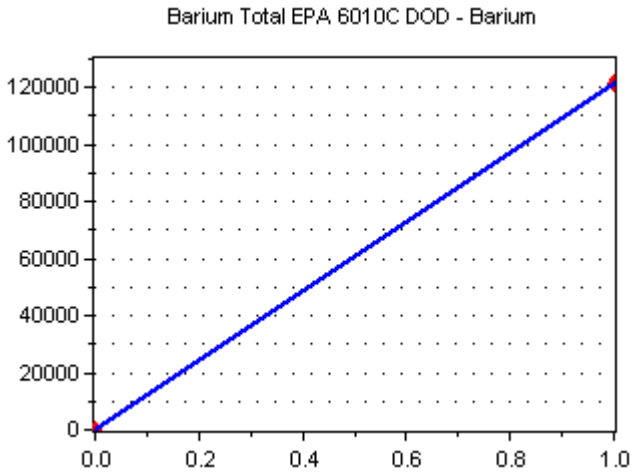
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Barium Total EPA 6010C DOD

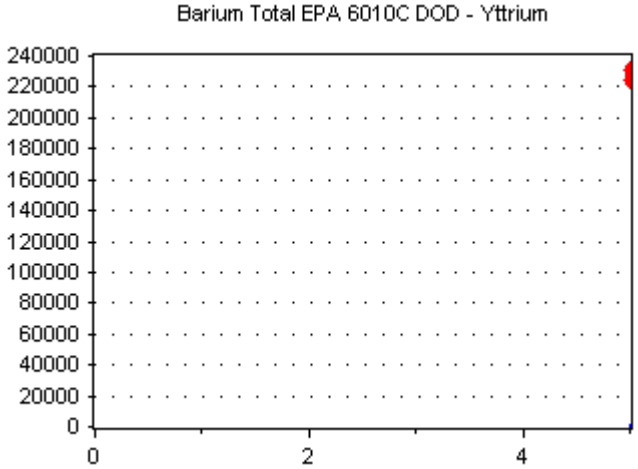
Barium



Curve Type: Linear regression
Avg RF/Slope: 121263.3
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	121263.3			121263.3

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

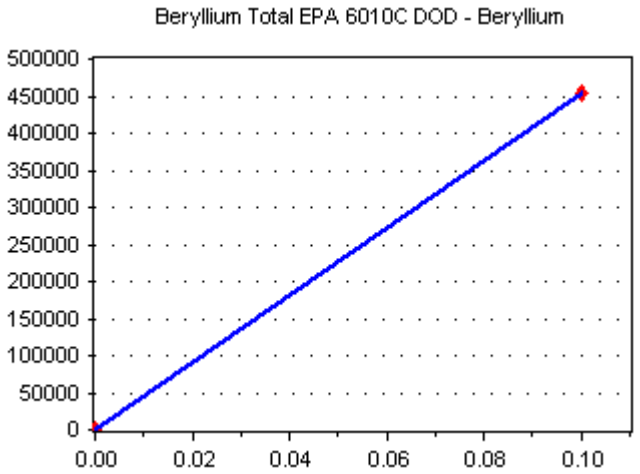
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Beryllium Total EPA 6010C DOD

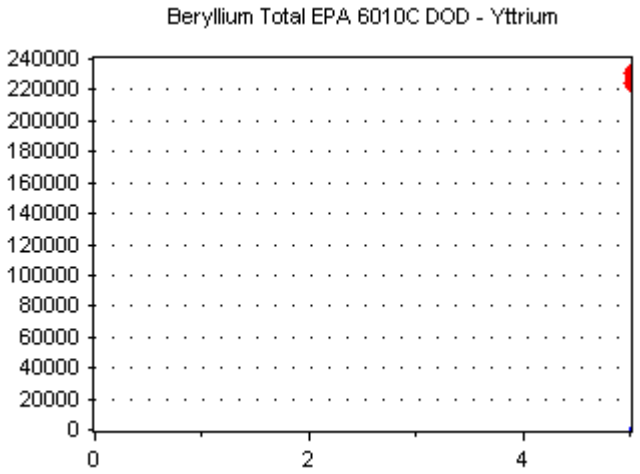
Beryllium



Curve Type: Linear regression
Avg RF/Slope: 4528085
Intercept: 4.618528E-12
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	0.1	452808.5			4528085

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

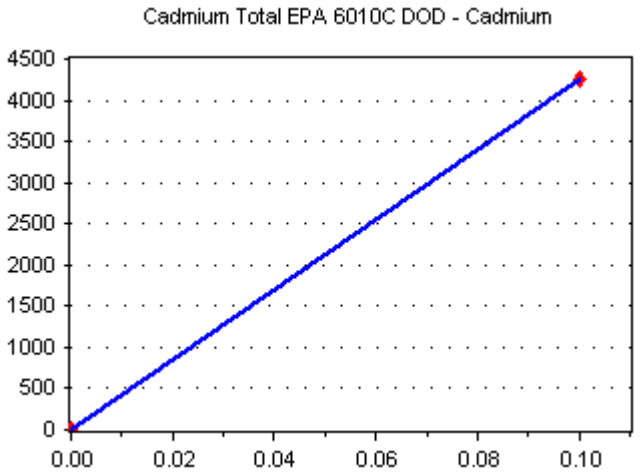
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Cadmium Total EPA 6010C DOD

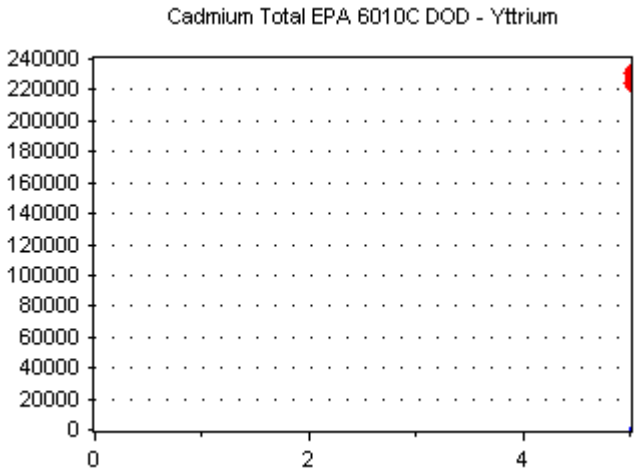
Cadmium



Curve Type: Linear regression
Avg RF/Slope: 42550.97
Intercept: 4.77049E-13
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	0.1	4255.097			42550.97

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

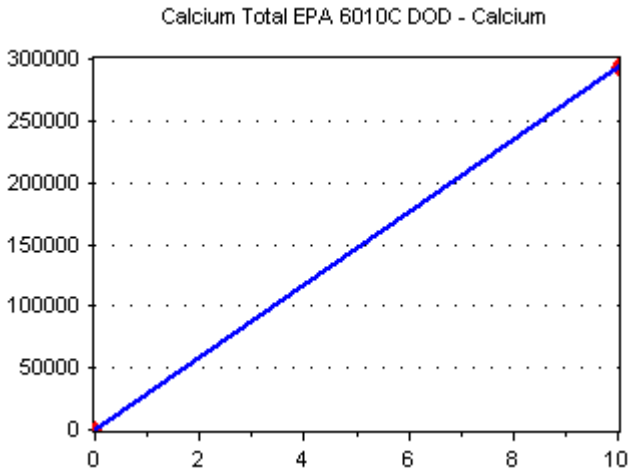
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Calcium Total EPA 6010C DOD

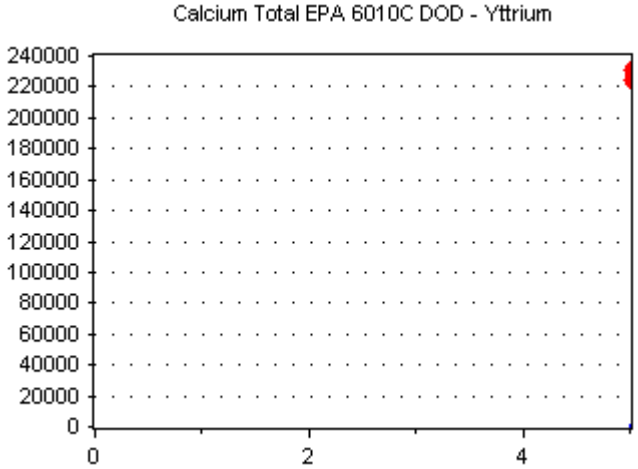
Calcium



Curve Type: Linear regression
Avg RF/Slope: 29316.4
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	10	293164			29316.4

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

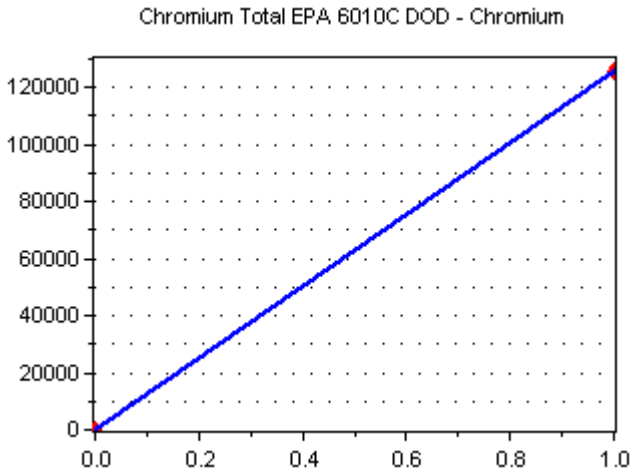
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Chromium Total EPA 6010C DOD

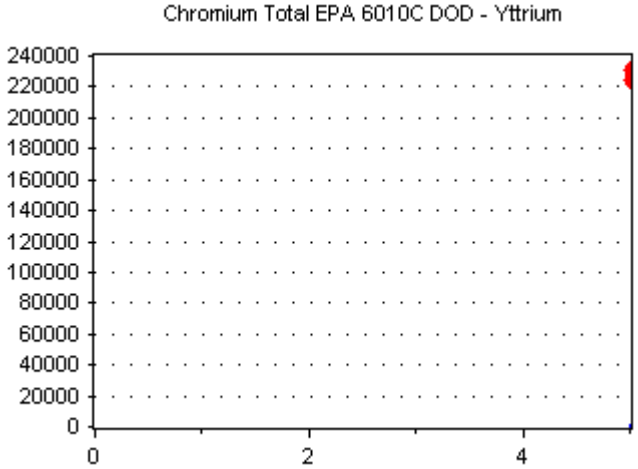
Chromium



Curve Type: Linear regression
Avg RF/Slope: 125832.1
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	125832.1			125832.1

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

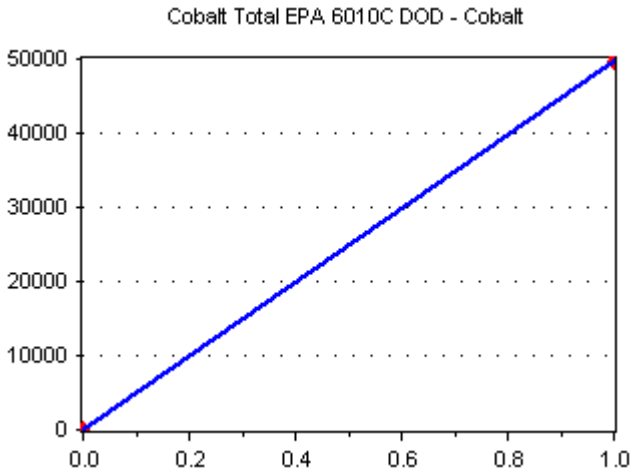
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Cobalt Total EPA 6010C DOD

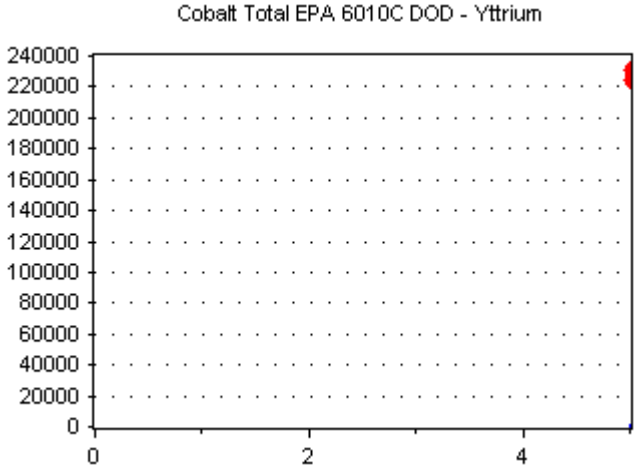
Cobalt



Curve Type: Linear regression
Avg RF/Slope: 49701.78
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	49701.78			49701.78

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

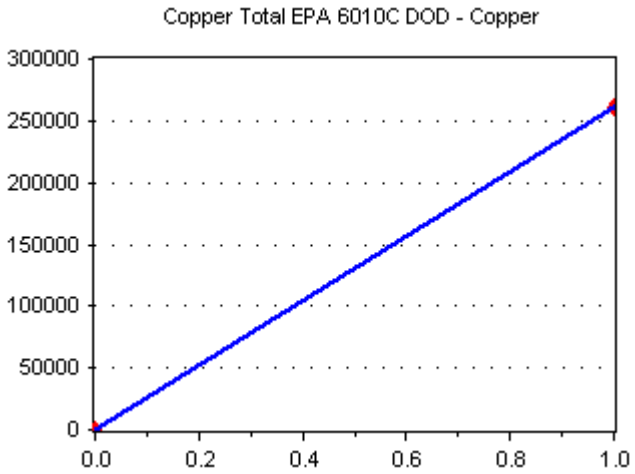
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Copper Total EPA 6010C DOD

Copper



Curve Type: Linear regression

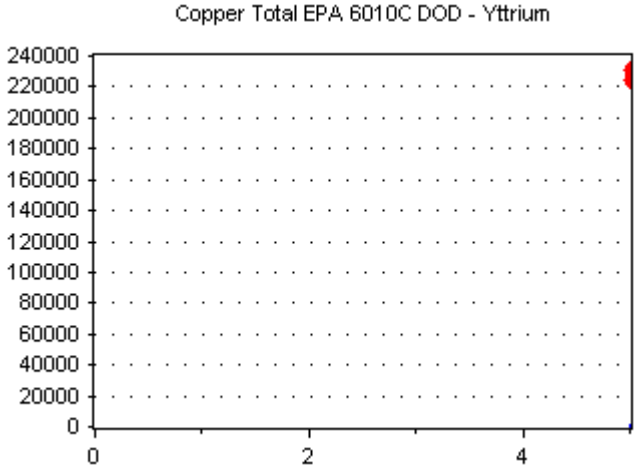
Avg RF/Slope: 261311.4

Intercept: 0

RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	261311.4			261311.4

Yttrium



Curve Type: Linear regression

Avg RF/Slope: 0

Intercept: 0

RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

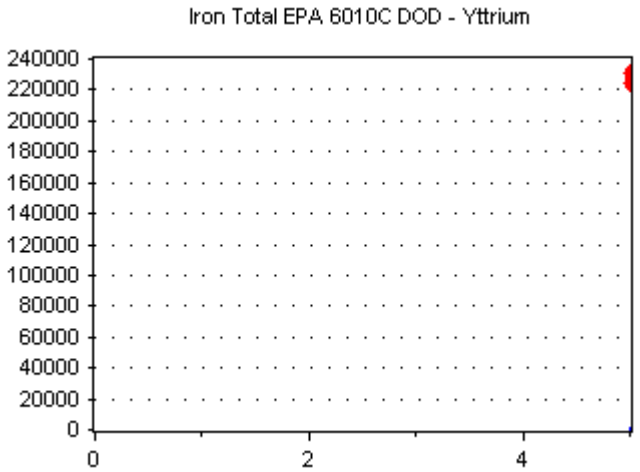
Iron Total EPA 6010C DOD

Iron

Curve Type: Linear regression
Avg RF/Slope: 25176.96
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	5	125884.8			25176.96

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

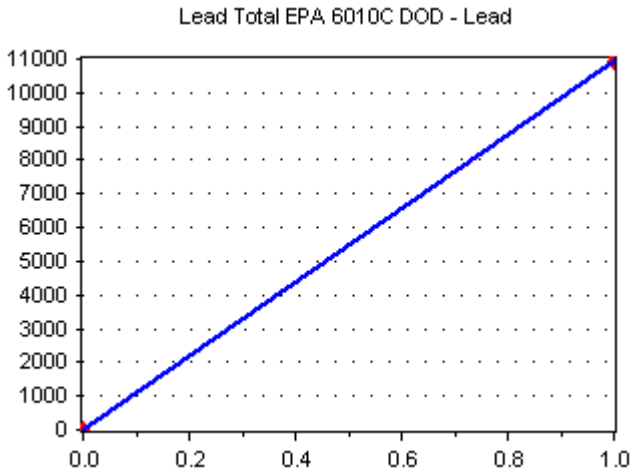
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Lead Total EPA 6010C DOD

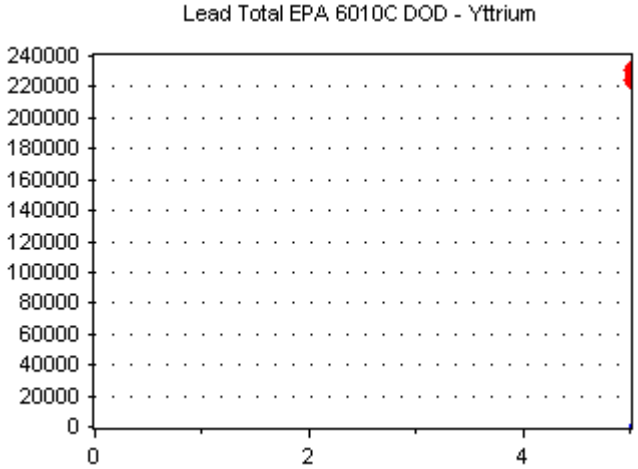
Lead



Curve Type: Linear regression
Avg RF/Slope: 10934.79
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	10934.79			10934.79

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

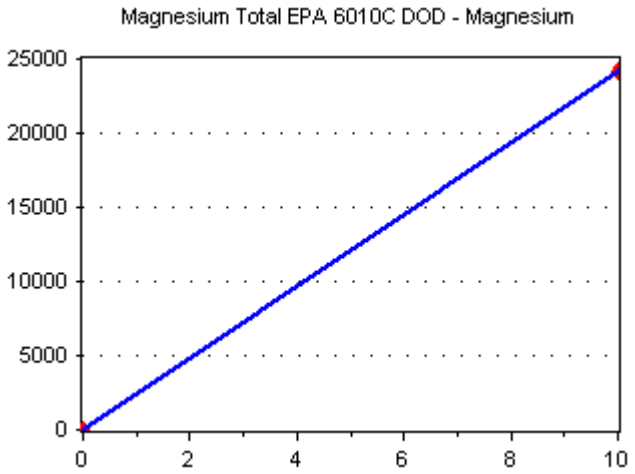
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Magnesium Total EPA 6010C DOD

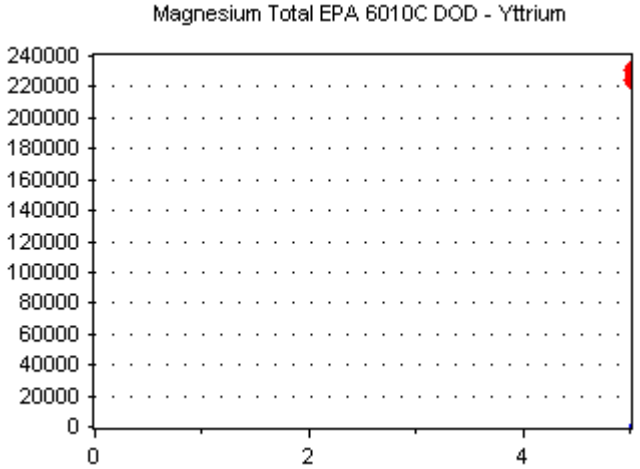
Magnesium



Curve Type: Linear regression
Avg RF/Slope: 2424.816
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	10	24248.16			2424.816

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

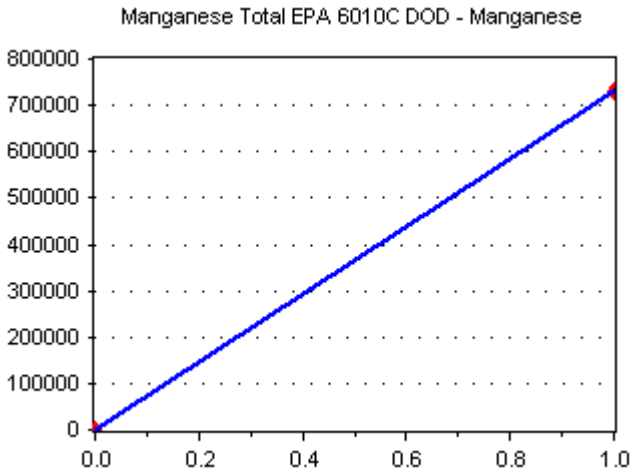
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Manganese Total EPA 6010C DOD

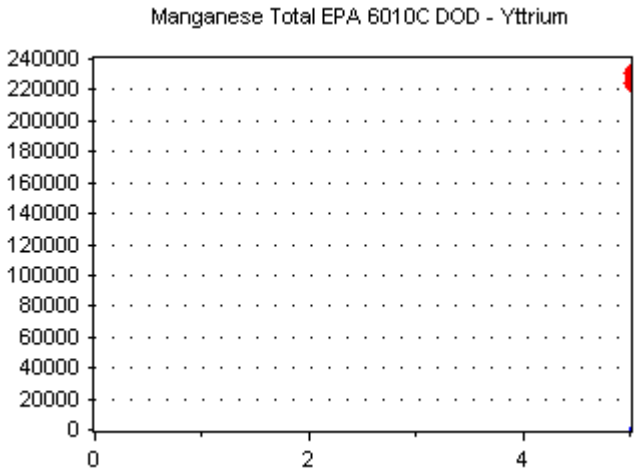
Manganese



Curve Type: Linear regression
Avg RF/Slope: 732480.6
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	732480.6			732480.6

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

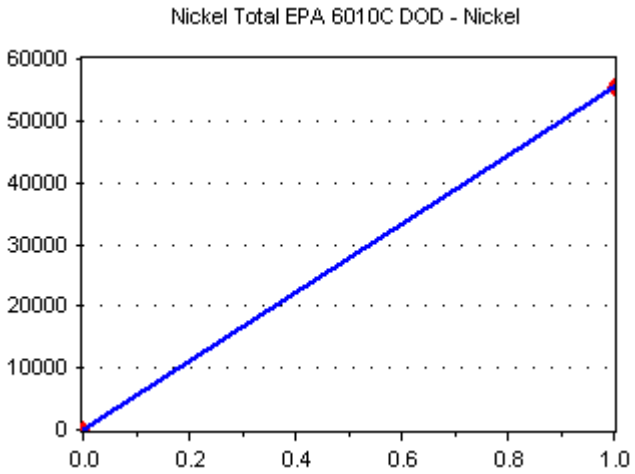
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Nickel Total EPA 6010C DOD

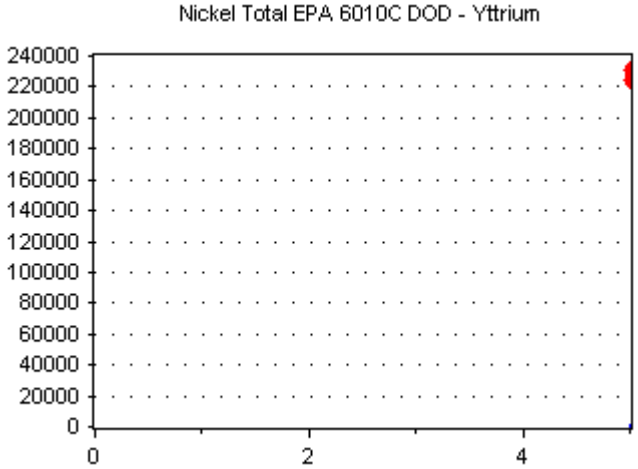
Nickel



Curve Type: Linear regression
Avg RF/Slope: 55330.31
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	55330.31			55330.31

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

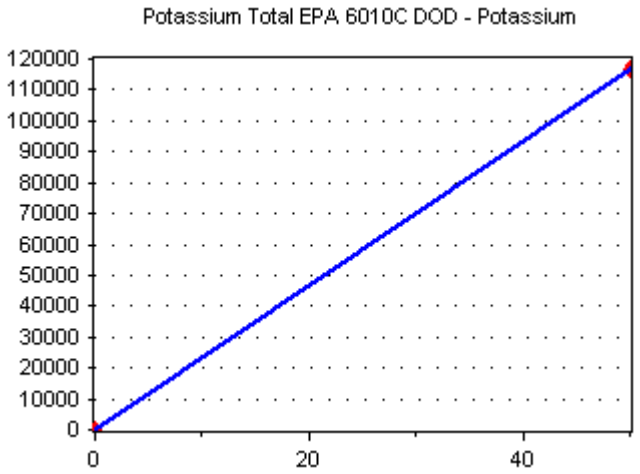
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Potassium Total EPA 6010C DOD

Potassium



Curve Type: Linear regression

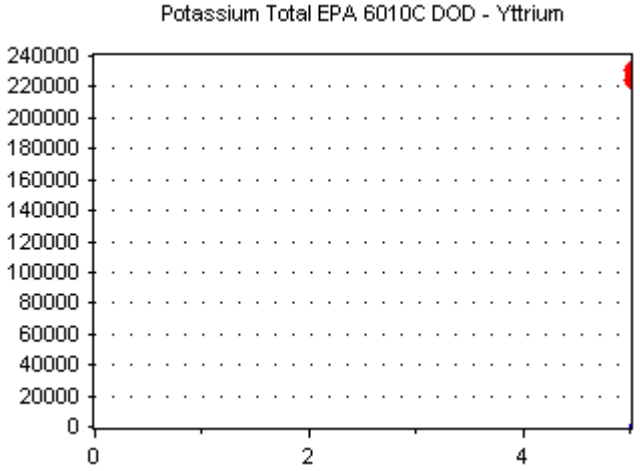
Avg RF/Slope: 2338.944

Intercept: 0

RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	50	116947.2			2338.944

Yttrium



Curve Type: Linear regression

Avg RF/Slope: 0

Intercept: 0

RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

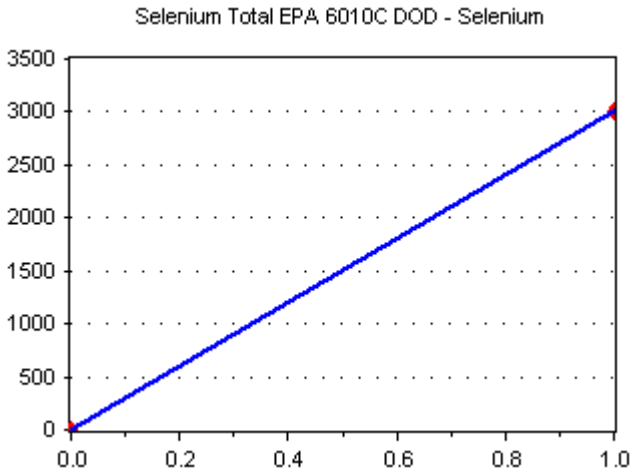
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Selenium Total EPA 6010C DOD

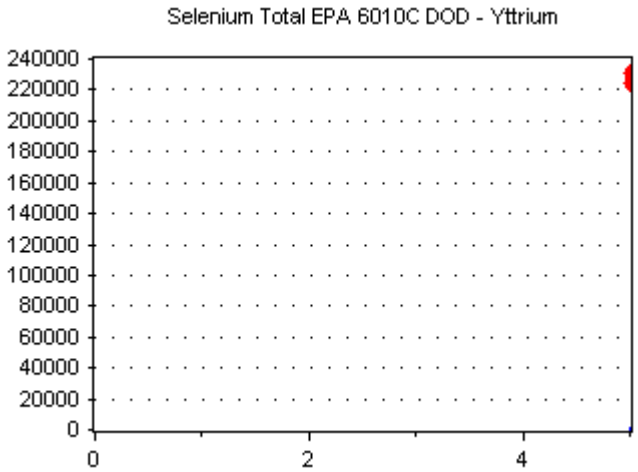
Selenium



Curve Type: Linear regression
Avg RF/Slope: 3005.935
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	3005.935			3005.935

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

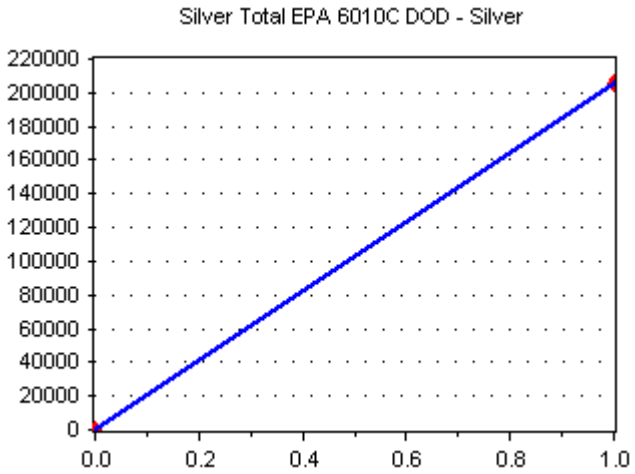
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Silver Total EPA 6010C DOD

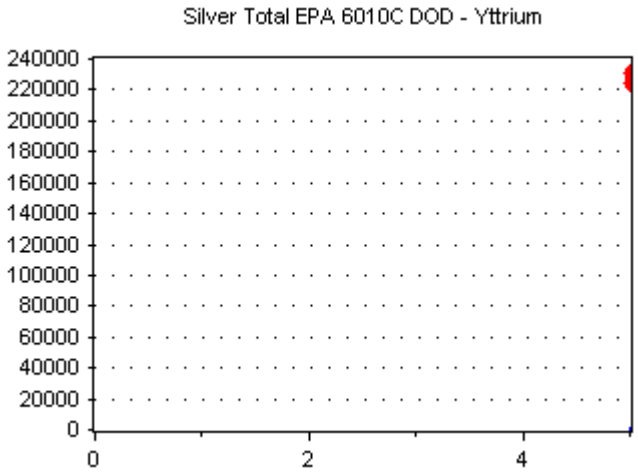
Silver



Curve Type: Linear regression
Avg RF/Slope: 205953.5
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	205953.5			205953.5

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

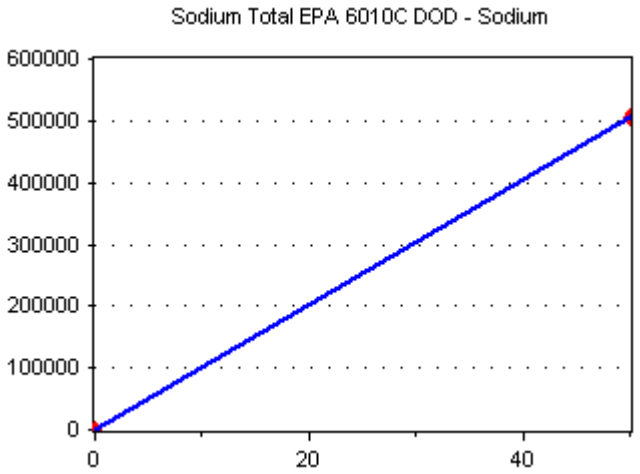
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Sodium Total EPA 6010C DOD

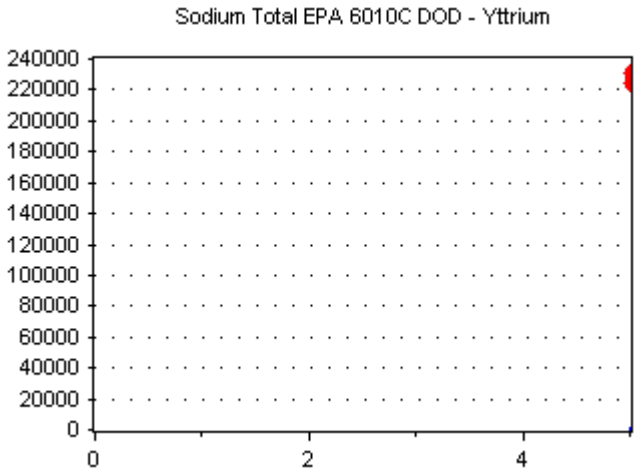
Sodium



Curve Type: Linear regression
Avg RF/Slope: 10121.91
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	50	506095.6			10121.91

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

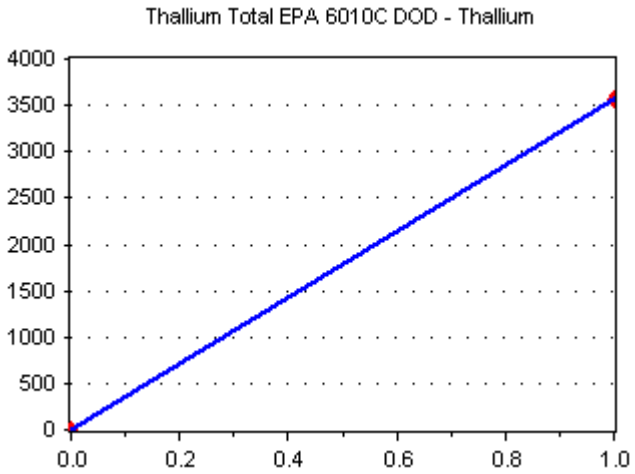
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Thallium Total EPA 6010C DOD

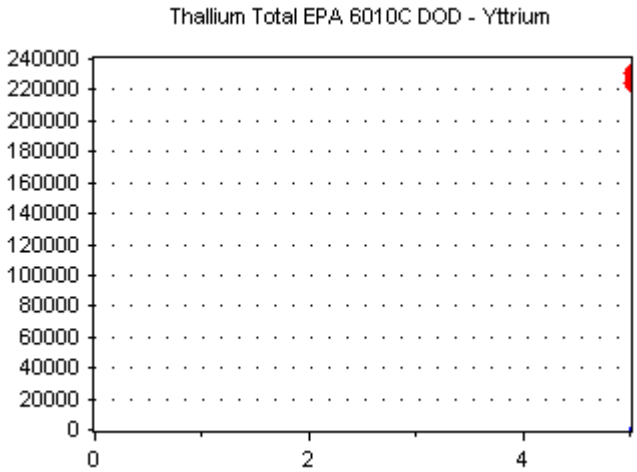
Thallium



Curve Type: Linear regression
Avg RF/Slope: 3560.369
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	3560.369			3560.369

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

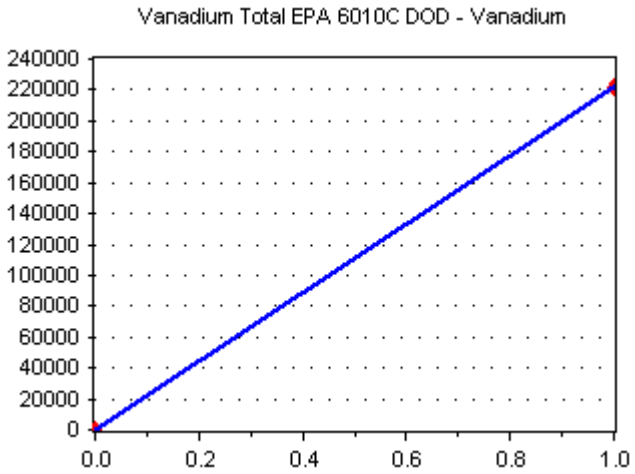
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Vanadium Total EPA 6010C DOD

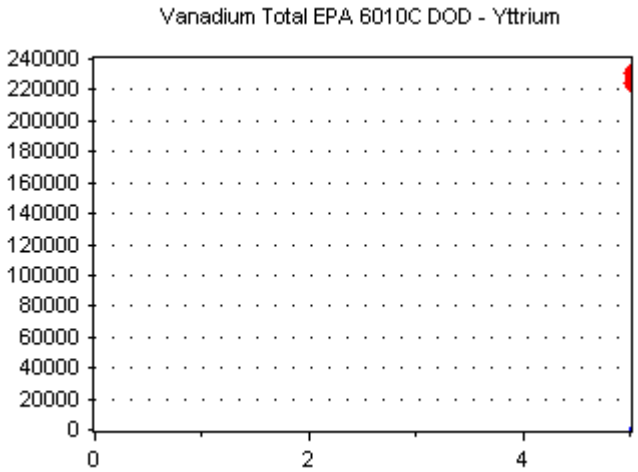
Vanadium



Curve Type: Linear regression
Avg RF/Slope: 221508.1
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	221508.1			221508.1

Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

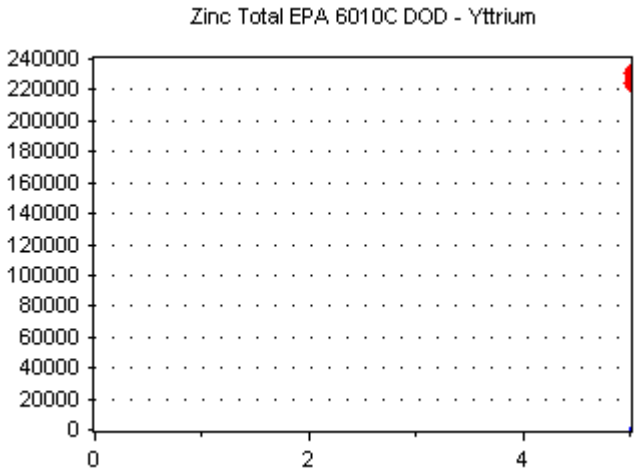
INITIAL CALIBRATION CURVE

Laboratory: **ENCO Jacksonville** **Calibration ID:** **1306019**

Instrument: JMICP2 Created By: ACV Calibration Date: 27-Jun-2013 9:45

Zinc Total EPA 6010C DOD

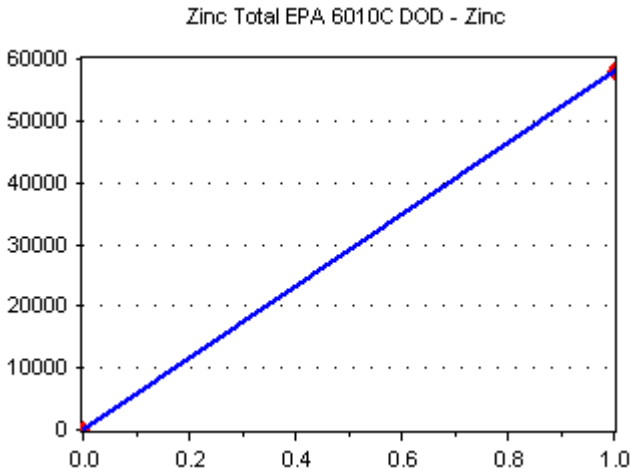
Yttrium



Curve Type: Linear regression
Avg RF/Slope: 0
Intercept: 0
RF RSD/COD: 0

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	5	231333.7			46266.74
BA14232-CAL2	B3E0077	5	225080.7			45016.14

Zinc



Curve Type: Linear regression
Avg RF/Slope: 58020.78
Intercept: 0
RF RSD/COD: 1

Lab Number	Standard ID	Concentration (ug/mL)	Response	ISTD Conc (ug/mL)	ISTD Resp	Response Factor
BA14232-CAL1	B3F0110	0	0			0
BA14232-CAL2	B3E0077	1	58020.78			58020.78

ICAL VERIFICATION

Calibration: 1306019 LRI 6/27/2013 12:30:37PM

ENCO policy QA-008 requires that regression curves be validated to ensure that curve intercepts will not result in mathematically-derived false positive or false negative results. This report facilitates this check, but requires that the curve in Element and in the source data system (Chemstation, Turbochrom, ELAN, etc) be an exact matc The slope and Y-intercept must match exactly to at least three decimal places. Please verify this before using the information on this report.

Aluminum Total EPA 6010C DOI

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Aluminum		mg/L	10.000000	10.0	100	75-125

Antimony Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Antimony		mg/L	1.000000	1.00	100	75-125

Arsenic Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Arsenic		mg/L	1.000000	1.00	100	75-125

Barium Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Barium		mg/L	1.000000	1.00	100	75-125

Beryllium Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Beryllium		mg/L	0.100000	0.100	100	75-125

Cadmium Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Cadmium		mg/L	0.100000	0.100	100	75-125

Calcium Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Calcium		mg/L	10.000000	10.0	100	75-125

Chromium Total EPA 6010C DOI

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Chromium		mg/L	1.000000	1.00	100	75-125

Cobalt Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Cobalt		mg/L	1.000000	1.00	100	75-125

Copper Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Copper		mg/L	1.000000	1.00	100	75-125

Iron Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Iron		mg/L	5.000000	5.00	100	75-125

Lead Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Lead		mg/L	1.000000	1.00	100	75-125

Magnesium Total EPA 6010C DC

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Magnesium		mg/L	10.000000	10.0	100	75-125

Manganese Total EPA 6010C DC

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Manganese		mg/L	1.000000	1.00	100	75-125

ICAL VERIFICATION

Calibration: 1306019 LRI 6/27/2013 12:30:37PM

ENCO policy QA-008 requires that regression curves be validated to ensure that curve intercepts will not result in mathematically-derived false positive or false negative results. This report facilitates this check, but requires that the curve in Element and in the source data system (Chemstation, Turbochrom, ELAN, etc) be an exact matc The slope and Y-intercept must match exactly to at least three decimal places. Please verify this before using the information on this report.

Nickel Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Nickel		mg/L	1.000000	1.00	100	75-125

Potassium Total EPA 6010C DOI

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Potassium		mg/L	50.000000	50.0	100	75-125

Selenium Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Selenium		mg/L	1.000000	1.00	100	75-125

Silver Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Silver		mg/L	1.000000	1.00	100	75-125

Sodium Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Sodium		mg/L	50.000000	50.0	100	75-125

Thallium Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Thallium		mg/L	1.000000	1.00	100	75-125

Vanadium Total EPA 6010C DOI

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Vanadium		mg/L	1.000000	1.00	100	75-125

Zinc Total EPA 6010C DOD

Sample ID	Type	Analyte	MRL	initialunits	calresult	truevalue	%Rec	Limits
BA14232-CAL2	LRI	Zinc		mg/L	1.000000	1.00	100	75-125

Percent Solids via ENCO SOP WETS/72

Workgroup: 3G07002
Product: Solids, Dry Weight
Department: WETCHEM DOD
Balance ID: OWETSBAL1

Prep Date: 7/7/2013 6:50
Date Analyzed : 7/8/2013 13:20
Analyst(s): AH/MMM

7/8/13

Lab ID	Sample Tag	Tin	Tin Wt. (g)	Tin+Sample (wet) (g)	Sample Wt (wet) (g)	Tin+Sample (dry) (g)	Sample Wt (dry) (g)	% Solids
3G07002-DUP1		DUP	1.2896	7.6801	6.3905	6.4193	5.1297	80.2707
A303499-02		1	1.2844	7.6951	6.4107	6.4460	5.1616	80.5154
A303499-03		2	1.2882	7.6600	6.3718	6.3118	5.0236	78.8411
A303499-04		3	1.3021	7.6686	6.3665	6.9558	5.6537	88.8039
A303499-05		4	1.3022	7.6995	6.3973	6.4685	5.1663	80.7575
A303499-06		5	1.2936	7.6818	6.3882	6.6888	5.3952	84.4557
A303499-07		6	1.2908	7.6915	6.4007	6.4552	5.1644	80.6849
A303499-09		7	1.3051	7.6548	6.3497	6.6428	5.3377	84.0622
A303499-10		8	1.2896	7.6524	6.3628	6.3202	5.0306	79.0627
A303499-11		9	1.3065	7.6646	6.3581	6.6087	5.3022	83.3928
A303499-12		10	1.2897	7.6794	6.3897	6.2885	4.9988	78.2322
A303499-14		11	1.2874	7.6751	6.3877	6.7606	5.4732	85.6834
A303499-15		12	1.2910	7.6871	6.3961	6.3656	5.0746	79.3390
A303499-17		13	1.2909	7.6543	6.3634	6.0935	4.8026	75.4722
A303499-18		14	1.2957	7.6714	6.3757	6.1384	4.8427	75.9556
A303499-19		15	1.2872	7.6880	6.4008	6.1920	4.9048	76.6279
A303499-20		16	1.2805	7.6816	6.4011	6.4616	5.1811	80.9408
A303499-21		17	1.2897	7.6884	6.3987	6.7999	5.5102	86.1144
A303499-22		18	1.2985	7.6984	6.3999	5.9149	4.6164	72.1324
CVS	(20 grams)		N/A	19.9999G	N/A	20	N/A	N/A

Sample Duplicate: A303499-02
%RPD: <1%

Oven ID: OWETSOVEN1
Thermometer ID: ORL-T-07

Initial Oven Temperature (degrees Celsius): 105C
Initial Oven In Date/ Time: 7/7/2013 7:30

Final Oven Temperature (degrees Celsius): 105C
Final Oven Out Date/ Time: 7/8/2013 12:45

Rev'd 7/9/13

Comments: