

**Groundwater and Surface Water
Assessment Monitoring Results Report
March 11-12, 2009 Event**

**Watauga County Landfill
Watauga County, North Carolina
NCDENR Permit No. 95-02**

Prepared for:

Watauga County Board of Commissioners

and

North Carolina Department of Environment and Natural Resources
Division of Solid Waste Management
Solid Waste Section

Prepared by:

Draper Aden Associates
Consulting Engineers
2206 S. Main Street
Blacksburg, Virginia 24060
(540) 552-0444

DAA Job No. 6520-39

June 1, 2009



Draper Aden Associates

Engineering • Surveying • Environmental Services

2206 South Main Street
Blacksburg, Virginia 24060
(540) 552-0444 • Fax: (540) 552-0291
www.daa.com

June 1, 2009

Mr. Ervin Lane
Hydrogeologist, Groundwater Compliance Unit
Solid Waste Section, Division of Waste Management
North Carolina Department of Environment and Natural Resources
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

**Re: Watauga County Landfill, Permit #95-02
Assessment Monitoring Program
DAA Job No. 6520-39**

Dear Mr. Lane:

Please find enclosed a report presenting the results of the semiannual Assessment Monitoring event conducted at the Watauga County Landfill on March 11-12, 2009. The report discusses sampling procedures, analytical results and overall conclusions of the monitoring event. The report concludes with a natural attenuation demonstration update incorporating the March 2009 data set and current guidance on developing a monitored natural attenuation remedial proposal.

An Environmental Data Form is attached. Electronic data files, as required by NCDENR Solid Waste Section's "New Guidelines for Electronic Submittal of Environmental Monitoring Data," are included on CD in Appendix E. A report copy in electronic form is also included on the CD in Appendix E.

In addition to the complete electronic analytical data tables, notification tables of groundwater or surface water values that attain or exceed reporting limits, and notification tables of groundwater or surface water values that exceed NC 2L groundwater standards or NC 2B surface water standards, are also included as noted on the attached Solid Waste Environmental Data Form. The required electronic data tables are provided in the EDD folder on the CD in Appendix E. Hard copies of the notification files are attached. Note that no surface water values exceeded NC 2B surface water standards based on human health (organism only) criteria.

Mr. Ervin Lane
June 1, 2009
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The format and naming convention for the data submissions are as specified by the electronic submittal guidelines. Note that these data files provide unvalidated results. Validated results are discussed the report narrative [Section 4.0 (Data Validation) and Section 5.0 (Results)] and are summarized in the Monitoring Result Tables 2A-2C.

The next semiannual monitoring event is scheduled for September 2009. If you should have questions or comments concerning the report or the next event, please do not hesitate to contact me.

Sincerely,
DRAPER ADEN ASSOCIATES



Jeffrey E. Smith
Project Geologist

Attachments: MONITORING REPORT

cc: Mr. Robert Nelson, Watauga County Manager (with enclosure)
Mr. James Potter, Watauga County Landfill Manager (with enclosure)
Mr. Michael Lawless, P.G., Groundwater Project Manager, DAA

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

DRAPER ADEN ASSOCIATES

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Jeff Smith

Phone: 540-552-0444

E-mail: jsmith@daa.com

| Facility name: | Facility Address: | Facility Permit # | NC Landfill Rule: (.0500 or .1600) | Actual sampling dates (e.g., October 20-24, 2006) |
|-------------------------|--------------------------------------|-------------------|------------------------------------|---|
| WATAUGA COUNTY LANDFILL | 336 LANDFILL ROAD BOONE, NC 28607 | 95-02 | 0500 | MARCH 11-12, 2009 |

Environmental Status: (Check all that apply)

- Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

- Groundwater monitoring data from monitoring wells Methane gas monitoring data
 Groundwater monitoring data from private water supply wells Corrective action data (specify) _____
 Leachate monitoring data Other(specify) _____
 Surface water monitoring data

Notification attached?

- No. No groundwater or surface water standards or explosive methane gas limits were exceeded.
 Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
 Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Jeff Smith

Senior Project Geologist

540-552-0444

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Signature

Date

Affix NC Licensed/ Professional Geologist Seal

**Closed Watauga County Landfill - March 11-12, 2009 Assessment Monitoring Event
Groundwater and Surface Water Monitoring Data that Equal or Exceed Reporting Limits**

| FACILITY # | WELL ID # | CAS Number | SWS ID # | PARAMETER | RESULT | UNITS | Q | METHOD | MDL | SWSL | D. F. | COLLECT DATE | ANALYSIS DATE |
|------------|------------|------------|----------|--------------------------|--------|-------|---|--------|------|------|-------|--------------|---------------|
| 95-02 | 9502-MW2 | 74-87-3 | 137 | CHLOROMETHANE | 0.28 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 75-01-4 | 211 | Vinyl Chloride | 0.19 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 67-64-1 | 3 | ACETONE | 3.4 | UG/L | | 8260B | 1.2 | 2.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 75-09-2 | 140 | METHYLENE CHLORIDE | 0.37 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 75-34-3 | 75 | 1,1-DICHLOROETHANE | 25 | UG/L | | 8260B | 0.1 | 0.5 | 12.5 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 71-55-6 | 200 | 1,1,1-TRICHLOROETHANE | 200 | UG/L | | 8260B | 0.1 | 0.5 | 12.5 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 79-01-6 | 201 | TRICHLOROETHENE | 0.27 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 127-18-4 | 192 | TETRACHLOROETHENE | 3.4 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW2 | 75-35-4 | 77 | 1,1-DICHLOROETHENE | 46 | UG/L | | 8260B | 1.3 | 0.5 | 12.5 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-MW3 | 74-87-3 | 137 | CHLOROMETHANE | 0.18 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 75-01-4 | 211 | Vinyl Chloride | 0.14 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 75-00-3 | 41 | CHLOROETHANE | 2.4 | UG/L | | 8260B | 0.13 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 75-69-4 | 203 | TRICHLOROFLUOROMETHANE | 0.11 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 67-64-1 | 3 | ACETONE | 2.5 | UG/L | | 8260B | 1.2 | 2.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 75-09-2 | 140 | METHYLENE CHLORIDE | 0.25 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 156-60-5 | 79 | TRANS-1,2-DICHLOROETHENE | 0.2 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 75-34-3 | 75 | 1,1-DICHLOROETHANE | 8.1 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 156-59-2 | 78 | CIS-1,2-DICHLOROETHENE | 24 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 79-01-6 | 201 | TRICHLOROETHENE | 2.5 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 78-87-5 | 82 | 1,2-DICHLOROPROPANE | 0.26 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW3 | 127-18-4 | 192 | TETRACHLOROETHENE | 0.91 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW8 | 67-64-1 | 3 | ACETONE | 2.7 | UG/L | | 8260B | 1.2 | 2.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW8 | 75-09-2 | 140 | METHYLENE CHLORIDE | 0.2 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW8 | 75-34-3 | 75 | 1,1-DICHLOROETHANE | 0.19 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW8 | 156-59-2 | 78 | CIS-1,2-DICHLOROETHENE | 0.18 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW8 | 79-01-6 | 201 | TRICHLOROETHENE | 0.35 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 75-71-8 | 74 | DICHLORODIFLUOROMETHANE | 0.43 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 75-01-4 | 211 | Vinyl Chloride | 1.7 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 75-00-3 | 41 | CHLOROETHANE | 5.8 | UG/L | | 8260B | 0.13 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 67-64-1 | 3 | ACETONE | 2.6 | UG/L | | 8260B | 1.2 | 2.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 75-09-2 | 140 | METHYLENE CHLORIDE | 0.38 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 156-60-5 | 79 | TRANS-1,2-DICHLOROETHENE | 0.32 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 75-34-3 | 75 | 1,1-DICHLOROETHANE | 15 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 156-59-2 | 78 | CIS-1,2-DICHLOROETHENE | 9.1 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 71-43-2 | 16 | BENZENE | 2.9 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 79-01-6 | 201 | TRICHLOROETHENE | 1.4 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 78-87-5 | 82 | 1,2-DICHLOROPROPANE | 0.22 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 127-18-4 | 192 | TETRACHLOROETHENE | 0.87 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW9 | 108-90-7 | 39 | CHLOROBENZENE | 0.43 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-RES15 | 127-18-4 | 192 | Tetrachloroethene | 0.1 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-RES16 | 156-59-2 | 78 | cis-1,2-Dichloroethene | 0.5 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RES16 | 127-18-4 | 192 | Tetrachloroethene | 0.1 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 75-71-8 | 74 | Dichlorodifluoromethane | 1 | ug/l | | 524.2 | 0.2 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |

**Closed Watauga County Landfill - March 11-12, 2009 Assessment Monitoring Event
Groundwater and Surface Water Monitoring Data that Equal or Exceed Reporting Limits**

| FACILITY # | WELL ID # | CAS Number | SWS ID # | PARAMETER | RESULT | UNITS | Q. | METHOD | MDL | SWSL | D. F. | COLLECT DATE | ANALYSIS DATE |
|------------|-----------|------------|----------|--------------------------|--------|-------|----|--------|------|------|-------|--------------|---------------|
| 95-02 | 9502-RESS | 156-59-2 | 78 | cis-1,2-Dichloroethene | 6.5 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 106-46-7 | 71 | 1,4-Dichlorobenzene | 1.4 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-MW9 | 106-46-7 | 71 | 1,4-DICHLOROBENZENE | 1.4 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 75-01-4 | 211 | Vinyl Chloride | 2.9 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 75-00-3 | 41 | CHLOROETHANE | 9.9 | UG/L | | 8260B | 0.13 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 75-35-4 | 77 | 1,1-DICHLOROETHENE | 0.32 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 67-64-1 | 3 | ACETONE | 2.6 | UG/L | | 8260B | 1.2 | 2.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 75-09-2 | 140 | METHYLENE CHLORIDE | 0.59 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 156-60-5 | 79 | TRANS-1,2-DICHLOROETHENE | 0.67 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 75-34-3 | 75 | 1,1-DICHLOROETHANE | 25 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 156-59-2 | 78 | CIS-1,2-DICHLOROETHENE | 59 | UG/L | | 8260B | 0.1 | 0.5 | 4.2 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 67-66-3 | 44 | CHLOROFORM | 0.65 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 71-43-2 | 16 | BENZENE | 0.36 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 107-06-2 | 76 | 1,2-DICHLOROETHANE | 0.65 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 79-01-6 | 201 | TRICHLOROETHENE | 5.1 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 78-87-5 | 82 | 1,2-DICHLOROPROPANE | 0.89 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-RESS | 75-01-4 | 211 | Vinyl Chloride | 0.4 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 75-00-3 | 41 | Chloroethane | 11 | ug/l | | 524.2 | 0.2 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 75-35-4 | 77 | 1,1-Dichloroethene | 1.5 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 75-09-2 | 140 | Methylene Chloride | 1.7 | ug/l | | 524.2 | 0.3 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 156-60-5 | 79 | trans-1,2-Dichloroethene | 0.2 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 75-34-3 | 75 | 1,1-Dichloroethane | 33 | ug/l | | 524.2 | 0.5 | 2.5 | 5 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 71-43-2 | 16 | Benzene | 0.6 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 79-01-6 | 201 | Trichloroethene | 1 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 78-87-5 | 82 | 1,2-Dichloropropane | 0.2 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 127-18-4 | 192 | Tetrachloroethene | 0.4 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RESS | 108-90-7 | 39 | Chlorobenzene | 0.2 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RES2 | 75-71-8 | 74 | Dichlorodifluoromethane | 0.3 | ug/l | J | 524.2 | 0.2 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RES2 | 156-59-2 | 78 | cis-1,2-Dichloroethene | 0.1 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RES2 | 75-01-4 | 211 | Vinyl Chloride | 0.1 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RES2 | 75-00-3 | 41 | Chloroethane | 0.5 | ug/l | | 524.2 | 0.2 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RES2 | 75-34-3 | 75 | 1,1-Dichloroethane | 4.2 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-RES2 | 108-88-3 | 196 | Toluene | 1 | ug/l | | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-MW12 | 127-18-4 | 192 | TETRACHLOROETHENE | 4.6 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 108-90-7 | 39 | CHLOROBENZENE | 0.35 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW12 | 106-46-7 | 71 | 1,4-DICHLOROBENZENE | 2.7 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW17 | 67-64-1 | 3 | ACETONE | 2.7 | UG/L | | 8260B | 1.2 | 2.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW17 | 75-09-2 | 140 | METHYLENE CHLORIDE | 0.16 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW17 | 75-34-3 | 75 | 1,1-DICHLOROETHANE | 2.3 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW17 | 156-59-2 | 78 | CIS-1,2-DICHLOROETHENE | 6.1 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW17 | 79-01-6 | 201 | TRICHLOROETHENE | 1.1 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW17 | 127-18-4 | 192 | TETRACHLOROETHENE | 4.2 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |
| 95-02 | 9502-MW17 | 91-20-3 | 148 | NAPHTHALENE | 0.2 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 |

**Closed Watauga County Landfill - March 11-12, 2009 Assessment Monitoring Event
Groundwater and Surface Water Monitoring Data that Equal or Exceed Reporting Limits**

| FACILITY # | WELL ID # | CAS Number | SWS ID # | PARAMETER | RESULT | UNITS | Q. | METHOD | MDL | SWSL | D. F. | COLLECT DATE | ANALYSIS DATE |
|------------|-----------|------------|----------|------------------------|--------|-------|----|---------|------|------|-------|--------------|---------------|
| 95-02 | 9502-MW12 | 7440-39-3 | 15 | BARIUM | 326 | UG/L | | ILM04.1 | 0.3 | 200 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW12 | 7440-47-3 | 51 | CHROMIUM | 0.8 | UG/L | B | ILM04.1 | 0.7 | 10 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW12 | 7440-48-4 | 53 | COBALT | 1.7 | UG/L | B | ILM04.1 | 1.6 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW12 | 7440-02-0 | 152 | NICKEL | 4 | UG/L | B | ILM04.1 | 0.67 | 40 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW12 | 7440-62-2 | 209 | VANADIUM | 0.89 | UG/L | B | ILM04.1 | 0.57 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW17 | 7440-39-3 | 15 | BARIUM | 510 | UG/L | | ILM04.1 | 0.3 | 200 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW17 | 7440-47-3 | 51 | CHROMIUM | 2.3 | UG/L | B | ILM04.1 | 0.7 | 10 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW17 | 7440-48-4 | 53 | COBALT | 4.9 | UG/L | B | ILM04.1 | 1.6 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW17 | 7439-89-6 | 340 | IRON | 948 | UG/L | | ILM04.1 | 24.6 | 100 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW17 | 7440-02-0 | 152 | NICKEL | 3.6 | UG/L | B | ILM04.1 | 0.67 | 40 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW17 | 7440-62-2 | 209 | VANADIUM | 2.1 | UG/L | B | ILM04.1 | 0.57 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW2 | 7440-39-3 | 15 | BARIUM | 224 | UG/L | | ILM04.1 | 0.3 | 200 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW2 | 7440-47-3 | 51 | CHROMIUM | 2.6 | UG/L | B | ILM04.1 | 0.7 | 10 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW2 | 7439-89-6 | 340 | IRON | 440 | UG/L | | ILM04.1 | 24.6 | 100 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW2 | 7440-02-0 | 152 | NICKEL | 3.5 | UG/L | B | ILM04.1 | 0.67 | 40 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW2 | 7440-62-2 | 209 | VANADIUM | 2.1 | UG/L | B | ILM04.1 | 0.57 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW3 | 7440-39-3 | 15 | BARIUM | 168 | UG/L | B | ILM04.1 | 0.3 | 200 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW3 | 7440-47-3 | 51 | CHROMIUM | 42.6 | UG/L | | ILM04.1 | 0.7 | 10 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW3 | 7440-48-4 | 53 | COBALT | 4.1 | UG/L | B | ILM04.1 | 1.6 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW3 | 7439-89-6 | 340 | IRON | 6850 | UG/L | | ILM04.1 | 24.6 | 100 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW3 | 7440-02-0 | 152 | NICKEL | 25.8 | UG/L | B | ILM04.1 | 0.67 | 40 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW3 | 7440-62-2 | 209 | VANADIUM | 14.6 | UG/L | B | ILM04.1 | 0.57 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW8 | 7440-39-3 | 15 | BARIUM | 113 | UG/L | B | ILM04.1 | 0.3 | 200 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW8 | 7440-47-3 | 51 | CHROMIUM | 13.1 | UG/L | | ILM04.1 | 0.7 | 10 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW8 | 7440-48-4 | 53 | COBALT | 3.6 | UG/L | B | ILM04.1 | 1.6 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW8 | 7439-89-6 | 340 | IRON | 5490 | UG/L | | ILM04.1 | 24.6 | 100 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW8 | 7440-02-0 | 152 | NICKEL | 7.3 | UG/L | B | ILM04.1 | 0.67 | 40 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW8 | 7440-62-2 | 209 | VANADIUM | 13.3 | UG/L | B | ILM04.1 | 0.57 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW9 | 7440-39-3 | 15 | BARIUM | 594 | UG/L | | ILM04.1 | 0.3 | 200 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW9 | 7440-47-3 | 51 | CHROMIUM | 0.88 | UG/L | B | ILM04.1 | 0.7 | 10 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW9 | 7440-48-4 | 53 | COBALT | 8.3 | UG/L | B | ILM04.1 | 1.6 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW9 | 7439-89-6 | 340 | IRON | 144 | UG/L | | ILM04.1 | 24.6 | 100 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW9 | 7440-02-0 | 152 | NICKEL | 2.3 | UG/L | B | ILM04.1 | 0.67 | 40 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-MW9 | 7440-62-2 | 209 | VANADIUM | 0.64 | UG/L | B | ILM04.1 | 0.57 | 50 | 1 | 3/12/2009 | 3/23/2009 |
| 95-02 | 9502-S2 | 75-00-3 | 41 | CHLOROETHANE | 6 | UG/L | J | OLM04.3 | 2 | 10 | 1 | 3/12/2009 | 3/17/2009 |
| 95-02 | 9502-S4 | 75-34-3 | 75 | 1,1-DICHLOROETHANE | 4 | UG/L | J | OLM04.3 | 2 | 10 | 1 | 3/12/2009 | 3/20/2009 |
| 95-02 | 9502-S4 | 156-59-2 | 78 | CIS-1,2-DICHLOROETHENE | 9 | UG/L | J | OLM04.3 | 2 | 10 | 1 | 3/12/2009 | 3/20/2009 |

Closed Watauga County Landfill - March 11-12, 2009
Groundwater Water Monitoring Data that Exceed NC 2L Standards.

| FACILITY # | WELL ID # | CAS Number | SWS ID # | PARAMETER | RESULT | UNITS | Q | METHOD | MDL | SWSL | D. F. | COLLECT DATE | ANALYSIS DATE | 2L std |
|------------|-----------|------------|----------|---------------------|--------|-------|---|--------|------|------|-------|--------------|---------------|--------|
| 95-02 | 9502-MW9 | 71-43-2 | 16 | BENZENE | 2.9 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 1 |
| 95-02 | 9502-MW12 | 106-46-7 | 71 | 1,4-DICHLOROETHANE | 2.7 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 1.4 |
| 95-02 | 9502-MW12 | 107-06-2 | 76 | 1,2-DICHLOROETHANE | 0.65 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.38 |
| 95-02 | 9502-MW2 | 75-35-4 | 77 | 1,1-DICHLOROETHENE | 46 | UG/L | | 8260B | 1.3 | 0.5 | 12.5 | 3/12/2009 | 3/20/2009 | 7 |
| 95-02 | 9502-MW12 | 78-87-5 | 82 | 1,2-DICHLOROPROPANE | 0.89 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.51 |
| 95-02 | 9502-MW9 | 127-18-4 | 192 | TETRACHLOROETHENE | 0.87 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.7 |
| 95-02 | 9502-MW12 | 127-18-4 | 192 | TETRACHLOROETHENE | 4.6 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.7 |
| 95-02 | 9502-MW3 | 127-18-4 | 192 | TETRACHLOROETHENE | 0.91 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.7 |
| 95-02 | 9502-MW2 | 127-18-4 | 192 | TETRACHLOROETHENE | 3.4 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.7 |
| 95-02 | 9502-MW17 | 127-18-4 | 192 | TETRACHLOROETHENE | 4.2 | UG/L | | 8260B | 0.11 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.7 |
| 95-02 | 9502-MW12 | 79-01-6 | 201 | TRICHLOROETHENE | 5.1 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 2.8 |
| 95-02 | 9502-RES2 | 75-01-4 | 211 | Vinyl Chloride | 0.1 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 | 0.015 |
| 95-02 | 9502-MW2 | 75-01-4 | 211 | Vinyl Chloride | 0.19 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.015 |
| 95-02 | 9502-RESS | 75-01-4 | 211 | Vinyl Chloride | 0.4 | ug/l | J | 524.2 | 0.1 | 0.5 | 1 | 3/12/2009 | 3/20/2009 | 0.015 |
| 95-02 | 9502-MW9 | 75-01-4 | 211 | Vinyl Chloride | 1.7 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.015 |
| 95-02 | 9502-MW12 | 75-01-4 | 211 | Vinyl Chloride | 2.9 | UG/L | | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.015 |
| 95-02 | 9502-MW3 | 75-01-4 | 211 | Vinyl Chloride | 0.14 | UG/L | J | 8260B | 0.1 | 0.5 | 1 | 3/12/2009 | 3/19/2009 | 0.015 |

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Conclusions presented by DAA do not reflect variations in subsurface groundwater quality that might exist between or beyond sampling points or between specific sample collections events. DAA shall incur no liability resulting from information supplied by others.

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Report copy on CD including:

NCEDD (Electronic Data Deliverables)
EDDs – All Data
EDDs – Detections Only
EDDs – Detections above 2L or 2B Standards
Laboratory Analytical Summary Data Sheets,
Data Validation Summary Reports, and
Laboratory QA/QC Reports.

EXECUTIVE SUMMARY

This report presents the results of the first semiannual 2009 Assessment monitoring groundwater and surface water sampling event at the Watauga County Landfill, NCDENR Permit No. 95-02, Watauga County, North Carolina, conducted on March 11-12, 2009 by Draper Aden Associates. Assessment monitoring was conducted in accordance with the Watauga County Landfill Assessment Plan (DAA, Sept. 3, 1993) and subsequent monitoring program revisions as approved by the NCDENR.

In June 1998, the NCDENR approved the following monitoring program revisions:

- 1) the initiation of monitoring a smaller set of the core monitoring wells for semiannual monitoring and a larger set for annual monitoring,
- 2) annual rather than semiannual analysis for target metals, and
- 3) withdrawal of select non-impacted monitoring wells from routine groundwater monitoring.

The September 2008 event incorporated the larger set of the core monitoring wells. The March 2009 event incorporated the core monitoring well subset.

A remedial cap was installed at the facility in the fall of 1996. The remedial cap focuses on source containment as an immediate remedial action, as established by the EPA's presumptive remedy directive (EPA 540-F-93-035, September 1993). Additional risk assessment activities address exposure pathways outside the source area. These activities include the extension of public water along the Route 421 alignment north of the facility and to select residences located south of the facility. These response actions for exposure pathways outside the source area are being combined with the presumptive remedy to develop a comprehensive site response. Source containment, implemented through a remedial cap, supplemented by risk assessment, institutional controls, natural attenuation, and continuing assessment investigation comprise the broad package of remedial actions currently being conducted at the site.

The northern edge of the occurrence of assessment target parameters in the groundwater continues to be approximated by the Route 421 bypass. South of the bypass, these parameters are concentrated between the southern saddle, located between the landfill and the Rocky Mountain Heights Subdivision, and the west and north drainages below the landfill. Significant decreases in target parameter concentrations, as well as reductions in the extent of impact, continue to be observed in impacted groundwater and surface water across the site.

Monitoring results continue to demonstrate the extent of impact is retreating and concentrations within the impacted area are diminishing. A general reduction trend from more highly chlorinated compounds (i.e., PCE, TCE, and 1,1,1-TCA) to less chlorinated compounds (i.e., cis-1,2-DCE, 1,1-DCA and CA) is observed.

In August 1999, the NCDENR requested that Watauga County present an updated site conceptual model. The initial site conceptual model was presented in the Assessment Plan, dated

September 3, 1993. Specifics of the site conceptual model (i.e., geologic maps, potentiometric maps, cross-sections, boring logs, etc.) have been refined in subsequent investigation reports (i.e., the Assessment Activity Report, dated July 1994; the Remedial Investigation and Alternatives Report, dated January 1996; and multiple semiannual monitoring event reports). The site conceptual model was revisited in the July 1999 Monitoring Event Report, dated January 5, 2000. The updated site conceptual model clearly demonstrated the reductions in extent and concentration of impact observed across the site.

The site conceptual model is refined as additional data is collected. This updated site model, presented graphically with both concentration trend graphs and chronological delineation maps, illustrated the significant reductions in the extent and concentration of impact that have occurred across the site. Comparisons of relative concentrations over time demonstrate the role of reductive reactions in the natural attenuation processes active across the site. Although North Carolina Groundwater Protection Standards continue to be exceeded at the property boundary, the concentration, extent, and total mass of impact at the site is declining.

The natural attenuation demonstration is also refined as additional data is collected. Natural attenuation proceeds due to a wide variety of processes (i.e., advection, adsorption, biological degradation, chemical degradation, dispersion and volatilization). All of these attenuation processes can contribute to reducing toxicity, mobility or volume to levels protective of human health and the ecosystem. The natural attenuation demonstration update emphasized the combination of decreasing constituent concentrations and lack of plume migration, which provide evidence for the natural attenuation of groundwater impact at the site. Geochemical and organic changes within the groundwater that support biological and chemical degradation of impacts at the site were also characterized.

The natural attenuation demonstration illustrated how initial degradation of the more highly chlorinated solvents at the site (i.e., PCE, TCE, and 1,1,1-TCA) is driven by reductive dechlorination. The demonstration further illustrated how the daughter products of this process (i.e., cis-1,2-DCE, 1,1-DCA, CA, vinyl chloride, etc.) are further degraded by aerobic oxidation.

In order to provide the data necessary to demonstrate specific conditions affecting both reductive dechlorination and aerobic degradation at the site, the wells were sampled semiannually for several key geochemical MNA indicator parameters from February 2000 to July 2003. Relationships were established for these geochemical parameters (oxygen, total residual chlorine, total organic carbon, methane, nitrate, sulfate, etc.) that demonstrated the chemical dynamics at work to reduce the extent and concentration of impact. Select field MNA indicator parameters are currently sampled semiannually, during sampling of the larger core well set.

Graphical tests for evaluating plume stability and behavior that have been established for evaluating the performance of natural attenuation are presented at the conclusion of this report. These graphical tests use the site historical data to display statistically significant plume stabilization and a loss of plume mass over time. The combination of decreasing constituent concentrations and the lack of plume migration provide reasonable evidence for natural attenuation of impact at the site.

1.0 INTRODUCTION

This report presents the results of the first semiannual 2009 Assessment monitoring groundwater and surface water sampling event, conducted at the Watauga County Landfill, NCDENR Permit No. 95-02, Watauga County, North Carolina, on March 11-12, 2009 by Draper Aden Associates. The report discusses sampling procedures, analytical results, and overall conclusions of the monitoring event. Tables and figures are provided in Appendix A. A summary of analytical results is presented in Tables 2A, 2B, and 2C. Groundwater elevation measurements are provided in Table 4. Background analytical results are provided in Tables 5A-C. The Groundwater and Surface Water Monitoring Program site map is provided as Figure 1. The potentiometric surface, inferred from data obtained on March 11, 2009, is provided as Figure 2.

NCDENR Guidance, dated October 27, 2006, and updated through October 16, 2007, provides guidelines for electronic submittal of environmental monitoring data. The guidelines require that in lieu of a cover letter, a Solid Waste Environmental Monitoring Data Form be submitted with all environmental data reports. Notification tables are also required of 1) concentrations that exceed NC 2L groundwater standards and 2B surface water standards, and 2) concentrations that exceed reporting limits. The Guidance also encourages the electronic submittal (CD-ROM) of the entire report, including narrative text, figures, tables, and data (Appendix E).

Appendix E contains electronic concentration data files conforming to the format required by NCDENR electronic submittal guidelines. Note that these data files provide un-validated results. Validated results are discussed the report narrative [Section 4.0 (Data Validation) and Section 5.0 (Results)] and are summarized in the Monitoring Result Tables 2A, 2B, and 2C.

Appendix E also contains copies of the laboratory summary data sheets, as well as all associated laboratory data, with data validation summaries and completed Quality Assurance/Quality Control (QA/QC) criteria forms used to validate the data.

The report narrative concludes with a discussion of the natural attenuation indicator sampling results, and the relative distribution of target parameter concentrations. An updated review of concentration and distribution trends is also provided.

Assessment monitoring is conducted in accordance with the Watauga County Landfill Assessment Plan (DAA, September 3, 1993) and monitoring program revisions as detailed in the Remedial Investigation and Alternatives Report (DAA, January 12, 1996) and subsequent monitoring event reports. Appendix I of the Assessment Plan, The Groundwater and Surface Water Monitoring Program, details the schedule and procedures to be implemented for collecting groundwater and surface water samples, analyzing the samples for specified parameters, and evaluating and reporting data. The current monitoring schedule is summarized in Table 1.

1.1 Groundwater Monitoring Well Network

Nineteen groundwater monitoring wells (MW-1 through MW-19) have been installed at the Watauga County Landfill. Monitoring well locations are shown on the Groundwater and Surface Water Monitoring Program site map (Figure 1). As noted on Figure 2, MW-6 and MW-16 were abandoned subsequent to the second semiannual assessment monitoring event (April 1996). Abandonment of MW-6 was necessary to permit construction of the landfill cap and abandonment of MW-16 was necessary to permit construction of the 421 bypass. Abandonment of MW-7 was completed in October 2002 to permit the extension of transfer station access routes.

In order to maximize the effectiveness and efficiency of the groundwater monitoring program, the assessment well network is stratified into two groups of "core" and "boundary" wells. Core assessment wells are selected based on each well's ability to monitor and characterize migration of potential impacts. Boundary assessment wells are selected based on each well's ability to monitor and characterize the limits of the horizontal and vertical extent of impact.

In July 1995, after the first semiannual assessment event (fifth assessment event), NCDENR approved the withdrawal of non-impacted boundary wells from the routine compliance monitoring program on the condition that the boundary wells be rotated in and out of routine monitoring on a regular basis. The boundary wells were sampled again during 1997-1998. NCDENR subsequently approved withdrawal of select non-impacted boundary wells from routine groundwater monitoring. The wells were not sampled during 1999-2000. In February 2001 and February 2002, the six non-impacted boundary wells were sampled and analyzed for the target organic and other natural attenuation indicator parameters. The data collected from these wells continue to indicate that they are not impacted. Future monitoring of these wells will continue to be based on an annual review of temporal contaminant distribution trends and other site characterization needs.

In June 1998, NCDENR approved the initiation of monitoring a smaller set of the core monitoring well network for semiannual monitoring and a larger set for annual monitoring. The subset of the existing twelve core well network approved for semiannual monitoring includes the following six wells: MW-2, MW-3, MW-8, MW-9, MW-12 and MW-17. In 1998, the groundwater at these six monitoring points exceeded the EPA MCL for one or more organic target parameters.

The current stratification of the assessment monitoring well network is as follows:

| <u>CORE WELLS</u> | <u>BOUNDARY WELLS</u> |
|------------------------|------------------------|
| MW-1 | MW-4 |
| MW-2* | MW-5 |
| MW-3* | MW-13 |
| MW-6 (abandoned 1996) | MW-14 |
| MW-7 (abandoned 10/02) | MW-16 (abandoned 1996) |
| MW-8* | MW-18 |
| MW-9* | |

MW-10
MW-11
MW-12*
MW-15
MW-17*
MW-19

* - core-subset well

The core wells were sampled in September 2008; the core well subset was sampled in March 2009.

1.2 Surface Water Sampling

The goal of the surface water monitoring system at Watauga County Landfill is to provide representative surface water samples for assessing the water quality downgradient of the waste disposal area. Six surface water monitoring points serve to meet this objective.

- (S-1) The last of the series of sediment ponds is sampled to assess the quality of the surface water originating from the landfill before the water discharges into the stream.
- (S-2) The spring capture outfall located adjacent to the last of the series of sediment ponds is sampled to provide a representative sample for assessing the quality of the water originating from the spring capture system located beneath the fill area.
- (S-3) The stream is sampled at the landfill property boundary (approximately 600 feet below the last sediment pond) to assess the water quality of the stream below the waste disposal area. No sampling location is available upstream of the waste disposal area since the stream originates immediately below and adjacent to the disposal area.
- (S-4) The stream located below the Bolick site is sampled approximately 30 feet below the landfill property boundary to assess the water quality of the surface water below the Bolick site. This sampling location is chosen instead of the sediment pond located on the Bolick site to provide a sample that is more representative of the potential influence of groundwater from the soil aquifer.
- (S-5) A seep, located below the waste disposal area and directly above the sediment pond, was observed flowing during the first quarter background event (June 1994). This seep is sampled in addition to the four originally proposed surface water sampling locations.
- (S-6) An additional surface water monitoring point, located approximately 800 feet below the existing surface water monitoring point S-4, was added subsequent to the first semiannual sampling event (July 1995). This monitoring point is sampled to assess the persistence of surface water impacts observed at S-4 further downgradient along this drainage.

A reconnaissance of the landfill is conducted concurrent with the sampling event to document the presence or absence of leachate production. No leachate production has been observed during the sampling events since the initiation of monitoring in 1994. Leachate generated in the waste drains via the spring capture outfall (S-2) and groundwater flow paths.

1.3 Sampling and Analysis Schedule

1.3.1 Groundwater

During the first year of Assessment groundwater monitoring (1994-1995) four quarterly background sampling events were conducted on each groundwater monitoring well. Semiannual sampling is currently conducted. The most recent semiannual monitoring event was conducted on March 11-12, 2009. The groundwater Assessment monitoring schedule is outlined in Table 1.

Monitoring Parameters

The analytical scans performed on each monitoring well during the first year of assessment background monitoring were designed to analyze for all the target parameters detected and tentatively confirmed as a result of the initial comprehensive sampling event performed on the previously existing well network MW-1 through MW-7 (March 1993). The initial analytical list was comprised of the complete EPA Appendix II List of Hazardous Inorganic and Organic Parameters (40 CFR, Part 258) required for Assessment Monitoring under the NCDENR requirements for Municipal Solid Waste Landfills (15A NCAC 13B Section .1600). A summary results table of the initial March 1993 sampling event is contained in Appendix C of this report and the results are detailed in Sections II and III of the Assessment Plan (DAA, September 3, 1993).

The complete EPA Appendix II analysis was repeated on the network of core wells during the first semiannual event (July 1995). Additional parameters detected, and verified through Quality Assurance / Quality Control (QA/QC) validation procedures as being present, that were not identified in prior Assessment monitoring events, were added to the assessment target parameter list. Target parameters not detected during all five previous assessment monitoring program events, and verified through QA/QC validation procedures as not being present, were deleted from the assessment target parameter list. As required, amendments to the existing target parameter list were evaluated and approved by the NCDENR, prior to implementation. For amended target parameters, it was proposed that four independent samples be collected and analyzed for those additional parameters during the following four semiannual sampling events to establish background.

Revisions to the target inorganic parameter list involved adding four metal parameters (chromium, cobalt, nickel, and vanadium) and deleting two other metal parameters (cadmium and mercury). The presence of cadmium and mercury in the groundwater at the site was not supported by the analytical results of all four assessment background or the first semiannual monitoring events. Chromium, cobalt, nickel, and vanadium were observed in three or more wells, although also at levels far below EPA MCL and NC 2L groundwater standards (NCSs), as a result of the comprehensive EPA Appendix II analytical scan performed during the first semiannual event.

As a result of four successive assessment sampling events, all the assessment target metal parameters (including chromium, cobalt, nickel, and vanadium) were observed at levels far below EPA MCL and NCSs. Subsequent to the January 1998 Assessment monitoring event NCDENR approved completing target metal analysis annually rather than semiannually. Metals were analyzed on the March 2009 event.

Past target organic parameter list revisions involved deleting trans-1,3-dichloropropene. The analytical results of the four background monitoring events and the first semiannual assessment sampling event confirmed the absence of trans-1,3-dichloropropene in the groundwater and surface waters at the site. Thus, per the decision criteria outlined in the Assessment Plan, trans-1,3-dichloropropene was removed from the target parameter list. Due to repeated detection, five constituents (chlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, trans-1,2-dichloroethene, and 1,2-dichloropropane) were added to the target list in 2001.

As approved by NCDENR, monitoring of additional EPA Appendix II parameters that have not been confirmed in any of monitoring wells to date is no longer required.

Analytical Methods

During the first year of background Assessment Monitoring (1994-1995), analyses of the core wells utilized EPA Contract Laboratory Program – Statements of Work (CLP-SOW) for all four quarterly events. Organic analyses of the boundary wells alternated between CLP and Low Level Risk Assessment (LLRA) analytical methods for each quarterly event. Metal analyses of all monitoring wells utilized CLP methods on all events. Since completing the first year of quarterly background sampling (April 1995), the core wells have been monitored on a semiannual basis. The first semiannual assessment monitoring event analyzed for the EPA Appendix II List of Hazardous Inorganic and Organic Parameters (40 CFR Part 258), utilizing LLRA analytical methods for organic parameters and CLP analytical methods for metal parameters.

Monitoring continues to be conducted on a semiannual basis for the organic target parameters detected as a result of the complete EPA Appendix II analysis. Monitoring is conducted on an annual basis for the metal target parameters. Reevaluation of the site network and monitoring scheme is conducted after review of the results of each sampling event. The monitoring program continues to follow a two-tiered analytical approach utilizing both EPA CLP-SOW analytical methods and LLRA screening by EPA-SW846 analytical methods. The CLP-SOW are utilized to generate high-level quality data with documented QA/QC protocols. The LLRA methods (EPA-SW-846) are utilized for risk assessment screening to preliminarily identify low levels of parameters that may be present. The assessment monitoring schedule alternates between CLP and LLRA analytical methods for groundwater organic analyses each semiannual event. The analysis schedule provides an outline of analytical methodology designated for each event (Table 1).

Note that the assessment program has completed semiannual monitoring of natural attenuation indicator field parameters from February 2000 through 2009. The groundwater sampling

program for these geochemical and organic indicator parameters are discussed further at the conclusion of this report.

1.3.2 Surface Water

Surface water monitoring has been conducted on a semiannual basis since the initiation of the Assessment Plan monitoring program. The analytical scans that are performed on the surface water samples utilize CLP SOW and are designed to analyze for all target parameters detected as a result of the comprehensive Appendix II analysis. The surface water assessment monitoring schedule is also outlined in Table 1.

2.0 GROUNDWATER AND SURFACE WATER SAMPLING FIELD PROCEDURES

Groundwater and surface water samples were collected according to the Watauga County Landfill Groundwater and Surface Water Monitoring Plan (DAA, September 3, 1993). Field notes contained in Appendix B document sample collection procedures.

2.1 Well Purging and Sample Collection

Dedicated stainless steel and TEFLON electrical submersible pumps were permanently installed in the monitoring well network subsequent to the first Assessment event in 1994. Draper Aden Associates' environmental technicians used the dedicated pumps to purge and collect groundwater samples from the well network during the March 2009 sampling event. All non-dedicated equipment was decontaminated between sampling of each monitoring well.

A minimum of three well casing volumes of groundwater was removed from each monitoring well prior to sample collection. Well casing volumes were calculated from measurements of depth to water, and total well depth taken prior to purging. Stabilization of field analyses for pH and specific conductivity were used to verify that stagnant water within the well as removed during purging, and that groundwater representative of the near-aquifer was being sampled. Field notes summarize and document well purging calculations and results (Appendix B).

2.2 Field Meter Equipment and Calibration

Field measurements of pH, specific conductivity, oxidation/reduction potential (ORP), dissolved oxygen (DO) and temperature, were analyzed at each well by completing multiple measurements during purging utilizing a flow through cell.

A YSI model 650 pH/conductivity/ORP/DO/temperature meter was used for the field measurement of these parameters. The meter was calibrated in the field using laboratory-grade buffers for pH, and KCl solution for specific conductivity. Field notes contained in Appendix B document field pH and specific conductivity meter calibration methods for the sampling event.

2.3 Quality Control Blank Samples

Trip blanks were utilized as part of the assessment monitoring program. Trip blanks were prepared by the analyzing laboratory to accompany the sample kits at all times. The trip blanks employed sample containers and volumes identical in physical and chemical integrity to the samples used for actual sample collection. The trip blank was analyzed for all parameters included in the sampling event. The trip blank served as a control on sample kit preparation, analysis in the laboratory, and sample kit transportation.

Field blanks were not collected, due to the use of dedicated purging/sampling equipment.

2.4 Sample Containers and Shipment

Groundwater samples were collected in U.S. EPA approved containers prepared and supplied by the analyzing laboratory. Where applicable, the analyzing laboratory prepared organic sample containers with hydrochloric acid (HCl) prior to sample collection. Total metal samples were preserved in the field using nitric acid supplied by the analyzing laboratory. All samples were placed on ice in a cooler at approximately 4°C immediately after collection. A chain of custody seal was placed on each sample and each cooler to verify samples were not disturbed during transport. The coolers were shipped to the analyzing laboratory by overnight courier service.

2.5 Chain of Custody Documentation

Chain of Custody (COC) documentation and analysis requests are contained with the comprehensive laboratory report. Laboratory analytical data summary sheets are found in Appendix E. COC forms provided by the analyzing laboratory or developed by Draper Aden Associates were used to document the custody of the samples from the time they were collected in the field to the time the custody of the samples was relinquished by Draper Aden personnel. Relinquishing custody of the samples was accomplished by shipping through an overnight carrier service.

The information recorded in the COC included sampling location, sampling points, number of samples, type of sampling containers, sample preservation procedures, matrix spike samples, if any, blanks accompanying the samples, date and time of sample collection, and the date and time custody was relinquished. These COC forms were sent with the samples to the analyzing laboratory. Analysis request forms, with lists of required analytes for the different analytical methods to be used, were also attached along with the COC forms.

3.0. LABORATORY ANALYSIS

3.1 List of Laboratories

Lancaster Laboratories of Lancaster, Pennsylvania performed volatile organic analyses by EPA Method 524.2 on all private well samples.

CompuChem Environmental Corporation, a division of Liberty Analytical Corporation of Cary, North Carolina, performed inorganic analyses on all monitoring well samples and volatile organic analyses on all surface water samples by EPA CLP-SOW, and volatile organic analyses on all monitoring well samples by EPA SW-846 8260B (25 ml purge).

3.2 Analytical Methods

All CLP analytical techniques used were in accordance with the procedures listed in the CLP-SOW Organics OLMO4.3 and CLP-SOW Inorganics ICP Method ILM04.1.

All SW-846 analytical techniques used were in accordance with the procedures listed in the U.S. EPA document Test Methods for Evaluating Solid Waste - Physical/Chemical Methods, SW-846 (latest edition).

3.3 Data Quality Objectives

Quality Assurance Objectives for Measurements

Data quality objectives (DQO) are established to ensure that the data collected throughout is sufficient and of adequate quality for the intended use. Overall DQO included the following:

- Precision - A measurement of the reproducibility of measurements compared to their average value. Precision is measured by the use of splits, replicate samples, or co-located samples and field audit samples.
- Accuracy - This measures the bias in a measurement system by comparing a measured value to a true or standard value. Accuracy is measured by the use of standards, spiked samples, and field audit samples.
- Representativeness - This is the degree to which a sample represents the characteristic of the population being measured. Representativeness is controlled by defining sample collection protocols and adhering to them throughout the evaluation.
- Completeness - This is the ratio of validated data points to the total samples collected. Completeness is achieved through duplicate sampling and resampling, when necessary.
- Comparability - This is the confidence that one data set can be compared to another. Comparability is achieved through the use of standard methods to control the precision and accuracy of the data sets to be compared by use of field audit samples.

The CLP-SOWs are utilized to generate a high level quality data with documented QA/QC protocols. The SW-846 methods are utilized to generate organic data for risk assessment to preliminary identify low levels of analytes that may be present. Estimated CLP SOW results are similarly provided for preliminary assessment purposes only. Estimated data is not intended for use in determining regulatory compliance issues.

Internal Quality Control

- i. Field Quality Control** - Field QC procedures are summarized in Section 2.0.
- ii. Analytical Quality Control** - Analytical QC procedures for CLP analytical techniques are guided by adherence to CLP deliverables. All QC data and records generated by the laboratory were examined for adherence to method requirements by Draper Aden Associates. A laboratory QC report generally consists of the following components:

- spikes
- surrogate parameters
- chromatograms
- blanks
- instrument adjustment
- additional QC requirements (organic and inorganic)
- duplicates
- calibration
- raw data
- quantification

For this project, QC reports are provided with the target parameter analytical results for all sampling events.

4.0. DATA VALIDATION

The CLP analyses were performed in adherence to the relevant CLP-SOW. Results of the CLP-SOW analyses were summarized and reported by the analyzing laboratory in standard CLP reporting format. SW-846 analyses were performed in adherence to relevant SW-846 method requirements and guidance. Draper Aden Associates conducted data validation of each data set. The results from each sampling event were evaluated in association with corresponding QA/QC information provided by the analyzing laboratory.

4.1 Laboratory Reporting Qualifiers

Two different types of qualifiers were associated with laboratory analyses and data validation: **laboratory reporting qualifiers** and **data validation qualifiers**. The laboratory used **laboratory reporting qualifiers** to flag sample results with reference to relevant QA/QC criteria. Laboratory reporting qualifiers were unique to the analyzing laboratory and are defined in the laboratory data package. In addition to the laboratory reporting qualifiers, project specifications required the laboratory performing the analytical services to utilize the following additional data qualifiers and definitions:

Qualifiers

- D - Denotes the sample was diluted to obtain the result.
- S - Method of Standard Additions was utilized to obtain the result.
- E - Laboratory recoveries fell outside EPA control limits. Results are approximate.
- TI - The laboratory tentatively identified the parameter.

Definitions

- CRDL Contract Required Detection Limit (associated with CLP-inorganics only).
- IDL Instrument Detection Limit (Associated with CLP-inorganics only).
Inorganic Data qualified with a "U" refers to IDL.
- CRQL Contract Required Quantitation Limit (associated with CLP organics only).
Organic Data qualified with a "U", refer to CRQL.

4.2 Data Validation Qualifiers

Data validation was completed using guidance from the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", (Document 1) USEPA, February, 1993. Data Validation was performed on the results presented in the laboratory analysis report, and the validated results were flagged, where required, using the appropriate CLP data validation qualifiers. Definitions of the nationally recognized data validation qualifiers used by Draper Aden Associates in the validation process and for the reported results are presented below.

Organic Data Validation Qualifiers

- U - The parameter was analyzed for, but was not detected (the numerical value associated with the data validation qualifier is the reported sample LOQ for organics and the reported sample IDL for inorganics).
- J - The parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.
- N - The analysis indicates the presence of a parameter for which there is presumptive evidence to make a "tentative identification".
- NJ - The analysis indicates the presence of a parameter that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ - The parameter was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the parameter in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the parameter cannot be verified.

Inorganic Data Validation Qualifiers

- U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is the sample detection limit.
- J - The associated value is an estimated quantity.
- R - The data are unusable. (Note: Parameter may not be present)

UJ - The material was analyzed for, but was not detected. The associated result is an estimate and may be inaccurate or imprecise.

4.3 Organic Data Review

CLP Volatile Organic Data Review

Draper Aden Associates performed a limited manual review of the analytical results for sixteen target analytes which included benzene, chlorobenzene; 1,4-dichlorobenzene; chloroethane, dichlorodifluoromethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethylene; cis-1,2-dichloroethylene; trans-1,2-dichloroethylene; 1,2-dichloropropane, tetrachloroethylene; 1,1,1-trichloroethane, trichloroethylene, methylene chloride, vinyl chloride. The following information and attached table summarize the data validation results.

CompuChem performed the GC/MS analysis and submitted results to Draper Aden Associates in a final certificate of analysis, which included sample analytical results as well as relevant documentation to validate and verify the analytical results. The original certificate of analysis was received March 27, 2009.

The evaluation of CompuChem's compliance with the method was based on a limited review of the following items: QC deliverables package, case narrative, technical holding time and preservation requirements, instrument performance check, instrument calibrations, blank analysis, system monitoring recoveries, matrix spike/matrix spike duplicate (MS/MSD) analysis, internal standard requirements, laboratory control samples (LCS), and confirmation of detected analytes. Review of transcriptions from raw data to summary sheets was performed. Specific representative calculations were not performed except where noted. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met, except the samples were received in the laboratory at 1°C. The samples were not frozen and no data qualification was required.

The certificate of analysis presented data which were of acceptable quality. Holding time, preservation, BFB tuning, initial and continuing calibration, blank, system (surrogate) monitoring, MS/MSD, internal standard and LCS requirements were met, except where noted below. No transcription errors were noted. No deviations from specific QA/QC criteria were identified during the data review process.

Several target analytes were detected below the CRQL in sample S-2 and S-4. No other target analytes were detected in any sample. Results remain as reported by the laboratory.

SW-846 Volatile Organic Data Review

Draper Aden Associates performed a limited review of the analytical results for 62 volatile organic parameters analyzed according to USEPA SW-846 Method 8260B/5030B using a 25 ml purge volume. CompuChem performed the SW-846 analysis and submitted results to Draper Aden Associates in a final certificate of analysis, which included sample analytical results as well as relevant documentation to validate and verify the analytical results. . The laboratory revised the deliverables package to include the method detection limit study.

The evaluation of CompuChem's compliance with Method 8260B and validation of the results was based on a limited review of the following items: QC deliverables package, QC history documentation, case narrative, technical holding time and preservation requirements, instrument performance (tune) check, instrument calibrations, blank analysis, surrogate spike recoveries, matrix spike and MS/MSD analyses, LCS data, and internal standard requirements. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met, unless noted below.

The original certificate of analysis for Method 8260B was received on March 27, 2009. The final certificate of analysis was complete and no data was rejected. The data set demonstrated the laboratory's ability to achieve the reported limit of quantitation, as supported by the initial calibration data and laboratory method detection limit (MDL) study.

QC history documentation was provided. Instrument performance check (tuning) criteria, initial calibration, calibration verification, blanks, surrogates, MS/MSD, internal standard and LCS requirements were met, except where noted below. Deviations from specific QA/QC criteria that were identified during the data review process are summarized below.

Holding time requirements were met. Sample preservation criteria were met with the exception of acrolein. Acrolein analysis was performed on samples preserved at pH < 2 instead of pH 4-5 and all acrolein results were qualified as estimated.

Initial calibration criteria were met except for select analytes that exceeded initial calibration %RSD requirements. CompuChem presented the average %RSD for all target analytes (grand mean) present in the initial calibration standard to meet the <15% RSD criteria for a passing ICAL. Average response was utilized for quantitation. See attached table for sample results that were qualified as estimated due to the %RSD exceeding 15 and the use of the average response factor for quantitation. Continuing calibration verification criteria were met except for select analytes that exceeded the continuing calibration verification requirements (<25% RSD). See attached table for sample results that were qualified as estimated. The remaining calibration requirements were met.

Acetone was reported in the trip blank (2.7 µg/l) and in the method blanks (1.7-1.8 µg/l), methylene chloride was reported in the trip blank (0.54 µg/l) and in the method blanks (0.11-0.14 µg/l) and naphthalene was reported in the method blanks (0.15-0.22 µg/l). Detected results less than the LOQ or less than five times the blank contamination concentration for these three analytes were attributed to the laboratory contamination and validated as “U.” Detected results for these three analytes greater than the LOQ, but less than five times the blank contamination were qualified as “UA” to note that the LOQ was estimated due to this QC deficiency. For these sample results, the sample LOQ was adjusted to the sample concentration. This applied to all reported acetone results and MW-12 for methylene chloride.

Samples MW-2 and MW-12 required dilutions and re-analysis to obtain the reported sample result for 1,1,1-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane (MW-2) and cis-1,2-dichloroethene (MW-12). Results were correctly reported.

Target analytes detected at or above the method detection limit and/or analytical data that required a data validation qualifier due to quality control deviations noted above are summarized on the attached table. Except where attributed to laboratory contamination as noted above, target analytes reported by the laboratory as detected less than the corresponding LOQs are validated and qualified as “J” to note that the reported concentration should be considered estimated.

Target analytes detected greater than the LOQ remain as reported by the laboratory, unless noted. Except where noted above, other sample results were validated and reported as “U” to note the target analyte was analyzed for, but not detected at or above the LOQ. No results were rejected based on the data validation criteria.

4.4 Inorganic Data Review

CLP Inorganic Data Review

Draper Aden Associates performed a limited review of the analytical results for six inorganic target parameters: barium, chromium, cobalt, iron, nickel and vanadium analyzed per USEPA CLP ICP Method ILM04.1. CompuChem performed the CLP analysis and submitted results to Draper Aden Associates in a final certificate of analysis, which included sample analytical results as well as relevant documentation to validate and verify the analytical results.

CompuChem submitted results to Draper Aden Associates in a final certificate of analysis which included sample analytical results as well as relevant documentation to verify and validate the results. The results of this data validation presented here are based upon a review of QA/QC information including holding times, preservation procedures and standards, spike analysis on sample matrix, blank samples analyses (method, trip, and calibration blanks), duplicate sample analyses, interference check sample results, LCS, serial dilution criteria, IDL/CRDL information. Review was performed on all summary sheets provided by the laboratory, unless a notable discrepancy in the data package required additional review of the raw data. The completeness of

this data package was verified. The data package included raw analytical data, chain of custody and preparation logs.

The original certificate of analysis was received March 27, 2009. CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met.

The original certificate of analysis appeared complete in its presentation and the data were of acceptable quality. The certificate of analysis demonstrated the ability of the laboratory to achieve the reported CRDL for each target parameter. CRDLs were equal to or less than the respective USEPA MCL drinking water standard and North Carolina groundwater quality standards, where applicable.

QC documentation criteria were met. Instrument calibration and calibration verification criteria were met. CRDL standards, blank samples, interference check samples, pre-digestion spike and sample duplicate, laboratory control sample and serial dilution samples were analyzed as required and quality control criteria were met except where noted below. Deviations from specific control limits and QA/QC controls that were identified during the data review process are summarized below.

Reported blank contamination included chromium in the calibration verification blanks (0.7-1.0 µg/l) and in the laboratory preparation blank (0.8 µg/l), iron in a calibration verification blank (25.1 µg/l) and in the laboratory preparation blank (49.5 µg/l), and nickel reported in a calibration verification blank (0.9 µg/l) and in the laboratory preparation blank (0.8 µg/l). Detected results for chromium and nickel less than the CRDL were attributed to laboratory contamination and were qualified as "U." Detected results for iron greater than the CRDL, but less than five times the blank concentration were qualified as "UA" to note that the CRDL was estimated due to this QC deficiency. For these sample results, the sample QL was adjusted to the sample concentration. This applied to iron reported in MW-9.

Sample results greater than the CRDL and unaffected by the above data validation process were recorded as reported by the laboratory. Sample results reported between the IDL and CRDL were qualified as estimated and flagged "J."

5.0 DISCUSSION OF RESULTS

Tables 2A-B (Appendix A) provide a summary of the target analytical results obtained from the March 2009 sampling event. A review of concentration trends (Tables 5A-C) indicates significant decreases in target parameter concentrations have occurred in both the groundwater and surface water across the site since the remedial cap was installed in the fall of 1996. Target parameter delineation maps provided in the July 1999 and August 2002 event reports illustrated these decreases in terms of the site conceptual model.

Draper Aden Associates validated the results according to the discussion provided in Sections 3.0 and 4.0 of this report. Tables 2A-B list for each parameter, as applicable, an MCL established by the USEPA and NC 2L groundwater standard, the CRQL/LOQ, and the analytical method. Estimated analytical results are provided for preliminary assessment purpose only and are not intended for use in determining regulatory compliance issues.

5.1 Assessment Monitoring Results

Target Organic Parameters

The analytical results for the sixteen target organic parameters detected during the March 2009 Assessment sampling event are summarized in Tables 2A and 2B. Eleven core monitoring wells and five surface water locations were analyzed on this event. The results are individually discussed for each target parameter below.

Benzene. Benzene was detected above the LOQ at one well (MW-9) at a concentration of 2.9 µg/l, above the NC 2L standard of 1 µg/l. Note that benzene concentrations, historically detected above the EPA MCL at only one other monitoring well, MW-8, have been below the EPA MCL at MW-8 since 1997. In fact, benzene has not been detected at MW-8 since 2001.

Benzene was not detected in any of the surface water samples.

Chloroethane. The daughter product chloroethane was detected above the LOQ at three wells (MW-3, MW-9, and MW-12). All concentrations were less than 10 ug/l, several orders of magnitude below the NC 2L groundwater standard of 2800 µg/l. No EPA MCL has been established for chloroethane.

Chloroethane was detected at one surface water location (S-2), estimated at 6 µg/l, considerably below the NC 2B surface water standard of 860 µg/l.

Dichlorodifluoromethane. Dichlorodifluoromethane was not detected above the LOQ; estimated concentrations were reported at one well (MW-9) at 0.43J µg/l, several orders of magnitude below the NC 2L groundwater standard of 1400 µg/l. No EPA MCL has been established for dichlorodifluoromethane.

Dichlorodifluoromethane was not detected in any of the surface water samples.

1,1-Dichloroethane (1,1-DCA). The daughter product 1,1-DCA is the most commonly detected target parameter at the site. 1,1-DCA was detected above the LOQ at all core subset wells except MW-8. All 1,1-DCA concentrations were considerably below the NC 2L groundwater standard of 70 µg/l. No EPA MCL has been established for 1,1-DCA.

1,1-DCA was not detected in any of the surface water samples.

1,1-Dichloroethene (1,1-DCE). 1,1-DCE was detected above the LOQ at only one well (MW-2). The 1,1-DCE concentrations at MW-2 of 46 µg/l, exceeded the EPA MCL and NC 2L groundwater standard of 7 µg/l. 1,1-DCE concentrations at MW-11 and MW-12 were estimated below the LOQ of 0.5 µg/l. Note that after decreasing between 1994 and 2002, 1,1-DCE concentrations at MW-2 have fluctuated considerably, increasing significantly between 2002 and 2005, decreasing in 2006 and April 2007, increasing again in September 2007 and March 2008, then decreasing again in September 2008. In general, concentration trends for 1,1-DCE are decreasing.

1,1-DCE was not detected in any of the surface water samples.

cis-1,2-Dichloroethene (cis-1,2-DCE). The daughter product cis-1,2-DCE was detected above the LOQ at four wells (MW-3, MW-9, MW-12, and MW-17). All cis-1,2-DCE concentrations were below the EPA MCL and NC 2L groundwater standard of 70 µg/l.

Cis-1,2-DCE concentrations in the west drainage, historically detected above the EPA MCL and NC 2L groundwater standard, have decreased to levels below the MCL and NC Standard.

Cis-1,2-DCE detected at one surface water location (S-4), estimated at 9 µg/l, at a concentration several orders of magnitude below the NC 2B surface water standard of 13,000 µg/l.

Tetrachloroethene (PCE). PCE was detected above the LOQ at five wells (MW-2, MW-3, MW-9, MW-12, and MW-17). Concentrations did not exceed the EPA MCL for PCE of 5 µg/l, but were above the lower NC 2L groundwater standard of 0.7 µg/l at all five wells.

Note that PCE concentrations, historically detected above the EPA MCL, have decreased to levels below the EPA MCL.

PCE was not detected in any of the surface water samples.

Trichloroethene (TCE). TCE was detected above the LOQ at four wells (MW-3, MW-9, MW-12, and MW-17). Concentrations were above the EPA MCL for TCE of 5 µg/l, and the lower NC 2L groundwater standard of 2.8 µg/l, at one well (MW-12).

TCE was not detected in any of the surface water samples.

1,1,1-Trichloroethane (1,1,1-TCA). 1,1,1-TCA was detected at one well (MW-2). 1,1,1-TCA concentrations at MW-2 were equal to, but did not exceed, the EPA MCL and NC 2L groundwater standard (i.e., 200 µg/l). After steadily decreasing to levels below the EPA MCL at MW-2 between 1994 and 2002, 1,1,1-TCA concentrations at MW-2 have fluctuated considerably, increasing significantly between 2002 and 2005, decreasing in 2006 and April 2007, increasing again in September 2007 and March 2008, then decreasing again in September 2008 and in 2009.

1,1,1-TCA was not detected in any of the surface water samples.

Vinyl Chloride. Vinyl chloride was detected above the LOQ at two wells (MW-9 and MW-12). Concentrations were above the EPA MCL of 2 µg/l at MW-12 (2.9 µg/l), and above the lower NC 2L groundwater standard of 0.015 µg/l at MW-9 (1.7 µg/l). Estimated vinyl chloride concentrations were reported above the lower NC 2L groundwater standard at two additional wells (MW-2 and MW-3, at 0.19J µg/l and 0.14J µg/l, respectively).

Vinyl chloride was not detected in any of the surface water samples.

Chlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichloroethane, trans-1,2-Dichloroethene, 1,2-Dichloropropane, and Methylene Chloride. Five of the remaining six target parameters, as identified above (excluding methylene chloride), were detected at low concentrations in March 2009. All the concentrations of these remaining five target parameters were below 1 µg/l, except for 1,4-dichlorobenzene concentrations, which remained below 3 µg/l.

All of these five remaining target parameters were detected at MW-12. All, except 1,2-dichloroethane, were also detected at MW-9. 1,2-Dichloropropane and trans-1,2-dichloroethene were also detected at MW-3.

Chlorobenzene and trans-1,2-dichloroethene concentrations were below respective NC 2L groundwater standards and EPA MCLs. 1,4-Dichlorobenzene concentrations were considerably below the EPA MCL of 100 µg/l, but the concentration at MW-9 at 2.7 µg/l, respectively, was above the NC 2L groundwater standard of 1.4 µg/l. Concentrations at MW-12 were equal to the NC 2L groundwater standard at 1.4 µg/l. 1,2-Dichloroethane and 1,2-dichloropropane concentrations at MW-12 at 0.65 µg/l and 0.89 µg/l, were above the NC 2L groundwater standards of 0.38 µg/l and 0.51 µg/l, respectively. No EPA MCL has been established for 1,2-dichloroethane. 1,2-Dichloropropane concentrations were below the EPA MCL of 5 µg/l. Trans-1,2-dichloroethene concentrations were several orders of magnitude below the NC 2L groundwater standard and the EPA MCL of 100 µg/l.

Non-Target Organic Parameters

Three non-target parameters were detected; all at low concentrations considerably below NC 2L groundwater standards. Chloroform was detected at MW-12 at a low concentration of 0.65 µg/l. Chloromethane was detected at MW-2 and MW-3 at estimated concentrations of 0.28J µg/l and 0.18J µg/l, respectively, and trichlorofluoromethane was detected at MW-3 at an estimated concentration of 0.11J µg/l.

Target Inorganic Parameters

The analytical results for the six target metal parameters, barium, chromium, cobalt, iron, nickel, and vanadium, obtained from the March 2008 sampling event, are summarized in Table 2C and discussed below. Note that the inorganic analytical results are similar to the results obtained from the previous assessment events.

Barium and Iron. Barium and iron concentrations are similar to those observed as a result of previous assessment monitoring events. Barium and iron, both common naturally occurring parameters, have been detected at all monitoring wells as a result of the previous background Assessment monitoring events. Barium was detected at concentrations below the EPA MCL and NC 2L standard of 2,000 µg/l as a result of all previous Assessment background monitoring events. Concentrations of iron were above the secondary EPA MCL and NC 2L standard of 300 µg/l at four wells (MW-2, MW-3, MW-8, and MW-17). No primary EPA MCL or NC 2L standard exists for iron. Note that iron concentrations have generally declined with each successive inorganic monitoring event.

Chromium. Chromium was detected at MW-3 and MW-8 at concentrations below both the EPA MCL of 100 µg/l and NC 2L standard of 50 µg/l.

Cobalt, Nickel, and Vanadium. Cobalt, nickel, and vanadium were either not detected above the IDL, or detected at trace, estimated levels below the analytical quantitation limit, in all well samples.

5.2 Potable Well Sampling Results

The initial domestic and commercial use potable well sampling event was developed and conducted by Draper Aden Associates on March 5, 1993 at the direction of Watauga County and approval of State officials to protect public health and welfare. Between 1994 and 2000, the potable water well sampling and analysis program was jointly conducted by the Appalachian District Health Department (ADHD) and the NC State Laboratory of Public Health. Recent potable well sampling events between 2001 and 2008 have been conducted by Draper Aden Associates at the direction of Watauga County and oversight of State officials.

The objective of the potable well sampling and analysis program is to investigate and evaluate the potential influence and associated risks of the landfill on neighboring groundwater resources. Samples collected by the ADHD (prior to 2000) were analyzed for volatile organic compounds by the State Laboratory utilizing EPA Method 502.2. The State laboratory confirmed any detect via mass spectrometry. Samples collected by Draper Aden Associates (after 2000) were analyzed via GC/mass spectrometry utilizing EPA Method 524.2. The EPA Method 524.2 employs automatic confirmation. Potable water well locations with accompanying sampled well reference number can be found on the Site Map (Figure 1). A summary of the analytical results of the potable well testing program collected to date are presented in Appendix D.

The analytical results obtained in 1993 and 1994 indicated organic constituents at concentrations above health-based standards at two of forty-five sampled potable wells neighboring the landfill. These two wells, the Carroll residence well (well reference no. 12) and the Nissan-Mazda Dealership well (well reference no. 4), were replaced by connections to the Town of Boone's public water system in 1995.

To date, sixty-one wells neighboring the landfill have been sampled. At this time, the cause or source of all the organics detected in the potable well sampling program cannot be determined. It should be noted that eight of twenty-one compounds that were detected in the Carroll residence well in 1993 have not been detected in the landfill monitoring well network. The differences in parameter "fingerprints" in groundwater beneath these sites compared to "fingerprints" for landfill wells tends to indicate potential impacts resulting from activities specifically undertaken on these sites and/or immediately around the private well heads and/or components of the well systems.

Between 1995 and 1999, concentrations of target organics in wells located south of the southern saddle steadily diminished to non-detect levels. Despite the absence of target organics in the potable wells located south of the southern saddle, the County and the Town provided public water to nine residences located south of the southern saddle in 2000. Trace levels of target organic compounds were previously detected in the wells serving these residences. The subject wells include well reference numbers 11, 12, 14, 24, 20 and 33. Five residences were located on Green Briar Rd, and four residences were located on Grapevine Circle. Three additional residences constructed in the immediate vicinity of area served by the public water line, and one additional residence that initially declined connection (abandoned well reference no. 24), are connected to public water. Wells that have been replaced with connections to public water are noted on Figure 1. Connections to public water are also indicated on the summary tables (Appendix D).

Eighteen private wells located south of the southern saddle, outside the area current served by public water, were sampled during the September 2008 Assessment Monitoring event. No landfill related constituents were detected. Ten residential wells located south of the southern saddle were sampled in March 2005. Although a suspected laboratory contaminant (methylene chloride) was detected at one well at an estimated concentration equal to the detection limit of 0.5 µg/l, no other constituents were detected. This well, located at 142 Green Briar Lane (well reference no. 21), was resampled in October 2005 and September 2008, and no constituents were detected. The residence at 142 Green Briar Lane, only seasonally occupied, was not sampled in 2006 and 2007. The property was unoccupied and for sale in 2008 and in March 2009, the property custodian has requested that the County not include the residence at 142 Green Briar Lane in the semiannual sampling events.

As noted above, trace organic levels detected in wells located south of the southern saddle in 1992 and 1993, have diminished to non-detect levels. Between June 1997 and May 2001, trace organic levels, below the minimum detection limit, were only detected in one well located south of the saddle, well reference no. 24. Since 2001, only three trihalomethanes (chloroform, bromodichloromethane and dibromochloromethane) were detected at well reference no. 24, in

February and August of 2002, these compounds were not detected in January or July of 2003, or March 2004. Trihalomethanes have not been detected in the groundwater monitoring wells surrounding the landfill and are a known byproduct of well chlorination. Chloroform, in particular, is frequently detected in chlorinated residential wells. The residence at well reference no. 24 initially declined to be connected to public water and was unoccupied for several years until ownership recently changed. The residence at well reference no. 24 was connected to public water and the pump was pulled from the well.

The March 2009 sampling results are comparable to previous results and concentration trends. Review of the analytical results from all the potable well sampling conducted previous to 2001 was performed by the NC Department of Epidemiology. The reviews indicated that the sampled residential well waters are acceptable for all uses due to non-detection of organic analytes. Individual analytical results obtained in March 2009 are discussed below.

March 2009 Sampling

Draper Aden Associates sampled the following two business wells (one no longer in-use) and five residential wells (two potable use and three non-potable use) on March 12, 2009.

2239 Hwy 421 South (well reference no. 1) potable use
2347 Hwy 421 South (well reference no. 2) non-potable use only
BREMCO, 2491 Hwy 421 South (well reference no. 5) no longer in-use
Hollar and Greene Produce, 230 Cabbage Row (well reference no.6)
2711 Hwy 421 South (well reference no. 15) non-potable use only
2737 Hwy 421 South (well reference no. 16) non-potable use only
142 Green Briar Lane (well reference no. 21) potable use

The well samples were analyzed for 59 organic constituents via EPA Method 524.2, by Lancaster Laboratories of Lancaster, Pennsylvania, a NC state-certified lab for Method 524.2.

No organic constituents were detected in the two potable use wells or the non-potable use well at 2711 Hwy 421S . Trace concentrations were detected at less than 1.0 µg/l (0.5µg/l) for one constituent (cis-1,2-DCE) at the non-potable use well at 2737 Hwy 421S.

After using bottled water since 1993, BREMCO was connected to public water in 2003. The County arranged for approval for hookup of BREMCO without Town annexation and assisted with installation of the BREMCO connection. BREMCO, located at 2491 Hwy 421 S, and the residences at 2347 and 2737 Hwy 421 S, were connected to public water in 2003 and 2004. The County covered availability fees, tap on fees, and the connection costs associated with the private residences. In order to complete the connection to the residence at 2711 Hwy 421 S, the County also completed a survey and arranged purchase of an easement across the property at 2737 Hwy 421 S. Several years later, the residence at 2737 also agreed to be connected. The wells at 2711 and 2737 Hwy 421 S have been sampled semiannually since August 2001, after the detection of

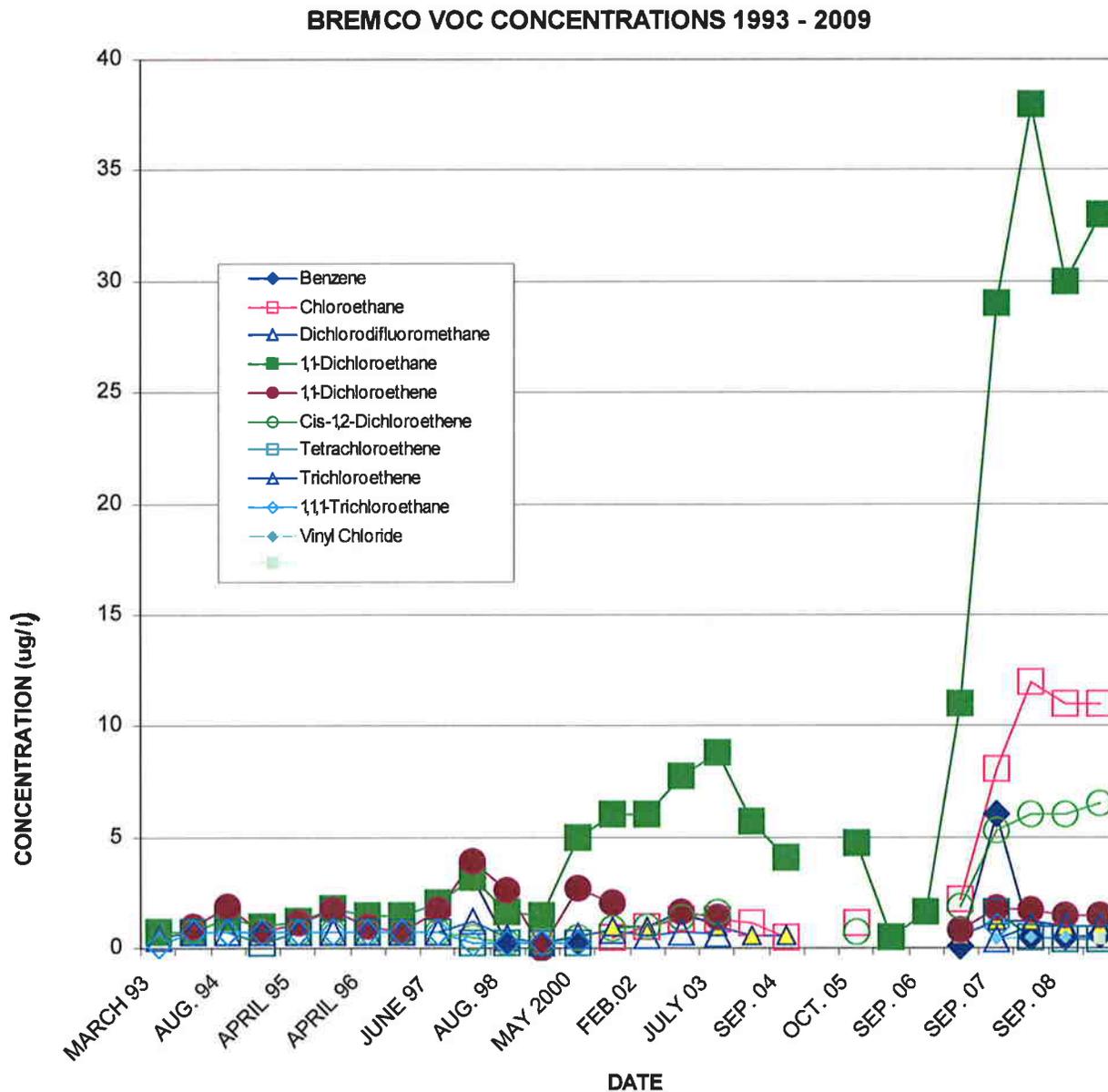
tetrachloroethene at less than 1.0 µg/l in February 2001; tetrachloroethene has not been detected since.

The well at 2347 Hwy 421 S (well reference no. 2) was not sampled between 2004 and 2006, after the residence was connected to public water. The former residential well is currently used infrequently to water horses. The well was sampled on both semiannual 2007 monitoring events, as well in September 2008 and March 2009. Six organic constituents were detected in September 2008 and April and September 2007 (chloroethane, 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-DCE, and dichlorodifluoromethane) . Five of these six constituents were detected in March 2009 (excluding 1,1-DCE). 1,1-DCA was detected at 4.2 µg/l in March. The other three constituents (chloroethane, cis-1,2-DCE, and dichlorodifluoromethane) were at low concentrations below 1.0 µg/l. Toluene and vinyl chloride were detected at 1.0 µg/l and 0.1 µg/l, respectively. All concentrations were below applicable EPA MCL drinking water standards, and all concentrations, except the estimated vinyl chloride concentrations, were below applicable NC 2L groundwater standards. The NC 2L for vinyl chloride, at 0.015 ug/l, is considerably below the analytical detection limit; therefore, any detection is above the standard.

After BREMCO was connected to public water in 2003, the pump was pulled. The well continued to be sampled via bailers, although purging several bore volumes of the 400+ ft of water column residing in the well was not feasible. Geophysical and video logging, and straddle packer sampling of the BREMCO well completed in 1998 indicated that a majority of the flow into the well is produced at two distinct intervals at approximately 245 feet and 325 feet in depth, and that routine semiannual sampling completed by the Appalachian Health Department was producing comparable results. Since the BREMCO well has not been used for several years, sampling technicians employed a HydraSleeve™ designed for discrete interval sampling beginning in September 2007, in an attempt to sample fresh water coming in at the 245 and 325 ft intervals discussed above. After four semiannual events, the discrete interval sampling has consistently resulted in more detected constituents and higher concentrations than those obtained either with the BREMCO pump or bailers.

As indicated by the following concentration graph, organic concentrations in the BREMCO well are less than 2 µg/l for most of the detected constituents. Only 1,1-DCA, chloroethane, and cis-1,2-DCE concentrations range higher. In March 2009, eight organic constituents were detected at or above the analytical quantitation limit (0.5 µg/l). 1,1-DCA was detected at 30 µg/l; chloroethane and cis-1,2-DCE were detected at 11 µg/l and 6 µg/l, respectively. Methylene chloride and 1,1-DCE were detected at 1.4 µg/l and 1.5 µg/l, respectively; dichlorodifluoromethane was detected at 1.0 µg/l; and 1,4-dichlorobenzene and trichloroethene were both detected at 1.3 µg/l and 1.0 µg/l, respectively ; and benzene and vinyl chloride were both detected at 0.5 µg/l. Seven other organic constituents were detected at less than 0.5 µg/l (benzene, chlorobenzene, 1,2-dichloroethane, 1,2-dichloropropane, tetrachloroethene, trans-1,2-DCE, and vinyl chloride). All concentrations were below applicable EPA MCL drinking water standards, and all concentrations, except the estimated vinyl chloride concentrations, were below applicable NC 2L groundwater standards. The NC 2L for vinyl

chloride, at 0.015 ug/l, is considerably below the analytical detection limit; therefore, any detection is above the standard.



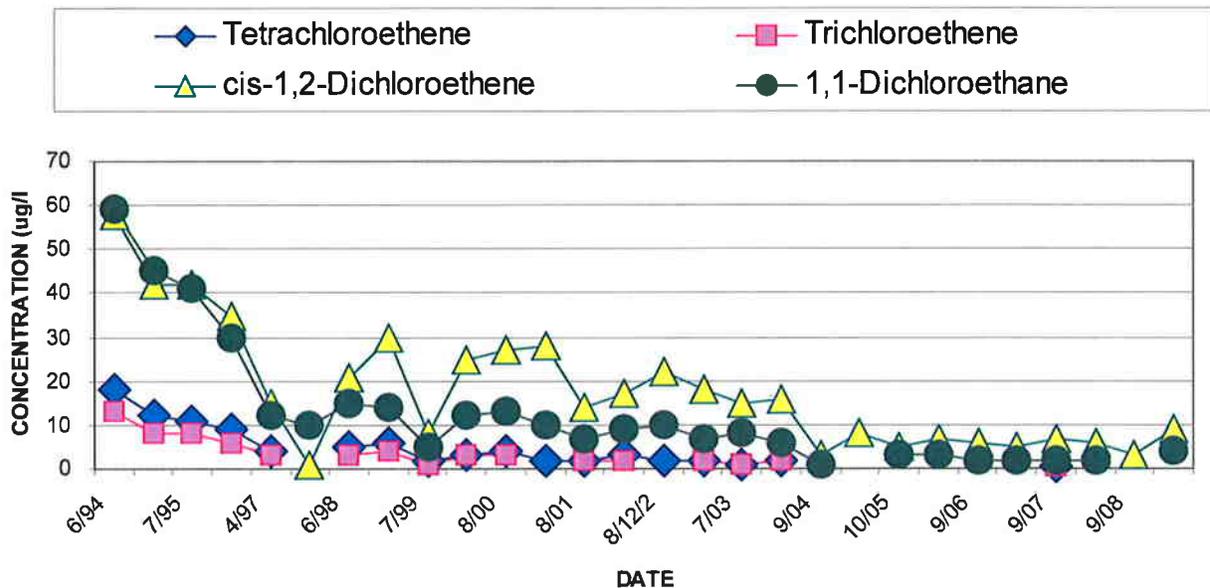
5.3 Distribution Trend Evaluation

Monitoring results indicate significant reductions in the extent and concentration of impact have occurred across the site. Although the northern edge of the occurrence of assessment target constituents in the groundwater continues to primarily exist within the right-of-way for the Route 421 bypass, reductions of concentrations and extent are observed to the south. South of the bypass, the detection of assessment target constituents continues to be concentrated between the saddle, located between the landfill and the Rocky Mountain Heights Subdivision, and the west and north drainages below the landfill.

West Drainage - In March 2009, fourteen target constituents (no dichlorodifluoromethane or 1,1,1,-TCA) were detected in the west drainage; all thirteen were detected at MW-11 and MW-12, eight at MW-3; five at MW-17; and four at MW-8. Vinyl chloride was detected above the EPA MCL at MW-11 and MW-12. PCE was detected above the NC 2L standard of 0.7 µg/l at MW-3, MW-11, MW-12, and MW-17. TCE was detected above the NC 2L standard of 2.8 µg/l at MW-3 and MW-12.

Historically, four constituents are typically detected at the west drainage surface water sampling point S-4 (PCE, TCE, cis-1,2-DCE and 1,1-DCA). No organic parameters are detected at location S-6, located approximately 800 feet downstream from S-2. Prior to 2004, these four organic constituents were consistently detected at S-4. Except for one event in 2007, PCE and TCE have not been detected at S-4 since 2004. As indicated in the following concentration graph, cis-1,2-DCE and 1,1-DCA concentrations have decreased significantly since 1994.

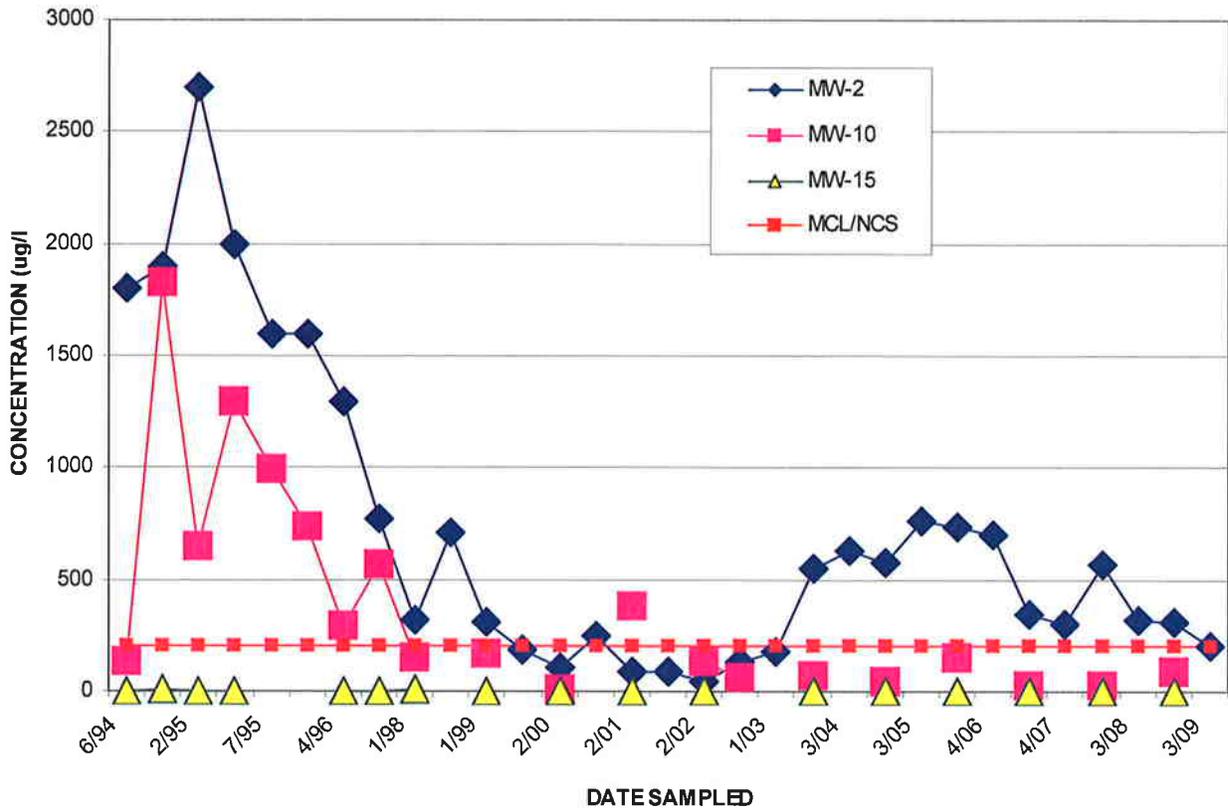
S-4 VOC CONCENTRATIONS 1994-2009



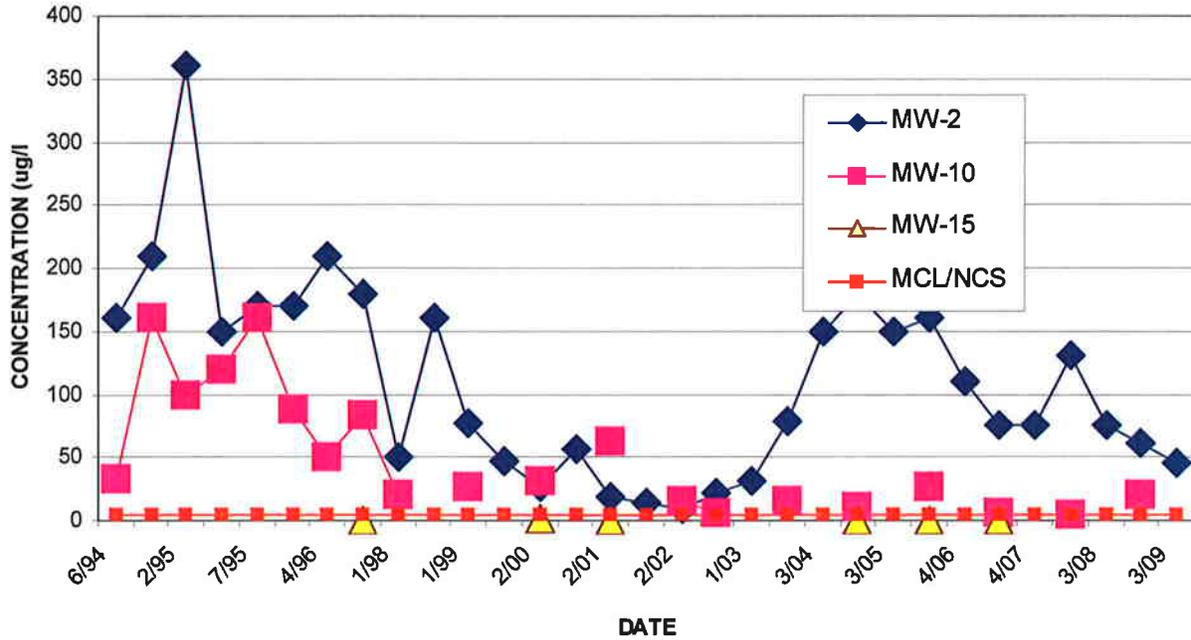
North Drainage - In the north drainage, the detection of organic constituents is confined to the bedrock aquifer. Historically, a total of four organic constituents (1,1-DCA, 1,1-DCE, 1,1,1-TCA and PCE) are typically detected in the north drainage at bedrock wells MW-2 and MW-10. These same four constituents were detected at MW-2 in March 2009.

Elevated concentrations of 1,1-DCE and 1,1,1-TCA historically observed at MW-2 indicate preferential migration to deeper fracture zones within the bedrock in the north drainage. The concentration of three constituents, 1,1-DCE, 1,1,1-TCA and PCE, historically exceeded their respective EPA MCLs in both MW-2 and MW-10. As noted by the following concentration trend graphs, between 1998 and 2000, the concentrations of 1,1,1-TCA and PCE decreased to levels below their respective EPA MCLs in the north drainage. Note that after steadily decreasing from 1995 to 2002, 1,1-DCE and 1,1,1-TCA concentrations increased in 2004 and 2005. 1,1-DCE and 1,1,1-TCA have been above the EPA MCL at MW-2 since 2004. PCE was also estimated at concentrations above the EPA MCL at MW-2 in September 2007.

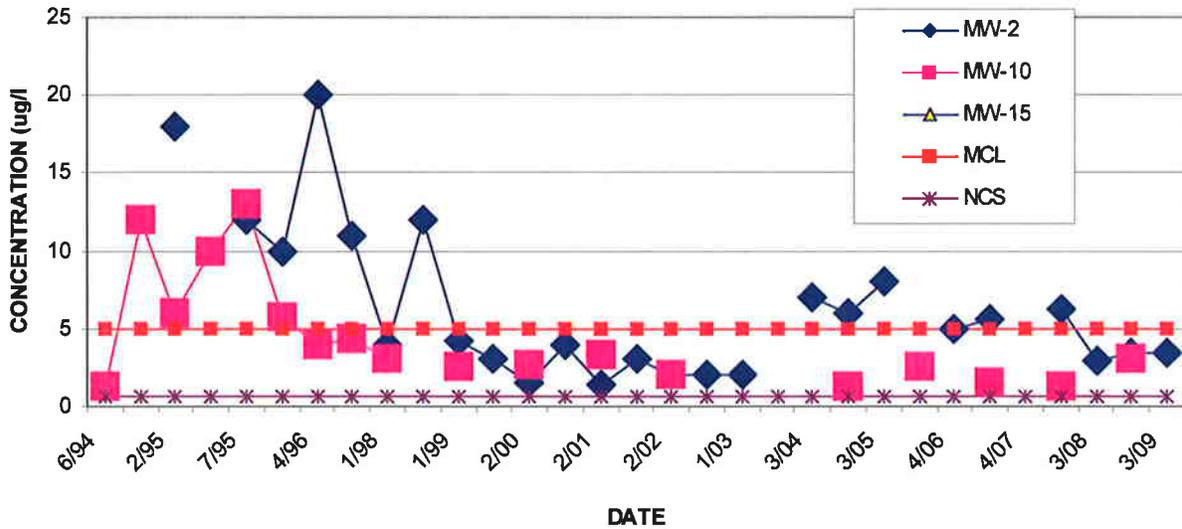
**1,1,1-TRICHLOROETHANE CONCENTRATIONS
NORTH DRAINAGE
1994-2009**



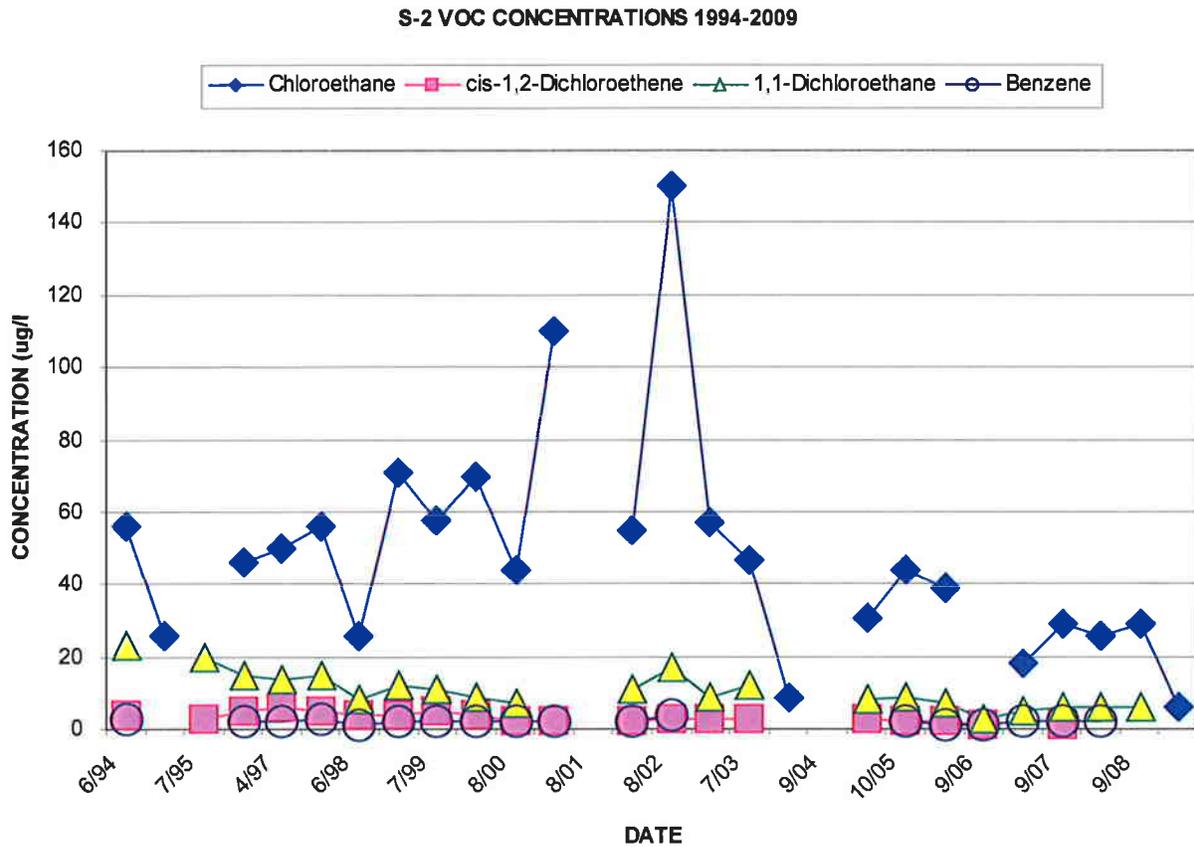
**1,1-DICHLOROETHENE CONCENTRATIONS
NORTH DRAINAGE
1994-2009**



**TETRACHLOROETHENE CONCENTRATIONS
NORTH DRAINAGE
1994-2009**



The following graph illustrates the concentrations of four organic constituents detected at the landfill spring capture outfall, S-2, located in the north drainage, since 1994.



Historically, four or five target organic constituents were typically detected at the landfill spring capture outfall, S-2, located in the north drainage. No organic parameters are detected at location S-3, located approximately 600 feet downstream from S-2. The concentrations are both currently and historically below NC surface water quality standards.

Downgradient of the northern drainage, groundwater within the bedrock aquifer system flows into the central Rocky Branch watershed aquifer and is apparently significantly diluted. The low-level detection of 1,1,1-TCA at MW-15 indicates that groundwater flow continues to follow the northern drainage orientation before reaching the apex of the watershed at Rocky Branch. 1,1-TCA was detected at 0.93 µg/l at MW-15 in March 2009.

Southern Saddle - Several organic compounds detected in MW-9, located along the southern saddle between the landfill and the Rocky Mountain Heights subdivision, particularly methylene chloride, have been historically observed at markedly different concentrations than the levels of the organic compounds detected in the remainder of the monitoring well network. In 1993, the abandoned Carroll residence well (reference no. 12), located approximately 100 feet from MW-9, was impacted by many of the same organic compounds. It should be noted that eight (8) of

twenty-one (21) compounds detected in the Carroll residence well in 1993 were not detected in the landfill monitoring well network (including MW-9). The cause or source of the organics detected in the Carroll well was not established, although differences in the constituents detected in the Carroll well compared to other landfill wells (including MW-9) indicates impact resulting from a source other than the landfill.

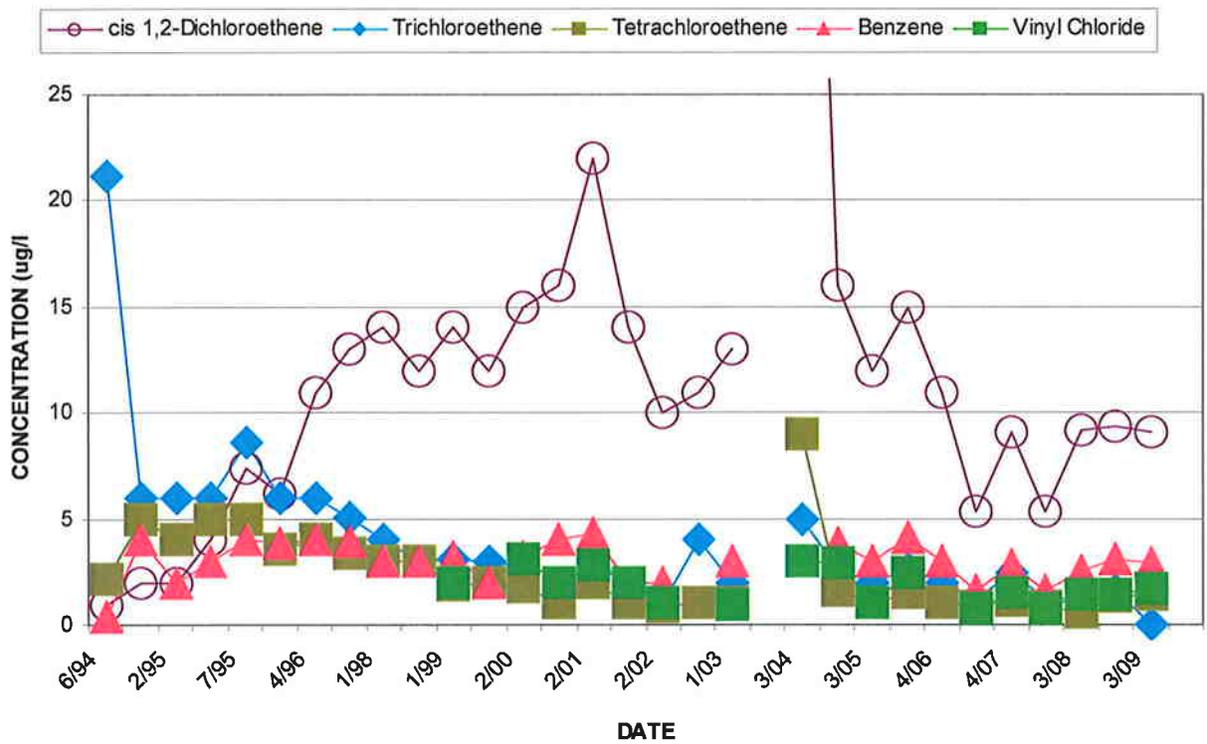
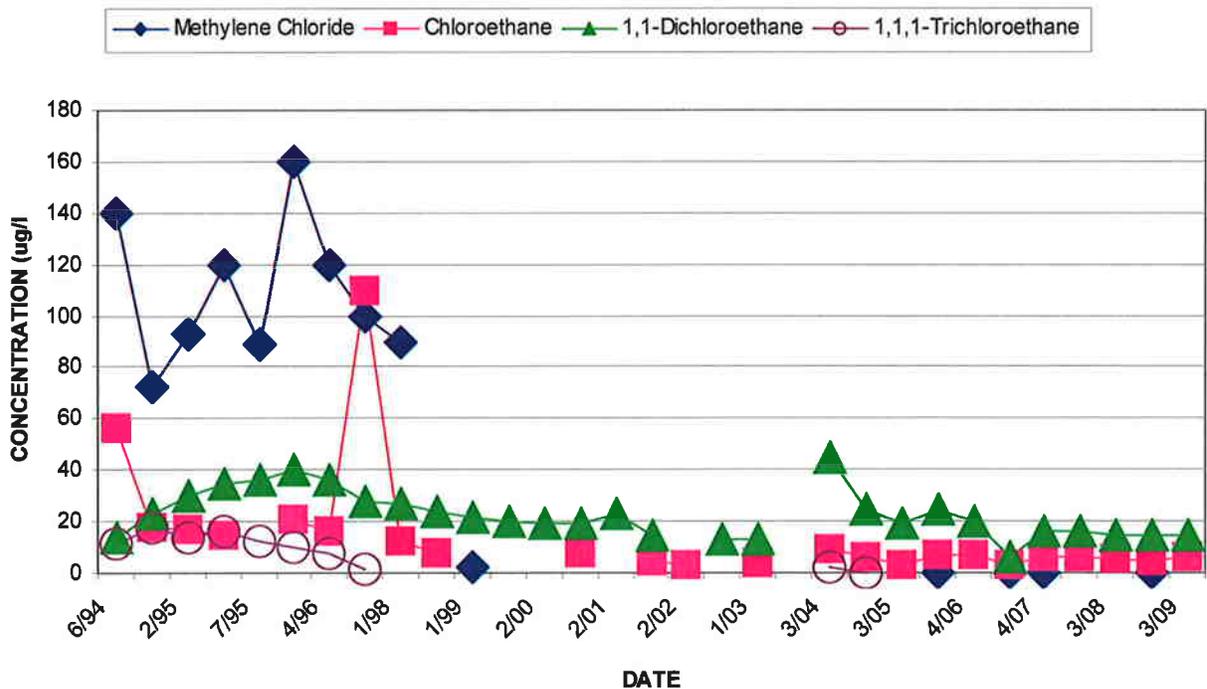
Trace levels of the same organic constituents detected in both the Carroll well and the landfill monitoring well network have also been previously detected in several other potable wells located south of the saddle. The frequency of detection of these trace levels has declined significantly between 1993 and 1999. Since June 1997, landfill related trace organic levels have only been detected in one well located south of the saddle (well reference no. 24). Only trace levels of the daughter product 1,1-DCA have been detected in well reference no. 24 since 1998, on only two of nine events, in 1999 and 2001. No landfill related trace organic levels have been detected in well reference no. 24 on six semiannual sampling events conducted since 2001. The residence at well reference no. 24, unoccupied between 2005 and 2007; was re-occupied and connected to public water in 2008.

In addition to the eighteen residential wells located south of the southern saddle sampled in September 2008, ten residential wells, located just outside the area current served by public water, were sampled in March 2005. As discussed further below, although a suspected laboratory contaminant (methylene chloride) was detected at one well (well ref. no. 21) at an estimated concentration equal to the detection limit of 0.5 µg/l, no other constituents were detected in any well located south of the southern saddle. Well reference no. 21, currently not occupied, was re-sampled in October 2005 and September 2008, and no organic constituents were detected.

As indicated by the following graphs, concentrations of target organic constituents have generally experienced declines at MW-9. Methylene chloride and TCE concentrations, which historically exceeded their respective EPA MCLs at MW-9, have decreased to levels below their respective EPA MCLs since 1998. Prior to the April 2006 and 2007 detections (below 1.0 µg/l), methylene chloride was last detected at MW-9 in January 1999. 1,1-dichloroethene was last detected at a concentration equal to the EPA MCL and NC 2L groundwater standard of 7 µg/l in August 2002, and tetrachloroethene and vinyl chloride were last detected above respective NC 2L groundwater standard of 0.7 and 0.015 µg/l in September 2004.

Although no organic constituents were detected at MW-9 in July 2003, the concentrations of several organic constituents (1,1-DCA, cis-1,2-DCE, and PCE) were at the highest levels recorded at MW-9 in March 2004. Three constituents (PCE, TCE, and VC) were at or above the EPA MCL and/or NC 2L groundwater standard. In October 2005, only VC was above the EPA MCL, and benzene and PCE were above the NCS, at MW-9. In April 2006, April 2007, September 2007, and September 2007, although no constituents were above the EPA MCL at MW-9, four constituents (benzene, 1,4-dichlorobenzene, PCE, and VC) were above the NCS. In September 2006, three constituents (benzene, PCE, and VC) were above the NC standard, and in September 2008, two constituents (benzene and VC) were above the NC standard.

MW-9 VOC CONCENTRATIONS 1994-2009



5.4 MNA Implementation

Site-specific sampling provides historical data for indirect evidence of the natural attenuation processes at the site and the rate of reduction of impact. Although NC 2L groundwater protection standards continue to be exceeded at the site, the site conceptual model supports that contention that natural attenuation processes are successfully reducing the concentration, extent, and total mass of impact.

When compelling evidence has been presented to warrant selection of MNA as component of the remedial response, performance monitoring is initiated. MNA performance monitoring should evaluate the following:

- Physical and chemical changes in aquifer conditions,
- Physical changes in plume characteristics, and
- Chemical changes in the plume.

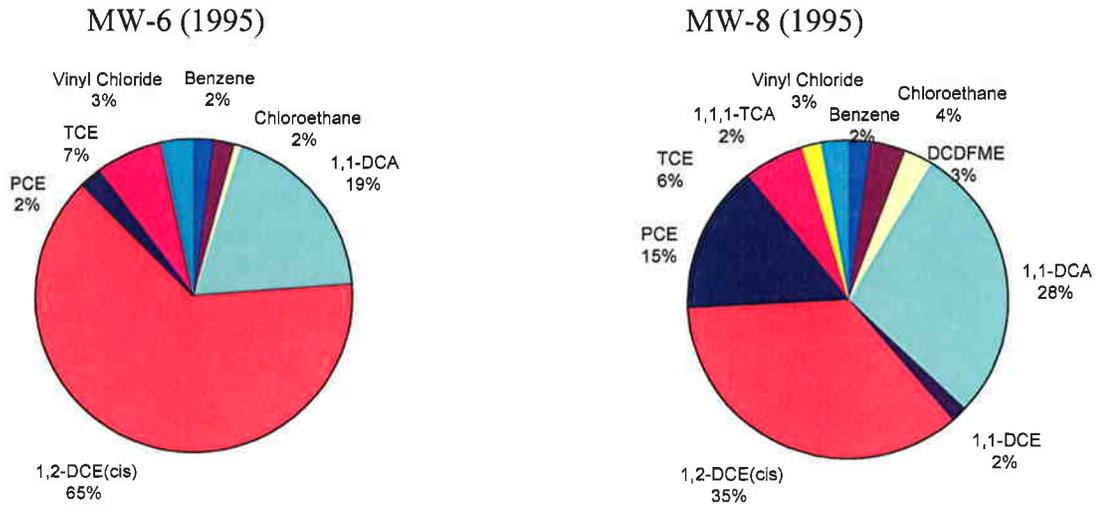
The performance monitoring network at Watauga County Landfill currently consists of sixteen monitoring wells screened at various select points of the impacted portion of the aquifer as well as upgradient, sidegradient, and downgradient of impacted groundwater. Three additional monitoring wells have been abandoned. The semiannual monitoring program, initiated in 1994, has demonstrated a capability for evaluating these physical and chemical aquifer and plume characteristics. The potable well monitoring program, involving greater than 50 private wells in the vicinity of the site to date, provides additional performance monitoring capabilities. The current semiannual monitoring program at the site should continue to enable the evaluation of these physical and chemical changes.

The collection of performance monitoring data will enable a determination of efficacy of the MNA remedial option. As demonstrated by the following evaluations of relative concentration trends and plume stability and behavior, ongoing monitoring confirms that constituent concentrations continue to trend as expected.

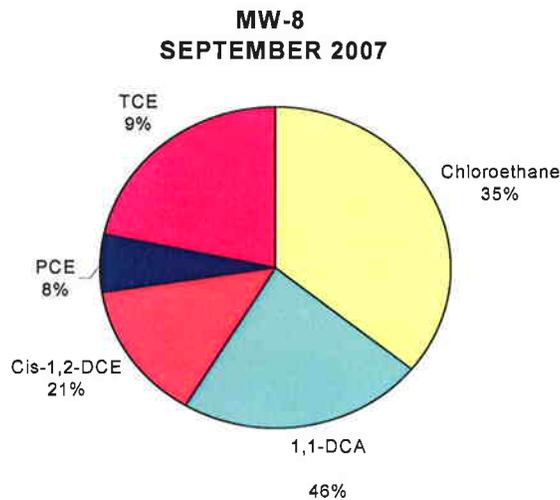
5.5 Relative Concentration Trend Evaluation

The comparisons of relative concentrations over time demonstrate the role of reductive reactions in the natural attenuation processes active across the site. PCE and TCE are common industrial solvents; 1,1-DCA and cis-1,2-DCE are not. When 1,1-DCA and cis-1,2-DCE are detected in groundwater, they are typically generated from the breakdown of PCE and TCE. Often this degradation process begins prior to placement of the solvent source. The reduction of PCE and TCE is a major factor in the shift in relative concentrations at the site to cis-1,2-DCE and 1,1-DCA. Although cis-1,2-DCE can be reduced to vinyl chloride in sulfate-reducing and methanogenic conditions, these reactions are much slower than the preceding reduction of TCE to cis-1,2-DCE. Note that further degradation can also be promoted via aerobic oxidation by cometabolism and therefore is favored in an aerobic zone.

The following relative concentration pie charts presentation was adapted from the SCR Update, dated January 2000. The pie charts illustrate the shift from parent to daughter products, as well as the shift from ethenes to ethanes, that has occurred in the west drainage since 1995. As shown below by the 1995 relative concentration pie charts for MW-6 and MW-8, the ethenes (PCE, TCE, 1,2-DCE) predominated in the upper portion of the west drainage prior to closure.

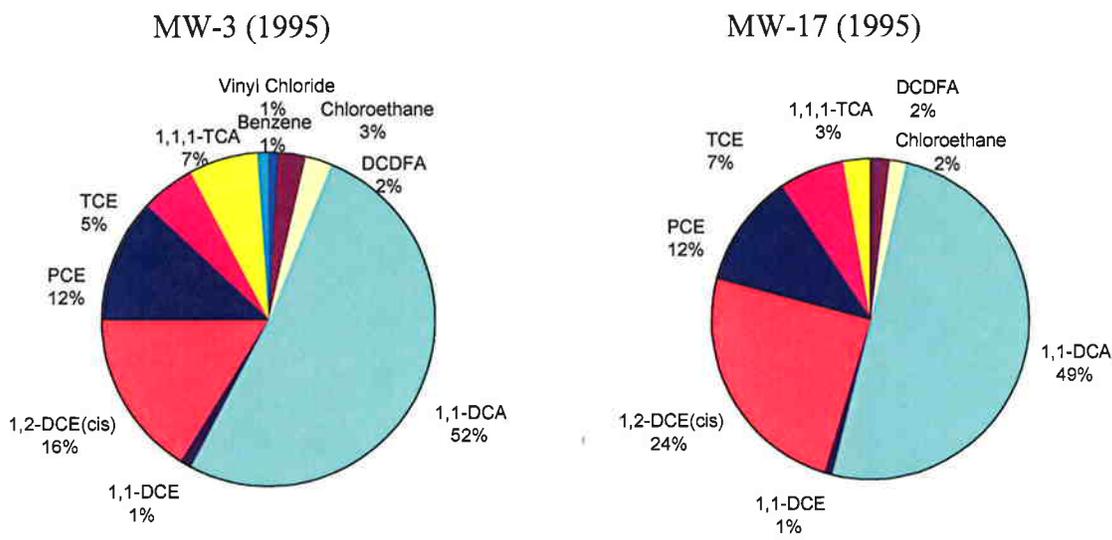


As shown below, the chlorinated ethanes, 1,1-DCA and chloroethane, were predominant in September 2007. This shift from ethenes to ethanes illustrates the role of reductive reactions in the natural attenuation processes active in the area adjacent to the waste. No constituents were detected above 0.5 µg/l in 2008 and 2009.

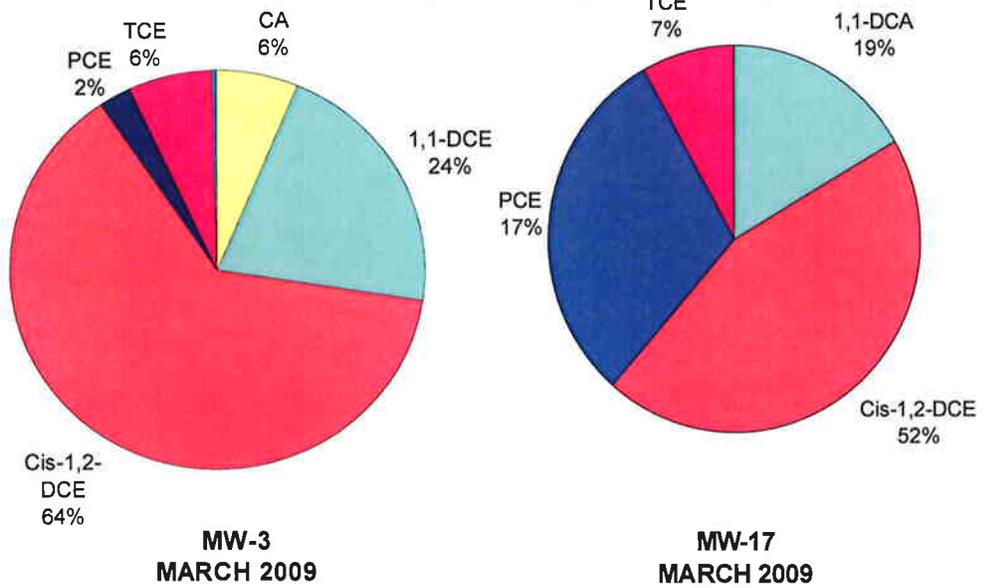


Of course, significant decreases in total organic detections and concentrations have also occurred across the site, as illustrated in the graphs in Section 5.6. In fact, only one organic constituent was detected at MW-8 in September 2008, estimated below 0.5 µg/l.

As shown below by the 1995 relative concentration pie charts for MW-3 and MW-17, 1,1-DCA was prevalent downgradient along the west drainage in 1995. Note that the ethenes continued to persist in this area along the property boundary.



As shown below by the relative concentration pie charts for MW-3 and MW-17 in March 2009, a shift in relative concentrations from 1,1-DCA to cis-1,2-DCE has occurred



since 1995. A primary daughter product of the anaerobic degradation of the more highly chlorinated ethenes is cis-1,2-DCE. The increased presence of cis-1,2-DCE is the result of reductive processes naturally attenuating the organic parameters at this location. Note that although the shift in relative concentrations from 1,1-DCA to cis-1,2-DCE suggests that the system at this location is not degrading cis-1,2-DCE as efficiently, significant decreases in the concentrations both ethenes and ethanes are observed across the site, including this location.

Dechlorination is more rapid for highly chlorinated compounds than for compounds that are less chlorinated. The accumulation of cis-1,2-DCE may be attributed to the slower rates of DCE halorespiration when compared with TCE or PCE. Although many researchers have commented that reductive chlorination will result in the accumulation of vinyl chloride, at many sites, including the subject site, vinyl chloride accumulation is much lower than cis-1,2-DCE. This may occur because the vinyl chloride can migrate to zones that support direct oxidation of vinyl chloride, either aerobically and/or anaerobically (Wiedemeier et al., 1999).

1,1,1-TCA, which occurred at elevated concentrations in the north drainage in 1996, also appears to have been reduced by anaerobic degradation. Under anaerobic conditions, 1,1,1-TCA is known to degrade abiotically to 1,1-DCE and biotically to 1,1-DCA (EPA, 1992). 1,1,1-TCA is transformed to 1,1-DCE via dehydrohalogenation, 1,1 DCE is then reductively dehalogenated to vinyl chloride. The vinyl chloride is then either reductively dehalogenated to ethene or consumed as a substrate in an aerobic reaction and converted to carbon dioxide.

Both abiotic and biotic anaerobic reduction mechanisms appear to be contributing to the 1,1-DCE and 1,1-DCA currently found in the north drainage. 1,1-DCA appears to be the most widespread solid waste constituent at the site. Although not determined to be a health hazard, 1,1-DCA is reported as a fairly recalcitrant compound, with a low degradation rate in an anaerobic zone and an even lower degradation rate in an aerobic zone. This persistence contributes to the prevalence of 1,1-DCA at the site.

The indicator data currently being collected will further investigate the role of these natural attenuation reactions within various locations of the aquifer system. Although the ongoing collection of data should continue to demonstrate the natural attenuation processes active across the site, the collection of data relating to redox conditions will assist further characterization of the aerobic/anaerobic systems existing at the site. Information concerning other factors that may also limit degradation, including nutrient limitations, substrate availability, toxicity, pH, etc. can also assist in characterizing the state of the aerobic/anaerobic systems existing at the site.

5.6 Site Conceptual Model Refinement

MNA guidance recommends that parent and daughter product contour maps and cross-sections be prepared to allow interpretation of the data and the distribution and relative transport and degradation rates of constituents in the subsurface. Site Conceptual Model Updates provided in 2000 and 2002, presented both the past and current extent of parent and daughter products.

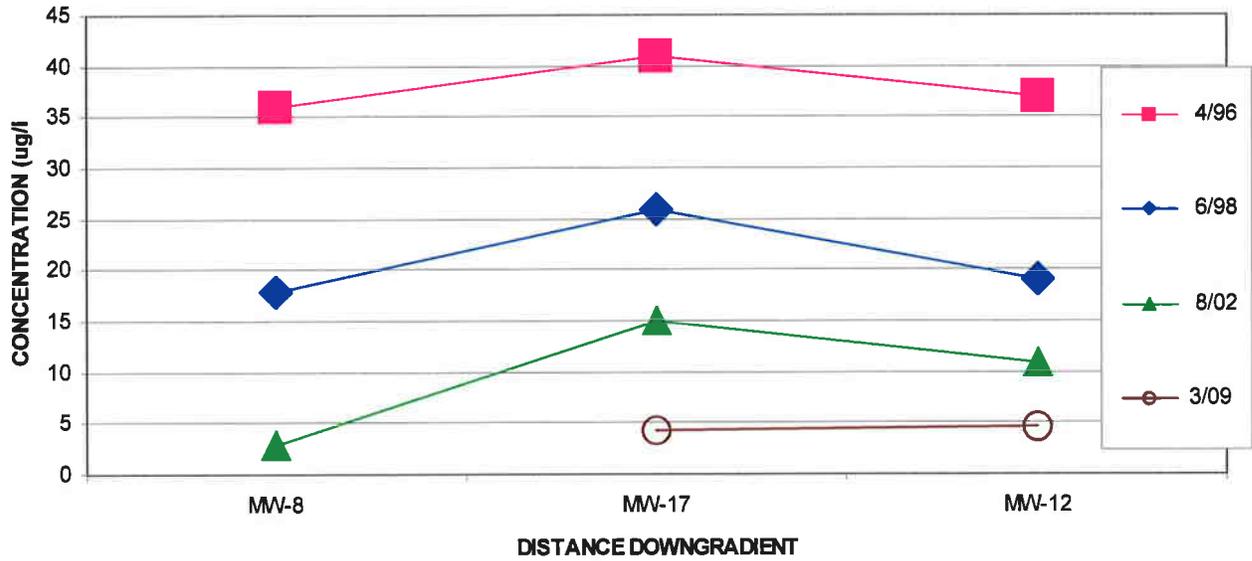
Comparisons of past and current, parent and daughter product concentrations and extent were presented graphically in the SCM with both trend graphs and chronological vertical and horizontal contour maps. Comparisons of relative concentrations over time were presented graphically with pie charts to illustrate the role of reductive reactions in natural attenuation processes across the site.

MNA guidance also recommends that contour maps be prepared for the natural attenuation indicator parameters as well. The SCM and subsequent monitoring event reports have included MNA indicator delineation maps. These delineation maps are provided to illustrate map indicator trends and chemical reactions influencing natural attenuation processes at the site. Updated indicator contour maps for data obtained in August 2002, involving the complete well network, was provided in the August 2002 Monitoring Event Report.

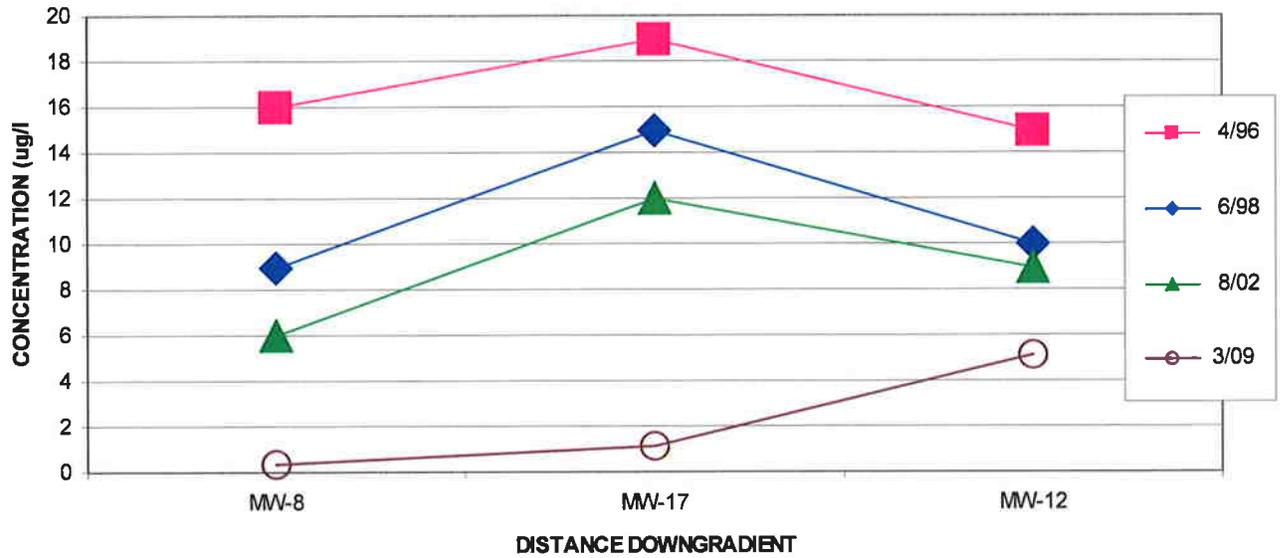
Graphical tests for evaluating plume stability and behavior have been established for evaluating the performance of natural attenuation (US AFCEE, 2000). These graphical tests are most successful at demonstrating natural attenuation is occurring at a site when the historical data is shown to display a statistically significant plume stabilization and/or loss of constituent mass over time. The graphical techniques for evaluating plume stability include 1) preparing isopleth maps of constituent concentration over time 2) plotting constituent concentrations versus time for individual wells, and 3) plotting constituent concentrations versus distance downgradient for several wells along the groundwater flow path over several events. Items 1 and 2 were evaluated extensively in the SCM and are revisited in this report. Item 3, plots of constituent concentrations versus distance downgradient, are provided below for the constituents PCE, TCE, 1,1,1-TCA and 1,1-DCE.

Note that the historical data for the parent constituents PCE and TCE is shown to display a statistically significant loss of constituent mass over time in the west drainage.

TETRACHLOROETHENE
PLOT OF CONCENTRATION VERSUS TIME AND DISTANCE DOWNGRADIENT
WEST DRAINAGE

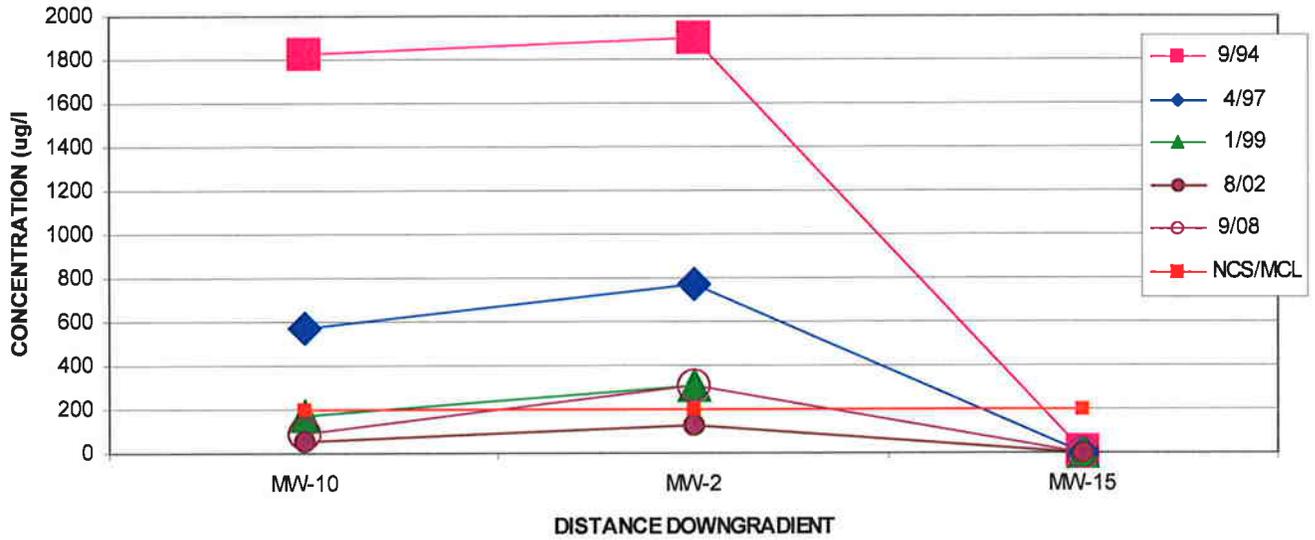


TRICHLOROETHENE
PLOT OF CONCENTRATION VERSUS TIME AND DISTANCE DOWNGRADIENT
WEST DRAINAGE

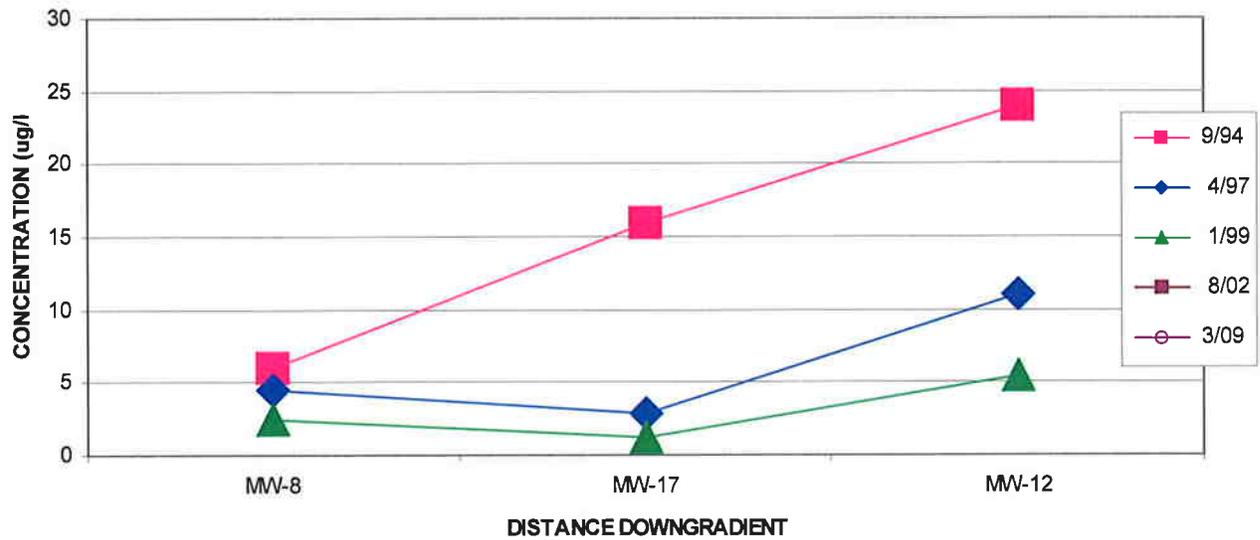


Plots of constituent concentrations versus distance downgradient are provided below for the parent constituent 1,1,1-TCA along the north and west drainage.

**1,1,1-TRICHLOROETHANE
CONCENTRATION VERSUS DISTANCE DOWNGRADIENT AND TIME
NORTH DRAINAGE**



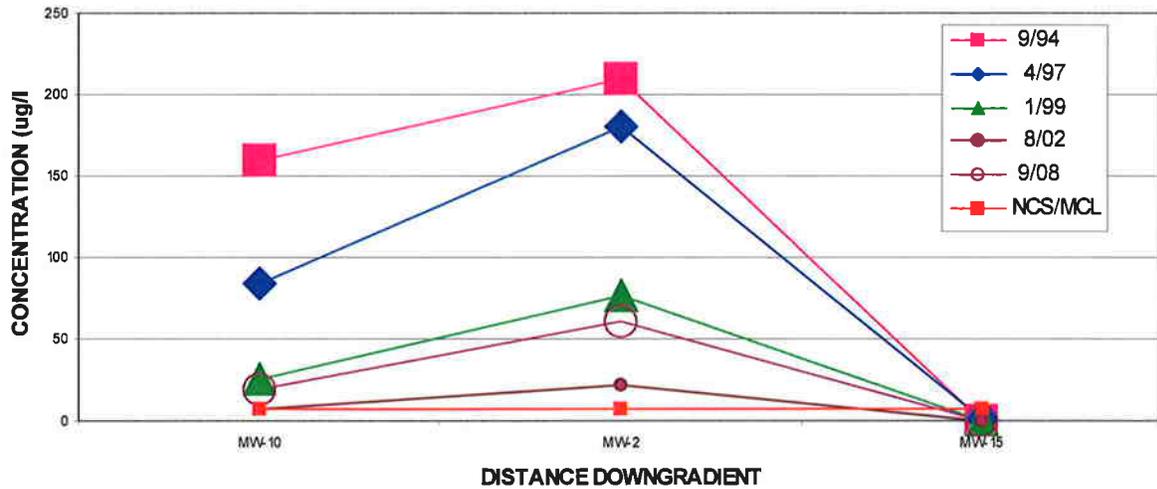
**1,1,1-TRICHLOROETHANE
CONCENTRATION VERSUS DISTANCE DOWNGRADIENT AND TIME
WEST DRAINAGE**



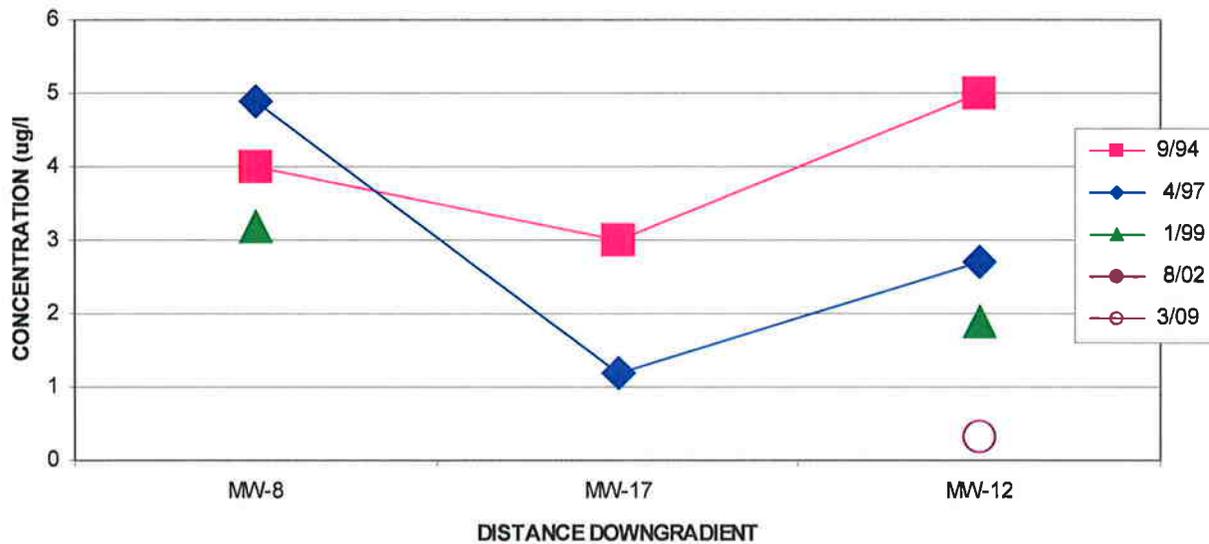
Note that although the historical data for 1,1,1-TCA is shown to display a statistically

significant loss of constituent mass over time in the west drainage, in the north drainage, the data reverses trend. Plots of constituent concentrations versus distance downgradient provided below for 1,1-DCE along the north and west drainage reflect similar trends.

**1,1-DICHLOROETHENE
CONCENTRATION VERSUS DISTANCE DOWNGRADIENT AND TIME
NORTH DRAINAGE**



**1,1-DICHLOROETHENE
CONCENTRATION VERSUS DISTANCE DOWNGRADIENT AND TIME
WEST DRAINAGE**



Note that similar to 1,1,1-TCA concentration trends, although 1,1-DCE historical data is shown to display a statistically significant loss of constituent mass over time in the west drainage, recent data reverses trend in the north drainage.

Although 1,1,1-TCA and 1,1-DCE concentrations in the north drainage were observed to increase between 2003 and 2004, and elevated concentrations were observed at the southern saddle in 2004, these increases appear to not be indicative of a permanent trend reversal. 1,1-DCE concentrations decreased in the north drainage in 2005 and 2006, and lower concentrations were again observed at the southern saddle in 2005 and 2006. The combination of decreasing constituent concentrations and the lack of constituent migration, as shown by the plots presented above, provide reasonable evidence for natural attenuation and constituent mass destruction (US AFCEE, 2000). The chemical and geochemical data discussed in the August 2002 Monitoring Event Report is used to show that loss of constituent mass is the result of intrinsic bioremediation (EPA, 1988).

6.0 CONCLUSIONS

6.1 Next Assessment Monitoring Event

The next assessment monitoring event is scheduled for October 2009. The monitoring event will comply with the following monitoring program schedule:

- Semiannual monitoring of the core monitoring wells,
- Semiannual surface water monitoring, and
- No sampling of select non-impacted assessment monitoring wells.

6.2 Ongoing Investigation

In response to NCDENR concerns over continued exceedences of North Carolina Groundwater Quality Standards at the facility property lines, additional risk management and investigative efforts will continue. To address risk, the potable well sampling will continue. The County also proposes to continue the sampling for select field MNA indicator parameters on the next event. As noted above, sampling will incorporate field MNA indicator analysis at all core monitoring wells. These ongoing investigative efforts should provide the data necessary to confirm natural attenuation processes active at the site and provide the information necessary to manage risk.

Source containment, implemented through a remedial cap, supplemented by risk assessment, institutional controls, natural attenuation, and continuing assessment investigation comprise the broad package of remedial actions currently being conducted at the site. The deep, low flow conditions indicated by the BREMCO investigation preclude the use of active or invasive remedial activities along the plume boundary, whereas source containment and natural attenuation appear to be effective solutions to observed environmental impact. Target and indicator parameter concentration and distribution trends indicate natural attenuation is effective

across the site. Migration of detectable concentrations of the target parameters beyond the current plume boundary is not anticipated. In fact, reduction of the plume boundary is indicated.

Assessment data collected to date currently provides over ten years of evidence indicating plume attenuation. Ongoing monitoring will provide the temporal data necessary to comprehensively assess constituent transportation, migration, and fate trends. As plume attenuation continues to be observed at the site, source controls will reduce leachate production, and thus reduce plume migration. Natural attenuation processes will gradually lower plume concentrations and should provide for a continuously diminished plume boundary.

Ongoing natural attenuation indicator monitoring should enable the identification of conditions affecting reductive dechlorination and aerobic degradation processes existing at impacted locations across the site. The identification of favorable and/or unfavorable site conditions that can either promote or limit active natural attenuation processes may enable the relaxation of factors impeding intrinsic reduction and oxidation reactions at the site. An increased understanding of these site dynamics may enable the promotion of reduction/oxidation conditions that favor degradation.

LIST OF ACRONYMS

Acronyms and Terms

| | |
|--------|--|
| ADHD | Appalachian District Health Department |
| BREMCO | Blue Ridge Electric Membership Company |
| CFR | Code of Federal Regulations |
| CLP | Contract Laboratory Program |
| COC | Chain of Custody |
| CRQL | Contract Required Quantitation Limit |
| CVAA | Cold Vapor Atomic Absorption |
| DAA | Draper Aden Associates |
| DQO | Data Quality Objectives |
| EPA | Environmental Protection Agency |
| EQL | Estimated Quantitation Limit |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography with Mass Spectrometry |
| GFAA | Graphite Furnace Atomic Absorption |
| GMP | Groundwater Monitoring Program |
| IDL | Instrument Detection Level (IDL) |
| ICP | Inductively Coupled Plasma |
| LLRA | Low Level Risk Assessment |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MCL | Maximum Contaminant Level |
| MDL | Method Detection Limit |
| MW | Monitoring Well |
| NCDENR | North Carolina Department of Environment and Natural Resources |
| NCS | North Carolina groundwater standard |
| PQL | Practical Quantitation Limit |
| QA/QC | Quality Assurance / Quality Control |
| SOW | Statements of Work |
| SW-846 | USEPA Solid Waste document 846 |
| USEPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compound |

Units of Measure

| | |
|-------|---|
| μ | micron (10 ⁻⁶ meters) |
| ml | milliliter (0.001 liter) |
| l | liter |
| μg/l | microgram per liter (equivalent to parts per billion - ppb) |
| μS/cm | microsiemens per centimeter |
| °C | degrees Celsius |

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List of Watauga County Landfill Assessment documents prepared by Draper Aden Associates

“Geotechnical and Hydrogeologic Investigation of the Bolick Site at the Watauga County Landfill,” dated March 1, 1993. DAA JN 6520-02

30 pages text, 6 tables, 9 figures and 6 appendices.

Purpose: Results of the Bolick Site geotechnical and hydrogeological investigation conducted by DAA between August 1992 and February 1993.

“Watauga County Landfill Permit No. 95-02 Assessment Plan,” dated September 3, 1993. DAA JN 6520-13

110 pages text, 11 tables, 11 figures and 4 appendices (SAP and HASP included as separate).

Purpose: Assessment Plan drafted pursuant to July 1993 Watauga Co./NCDEHNR Consent Agreement.

“Watauga County Landfill Permit No. 95-02 Assessment Plan Activity Report,” dated July 29, 1994. DAA JN 6520-14

55 pages text, 5 tables, 6 figures and 7 appendices (as separate).

Purpose: Initial Assessment Plan field activities (well installation, aquifer testing, lab procurement, etc.).

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, Initial Background Data Set, First Quarter Event,” dated November 2, 1994. DAA JN 6520-20

Vol. I (34 pages text, 6 tables, 2 figures and 4 appendices), Vol. II (data documentation, 3 books).

Purpose: Results of first Assessment monitoring event sampled on June 20-23, 1994.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, Initial Background Data Set, Second Quarter Event,” dated February 17, 1995. DAA JN 6520-20

Vol. I (36 pages text, 10 tables, 2 figures and 4 appendices), Vol. II (data documentation, 3 books).

Purpose: Results of second Assessment monitoring event sampled on September 27-30, 1994.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, Initial Background Data Set, Third Quarter Event,” dated August 3, 1995. DAA JN 6520-20

Vol. I (39 pages text, 12 tables, 2 figures and 4 appendices), Vol. II (data documentation, 3 books).

Purpose: Results of third Assessment monitoring event sampled on February 6-10, 1995.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, Initial Background Data Set, Fourth Quarter Event,” dated October 10, 1995. DAA JN 6520-20

Vol. I (38 pages text, 12 tables, 2 figures and 4 appendices), Vol. II (data documentation, 3 books).

Purpose: Results of fourth Assessment monitoring event sampled on April 11-13, 1995.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, First Semiannual Event,” dated January 12, 1996. DAA JN 6520-21

Vol. I (52 pages text, 13 tables, 2 figures and 4 appendices), Vol. II (data documentation, 9 books).

Purpose: Results of fifth Assessment monitoring event sampled on July 10-13, 1995.

“Watauga County Landfill Permit No. 95-02 Remedial Investigation and Alternatives Report,” dated January 2, 1996. DAA JN 6520-18

94 pages text, 15 tables, 5 figures and 7 appendices (4 appendices included as separate).

Purpose: Summary of assessment and remedial investigation activities performed to date, including remedial alternative review and proposed immediate remedial action responses appropriate at this time.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, Second Semiannual Event,” dated June 3, 1996. DAA JN 6520-21

Vol. I (39 pages text, 11 tables, 2 figures and 4 appendices), Vol. II (data documentation, 3 books).

Purpose: Results of sixth Assessment monitoring event sampled on April 9-10, 1996.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results,

April 8-9, 1997 Event,” dated June 19, 1997. DAA JN 6520-21

40 pages text, 12 tables, 2 figures and 5 appendices, Appendix E (data documentation) on CD-ROM.

Purpose: Results of seventh Assessment monitoring event sampled on April 8-9, 1997.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, January 14-15, 1998 Event,” dated May 6, 1998. DAA JN 6520-21

34 pages text, 14 tables, 2 figures and 5 appendices, Appendix E (data documentation) on CD-ROM.

Purpose: Results of eighth Assessment monitoring event sampled on January 14-15, 1998.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, June 23-24, 1998 Event,” dated September 10, 1998. DAA JN 6520-21

26 pages text, 14 tables, 2 figures and 5 appendices, Appendix E (data documentation) as separate Book.

Purpose: Results of ninth Assessment monitoring event sampled on June 23-24, 1998.

“Blue Ridge Electric Membership Company October 1998 Potable Well Testing Report of Investigation,” dated March 1, 1999. DAA JN 6520-24

20 pages text, 3 tables, 4 figures and 4 appendices.

Purpose: Results of October 1998 investigation of the BREMCO well.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, January 11-12, 1999 Event,” dated April 19, 1999. DAA JN 6520-21

29 pages text, 13 tables, 2 figures and 5 appendices, Appendix E (data documentation) as separate Book

Purpose: Results of tenth Assessment monitoring event sampled on January 11-12, 1999.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, July 12-13, 1999 Event, Including Site Conceptual Model Update”, dated January 5, 2000. DAA JN 6520-21

54 pages text, 14 tables, 2 figures and 5 appendices, Appendix F includes 34 plume delineation maps

Purpose: Results of eleventh Assessment monitoring event sampled on July 12-13, 1999, including updated site conceptual model.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, February 1-3, 2000 Event,” dated May 9, 2000. DAA JN 6520-21

25 pages text, 14 tables, 2 figures and 7 appendices

Purpose: Results of twelfth Assessment monitoring event sampled on February 1-3, 2000, including first sampling event incorporating MNA indicator parameters.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, August 8-9, 2000 Event,” dated September 25, 2000. DAA JN 6520-37

23 pages text, 14 tables, 2 figures and 6 appendices

Purpose: Results of thirteenth Assessment monitoring event sampled on August 8-9, 2000, including second sampling event incorporating MNA indicator parameters.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, February 1-3, 2001 Event,” dated June 20, 2001. DAA JN 6520-37

25 pages text, 13 tables, 2 figures and 6 appendices

Purpose: Results of fourteenth Assessment monitoring event sampled on February 1-3, 2001, including third sampling event incorporating natural attenuation indicator parameters.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, August 7-8, 2001 Event,” dated October 26, 2001. DAA JN 6520-39

29 pages text, 14 tables, 2 figures and 6 appendices

Purpose: Results of fifteenth Assessment monitoring event sampled on August 7-8, 2001, including natural attenuation demonstration.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, February 11-14, 2002 Event,” dated April 11, 2002. DAA JN 6520-39

56 pages text, 14 tables, 2 figures and 7 appendices

Purpose: Results of sixteenth Assessment monitoring event sampled on February 11-14, 2002, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, August 12-14, 2002 Event,” dated November 18, 2002. DAA JN 6520-39

57 pages text, 13 tables, 2 figures and 5 appendices

Purpose: Results of seventeenth Assessment monitoring event sampled on August 12-14, 2002, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, January 21-22, 2003 Event,” dated March 10, 2003. DAA JN 6520-39

32 pages text, 13 tables, 2 figures and 5 appendices

Purpose: Results of eighteenth Assessment monitoring event sampled on January 21-22, 2003, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, July 14-15, 2003 Event,” dated October 22, 2003. DAA JN 6520-39

31 pages text, 12 tables, 2 figures and 5 appendices

Purpose: Results of nineteenth Assessment monitoring event sampled on July 14-15, 2003, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, March 16-17, 2004 Event,” dated May 17, 2004. DAA JN 6520-39

34 pages text, 12 tables, 2 figures and 5 appendices

Purpose: Results of twentieth Assessment monitoring event sampled on March 16-17, 2004, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, September 29-30, 2004 Event,” dated Dec. 13, 2004. DAA JN 6520-39

34 pages text, 11 tables, 2 figures and 5 appendices

Purpose: Results of twenty-first Assessment monitoring event sampled on September 29-30, 2004, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, March 30-31, 2005 Event,” dated May 25, 2005. DAA JN 6520-39

34 pages text, 11 tables, 2 figures and 5 appendices

Purpose: Results of twenty-second Assessment monitoring event sampled on March 30-31, 2005, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, October 3-4, 2005 Event,” dated January 5, 2006. DAA JN 6520-39

33 pages text, 10 tables, 2 figures and 5 appendices

Purpose: Results of twenty-third Assessment monitoring event sampled on October 3-4, 2005, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, April 4-5, 2006 Event,” dated June 9, 2006. DAA JN 6520-39

32 pages text, 11 tables, 2 figures and 5 appendices

Purpose: Results of twenty-fourth Assessment monitoring event sampled on April 4-5, 2006, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, September 27-28, 2006 Event,” dated Dec. 12, 2006. DAA JN 6520-39

34 pages text, 10 tables, 2 figures and 5 appendices

Purpose: Results of twenty-fifth Assessment monitoring event sampled on September 27-28, 2007, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, April 2-3, 2007 Event,” dated June 25, 2007. DAA JN 6520-39

36 pages text, 11 tables, 2 figures and 5 appendices

Purpose: Results of twenty-sixth Assessment monitoring event sampled on April 2-3, 2007, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, September 18-19, 2007 Event,” dated Nov. 12, 2007. DAA JN 6520-39

36 pages text, 10 tables, 2 figures and 5 appendices

Purpose: Results of twenty-seventh Assessment monitoring event sampled on September 18-19, 2007, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, March 10-12, 2008 Event,” dated June 18, 2008. DAA JN 6520-39

38 pages text, 11 tables, 2 figures and 5 appendices

Purpose: Results of twenty-eighth Assessment monitoring event sampled on March 10-12, 2008, including natural attenuation demonstration update.

“Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, September 8-9, 2008 Event,” dated Nov. 10, 2008. DAA JN 6520-39

35 pages text, 10 tables, 2 figures and 5 appendices

Purpose: Results of twenty-ninth Assessment monitoring event sampled on September 8-9, 2008, including natural attenuation demonstration update.

APPENDIX A
TABLES AND FIGURES

Table 1
Watauga County Landfill
Groundwater and Surface Water
Assessment Monitoring Schedule

| GROUNDWATER MONITORING | 1st Year (94/95) Quarterly Sampling Events | | | | Subsequent Semiannual Sampling Events* | |
|---|---|----------------|-----------------|----------------|--|----------------|
| "CORE" ASSESSMENT WELLS | | | | | | |
| Target Parameter Monitoring Parameters* | CLP Methods | CLP Methods | CLP Methods | CLP Methods | Low Level Risk Assessment Screening Methods | CLP Methods |
| "BOUNDARY" ASSESSMENT WELLS*** | | | | | | |
| Target Parameter Monitoring Parameters* | LLRA Methods | CLP Methods | LLRA Methods | CLP Methods | LLRA Methods | - |
| SURFACE WATER MONITORING | | | | | | |
| Target Parameter Monitoring Parameters* | CLP Methods | - | CLP Methods | - | CLP Methods | CLP Methods |

CLP - EPA Contract Laboratory Program Methods

LLRA - Low Level Risk Assessment Screening Methods (EPA SW-846)

* - Semiannual analysis for target organics; annual analysis for target metals (approved June 1998).

** - Semiannual monitoring of a subset of the core monitoring well network (MW-2, MW-3, MW-6, MW-9, MW-12 and MW-17); the groundwater at these six monitoring points has historically exceeded the EPA MCL for one or more organic target parameters. Annual monitoring of the existing twelve core monitoring well network (approved June 1998).

*** - Monitoring frequency of non-impacted wells based on annual review of temporal contaminant distribution trends and MNA demonstration requirements.

TABLE 4
GROUNDWATER LEVEL DATA
MONITORING WELLS

| REFERENCE ELEVATION | | | | | | | | | | |
|---------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 |
| GROUND | 3339.03 | 3151.24 | 3182.25 | 3150.06 | 3263.81 | 3262.55 | 3270.56 | 3235.39 | 3356.65 | 3202.18 |
| MEASURING POINT | 3341.80 | 3152.94 | 3183.12 | 3152.52 | 3267.69 | 3266.04 | 3273.53 | 3239.77 | 3359.23 | 3203.87 |
| DATE | STATIC WATER LEVEL | | | | | | | | | |
| 6/20/94 | 38.00 | 7.88 | 18.43 | 13.48 | NM | 44.12 | 23.03 | 17.69 | 59.35 | 8.18 |
| 9/27/94 | 39.69 | 7.51 | 17.42 | 10.45 | NM | 43.99 | 30.73 | 17.38 | 57.79 | 8.09 |
| 2/6/95 | 37.57 | 5.58 | 16.20 | 8.18 | 50.39 | 42.85 | 45.88 | 15.41 | 59.54 | 7.73 |
| 4/11/95 | 37.94 | 6.46 | 16.85 | 9.22 | 48.95 | 42.81 | 49.11 | 16.05 | 59.30 | 7.90 |
| 7/10/95 | 41.20 | 6.60 | 17.43 | 8.94 | 50.29 | 43.73 | 48.98 | 17.42 | 80.17 | 7.91 |
| 4/9/96 | 38.71 | 5.85 | 7.01 | 8.40 | 49.87 | 42.87 | 44.32 | 16.80 | 61.28 | 7.67 |
| 4/8/97 | 38.30 | 5.59 | 16.35 | NM | NM | ABANDON | 40.50 | 17.43 | 62.47 | 7.67 |
| 1/13/98 | 43.71 | 7.00 | 17.51 | 8.54 | 55.46 | ABANDON | 44.18 | 20.32 | 63.56 | 8.25 |
| 6/23/98 | 36.84 | 5.94 | 14.01 | 7.98 | 46.82 | ABANDON | 43.07 | 16.92 | 62.15 | 7.32 |
| 1/11/99 | 44.56 | 7.66 | 18.87 | 8.85 | 55.11 | ABANDON | 37.89 | 22.83 | 64.39 | 8.68 |
| 7/12/99 | 42.87 | 6.78 | 15.16 | 8.18 | 53.26 | ABANDON | 45.79 | 19.92 | 64.05 | 8.25 |
| 2/1/00 | 44.10 | 7.62 | 17.05 | 9.12 | 56.08 | ABANDON | 41.25 | 21.40 | 64.41 | 8.41 |
| 8/8/00 | 42.37 | 7.42 | 17.28 | 9.02 | 52.96 | ABANDON | 45.65 | 21.25 | 63.70 | 8.54 |
| 2/12/01 | 46.80 | 8.05 | 18.92 | 9.10 | 58.67 | ABANDON | 42.72 | 24.27 | 64.60 | 9.13 |
| 8/7/01 | NM | 7.16 | 14.65 | NM | NM | ABANDON | NM | 19.53 | 63.94 | NM |
| 2/11/02 | 44.79 | 6.92 | 16.25 | 8.00 | 58.41 | ABANDON | 44.11 | 22.75 | 63.99 | 8.65 |
| 8/12/02 | 44.66 | 9.14 | 18.63 | 10.99 | 57.04 | ABANDON | 47.34 | bent | 64.24 | 9.36 |
| 1/21/03 | NM | 6.72 | 14.60 | NM | NM | ABANDON | ABANDON | bent | 64.24 | NM |
| 7/14/03 | 39.41 | 5.25 | 13.89 | 6.78 | 47.93 | ABANDON | ABANDON | bent | 62.39 | 7.47 |
| 3/16/04 | 40.57 | 4.66 | 15.01 | 6.04 | 51.37 | ABANDON | ABANDON | bent | 63.04 | 7.66 |
| 9/30/04 | 39.75 | 3.11 | 13.50 | NM | NM | ABANDON | ABANDON | bent | 62.44 | 7.49 |
| 3/30/05 | 39.74 | 3.85 | 14.23 | 5.35 | 50.10 | ABANDON | ABANDON | bent | 62.99 | 7.30 |
| 10/03/05 | NM | 6.13 | 17.81 | NM | NM | ABANDON | ABANDON | bent | 64.49 | 7.85 |
| 4/3/06 | NM | 5.20 | 16.80 | 6.36 | NM | ABANDON | ABANDON | bent | 64.13 | 7.69 |
| 9/27/06 | 41.13 | 5.45 | 15.60 | NM | NM | ABANDON | ABANDON | bent | 64.38 | 8.02 |
| 4/3/07 | NM | 4.69 | 15.54 | NM | NM | ABANDON | ABANDON | bent | 63.82 | NM |
| 9/18/07 | 42.70 | 7.04 | 20.90 | NM | NM | ABANDON | ABANDON | bent | 65.25 | 8.81 |
| 3/10/08 | NM | 5.40 | 15.97 | NM | NM | ABANDON | ABANDON | 8.82 | 64.56 | NM |
| 9/8/08 | 42.76 | 6.89 | 19.83 | NM | NM | ABANDON | ABANDON | 29.49 | 64.61 | 8.71 |
| 3/11/09 | NM | 5.83 | 18.83 | NM | NM | ABANDON | ABANDON | 25.14 | 64.42 | NM |
| DATE | GROUNDWATER ELEVATION | | | | | | | | | |
| 6/20/94 | 3303.80 | 3145.06 | 3164.69 | 3139.04 | NM | 3221.92 | 3250.50 | 3222.09 | 3299.88 | 3195.69 |
| 9/27/94 | 3302.11 | 3145.43 | 3165.70 | 3142.07 | NM | 3222.05 | 3242.80 | 3222.39 | 3301.44 | 3195.78 |
| 2/6/95 | 3304.23 | 3147.36 | 3166.92 | 3144.34 | 3217.30 | 3223.19 | 3227.65 | 3224.36 | 3299.69 | 3196.14 |
| 4/11/95 | 3303.86 | 3146.46 | 3166.27 | 3143.30 | 3218.74 | 3223.23 | 3224.42 | 3223.72 | 3299.93 | 3195.97 |
| 7/10/95 | 3300.60 | 3146.34 | 3165.69 | 3143.58 | 3217.40 | 3222.31 | 3224.55 | 3222.35 | 3279.06 | 3195.96 |
| 4/9/96 | 3303.09 | 3147.09 | 3176.11 | 3144.12 | 3217.82 | 3223.17 | 3229.21 | 3222.97 | 3297.95 | 3196.20 |
| 4/8/97 | 3303.50 | 3147.35 | 3166.77 | NM | NM | ABANDON | 3233.03 | 3222.34 | 3296.76 | 3196.20 |
| 1/13/98 | 3298.09 | 3145.94 | 3165.61 | 3143.98 | 3212.23 | ABANDON | 3229.35 | 3219.45 | 3295.67 | 3195.62 |
| 6/23/98 | 3304.96 | 3147.00 | 3169.11 | 3144.54 | 3220.87 | ABANDON | 3230.46 | 3222.85 | 3297.08 | 3196.55 |
| 1/11/99 | 3297.24 | 3145.28 | 3164.25 | 3143.67 | 3212.58 | ABANDON | 3235.64 | 3216.94 | 3294.84 | 3195.19 |
| 7/12/99 | 3298.93 | 3146.16 | 3167.96 | 3144.34 | 3214.43 | ABANDON | 3227.74 | 3219.85 | 3295.18 | 3195.62 |
| 2/1/00 | 3297.70 | 3145.32 | 3166.07 | 3143.40 | 3211.61 | ABANDON | 3232.28 | 3218.37 | 3294.82 | 3195.46 |
| 8/8/00 | 3299.43 | 3145.52 | 3165.84 | 3143.50 | 3214.73 | ABANDON | 3227.88 | 3218.52 | 3295.53 | 3195.33 |
| 2/12/01 | 3295.00 | 3144.89 | 3164.20 | 3143.42 | 3209.02 | ABANDON | 3230.81 | 3215.50 | 3294.63 | 3194.74 |
| 8/7/01 | NM | 3145.78 | 3168.47 | NM | NM | ABANDON | NM | 3220.24 | 3295.29 | NM |
| 2/11/02 | 3297.01 | 3146.02 | 3166.87 | 3144.52 | 3209.28 | ABANDON | 3229.42 | 3217.02 | 3295.24 | 3195.22 |
| 8/12/02 | 3297.14 | 3143.80 | 3164.49 | 3141.53 | 3210.65 | ABANDON | 3226.19 | bent | 3294.99 | 3194.51 |
| 1/21/03 | NM | 3146.22 | 3168.52 | NM | NM | ABANDON | ABANDON | bent | 3294.99 | NM |
| 7/14/03 | 3302.39 | 3147.69 | 3169.23 | 3145.74 | 3219.76 | ABANDON | ABANDON | bent | 3296.84 | 3196.40 |
| 3/16/04 | 3301.23 | 3148.28 | 3168.11 | 3146.48 | 3216.32 | ABANDON | ABANDON | bent | 3296.19 | 3196.21 |
| 9/30/04 | 3302.05 | 3149.83 | 3169.62 | NM | NM | ABANDON | ABANDON | bent | 3296.79 | 3194.52 |
| 3/30/05 | 3302.06 | 3149.09 | 3168.89 | 3147.17 | 3217.59 | ABANDON | ABANDON | bent | 3296.24 | 3196.57 |
| 10/03/05 | NM | 3146.81 | 3165.31 | NM | NM | ABANDON | ABANDON | bent | 3294.74 | 3196.02 |
| 4/3/06 | NM | 3147.74 | 3166.32 | 3146.16 | NM | ABANDON | ABANDON | bent | 3295.10 | 3196.18 |
| 9/27/06 | 3300.67 | 3147.49 | 3167.52 | NM | NM | ABANDON | ABANDON | bent | 3294.85 | 3195.85 |
| 4/3/07 | NM | 3148.25 | 3167.58 | NM | NM | ABANDON | ABANDON | bent | 3295.41 | NM |
| 9/18/07 | 3299.10 | 3145.90 | 3162.22 | NM | NM | ABANDON | ABANDON | bent | 3293.98 | 3195.06 |
| 3/10/08 | NM | 3147.54 | 3167.15 | NM | NM | ABANDON | ABANDON | 3230.95 | 3294.67 | NM |
| 9/8/08 | 3299.04 | 3146.05 | 3163.29 | NM | NM | ABANDON | ABANDON | 3210.28 | 3294.62 | 3195.16 |
| 3/11/09 | NM | 3147.11 | 3164.29 | NM | NM | ABANDON | ABANDON | 3210.28 | 3294.81 | NM |

- 1) ALL MEASUREMENTS IN FEET.
- 2) ALL ELEVATIONS REFERENCE MEAN SEA LEVEL.
- 3) MEASURING POINT (M.P.) IS FROM THE TOP OF WELL CASING.
- 4) NM = NOT MEASURED

Watauga County Landfill

Watauga County, North Carolina

Table 2A

04/14/09

Upgradient Well: MW-1

First Semiannual 2009 Monitoring Event

Assessment Target Parameter Analytical Results

Core Subset Groundwater Monitoring Wells - Sampled March 11-12, 2009

| Parameters | Results ug/L(ppb) | | | | | | | | | | | | NCS (ug/L) | MCL (ug/L) |
|--------------------------|-------------------|----|------|----|------|----|------|---|-------|---|-------|----|---------------|---------------|
| | MW-2 | | MW-3 | | MW-8 | | MW-9 | | MW-12 | | MW-17 | | | |
| Benzene | 0.5 | U | 0.5 | U | 0.5 | U | 2.9 | | 0.4 | J | 0.5 | U | 1 | 5 |
| Chlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.4 | J | 0.4 | J | 0.5 | U | 50 | 100 |
| 1,4-Dichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 1.4 | | 2.7 | | 0.5 | UJ | 1.4 | 100 |
| Chloroethane | 0.5 | U | 2.4 | | 0.5 | U | 5.8 | | 9.9 | | 0.5 | U | 2800 | - |
| Dichlorodifluoromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.4 | J | 0.5 | U | 0.5 | U | 1400 | - |
| 1,1-Dichloroethane | 25 | | 8.1 | | 0.2 | J | 15 | | 25 | | 2.3 | | 70 | - |
| 1,1-Dichloroethene | 46 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.3 | J | 0.5 | U | 7 | 7 |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.7 | | 0.5 | U | 0.38 | - |
| 1,2-Dichloropropane | 0.5 | U | 0.3 | J | 0.5 | U | 0.2 | J | 0.9 | | 0.5 | U | 0.51 | 5 |
| Cis-1,2-Dichloroethene | 0.5 | U | 24 | | 0.2 | J | 9.1 | | 59 | | 6.1 | | 70 | 70 |
| Trans-1,2-Dichloroethene | 0.5 | U | 0.2 | J | 0.5 | U | 0.3 | J | 0.7 | | 0.5 | U | 70 | 100 |
| Methylene Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.6 | U | 0.5 | U | 5 | 5 |
| Tetrachloroethene | 3.4 | J | 0.9 | J | 0.5 | UJ | 0.9 | J | 4.6 | J | 4.2 | J | 0.7 | 5 |
| Trichloroethene | 0.3 | J | 2.5 | | 0.4 | J | 1.4 | | 5.1 | | 1.1 | | 2.8 | 5 |
| 1,1,1-Trichloroethane | 200 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 200 | 200 |
| Vinyl Chloride | 0.2 | J | 0.1 | J | 0.5 | U | 1.7 | | 2.9 | | 0.5 | U | 0.015 | 2 |

Notes:

NCS Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)

MCL Denotes EPA Maximum Contaminant Level (EPA 822-R-94-001)

U Denotes not detected (the associated numerical value is the Limit of Quantitation).

J Denotes an estimated value.

- Denotes Not Established.

Organic parameters were analyzed in accordance with SW-846 Method 8260B (25 ml purge).

First Semiannual 2009 Monitoring Event
Surface Water Monitoring - Sampled March 11-12, 2009
Organic Parameter Analytical Results

| Parameters | Results ug/L(ppb) | | | | | | | | | | | | WQS (ug/L) | MCL (ug/L) |
|--------------------------|-------------------|---|-----|---|-----|---|-----|---|-----|---|-----|---|---------------|---------------|
| | S-1 | | S-2 | | S-3 | | S-4 | | S-5 | | S-6 | | | |
| Benzene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 71.4 | 5 |
| Chloroethane | 10 | U | 6 | J | 10 | U | 10 | U | 10 | U | 10 | U | 860 | - |
| Dichlorodifluoromethane | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 77000 | - |
| 1,1-Dichloroethane | 10 | U | 10 | U | 10 | U | 4 | J | 10 | U | 10 | U | 19500 | - |
| 1,1-Dichloroethene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 19000 | 7 |
| Cis-1,2-Dichloroethene | 10 | U | 10 | U | 10 | U | 9 | J | 10 | U | 10 | U | 13000 | 70 |
| Trans-1,2-Dichloroethene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 27000 | 100 |
| Methylene Chloride | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 1600 | 5 |
| Tetrachloroethene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8.85 | 5 |
| Trichloroethene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 92.4 | 5 |
| 1,1,1-Trichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 2460 | 200 |
| Vinyl Chloride | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 525 | 2 |

Notes:

WQS Denotes North Carolina Class (Organism Only) Surface Water Quality Standard (T15A: 02B .0200)

MCL Denotes EPA Maximum Contaminant Level for drinking water.

U Denotes not detected (the associated numerical value is the Contract Required Quantitation Limit).

J Denotes an estimated value.

- Denotes Not Established.

NS Denotes Not Sampled.

Organic parameters were analyzed in accordance with EPA CLP Statement of Work OLMO4.3.

Watauga County Landfill

Watauga County, North Carolina

Table 2C

04/14/09

First Semiannual 2009 Monitoring Event
Inorganic Parameter Analytical Results

Core Subset Groundwater Monitoring Wells - Sampled March 11-12, 2009

| Parameters | Results ug/L(ppb) | | | | | | | | | | | | NCS (ug/L) | MCL (ug/L) |
|------------|-------------------|---|------|---|------|---|------|---|-------|---|-------|---|---------------|---------------|
| | MW-2 | | MW-3 | | MW-8 | | MW-9 | | MW-12 | | MW-17 | | | |
| Barium | 224 | | 168 | J | 113 | J | 594 | | 326 | | 510 | | 2000 | 2000 |
| Chromium | 10 | U | 42.6 | | 13.1 | | 10 | U | 10 | U | 10 | U | 50 | 100 |
| Cobalt | 1.6 | U | 4.1 | J | 3.6 | J | 8.3 | J | 1.7 | J | 4.9 | J | - | - |
| Iron | 440 | | 6850 | | 5490 | | 144 | U | 24.6 | U | 948 | | 300 | 300* |
| Nickel | 40 | U | 25.8 | J | 7.3 | J | 40 | U | 40 | U | 40 | U | 100 | - |
| Vanadium | 2.1 | J | 14.6 | J | 13.3 | J | 0.6 | J | 0.9 | J | 2.1 | J | - | - |

Notes:

U Denotes not detected. (the associated numerical value is the Instrument Detection Level (IDL)).

J Denotes an estimated value.

NCS Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)

MCL Denotes EPA Maximum Contaminant Level for drinking water.

* Denotes a Secondary MCL for Total Iron.

- Denotes not established or available.

Metal parameters were analyzed in accordance with EPA Contract Laboratory Program (CLP) Statement of Work ILMO 3.0

CLP analytical methods utilize relevant Atomic Adsorption and Inductively Coupled Plasma (ICP) methods for metal analysis.

Watauga County Landfill
Watauga County, North Carolina

Table 3
First Semiannual 2009 Monitoring Event
Detected Non-Target Organic Parameters
March 11-12, 2009

| Parameter | MW-2 | | MW-3 | | MW-12 | | NCS |
|------------------------|------|---|------|---|-------|---|------|
| Chloroform | 0.5 | U | 0.5 | U | 0.65 | | 70 |
| Chloromethane | 0.28 | J | 0.18 | J | 0.5 | U | 2.6 |
| Trichlorofluoromethane | 0.5 | U | 0.11 | J | 0.5 | U | 2100 |

Notes:

All concentrations are in ug/l.

J Denotes an estimated value.

N Denotes tentatively identified.

U Denotes not detected (the associated numerical value is the Limit of Quantitation).

NCS Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)

Samples were analyzed in accordance with EPA SW-846 Method 8260 (25 ml purge).

TABLE 4
GROUNDWATER LEVEL DATA
MONITORING WELLS

| REFERENCE ELEVATION | | | | | | | | | |
|---------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 | MW-16 | MW-17 | MW-18 | MW-19 |
| GROUND | 3156.44 | 3156.82 | 3117.39 | 3117 | 3117.15 | 3141.42 | 3181.14 | 3117.12 | 3125 |
| MEASURING POINT | 3159.6 | 3159.15 | 3119.72 | 3120 | 3120.65 | 3142.72 | 3183.62 | 3119.63 | 3140 |
| DATE | STATIC WATER LEVEL | | | | | | | | |
| 6/20/94 | 13.35 | 11.04 | 19.66 | 7.94 | 11.92 | 5.32 | 17.93 | 17.93 | - |
| 9/27/94 | 13.22 | 10.78 | 19.57 | 7.89 | 11.82 | 5.68 | 17.83 | 17.86 | - |
| 2/6/95 | 13.22 | 10.61 | 19.39 | 7.52 | 11.55 | 4.61 | 17.05 | 17.58 | - |
| 4/11/95 | 13.00 | 10.58 | 19.53 | 7.75 | 11.87 | 5.11 | 17.48 | 17.65 | - |
| 7/10/95 | 12.53 | 10.48 | 19.62 | 7.74 | 11.96 | 4.54 | 18.11 | 17.94 | - |
| 4/9/96 | 12.73 | 10.38 | 19.56 | 7.59 | 11.85 | 4.67 | 17.78 | 17.81 | - |
| 4/8/97 | 12.28 | 9.48 | NM | NM | 11.91 | ABANDON | 17.17 | NM | 4.85 |
| 1/13/98 | 12.48 | 9.65 | 19.75 | 7.44 | 11.74 | ABANDON | 18.60 | 18.32 | 10.21 |
| 6/23/98 | 11.82 | 9.11 | NM | 7.49 | 11.79 | ABANDON | 14.83 | 17.53 | 2.67 |
| 1/11/99 | 12.41 | 9.46 | 20.05 | 7.19 | 11.79 | ABANDON | 19.84 | 18.56 | 9.34 |
| 7/12/99 | 11.37 | 8.75 | 19.64 | NM | NM | ABANDON | 17.08 | 18.10 | 9.75 |
| 2/1/00 | 12.38 | 9.18 | 20.31 | 7.72 | 12.18 | ABANDON | 17.77 | 18.77 | 11.90 |
| 8/8/00 | 11.79 | 8.94 | 20.60 | 7.45 | 11.9 | ABANDON | 17.86 | 17.63 | NM |
| 2/12/01 | 12.40 | 9.23 | 20.03 | 7.68 | 12.09 | ABANDON | 19.21 | 18.23 | 24.45 |
| 8/7/01 | NM | 8.77 | NM | NM | NM | ABANDON | 15.47 | NM | NM |
| 2/11/02 | 12.03 | 8.86 | 19.81 | 7.42 | 11.85 | ABANDON | 17.10 | 18.05 | 24.65 |
| 8/12/02 | 12.16 | 9.17 | 20.11 | 8.23 | 12.54 | ABANDON | 20.04 | 18.27 | 25.09 |
| 1/21/03 | NM | 8.65 | NM | NM | NM | ABANDON | 15.44 | NM | NM |
| 7/14/03 | 11.09 | 8.27 | 18.85 | 7.24 | 11.41 | ABANDON | 14.86 | 16.96 | 16.98 |
| 3/16/04 | 12.82 | 9.24 | 19.28 | 7.16 | 11.43 | ABANDON | 15.79 | 17.29 | NM |
| 9/30/04 | 12.06 | 8.65 | NM | NM | 10.79 | ABANDON | 15.27 | NM | NM |
| 3/30/05 | 13.22 | 10.02 | NM | 6.51 | 11.01 | ABANDON | 15.12 | NM | NM |
| 10/03/05 | 14.51 | 10.94 | NM | NM | 11.95 | ABANDON | 18.53 | NM | 13.37 |
| 4/4/06 | 14.01 | 10.65 | NM | NM | 11.84 | ABANDON | 17.55 | NM | 14.42 |
| 9/27/06 | 13.83 | 10.54 | NM | NM | 11.54 | ABANDON | 16.41 | NM | 15.21 |
| 4/4/07 | NM | 10.50 | NM | NM | NM | ABANDON | 16.23 | NM | NM |
| 9/18/07 | 14.77 | 11.50 | NM | NM | 11.95 | ABANDON | 20.16 | NM | 16.13 |
| 3/10/08 | NM | 10.63 | NM | NM | NM | ABANDON | 16.55 | NM | NM |
| 9/8/08 | 14.15 | 11.21 | NM | NM | 11.89 | ABANDON | 20.13 | NM | 19.16 |
| 3/11/09 | NM | 10.90 | NM | NM | NM | ABANDON | 19.25 | NM | NM |
| DATE | GROUNDWATER ELEVATION | | | | | | | | |
| 6/20/94 | 3146.25 | 3148.11 | 3100.06 | 3112.06 | 3108.73 | 3137.40 | 3165.69 | 3101.70 | - |
| 9/27/94 | 3146.38 | 3148.37 | 3100.15 | 3112.11 | 3108.83 | 3137.04 | 3165.79 | 3101.77 | - |
| 2/6/95 | 3146.38 | 3148.54 | 3100.33 | 3112.48 | 3109.10 | 3138.11 | 3166.57 | 3102.05 | - |
| 4/11/95 | 3146.60 | 3148.57 | 3100.19 | 3112.25 | 3108.78 | 3137.61 | 3166.14 | 3101.98 | - |
| 7/10/95 | 3147.07 | 3148.67 | 3100.10 | 3112.26 | 3108.69 | 3138.18 | 3165.51 | 3101.69 | - |
| 4/9/96 | 3146.87 | 3148.77 | 3100.16 | 3112.41 | 3108.80 | 3138.05 | 3165.84 | 3101.82 | - |
| 4/8/97 | 3147.32 | 3149.67 | NM | NM | 3108.74 | ABANDON | 3166.45 | NM | 3120.15 |
| 1/13/98 | 3147.12 | 3149.50 | 3099.97 | 3112.56 | 3108.91 | ABANDON | 3165.02 | 3101.31 | 3114.79 |
| 6/23/98 | 3147.78 | 3150.04 | NM | 3112.51 | 3108.86 | ABANDON | 3168.79 | 3102.20 | 3122.33 |
| 1/11/99 | 3147.19 | 3149.69 | 3099.67 | 3112.81 | 3108.86 | ABANDON | 3163.78 | 3101.07 | 3115.66 |
| 7/12/99 | 3148.23 | 3150.40 | 3100.08 | NM | NM | ABANDON | 3166.54 | 3101.53 | 3115.25 |
| 2/1/00 | 3147.22 | 3149.97 | 3099.41 | 3112.28 | 3108.47 | ABANDON | 3165.85 | 3100.86 | 3113.10 |
| 8/8/00 | 3147.81 | 3150.21 | 3099.12 | 3112.55 | 3108.75 | ABANDON | 3165.76 | 3102.00 | NM |
| 2/12/01 | 3147.20 | 3149.92 | 3099.69 | 3112.32 | 3108.56 | ABANDON | 3164.41 | 3101.40 | 3115.55 |
| 8/7/01 | NM | 3150.38 | NM | NM | NM | ABANDON | 3168.15 | NM | NM |
| 2/11/02 | 3147.57 | 3150.29 | 3099.91 | 3112.58 | 3108.80 | ABANDON | 3166.52 | 3101.58 | 3115.35 |
| 8/12/02 | 3147.44 | 3149.98 | 3099.61 | 3111.77 | 3108.11 | ABANDON | 3163.58 | 3101.36 | 3114.91 |
| 1/21/03 | NM | 3150.50 | NM | NM | NM | ABANDON | 3168.18 | NM | NM |
| 7/14/03 | 3148.51 | 3150.88 | 3100.87 | 3112.76 | 3109.24 | ABANDON | 3168.76 | 3102.67 | 3123.02 |
| 3/16/04 | 3146.78 | 3149.91 | 3100.44 | 3112.84 | 3109.22 | ABANDON | 3167.83 | 3102.34 | NM |
| 9/30/04 | 3147.54 | 3150.50 | NM | NM | 3109.86 | ABANDON | 3168.35 | NM | NM |
| 3/30/05 | 3146.38 | 3149.13 | NM | 3113.49 | 3109.64 | ABANDON | 3168.50 | NM | NM |
| 10/03/05 | 3145.09 | 3148.21 | NM | NM | 3108.70 | ABANDON | 3165.09 | NM | 3126.63 |
| 4/4/06 | 3145.59 | 3148.50 | NM | NM | 3108.81 | ABANDON | 3166.07 | NM | 3125.58 |
| 9/27/06 | 3145.77 | 3148.61 | NM | NM | 3109.11 | ABANDON | 3167.21 | NM | 3124.79 |
| 4/4/07 | NM | 3148.65 | NM | NM | NM | ABANDON | 3167.39 | NM | NM |
| 9/18/07 | 3144.83 | 3147.65 | NM | NM | 3108.70 | ABANDON | 3163.46 | NM | 3123.87 |
| 3/10/08 | NM | 3148.52 | NM | NM | NM | ABANDON | 3167.07 | NM | NM |
| 9/8/08 | 3145.45 | 3147.94 | NM | NM | 3108.76 | ABANDON | 3163.49 | NM | 3120.84 |
| 3/11/09 | NM | 3148.25 | NM | NM | NM | ABANDON | 3164.37 | NM | NM |

- 1) ALL MEASUREMENTS IN FEET.
- 2) ALL ELEVATIONS REFERENCE MEAN SEA LEVEL.
- 3) MEASURING POINT (M.P.) IS FROM THE TOP OF WELL CASING.
- 4) NM - NOT MEASURED

P:\06\500\06520\06520-39\Reports\2009 tables\XLS - 09 0316 - NC DENR - TABLE4 - JES.xls\TABLE4

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | | | Analysis Type | | | | | | | | | | |
|--|------------|-------------------|-----|------|------|------|----|------|---|------|------|------|-----|------|------|-------|------|---------------|-------|------|-------|------|-------|------|-------|------|-------|-----------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | MW-10 | | | MW-11 | | MW-12 | | MW-15 | | MW-17 | | | |
| Benzene MCL= 5 ug/l NCS = 1 ug/l | | Organics | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6/20/94 | 10 | U | 120 | U | 10 | U | 9 | J | 0.42 | J | 0.72 | J | 0.4 | J | 5.3 | U | 5.3 | U | 5.3 | U | 5.3 | U | 5.3 | U | 5.3 | U | CLP/8021 |
| | 9/27/94 | 10 | U | 9 | J | 2 | J | 12 | J | 3 | J | 5 | J | 4 | J | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 2 | J | CLP |
| | 2/06/95 | 10 | U | 150 | U | 2 | J | 12 | J | 3.6 | J | 5 | J | 2 | J | 50 | U | 10 | U | 10 | U | 10 | U | 1 | U | 10 | U | CLP |
| | 4/11/95 | 10 | U | 200 | U | 1 | J | 10 | J | 3 | J | 6 | J | 3 | J | 71 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP |
| | 7/10/95 | 2 | U | 2 | U | 2.3 | J | 14 | J | 2.2 | J | 6.2 | J | 4 | J | 2 | U | 2 | U | 2 | U | 10 | U | 10 | U | 2 | U | 8021 |
| | 7/10/95 | 5 | U | 5 | U | 2.6 | J | 13 | J | 2.7 | J | 5.5 | J | 3.8 | J | 5 | U | 5 | U | 5 | U | - | - | - | - | 5 | U | 8260 |
| | 4/10/96 | 1 | J | 91 | U | 2 | J | 11 | J | 5 | J | 5 | J | 4 | J | 23 | U | 10 | U | 1 | J | 10 | U | 10 | U | 10 | U | CLP |
| | 4/8/97 | 1 | U | 100 | U | 2 | J | - | - | 4.8 | J | 2.3 | J | 3.9 | J | 100 | U | 1 | U | 1.4 | J | 1 | U | 1 | U | 1 | U | 8021 |
| | 1/15/98 | 10 | U | 20 | U | 3 | J | - | - | 2 | J | 2 | J | 3 | J | 14 | U | 10 | U | 2 | J | 10 | U | 2 | J | 2 | J | CLP |
| | 6/23/98 | - | - | 25 | UJ | 1 | J | - | - | - | - | 3 | J | 3 | J | - | - | - | - | 2 | J | - | - | 2 | J | 2 | J | CLP |
| | 1/12/99 | 1 | U | 1 | U | 3.6 | J | - | - | 2.4 | J | 2 | J | 3.2 | J | 1 | U | 1 | U | 2.5 | J | 1 | U | 1.4 | J | 1.4 | J | 8021B |
| | 7/12/99 | - | - | 10 | U | 2 | J | - | - | - | - | 1 | J | 2 | J | - | - | - | - | 10 | U | - | - | - | - | 2 | J | CLP |
| | 2/1/00 | 1 | U | 1 | U | 2.5 | J | - | - | 2.3 | J | 1.6 | J | 3.2 | J | 1 | U | 1.4 | J | 2.2 | J | 1 | U | 2.4 | J | 2.4 | J | 8021B |
| | 8/8/00 | - | - | 10 | U | 4 | J | - | - | - | - | 2 | J | 4 | J | - | - | - | - | 2 | J | - | - | - | - | 1 | J | CLP |
| | 2/12-14/01 | 1 | U | 1 | U | 3.9 | J | - | - | 2.3 | J | 1.3 | J | 4.3 | J | 1 | U | 1.8 | J | 2.8 | J | 1 | U | 5 | J | 5 | J | 8021B |
| | 8/7-8/01 | - | - | 10 | U | 1 | J | - | - | - | - | 1 | J | 2 | J | - | - | - | - | 2 | J | - | - | - | - | 4 | J | CLP |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 3 | U | - | - | 1 | U | 0.5 | U | 2 | J | 0.5 | U | 1 | U | 2 | J | 0.5 | U | 3 | J | 3 | J | 8260B |
| | 8/12-14/02 | 0.5 | U | 10 | U | 3 | J | - | - | 1 | U | 10 | U | 10 | U | 1 | U | 0.5 | U | 10 | U | 0.5 | U | 2 | J | 2 | J | CLP/8260B |
| | 1/21-22/03 | - | - | 10 | U | 0.8 | J | - | - | - | - | - | - | 3 | J | - | - | - | - | 2 | J | - | - | - | - | 3 | J | CLP |
| | 7/14-15/03 | 1 | U | 17 | U | 4 | U | - | - | - | - | 1 | U | 1 | U | 4.2 | U | 1 | UJ | 1 | U | 1 | UJ | 1 | U | 1 | U | 8260B |
| | 3/16-17/04 | - | - | 10 | U | 10 | U | - | - | - | - | 10 | U | 10 | U | - | - | - | - | 10 | U | - | - | - | - | 10 | U | CLP |
| | 9/29-30/04 | 0.5 | U | 0.5 | U | 0.46 | J | - | - | - | - | 0.5 | U | 3.8 | J | 0.84 | U | 0.33 | J | 0.68 | J | 0.5 | U | 0.22 | J | 0.22 | J | 8260B |
| | 3/30-31/05 | - | - | 67 | U | 10 | U | - | - | - | - | 10 | U | 10 | U | - | - | - | - | 10 | U | - | - | 10 | U | 10 | U | CLP |
| | 10/3-4/05 | - | - | 25 | U | 0.62 | J | - | - | - | - | 0.5 | U | 4.1 | J | 0.5 | U | 0.29 | J | 0.61 | J | 0.5 | U | 0.5 | U | 0.5 | U | 8260B |
| | 4/4-5/06 | - | - | 10 | U | 10 | U | - | - | - | - | 10 | U | 3 | J | - | - | - | - | 10 | U | - | - | 10 | U | 10 | U | CLP |
| | 9/27-28/06 | 0.50 | U | 0.50 | U | 2.5 | U | - | - | - | - | 0.50 | U | 1.6 | J | 0.50 | U | 0.27 | J | 0.36 | J | 0.50 | U | 0.50 | U | 0.50 | U | 8260B |
| | 4/2-3/07 | - | - | 13 | U | 10 | U | - | - | - | - | 0.50 | U | 2.8 | J | - | - | - | - | 2.5 | U | - | - | - | - | 0.50 | U | 8260B |
| | 9/18-19/07 | 0.50 | U | 0.50 | U | 0.34 | J | - | - | - | - | 0.50 | U | 3.1 | J | 0.50 | U | 0.31 | J | 0.38 | J | 0.50 | U | 0.50 | U | 0.50 | U | 8260B |
| | 3/11/08 | - | - | 10 | UJ | 0.50 | UJ | - | - | - | - | 0.50 | UJ | 2.5 | J | - | - | - | - | 0.50 | UJ | - | - | 0.50 | UJ | 0.50 | UJ | 8260B |
| 9/8-9/08 | 0.50 | U | 8.3 | U | 0.50 | U | - | - | - | - | 0.50 | U | 3.1 | J | 0.50 | U | 0.29 | J | 0.36 | J | 0.50 | U | 0.50 | U | 0.50 | U | 8260B | |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | Analysis Type | | | | | | | | | | |
|---|------------|-------------------|------|------|-----|------|---|------|---|------|------|------|-----|-------|------|---------------|-------|------|-------|-------|-------|------|-------|-------|-------|-----------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | | MW-10 | | MW-11 | | MW-12 | | MW-15 | | MW-17 | |
| Chloroethane no MCL or NCS established | 6/20/94 | 10 | U | 120 | U | 6 | J | 8 | J | 7.33 | J | 9.44 | J | 56.78 | J | 9.29 | U | 1.16 | J | 20.23 | J | 9.29 | U | 28.21 | J | CLP/8021 |
| | 9/27/94 | 10 | U | 170 | U | 8 | J | 10 | J | 16 | J | 7 | J | 18 | J | 10 | U | 10 | U | 5 | J | 10 | U | 7 | J | CLP |
| | 2/06/95 | 10 | U | 150 | U | 7 | J | 11 | J | 28 | J | 7 | J | 17 | J | 50 | U | 10 | U | 4 | J | 1 | U | 5 | J | CLP |
| | 4/11/95 | 10 | U | 200 | U | 6 | J | 8 | J | 16 | J | 7 | J | 15 | J | 71 | U | 10 | U | 2 | J | 10 | U | 4 | J | CLP |
| | 7/10/95 | 2 | U | 2 | U | 10 | U | 15 | U | 9.2 | J | 10 | U | 20 | U | 2 | U | 5 | U | 10 | U | 5 | U | 5 | U | 8021 |
| | 7/10/95 | 5 | U | 5 | U | 8.7 | J | 16 | J | 22 | J | 9.3 | J | 21 | J | 5 | U | 5 | U | 6.4 | J | - | - | 4.9 | J | 8260 |
| | 4/10/96 | 10 | U | 91 | U | 8 | J | 14 | J | 41 | J | 10 | J | 16 | J | 23 | U | 10 | U | 5 | J | 10 | U | 5 | J | CLP |
| | 4/8/97 | 1 | U | 1 | U | 46 | J | - | - | 58 | J | 38 | J | 110 | J | 1 | U | 12 | J | 40 | J | 1 | U | 30 | J | 8021 |
| | 1/15/98 | 10 | U | 20 | U | 10 | J | - | - | 19 | J | 12 | J | 12 | J | 20 | U | 10 | U | 5 | J | 10 | U | 9 | J | CLP |
| | 6/23/98 | - | | 25 | UJ | 5 | J | - | - | - | J | 11 | J | 8 | J | - | - | - | - | 5 | J | - | - | 6 | J | CLP |
| | 1/12/99 | 2 | U | 2 | U | 100 | U | - | - | 43 | J | 40 | U | 60 | U | 2 | U | 25 | J | 50 | U | 2 | U | 40 | U | 8021B |
| | 7/12/99 | - | | 10 | U | 8 | J | - | - | - | J | 10 | U | 10 | U | - | - | - | - | 10 | U | - | - | 7 | J | CLP |
| | 2/1/00 | 2 | U | 2 | U | 40 | U | - | - | 34 | J | 40 | U | 40 | U | 2 | U | 28 | J | 50 | U | 2 | U | 40 | U | 8021B |
| | 8/8/00 | - | | 10 | U | 13 | J | - | - | - | J | 16 | J | 8 | J | - | - | - | - | 7 | J | - | - | 7 | J | CLP |
| | 2/12-14/01 | 2 | U | 2 | U | 60 | U | - | - | 44 | J | 40 | U | 40 | U | 2 | U | 34 | J | 40 | U | 2 | U | 60 | U | 8021B |
| | 8/7-8/01 | - | | 10 | UJ | 6 | J | - | - | - | J | 28 | J | 5 | J | - | - | - | - | 8 | J | - | - | 14 | J | CLP |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 8 | J | - | - | 23 | J | 4 | J | 3 | J | 0.5 | U | 7 | J | 8 | J | 0.5 | U | 10 | J | 8260B |
| | 8/12-14/02 | 0.5 | U | 10 | U | 21 | J | - | - | 18 | J | 38 | J | 10 | U | 1 | U | 0.5 | U | 17 | J | 0.5 | U | 17 | J | CLP/8260B |
| | 1/21-22/03 | - | | 10 | U | 4 | J | - | - | - | J | 4 | J | - | - | - | - | - | - | 4 | J | - | - | 7 | J | CLP |
| | 7/14-15/03 | 1 | U | 17 | U | 4 | J | - | - | 1 | U | 1 | U | 4.2 | U | 5.6 | J | 1 | U | 1 | UJ | 2.9 | J | 2.9 | J | 8260B |
| | 3/16-17/04 | - | | 10 | U | 20 | J | - | - | - | J | 17 | J | 9 | J | - | - | - | - | 10 | U | - | - | 10 | U | CLP |
| | 9/29-30/04 | 0.5 | U | 0.44 | J | 7.8 | J | - | - | - | J | 0.5 | U | 6.3 | J | 0.84 | U | 6.6 | J | 6.2 | J | 0.5 | U | 5.3 | J | 8260B |
| | 3/30-31/05 | - | | 67 | U | 10 | U | - | - | - | J | 10 | U | 3 | J | - | - | - | - | 10 | U | - | - | 10 | U | CLP |
| | 10/3-4/05 | - | | 25 | U | 10 | J | - | - | - | J | 0.5 | U | 6.6 | J | 0.5 | U | 7 | J | 9.7 | J | 0.5 | U | 0.89 | J | 8260B |
| | 4/4-5/06 | - | | 10 | U | 11 | J | - | - | - | J | 11 | J | 7 | J | - | - | - | - | 12 | J | - | - | 10 | U | CLP |
| | 9/27-28/06 | 0.50 | U | 0.39 | J | 8.7 | J | - | - | - | J | 0.50 | U | 2.9 | J | 0.50 | U | 7.5 | J | 4.9 | J | 0.50 | U | 0.71 | J | 8260B |
| | 4/2-3/07 | - | | 13 | U | 11 | J | - | - | - | J | 1.5 | J | 6.5 | J | - | - | - | - | 12 | J | - | - | 0.50 | U | 8260B |
| 9/18-19/07 | 0.50 | U | 0.39 | J | 7.8 | J | - | - | - | J | 1.2 | J | 5.8 | J | 0.50 | U | 8.7 | J | 9.4 | J | 0.50 | U | 0.7 | J | 8260B | |
| 3/11/08 | - | | 10 | U | 1.5 | J | - | - | - | J | 0.50 | U | 5.1 | J | - | - | - | - | 11 | J | - | - | 0.9 | J | 8260B | |
| 9/8-9/08 | 0.50 | U | 8.3 | U | 1.2 | J | - | - | - | J | 0.50 | U | 4.9 | J | 0.50 | U | 7.3 | J | 9.4 | J | 0.50 | U | 0.9 | J | 8260B | |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | Analysis Type | | | | | | | | | | | | |
|--|------------|-------------------|----|------|----|------|----|------|----|-------|----|------|----|-------|----|---------------|-------|------|-------|------|-------|-------|-------|------|-------|-----------|---|-------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | | MW-10 | | MW-11 | | MW-12 | | MW-15 | | MW-17 | | | |
| Dichlorodifluoromethane no MCL established NCS = 0.19 ug/l | 6/20/94 | 10 | U | 120 | U | 7 | J | 25 | U | 46.64 | U | 2.26 | J | 13.92 | J | 46.64 | U | 1.88 | J | 9.83 | J | 46.64 | U | 1.44 | J | CLP/8021 | | |
| | 9/27/94 | 10 | U | 10 | J | 4 | J | 25 | U | 10 | U | 2 | J | 9 | J | 10 | U | 10 | U | 4 | J | 10 | U | 4 | J | CLP | | |
| | 2/06/95 | 10 | U | 150 | U | 10 | U | 25 | U | 1 | U | 14 | | 27 | | 50 | U | 2 | J | 10 | U | 1 | U | 12 | | CLP | | |
| | 4/11/95 | 10 | U | 200 | U | 10 | U | 25 | U | 10 | U | 7 | J | 9 | J | 71 | U | 10 | U | 4 | J | 10 | UJ | 3 | J | CLP | | |
| | 7/10/95 | 2 | UJ | 2 | UJ | 6.9 | J | 2 | UJ | 2 | UJ | 16 | J | 2 | UJ | 2 | UJ | 2 | UJ | 5.7 | J | 10 | U | 5.3 | J | 8021 | | |
| | 7/10/95 | 5 | U | 5 | U | 7.2 | | 2.2 | J | 5 | U | 6.7 | | 2.8 | J | 5 | U | 1.7 | J | 4 | J | - | | 4.2 | J | 8260 | | |
| | 4/10/96 | 10 | U | 91 | U | 10 | U | 25 | U | 10 | U | 10 | U | 10 | U | 23 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP |
| | 4/8/97 | 1 | U | 1 | U | 6.4 | | - | | 1 | U | 17 | | 11 | | 1 | U | 3 | | 10 | | 1 | U | 1 | U | 8021 | | |
| | 1/15/98 | 10 | U | 20 | U | 11 | | - | | 10 | U | 12 | | 10 | U | 14 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP |
| | 6/23/98 | - | | 25 | UJ | 3 | J | - | | - | | 10 | UJ | 10 | UJ | - | | - | | 3 | J | - | | 10 | UJ | CLP | | |
| | 1/12/99 | 1 | U | 1 | U | 1 | U | - | | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021B |
| | 7/12/99 | - | | 10 | U | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | 10 | U | 10 | U | CLP |
| | 2/1/00 | 1 | U | 1 | U | 3 | | - | | 1.3 | | 8.1 | | 3.7 | | 1 | U | 3 | | 4.8 | | 1 | U | 3.9 | | 8021B | | |
| | 8/8/00 | - | | 10 | U | 3 | J | - | | - | | 2 | J | 1 | J | - | | - | | 3 | J | - | | 1 | J | CLP | | |
| | 2/12-14/01 | 1 | U | 1 | U | 3.9 | | - | | 1 | U | 1 | U | 6.6 | | 1 | U | 3 | | 2.8 | | 1 | U | 2.5 | | 8021B | | |
| | 8/7-8/01 | - | | 10 | UJ | 3 | J | - | | - | | 8 | J | 4 | J | - | | - | | 7 | J | - | | 9 | J | CLP | | |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 4 | | - | | 2 | | 0.5 | U | 1 | | 0.5 | U | 3 | | 4 | | 0.5 | UJ | 6 | | 8260B | | |
| | 8/12-14/02 | 0.5 | UJ | 10 | U | 10 | U | - | | 1 | U | 10 | U | 10 | U | 1 | U | 0.5 | UJ | 10 | U | 0.5 | UJ | 10 | U | CLP/8260B | | |
| | 1/21-22/03 | - | | 10 | U | 10 | U | - | | - | | - | | 0.5 | J | - | | - | | 0.9 | J | - | | 0.9 | J | CLP | | |
| | 7/14-15/03 | 1 | U | 17 | U | 4 | U | - | | - | | 1 | U | 1 | U | 4.2 | U | 1 | UJ | 1 | U | 1 | UJ | 1 | U | 8260B | | |
| | 3/16-17/04 | - | | 10 | U | 10 | U | - | | - | | 10 | U | 3 | J | - | | - | | 10 | U | - | | 3 | J | CLP | | |
| | 9/29-30/04 | 0.5 | U | 0.15 | J | 0.5 | U | - | | - | | 0.5 | U | 3.3 | J | 0.84 | U | 0.76 | J | 1.1 | | 0.5 | U | 0.6 | J | 8260B | | |
| | 3/30-31/05 | - | | 67 | UJ | 10 | UJ | - | | - | | 10 | UJ | 0.8 | J | - | | - | | 10 | UJ | - | | 10 | U | CLP | | |
| | 10/3-4/05 | - | | 25 | U | 3.2 | U | - | | - | | 0.5 | UJ | 1.2 | J | 0.5 | UJ | 1 | UJ | 0.31 | J | 0.5 | UJ | 0.18 | J | 8260B | | |
| | 4/4-5/06 | - | | 10 | U | 10 | U | - | | - | | 10 | U | 2 | J | - | | - | | 10 | U | - | | 10 | U | CLP | | |
| | 9/27-28/06 | 0.50 | U | 0.50 | U | 2.5 | U | - | | - | | 0.50 | U | 0.44 | J | 0.50 | U | 0.50 | U | 1.6 | U | 0.50 | U | 0.50 | U | 8260B | | |
| | 4/2-3/07 | - | | 13 | U | 10 | U | - | | - | | 0.50 | U | 0.7 | J | - | | - | | 2.5 | U | - | | 0.50 | U | 8260B | | |
| | 9/18-19/07 | 0.50 | U | 0.50 | U | 2.5 | U | - | | - | | 0.50 | U | 0.73 | J | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 8260B |
| | 3/11/08 | - | | 10 | U | 0.50 | U | - | | - | | 0.50 | U | 0.5 | J | - | | - | | 2.5 | U | - | | 0.50 | U | 8260B | | |
| | 9/8-9/08 | 0.50 | U | 8.3 | U | 0.50 | U | - | | - | | 0.50 | U | 0.58 | J | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 8260B |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | Analysis Type | | | | | | | | | | |
|--|------------|-------------------|----|------|-----|------|---|------|---|-------|------|-------|----|-------|-----|---------------|-------|-------|-------|-------|-------|------|-------|--------|-------|-----------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | | MW-10 | | MW-11 | | MW-12 | | MW-15 | | MW-17 | |
| 1,1-Dichloroethane no MCL established NCS = 700 ug/l | 6/20/94 | 10 | U | 75 | J | 160 | | 97 | | 10.42 | J | 35.33 | J | 13.63 | J | 28.62 | J | 25.23 | J | 82.77 | J | 0.26 | J | 105.03 | J | CLP/8021 |
| | 9/27/94 | 10 | U | 110 | J | 200 | | 110 | | 1 | J | 70 | | 23 | | 84 | | 27 | | 130 | | 10 | U | 230 | | CLP |
| | 2/06/95 | 10 | U | 160 | | 180 | | 140 | | 2.9 | | 74 | | 30 | | 37 | J | 28 | | 120 | | 1 | U | 170 | | CLP |
| | 4/11/95 | 10 | U | 98 | J | 130 | | 94 | | 4 | J | 58 | | 35 | | 67 | J | 18 | | 77 | | 10 | U | 130 | | CLP |
| | 7/10/95 | 2 | U | 81 | | 130 | | 100 | J | 4.8 | | 60 | J | 36 | | 58 | J | 22 | | 100 | | 10 | U | 102 | J | 8021 |
| | 7/10/95 | 5 | U | 94 | | 160 | | 130 | | 6.8 | | 71 | | 40 | | 55 | | 26 | | 120 | | - | | 130 | | 8260 |
| | 4/10/96 | 10 | U | 130 | | 150 | | 120 | | 5 | J | 80 | | 36 | | 22 | J | 26 | | 120 | | 10 | U | 130 | | CLP |
| | 4/8/97 | 1 | U | 84 | | 90 | | - | | 9.4 | | 52 | | 28 | | 27 | | 26 | | 82 | | 1 | U | 76 | | 8021 |
| | 1/15/98 | 10 | U | 29 | | 97 | | - | | 13 | | 55 | | 27 | | 11 | J | 30 | | 82 | | 10 | U | 88 | | CLP |
| | 6/23/98 | - | | 100 | J | 67 | J | - | | - | | 48 | J | 24 | J | - | | - | | 66 | J | - | | 10 | UJ | CLP |
| | 1/12/99 | 1 | U | 36 | | 92 | | - | | 13 | | 35 | | 22 | | 16 | | 27 | | 70 | | 1 | U | 65 | | 8021B |
| | 7/12/99 | - | | 24 | | 72 | | - | | - | | 47 | | 20 | | - | | - | | 10 | U | - | | 71 | | CLP |
| | 2/1/00 | 1 | U | 12 | | 78 | | - | | 14 | | 37 | | 19 | | 15 | | 37 | | 74 | | 0.86 | J | 90 | | 8021B |
| | 8/8/00 | - | | 28 | | 73 | | - | | - | | 33 | | 19 | | - | | - | | 58 | | - | | 59 | | CLP |
| | 2/12-14/01 | 1 | U | 11 | | 100 | | - | | 12 | | 1 | U | 23 | | 27 | | 34 | | 70 | | 0.56 | J | 95 | | 8021B |
| | 8/7-8/01 | - | | 8 | J | 32 | | - | | - | | 46 | | 15 | | - | | - | | 47 | | - | | 81 | | CLP |
| | 2/11-14/02 | 0.5 | U | 5 | | 51 | | - | | 12 | | 16 | | 0.5 | U | 10 | | 38 | | 61 | | 0.5 | U | 85 | | 8260B |
| | 8/12-14/02 | 0.5 | U | 14 | | 58 | | - | | 16 | | 42 | | 13 | | 7 | | 0.5 | U | 47 | | 0.5 | U | 53 | | CLP/8260B |
| | 1/21-22/03 | - | | 18 | | 29 | | - | | - | | - | | 13 | | - | | - | | 42 | | - | | 59 | | CLP |
| | 7/14-15/03 | 1 | U | 53 | | 28 | | - | | - | | 1 | U | 1 | U | 8.2 | | 30 | J | 1 | U | 1 | UJ | 11 | | 8260B |
| | 3/16-17/04 | - | | 100 | | 33 | | - | | - | | 36 | | 45 | | - | | - | | 18 | | - | | 21 | | CLP |
| | 9/29-30/04 | 0.5 | U | 92 | J | 29 | J | - | | - | | 0.17 | J | 25 | J | 7.4 | J | 24 | J | 34 | J | 0.32 | J | 15 | J | 8260B |
| | 3/30-31/05 | - | | 110 | | 28 | | - | | - | | 10 | U | 19 | | - | | - | | 32 | | - | | 7 | J | CLP |
| | 10/3-4/05 | - | | 110 | | 30 | | - | | - | | 0.21 | J | 25 | | 21 | | 21 | | 33 | | 0.19 | J | 6.4 | J | 8260B |
| | 4/4-5/06 | - | | 85 | | 38 | | - | | - | | 11 | | 20 | | - | | - | | 34 | | - | | 5 | J | CLP |
| | 9/27-28/06 | 0.50 | U | 46 | | 17 | | - | | - | | 0.50 | U | 6.3 | | 3.3 | | 21 | | 20 | | 0.50 | U | 3.2 | | 8260B |
| 4/2-3/07 | - | | 67 | J | 38 | | - | | - | | 1.1 | J | 16 | J | - | | - | | 33 | J | - | | 5 | J | 8260B | |
| 9/18-19/07 | 0.50 | U | 74 | | 24 | | - | | - | | 0.76 | | 16 | | 4.5 | | 28 | | 32 | | 0.11 | J | 3.8 | | 8260B | |
| 3/11/08 | - | | 56 | | 8.5 | | - | | - | | 0.50 | U | 15 | | - | | - | | 30 | | - | | 3.7 | | 8260B | |
| 9/8-9/08 | 0.50 | U | 42 | | 12 | | - | | - | | 0.39 | J | 15 | | 13 | | 21 | | 24 | | 0.26 | J | 2.9 | | 8260B | |

Watauga County Landfill

Watauga County, North Carolina

Upgradient Well: MW-1

04/29/09

Table 5A

Background Assessment Organic Target Parameter Analytical Results

1994-2008

Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | | Analysis Type | | | | | | | | | |
|---|------------|-------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|-----|-------|---------------|------|------|------|------|------|------|------|-------|-----------|
| | | MW-1 | MW-2 | MW-3 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | MW-15 | MW-17 | | | | | | | | | | | | | |
| 1,1-Dichloroethene MCL= 7 ug/l NCS = 7 ug/l | 6/20/94 | 10 | U | 160 | | 5 | J | 25 | U | 9.75 | U | 0.3 | J | 9.75 | U | 32.29 | | 9.75 | U | 1.15 | J | 9.75 | U | 1.09 | J | CLP/8021 |
| | 9/27/94 | 10 | U | 210 | | 6 | J | 25 | U | 10 | U | 4 | J | 10 | U | 160 | | 10 | U | 5 | J | 10 | U | 3 | J | CLP |
| | 2/06/95 | 10 | U | 360 | | 6 | J | 25 | U | 1 | U | 6 | J | 10 | U | 100 | | 10 | U | 4 | J | 1 | U | 3 | J | CLP |
| | 4/11/95 | 10 | U | 150 | J | 3 | J | 25 | U | 10 | U | 3 | J | 10 | U | 120 | | 10 | U | 2 | J | 10 | U | 1 | J | CLP |
| | 7/10/95 | 2 | U | 170 | | 4 | | 2 | U | 2 | U | 5.7 | | 2 | U | 160 | J | 0.86 | J | 3.9 | | 10 | U | 1.8 | J | 8021 |
| | 7/10/95 | 5 | U | 170 | J | 3.7 | J | 1.3 | J | 5 | U | 4.1 | J | 5 | U | 88 | | 5 | U | 3.6 | J | - | | 1.6 | J | 8260 |
| | 4/10/96 | 10 | U | 210 | | 3 | J | 25 | U | 10 | U | 6 | J | 10 | U | 51 | | 10 | U | 3 | J | 10 | U | 2 | J | CLP |
| | 4/8/97 | 1 | U | 180 | | 1.9 | | - | | 1 | U | 4.9 | | 0.54 | J | 84 | | 1.1 | | 2.7 | | 0.77 | J | 1.2 | | 8021 |
| | 1/15/98 | 10 | U | 50 | | 2 | J | - | | 10 | U | 3 | J | 10 | U | 20 | | 10 | U | 2 | J | 10 | U | 1 | J | CLP |
| | 6/23/98 | - | | 160 | J | 10 | UJ | - | | - | | 2 | J | 10 | UJ | - | | - | | 2 | J | - | | 1 | J | CLP |
| | 1/12/99 | 1 | U | 77 | | 1.9 | | - | | 1 | U | 3.2 | | 1 | U | 26 | | 1.2 | | 1.9 | | 1 | U | 1 | U | 8021B |
| | 7/12/99 | - | | 47 | | 1 | J | - | | - | | 2 | J | 10 | U | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 2/1/00 | 1 | U | 26 | | 1.2 | | - | | 1 | U | 2.4 | | 1 | U | 31 | | 1.4 | | 1.6 | | 0.96 | J | 1.2 | | 8021B |
| | 8/8/00 | - | | 56 | | 1 | J | - | | - | | 2 | J | 10 | U | - | | - | | 1 | J | - | | 10 | U | CLP |
| | 2/12-14/01 | 1 | U | 19 | | 1.3 | | - | | 1 | U | 1 | U | 1 | U | 63 | | 1.2 | | 1.3 | | 0.61 | J | 1.4 | | 8021B |
| | 8/7-8/01 | - | | 14 | | 10 | U | - | | - | | 2 | J | 10 | U | - | | - | | 10 | U | - | | 0.8 | J | CLP |
| | 2/11-14/02 | 0.5 | U | 9 | | 3 | U | - | | 0.8 | | 0.8 | | 12 | | 16 | | 0.8 | | 0.9 | | 0.5 | U | 0.8 | | 8260B |
| | 8/12-14/02 | 0.5 | U | 22 | | 10 | U | - | | 1 | U | 10 | U | 10 | U | 7 | | 0.5 | U | 10 | U | 0.5 | U | 10 | U | CLP/8260B |
| | 1/21-22/03 | - | | 32 | | 0.3 | J | - | | - | | - | | 10 | U | - | | - | | 0.8 | J | - | | 0.8 | J | CLP |
| | 7/14-15/03 | 1 | U | 79 | | 4 | U | - | | - | | 1 | U | 1 | U | 15 | | 1 | UJ | 1 | U | 1 | UJ | 1 | UJ | 8260B |
| | 3/16-17/04 | - | | 150 | | 10 | U | - | | - | | 1 | J | 10 | U | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 9/29-30/04 | 0.5 | U | 180 | J | 0.5 | U | - | | - | | 0.48 | J | 0.28 | J | 11 | | 0.86 | J | 1.4 | | 0.43 | J | 0.32 | J | 8260B |
| | 3/30-31/05 | - | | 150 | | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 10/3-4/05 | - | | 160 | | 0.52 | | - | | - | | 0.5 | U | 0.5 | U | 26 | | 0.6 | J | 0.7 | | 0.2 | J | 0.5 | U | 8260B |
| | 4/4-5/06 | - | | 110 | | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 9/27-28/06 | 0.50 | U | 75 | | 2.5 | U | - | | - | | 0.50 | U | 0.50 | U | 5.9 | | 0.45 | J | 0.36 | J | 0.27 | J | 0.50 | U | 8260B |
| 4/2-3/07 | - | | 75 | | 10 | U | - | | - | | 0.50 | U | 0.50 | U | - | | - | | 2.5 | U | - | | 0.50 | U | 8260B | |
| 9/18-19/07 | 0.50 | U | 130 | | 0.26 | J | - | | - | | 0.50 | U | 0.50 | U | 4.2 | | 0.46 | J | 0.52 | | 0.50 | U | 0.50 | U | 8260B | |
| 3/11/08 | - | | 83 | | 0.50 | U | - | | - | | 0.50 | U | 0.50 | U | - | | - | | 0.4 | J | - | | 0.50 | U | 8260B | |
| 9/8-9/08 | 0.50 | U | 61 | | 0.50 | U | - | | - | | 0.50 | U | 0.50 | U | 20 | | 0.30 | J | 0.35 | | 0.50 | U | 0.50 | U | 8260B | |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | | Analysis Type | | | | | | | | | |
|---|------------|-------------------|------|------|----|------|---|------|---|------|------|------|-----|------|------|-------|---------------|------|-------|-------|-------|------|-------|-------|-------|-----------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | MW-10 | | | MW-11 | | MW-12 | | MW-15 | | MW-17 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| cis 1,2-Dichloroethene (2) MCL= 70 ug/l NCS = 70 ug/l | 5/20/94 | 10 | U | 120 | U | 37 | | 330 | | 0.97 | J | 28.9 | | 0.95 | J | 9.49 | U | 5.05 | J | 28.13 | | 9.49 | U | 60.79 | J | CLP/8021 |
| | 9/27/94 | 10 | U | 170 | U | 61 | | 380 | | 3 | J | 93 | | 2 | J | 10 | U | 8 | J | 47 | | 10 | U | 120 | | CLP |
| | 2/06/95 | 10 | U | 150 | U | 54 | | 370 | | 7.2 | | 91 | | 2 | J | 50 | U | 8 | J | 37 | | 1 | U | 80 | | CLP |
| | 4/11/95 | 10 | U | 200 | U | 44 | | 330 | | 9 | J | 100 | | 4 | J | 71 | U | 6 | J | 30 | | 10 | U | 70 | | CLP |
| | 7/10/95 | 2 | U | 2 | U | 65 | | 440 | J | 4.4 | | 110 | J | 7.4 | | 2 | U | 11 | | 37 | | 10 | U | 72 | J | 8021 |
| | 7/10/95 | 5 | U | 5 | U | 50 | | 430 | | 7.9 | | 89 | | 6.2 | | 5 | U | 7.6 | | 42 | | - | | 63 | | 8260 |
| | 4/10/96 | 10 | U | 91 | U | 64 | | 420 | | 6 | J | 78 | | 11 | | 23 | U | 11 | | 54 | | 10 | U | 87 | | CLP |
| | 4/8/97 | 1 | U | 1 | U | 58 | | - | | 4.4 | | 34 | | 13 | | 1 | U | 17 | | 60 | | 1 | U | 100 | | 8021 |
| | 1/15/98 | 10 | U | 20 | U | 62 | | - | | 11 | | 29 | | 14 | | 14 | U | 18 | | 56 | | 10 | U | 87 | | CLP |
| | 6/23/98 | - | | 25 | UJ | 50 | J | - | | - | | 43 | J | 12 | J | - | | - | | 52 | J | - | | 79 | J | CLP |
| | 1/12/99 | 1 | U | 1 | U | 90 | | - | | 7.1 | | 20 | | 14 | | 1 | U | 19 | | 63 | | 1 | U | 89 | | 8021B |
| | 7/12/99 | - | | 10 | U | 69 | | - | | - | | 21 | | 12 | | - | | - | | 10 | U | - | | 88 | | CLP |
| | 2/1/00 | 1 | U | 1 | U | 97 | | - | | 5.6 | | 13 | | 15 | | 1 | U | 39 | | 77 | | 1 | U | 120 | | 8021B |
| | 8/8/00 | - | | 10 | U | 120 | | - | | - | | 13 | | 16 | | - | | - | | 69 | | - | | 90 | | CLP |
| | 2/12-14/01 | 1 | U | 1 | U | 170 | | - | | 3.8 | | 1 | U | 22 | | 1 | U | 52 | | 97 | | 1 | U | 160 | | 8021B |
| | 8/7-8/01 | - | | 10 | U | 59 | | - | | - | | 13 | | 14 | | - | | - | | 83 | | - | | 180 | | CLP |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 89 | | - | | 6 | | 6 | | 10 | | 0.5 | U | 50 | | 86 | | 0.5 | U | 160 | | 8260B |
| | 8/12-14/02 | 0.5 | U | 10 | U | 110 | | - | | 5 | | 9 | J | 11 | | 1 | U | 0.5 | U | 75 | | 0.5 | U | 110 | | CLP/8260B |
| | 1/21-22/03 | - | | 10 | U | 62 | | - | | - | | - | | 13 | | - | | - | | 80 | | - | | 150 | | CLP |
| | 7/14-15/03 | 1 | U | 17 | U | 66 | | - | | - | | 1 | U | 1 | U | 4.2 | U | 35 | J | 1 | U | U | UJ | 21 | | 8260B |
| | 3/16-17/04 | - | | 10 | U | 11 | | - | | - | | 17 | | 59 | | - | | - | | 10 | | - | | 48 | | CLP |
| | 9/29-30/04 | 0.16 | J | 0.37 | J | 64 | J | - | | - | | 0.5 | U | 16 | J | 0.84 | U | 25 | J | 61 | J | 0.16 | J | 37 | | 8260B |
| | 3/30-31/05 | - | | 67 | U | 82 | | - | | - | | 10 | U | 12 | | - | | - | | 63 | | - | | 17 | | CLP |
| | 10/3-4/05 | - | | 25 | U | 73 | | - | | - | | 0.27 | J | 15 | | 0.5 | U | 24 | | 56 | | 0.5 | U | 13 | J | 8260B |
| | 4/4-5/06 | - | | 10 | U | 98 | | - | | - | | 6 | J | 11 | | - | | - | | 61 | | - | | 11 | | CLP |
| | 9/27-28/06 | 0.50 | U | 0.25 | J | 59 | | - | | - | | 0.50 | U | 5.3 | | 0.50 | U | 18 | | 43 | | 0.50 | U | 11 | | 8260B |
| | 4/2-3/07 | - | | 13 | U | 98 | | - | | - | | 1.1 | | 9.1 | | - | | - | | 59 | | - | | 11 | | 8260B |
| 9/18-19/07 | 0.50 | U | 0.25 | J | 75 | | - | | - | | 0.47 | J | 11 | | 0.50 | U | 39 | | 69 | | 0.50 | U | 9 | | 8260B | |
| 3/11/08 | - | | 10 | U | 23 | | - | | - | | 0.50 | U | 9.2 | | - | | - | | 66 | | - | | 9.9 | | 8260B | |
| 9/8-9/08 | 0.50 | U | 8.3 | U | 34 | | - | | - | | 0.22 | J | 9.4 | | 0.50 | U | 37 | | 52 | | 0.50 | U | 7 | | 8260B | |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | | | Analysis Type | | | | | | | | | | |
|---|------------|-------------------|----|------|----|------|----|------|---|------|----|------|----|-------|----|-------|----|---------------|-------|------|-------|-------|-------|------|-------|----------|-------|-----------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | MW-10 | | | MW-11 | | MW-12 | | MW-15 | | MW-17 | | | |
| Methylene Chloride MCL= 5 ug/l NCS = 5 ug/l | 6/20/94 | 8 | J | 120 | U | 6 | J | 11 | J | 36.2 | UJ | 36.2 | UJ | 140.1 | J | 36.2 | UJ | 36.2 | UJ | 8.58 | J | 36.2 | UJ | 36.2 | UJ | CLP/8021 | | |
| | 9/27/94 | 10 | U | 490 | | 14 | U | 25 | U | 10 | U | 4 | J | 73 | | 180 | | 10 | U | 28 | U | 10 | U | 58 | U | CLP | | |
| | 2/06/95 | 10 | U | 150 | U | 10 | U | 25 | U | 1.5 | | 10 | U | 93 | | 50 | U | 10 | U | 10 | U | 1 | U | 10 | U | CLP | | |
| | 4/11/95 | 10 | U | 200 | U | 10 | U | 25 | U | 10 | U | 10 | U | 120 | | 71 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | | |
| | 7/10/95 | 2 | U | 2 | U | 2.4 | | 1.2 | J | 2 | U | 4.7 | | 89 | | 2 | U | 2.9 | | 3.3 | | 10 | U | 2.2 | | 8021 | | |
| | 7/10/95 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 160 | | 5 | U | 5 | U | 5.9 | U | - | | 5 | U | 8260 | | |
| | 4/10/96 | 10 | U | 91 | U | 10 | U | 25 | U | 10 | U | 10 | U | 120 | | 23 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | | |
| | 4/8/97 | 1 | U | 1 | U | 0.71 | J | - | | 1.4 | | 1.6 | | 100 | | 1 | U | 0.7 | J | 1.1 | | 0.656 | J | 0.63 | J | 8021 | | |
| | 1/15/98 | 1 | J | 20 | U | 2 | J | - | | 2 | J | 3 | J | 90 | | 4 | J | 1 | J | 2 | J | - | 1 | J | 2 | J | CLP | |
| | 6/23/98 | - | | 25 | UJ | 10 | UJ | - | | - | | 10 | UJ | 10 | UJ | - | | - | | 10 | UJ | - | | - | 10 | UJ | CLP | |
| | 1/12/99 | 1 | U | 1 | U | 1 | U | - | | 1 | U | 1.8 | | 2.3 | | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021B |
| | 7/12/99 | - | | 10 | UJ | 10 | UJ | - | | - | | 10 | UJ | 10 | UJ | - | | - | | 10 | UJ | - | | - | 10 | UJ | CLP | |
| | 2/1/00 | 1 | J | 1 | U | 0.76 | J | - | | 0.7 | J | 1.5 | | 1 | U | 1 | U | 1 | | 0.82 | J | 1 | U | 0.98 | J | 8021B | | |
| | 8/8/00 | - | | 10 | UJ | 10 | UJ | - | | - | | 10 | UJ | 10 | UJ | - | | - | | 10 | UJ | - | | - | 10 | UJ | CLP | |
| | 2/12-14/01 | 1 | J | 1 | U | 0.71 | J | - | | 0.7 | J | 1 | U | 1 | U | 1 | U | 0.93 | J | 0.54 | J | 1 | U | 1 | U | 1.4 | | 8021B |
| | 8/7-8/01 | - | | 2 | J | 2 | J | - | | - | | 3 | J | 10 | U | - | | - | | 10 | U | - | | - | 10 | U | CLP | |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 3 | U | - | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.7 | J | 0.5 | J | 0.5 | U | 0.5 | U | 0.8 | J | 8260B |
| | 8/12-14/02 | 0.5 | UJ | 10 | U | 10 | U | - | | 1 | UJ | 10 | U | 10 | U | 1 | UJ | 0.5 | UJ | 10 | U | 0.5 | UJ | 10 | U | 10 | U | CLP/8260B |
| | 1/21-22/03 | - | | 10 | U | 10 | U | - | | - | | - | | 10 | U | - | | - | | 10 | U | - | | - | 10 | U | CLP | |
| | 7/14-15/03 | 1 | U | 17 | U | 4 | U | - | | - | | 1 | U | 1 | U | 4.2 | U | 1 | UJ | 1 | U | 1 | UJ | 1 | U | 1 | U | 8260B |
| | 3/16-17/04 | - | | 10 | U | 10 | U | - | | - | | - | | 10 | U | - | | - | | 10 | U | - | | - | 10 | U | CLP | |
| | 9/29-30/04 | 0.5 | U | 0.65 | U | 0.88 | U | - | | - | | 0.5 | U | 0.5 | U | 0.5 | U | 0.55 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B |
| | 3/30-31/05 | - | | 67 | U | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | - | 10 | U | CLP | |
| | 10/3-4/05 | - | | 25 | U | 0.66 | U | - | | - | | 0.5 | U | 0.31 | J | 0.5 | U | 0.38 | J | 0.76 | | 0.5 | U | 0.5 | U | 0.5 | U | 8260B |
| | 4/4-5/06 | - | | 10 | U | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | - | 10 | U | CLP | |
| | 9/27-28/06 | 0.50 | U | 0.43 | J | 0.68 | J | - | | - | | 0.50 | U | 0.31 | J | 0.50 | U | 0.39 | J | 0.53 | J | 0.50 | U | 0.50 | U | 0.50 | U | 8260B |
| | 4/2-3/07 | - | | 3.3 | J | 10 | U | - | | - | | 0.50 | U | 0.3 | J | - | | - | | 1.3 | J | - | | - | 0.50 | U | 8260B | |
| | 9/18-19/07 | 0.50 | U | 0.49 | J | 0.48 | J | - | | - | | 0.50 | U | 0.50 | U | 0.1 | J | 0.49 | J | 0.64 | | 0.50 | U | 0.50 | U | 0.1 | J | 8260B |
| | 3/11/08 | - | | 10 | UJ | 0.50 | UJ | - | | - | | 0.50 | UJ | 0.5 | J | - | | - | | 0.50 | UJ | - | | - | 0.50 | UJ | 8260B | |
| | 9/8-9/08 | 0.50 | U | 8.3 | U | 0.50 | U | - | | - | | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 8260B |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | | | Analysis Type | | | | | | | | | |
|--|------------|-------------------|-----|------|-----|------|---|------|---|------|------|------|-----|------|-----|-------|-----|---------------|-------|-------|-------|------|-------|-------|-------|-----------|-------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | MW-10 | | | MW-11 | | MW-12 | | MW-15 | | MW-17 | | |
| Tetrachloroethene MCL= 5 ug/l NCS = 0.7 ug/l | 6/20/94 | 10 | U | 120 | U | 44 | | 6 | J | 0.88 | J | 7.55 | J | 2.15 | J | 1.3 | J | 7.47 | J | 22.78 | | 7.84 | U | 37.43 | | CLP/8021 | |
| | 9/27/94 | 10 | U | 170 | U | 53 | | 26 | | 10 | U | 33 | | 5 | J | 12 | J | 9 | J | 36 | | 10 | U | 64 | | CLP | |
| | 2/06/95 | 10 | U | 18 | J | 46 | | 33 | | 1 | U | 31 | | 4 | J | 6 | J | 8 | J | 32 | | 1 | U | 48 | | CLP | |
| | 4/11/95 | 10 | U | 200 | U | 33 | | 13 | J | 10 | U | 33 | | 5 | J | 10 | J | 7 | J | 28 | | 10 | U | 41 | | CLP | |
| | 7/10/95 | 2 | U | 12 | | 31 | | 13 | | 2 | U | 42 | J | 5 | | 13 | | 10 | | 27 | | 10 | U | 40 | | 8021 | |
| | 7/10/95 | 5 | U | 9.9 | | 37 | | 14 | | 5 | U | 38 | | 3.6 | J | 5.7 | | 8.1 | | 31 | | - | | 30 | | 8260 | |
| | 4/10/96 | 10 | U | 20 | J | 46 | | 10 | J | 10 | U | 36 | | 4 | J | 4 | J | 12 | | 37 | | 10 | U | 41 | | CLP | |
| | 4/8/97 | 1 | U | 11 | | 21 | | - | | 1 | U | 13 | | 3.4 | | 4.4 | | 11 | | 23 | | 1 | U | 21 | | 8021 | |
| | 1/15/98 | 10 | U | 4 | J | 21 | | - | | 10 | U | 11 | | 3 | J | 3 | J | 10 | | 25 | | 10 | U | 28 | | CLP | |
| | 6/23/98 | - | | 12 | J | 16 | J | - | | - | | 18 | J | 3 | J | - | | - | | 19 | J | - | | 26 | J | CLP | |
| | 1/12/99 | 1 | U | 4.2 | | 19 | | - | | 1 | U | 7.6 | | 1.9 | | 2.6 | | 7 | | 13 | | 1 | U | 16 | | 8021B | |
| | 7/12/99 | - | | 3 | J | 19 | | - | | - | | 8 | J | 2 | J | - | | - | | 10 | U | - | | 29 | J | CLP | |
| | 2/1/00 | 1 | U | 1.5 | | 15 | | - | | 1 | U | 5.4 | | 1.8 | | 2.7 | | 8.4 | | 14 | | 1 | U | 21 | | 8021B | |
| | 8/8/00 | - | | 4 | J | 24 | | - | | - | | 7 | J | 1 | J | - | | - | | 14 | | - | | 16 | | CLP | |
| | 2/12-14/01 | 1 | U | 1.4 | | 20 | | - | | 1 | U | 1 | U | 2 | | 3.3 | | 8 | | 12 | | 1 | U | 23 | | 8021B | |
| | 8/7-8/01 | - | | 3 | J | 9 | J | - | | - | | 5 | J | 1 | J | - | | - | | 11 | | - | | 25 | | CLP | |
| | 2/11-14/02 | 0.5 | U | 2 | | 12 | | - | | 0.5 | U | 5 | | 0.8 | | 2 | | 6 | | 10 | | 0.5 | U | 16 | | 8260B | |
| | 8/12-14/02 | 0.5 | U | 2 | J | 14 | | - | | 1 | U | 3 | J | 1 | J | 1 | U | 0.5 | U | 11 | | 0.5 | U | 15 | | CLP/8260B | |
| | 1/21-22/03 | - | | 2 | J | 7 | J | - | | - | | - | | 1 | J | - | | - | | 10 | | - | | 17 | | CLP | |
| | 7/14-15/03 | 1 | U | 17 | U | 4.4 | | - | | - | | 1 | U | 1 | U | 4.2 | U | 5 | J | 1 | U | 1 | U | 1 | U | 2.3 | 8260B |
| | 3/16-17/04 | - | | 7 | J | 3 | J | - | | - | | 4 | J | 9 | J | - | | - | | 8 | J | - | | 10 | | CLP | |
| | 9/29-30/04 | 0.5 | U | 6 | J | 5.2 | J | - | | - | | 0.65 | J | 1.6 | J | 1.3 | | 3.1 | J | 5.9 | | 0.5 | U | 5 | J | 8260B | |
| | 3/30-31/05 | - | | 8 | J | 5 | J | - | | - | | 10 | U | 1 | J | - | | - | | 5 | J | - | | 3 | J | CLP | |
| | 10/3-4/05 | - | | 25 | U | 5.9 | | - | | - | | 0.53 | | 1.5 | | 2.6 | | 3.4 | | 5 | | 0.5 | U | 5.1 | J | 8260B | |
| | 4/4-5/06 | - | | 5 | J | 6 | J | - | | - | | 2 | J | 1 | J | - | | - | | 5 | J | - | | 3 | J | CLP | |
| | 9/27-28/06 | 0.50 | U | 5.6 | J | 5.4 | | - | | - | | 0.50 | U | 0.85 | | 1.5 | | 2.7 | | 3.1 | | 0.50 | U | 1.6 | | 8260B | |
| | 4/2-3/07 | - | | 13 | U | 6 | J | - | | - | | 0.4 | J | 1.1 | J | - | | - | | 4.0 | J | - | | 3 | J | 8260B | |
| 9/18-19/07 | 0.50 | U | 6.2 | | 2.7 | | - | | - | | 0.19 | J | 1.4 | | 1.3 | | 2.7 | | 3.9 | | 0.50 | U | 2.2 | | 8260B | | |
| 3/11/08 | - | | 2.9 | J | 0.7 | J | - | | - | | 0.5 | U | 0.6 | J | - | | - | | 2.7 | J | - | | 3.3 | J | 8260B | | |
| 9/8-9/08 | 0.50 | U | 3.5 | J | 1.2 | J | - | | - | | 0.50 | U | 1.3 | | 3 | | 1.7 | | 2.7 | | 0.50 | U | 3.9 | | 8260B | | |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | Analysis Type | | | | | | | | | | |
|--|------------|-------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|---------------|-----|------|-----|------|------|------|-----|----------|-------|-----------|
| | | MW-1 | MW-2 | MW-3 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | MW-15 | MW-17 | | | | | | | | | | | | | |
| Trichloroethene MCL= 5 ug/l NCS = 2.8 ug/l | 6/20/94 | 10 | U | 120 | U | 16 | | 21 | J | 21.2 | U | 21.2 | U | 21.2 | U | 21.2 | U | 5.74 | J | 21.2 | U | 15.7 | J | CLP/8021 | | |
| | 9/27/94 | 10 | U | 170 | U | 23 | | 71 | | 10 | U | 15 | | 6 | J | 10 | U | 3 | J | 14 | | 10 | U | 34 | | CLP |
| | 2/06/95 | 10 | U | 150 | U | 19 | | 88 | | 2.5 | U | 14 | | 6 | J | 50 | U | 3 | J | 13 | | 2.5 | U | 24 | | CLP |
| | 4/11/95 | 10 | U | 200 | U | 12 | | 53 | | 1 | J | 13 | | 6 | J | 71 | U | 2 | J | 10 | | 10 | U | 19 | | CLP |
| | 7/10/95 | 2 | U | 1.2 | J | 20 | | 67 | J | 1.6 | J | 28 | | 8.6 | | 2 | U | 5.8 | | 16 | | 10 | U | 21 | J | 8021 |
| | 7/10/95 | 5 | U | 5 | U | 16 | | 47 | | 1.2 | J | 15 | | 6 | | 5 | U | 3.1 | J | 13 | | - | | 17 | | 8260 |
| | 4/10/96 | 10 | U | 91 | U | 21 | | 28 | | 10 | U | 16 | | 6 | J | 23 | U | 4 | J | 15 | | 10 | U | 19 | | CLP |
| | 4/8/97 | 1 | U | 1.9 | | 12 | | - | | 53 | U | 11 | | 5.1 | | 1.2 | | 6 | | 14 | | 1 | U | 16 | | 8021 |
| | 1/15/98 | 10 | U | 20 | U | 11 | | - | | 1 | J | 8 | J | 4 | J | 14 | U | 5 | J | 12 | | 10 | U | 16 | | CLP |
| | 6/23/98 | - | | 25 | UJ | 8 | J | - | | - | | 9 | J | 3 | J | - | | - | | 10 | J | - | | 15 | J | CLP |
| | 1/12/99 | 1 | U | 1 | U | 14 | | - | | 1 | U | 6.9 | | 3.1 | | 1 | U | 5 | | 9.5 | | 1 | U | 13 | | 8021B |
| | 7/12/99 | - | | 3 | J | 10 | | - | | - | | 10 | | 3 | J | - | | - | | 10 | U | - | | 15 | | CLP |
| | 2/1/00 | 1 | U | 1 | U | 11 | | - | | 1 | J | 6.3 | | 2.7 | | 1 | U | 6.6 | | 10 | | 1 | U | 17 | | 8021B |
| | 8/8/00 | - | | 10 | U | 12 | J | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | 11 | J | CLP |
| | 2/12-14/01 | 1 | U | 1 | U | 13 | | - | | 0.8 | J | 1 | U | 3.1 | | 0.59 | J | 6.6 | | 8.7 | | 1 | U | 16 | | 8021B |
| | 8/7-8/01 | - | | 10 | U | 5 | J | - | | - | | 6 | J | 2 | J | - | | - | | 7 | J | - | | 15 | | CLP |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 7 | | - | | 0.6 | | 3 | | 1 | | 0.5 | U | 4 | | 6 | | 0.5 | U | 9 | | 8260B |
| | 8/12-14/02 | 0.5 | U | 10 | U | 12 | | - | | 1 | U | 6 | J | 4 | J | 1 | U | 0.5 | U | 9 | J | 0.5 | U | 12 | | CLP/8260B |
| | 1/21-22/03 | - | | 0.3 | J | 5 | J | - | | - | | - | | 2 | J | - | | - | | 8 | J | - | | 12 | | CLP |
| | 7/14-15/03 | 1 | U | 17 | U | 4 | U | - | | - | | 2.1 | J | 1 | U | 4.2 | U | 3.5 | J | 1 | U | 1 | UJ | 1.5 | | 8260B |
| | 3/16-17/04 | - | | 10 | U | 4 | J | - | | - | | 6 | J | 5 | J | - | | - | | 4 | J | - | | 6 | J | CLP |
| | 9/29-30/04 | 0.5 | U | 0.97 | J | 4.6 | J | - | | - | | 1.1 | J | 2.6 | J | 0.84 | U | 3.2 | J | 4.7 | | 0.5 | U | 4.6 | J | 8260B |
| | 3/30-31/05 | - | | 11 | J | 7 | J | - | | - | | 2 | J | 2 | J | - | | - | | 5 | J | - | | 2 | J | CLP |
| | 10/3-4/05 | - | | 25 | U | 5.5 | | - | | - | | 2.2 | | 2.6 | | 0.21 | J | 2.5 | | 5.3 | | 0.5 | U | 2.1 | J | 8260B |
| | 4/4-5/05 | - | | 10 | U | 5 | J | - | | - | | 2 | J | 2 | J | - | | - | | 4 | J | - | | 1 | J | CLP |
| | 9/27-28/06 | 0.50 | U | 0.73 | J | 5.4 | J | - | | - | | 0.39 | J | 1.2 | J | 0.21 | J | 2.7 | J | 3.1 | J | 0.50 | U | 1.6 | J | 8260B |
| | 4/2-3/07 | - | | 13 | U | 5 | J | - | | - | | 0.4 | J | 1.4 | | - | | - | | 2.9 | | - | | 1 | J | 8260B |
| 9/18-19/07 | 0.50 | U | 0.63 | J | 5.6 | J | - | | - | | 0.73 | | 1.7 | 5.6 | 0.50 | U | 2.8 | | 4.6 | | 0.50 | U | 1.2 | J | 8260B | |
| 3/11/08 | - | | 10 | U | 2.1 | | - | | - | | 0.2 | J | 1.2 | | - | | - | | 4.1 | | - | | 1.3 | | 8260B | |
| 9/8-9/08 | 0.50 | U | 8.3 | U | 3.4 | | - | | - | | 0.41 | J | 1.6 | | 0.19 | J | 2.7 | | 4.7 | | 0.50 | U | 1.3 | | 8260B | |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | Analysis Type | | | | | | | | | | |
|--|------------|-------------------|-----|------|------|------|---|------|---|-------|------|------|------|-------|----|---------------|-------|------|-------|-------|-------|------|-------|-------|-------|-----------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | | MW-10 | | MW-11 | | MW-12 | | MW-15 | | MW-17 | |
| 1,1,1-Trichloroethane MCL= 200 ug/l NCS = 200 ug/l | 6/20/94 | 10 | U | 1800 | | 31 | | 25 | U | 30.11 | U | 2.42 | J | 11.89 | J | 130.14 | J | 4.83 | J | 16.79 | J | 0.08 | J | 13.39 | J | CLP/8021 |
| | 9/27/94 | 10 | U | 1900 | | 35 | | 25 | U | 10 | U | 6 | J | 18 | | 1830 | | 5 | J | 24 | | 5 | J | 16 | | CLP |
| | 2/06/95 | 10 | U | 2700 | | 31 | | 25 | U | 1 | U | 6 | J | 14 | | 650 | | 5 | J | 18 | | 2.5 | | 14 | | CLP |
| | 4/11/95 | 10 | U | 2000 | | 21 | | 25 | U | 10 | U | 5 | J | 16 | | 1300 | | 5 | J | 17 | | 3 | J | 10 | | CLP |
| | 7/10/95 | 3 | U | 1600 | | 26 | | 2 | U | 2 | U | 6 | | 12 | | 950 | | 5.9 | | 17 | | 10 | U | 7.8 | | 8021 |
| | 7/10/95 | 5 | U | 1600 | | 21 | | 5 | U | 5 | U | 4.9 | J | 9.8 | | 740 | | 4.8 | J | 16 | | - | | 7 | | 8260 |
| | 4/10/96 | 10 | U | 1300 | | 21 | | 25 | U | 10 | U | 8 | J | 8 | J | 290 | | 6 | J | 15 | | 4 | J | 7 | J | CLP |
| | 4/8/97 | 1 | U | 770 | | 8.2 | | - | | 1 | U | 4.5 | | 1.5 | | 570 | | 6.1 | | 11 | | 4.1 | | 2.9 | | 8021 |
| | 1/15/98 | 10 | U | 320 | | 7 | J | - | | 10 | U | 4 | J | 10 | U | 150 | | 7 | J | 9 | J | 5 | J | 3 | J | CLP |
| | 6/23/98 | - | | 710 | J | 3 | J | - | | - | | 3 | J | 10 | UJ | - | | - | | 6 | J | - | | 3 | J | CLP |
| | 1/12/99 | 1 | U | 310 | | 4.7 | | - | | 1 | U | 2.5 | | 1 | U | 170 | | 6.3 | | 5.4 | | 3.4 | | 1.2 | | 8021B |
| | 7/12/99 | - | | 190 | | 3 | J | - | | - | | 2 | J | 10 | U | - | | - | | 10 | U | - | | 1 | J | CLP |
| | 2/1/00 | 1 | U | 110 | | 2.8 | | - | | 1.7 | | 1 | U | 180 | J | 6 | | 3.9 | | 3.9 | | 1.7 | | 1.7 | | 8021B |
| | 8/8/00 | - | | 250 | J | 3 | J | - | | - | | 2 | J | 10 | U | - | | - | | 10 | U | - | | 1 | J | CLP |
| | 2/12-14/01 | 1 | U | 89 | | 3.4 | | - | | 1 | U | 1 | U | 1 | U | 380 | | 1 | U | 2.5 | | 2.4 | | 2.8 | | 8021B |
| | 8/7-8/01 | - | | 89 | | 1 | J | - | | - | | 10 | U | 10 | U | - | | - | | 2 | J | - | | 2 | J | CLP |
| | 2/11-14/02 | 0.5 | U | 41 | | 3 | U | - | | 0.5 | U | 0.5 | U | 0.5 | U | 130 | | 3 | | 2 | | 1 | | 2 | | 8260B |
| | 8/12-14/02 | 0.5 | U | 130 | | 10 | U | - | | 1 | U | 10 | U | 10 | U | 58 | | 0.5 | U | 10 | U | 0.5 | U | 10 | U | CLP/8260B |
| | 1/21-22/03 | - | | 180 | | 1 | J | - | | - | | - | | 10 | U | - | | - | | 2 | J | - | | 1 | J | CLP |
| | 7/14-15/03 | 1 | U | 550 | | 4 | U | - | | - | | 1 | U | 1 | U | 70 | | 3.3 | J | 1 | U | 1.1 | J | 1 | U | 8260B |
| | 3/16-17/04 | - | | 630 | | 10 | U | - | | - | | 10 | U | 3 | J | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 9/29-30/04 | 0.5 | U | 580 | J | 0.5 | U | - | | - | | 0.95 | J | 0.37 | J | 40 | | 3.2 | J | 2.1 | | 1.2 | | 0.33 | J | 8260B |
| | 3/30-31/05 | - | | 760 | U | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 10/3-4/05 | - | | 740 | | 0.5 | U | - | | - | | 0.5 | U | 0.5 | U | 150 | | 1 | U | 1.4 | | 0.86 | | 0.5 | U | 8260B |
| | 4/4-5/06 | - | | 700 | | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 1 | J | - | | 10 | U | CLP |
| | 9/27-28/06 | 0.50 | U | 350 | J | 2.5 | U | - | | - | | 0.50 | U | 0.50 | U | 25 | J | 1.2 | | 1.4 | | 0.59 | J | 0.50 | U | 8260B |
| | 4/2-3/07 | - | | 300 | | 10 | U | - | | - | | 0.50 | U | 0.50 | U | - | | - | | 2.5 | U | - | | 0.50 | U | 8260B |
| 9/18-19/07 | 0.50 | U | 570 | | 0.50 | U | - | | - | | 0.50 | U | 0.50 | U | 25 | | 0.56 | | 1.4 | | 0.64 | | 0.50 | U | 8260B | |
| 3/11/08 | - | | 320 | | 0.50 | U | - | | - | | 0.50 | U | 0.50 | U | - | | - | | 2.5 | U | - | | 0.50 | U | 8260B | |
| 9/8-9/08 | 0.50 | U | 310 | J | 0.50 | U | - | | - | | 0.50 | U | 0.50 | U | 91 | | 0.50 | U | 0.50 | U | 0.93 | | 0.50 | U | 8260B | |

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
04/29/09

Table 5A
Background Assessment Organic Target Parameter Analytical Results
1994-2008
Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l (ppb) | | | | | | | | | | | | | | | | Analysis Type | | | | | | | | |
|--|------------|--------------------|-----|------|------|------|----|------|---|------|------|------|-----|------|------|-------|-----|---------------|-------|-----|-------|------|-------|------|-------|-----------|
| | | MW-1 | | MW-2 | | MW-3 | | MW-6 | | MW-7 | | MW-8 | | MW-9 | | MW-10 | | | MW-11 | | MW-12 | | MW-15 | | MW-17 | |
| Vinyl Chloride MCL= 2 ug/l NCS = 0.15 ug/l | 6/20/94 | 10 | U | 120 | U | 10 | U | 10 | J | 6.6 | UJ | 6.6 | UJ | 6.6 | UJ | 6.6 | UJ | 6.6 | UJ | 6.6 | UJ | 6.6 | UJ | 6.6 | UJ | CLP/8021 |
| | 9/27/94 | 10 | U | 170 | U | 3 | J | 10 | J | 10 | U | 5 | J | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 14 | U | CLP |
| | 2/06/95 | 10 | U | 150 | U | 2 | J | 20 | J | 3.6 | | 6 | J | 10 | U | 50 | U | 10 | U | 10 | U | 1 | U | 10 | U | CLP |
| | 4/11/95 | 10 | U | 200 | U | 10 | U | 10 | J | 2 | J | 6 | J | 10 | UJ | 71 | U | 10 | U | 10 | UJ | 10 | UJ | 10 | U | CLP |
| | 7/10/95 | 2 | U | 2 | U | 2.9 | J | 12 | J | 2 | U | 11 | J | 2 | U | 2 | U | 2 | U | 2.3 | | 10 | U | 0.94 | J | 8021 |
| | 7/10/95 | 5 | U | 5 | U | 3.1 | J | 23 | | 5 | U | 7.2 | | 5 | U | 5 | U | 5 | U | 5 | U | - | | 5 | U | 8260 |
| | 4/10/96 | 10 | U | 91 | U | 2 | J | 14 | J | 10 | U | 5 | J | 10 | U | 23 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP |
| | 4/8/97 | 1 | U | 1 | U | 0.98 | | - | | 1 | U | 3 | J | 1 | U | 1 | U | 2.8 | J | 1 | U | 1 | U | 4 | J | 8021 |
| | 1/15/98 | 10 | U | 20 | U | 10 | U | - | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP |
| | 6/23/98 | - | | 25 | UJ | 10 | UJ | - | | - | | 2 | J | 10 | UJ | - | | - | | 2 | J | - | | 2 | J | CLP |
| | 1/12/99 | 1 | U | 1 | U | 5 | | - | | 1 | U | 1.8 | | 2 | | 1 | U | 1 | U | 2.8 | | 1 | U | 3.1 | | 8021B |
| | 7/12/99 | - | | 10 | U | 2 | J | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | 2 | J | CLP |
| | 2/1/00 | 1 | U | 1 | U | 4.2 | | - | | 0.75 | J | 1.7 | | 3.1 | | 1 | U | 2.4 | | 3.8 | | 1 | U | 5.5 | | 8021B |
| | 8/8/00 | - | | 10 | U | 5 | J | - | | - | | 10 | U | 2 | J | - | | - | | 2 | J | - | | 2 | J | CLP |
| | 2/12-14/01 | 1 | U | 1 | U | 6.6 | J | - | | 1 | U | 1 | U | 2.8 | J | 1 | U | 2.9 | J | 3.9 | J | 1 | U | 8 | J | 8021B |
| | 8/7-8/01 | - | | 10 | U | 10 | U | - | | - | | 10 | U | 2 | J | - | | - | | 3 | J | - | | 8 | J | CLP |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 4 | | - | | 2 | | 0.5 | U | 1 | | 0.5 | U | 3 | | 4 | | 0.5 | U | 6 | | 8060B |
| | 8/12-14/02 | 0.5 | U | 10 | U | 5 | J | - | | 2 | J | 10 | U | 10 | U | 1 | U | 0.5 | U | 3 | J | 0.5 | U | 4 | J | CLP/8260B |
| | 1/21-22/03 | - | | 10 | U | 0.9 | J | - | | - | | - | | 0.9 | J | - | | - | | 2 | J | - | | 4 | J | CLP |
| | 7/14-15/03 | 1 | U | 17 | U | 4 | U | - | | - | | 1 | U | 1 | U | 4.2 | U | 1.8 | J | 1 | U | 1 | UJ | 1.3 | | 8060B |
| | 3/16-17/04 | - | | 10 | U | 10 | U | - | | - | | 10 | U | 3 | J | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 9/29-30/04 | 0.5 | U | 1.3 | J | 4.7 | J | - | | - | | 0.5 | U | 2.9 | J | 0.84 | U | 3.1 | J | 3.3 | | 0.5 | U | 2.4 | J | 8260B |
| | 3/30-31/05 | - | | 67 | U | 10 | U | - | | - | | 10 | U | 10 | U | - | | - | | 10 | U | - | | 10 | U | CLP |
| | 10/3-4/05 | - | | 25 | UJ | 5.8 | J | - | | - | | 0.5 | UJ | 2.4 | J | 0.5 | UJ | 3.4 | J | 4.3 | J | 0.5 | UJ | 0.25 | J | 8260B |
| | 4/4-5/06 | - | | 10 | U | 8 | J | - | | - | | 10 | U | 10 | U | - | | - | | 5 | J | - | | 10 | U | CLP |
| | 9/27-28/06 | 0.50 | U | 0.48 | J | 3.6 | | - | | - | | 0.50 | U | 0.76 | | 0.50 | U | 2.8 | | 2.6 | | 0.50 | U | 0.50 | U | 8260B |
| | 4/2-3/07 | - | | 13 | U | 1.2 | J | - | | - | | 0.50 | U | 1.5 | | - | | - | | 3.4 | | - | | 0.50 | U | 8260B |
| | 9/18-19/07 | 0.50 | U | 0.41 | J | 3.2 | | - | | - | | 0.50 | U | 1.3 | | 0.50 | U | 3.1 | | 4 | | 0.50 | U | 0.50 | U | 8260B |
| 3/11/08 | - | | 10 | U | 0.50 | U | - | | - | | 0.50 | U | 1.4 | | - | | - | | 4.2 | | - | | 0.50 | U | 8260B | |
| 9/8-9/08 | 0.50 | U | 8.3 | U | 0.50 | U | - | | - | | 0.50 | U | 1.4 | | 0.50 | U | 2.6 | | 3 | | 0.50 | U | 0.50 | U | 8260B | |

Watauga County Landfill
 Watauga County, North Carolina
 Upgradient Well: MW-1
 04/29/09

Table 5A
 Background Assessment Organic Target Parameter Analytical Results
 1994-2008
 Core Groundwater Monitoring Wells

| Parameter | Event | Results ug/l(ppb) | | | | | | | | | | | | | | Analysis Type | | |
|-----------|-------|-------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|--|--|---------------|--|--|
| | | MW-1 | MW-2 | MW-3 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | MW-15 | MW-17 | | | | | |
| | | | | | | | | | | | | | | | | | | |

TABLE 5A NOTES:

U Denotes not detected (the associated numerical value is the CRQL/LOQ).

J Denotes an estimated value

CRQL Contract Required Quantification Limit (CLP Methods)

LOQ Limit of Quantitation (SW-846 Methods)

- Denotes Not Available or Not Sampled

Shading - denotes Parameter results that exceed U.S. EPA Maximum Contaminant Levels.

NCS Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)

MCL Denotes EPA Maximum Contaminant Level (EPA 822-R-94-001)

ANALYSIS TYPE:

1) Organic parameters were analyzed utilizing CLP Statement of Work OLMO1.9(3/90), SW-846 Method #8260 and/or #8021, as noted.

2) For the 6/94 event, monitoring wells MW-8, MW-9, MW-10, MW-11, MW-12, MW-15 and MW-17, SW-846 analytical method #8021 analysis was performed.

For the 8//02 event, monitoring wells MW-1, MW-10, MW-11, and MW-15, SW-846 analytical method #8260b, 25 ml purge analysis was performed.

Other monitoring locations were analyzed using CLP analytical methods.

j:\6520-21\CORRESP\REPORTS\TABLE5A3.XLS

Table 5B

04/29/09

Watauga County, North Carolina
Upgradient Well: MW-1

Background Assessment Organic Target Parameter Analytical Results
Boundary Groundwater Monitoring Wells

| Parameter Results ug/l (ppb) | Event | Monitoring Wells | | | | | | | | | | Analysis Type | NCS (ug/L) | MCL (ug/L) | | | | |
|---------------------------------|--------------------|------------------|----|------|---|-------|-------|-------|-------|-------|-------|------------------|---------------|---------------|-------|-------|-------|------|
| | | MW-4 | | MW-5 | | MW-13 | | MW-14 | | MW-15 | | | | | MW-16 | | MW-18 | |
| Benzene | 6/20/94 | 10 | U | - | | 5.3 | U | 5.3 | U | 5.3 | U | 5.3 | U | 5.3 | U | 8021 | 1 | 5 |
| | 9/27/94 | 2 | J | - | | 10 | U | 10 | U | 10 | U | 2 | J | 1 | J | CLP | 1 | 5 |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 1 | 5 |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 1 | 5 |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 1 | 5 |
| | 4/10/96 | - | | - | | - | | - | | 10 | U | - | | - | | CLP | 1 | 5 |
| | 4/8/97 | - | | - | | - | | - | | 1 | U | - | | - | | 8021 | 1 | 5 |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | 10 | U | CLP | 1 | 5 |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | | 1 | U | 8021 | 1 | 5 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 1 | 5 |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 1 | 5 |
| | 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | | - | | 0.5 | U | 8260B | 1 | 5 |
| | Chloroethane | 6/20/94 | 10 | U | - | | 9.29 | U | 9.29 | U | 9.29 | U | 9.29 | U | 9.29 | U | 8021 | 2800 |
| 9/27/94 | | 18 | J | - | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 2800 | - |
| 2/06/95 | | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 2800 | - |
| 4/11/95 | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 2800 | - |
| 7/10/95 | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 2800 | - |
| 4/10/96 | | - | | - | | - | | - | | 10 | U | - | | - | | CLP | 2800 | - |
| 4/8/97 | | - | | - | | - | | - | | 1 | U | - | | - | | 8021 | 2800 | - |
| 1/15/98 | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | 10 | U | CLP | 2800 | - |
| 2/12-14/01 | | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U | - | | 2 | U | 8021 | 2800 | - |
| 2/11-14/02 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 2800 | - |
| 8/12-14/02 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 2800 | - |
| 9/27-28/06 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | | - | | 0.5 | U | 8260B | 2800 | - |
| Dichlorodifluoromethane | | 6/20/94 | 10 | U | - | | 46.64 | U | 46.64 | U | 46.64 | U | 46.64 | U | 46.64 | U | 8021 | 1400 |
| | 9/27/94 | 10 | U | - | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 1400 | - |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 1400 | - |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 1400 | - |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 1400 | - |
| | 4/10/96 | - | | - | | - | | - | | 10 | U | - | | - | | CLP | 1400 | - |
| | 4/8/97 | - | | - | | - | | - | | 1 | U | - | | - | | 8021 | 1400 | - |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | 10 | U | CLP | 1400 | - |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | | 1 | U | 8021 | 1400 | - |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 1400 | - |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 1400 | - |
| | 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | | - | | 0.5 | U | 8260B | 1400 | - |
| | 1,1-Dichloroethane | 6/20/94 | 10 | U | - | | 0.99 | J | 43.1 | U | 0.26 | J | 43.1 | U | 43.1 | U | 8021 | 700 |
| 9/27/94 | | 10 | U | - | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 700 | - |
| 2/06/95 | | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 700 | - |
| 4/11/95 | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 700 | - |
| 7/10/95 | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 700 | - |
| 4/10/96 | | - | | - | | - | | - | | 10 | U | - | | - | | CLP | 700 | - |
| 4/8/97 | | - | | - | | - | | - | | 1 | U | - | | - | | 8021 | 700 | - |
| 1/15/98 | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | 10 | U | CLP | 700 | - |
| 2/12-14/01 | | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | | 1 | U | 8021 | 700 | - |
| 2/11-14/02 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 700 | - |
| 8/12-14/02 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 700 | - |
| 9/27-28/06 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | | - | | 0.5 | U | 8260B | 700 | - |

Watauga County, North Carolina
Upgradient Well: MW-1

Background Assessment Organic Target Parameter Analytical Results
Boundary Groundwater Monitoring Wells

| Parameter Results ug/l (ppb) | Event | Monitoring Wells | | | | | | | | | | Analysis Type | NCS (ug/L) | MCL (ug/L) | | | |
|---------------------------------|------------|------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|---------------|---------------|------|-----|----|
| | | MW-4 | MW-5 | MW-13 | MW-14 | MW-15 | MW-16 | MW-18 | MW-19 | MW-20 | MW-21 | | | | | | |
| 1,1-Dichloroethene | 6/20/94 | 10 | U | - | 9.75 | U | 9.75 | U | 9.75 | U | 9.75 | U | 9.75 | U | 8021 | 7 | 7 |
| | 9/27/94 | 10 | U | - | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 7 | 7 |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 7 | 7 | |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 7 | 7 | |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 7 | 7 | |
| | 4/10/96 | - | - | - | - | - | - | 10 | U | - | - | - | - | CLP | 7 | 7 | |
| | 4/8/97 | - | - | - | - | - | - | 0.77 | J | - | - | - | - | 8021 | 7 | 7 | |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 7 | 7 | |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | 1 | U | 8021 | 7 | 7 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 7 | 7 | |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 7 | 7 | |
| 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | - | - | 0.5 | U | 8260B | 7 | 7 | |
| cis-1,2-Dichloroethene (3) | 6/20/94 | 10 | U | - | 9.49 | U | 9.49 | U | 9.49 | U | 9.49 | U | 9.49 | U | 8021 | 70 | 70 |
| | 9/27/94 | 10 | U | - | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 70 | 70 |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 70 | 70 | |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 70 | 70 | |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 70 | 70 | |
| | 4/10/96 | - | - | - | - | - | - | 10 | U | - | - | - | - | CLP | 70 | 70 | |
| | 4/8/97 | - | - | - | - | - | - | 1 | U | - | - | - | - | 8021 | 70 | 70 | |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 70 | 70 | |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | 1 | U | 8021 | 70 | 70 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 70 | 70 | |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 70 | 70 | |
| 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | - | - | 0.5 | U | 8260B | 70 | 70 | |
| trans-1,3-Dichloropropene | 6/20/94 | 10 | U | - | 24.49 | U | 24.49 | U | 24.49 | U | 24.49 | U | 24.49 | U | 8021 | - | - |
| | 9/27/94 | 10 | U | - | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | - | - |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | - | - | |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | - | - | |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | - | - | |
| Methylene Chloride | 6/20/94 | 10 | U | - | 36.2 | UJ | 36.2 | UJ | 36.2 | UJ | 36.2 | UJ | 36.2 | UJ | 8021 | 5 | 5 |
| | 9/27/94 | 13 | U | - | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 5 | 5 |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 5 | 5 | |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 5 | 5 | |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 5 | 5 | |
| | 4/10/96 | - | - | - | - | - | - | 10 | U | - | - | - | - | CLP | 5 | 5 | |
| | 4/8/97 | - | - | - | - | - | - | 0.656 | J | - | - | - | - | 8021 | 5 | 5 | |
| | 1/15/98 | - | - | - | - | - | - | 1 | J | - | - | - | - | CLP | 5 | 5 | |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | 1 | U | 8021 | 5 | 5 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 5 | 5 | |
| | 8/12-14/02 | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 8260B | 5 | 5 | |
| 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | - | - | 0.5 | U | 8260B | 5 | 5 | |
| Tetrachloroethene | 6/20/94 | 10 | U | - | 7.84 | U | 7.84 | J | 7.84 | U | 7.84 | U | 7.84 | U | 8021 | 0.7 | 5 |
| | 9/27/94 | 10 | U | - | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 0.7 | 5 |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 0.7 | 5 | |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 0.7 | 5 | |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 0.7 | 5 | |
| | 4/10/96 | - | - | - | - | - | - | 10 | U | - | - | - | - | CLP | 0.7 | 5 | |
| | 4/8/97 | - | - | - | - | - | - | 1 | U | - | - | - | - | 8021 | 0.7 | 5 | |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 0.7 | 5 | |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | 1 | U | 8021 | 0.7 | 5 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 0.7 | 5 | |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 0.7 | 5 | |
| 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | - | - | 0.5 | U | 8260B | 0.7 | 5 | |

Watauga County, North Carolina
Upgradient Well: MW-1

Background Assessment Organic Target Parameter Analytical Results
Boundary Groundwater Monitoring Wells

| Parameter Results ug/l (ppb) | Event | MW-4 | | MW-5 | | MW-13 | | MW-14 | | MW-15 | | MW-16 | | MW-18 | | Analysis Type | NCS (ug/L) | MCL (ug/L) |
|---------------------------------|------------|------|----|------|---|-------|----|-------|----|-------|----|-------|----|-------|----|------------------|---------------|---------------|
| | | | | | | | | | | | | | | | | | | |
| Trichloroethene | 6/20/94 | 10 | U | - | | 21.2 | U | 21.2 | U | 21.2 | U | 21.2 | U | 21.2 | U | 8021 | 2.8 | 5 |
| | 9/27/94 | 10 | U | - | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 2.8 | 5 |
| | 2/06/95 | 10 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 8021 | 2.8 | 5 |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 2.8 | 5 |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 2.8 | 5 |
| | 4/10/96 | - | | - | | - | | - | | 10 | U | - | | - | | CLP | 2.8 | 5 |
| | 4/8/97 | - | | - | | - | | - | | 1 | U | - | | - | | 8021 | 2.8 | 5 |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 2.8 | 5 |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | | 1 | U | 8021 | 2.8 | 5 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 2.8 | 5 |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 2.8 | 5 |
| | 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | | - | | 0.5 | U | 8260B | 2.8 | 5 |
| 1,1,1-Trichloroethane | 6/20/94 | 10 | U | - | | 30.11 | U | 30.11 | U | 0.08 | J | 30.11 | U | 30.11 | U | 8021 | 200 | 200 |
| | 9/27/94 | 10 | U | - | | 10 | U | 10 | U | 5 | J | 10 | U | 10 | U | CLP | 200 | 200 |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 2.5 | J | 1 | U | 1 | U | 8021 | 200 | 200 |
| | 4/11/95 | 10 | U | 10 | U | 10 | U | 1 | J | 3 | J | 10 | U | 10 | U | CLP | 200 | 200 |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 200 | 200 |
| | 4/10/96 | - | | - | | - | | - | | 4 | J | - | | - | | CLP | 200 | 200 |
| | 4/8/97 | - | | - | | - | | - | | 4.1 | J | - | | - | | 8021 | 200 | 200 |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 5 | J | - | | 10 | U | CLP | 200 | 200 |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | | 1 | U | 8021 | 200 | 200 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 200 | 200 |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 200 | 200 |
| | 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | | - | | 0.5 | U | 8260B | 200 | 200 |
| Vinyl Chloride | 6/20/94 | 10 | U | - | | 6.6 | UJ | 6.6 | | 6.6 | UJ | 6.6 | UJ | 6.6 | U | 8021 | 0.015 | 2 |
| | 9/27/94 | 10 | U | - | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | CLP | 0.015 | 2 |
| | 2/06/95 | 10 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 8021 | 0.015 | 2 |
| | 4/11/95 | 10 | UJ | 10 | U | 10 | U | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | CLP | 0.015 | 2 |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 8021 | 0.015 | 2 |
| | 4/10/96 | - | | - | | - | | - | | 10 | U | - | | - | | CLP | 0.015 | 2 |
| | 4/8/97 | - | | - | | - | | - | | 1 | U | - | | - | | 8021 | 0.015 | 2 |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | 10 | U | CLP | 0.015 | 2 |
| | 2/12-14/01 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | - | | 1 | U | 8021 | 0.015 | 2 |
| | 2/11-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 0.015 | 2 |
| | 8/12-14/02 | 0.5 | U | 0.5 | U | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U | 8260B | 0.015 | 2 |
| | 9/27-28/06 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | - | | - | | 0.5 | U | 8260B | 0.015 | 2 |

TABLE 5B NOTES:

- U Denotes not detected above Instrument Detection Level (IDL) for Inorganics and not detected above CRQL/LOQ for Organics.
- J Denotes an estimated value
- CRQL Contract Required Quantification Limit (CLP Methods)
- LOQ Limit of Quantitation (SW-846 Methods)
- Denotes Not Available or Not Sampled
- NCS Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)
- MCL Denotes EPA Maximum Contaminant Level (EPA 822-R-94-001)
- Shading - denotes parameter results that exceed U.S. EPA Maximum Contaminant Levels.

ANALYSIS TYPE NOTES:

- 1) Organic parameters were analyzed utilizing CLP Statement of Work OLMO3-2, SW-846 Method #8260B and/or #8021, as noted.
- 2) For CLP, 1,2-Dichloroethene was reported as total concentration; for 8021/8260B concentration was reported for cis-isomer.

| Parameter | Event | ORGANICS | | | | | | | | | | | | Mt. Spring | | | | |
|--------------------------------|------------|----------|----|-----|----|----|----|----|----|-----|----|-----|----|------------|---|--------|---|---|
| | | S1 | | S2 | | S3 | | S4 | | S5 | | S6 | | L1 | | Spring | | |
| Benzene WQS = 71.4 ug/l | 6/20/94 | 10 | U | 3 | J | 10 | U | 1 | J | 10 | U | - | - | - | - | - | - | |
| | 9/27/94 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | U | 10 | U | |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | 10 | U | - | - | |
| | 4/11/95 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | - | - | |
| | 4/10/96 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 4/8/97 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 1/15/98 | 10 | U | 3 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 6/23/98 | 10 | UJ | 1 | J | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - | |
| | 1/12/99 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 7/12/99 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 2/1/00 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 8/8/00 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 2/12-14/01 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | UJ | - | - | - | - | |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | - | - | - | - | |
| | 2/11-14/02 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | UJ | - | - | - | - | |
| | 8/12-14/02 | DRY | - | 4 | J | 10 | U | 10 | U | DRY | - | 10 | U | - | - | - | - | |
| | 1/21-22/03 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | UJ | - | - | - | - | |
| | 7/14-15/03 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | UJ | - | - | - | - | |
| | 3/16-17/04 | 10 | U | 10 | J | 10 | U | 10 | U | 10 | U | 10 | UJ | - | - | - | - | |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | - | - | - | - | - | |
| | 3/30-31/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | - | - | - | - | - | - |
| | 10/3-4/05 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 4/4-5/06 | 10 | U | 1 | J | 10 | U | 10 | U | 10 | U | NS | U | - | - | - | - | |
| | 9/27-28/06 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 4/2-3/07 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 9/18-19/07 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | | |
| 3/11/08 | 10 | U | 1 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | | |
| Chloroethane WQS = 860 ug/l | 6/20/94 | 10 | U | 56 | | 10 | U | 10 | U | 11 | | - | - | - | - | - | - | |
| | 9/27/94 | - | - | - | | - | - | - | - | - | - | - | - | 13 | | 10 | U | |
| | 2/06/95 | 10 | U | 26 | | 10 | U | 2 | J | 7 | J | - | - | 6 | J | - | - | |
| | 4/11/95 | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 7/10/95 | 15 | | 10 | U | 10 | U | 4 | J | 10 | U | - | - | - | - | - | - | |
| | 4/10/96 | 8 | J | 46 | | 10 | U | 3 | J | 5 | J | 10 | U | - | - | - | - | |
| | 4/8/97 | 10 | U | 50 | | 10 | U | 1 | J | 23 | | 10 | U | - | - | - | - | |
| | 1/15/98 | 10 | U | 56 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 6/23/98 | 2 | J | 26 | J | 10 | UJ | 1 | J | 4 | J | 10 | UJ | - | - | - | - | |
| | 1/12/99 | 10 | U | 71 | | 10 | U | 3 | J | 10 | U | 10 | U | - | - | - | - | |
| | 7/12/99 | 10 | U | 58 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 2/1/00 | 1 | J | 70 | | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - | |
| | 8/8/00 | 5 | J | 44 | | 10 | U | 2 | J | 10 | U | 10 | UJ | - | - | - | - | |
| | 2/12-14/01 | 10 | U | 110 | | 23 | | 10 | U | 4 | J | 10 | U | - | - | - | - | |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 10 | U | 72 | | 10 | U | - | - | - | - | |
| | 2/11-14/02 | 10 | U | 55 | | 23 | | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 8/12-14/02 | DRY | - | 150 | J | 10 | UJ | 10 | UJ | DRY | - | 10 | UJ | - | - | - | - | |
| | 1/21-22/03 | 10 | U | 57 | | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - | |
| | 7/14-15/03 | 10 | U | 47 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 3/16-17/04 | 10 | U | 9 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | - | - | - | - | - | |
| | 3/30-31/05 | 10 | U | 31 | | 10 | U | 10 | U | 10 | U | DRY | - | - | - | - | - | - |
| | 10/3-4/05 | 10 | U | 44 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | 4/4-5/06 | 10 | U | 39 | | 10 | U | 10 | U | 10 | U | NS | U | - | - | - | - | |
| | 9/27-28/06 | 10 | U | 10 | U | 10 | U | 10 | U | 3 | J | 10 | U | - | - | - | - | |
| | 4/2-3/07 | 10 | U | 29 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 9/18-19/07 | 10 | U | 18 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | | |
| 3/11/08 | 10 | U | 26 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | | |
| 9/8-9/08 | 10 | U | 6 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | | |

Watauga County, North Carolina
 Upgradient Well: MW-1
 04/27/09

Table 5C
 Background Assessment Organic Target Parameter Analytical Results
 Surface Water Sampling Locations
 Results ug/l(ppb)

| Parameter | Event | S1 | | S2 | | S3 | | S4 | | S5 | | S6 | | L1 | | Mt. Spring | |
|--|------------|-----|----|-----|----|----|----|----|----|-----|----|-----|----|----|----|------------|---|
| | | | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane WQS = 570000 ug/l | 6/20/94 | 10 | U | 4 | J | 10 | U | 10 | U | 10 | U | - | - | - | - | - | - |
| | 9/27/94 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | U | 10 | U |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | 10 | U | - | - |
| | 4/11/95 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7/10/95 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - | - | - |
| | 4/10/96 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/8/97 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 6/23/98 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - |
| | 1/12/99 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/12/99 | 10 | U | 17 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/1/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | UJ | 10 | UJ | - | - | - | - |
| | 8/8/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/12-14/01 | 10 | U | 14 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 8/7-8/01 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 3 | J | 10 | UJ | - | - | - | - |
| | 2/11-14/02 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | U | 10 | UJ | - | - | - | - |
| | 8/12-14/02 | DRY | | 10 | UJ | 10 | UJ | 10 | UJ | DRY | | 10 | UJ | - | - | - | - |
| | 1/21-22/03 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/14-15/03 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 3/30-31/05 | 10 | U | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - |
| | 10/3-4/05 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - |
| | 4/4-5/06 | 10 | U | 10 | J | 10 | J | 10 | J | 4 | J | NS | | - | - | - | - |
| | 9/27-28/06 | 10 | U | 10 | U | 10 | U | 10 | U | 4 | J | 10 | U | - | - | - | - |
| | 4/2-3/07 | 10 | U | 0.4 | J | 10 | U | 10 | U | 1 | J | 10 | U | - | - | - | - |
| | 9/18-19/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| 3/11/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | - | - | - | - | |
| 1,1-Dichloroethane WQS = 42 ug/l | 6/20/94 | 1 | J | 23 | | 10 | U | 59 | | 2 | J | - | - | - | - | - | - |
| | 9/27/94 | - | - | - | | - | - | - | - | - | - | - | 10 | U | 10 | U | - |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 45 | | 10 | U | - | - | 10 | U | - | - |
| | 4/11/95 | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7/10/95 | 6 | J | 20 | | 10 | U | 41 | | 2 | J | - | - | - | - | - | - |
| | 4/10/96 | 3 | J | 15 | | 10 | U | 30 | | 2 | J | 14 | - | - | - | - | - |
| | 4/8/97 | 10 | U | 14 | | 10 | U | 12 | | 10 | U | 14 | - | - | - | - | - |
| | 1/15/98 | 10 | U | 15 | | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 6/23/98 | 10 | UJ | 8 | J | 10 | UJ | 15 | J | 10 | UJ | 10 | UJ | - | - | - | - |
| | 1/12/99 | 10 | U | 12 | | 10 | U | 14 | | 10 | U | 1 | J | - | - | - | - |
| | 7/12/99 | 10 | U | 11 | J | 10 | U | 5 | J | 10 | U | 10 | U | - | - | - | - |
| | 2/1/00 | 10 | U | 9 | J | 10 | U | 12 | | 10 | U | 1 | J | - | - | - | - |
| | 8/8/00 | 3 | J | 7 | J | 10 | U | 13 | | 10 | U | 1 | J | - | - | - | - |
| | 2/12-14/01 | 10 | U | 10 | U | 2 | J | 10 | U | 14 | | 1 | J | - | - | - | - |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 7 | J | 10 | J | 10 | U | - | - | - | - |
| | 2/11-14/02 | 10 | U | 11 | | 10 | U | 9 | J | 10 | U | 10 | U | - | - | - | - |
| | 8/12-14/02 | DRY | | 17 | | 10 | U | 10 | | DRY | | 10 | U | - | - | - | - |
| | 1/21-22/03 | 10 | U | 9 | J | 10 | U | 7 | J | 10 | U | 10 | U | - | - | - | - |
| | 7/14-15/03 | 10 | U | 12 | | 10 | U | 8 | J | 10 | U | 10 | U | - | - | - | - |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 6 | J | 10 | U | 10 | U | - | - | - | - |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 1 | J | 10 | U | DRY | | - | - | - | - |
| | 3/30-31/05 | 10 | U | 8 | J | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 10/3-4/05 | 10 | U | 9 | J | 10 | U | 3 | J | 10 | U | 10 | U | - | - | - | - |
| | 4/4-5/06 | 10 | U | 7 | J | 10 | U | 3 | J | 10 | U | NS | | - | - | - | - |
| | 9/27-28/06 | 10 | U | 6 | J | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - |
| | 4/2-3/07 | 10 | U | 5 | J | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - |
| | 9/18-19/07 | 10 | U | 6 | J | 10 | U | 3 | J | 10 | U | 10 | U | - | - | - | - |
| 3/11/08 | 10 | U | 3 | J | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |

Watauga County, North Carolina
 Upgradient Well: MW-1
 04/27/09

Table 5C
 Background Assessment Organic Target Parameter Analytical Results
 Surface Water Sampling Locations
 Results ug/l(ppb)

| Parameter | Event | S1 | | S2 | | S3 | | S4 | | S5 | | S6 | | L1 | | Mt. Spring | |
|---|------------|-----|----|----|----|----|----|----|----|-----|----|-----|----|----|----|------------|---|
| | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene WQS = 3.2 ug/l | 6/20/94 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | - | - |
| | 9/27/94 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | U | 10 | U |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | 10 | U | - | - |
| | 4/11/95 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | - | - |
| | 4/10/96 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/8/97 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 6/23/98 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - |
| | 1/12/99 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/12/99 | 10 | U | 17 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/1/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | UJ | - | - | - | - |
| | 8/8/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/12-14/01 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/11-14/02 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 8/12-14/02 | DRY | - | 10 | U | 10 | U | 10 | U | DRY | - | 10 | U | - | - | - | - |
| | 1/21-22/03 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/14-15/03 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | - | - | - | - | - |
| | 3/30-31/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | - | - | - | - | - |
| | 10/3-4/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/4-5/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | NS | - | - | - | - | - |
| | 9/27-28/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/2-3/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| 9/18-19/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 3/11/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| cis-1,2-Dichloroethene (2) WQS = 140000 ug/l | 6/20/94 | 10 | U | 4 | J | 10 | U | 58 | | 10 | U | - | - | - | - | - | - |
| | 9/27/94 | - | - | - | - | - | - | - | - | - | - | - | 10 | U | 10 | U | - |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 42 | | 10 | U | - | - | 10 | U | - | - |
| | 4/11/95 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7/10/95 | 1 | J | 3 | J | 10 | U | 42 | | 10 | U | - | - | - | - | - | - |
| | 4/10/96 | 10 | U | 5 | J | 10 | U | 35 | | 10 | U | 16 | - | - | - | - | - |
| | 4/8/97 | 10 | U | 6 | J | 10 | U | 15 | | 10 | U | 16 | - | - | - | - | - |
| | 1/15/98 | 10 | U | 5 | J | 10 | U | 1 | J | 10 | U | 10 | U | - | - | - | - |
| | 6/23/98 | 10 | UJ | 4 | J | 10 | UJ | 21 | J | 10 | UJ | 10 | UJ | - | - | - | - |
| | 1/12/99 | 10 | U | 4 | J | 10 | U | 30 | | 10 | U | 2 | J | - | - | - | - |
| | 7/12/99 | 10 | U | 5 | J | 10 | U | 8 | J | 10 | U | 10 | U | - | - | - | - |
| | 2/1/00 | 4 | J | 4 | J | 10 | U | 25 | | 10 | U | 2 | J | - | - | - | - |
| | 8/8/00 | 10 | U | 2 | J | 10 | U | 27 | | 10 | U | 2 | J | - | - | - | - |
| | 2/12-14/01 | 10 | U | 2 | J | 10 | U | 28 | | 10 | U | 2 | J | - | - | - | - |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 14 | | 10 | U | 3 | J | - | - | - | - |
| | 2/11-14/02 | 10 | U | 2 | J | 10 | U | 17 | | 10 | U | 2 | J | - | - | - | - |
| | 8/12-14/02 | DRY | - | 3 | J | 10 | U | 22 | | DRY | - | 3 | J | - | - | - | - |
| | 1/21-22/03 | 10 | U | 3 | J | 10 | U | 18 | | 10 | U | 0.7 | J | - | - | - | - |
| | 7/14-15/03 | 10 | U | 3 | J | 10 | U | 15 | | 10 | U | 10 | U | - | - | - | - |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 16 | | 10 | U | 10 | U | - | - | - | - |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 3 | J | 10 | U | DRY | - | - | - | - | - |
| | 3/30-31/05 | 10 | U | 3 | J | 10 | U | 8 | J | 10 | U | DRY | - | - | - | - | - |
| | 10/3-4/05 | 10 | U | 2 | J | 10 | U | 5 | J | 10 | U | 10 | U | - | - | - | - |
| | 4/4-5/06 | 10 | U | 2 | J | 10 | U | 7 | J | 10 | U | NS | - | - | - | - | - |
| | 9/27-28/06 | 10 | U | 1 | J | 10 | U | 6 | J | 10 | U | 10 | U | - | - | - | - |
| | 4/2-3/07 | 10 | U | 1 | J | 10 | U | 7 | J | 10 | U | 10 | U | - | - | - | - |
| 9/18-19/07 | 10 | U | 10 | U | 10 | U | 5 | J | 10 | U | 10 | U | - | - | - | - | |
| 3/11/08 | 10 | U | 10 | U | 10 | U | 6 | J | 10 | U | 10 | U | - | - | - | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 3 | J | 10 | U | 10 | U | - | - | - | - | |

Watauga County, North Carolina
 Upgradient Well: MW-1
 04/29/09

Table 5C
 Background Assessment Organic Target Parameter Analytical Results
 Surface Water Sampling Locations

Results ug/l(ppb)

| Parameter | Event | S1 | | S2 | | S3 | | S4 | | S5 | | S6 | | L1 | | Mt. Spring | |
|---|------------|-----|-----|----|----|----|----|-----|----|-----|----|-----|----|----|---|------------|---|
| | | | | | | | | | | | | | | | | | |
| Methylene Chloride WQS = 1600 ug/l | 6/20/94 | 6 | J | 9 | J | 3 | J | 1 | J | 8 | J | - | - | - | - | - | - |
| | 9/27/94 | - | | - | | - | | - | | - | | - | - | 10 | U | 10 | U |
| | 2/06/95 | 10 | U | 2 | J | 3 | J | 1 | J | 10 | U | - | - | 10 | U | - | - |
| | 4/11/95 | - | | - | | - | | - | | - | | - | - | - | - | - | - |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | - | - |
| | 4/10/96 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/8/97 | 10 | U | 3 | J | 1 | J | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 1/15/98 | 1 | J | 4 | J | 4 | J | 1 | J | 2 | J | 2 | J | - | - | - | - |
| | 6/23/98 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - |
| | 1/12/99 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/12/99 | 10 | U | 17 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/1/00 | 10 | U | 10 | UJ | 10 | UJ | 10 | UJ | 10 | U | 10 | UJ | - | - | - | - |
| | 8/8/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/12-14/01 | 10 | U | 3 | J | 10 | U | 10 | U | 2 | J | 10 | U | - | - | - | - |
| | 8/7-8/01 | 10 | U | 3 | J | 10 | U | 10 | U | 1 | J | 10 | U | - | - | - | - |
| | 2/11-14/02 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 8/12-14/02 | DRY | | 10 | U | 10 | U | 10 | U | DRY | | 10 | U | - | - | - | - |
| | 1/21-22/03 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/14-15/03 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 3/30-31/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 10/3-4/05 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/4-5/06 | 10 | U | 1 | J | 10 | U | 10 | U | 10 | U | NS | | - | - | - | - |
| | 9/27-28/06 | 2 | J | 2 | J | 1 | J | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/2-3/07 | 10 | U | 1 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| 9/18-19/07 | 10 | U | 0.9 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 3/11/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| | | | | | | | | | | | | | | | | | |
| Tetrachloroethene WQS = 8.84 ug/l | 6/20/94 | 10 | U | 10 | U | 10 | U | 18 | | 10 | U | - | - | - | - | - | - |
| | 9/27/94 | - | | - | | - | | - | | - | | - | - | 10 | U | 10 | U |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 12 | | 10 | U | - | - | 10 | U | - | - |
| | 4/11/95 | - | | - | | - | | - | | - | | - | - | - | - | - | - |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 11 | | 10 | U | - | - | - | - | - | - |
| | 4/10/96 | 10 | U | 10 | U | 10 | U | 9 | J | 1 | J | 4 | J | - | - | - | - |
| | 4/8/97 | 10 | U | 10 | U | 10 | U | 4 | J | 10 | U | 4 | J | - | - | - | - |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 6/23/98 | 10 | UJ | 10 | UJ | 10 | UJ | 5 | J | 10 | UJ | 10 | UJ | - | - | - | - |
| | 1/12/99 | 10 | U | 10 | U | 10 | U | 6 | J | 10 | U | 10 | U | - | - | - | - |
| | 7/12/99 | 10 | U | 17 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - |
| | 2/1/00 | 10 | U | 10 | U | 10 | U | 3 | J | 10 | U | 10 | UJ | - | - | - | - |
| | 8/8/00 | 10 | U | 10 | U | 10 | U | 4 | J | 10 | U | 10 | U | - | - | - | - |
| | 2/12-14/01 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - |
| | 2/11-14/02 | 10 | U | 10 | U | 10 | U | 3 | J | 10 | U | 10 | U | - | - | - | - |
| | 8/12-14/02 | DRY | | 10 | U | 10 | U | 2 | J | DRY | | 10 | U | - | - | - | - |
| | 1/21-22/03 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - |
| | 7/14-15/03 | 10 | U | 10 | U | 10 | U | 1 | J | 10 | U | 10 | U | - | - | - | - |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | - | - | - |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 3/30-31/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 10/3-4/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/4-5/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | NS | | - | - | - | - |
| | 9/27-28/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/2-3/07 | 10 | U | 10 | U | 10 | U | 0.5 | J | 10 | U | 10 | U | - | - | - | - |
| 9/18-19/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 3/11/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |

Watauga County, North Carolina
 Upgradient Well: MW-1
 04/29/09

Table 5C
 Background Assessment Organic Target Parameter Analytical Results
 Surface Water Sampling Locations
 Results ug/l(ppb)

| Parameter | Event | S1 | | S2 | | S3 | | S4 | | S5 | | S6 | | L1 | | Mt. Spring | |
|---|------------|-----|----|-----|----|----|----|-----|----|-----|----|-----|----|----|---|------------|---|
| | | U | | U | | U | | U | | U | | U | | U | | U | |
| Trichloroethene WQS = 92.4 ug/l | 6/20/94 | 10 | U | 1 | J | 10 | U | 13 | | 10 | U | - | | - | | - | |
| | 9/27/94 | - | | - | | - | | - | | - | | - | | 10 | U | 10 | U |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 8 | J | 10 | U | - | | 10 | U | - | |
| | 4/11/95 | - | | - | | - | | - | | - | | - | | - | | - | |
| | 7/10/95 | 10 | U | 1 | J | 10 | U | 8 | J | 10 | U | - | | - | | - | |
| | 4/10/96 | 10 | U | 1 | J | 10 | U | 6 | J | 1 | J | 3 | J | - | | - | |
| | 4/8/97 | 10 | U | 1 | J | 10 | U | 3 | J | 10 | U | 3 | J | - | | - | |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 6/23/98 | 10 | UJ | 10 | UJ | 10 | UJ | 3 | J | 10 | UJ | 10 | UJ | - | | - | |
| | 1/12/99 | 10 | U | 10 | U | 10 | U | 4 | J | 10 | U | 10 | U | - | | - | |
| | 7/12/99 | 10 | U | 17 | U | 10 | U | 1 | J | 10 | U | 10 | U | - | | - | |
| | 2/1/00 | 10 | U | 10 | U | 10 | U | 3 | J | 10 | U | 10 | UJ | - | | - | |
| | 8/8/00 | 10 | U | 10 | U | 10 | U | 3 | JB | 10 | U | 10 | UJ | - | | - | |
| | 2/12-14/01 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | | - | |
| | 2/11-14/02 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | | - | |
| | 8/12-14/02 | DRY | | 10 | U | 10 | U | 10 | U | DRY | | 10 | U | - | | - | |
| | 1/21-22/03 | 10 | U | 0.5 | J | 10 | U | 2 | J | 10 | U | 10 | U | - | | - | |
| | 7/14-15/03 | 10 | U | 10 | U | 10 | U | 1 | J | 10 | U | 10 | U | - | | - | |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | 10 | U | - | | - | |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | | - | |
| | 3/30-31/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | | - | |
| | 10/3-4/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 4/4-5/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | NS | | - | | - | |
| | 9/27-28/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 4/2-3/07 | 10 | U | 10 | U | 10 | U | 0.6 | J | 10 | U | 10 | U | - | | - | |
| | 9/18-19/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 3/11/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | | |
| | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane WQS = 555 ug/l | 6/20/94 | 10 | U | 2 | J | 10 | U | 3 | J | 10 | U | - | | - | | - | |
| | 9/27/94 | - | | - | | - | | - | | - | | - | | 10 | U | 10 | U |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | - | | 10 | U | - | |
| | 4/11/95 | - | | - | | - | | - | | - | | - | | - | | - | |
| | 7/10/95 | 10 | U | 1 | J | 10 | U | 2 | J | 10 | U | - | | - | | - | |
| | 4/10/96 | 10 | U | 10 | U | 10 | U | 2 | J | 2 | J | 1 | J | - | | - | |
| | 4/8/97 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 1 | J | - | | - | |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | - | | - | |
| | 6/23/98 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | | - | |
| | 1/12/99 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 7/12/99 | 10 | U | 17 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 2/1/00 | 10 | U | 10 | U | 10 | U | 10 | U | 3 | J | 10 | UJ | - | | - | |
| | 8/8/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | UJ | - | | - | |
| | 2/12-14/01 | 10 | U | 10 | U | 10 | U | 3 | J | 3 | J | 10 | U | - | | - | |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | UJ | - | | - | |
| | 2/11-14/02 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 8/12-14/02 | DRY | | 10 | U | 10 | U | 10 | U | DRY | | 10 | U | - | | - | |
| | 1/21-22/03 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 7/14-15/03 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 10 | U | 5 | J | 10 | U | - | | - | |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | | - | |
| | 3/30-31/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | | - | |
| | 10/3-4/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 4/4-5/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | NS | | - | | - | |
| | 9/27-28/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 4/2-3/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| | 9/18-19/07 | 10 | U | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | - | | - | |
| | 3/11/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | | - | | |
| | | | | | | | | | | | | | | | | | |

Watauga County, North Carolina
 Upgradient Well: MW-1
 04/27/09

Table 5C
 Background Assessment Organic Target Parameter Analytical Results
 Surface Water Sampling Locations
 Results ug/l(ppb)

| Parameter | Event | S1 | | S2 | | S3 | | S4 | | S5 | | S6 | | L1 | | Mt. Spring | |
|--------------------------------------|------------|-----|----|-----|----|----|----|----|----|-----|----|-----|----|----|---|------------|---|
| | | | | | | | | | | | | | | | | | |
| Vinyl Chloride WQS = 525 ug/l | 6/20/94 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | - | - |
| | 9/27/94 | - | | - | | - | | - | | - | | - | - | 10 | U | 10 | U |
| | 2/06/95 | 10 | U | 10 | U | 10 | U | 2 | J | 10 | U | - | - | 10 | U | - | - |
| | 4/11/95 | - | | - | | - | | - | | - | | - | - | - | - | - | - |
| | 7/10/95 | 10 | U | 10 | U | 10 | U | 3 | J | 10 | U | - | - | - | - | - | - |
| | 4/10/96 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/8/97 | 10 | U | 2 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 1/15/98 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 6/23/98 | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | - | - | - | - |
| | 1/12/99 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/12/99 | 10 | U | 17 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/1/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | UJ | 10 | UJ | - | - | - | - |
| | 8/8/00 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/12-14/01 | 10 | U | 10 | U | 10 | U | 10 | U | 4 | J | 10 | U | - | - | - | - |
| | 8/7-8/01 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 2/11-14/02 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 8/12-14/02 | DRY | | 10 | U | 10 | U | 10 | U | DRY | | 10 | U | - | - | - | - |
| | 1/21-22/03 | 10 | U | 0.9 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 7/14-15/03 | 10 | U | 1 | J | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 3/16-17/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 9/29-30/04 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 3/30-31/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | DRY | | - | - | - | - |
| | 10/3-4/05 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/4-5/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | NS | | - | - | - | - |
| | 9/27-28/06 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 4/2-3/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 9/18-19/07 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| | 3/11/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - |
| 9/8-9/08 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | - | - | - | - | |

TABLE 5B NOTES:

U Denotes not detected (the associated numerical value is the CRQL).

J Denotes an estimated value

CRQL Contract Required Quantification Limit (CLP Methods)

- Denotes Not Available or Not Sampled

WQS Denotes North Carolina Surface Water Quality Standard (T15A: 02B .0200)

Shading Denotes results that exceed North Carolina Surface Water Quality Standard.

ANALYSIS TYPE:

- 1) Organic parameters were analyzed utilizing CLP Statement of Work OLMO3.2.
- 2) For CLP analyses, 1,2-Dichloroethene is reported as total concentration.

APPENDIX B

FIELD NOTES

11/10/09

Watauga Co LF

FR# 2

6520-39
GJB/DAS

General Notes

Weather - Overcast, 50's

PPE - Eye Protection, Nitrile gloves

Calibrations - YSI 650 MDS

pH - 4.00 = 4.00, 7.00 = 7.02, 10.00 = 9.99

Conductivity reads 1412 us in 1413 us std

DO % = 100

Static Water Level Table

| WELL | DTW | Notes |
|-------|-------|-------|
| MW-2 | 5.83 | |
| MW-3 | 18.83 | |
| MW-8 | 25.14 | |
| MW-9 | 64.42 | |
| MW-12 | 10.90 | |
| MW-17 | 19.25 | |

MW-9

TD = 86.40

Begin Purge (1147)

DTW = 64.42

Initial Purge - Clear

 $21.98 \times 0.163 = 3.58 \times 3 = 10.74$ gallons

| Time | Temp (°C) | pH | Cond (us) | DO (%) | ORP (mV) | Purge K(gpm) | Vol (gal) | Desc |
|------|-----------|------|-----------|--------|----------|--------------|-----------|-------|
| 1148 | 12.65 | 5.43 | 296 | 7.30 | 110.1 | 0.50 | 0.50 | Clear |
| 1155 | 14.00 | 5.39 | 251 | 6.35 | 80.4 | " | 4.0 | Clear |
| 1202 | 14.56 | 5.49 | 253 | 6.00 | 71.5 | " | 7.5 | Clear |
| 1209 | 14.50 | 5.52 | 275 | 5.82 | 70.6 | " | 11.0 | Clear |

(1209) Well purged @ 11 gallons

6520-39
GJB/DAS6520-39
GJB/DAS6520-39
GJB/DAS

3/11/09

Watauga Co LF

+ BTW d

6520-39
GJB/DAS

MW-2

TD = 177.50

DTW = 5.83

Begin Purge (1231)

Initial Purge -

 $171.67 \times 0.163 = 111.58 \times 3 = 334.76$ gallons

| Time | Temp (°C) | Cond (us) | DO (%) | pH | ORP (mV) | Purge K(gpm) | Vol (gal) | Desc |
|--------|-----------|-----------|--------|------|----------|--------------|-----------|-------|
| (1235) | 11.80 | 231 | 5.54 | 7.22 | 8.7 | 3.0 | 12.0 | Clear |
| (1309) | 11.94 | 215 | 6.40 | 7.27 | 45.8 | " | 112.0 | Clear |
| (1347) | 12.34 | 214 | 5.69 | 7.39 | 52.7 | " | 224.0 | Clear |
| (1411) | 12.37 | 214 | 5.85 | 7.41 | 47.4 | " | 300.0 | Clear |

(1411) Well purged **DRY!!** @ ≈ 300.0 gallons

MW-8

TD: 67.00

Begin Purge (1422)

DTW: 25.14

Initial Purge: Light Brown (Tannin Color)

 $41.84 \times 0.163 = 6.82 \times 3 = 20.47$ gallons

| Time | Temp (°C) | Cond (us) | DO (%) | pH | ORP (mV) | Purge K(gpm) | Vol (gal) | Desc |
|--------|-----------|-----------|--------|------|----------|--------------|-----------|------|
| (1423) | 13.24 | 157 | 5.03 | 6.56 | 66.0 | 0.5 | 0.5 | L/L |
| (1427) | 14.08 | 157 | 5.30 | 6.59 | 60.4 | 0.5 | 2.5 | " |
| (1431) | 14.50 | 156 | 5.72 | 6.65 | 61.5 | 0.5 | 5.0 | " |
| (1435) | 14.42 | 158 | 5.89 | 6.62 | 62.3 | 0.5 | 7.5 | " |

(1435) Well purged **DRY!!** at ≈ 7.5 gallons.

MW-17

TD: 94.54

Begin Purge: (1455)

DTW: 19.25

Initial Purge: Clear

 $75.29 \times 0.163 = 12.27 \times 3 = 36.82$ gallons

| Time | Temp (°C) | Cond (us) | DO (%) | pH | ORP (mV) | Purge K(gpm) | Vol (gal) | Desc |
|--------|-----------|-----------|--------|------|----------|--------------|-----------|-------|
| (1457) | 12.27 | 201 | 7.78 | 5.67 | 125.4 | 1.0 | 2.0 | Clear |
| (1507) | 12.72 | 201 | 7.00 | 5.78 | 131.7 | 1.0 | 12.0 | Clear |
| (1511) | 12.87 | 203 | 6.78 | 5.84 | 126.7 | 1.0 | 16.0 | Clear |

(1511) Well purged **DRY!!** @ ≈ 16.0 gallons.6520-39
GJB/DAS

MW-3

TD: 39.60
DTW: 18.83

Begin Purge: (15:15)
Initial Purge: Clear

$20.77 \times 0.163 = 3.39 \times 3 = 10.16$ gallons

| Time | Temp(°C) | Cond(µS) | DO(mg/L) | pH | ORP(mV) | Purge K(gpm) | Vol(gal) | Desc. |
|-------|----------|----------|----------|------|---------|--------------|----------|------------|
| 15:16 | 12.04 | 257 | 6.68 | 5.73 | 144.1 | 0.5 | 0.5 | Sl. Cloudy |
| 15:23 | 12.41 | 257 | 6.55 | 5.75 | 154.9 | 0.5 | 4.0 | Sl. Cloudy |
| 15:31 | 12.52 | 258 | 6.44 | 5.76 | 162.4 | 0.5 | 8.0 | Sl. Cloudy |
| 15:37 | 12.55 | 258 | 6.40 | 5.77 | 164.8 | 0.5 | 11.0 | Sl. Cloudy |

15:37) Well purged @ ≈ 11.0 gallons.

MW-12

TD: 72.75
DTW: 16.90

Begin Purge: (15:45)
Initial Purge: Clear

$61.85 \times 0.163 = 10.08 \times 3 = 30.24$ gallons

| Time | Temp(°C) | Cond(µS) | DO(mg/L) | pH | ORP(mV) | Purge K(gpm) | Vol(gal) | Desc. |
|-------|----------|----------|----------|------|---------|--------------|----------|-------|
| 15:46 | 11.98 | 403 | 4.20 | 5.91 | 106.6 | 2 | 2 | Clear |
| 15:50 | 12.21 | 399 | 4.95 | 5.90 | 142.2 | 2 | 10 | Clear |
| 15:55 | 12.22 | 397 | 5.29 | 5.90 | 158.4 | 2 | 20 | Clear |
| 16:01 | 12.25 | 397 | 5.46 | 5.89 | 162.9 | 2 | 32 | Clear |

16:01 Well purged @ ≈ 32.0 gallons

General Notes:

Weather: Overcast 40-50's

PPE: Eye Protection, Nitrile Gloves

Calibrations: YSI 650 MDS

↳ pH: 4.00 = 4.00, 7.00 = 7.00, 10.00 = 10.00

↳ Conductivity reads 1414 µS in 1413 µS standard.

↳ DO % = 100 %

Spring Sample Table

| Spring # | Temp(°C) | Cond(µS) | DO(mg/L) | pH | ORP(mV) | Sample Date/Time | Samples Collected | Notes |
|----------|----------|----------|----------|------|---------|------------------|-------------------|-------------------|
| S-1 | 10.58 | 153 | 8.54 | 7.43 | 8.3 | 03/12/09/(0915) | (3) | CLP vol. OLMO 4.1 |
| S-2 | 13.36 | 434 | 5.91 | 6.02 | -41.8 | 03/12/09/(0925) | (3) | " " |
| S-3 | 11.40 | 336 | 8.30 | 7.29 | -64.1 | 03/12/09/(0900) | (3) | " " |
| S-4 | 12.00 | 203 | 7.40 | 5.98 | +105.1 | 03/12/09/(1000) | (3) | " " |
| S-5 | 11.07 | 207 | 5.25 | 6.23 | -11.8 | 03/12/09/(0940) | (3) | " " |
| S-6 | 8.85 | 236 | 6.82 | 6.31 | -32.1 | 03/12/09/(1020) | (3) | " " |

Residence Sample Table

| Residence | Sample Date/Time | Samples Collected | Notes |
|------------|------------------|-------------------|-----------------------------------|
| Res 1 | 03/12/09/(1415) | (3) VOA 524.2 | |
| Res 2 | 03/12/09/(1405) | (3) " " | |
| Res 15 | 03/12/09/(1058) | (3) " " | |
| Res 16 | 03/12/09/(1040) | (3) " " | |
| Res 21 | 03/12/09/() | (3) " " | No longer sampling per MFS. White |
| H+G(#6) | 03/12/09/(1440) | (3) " " | |
| Branco(#5) | 03/12/09/(1355) | (3) " " | sampled @ 32' w/ hydrok |

Res 21
** Residence Notes: Spoke with Amanda White, relative and property manager for Mr. Findt. She requested we no longer sample the house

* S-5: Normal sample location was DRY we sampled from spring seep 10ft away

*** S-4 collected from stream, spring seep was DRY! (65)

(63)

3/12/09

Watauga Co LF

6520-39

CJB/DAS

FB#2

MW-9

Sample Time: (1140)

Samples Collected: (3) 8260, (1) TM

~~3/12/09~~

MW-12

Sample Time: (1215)

Samples Collected: (3) 8260, (1) TM

MW-8

Sample Time: (1240)

Samples Collected: (3) 8260, (1) TM

MW-17

Sample Time: (1305)

Samples Collected: (3) 8260, (1) TM

MW-3

Sample Time: (1320)

Samples Collected: (4) 8260, (3) TM

MW-12

Sample Time: (1345)

Samples Collected: (3) 8260, (1) TM

COMPLETED

3/19/09 2310

(64)

(67)

APPENDIX C

**PREVIOUS LANDFILL GROUNDWATER ORGANIC ANALYSIS
SUMMARY TABLE
(1990-1993)**

ORGANIC CONSTITUENTS DETECTED
 December 11, 1990, November 16-18, 1992 and March 3, 1993 SAMPLING EVENTS

| Analyte | Date Sampled | Analytical Method | MDL | MW-1 | MW-2 | MW-3 | MW-4 | PZ-24 | NCS | MCL | TRIP |
|------------------------|----------------------|----------------------------------|---------------|------|-------|-------|------|-------|------------------|-----|------|
| Trichloroethene | December 11, 1990 | SW846 Method 8240 | 5 | | | 9 | | --- | 2.8 | 5 | |
| (TCE) | November 16-18, 1992 | SW846 Method 8010 | 1 | | | 23 | | 110 | 2.8 | 5 | |
| | March 5, 1993 | EPA Method 502.2 | 0.2 | 0.4 | 2.4 | 18.1 | 0.7 | | 2.8 | 5 | |
| | March 5, 1993 | SW846 Method 8021 | 0.2 | | 2.1 | 15.7 | 0.8 | 79.5 | 2.8 | 5 | |
| 1,1,1-Trichloroethane | December 11, 1990 | SW846 Method 8240 | 5 | | 394 | 102 | | | 200 | 200 | |
| (1,1,1-TCA) | November 16-18, 1992 | SW846 Method 8010 | 1 | | 980 | 68 | 6 | | 200 | 200 | |
| | March 5, 1993 | EPA Method 502.2 | 0.4 | | 1646 | 19.0 | 10.5 | | 200 | 200 | |
| | March 5, 1993 | SW846 Method 8021 | 0.4 | | 1212 | 19.0 | 22.5 | 1.4 | 200 | 200 | |
| Tetrachloroethene | December 11, 1990 | SW846 Method 8240 | 5 | | 7 | 25 | | | 0.7 | 5 | |
| (PCE) | November 16-18, 1992 | SW846 Method 8010 | 1 | | 5 | 39 | | 4 | 0.7 | 5 | |
| | March 5, 1993 | EPA Method 502.2 | 0.5 | 0.5 | 11.2 | | 1.6 | | 0.7 | 5 | |
| | March 5, 1993 | SW846 Method 8021 | 0.5 | | 11.8 | 24.9 | 1.6 | 12.5 | 0.7 | 5 | |
| 1,1-Dichloroethane | December 11, 1990 | SW846 Method 8240 | 5 | | 52 | 178 | | | 700 ¹ | ... | |
| (1,1-DCA) | November 16-18, 1992 | SW846 Method 8010 | 1 | | 41 | 250 | | 81 | 700 ¹ | ... | |
| | March 5, 1993 | EPA Method 502.2 | 0.7 | | 96 | 173.3 | 1.2 | 77 | 700 ¹ | ... | |
| | March 5, 1993 | SW846 Method 8021 | 0.7 | | 82 | 161 | 1.1 | 43.7 | 700 ¹ | ... | |
| 1,1-Dichloroethene | December 11, 1990 | SW846 Method 8240 | 5 | | 80 | 7 | | | 7 | 7 | |
| (1,1-DCE) | November 16-18, 1992 | SW846 Method 8010 | 1 | | 110 | 14 | | | 7 | 7 | |
| | March 5, 1993 | EPA Method 502.2 | 0.7 | | 232 | 10.3 | 5.1 | 0.9 | 7 | 7 | |
| | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.7 *(0.3) | | 143.6 | 9 | 4.5 | | 7 | 7 | |
| cis-1,2-Dichloroethene | March 5, 1993 | EPA Method 502.2 | 0.7 | 0.7 | 1.4 | 36.4 | | 225 | 70 | 70 | |
| (cis-1,2-DCE) | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.7 *(0.7) | | 1 | 26.6 | | 87.8 | 70 | 70 | |

Note: All Concentrations are in ppb (µg/L) (other footnotes located on page 4)

ORGANIC CONSTITUENTS DETECTED
DECEMBER 11, 1990, NOVEMBER 16-18, 1992 AND MARCH 5, 1993 SAMPLING EVENTS

| Analyte | Date Sampled | Analytical Method | MDL | MW-1 | MW-2 | MW-3 | MW-4 | PZ-24 | NCS | MCL | TRIP |
|---------------------------|----------------------|----------------------------------|---------------|------|------|------|------|-------|------|-----|------|
| Methylene Chloride | December 11, 1990 | SW846 Method 8240 | 5 | | | 23 | | --- | 5 | 5 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | 16 | | 15 | 5 | 5 | |
| | March 5, 1993 | EPA Method 502.2 | 0.6 | | 4.2 | 9.4 | | | 5 | 5 | |
| | March 5, 1993 | SW846 Method 8021 | 0.6 | | | | | | 5 | 5 | |
| Vinyl Chloride | December 11, 1990 | SW846 Method 8240 | 10 | | | | | --- | .015 | 2 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | 3 | | 12 | .015 | 2 | |
| | March 5, 1993 | EPA Method 502.2 | 0.4 | | | 3.4 | | 18.3 | .015 | 2 | 2.6 |
| | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.4 *(1.0) | | | | | | .015 | 2 | |
| Dichlorodifluoromethane | December 11, 1990 | SW846 8240 | 5 | | | 21 | | --- | 0.19 | --- | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | | | | 0.19 | --- | |
| | March 5, 1993 | EPA Method 502.2 | 0.8 | | | 11.8 | | 6.9 | 0.19 | --- | |
| | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.8 *(0.8) | | | | | | 0.19 | --- | |
| Chloroethane | December 11, 1990 | SW846 Method 8240 | 10 | | | | | --- | --- | --- | |
| | November 16-18, 1992 | SW846 8010 | 1 | | | 5 | | 8 | --- | --- | |
| | March 5, 1993 | EPA Method 502.2 | 1.4 | | 2.6 | | | | --- | --- | |
| | March 5, 1993 | SW846 method 8021 and *(8240) | 1.4 *(10) | | | | | | --- | --- | |
| Trans-1,3-Dichloropropene | December 11, 1990 | SW846 Method 8240 | 5 | | | 9.1 | | --- | 70 | 100 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | | | 3 | 70 | 100 | |
| | March 5, 1993 | EPA Method 502.2 | 0.7 | | | 0.9 | | 5.5 | 70 | 100 | |
| | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.7 *(0.7) | | | | | | 70 | 100 | |

Note: All Concentrations are in ppb (ug/L) (other footnotes located on page 4)

LANDFILL GROUNDWATER
ORGANIC CONSTITUENTS DETECTED
 DECEMBER 11, 1990, NOVEMBER 16-18, 1992 AND MARCH 5, 1993 SAMPLING EVENTS

| Analyte | Date Sampled | Analytical Method | MDL | MW-1 | MW-2 | MW-3 | MW-4 | PZ-24 | NCS | MCL | TRIP |
|----------------------------|----------------------|----------------------------------|---------------|------|------|------|------|-------|------|-----|------|
| Benzene | December 11, 1990 | SW846 Method 8240 | 5 | | | | | ... | 1.0 | 5 | |
| | March 5, 1993 | EPA Method 502.2 | 0.1 | | | 1.5 | 0.5 | 6.3 | 1.0 | 5 | |
| | March 5, 1993 | SW846 Method 8021 | 0.1 | | | 1.3 | | 6.3 | 1.0 | 5 | |
| 1,4-Dichlorobenzene | November 15-18, 1992 | SW846 Method 8010 | 0.3 | | | 0.5 | | | 0.19 | 75 | |
| | March 5, 1993 | EPA Method 502.2 | 0.5 | | 0.8 | | | | 1.8 | 75 | |
| | March 5, 1993 | SW846 Method 8021 | 0.5 | | | | | | 1.8 | 75 | |
| Chloroform | December 11, 1990 | SW846 Method 8240 | 5 | | | | | ... | 0.19 | 100 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | | 2 | 1 | 0.19 | 100 | 3 |
| | March 5, 1993 | EPA Method 502.2 | 0.3 | | | | | | 0.19 | 100 | |
| | March 5, 1993 | SW846 Method 8021 | 0.3 | | | 0.5 | | | 0.19 | 100 | |
| 1,2-Dichloropropane | December 11, 1990 | SW846 Method 8240 | 5 | | | | | ... | 0.56 | 5 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | | | | 0.56 | 5 | |
| | March 5, 1993 | EPA Method 502.2 | 0.3 | | 0.3 | 0.3 | | | 0.56 | 5 | |
| | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.3 *(0.3) | | | | | | 0.56 | 5 | |
| 2,2-Dichloropropane | March 5, 1993 | EPA Method 502.2 | 0.7 | 0.7 | 1.4 | | | | ... | ... | |
| | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.7 *(0.7) | | | | | | ... | ... | |
| 1,1-Dichloropropene | March 5, 1993 | SW846 Method 8240 | 0.5 | 3.8 | | | | | ... | ... | |
| Bis(2-ethylhexyl)phthalate | March 5, 1993 | SW846 Method 8270 | 2 | | 20 | | | | ... | ... | |
| Xylenes, Total | March 5, 1993 | SW846 Method 8021 | 0.4 | | | | | 1 | 0.4 | 10 | |
| 4,4'-DDD | March 5, 1993 | SW846 Method 8080 | 0.1 | | | | | 0.1 | ... | ... | |

UNSATURATED GROUNDWATER
ORGANIC CONSTITUENTS DETECTED
 DECEMBER 11, 1990, NOVEMBER 16-18, 1992 AND MARCH 5, 1993 SAMPLING EVENTS

| Analyte | Date Sampled | Analytical Method | MDL | MW-1 | MW-2 | MW-3 | MW-4 | PZ-24 | NCS | MCL | TRIP |
|----------------------|----------------------|----------------------------------|---------------|------|------|------|------|-------|------|-----|------|
| Bromodichloromethane | December 11, 1990 | SW846 Method 8240 | 5 | | | | | --- | --- | 100 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | | | | --- | 100 | |
| | March 5, 1993 | EPA Method 502.2 | 0.3 | | 0.6 | | | | --- | 100 | |
| Carbon Tetrachloride | December 11, 1990 | SW846 Method 8240 | 5 | | | | | --- | 0.3 | 5 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | | | | 0.3 | 5 | |
| | March 5, 1993 | EPA Method 502.2 | 0.1 | | | 0.2 | 0.2 | 0.3 | 0.3 | 5 | |
| | March 5, 1993 | SW846 Method 8021 | 0.1 | | | | | | 0.3 | 5 | |
| 1,2-Dichloroethane | December 11, 1990 | SW846 Method 8240 | 5 | | | | | --- | 0.38 | 5 | |
| | November 16-18, 1992 | SW846 Method 8010 | 1 | | | 1 | | | 0.38 | 5 | |
| | March 5, 1993 | EPA Method 502.2 | 0.3 | | 0.3 | | | | 0.38 | 5 | |
| | March 5, 1993 | SW846 Method 8021 and *(8240) | 0.3 *(0.3) | | . | . | | . | 0.38 | 5 | |

PA SW-846 Methods 8011, 8030, 8040, 8090, 8120, 8150, and 8310 were Also Performed on Samples Collected on March 5, 1993, Resulting in No Analytes Detected

- MDL Analytical Method Detection Limit
- NCS North Carolina Water Quality Standard (DEHNR: 15A NCAC 2L .0202)
- MCL EPA Primary Drinking Water Standard Maximum Contaminant Level

December 11, 1990 Sampling Event - Conducted by Engineering Tectonics and split-sampled with the NCDEHNR Solid Waste Section - Analysis performed by the North Carolina State Laboratory of Public Health.
 November 16-18, 1992 and March 5, 1993 Sampling Event - Conducted by Draper Aden Associates - Analysis performed by Central Virginia Laboratories and Consultants, Inc. (CVLC).
 EPA Metho 502.2 Co-elutes compounds cis-1,2-Dichloroethene and 2,2-Dichloropropane

denotes estimated result
 denotes proposed NCS
 denotes *(method) utilized and analyte not detected

APPENDIX D

**POTABLE WELL ORGANIC ANALYSIS SUMMARY TABLE
(1993-2009)**

**PRIVATE WELL TESTING - WATAUGA COUNTY, NC
RESULTS OF VOLATILE AND SEMIVOLATILE ANALYSIS**

| CONSTITUENT | MARCH 5, 1993* | MARCH 18, 1993* | MARCH 24, 1993* | JUNE 23, 1993** | JULY 13, 1994** | NCS | MCL |
|---|----------------|-----------------|-----------------|-----------------|-----------------|-------|--------|
| Carroll residence, 491 Green Briar Rd (Well Ref. No. 12) WELL ABANDONED IN 1995 | | | | | | | |
| Benzene | 2.1 | 1.7 | | 1.9 | | 1.0 | 5 |
| Chloroethane | 173.4 | 74.5 | | ND | | 2800 | --- |
| Chloromethane | ND | 14.8 | | ND | | 2.6 | --- |
| Dichlorodifluoromethane | 30.6 | ND | | ND | | 1400 | --- |
| 1,1-Dichloroethane | 20.9 | 17.4 | | ND | | 70 | --- |
| 1,1-Dichloroethene | 4.1 | 1.5 | | ND | | 7 | 7 |
| cis-1,2-Dichloroethene# | 1.2 | 0.9 | | <1.0 | | 70 | 70 |
| 2,2-Dichloropropane# | 1.2 | 0.9 | | ND | | --- | --- |
| 4-Isopropyltoluene | ND | 0.2 | NS | ND | NS | --- | --- |
| Isopropylbenzene | 0.6 | ND | | ND | | 70 | --- |
| Methylene Chloride | ND | 43.0 (T) | | 138.2 | | 4.6 | 5 |
| Styrene | 2.8 | 0.5 | | ND | | 100 | 100 |
| Tert-Butyl Methyl Ether | ND | ND | | 2.4 | | 200 | --- |
| Tetrachloroethene | 5.4 | 4.7 | | 4.2 | | 0.7 | 5 |
| Toluene | ND | 0.6 (T) | | ND | | 1000 | 1000 |
| 1,1,1-Trichloroethane | 19.7 | 15.7 | | 29.4 | | 200 | 200 |
| Trichloroethene | 7 | 5.5 | | 7.0 | | 2.8 | 5 |
| Trichlorofluoromethane | 37.1 | 20.2 | | ND | | 2100 | --- |
| Vinyl Chloride | 1.7 (T) | ND | | ND | | 0.015 | 2 |
| p and m-Xylene | ND | ND | | <1.0 | | 530 | 10,000 |
| o-Xylene | ND | 3.4 | | 2.9 | | 530 | 10,000 |
| Nissan-Mazda Dealership, 2464 Hwy 421 S (Well Ref. No. 4) WELL ABANDONED IN 1995 | | | | | | | |
| Carbon Tetrachloride | 0.2 | | ND | | ND | 0.269 | 5 |
| Chloroethane | 19.1 | | ND | | ND | 2800 | --- |
| Dichlorodifluoromethane | 8.2 | | 8.7 | | ND | 1400 | --- |
| 1,1-Dichloroethane | 98.5 | | 63.1 | | 104.3 | 70 | --- |
| 1,2-Dichloroethane | ND | | 0.5 | | ND | 0.38 | --- |
| 1,1-Dichloroethene | 5.4 | | 3.7 | | 4.7 | 7 | 7 |
| cis-1,2-Dichloroethene# | 22.2 | | 13.0 | | 23.7 | 70 | 70 |
| 1,2-Dichloropropane | 0.5 | | 0.3 | | ND | 0.51 | 5 |
| 2,2-Dichloropropane# | 22.2 | NS | 13.0 | NS | ND | --- | --- |
| Tetrachloroethene | 21.8 | | 28.1 | | 30.9 | 0.7 | 5 |
| Toluene | ND | | 0.8(T) | | ND | 1000 | 1000 |
| 1,1,1-Trichloroethane | 14.7 | | 19.3 | | 22.9 | 200 | 200 |
| Trichloroethene | 11.2 | | 9.1 | | 12.6 | 2.8 | 5 |
| Trichlorofluoromethane | 0.4 | | ND | | ND | 2100 | --- |
| o-Xylene | 0.4 | | 0.5(T) | | ND | 530 | 10,000 |

NOTE: All Concentrations are in ppb (ug/L).

(Other footnotes located on page 4)

**PRIVATE WELL TESTING
WATAUGA COUNTY, NC
RESULTS OF BREMCO WELL ANALYSIS**

| CONSTITUENT | 3/5/93* | 4/6/94** | 8/2/94** | 12/7/94** | 4/26/95** | 10/24/95** | 4/9/96** | 10/9/96** | 6/4/97** | 2/10/98** | 8/17/98** | 2/18/99** | 5/22/00** | NCS | MCL |
|---|---------|----------|----------|-----------|-----------|------------|----------|-----------|----------|-----------|-----------|-----------|-----------|------|-----|
| Blue Ridge Electric Membership Company (BREMCO), 2491 Hwy 421 S (Well Ref. No. 5) Connected to public water in 2003. | | | | | | | | | | | | | | | |
| Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.2 (J) | trace | trace | trace | 1 | 5 |
| 1,1-Dichloroethane | 0.7 | <1.0 | 1.4 | 1.0 | 1.2 | 1.8 | 1.5 | 1.5 | 2.0 | 3.2 (J) | 1.6 | 1.5 | 5.0 | 700 | --- |
| 1,1,1-Trichloroethane | 0.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | trace | trace | trace | trace | 200 | 200 |
| Trichloroethene | 0.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 (J) | 0.5 | trace | 0.6 | 2.8 | 5 |
| 1,1-Dichloroethene | ND | 1.0 | 1.9 | <1.0 | 1.1 | 1.7 | 1.0 | <1.0 | 1.7 | 3.9 (J) | 2.6 | ND | 2.7 | 7 | 7 |
| cis-1,2-Dichloroethene | ND | <1.0 | ND | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 0.5 (J) | trace | trace | 0.5 | 70 | 70 |
| Tetrachloroethene | ND | <1.0 | <1.0 | trace | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | trace | trace | trace | trace | 0.7 | 5 |
| Cloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | 70 | 80 |
| Methylene Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.8 | 4.6 | 5 |
| Methyl-t-butyl-ether | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | 200 | --- |
| Tetrahydrofuran | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 (J) | ND | ND | --- | --- |
| Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | --- | --- |
| Dichlorodifluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1400 | --- |

| CONSTITUENT | 8/7/01*** | 2/11/02*** | 8/14/02**** | 7/15/03**** | 3/16/04**** | 9/29/04**** | 3/30/05^^ | 10/5/05^^ | 4/05/06^^ | 9/27/06^^ | 4/3/07^^ | 9/18/07^^ | 3/11/08^^ | 9/9/08^^ | 3/12/09^^ | NCS | MCL |
|---|-----------|------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-------|------|
| Blue Ridge Electric Membership Company (BREMCO), 2491 Hwy 421 S (Well Ref. No. 5) Connected to public water in 2003. | | | | | | | | | | | | | | | | | |
| Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1 | 0.6 | 0.5 | 0.5 | 0.6 | 1 | 5 |
| sec-Butylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.01(J) | ND | --- | --- |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3 | 0.8 | 1 | 1.3 | 1.4 | 1.4 | 75 |
| 1,1-Dichloroethane | 6 | 6 | 7.7 | 8.8 | 5.7 | 4.1 | ND | 4.7 | 0.5 | 1.6 | 11 | 29 | 38 | 30 | 33 | 700 | --- |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 200 | 200 |
| Trichloroethene | 0.8 | 0.6 | 0.72 | 0.69 | ND | ND | ND | ND | ND | ND | ND | 1 | 1 | 1 | 1 | 2.8 | 5 |
| 1,1-Dichloroethene | 2 | ND | 1.6 | 1.4 | ND | ND | ND | ND | ND | ND | 0.8 | 1.8 | 1.7 | 1.5 | 1.5 | 7 | 7 |
| cis-1,2-Dichloroethene | 0.9 | 1 | 1.4 | 1.6 | ND | ND | ND | 0.7 | ND | ND | 1.9 | 5.3 | 6 | 6 | 6.5 | 70 | 70 |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.2(J) | 0.2(J) | 0.2(J) | 70 | 70 |
| Tetrachloroethene | ND | ND | ND | 0.53 | ND | ND | ND | ND | ND | ND | ND | 0.4 (J) | 0.5 (J) | 0.4 (J) | 0.4 (J) | 0.7 | 5 |
| Cloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 70 | 80 |
| Methylene Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.4 | 1.6 | 1.7 | 1.4 | 1.7 | 4.6 | 5 |
| Methyl-t-butyl-ether | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 200 | --- |
| Tetrahydrofuran | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | --- | --- |
| Chloroethane | 0.5 | 1 | 1.3 | 1.3 | 1.1 | 0.52 | ND | 1.1 | ND | ND | 2.2 | 8.1 | 12 | 11 | 11 | --- | --- |
| Dichlorodifluoromethane | 1 | 1 | 1.6 | 0.94 | 0.59 | 0.58 | ND | ND | ND | ND | 0.6 | 1.2 | 1.2 | 1 | 1 | 1400 | --- |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1 (J) | 0.2 (J) | 0.2 (J) | 0.2 (J) | 50 | 100 |
| 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.2 (J) | 0.2 (J) | ND | ND | 0.38 | --- |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.2 (J) | 0.3 (J) | 0.2 (J) | 0.2 (J) | 0.51 | 5 |
| Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND | 1000 | 1000 |
| Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.4 (J) | 0.5 | 0.5J | 0.4J | 0.015 | 2 |

NOTE: All Concentrations are in ppb (ug/L)

**PRIVATE WELL TESTING
WATAUGA COUNTY, NC
RESULTS OF ANALYSIS**

| CONSTITUENT | 3/93* | 4/94** | 10/95** | 4/96** | 10/96** | 6/97** | 2/98** | 2/99** | 5/00** | 8/01*** | 2/02*** | 8/02*** | 1/03**** | 7/03**** | 4/07^^ | 9/07^^ | 3/11/08^^ | 9/9/08^^ | 3/12/09^^ | NCS | MCL |
|--|-------|--------|---------|--------|---------|--------|--------|--------|--------|---------|---------|---------|----------|----------|--------|--------|-----------|----------|-----------|----------|------|
| 2347 Hwy 421 S (Well Ref. No. 2) Connected to public water in 201 | | | | | | | | | | | | | | | | | | | | | |
| tert-Butylbenzene | 1.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | --- | --- |
| Isopropylbenzene | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | --- | --- |
| Trichloroethene | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.2J | ND | ND | 0.2J | ND | 2.8 | 5 |
| 1,3,5-Trimethylbenzene | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | --- | --- |
| 1,1-Dichloroethane | ND | trace | <1.0 | trace | <1.0 | trace | ND | <1.0 | 0.6 | ND | 0.7 | 0.99 | 0.53 | 0.77 | 3.3 | 3.7 | 4.5 | 4.8 | 4.2 | 700 | --- |
| 1,1-Dichloroethene | ND | trace | trace | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | ND | 0.3J | 0.3J | 0.2J | 0.3J | ND | 7 | 7 |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | 0.5 | 0.2J | 0.6 | 0.8 | 0.1J | 70 | 70 |
| Dichlorodifluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3J | 0.3J | 0.3J | 0.4J | 0.3J | 1400 | --- |
| Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3J | 0.5J | 0.5 | 0.7 | 0.5J | --- | --- |
| Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1J | 0,000015 | 2 |
| Methyl Ethyl Ketone | ND | trace | 35.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 4200 | --- |
| Tetrahydrofuran | ND | ND | 42.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | --- | --- |
| Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3J | ND | ND | 1.0 | 1000 | 1000 |
| Methylene Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.5J | ND | ND | ND | 5 | 5 |

| CONSTITUENT | 5/93** | 6/23/93** | 3/94** | 8/94** | 12/94** | 4/95** | 10/95** | 5/96** | 10/96** | 2/98** | 8/98** | 6/99** | 9/00** | 5/01** | 2/02*** | 8/02**** | 1/03**** | 7/03**** | 3/04**** | 9/04**** | NCS | MCL |
|--|--------|-----------|--------|--------|---------|--------|---------|--------|---------|--------|--------|--------|--------|--------|---------|----------|----------|----------|----------|----------|------|------|
| 648 Green Briar Rd (Well Ref. No. 24) Declined connection to public water in 2000; unoccupied in 2005, connected in 2008. | | | | | | | | | | | | | | | | | | | | | | |
| Methylene Chloride | 3.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5 | 5 |
| 1,1,1-Trichloroethane | <1.0 | <1.0 | <1.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 200 | 200 |
| Trichloroethene | trace | trace | <1.0 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.8 | 5 |
| Tetrachloroethene | ND | trace | <1.0 | ND | trace | trace | <1.0 | <1.0 | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.7 | 5 |
| Carbon Tetrachloride | ND | ND | <1.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3 | 5 |
| 1,1-Dichloroethane | ND | ND | <1.0 | ND | <1.0 | <1.0 | trace | <1.0 | ND | trace | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | 700 | --- |
| Chloroform | ND | ND | trace | ND | ND | trace | trace | ND | ND | ND | trace | ND | ND | ND | 37 | 38 | ND | ND | ND | ND | 70 | 80 |
| Bromodichloromethane | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 4.8 | 8.0 | ND | ND | ND | ND | 0.56 | 80 |
| Dibromochloromethane | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.81 | 1.6 | ND | ND | ND | ND | - | 80 |
| 1,2-Dibromoethane (EDB) | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | 0.05 |

| CONSTITUENT | 3/93* | 4/94** | 12/94** | 2/01** | 8/01*** | 2/02*** | 8/02**** | 1/03**** | 7/03**** | 3/04**** | 9/04**** | 3/05^^ | 10/05^^ | 4/06^^ | 9/06^^ | 4/07^^ | 9/07^^ | 3/11/08^^ | 9/9/08^^ | 3/12/09^^ | NCS | MCL |
|--|-------|--------|---------|--------|---------|---------|----------|----------|----------|----------|----------|--------|---------|--------|--------|--------|--------|-----------|----------|-----------|------|--------|
| 2711 Hwy 421 S (Well Ref. No. 15) Declined connection to public water in 2002, connected in 2006. | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | ND | <1.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.0 | 5 |
| Toluene | ND | 6.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1000 | 1000 |
| Tetrachloroethene | ND | trace | ND | <1.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1J | 0.7 | 5 |
| Ethylbenzene | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 550 | 700 |
| p and m - Xylene | ND | <1.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 530 | 10,000 |
| Styrene | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.14 | 100 |
| cis-1,2-Dichloroethene | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.3J | ND | ND | ND | ND | 70 | 70 |

| | 3/93* | 2/96** | 2/02*** | 8/02**** | 1/03**** | 3/04**** | 10/05^^ | 4/06^^ | 4/07^^ | 9/07^^ | 3/08^^ | 9/08^^ | 3/09^^ | NCS | MCL |
|---|-------|--------|---------|----------|----------|----------|---------|--------|--------|--------|--------|--------|--------|-----|-------|
| 2239 Hwy 421 S (Well Ref. No. 1) | | | | | | | | | | | | | | | |
| Total Xylenes | ND | ND | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 530 | 10000 |

| CONSTITUENT | 3/93* | 6/93** | 3/94** | 10/96** | NCS | MCL |
|---|-------|--------|--------|---------|------|-----|
| 513 Green Briar Rd (Well Ref. No. 11) Connected to public water in 2000. | | | | | | |
| Dichlorodifluoromethane | 2.5 | ND | ND | ND | 1400 | --- |
| Naphthalene | 0.7 | ND | ND | ND | 21 | --- |
| Chloromethane | <9 | ND | ND | ND | 2.6 | --- |
| Methylene Chloride | <0.6 | ND | ND | ND | 5 | 5 |
| Chloroform | ND | ND | <1.0 | NDT | 0.19 | 80 |

NOTE: All constituents are in µg/L.

PRIVATE WELL TESTING
WATAUGA COUNTY, NC
RESULTS OF ANALYSIS

| CONSTITUENT | 3/23/93** | 2/19/01** | 8/7/01** | 1/11/02** | 8/14/02*** | 1/22/03*** | 7/15/03*** | 3/16/04*** | 9/29/04*** | 3/30/05^^ | 10/05/05^^ | 4/05/05^^ | 9/27/06^^ | 4/3/07^^ | 9/18/07^^ | 3/11/08^^ | 9/9/08^^ | 3/12/09^^ | NCS | MCL |
|---|-----------|-----------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----|-----|
| 2737 Hwy 421 S (Well Ref. No.16) Connected to public water in 2004. | | | | | | | | | | | | | | | | | | | | |
| Methyl-t-butyl-ether | ND | <1.0 | ND | ND | 1.2 | 1.2 | ND | 1.5 | 1.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 200 | --- |
| cis-1,2-Dichloroethene | ND | <1.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.5 | ND | 70 | 70 |
| Tetrachloroethene | ND | <1.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1 | 0.7 | 5 |

| CONSTITUENT | 3/18/93* | 5/11/93** | 9/21/93** | 11/2/99** | 9/6/00** | 3/30/05^^ | 3/11/08^^ | NCS | MCL |
|---|----------|-----------|-----------|-----------|----------|-----------|-----------|-------|-----|
| 139,152,163,166 Margot Rd; 151,180 Greenbriar Ln; 306, 344 Greenbriar Rd. Shared Well #1 (8 Houses) (Well Ref. No.13) | | | | | | | | | |
| sec-Butylbenzene | 0.2 | ND | ND | ND | ND | ND | ND | --- | --- |
| Carbon Tetrachloride | 0.1 | ND | ND | ND | ND | ND | ND | 0.269 | 5 |
| Methylene Chloride | 1.5 | ND | ND | ND | ND | ND | ND | 4.6 | 5 |
| alpha-Chlordane | 0.4 | ND | ND | ND | ND | ND | ND | 0.1 | 2 |
| gamma-Chlordane | 0.3 | ND | ND | ND | ND | ND | ND | 0.1 | 2 |
| 1,4-Dichlorobenzene | ND | ND | ND | trace | ND | ND | ND | 1.4 | 75 |
| 2-Butanone | ND | ND | ND | ND | 2.31 | ND | ND | 4200 | --- |
| Chloroform | ND | ND | ND | trace | ND | ND | ND | 70 | 80 |

| CONSTITUENT | 3/5/93** | 4/26/95** | 4/9/96** | 2/10/98** | NCS | MCL |
|---|----------|-----------|----------|-----------|------|-----|
| Mack Brown Chevrolet dealership, 2704/2705 Hwy 421 S (Well Ref. No.7) Public water in 2000. | | | | | | |
| Chloroform | ND | ND | ND | 39.7 | 70 | 80 |
| Bromodichloromethane | ND | ND | ND | 5 | 0.56 | 80 |
| Methyl-t-butyl-ether | ND | 24.4 | 2.5 | ND | 200 | --- |

| CONSTITUENT | 3/18/93* | 3/30/94** | 1/12/95** | 0/24/95* | 4/9/96** | 10/9/96** | 6/12/97** | 2/10/98** | 6/9/99** | NCS | MCL |
|---|----------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|------|-----|
| 118, 132, 138, 191 Grapevine Circle, Shared Well #2 (4 Houses) (Well Ref. No.14) Connected to public water in 2000. | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | 1.4 | 75 |
| 1,1-Dichloroethane | ND | ND | ND | <1.0 | <1.0 | <1.0 | ND | ND | ND | 700 | --- |
| 1,1-Dichloroethene | ND | <1.0 | <1.0 | ND | ND | ND | ND | ND | ND | 7 | 7 |
| Tetrachloroethene | ND | ND | ND | trace | ND | trace | ND | ND | ND | 0.7 | 5 |
| 1,1,1-Trichloroethane | ND | <1.0 | ND | trace | ND | ND | ND | ND | ND | 200 | 200 |
| Chloroform | ND | trace | ND | 9.0 | ND | ND | ND | ND | ND | 70 | 80 |
| Bromodichloromethane | ND | ND | ND | 1.4 | ND | ND | ND | ND | ND | 0.56 | 80 |
| Dibromochloromethane | ND | ND | ND | <1.0 | ND | ND | ND | ND | ND | --- | 80 |
| 2-Chlorotoluene | ND | ND | ND | 1.2 | ND | ND | ND | ND | ND | --- | --- |
| 4-Chlorotoluene | ND | ND | ND | 1.0 | ND | ND | ND | ND | ND | --- | --- |
| Methyl Ethyl Ketone | ND | ND | ND | 24.6 | ND | ND | ND | ND | ND | 4200 | --- |
| Tetrahydrofuran | ND | ND | ND | 13.4 | ND | ND | ND | ND | ND | --- | --- |

| CONSTITUENT | 3/23/93** | 5/20/96** | 10/9/96** | 6/12/97** | 6/9/99** | NCS | MCL |
|---|-----------|-----------|-----------|-----------|----------|-----|-----|
| 601 Green Briar Rd (Well Ref. No.20) Connected to public water in 2000. | | | | | | | |
| 1,1,1-Trichloroethane | trace | trace | trace | trace | ND | 200 | 200 |
| Methyl-t-butyl-ether | ND | ND | ND | ND | <1.0 | 200 | --- |
| Chloroform | <1.0 | <1.0 | NDT | ND | <1.0 | 70 | 80 |

| CONSTITUENT | 10/20/93** | 2/21/96** | 8/19/98** | 2/18/99** | 9/6/00** | NCS | MCL |
|---|------------|-----------|-----------|-----------|----------|-----|-----|
| Meadowridge condominiums, Complex 9 (Well Ref. No.38) | | | | | | | |
| Chloroform | <1.0 | ND | ND | ND | ND | 70 | 80 |
| trans-1,2-Dichloroethene | <1.0 | ND | ND | ND | ND | 70 | 100 |
| 1,1,1-Trichloroethane | trace | ND | ND | ND | ND | 200 | 200 |
| Trichloroethene | trace | ND | ND | ND | ND | 2.8 | 5 |

| CONSTITUENT | 5/11/93** | 5/20/96** | 6/12/97** | 2/10/98** | 11/2/99** | 5/22/00** | 2/14/02*** | 3/11/08^^ | NCS | MCL |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------|-------|
| 604 Green Briar Rd (Well Ref. No.23) | | | | | | | | | | |
| Chloroform | trace | <1.0 | <1.0 | ND | trace | trace | ND | ND | 70 | 80 |
| Methyl-t-butyl-ether | ND | ND | ND | ND | ND | trace | ND | ND | 200 | --- |
| Toluene | ND | ND | ND | ND | trace | ND | ND | ND | 1000 | 1000 |
| Ethyl Benzene | ND | ND | ND | ND | trace | ND | ND | ND | 550 | 700 |
| Xylenes | ND | ND | ND | ND | trace | ND | ND | ND | 530 | 10000 |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | trace | ND | ND | ND | 1.4 | 75 |

| CONSTITUENT | 5/11/93** | 11/2/99** | 2/11/02*** | 3/11/08^^ | NCS | MCL |
|--------------------------------------|-----------|-----------|------------|-----------|-----|-----|
| 313 Green Briar Rd (Well Ref. No.25) | | | | | | |
| Tetrahydrofuran | ND | 1.2 J | ND | ND | --- | --- |

| CONSTITUENT | 8/9/93** | 10/20/93** | 9/21/94** | NCS | MCL |
|---|----------|------------|-----------|------|-----|
| 535 Green Briar Rd (Well Ref. No.33) Connected to public water in 2000. | | | | | |
| 1,2-Dichloroethane | <1.0 | <1.0 | ND | 0.38 | 5 |
| Chloroform | <1.0 | ND | <1.0 | 70 | 80 |

NOTE: All Concentrations are in ppb (ug/L) (Other footnotes located on page 4)
P:\06\500\06520\06520-39\Reports\2009 tables\XLS - 09 0327 - NCDENR - POTTAB234 - JES.xls\WTGA3A (pg4)

**PRIVATE WELL TESTING - WATAUGA COUNTY, NC
WELLS SHOWING NO DETECTED ORGANIC COMPOUNDS**

| SAMPLING LOCATION | SAMPLING DATES |
|---|---|
| Mack Brown rental residence (Well Ref. No.3) REMOVED | March 5, 1993*, July 3, 1994** and Feb. 19, 2001 |
| BREMC O residence (36) REMOVED | September 21, 1993** |
| Hollar and Green Produce, 230 Cabbage Rd (Well Ref. No.6) | 3/93*, 9/98&5/01**, 7/03***, 3/05.4/06, 4/07, 9/07, & 3/11/08^^ |
| 497/513 Old Hwy 421 S (Well Ref. No.8) | March 5, 1993* |
| Martin High Country Rentals #1 (9) | March 5, 1993* connected to public water. |
| Martin High Country Rentals #2 (10) | March 5, 1993* connected to public water. |
| 190 Green Briar Rd (Well Ref. No.30) | August 3, 1993** |
| 253 Green Briar Rd (Well Ref. No.39) | November 16, 1994** and August 7, 2001*** |
| 331 Green Briar Rd (Well Ref. No.19) | March 1993*, Oct. 1999**, Feb. 2002*** |
| 378 Green Briar Rd (Well Ref. No.18) | March 1993*, Oct. 1996**, Nov. 1999*, 3/05&3/08^^ |
| 425 Green Briar Rd (Well Ref. No.17) | 3/1993*, 9/1993**, 7/1994**, 10/1999**, 3/05&3/11/08^^ |
| 662 Green Briar Rd (Well Ref. No.27) | June 23, 1993**, March 30, 2005 and March 11, 2008^^ |
| 690 Green Briar Rd (Well Ref. No.29) | June 23, 1993**, March 30, 2005 and March 11, 2008^^ |
| 699 Green Briar Rd (Well Ref. No.26) | June 23, 1993** |
| 732 Green Briar Rd (Well Ref. No.28) | June 23, 1993** |
| 142 Greenbriar Ln (Well Ref. No.21) | 3/18/1993*, 5/22/2000**, 3/30/2005^^, 10/5/2005^^, and 9/9/08^^ |
| 110 Greenbriar Ln (Well Ref. No.22) | March 23, 1993* and October 12, 1999** |
| 330 Wild Rose Ln (Well Ref. No.45) | Oct. 1999**, Aug. 2001**, Feb. 2002**, and March 2005^^ |
| 378 Wild Rose Ln (Well Ref. No.46) | Feb. 2001**, Aug. 2001**, Feb. 2002**, and March 2005^^ |
| 356 Wild Rose Ln (Well Ref. No.54) | February 14, 2002** and March 30, 2005^^ |
| 171 Chipmunk Tr (Well Ref. No.31) | August 3, 1993** |
| Animal Control Office, 411 Landfill Rd (Well Ref. No.32) | August 3, 1993** |
| Brook Hollow Trailer Park (Well Ref. No.37) | October 11, 1993** |
| 860 Green Briar Rd (Well Ref. No.34) | October 20, 1993** |
| 182/216 Cane Rd, Shared well #3 (Well Ref. No.35) | October 20, 1993** and March 11, 2008^^ |
| 221/219 Cane Rd, Shared well #3 (Well Ref. No.57) | March 11, 2008^^ |
| 177 Cane Rd, Shared well #3 (Well Ref. No.56) | March 11, 2008^^ |
| 220 Margot Rd (Well Ref. No.55) | March 30, 2005^^ |
| 191 Sunny Knoll Ln (Well Ref. No.40) | January 12, 1995** |
| 200 Sunny Knoll Ln (Well Ref. No.61) | March 11, 2008^^ |
| 315 Sunny Knoll Ln (Well Ref. No.60) | March 11, 2008^^ |
| 233 Chipmunk Tr (Well Ref. No.41) | January 12, 1995** |
| Meadowridge Condominiums (42) | February 16&17, 1998** |
| Meadowridge Condominiums (43) | February 16&17, 1998** |
| Meadowridge Condominiums (44) | August 19, 1998** |
| 214/252 Will Cook Rd (Well Ref. No.47) | May 24, 2001** |
| 5259 Bamboo Rd (Well Ref. No.59) | March 2005^^ |
| 5233 Bamboo Rd (Well Ref. No.51) | August 7, 2001*** |
| 5229 Bamboo Rd (Well Ref. No.52) | August 7, 2001*** |
| 5195 Bamboo Rd (Well Ref. No.48) | August 7, 2001*** |
| 5177 Bamboo Rd (Well Ref. No.53) | August 7, 2001*** |
| 5147 and 5145 Bamboo Rd (Well Ref. No.50) | August 7, 2001*** |
| 5111 Bamboo Rd (Well Ref. No.49) | August 7, 2001*** |

TABLE NOTES:

The sampled well reference number as presented on the Vicinity Map (Figure 1) is denoted in parentheses following the sampling locations name.

* Laboratory analysis performed by Central Virginia Laboratories and Consultants (CVLC) utilizing EPA Methods 502.2 (Volatiles) and 525.1 (Semi-Volatiles).

** Laboratory Analysis performed by NCDENR Division of Laboratory Services utilizing EPA Method 502.2 (Volatiles).

*** Laboratory Analysis performed by Severn Trent Services utilizing EPA Method 524.2 (Volatiles).

**** Laboratory Analysis performed by Toxikon utilizing EPA Method 524.2 (Volatiles)

^^ Laboratory Analysis performed by Lancaster Laboratories utilizing EPA Method 524.2 (Volatiles)

NSC - North Carolina Water Quality Standard (DEHNR-15A NCAC 2L.0202)

MCL - EPA Primary Drinking Water Standard Maximum Contaminant Level

ND denotes no compounds detected for entire analytical scan.

NDT denotes compound detected in trip blank at same concentration as well sample.

NS denotes not sampled on that date.

NA denotes compound not analyzed on that date.

(J) denotes estimated result.

denotes compound co-elutes.

(T) denotes found in Trip Blank.

trace = < 0.5 ppb (ug/l)

Note that chloroform was detected in the residential wells 17, 18, 19, 22, 26, 30, 40, 45 and 46.

Chloroform has not been detected in any of the landfill assessment monitoring wells to date, and is likely a transformation product resulting from the chlorination of the well systems.

Martin High Country Rentals (9 and 10) was connected to public water in 2000.

APPENDIX E

**LABORATORY ANALYTICAL DATA SUMMARY SHEETS
AND
ASSOCIATED DATA VALIDATION SUMMARIES**

REPORT COPY ON CD INCLUDING:

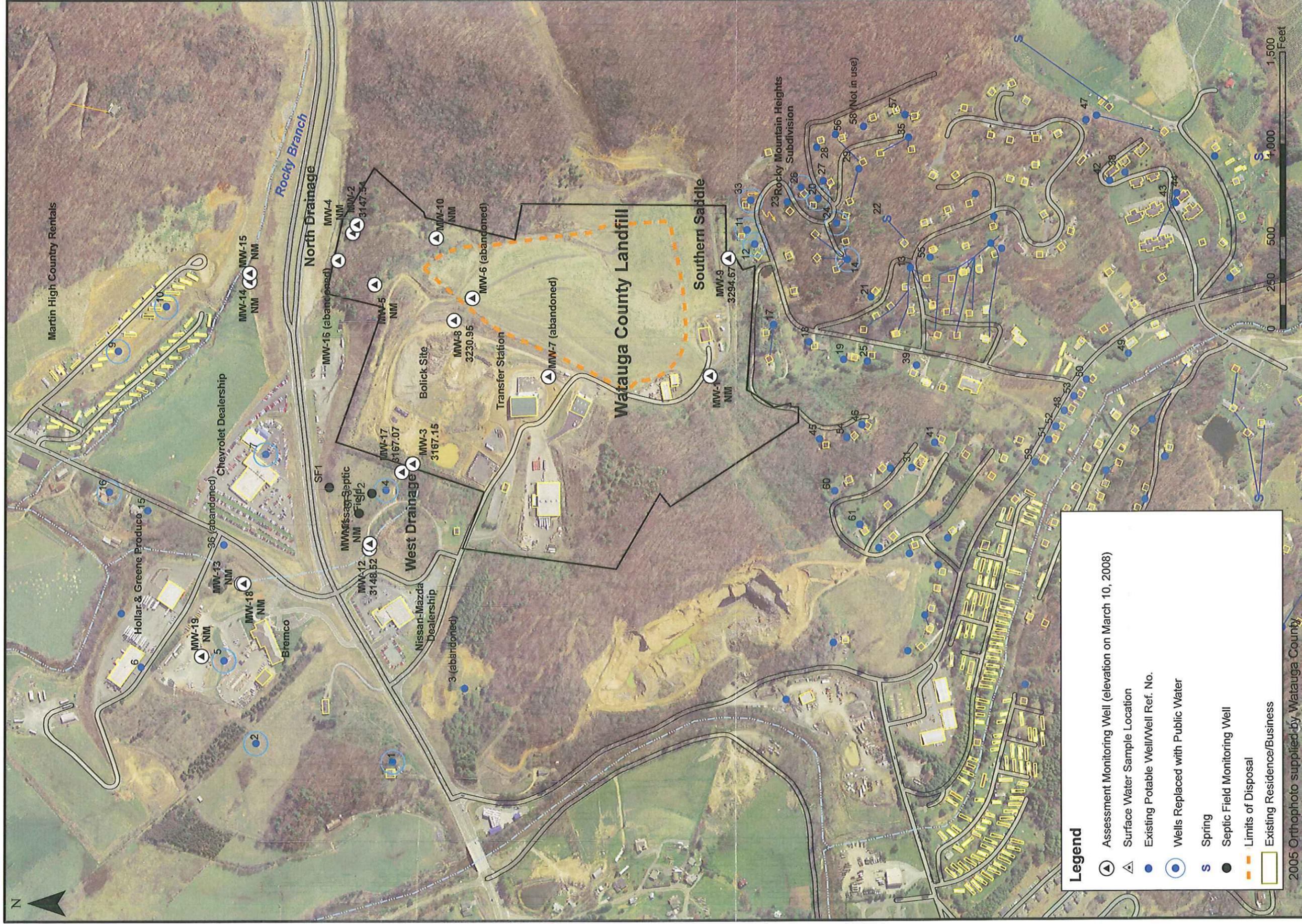
NCEDD (ELECTRONIC DATA DELIVERABLES)

EDDS – ALL DATA

EDDS – DETECTIONS ONLY

EDDS – DETECTIONS ABOVE 2L OR 2B STANDARDS

**LABORATORY ANALYTICAL SUMMARY DATA SHEETS,
DATA VALIDATION SUMMARY REPORTS, AND
LABORATORY QA/QC REPORTS.**



2005 Orthophoto supplied by Watauga County

Legend

- ▲ Assessment Monitoring Well (elevation on March 10, 2008)
- △ Surface Water Sample Location
- Existing Potable Well/Well Ref. No.
- Wells Replaced with Public Water
- S Spring
- Septic Field Monitoring Well
- Limits of Disposal
- ▭ Existing Residence/Business

Groundwater & Surface Water Monitoring Program Site Map
Watauga County Landfill

SCALE 1" = 500'
 PLAN NO. 6520-39



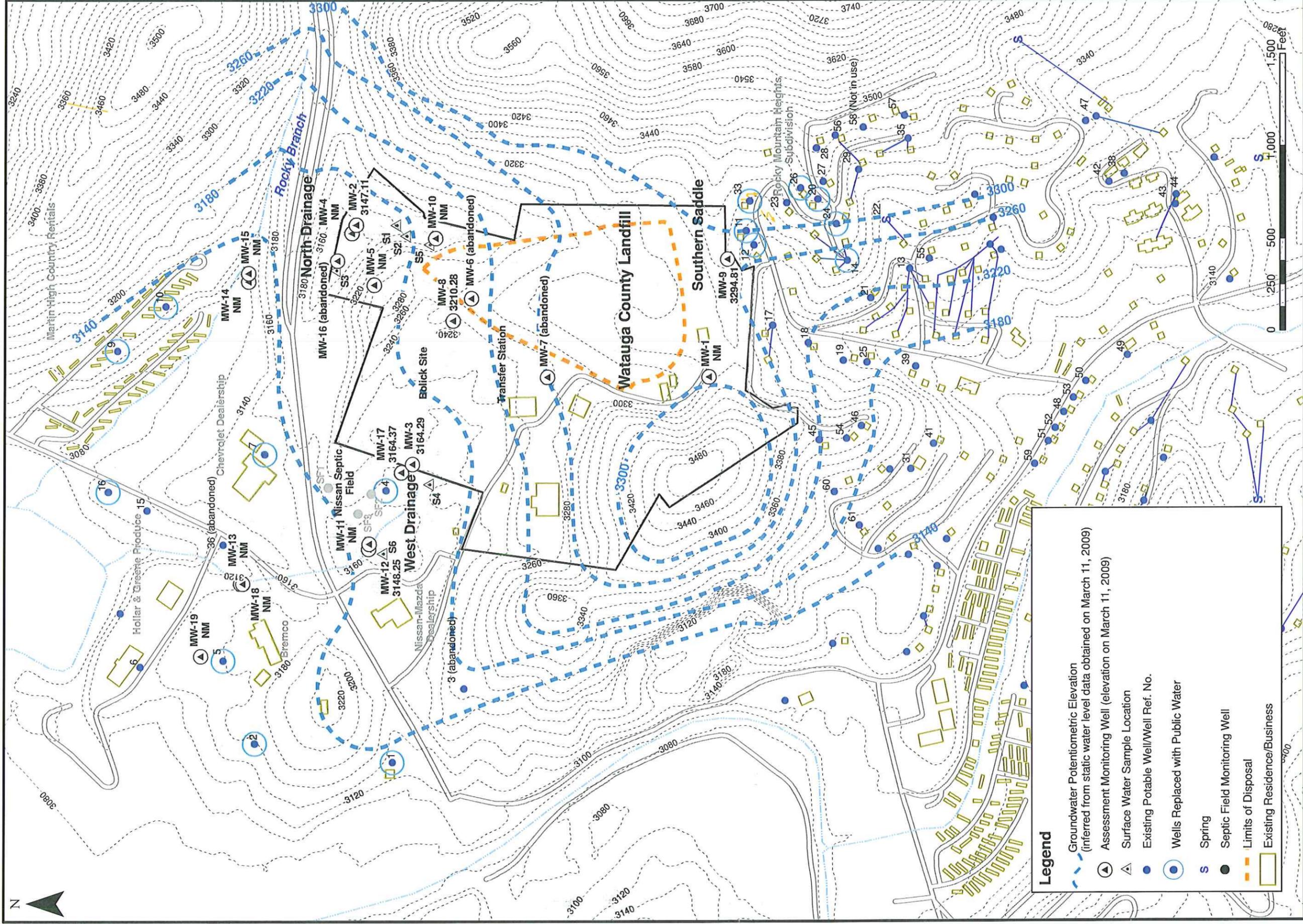
Draper Aden Associates
 Engineering • Surveying • Environmental Services
 2206 South Main Street
 Blacksburg, VA 24060
 540-552-0444 Fax: 540-552-0291
 Richmond, VA
 Charlottesville, VA
 Hampton Roads, VA

DESIGNED JES
 DRAWN KKD
 CHECKED MDL
 DATE 04-28-08

Watauga County, North Carolina

FIGURE
1

File: P:\06\500\06520\06520-39\GIS\MAP - 08 0312 - Fig 1 - Watauga Landfill - GW&SW Monitoring Program.mxd



**Potentiometric Surface Map
Watauga County Landfill**

Watauga County, North Carolina

SCALE 1" = 500'

PLAN NO. 6520-39



Draper Aden Associates
 Engineering • Surveying • Environmental Services
 2206 South Main Street
 Blacksburg, VA 24060
 540-552-0444 Fax: 540-552-0291

DESIGNED JES
 DRAWN KKD
 CHECKED MDL
 DATE 03-16-09

FIGURE
2

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory Results | | Validated Results | | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|--|-----------|--------------------|---|-------------------|-----|-----------------|----------|---|
| | | (ug/L) | | (ug/L) | | | | |
| <i>Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC</i> | | | | | | | | |
| Method: 8260B | | | | | | | | |
| Acetone | MW-12 | 2.6 | | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-12 | 5 | U | U | J | 5 | 1 | Analyte not detected. Sample pH <2. |
| Benzene | MW-12 | 0.36 | J | 0.36 | J | 0.5 | 1 | Result < LOQ. |
| Chlorobenzene | MW-12 | 0.35 | J | 0.35 | J | 0.5 | 1 | Result < LOQ. |
| Chloroethane | MW-12 | 9.9 | | 9.9 | | 0.5 | 1 | No action taken. |
| Chloroform | MW-12 | 0.65 | | 0.65 | | 0.5 | 1 | No action taken. |
| 1,2-Dichlorobenzene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-12 | 2.7 | | 2.7 | J | 0.5 | 1 | ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-12 | 25 | | 25 | | 0.5 | 1 | No action taken. |
| 1,2-Dichloroethane | MW-12 | 0.65 | | 0.65 | | 0.5 | 1 | No action taken. |
| 1,1-Dichloroethene | MW-12 | 0.32 | J | 0.32 | J | 0.5 | 1 | Result < LOQ. |
| cis-1,2-Dichloroethene | MW-12 | 59 | | 59 | | 0.5 | 4.2 | No action taken. Sample analyzed and reported in dilution |
| trans-1,2-Dichloroethene | MW-12 | 0.67 | | 0.67 | | 0.5 | 1 | No action taken. |
| 1,2-Dichloropropane | MW-12 | 0.89 | | 0.89 | | 0.5 | 1 | No action taken. |
| Ethylbenzene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D >+/-25% (40%). |
| 2-Hexanone | MW-12 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-34%). |
| 4-Methyl-2-pentanone | MW-12 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-30%). |
| Methylene chloride | MW-12 | 0.59 | | U | A | 0.5 | 1 | Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. |
| Naphthalene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D >+/-25% (30%/-31%). |
| Styrene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-12 | 4.6 | | 4.6 | J | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-12 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D >+/-25% (26%). |
| Trichloroethene | MW-12 | 5.1 | | 5.1 | J | 0.5 | 1 | ICAL greater than 15% RSD (16%). |

Definitions: **LOQ** Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. **R** Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory | Validated | | | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|--|-----------|-------------------|-------------------|-------------------|-------------------|--------------------|---|------------------|
| | | Results (ug/L) | Results (ug/L) | Results (ug/L) | Results (ug/L) | | | |
| <i>Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC</i> | | | | | | | | |
| Method: 8260B | | | | | | | | |
| Vinyl chloride | MW-12 | 2.9 | 2.9 | | 0.5 | 1 | No action taken. | |
| Xylenes (Total) | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). | |
| Method: 8260B | | | | | | | | |
| Acetone | MW-17 | 2.7 | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). | |
| Acrolein | MW-17 | 5 U | U | J | 5 | 1 | Analyte not detected. Sample pH <2. | |
| 1,2-Dichlorobenzene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). | |
| 1,3-Dichlorobenzene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). | |
| 1,4-Dichlorobenzene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). | |
| 1,1-Dichloroethane | MW-17 | 2.3 | 2.3 | | 0.5 | 1 | No action taken. | |
| cis-1,2-Dichloroethene | MW-17 | 6.1 | 6.1 | | 0.5 | 1 | No action taken. | |
| Ethylbenzene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). | |
| Hexachlorobutadiene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D >+/-25% (40%). | |
| 2-Hexanone | MW-17 | 2.5 U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-34%). | |
| 4-Methyl-2-pentanone | MW-17 | 2.5 U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-30%). | |
| Methylene chloride | MW-17 | 0.16 J | U | | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). | |
| Naphthalene | MW-17 | 0.2 J | U | J | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.15 -0.22 ug/l). ICAL greater than 15% RSD (25%). CV %D >+/-25% (30%/-31%). | |
| Styrene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). | |
| Tetrachloroethene | MW-17 | 4.2 | 4.2 | J | 0.5 | 1 | ICAL greater than 15% RSD (21%). | |
| Toluene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). | |
| 1,2,4-Trichlorobenzene | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D >+/-25% (26%). | |
| Trichloroethene | MW-17 | 1.1 | 1.1 | J | 0.5 | 1 | ICAL greater than 15% RSD (16%). | |
| Xylenes (Total) | MW-17 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). | |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.
 U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory Results | | Validated Results | | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|--|-----------|--------------------|---|-------------------|-----|-----------------|----------|---|
| | | (ug/L) | | (ug/L) | | | | |
| <i>Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC</i> | | | | | | | | |
| Method: 8260B | | | | | | | | |
| Acetone | MW-2 | 3.4 | | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-2 | 5 | U | U | J | 5 | 1 | Analyte not detected. Sample pH <2. |
| 1,2-Dichlorobenzene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-2 | 25 | | 25 | | 0.5 | 12.5 | No action taken. Sample analyzed and reported in dilution. |
| 1,1-Dichloroethene | MW-2 | 46 | | 46 | | 0.5 | 12.5 | No action taken. Sample analyzed and reported in dilution. |
| Ethylbenzene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D >+/-25% (40%). |
| 2-Hexanone | MW-2 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-34%). |
| Chloromethane | MW-2 | 0.28 | J | 0.28 | J | 0.5 | 1 | Result < LOQ. |
| 4-Methyl-2-pentanone | MW-2 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-30%). |
| Methylene chloride | MW-2 | 0.37 | J | U | | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D >+/-25% (30%/-31%). |
| Styrene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-2 | 3.4 | | 3.4 | J | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D >+/-25% (26%). |
| 1,1,1-Trichloroethane | MW-2 | 200 | | 200 | | 0.5 | 12.5 | No action taken. Sample analyzed and reported in dilution. |
| Trichloroethene | MW-2 | 0.27 | J | 0.27 | J | 0.5 | 1 | Result < LOQ. ICAL greater than 15% RSD (16%). |
| Vinyl chloride | MW-2 | 0.19 | J | 0.19 | J | 0.5 | 1 | Result < LOQ. |
| Xylenes (Total) | MW-2 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.
 U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory Results | | Validated Results | | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|--|-----------|--------------------|---|-------------------|-----|-----------------|----------|---|
| | | (ug/L) | | (ug/L) | | | | |
| <i>Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC</i> | | | | | | | | |
| Method: 8260B | | | | | | | | |
| Acetone | MW-3 | 2.5 | | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-3 | 5 | U | U | J | 5 | 1 | Analyte not detected. Sample pH <2. |
| Chloroethane | MW-3 | 2.4 | | 2.4 | | 0.5 | 1 | No action taken. |
| 1,2-Dichlorobenzene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-3 | 8.1 | | 8.1 | | 0.5 | 1 | No action taken. |
| cis-1,2-Dichloroethene | MW-3 | 24 | | 24 | | 0.5 | 1 | No action taken. |
| trans-1,2-Dichloroethene | MW-3 | 0.2 | J | 0.2 | J | 0.5 | 1 | Result < LOQ. |
| 1,2-Dichloropropane | MW-3 | 0.26 | J | 0.26 | J | 0.5 | 1 | Result < LOQ. |
| Ethylbenzene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D >+/-25% (40%). |
| 2-Hexanone | MW-3 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-34%). |
| Chloromethane | MW-3 | 0.18 | J | 0.18 | J | 0.5 | 1 | Result < LOQ. |
| 4-Methyl-2-pentanone | MW-3 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-30%). |
| Methylene chloride | MW-3 | 0.25 | J | U | | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D >+/-25% (30%/-31%). |
| Styrene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-3 | 0.91 | | 0.91 | J | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D >+/-25% (26%). |
| Trichloroethene | MW-3 | 2.5 | | 2.5 | J | 0.5 | 1 | ICAL greater than 15% RSD (16%). |
| Trichlorofluoromethane | MW-3 | 0.11 | J | 0.11 | J | 0.5 | 1 | Result < LOQ. |
| Vinyl chloride | MW-3 | 0.14 | J | 0.14 | J | 0.5 | 1 | Result < LOQ. |
| Xylenes (Total) | MW-3 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.
 U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

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Watauga County Landfill

Facility ID 95-02



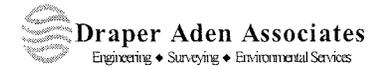
| Analyte | Sample ID | Laboratory Results | | Validated Results | | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|--|-----------|--------------------|---|-------------------|-----|-----------------|----------|---|
| | | (ug/L) | | (ug/L) | | | | |
| <i>Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC</i> | | | | | | | | |
| Method: 8260B | | | | | | | | |
| Acetone | MW-8 | 2.7 | | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-8 | 5 | U | U | J | 5 | 1 | Analyte not detected. Sample pH <2. |
| 1,2-Dichlorobenzene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-8 | 0.19 | J | 0.19 | J | 0.5 | 1 | Result < LOQ. |
| cis-1,2-Dichloroethene | MW-8 | 0.18 | J | 0.18 | J | 0.5 | 1 | Result < LOQ. |
| Ethylbenzene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D >+/-25% (40%). |
| 2-Hexanone | MW-8 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-34%). |
| 4-Methyl-2-pentanone | MW-8 | 2.5 | U | U | J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-30%). |
| Methylene chloride | MW-8 | 0.2 | J | U | | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D >+/-25% (30%/-31%). |
| Styrene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| Toluene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D >+/-25% (26%). |
| Trichloroethene | MW-8 | 0.35 | J | 0.35 | J | 0.5 | 1 | Result < LOQ. ICAL greater than 15% RSD (16%). |
| Xylenes (Total) | MW-8 | 0.5 | U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Definitions: **LOQ** Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. **R** Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.

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Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory Results (ug/L) | Validated Results (ug/L) | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|--|-----------|---------------------------|--------------------------|-----------------|----------|---|
| <i>Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC</i> | | | | | | |
| Method: 8260B | | | | | | |
| Acetone | MW-9 | 2.6 | U A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-9 | 5 U | U J | 5 | 1 | Analyte not detected. Sample pH <2. |
| Benzene | MW-9 | 2.9 | 2.9 | 0.5 | 1 | No action taken. |
| Chlorobenzene | MW-9 | 0.43 J | 0.43 J | 0.5 | 1 | Result < LOQ. |
| Chloroethane | MW-9 | 5.8 | 5.8 | 0.5 | 1 | No action taken. |
| 1,2-Dichlorobenzene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-9 | 1.4 | 1.4 J | 0.5 | 1 | ICAL greater than 15% RSD (25%). |
| Dichlorodifluoromethane | MW-9 | 0.43 J | 0.43 J | 0.5 | 1 | Result < LOQ. |
| 1,1-Dichloroethane | MW-9 | 15 | 15 | 0.5 | 1 | No action taken. |
| cis-1,2-Dichloroethene | MW-9 | 9.1 | 9.1 | 0.5 | 1 | No action taken. |
| trans-1,2-Dichloroethene | MW-9 | 0.32 J | 0.32 J | 0.5 | 1 | Result < LOQ. |
| 1,2-Dichloropropane | MW-9 | 0.22 J | 0.22 J | 0.5 | 1 | Result < LOQ. |
| Ethylbenzene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D >+/-25% (40%). |
| 2-Hexanone | MW-9 | 2.5 U | U J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-34%). |
| 4-Methyl-2-pentanone | MW-9 | 2.5 U | U J | 2.5 | 1 | Analyte not detected. CV %D >+/-25% (-30%). |
| Methylene chloride | MW-9 | 0.38 J | U | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D >+/-25% (30%/-31%). |
| Styrene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-9 | 0.87 | 0.87 J | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D >+/-25% (26%). |
| Trichloroethene | MW-9 | 1.4 | 1.4 J | 0.5 | 1 | ICAL greater than 15% RSD (16%). |
| Vinyl chloride | MW-9 | 1.7 | 1.7 | 0.5 | 1 | No action taken. |
| Xylenes (Total) | MW-9 | 0.5 U | U J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.
 U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



Draper Aden Associates
Engineering • Surveying • Environmental Services

| Analyte | Sample ID | Laboratory Results (ug/L) | Validated Results (ug/L) | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|--|------------|---------------------------|--------------------------|-----------------|----------|---|
| <i>Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC</i> | | | | | | |
| Method: OLM04.3 | | | | | | |
| Chloroethane | S-2 | 6 J | 6 J | 10 | 1 | Result < CRQL. |
| Method: OLM04.3 | | | | | | |
| 1,1-Dichloroethane | S-4 | 4 J | 4 J | 10 | 1 | Result < CRQL. |
| cis-1,2-Dichloroethene | S-4 | 9 J | 9 J | 10 | 1 | Result < CRQL. |
| Method: 8260B | | | | | | |
| Acetone | TRIP BLANK | 2.7 | U A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Methylene chloride | TRIP BLANK | 0.54 | U A | 0.5 | 1 | Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. |

Definitions: **LOQ** Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. **R** Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-05
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0573
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 2.9 | |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 9.9 | |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.32 | J |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.6 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.59 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 0.67 | |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 25 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 65 | E |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.65 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.36 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.65 | |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 5.1 | |
| 78-87-5 | 1,2-Dichloropropane | 0.89 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-05
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0573
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

| | | | |
|------------|-----------------------------|------|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 4.6 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.35 | J |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12DL

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-05RE1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-05D73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 4.2
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | Q |
|----------|--------------------------|----------|
| 75-71-8 | Dichlorodifluoromethane | 2.1 U |
| 74-87-3 | Chloromethane | 0.57 DJ |
| 75-01-4 | Vinyl Chloride | 2.5 D |
| 74-83-9 | Bromomethane | 2.1 U |
| 75-00-3 | Chloroethane | 10 D |
| 75-69-4 | Trichlorofluoromethane | 2.1 U |
| 107-02-8 | Acrolein | 21 U |
| 75-35-4 | 1,1-Dichloroethene | 0.42 DJ |
| 74-88-4 | Iodomethane | 2.1 U |
| 75-15-0 | Carbon disulfide | 2.1 U |
| 67-64-1 | Acetone | 22 DB |
| 107-05-1 | 3-Chloropropene | 2.1 U |
| 75-05-8 | Acetonitrile | 2.1 U |
| 75-09-2 | Methylene Chloride | 0.89 DJB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.71 DJ |
| 107-13-1 | Acrylonitrile | 21 U |
| 75-34-3 | 1,1-Dichloroethane | 23 D |
| 108-05-4 | Vinyl acetate | 4.2 U |
| 594-20-7 | 2,2-Dichloropropane | 2.1 U |
| 156-59-2 | cis-1,2-Dichloroethene | 59 D |
| 78-93-3 | 2-butanone | 10 U |
| 107-12-0 | Propionitrile | 100 U |
| 74-97-5 | Bromochloromethane | 2.1 U |
| 126-98-7 | Methacrylonitrile | 21 U |
| 67-66-3 | Chloroform | 0.65 DJ |
| 71-55-6 | 1,1,1-Trichloroethane | 2.1 U |
| 56-23-5 | Carbon Tetrachloride | 2.1 U |
| 563-58-6 | 1,1-dichloropropene | 2.1 U |
| 71-43-2 | Benzene | 2.1 U |
| 107-06-2 | 1,2-Dichloroethane | 2.1 U |
| 78-83-1 | Isobutyl alcohol | 100 U |
| 79-01-6 | Trichloroethene | 5.2 D |
| 78-87-5 | 1,2-Dichloropropane | 0.67 DJ |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12DL

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-05RE1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-05D73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 4.2

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

| | | | |
|-----------------|-----------------------------|------|----|
| 74-95-3----- | Dibromomethane | 2.1 | U |
| 80-62-6----- | Methylmethacrylate | 21 | U |
| 75-27-4----- | Bromodichloromethane | 2.1 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 2.1 | U |
| 108-10-1----- | 4-Methyl-2-pentanone | 10 | U |
| 108-88-3----- | Toluene | 2.1 | U |
| 10061-02-6----- | trans-1,3-Dichloropropene | 2.1 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 2.1 | U |
| 97-63-2----- | Ethylmethacrylate | 21 | U |
| 127-18-4----- | Tetrachloroethene | 3.7 | D |
| 142-28-9----- | 1,3-Dichloropropane | 2.1 | U |
| 591-78-6----- | 2-hexanone | 10 | U |
| 124-48-1----- | Dibromochloromethane | 2.1 | U |
| 108-90-7----- | Chlorobenzene | 0.42 | DJ |
| 630-20-6----- | 1,1,1,2-Tetrachloroethane | 2.1 | U |
| 100-41-4----- | Ethylbenzene | 2.1 | U |
| 108-38-3----- | m,p-Xylene | 4.2 | U |
| 95-47-6----- | o-Xylene | 2.1 | U |
| 100-42-5----- | Styrene | 2.1 | U |
| 75-25-2----- | Bromoform | 2.1 | U |
| 96-18-4----- | 1,2,3-Trichloropropane | 2.1 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 2.1 | U |
| 110-57-6----- | trans-1,4-dichloro-2-butene | 8.3 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 2.1 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 2.9 | D |
| 95-50-1----- | 1,2-Dichlorobenzene | 2.1 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 2.1 | U |
| 87-68-3----- | Hexachlorobutadiene | 2.1 | U |
| 91-20-3----- | Naphthalene | 2.1 | U |
| 1330-20-7----- | Xylene (total) | 2.1 | U |
| 126-99-8----- | Chloroprene | 2.1 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-06
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-06R73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

| | | | |
|----------|--------------------------|------|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.7 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.16 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 2.3 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 6.1 | |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 1.1 | |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-02
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0273
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.28 | J |
| 75-01-4 | Vinyl Chloride | 0.19 | J |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 48 | E |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 3.4 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.37 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 26 | E |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 190 | E |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.27 | J |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-02
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0273
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 3.4 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2DL

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-02RE1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-02D73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 12.5

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 6.3 | U |
| 74-87-3 | Chloromethane | 6.3 | U |
| 75-01-4 | Vinyl Chloride | 6.3 | U |
| 74-83-9 | Bromomethane | 6.3 | U |
| 75-00-3 | Chloroethane | 6.3 | U |
| 75-69-4 | Trichlorofluoromethane | 6.3 | U |
| 107-02-8 | Acrolein | 63 | U |
| 75-35-4 | 1,1-Dichloroethene | 46 | D |
| 74-88-4 | Iodomethane | 6.3 | U |
| 75-15-0 | Carbon disulfide | 6.3 | U |
| 67-64-1 | Acetone | 57 | DB |
| 107-05-1 | 3-Chloropropene | 6.3 | U |
| 75-05-8 | Acetonitrile | 6.3 | U |
| 75-09-2 | Methylene Chloride | 1.6 | DJB |
| 156-60-5 | trans-1,2-Dichloroethene | 6.3 | U |
| 107-13-1 | Acrylonitrile | 63 | U |
| 75-34-3 | 1,1-Dichloroethane | 25 | D |
| 108-05-4 | Vinyl acetate | 13 | U |
| 594-20-7 | 2,2-Dichloropropane | 6.3 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 6.3 | U |
| 78-93-3 | 2-butanone | 31 | U |
| 107-12-0 | Propionitrile | 310 | U |
| 74-97-5 | Bromochloromethane | 6.3 | U |
| 126-98-7 | Methacrylonitrile | 63 | U |
| 67-66-3 | Chloroform | 6.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 200 | D |
| 56-23-5 | Carbon Tetrachloride | 6.3 | U |
| 563-58-6 | 1,1-dichloropropene | 6.3 | U |
| 71-43-2 | Benzene | 6.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 6.3 | U |
| 78-83-1 | Isobutyl alcohol | 310 | U |
| 79-01-6 | Trichloroethene | 6.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 6.3 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2DL

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-02RE1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-02D73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 12.5
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|------------|-----------------------------|-----|----|
| 74-95-3 | Dibromomethane | 6.3 | U |
| 80-62-6 | Methylmethacrylate | 63 | U |
| 75-27-4 | Bromodichloromethane | 6.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 31 | U |
| 108-88-3 | Toluene | 6.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6.3 | U |
| 97-63-2 | Ethylmethacrylate | 63 | U |
| 127-18-4 | Tetrachloroethene | 3.2 | DJ |
| 142-28-9 | 1,3-Dichloropropane | 6.3 | U |
| 591-78-6 | 2-hexanone | 31 | U |
| 124-48-1 | Dibromochloromethane | 6.3 | U |
| 108-90-7 | Chlorobenzene | 6.3 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 6.3 | U |
| 100-41-4 | Ethylbenzene | 6.3 | U |
| 108-38-3 | m,p-Xylene | 13 | U |
| 95-47-6 | o-Xylene | 6.3 | U |
| 100-42-5 | Styrene | 6.3 | U |
| 75-25-2 | Bromoform | 6.3 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 6.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.3 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 25 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 6.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 6.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 6.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.3 | U |
| 87-68-3 | Hexachlorobutadiene | 6.3 | U |
| 91-20-3 | Naphthalene | 6.3 | U |
| 1330-20-7 | Xylene (total) | 6.3 | U |
| 126-99-8 | Chloroprene | 6.3 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-01
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0173
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.18 | J |
| 75-01-4 | Vinyl Chloride | 0.14 | J |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 2.4 | |
| 75-69-4 | Trichlorofluoromethane | 0.11 | J |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.5 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.25 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | J |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.1 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 24 | |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 2.5 | |
| 78-87-5 | 1,2-Dichloropropane | 0.26 | J |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-01
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0173
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.91 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MS

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031920-MS1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031920-MS173
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.6 | |
| 74-87-3 | Chloromethane | 5.9 | |
| 75-01-4 | Vinyl Chloride | 6.3 | |
| 74-83-9 | Bromomethane | 5.9 | |
| 75-00-3 | Chloroethane | 8.0 | |
| 75-69-4 | Trichlorofluoromethane | 6.4 | |
| 107-02-8 | Acrolein | 39 | |
| 75-35-4 | 1,1-Dichloroethene | 5.6 | |
| 74-88-4 | Iodomethane | 5.3 | |
| 75-15-0 | Carbon disulfide | 6.1 | |
| 67-64-1 | Acetone | 20 | B |
| 107-05-1 | 3-Chloropropene | 4.3 | |
| 75-05-8 | Acetonitrile | 4.3 | |
| 75-09-2 | Methylene Chloride | 6.0 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 6.4 | |
| 107-13-1 | Acrylonitrile | 50 | |
| 75-34-3 | 1,1-Dichloroethane | 13 | |
| 108-05-4 | Vinyl acetate | 9.8 | |
| 594-20-7 | 2,2-Dichloropropane | 5.6 | |
| 156-59-2 | cis-1,2-Dichloroethene | 29 | E |
| 78-93-3 | 2-butanone | 21 | |
| 107-12-0 | Propionitrile | 250 | |
| 74-97-5 | Bromochloromethane | 6.4 | |
| 126-98-7 | Methacrylonitrile | 45 | |
| 67-66-3 | Chloroform | 6.1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.9 | |
| 56-23-5 | Carbon Tetrachloride | 5.9 | |
| 563-58-6 | 1,1-dichloropropene | 5.5 | |
| 71-43-2 | Benzene | 5.8 | |
| 107-06-2 | 1,2-Dichloroethane | 5.8 | |
| 78-83-1 | Isobutyl alcohol | 200 | |
| 79-01-6 | Trichloroethene | 8.3 | |
| 78-87-5 | 1,2-Dichloropropane | 6.1 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-MS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-MS173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

| | | | |
|------------|-----------------------------|-----|---|
| 74-95-3 | Dibromomethane | 6.5 | |
| 80-62-6 | Methylmethacrylate | 53 | |
| 75-27-4 | Bromodichloromethane | 5.6 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 5.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.6 | |
| 97-63-2 | Ethylmethacrylate | 50 | |
| 127-18-4 | Tetrachloroethene | 6.4 | |
| 142-28-9 | 1,3-Dichloropropane | 5.2 | |
| 591-78-6 | 2-hexanone | 18 | |
| 124-48-1 | Dibromochloromethane | 5.5 | |
| 108-90-7 | Chlorobenzene | 5.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.7 | |
| 100-41-4 | Ethylbenzene | 5.2 | |
| 108-38-3 | m,p-Xylene | 11 | |
| 95-47-6 | o-Xylene | 5.3 | |
| 100-42-5 | Styrene | 5.1 | |
| 75-25-2 | Bromoform | 5.6 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.7 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 17 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.9 | |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.3 | |
| 87-68-3 | Hexachlorobutadiene | 5.3 | |
| 91-20-3 | Naphthalene | 3.5 | B |
| 1330-20-7 | Xylene (total) | 17 | |
| 126-99-8 | Chloroprene | 4.7 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MSD

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-MSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-MSD173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|-----|---|
| 75-71-8 | Dichlorodifluoromethane | 5.5 | |
| 74-87-3 | Chloromethane | 5.4 | |
| 75-01-4 | Vinyl Chloride | 6.1 | |
| 74-83-9 | Bromomethane | 6.1 | |
| 75-00-3 | Chloroethane | 7.8 | |
| 75-69-4 | Trichlorofluoromethane | 6.0 | |
| 107-02-8 | Acrolein | 39 | |
| 75-35-4 | 1,1-Dichloroethene | 5.5 | |
| 74-88-4 | Iodomethane | 5.3 | |
| 75-15-0 | Carbon disulfide | 5.7 | |
| 67-64-1 | Acetone | 19 | B |
| 107-05-1 | 3-Chloropropene | 4.2 | |
| 75-05-8 | Acetonitrile | 4.2 | |
| 75-09-2 | Methylene Chloride | 5.9 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 6.3 | |
| 107-13-1 | Acrylonitrile | 48 | |
| 75-34-3 | 1,1-Dichloroethane | 12 | |
| 108-05-4 | Vinyl acetate | 8.9 | |
| 594-20-7 | 2,2-Dichloropropane | 5.3 | |
| 156-59-2 | cis-1,2-Dichloroethene | 28 | E |
| 78-93-3 | 2-butanone | 20 | |
| 107-12-0 | Propionitrile | 250 | |
| 74-97-5 | Bromochloromethane | 6.1 | |
| 126-98-7 | Methacrylonitrile | 44 | |
| 67-66-3 | Chloroform | 5.7 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.5 | |
| 56-23-5 | Carbon Tetrachloride | 5.7 | |
| 563-58-6 | 1,1-dichloropropene | 5.1 | |
| 71-43-2 | Benzene | 5.7 | |
| 107-06-2 | 1,2-Dichloroethane | 5.5 | |
| 78-83-1 | Isobutyl alcohol | 190 | |
| 79-01-6 | Trichloroethene | 8.3 | |
| 78-87-5 | 1,2-Dichloropropane | 5.9 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MSD

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-MSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-MSD173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.7 | |
| 80-62-6 | Methylmethacrylate | 51 | |
| 75-27-4 | Bromodichloromethane | 5.4 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 5.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.5 | |
| 97-63-2 | Ethylmethacrylate | 50 | |
| 127-18-4 | Tetrachloroethene | 6.5 | |
| 142-28-9 | 1,3-Dichloropropane | 5.3 | |
| 591-78-6 | 2-hexanone | 19 | |
| 124-48-1 | Dibromochloromethane | 5.4 | |
| 108-90-7 | Chlorobenzene | 5.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.8 | |
| 100-41-4 | Ethylbenzene | 5.2 | |
| 108-38-3 | m,p-Xylene | 11 | |
| 95-47-6 | o-Xylene | 5.2 | |
| 100-42-5 | Styrene | 5.2 | |
| 75-25-2 | Bromoform | 5.4 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.4 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.8 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 17 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5.1 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.8 | |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.5 | |
| 87-68-3 | Hexachlorobutadiene | 5.4 | |
| 91-20-3 | Naphthalene | 3.8 | B |
| 1330-20-7 | Xylene (total) | 16 | |
| 126-99-8 | Chloroprene | 4.5 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-03

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0373

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

| | | | |
|---------------|--------------------------|------|----|
| 75-71-8----- | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3----- | Chloromethane | 0.50 | U |
| 75-01-4----- | Vinyl Chloride | 0.50 | U |
| 74-83-9----- | Bromomethane | 0.50 | U |
| 75-00-3----- | Chloroethane | 0.50 | U |
| 75-69-4----- | Trichlorofluoromethane | 0.50 | U |
| 107-02-8----- | Acrolein | 5.0 | U |
| 75-35-4----- | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4----- | Iodomethane | 0.50 | U |
| 75-15-0----- | Carbon disulfide | 0.50 | U |
| 67-64-1----- | Acetone | 2.7 | B |
| 107-05-1----- | 3-Chloropropene | 0.50 | U |
| 75-05-8----- | Acetonitrile | 0.50 | U |
| 75-09-2----- | Methylene Chloride | 0.20 | JB |
| 156-60-5----- | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1----- | Acrylonitrile | 5.0 | U |
| 75-34-3----- | 1,1-Dichloroethane | 0.19 | J |
| 108-05-4----- | Vinyl acetate | 1.0 | U |
| 594-20-7----- | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2----- | cis-1,2-Dichloroethene | 0.18 | J |
| 78-93-3----- | 2-butanone | 2.5 | U |
| 107-12-0----- | Propionitrile | 25 | U |
| 74-97-5----- | Bromochloromethane | 0.50 | U |
| 126-98-7----- | Methacrylonitrile | 5.0 | U |
| 67-66-3----- | Chloroform | 0.50 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5----- | Carbon Tetrachloride | 0.50 | U |
| 563-58-6----- | 1,1-dichloropropene | 0.50 | U |
| 71-43-2----- | Benzene | 0.50 | U |
| 107-06-2----- | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1----- | Isobutyl alcohol | 25 | U |
| 79-01-6----- | Trichloroethene | 0.35 | J |
| 78-87-5----- | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-03

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0373

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

| | | | |
|-----------------|-----------------------------|------|---|
| 74-95-3----- | Dibromomethane | 0.50 | U |
| 80-62-6----- | Methylmethacrylate | 5.0 | U |
| 75-27-4----- | Bromodichloromethane | 0.50 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1----- | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3----- | Toluene | 0.50 | U |
| 10061-02-6----- | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2----- | Ethylmethacrylate | 5.0 | U |
| 127-18-4----- | Tetrachloroethene | 0.50 | U |
| 142-28-9----- | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6----- | 2-hexanone | 2.5 | U |
| 124-48-1----- | Dibromochloromethane | 0.50 | U |
| 108-90-7----- | Chlorobenzene | 0.50 | U |
| 630-20-6----- | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4----- | Ethylbenzene | 0.50 | U |
| 108-38-3----- | m,p-Xylene | 1.0 | U |
| 95-47-6----- | o-Xylene | 0.50 | U |
| 100-42-5----- | Styrene | 0.50 | U |
| 75-25-2----- | Bromoform | 0.50 | U |
| 96-18-4----- | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6----- | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3----- | Hexachlorobutadiene | 0.50 | U |
| 91-20-3----- | Naphthalene | 0.50 | U |
| 1330-20-7----- | Xylene (total) | 0.50 | U |
| 126-99-8----- | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-04

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0473

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|------|----|
| 75-71-8 | Dichlorodifluoromethane | 0.43 | J |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 1.7 | |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 5.8 | |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.6 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.38 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.32 | J |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 15 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 9.1 | |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 2.9 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 1.4 | |
| 78-87-5 | 1,2-Dichloropropane | 0.22 | J |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-04
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0473
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|-----------------|-----------------------------|------|---|
| 74-95-3----- | Dibromomethane | 0.50 | U |
| 80-62-6----- | Methylmethacrylate | 5.0 | U |
| 75-27-4----- | Bromodichloromethane | 0.50 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1----- | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3----- | Toluene | 0.50 | U |
| 10061-02-6----- | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2----- | Ethylmethacrylate | 5.0 | U |
| 127-18-4----- | Tetrachloroethene | 0.87 | U |
| 142-28-9----- | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6----- | 2-hexanone | 2.5 | U |
| 124-48-1----- | Dibromochloromethane | 0.50 | U |
| 108-90-7----- | Chlorobenzene | 0.43 | J |
| 630-20-6----- | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4----- | Ethylbenzene | 0.50 | U |
| 108-38-3----- | m,p-Xylene | 1.0 | U |
| 95-47-6----- | o-Xylene | 0.50 | U |
| 100-42-5----- | Styrene | 0.50 | U |
| 75-25-2----- | Bromoform | 0.50 | U |
| 96-18-4----- | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6----- | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 1.4 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3----- | Hexachlorobutadiene | 0.50 | U |
| 91-20-3----- | Naphthalene | 0.50 | U |
| 1330-20-7----- | Xylene (total) | 0.50 | U |
| 126-99-8----- | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-07
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-07R73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.7 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.54 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-07
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-07R73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|------------|-----------------------------|------|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|-----|---|
| 75-71-8 | Dichlorodifluoromethane | 5.1 | |
| 74-87-3 | Chloromethane | 4.8 | |
| 75-01-4 | Vinyl Chloride | 5.2 | |
| 74-83-9 | Bromomethane | 5.1 | |
| 75-00-3 | Chloroethane | 5.9 | |
| 75-69-4 | Trichlorofluoromethane | 6.0 | |
| 107-02-8 | Acrolein | 38 | |
| 75-35-4 | 1,1-Dichloroethene | 5.3 | |
| 74-88-4 | Iodomethane | 5.1 | |
| 75-15-0 | Carbon disulfide | 5.4 | |
| 67-64-1 | Acetone | 22 | B |
| 107-05-1 | 3-Chloropropene | 4.1 | |
| 75-05-8 | Acetonitrile | 4.2 | |
| 75-09-2 | Methylene Chloride | 5.3 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | |
| 107-13-1 | Acrylonitrile | 45 | |
| 75-34-3 | 1,1-Dichloroethane | 5.2 | |
| 108-05-4 | Vinyl acetate | 8.8 | |
| 594-20-7 | 2,2-Dichloropropane | 4.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.4 | |
| 78-93-3 | 2-butanone | 19 | |
| 107-12-0 | Propionitrile | 240 | |
| 74-97-5 | Bromochloromethane | 5.8 | |
| 126-98-7 | Methacrylonitrile | 42 | |
| 67-66-3 | Chloroform | 5.5 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.2 | |
| 56-23-5 | Carbon Tetrachloride | 5.4 | |
| 563-58-6 | 1,1-dichloropropene | 4.8 | |
| 71-43-2 | Benzene | 5.3 | |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | |
| 78-83-1 | Isobutyl alcohol | 180 | |
| 79-01-6 | Trichloroethene | 5.3 | |
| 78-87-5 | 1,2-Dichloropropane | 5.2 | |

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-1

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-01

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-01R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | | |
|----------|--------------------------|----|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
|-----|
| S-1 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-01

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-01R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|-----|
| S-2 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-02

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0291

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | UG/L | Q |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 6 | J |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
|-----|
| S-2 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-02

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0291

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| ===== | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-03

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0391

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> | Q |
|----------|--------------------------|---|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

FORM I VOA-1

OLM04.2

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-3 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-03

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0391

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-4

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-04

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-04R359

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | UG/L | Q |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 4 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 9 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-4 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-04

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-04R359

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-05

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-05R259

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | UG/L | Q |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-5 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-05

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-05R259

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-06R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | UG/L | Q |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-6 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-06R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-07

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-07R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q | |
|---------|----------|--|--|
|---------|----------|--|--|

| | | | |
|----------|--------------------------|----|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

FORM I VOA-1

OLM04.2

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-07

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-07R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
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ANALYTICAL RESULTS

Prepared for:

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

540-552-0444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 1136025. Samples arrived at the laboratory on Friday, March 13, 2009.

| <u>Client Description</u> | <u>Lancaster Labs Number</u> |
|-------------------------------|------------------------------|
| RES-1 Grab Water Sample | 5621915 |
| H&G Produce Grab Water Sample | 5621916 |
| RES-15 Grab Water Sample | 5621917 |
| RES-16 Grab Water Sample | 5621918 |
| BREMCO Grab Water Sample | 5621919 |
| RES-2 Grab Water Sample | 5621920 |
| Trip Blank Water Sample | 5621921 |

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC Draper Aden Associates, Inc.
COPY TO
1 COPY TO Data Package Group

Attn: Janet Frazier

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2661 • www.lancasterlabs.com

Page 1 of 3

Lancaster Laboratories Sample No. 5621915 PW Group No. 1136025

RES-1 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:15 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:24
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

1WATA SDG#: WAT09-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. 5621915 PW Group No. 1136025

RES-1 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:15 by CB Account Number: 11200

Submitted: 03/13/2009 09:00 Draper Aden Associates, Inc.
Reported: 03/25/2009 at 13:24 2206 South Main Street
Discard: 04/25/2009 Blacksburg VA 24060

1WATA SDG#: WAT09-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|--|--------------------------------------|-------|--------------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621915 PW Group No. 1136025

RES-1 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:15 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:24
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

1WATA SDG#: WAT09-01
CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|---------------------------|-------------------|--------------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/19/2009 23:04 | Lauren C Marzario | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621916 PW Group No. 1136025

H&G Produce Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

HWATA SDG#: WAT09-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621916 PW Group No. 1136025

H&G Produce Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

HWATA SDG#: WAT09-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|--------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621916 PW Group No. 1136025

H&G Produce Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

HWATA SDG#: WAT09-02

CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|------------------------|-------------------|-----------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/19/2009 23:30 | Lauren C Marzario | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621917 PW Group No. 1136025

RES-15 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:50 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

15WAT SDG#: WAT09-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621917 PW Group No. 1136025

RES-15 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:50 by CB Account Number: 11200

Submitted: 03/13/2009 09:00 Draper Aden Associates, Inc.
Reported: 03/25/2009 at 13:25 2206 South Main Street
Discard: 04/25/2009 Blacksburg VA 24060

15WAT SDG#: WAT09-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|--------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | 0.1 J | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621917 PW Group No. 1136025

RES-15 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:50 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

15WAT SDG#: WAT09-03

CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|------------------------|-------------------|-----------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/19/2009 23:57 | Lauren C Marzario | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 3

Lancaster Laboratories Sample No. 5621918 PW Group No. 1136025

RES-16 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

16WAT SDG#: WAT09-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | 0.5 | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621918 PW Group No. 1136025

RES-16 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

16WAT SDG#: WAT09-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|--------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | 0.1 J | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621918 PW Group No. 1136025

RES-16 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

16WAT SDG#: WAT09-04

CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|------------------------|-------------------|-----------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 00:24 | Lauren C Marzario | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621919 PW Group No. 1136025

BREMCO Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 13:55 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

BREWA SDG#: WAT09-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | 1.0 | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | 6.5 | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | 1.4 | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621919 PW Group No. 1136025

BREMCO Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 13:55 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

BREWA SDG#: WAT09-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|--------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | 0.4 J | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | 11 | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | 1.5 | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | 1.7 | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | 0.2 J | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | 33 | 0.5 | 2.5 | ug/l | 5 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | 0.6 | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | 1 | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | 0.2 J | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | 0.4 J | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | 0.2 J | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621919 PW Group No. 1136025

BREMCO Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 13:55 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

BREWA SDG#: WAT09-05
CAT

| No. | Analysis Name | Method | Analysis | | Analyst | Dilution Factor |
|-------|------------------|--------------------|----------|------------------|-------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 00:51 | Lauren C Marzario | 1 |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 08:54 | Anita M Dale | 5 |

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5621920 PW Group No. 1136025

RES-2 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:05 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

RES02 SDG#: WAT09-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | 0.3 | J 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | 0.1 | J 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. 5621920 PW Group No. 1136025

RES-2 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:05 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

RES02 SDG#: WAT09-06

| CAT No. | Analysis Name | CAS Number | As Received | | As Received | As Received | Units | Dilution Factor |
|---------|---------------------------|------------|-------------|--------|------------------|-----------------------|-------|-----------------|
| | | | Result | Method | Detection Limit* | Limit of Quantitation | | |
| 03401 | Vinyl Chloride | 75-01-4 | 0.1 | J | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | 0.5 | J | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | 4.2 | | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | 1.0 | | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Lancaster Laboratories Sample No. 5621920 PW Group No. 1136025

RES-2 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:05 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

RES02 SDG#: WAT09-06
CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|------------------------|-------------------|-----------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 01:17 | Lauren C Marzario | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 3

Lancaster Laboratories Sample No. 5621919 PW Group No. 1136025

BREMCO Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 13:55 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

BREWA SDG#: WAT09-05
CAT

| No. | Analysis Name | Method | Analysis | | Analyst | Dilution Factor |
|-------|------------------|--------------------|----------|------------------|-------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 00:51 | Lauren C Marzario | 1 |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 08:54 | Anita M Dale | 5 |

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike. PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 3

Lancaster Laboratories Sample No. 5621921 PW Group No. 1136025

Trip Blank Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 02/26/2009

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

TWATA SDG#: WAT09-07TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. 5621921 PW Group No. 1136025

Trip Blank Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 02/26/2009

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

TWATA SDG#: WAT09-07TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | 0.3 J | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike. PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 3

Lancaster Laboratories Sample No. 5621921 PW Group No. 1136025

Trip Blank Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 02/26/2009

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

TWATA SDG#: WAT09-07TB*
CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|------------------------|-------------------|-----------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 01:44 | Lauren C Marzario | 1 |

*=This limit was used in the evaluation of the final result

Quality Control Summary

 Client Name: Draper Aden Associates, Inc.
 Reported: 03/25/09 at 01:25 PM

Group Number: 1136025

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|-----------------------------------|-------------|-----------|--------------|----------|-----------|-----------------|-----|---------|
| Batch number: S090781BA | Sample number(s): 5621915-5621921 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | N.D. | 0.1 | 0.5 | ug/l | 111 | | 70-130 | | |
| Dichlorodifluoromethane | N.D. | 0.2 | 0.5 | ug/l | 85 | | 70-130 | | |
| 2,2-Dichloropropane | N.D. | 0.2 | 0.5 | ug/l | 107 | | 70-130 | | |
| cis-1,2-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 70-130 | | |
| Bromochloromethane | N.D. | 0.1 | 0.5 | ug/l | 108 | | 70-130 | | |
| 1,1-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 106 | | 70-130 | | |
| Dibromomethane | N.D. | 0.1 | 0.5 | ug/l | 113 | | 70-130 | | |
| 1,3-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 110 | | 70-130 | | |
| 1,2-Dibromoethane | N.D. | 0.1 | 0.5 | ug/l | 106 | | 70-130 | | |
| m+p-Xylene | N.D. | 0.2 | 0.5 | ug/l | 107 | | 70-130 | | |
| o-Xylene | N.D. | 0.1 | 0.5 | ug/l | 101 | | 70-130 | | |
| Isopropylbenzene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 70-130 | | |
| Bromobenzene | N.D. | 0.1 | 0.5 | ug/l | 105 | | 70-130 | | |
| 1,2,3-Trichloropropane | N.D. | 0.2 | 0.5 | ug/l | 109 | | 70-130 | | |
| n-Propylbenzene | N.D. | 0.1 | 0.5 | ug/l | 109 | | 70-130 | | |
| 2-Chlorotoluene | N.D. | 0.1 | 0.5 | ug/l | 111 | | 70-130 | | |
| 1,3,5-Trimethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 105 | | 70-130 | | |
| 4-Chlorotoluene | N.D. | 0.2 | 0.5 | ug/l | 107 | | 70-130 | | |
| tert-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 70-130 | | |
| 1,2,4-Trimethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 107 | | 70-130 | | |
| sec-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 105 | | 70-130 | | |
| p-Isopropyltoluene | N.D. | 0.1 | 0.5 | ug/l | 114 | | 70-130 | | |
| 1,3-Dichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 105 | | 70-130 | | |
| 1,4-Dichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 105 | | 70-130 | | |
| n-Butylbenzene | N.D. | 0.2 | 0.5 | ug/l | 112 | | 70-130 | | |
| 1,2-Dichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 106 | | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | N.D. | 0.4 | 0.5 | ug/l | 108 | | 70-130 | | |
| 1,2,4-Trichlorobenzene | N.D. | 0.2 | 0.5 | ug/l | 98 | | 70-130 | | |
| Hexachlorobutadiene | N.D. | 0.2 | 0.5 | ug/l | 91 | | 70-130 | | |
| Naphthalene | N.D. | 0.2 | 0.5 | ug/l | 96 | | 70-130 | | |
| 1,2,3-Trichlorobenzene | N.D. | 0.2 | 0.5 | ug/l | 97 | | 70-130 | | |
| trans-1,3-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 110 | | 70-130 | | |
| cis-1,3-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 109 | | 70-130 | | |
| Chloromethane | N.D. | 0.2 | 0.5 | ug/l | 104 | | 70-130 | | |
| Bromomethane | N.D. | 0.1 | 0.5 | ug/l | 108 | | 70-130 | | |
| Vinyl Chloride | N.D. | 0.1 | 0.5 | ug/l | 88 | | 70-130 | | |
| Chloroethane | N.D. | 0.2 | 0.5 | ug/l | 101 | | 70-130 | | |
| Trichlorofluoromethane | N.D. | 0.2 | 0.5 | ug/l | 91 | | 70-130 | | |
| 1,1-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 99 | | 70-130 | | |
| Methylene Chloride | N.D. | 0.3 | 0.5 | ug/l | 117 | | 70-130 | | |
| trans-1,2-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 107 | | 70-130 | | |
| 1,1-Dichloroethane | N.D. | 0.1 | 0.5 | ug/l | 102 | | 70-130 | | |
| Chloroform | N.D. | 0.1 | 0.5 | ug/l | 113 | | 70-130 | | |
| 1,1,1-Trichloroethane | N.D. | 0.1 | 0.5 | ug/l | 108 | | 70-130 | | |
| Carbon Tetrachloride | N.D. | 0.1 | 0.5 | ug/l | 115 | | 70-130 | | |
| Benzene | N.D. | 0.1 | 0.5 | ug/l | 110 | | 70-130 | | |

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Draper Aden Associates, Inc.
 Reported: 03/25/09 at 01:25 PM

Group Number: 1136025

Laboratory Compliance Quality Control

| <u>Analysis Name</u> | <u>Blank Result</u> | <u>Blank MDL**</u> | <u>Blank LOQ</u> | <u>Report Units</u> | <u>LCS %REC</u> | <u>LCSD %REC</u> | <u>LCS/LCSD Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|---------------------------|---------------------|--------------------|------------------|---------------------|-----------------|------------------|------------------------|------------|----------------|
| 1,2-Dichloroethane | N.D. | 0.1 | 0.5 | ug/l | 112 | | 70-130 | | |
| Trichloroethene | N.D. | 0.1 | 0.5 | ug/l | 104 | | 70-130 | | |
| 1,2-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 103 | | 70-130 | | |
| Bromodichloromethane | N.D. | 0.1 | 0.5 | ug/l | 118 | | 70-130 | | |
| Toluene | N.D. | 0.1 | 0.5 | ug/l | 108 | | 70-130 | | |
| 1,1,2-Trichloroethane | N.D. | 0.1 | 0.5 | ug/l | 122 | | 70-130 | | |
| Tetrachloroethene | N.D. | 0.1 | 0.5 | ug/l | 110 | | 70-130 | | |
| Dibromochloromethane | N.D. | 0.1 | 0.5 | ug/l | 115 | | 70-130 | | |
| Chlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 107 | | 70-130 | | |
| Ethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 99 | | 70-130 | | |
| Styrene | N.D. | 0.1 | 0.5 | ug/l | 112 | | 70-130 | | |
| Bromoform | N.D. | 0.2 | 0.5 | ug/l | 117 | | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | N.D. | 0.1 | 0.5 | ug/l | 121 | | 70-130 | | |
| Batch number: S090791AA | | | | | | | | | |
| 1,1-Dichloroethane | N.D. | 0.1 | 0.5 | ug/l | 103 | | 70-130 | | |
| Sample number(s): 5621919 | | | | | | | | | |

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

| <u>Analysis Name</u> | <u>MS %REC</u> | <u>MSD %REC</u> | <u>MS/MSD Limits</u> | <u>RPD</u> | <u>RPD MAX</u> | <u>BKG Conc</u> | <u>DUP Conc</u> | <u>DUP RPD</u> | <u>Dup RPD Max</u> |
|--|----------------|-----------------|----------------------|------------|----------------|-----------------|-----------------|----------------|--------------------|
| Batch number: S090781BA | | | | | | | | | |
| Sample number(s): 5621915-5621921 UNSPK: P624005 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 118 | 109 | 70-130 | 8 | 30 | | | | |
| Dichlorodifluoromethane | 109 | 86 | 70-130 | 24 | 30 | | | | |
| 2,2-Dichloropropane | 115 | 107 | 70-130 | 7 | 30 | | | | |
| cis-1,2-Dichloroethene | 110 | 105 | 70-130 | 5 | 30 | | | | |
| Bromochloromethane | 116 | 112 | 70-130 | 3 | 30 | | | | |
| 1,1-Dichloropropene | 115 | 109 | 70-130 | 5 | 30 | | | | |
| Dibromomethane | 117 | 110 | 70-130 | 6 | 30 | | | | |
| 1,3-Dichloropropane | 116 | 108 | 70-130 | 6 | 30 | | | | |
| 1,2-Dibromoethane | 111 | 103 | 70-130 | 7 | 30 | | | | |
| m+p-Xylene | 115 | 107 | 70-130 | 7 | 30 | | | | |
| o-Xylene | 108 | 101 | 70-130 | 7 | 30 | | | | |
| Isopropylbenzene | 111 | 101 | 70-130 | 10 | 30 | | | | |
| Bromobenzene | 110 | 102 | 70-130 | 7 | 30 | | | | |
| 1,2,3-Trichloropropane | 112 | 103 | 70-130 | 8 | 30 | | | | |
| n-Propylbenzene | 118 | 108 | 70-130 | 8 | 30 | | | | |
| 2-Chlorotoluene | 117 | 109 | 70-130 | 7 | 30 | | | | |
| 1,3,5-Trimethylbenzene | 114 | 106 | 70-130 | 7 | 30 | | | | |
| 4-Chlorotoluene | 119 | 109 | 70-130 | 8 | 30 | | | | |
| tert-Butylbenzene | 114 | 105 | 70-130 | 8 | 30 | | | | |
| 1,2,4-Trimethylbenzene | 115 | 105 | 70-130 | 9 | 30 | | | | |
| sec-Butylbenzene | 115 | 105 | 70-130 | 9 | 30 | | | | |
| p-Isopropyltoluene | 124 | 114 | 70-130 | 8 | 30 | | | | |
| 1,3-Dichlorobenzene | 111 | 103 | 70-130 | 8 | 30 | | | | |
| 1,4-Dichlorobenzene | 112 | 103 | 70-130 | 8 | 30 | | | | |
| n-Butylbenzene | 121 | 112 | 70-130 | 7 | 30 | | | | |
| 1,2-Dichlorobenzene | 110 | 104 | 70-130 | 6 | 30 | | | | |
| 1,2-Dibromo-3-chloropropane | 105 | 101 | 70-130 | 4 | 30 | | | | |

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Draper Aden Associates, Inc.
 Reported: 03/25/09 at 01:25 PM

Group Number: 1136025

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---------------------------|------------|-------------|------------------|-----|------------|-------------|-------------|------------|----------------|
| 1,2,4-Trichlorobenzene | 101 | 95 | 70-130 | 6 | 30 | | | | |
| Hexachlorobutadiene | 100 | 93 | 70-130 | 7 | 30 | | | | |
| Naphthalene | 95 | 93 | 70-130 | 2 | 30 | | | | |
| 1,2,3-Trichlorobenzene | 98 | 94 | 70-130 | 4 | 30 | | | | |
| trans-1,3-Dichloropropene | 117 | 109 | 70-130 | 7 | 30 | | | | |
| cis-1,3-Dichloropropene | 115 | 107 | 70-130 | 7 | 30 | | | | |
| Chloromethane | 132* | 102 | 70-130 | 25 | 30 | | | | |
| Bromomethane | 130 | 105 | 70-130 | 22 | 30 | | | | |
| Vinyl Chloride | 106 | 87 | 70-130 | 19 | 30 | | | | |
| Chloroethane | 119 | 95 | 70-130 | 22 | 30 | | | | |
| Trichlorofluoromethane | 120 | 98 | 70-130 | 20 | 30 | | | | |
| 1,1-Dichloroethene | 105 | 103 | 70-130 | 2 | 30 | | | | |
| Methylene Chloride | 121 | 116 | 70-130 | 4 | 30 | | | | |
| trans-1,2-Dichloroethene | 112 | 106 | 70-130 | 5 | 30 | | | | |
| 1,1-Dichloroethane | 105 | 102 | 70-130 | 2 | 30 | | | | |
| Chloroform | 120 | 112 | 70-130 | 7 | 30 | | | | |
| 1,1,1-Trichloroethane | 117 | 110 | 70-130 | 6 | 30 | | | | |
| Carbon Tetrachloride | 125 | 116 | 70-130 | 7 | 30 | | | | |
| Benzene | 117 | 112 | 70-130 | 5 | 30 | | | | |
| 1,2-Dichloroethane | 118 | 110 | 70-130 | 7 | 30 | | | | |
| Trichloroethene | 114 | 106 | 70-130 | 7 | 30 | | | | |
| 1,2-Dichloropropane | 108 | 102 | 70-130 | 6 | 30 | | | | |
| Bromodichloromethane | 126 | 115 | 70-130 | 9 | 30 | | | | |
| Toluene | 116 | 108 | 70-130 | 7 | 30 | | | | |
| 1,1,2-Trichloroethane | 129 | 118 | 70-130 | 9 | 30 | | | | |
| Tetrachloroethene | 118 | 111 | 70-130 | 6 | 30 | | | | |
| Dibromochloromethane | 119 | 115 | 70-130 | 4 | 30 | | | | |
| Chlorobenzene | 114 | 108 | 70-130 | 5 | 30 | | | | |
| Ethylbenzene | 106 | 100 | 70-130 | 6 | 30 | | | | |
| Styrene | 118 | 111 | 70-130 | 6 | 30 | | | | |
| Bromoform | 126 | 113 | 70-130 | 11 | 30 | | | | |
| 1,1,2,2-Tetrachloroethane | 122 | 115 | 70-130 | 6 | 30 | | | | |

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: EPA Method 524.2

Batch number: S090781BA

4-Bromofluorobenzene 1,2-Dichlorobenzene-d4

| | | |
|---------|----|----|
| 5621915 | 92 | 87 |
| 5621916 | 92 | 88 |
| 5621917 | 99 | 93 |
| 5621918 | 96 | 91 |
| 5621919 | 96 | 91 |
| 5621920 | 93 | 89 |
| 5621921 | 99 | 93 |
| Blank | 94 | 87 |

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Draper Aden Associates, Inc.
Reported: 03/25/09 at 01:25 PM

Group Number: 1136025

Surrogate Quality Control

| | | |
|-----|-----|-----|
| LCS | 104 | 104 |
| MS | 103 | 107 |
| MSD | 102 | 104 |

| | | |
|---------|--------|--------|
| Limits: | 80-120 | 80-120 |
|---------|--------|--------|

Analysis Name: EPA Method 524.2

Batch number: S090791AA

| | |
|----------------------|------------------------|
| 4-Bromofluorobenzene | 1,2-Dichlorobenzene-d4 |
|----------------------|------------------------|

| | | |
|-------|-----|-----|
| Blank | 99 | 94 |
| LCS | 106 | 109 |

| | | |
|---------|--------|--------|
| Limits: | 80-120 | 80-120 |
|---------|--------|--------|

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

11200/1136025/5621915-21

CHAIN OF CUSTODY RECORD

Laboratory: Lancaster Laboratories, 2425 New Holland Pike, Lancaster, PA, 17605-2425/ Barbara Weyandt, Manager/ (717) 656-2300

| | | | |
|--|--|--|--|
| Client: Watauga County, NC Attn: Mr. J.V. Potter Address: 842 West King Street/Courthouse, Suite 1 Boone, NC 28607 Phone: (704) 265-8003 Fax: 0 Fax: 0 | Consultant: Draper Aden Associates Attn: Janet C. Frazier Address: 2206 South Main Street Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291 | Sample Site: Watauga County Landfill Location: Watauga County, NC Event: March 2009 Semiannual Assess. Monitoring Event DAA JN: 8520-39 Lab JN: | Project Specific (PS) or Batch (B) QC: <input checked="" type="checkbox"/> PS <input type="checkbox"/> B Sample Collection for Project Complete? (See Note 1) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Carrier: UPS Tracking Number: 1Z2373012310002793 |
|--|--|--|--|

| | | | | |
|---|---|--|--|---|
| Box 1: Matrix SW Surface Water T Trip Blank GW Groundwater E Equipment Blank L Leachate P Product S Soil O Other | Box 2: Preservative A HCL E NaOH B HNO ₃ F ZnAc C H ₂ SO ₄ G Other (Specify) D Na ₂ S ₂ O ₃ H None | Box 3: Filtered/Unfiltered F Filtered U Unfiltered Box 5: Sample Container Type P Plastic V VOA AG Amber Glass CG Clear Glass | Box 4: Sample Type G Grab C Composite | Invoice Copy to Consultant: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Bill: <input checked="" type="checkbox"/> Client <input type="checkbox"/> Consultant Preserved and shipped on Ice: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
|---|---|--|--|---|

| | |
|-------------------------------|----------|
| Box 4 - Sample Type | G |
| Box 3 - Filtered/Unfiltered | U |
| Required pH of Sample | <2 |
| Box 2 - Preservative | A |
| Box 5 - Sample Container Type | 3-40ml V |

GENERAL NOTES: (Lancaster level 1 deliverable) Report Quantitation Limit, detection limit and estimated results "J" flag. VA Drinking Water certification OK through 07/31/2009. NOTE NC certification (DW) on lab results.

| Sample ID | Date: 2009 | Time | Box 1: Matrix | Number of Bottles | Volatiles - 624.2 | | | |
|-------------------|------------|------|---------------|-------------------|-------------------|--|--|--------------------------------------|
| RES-1 | 03/12 | 1415 | GW | 3 | X | | 2238 Hwy 421 S. (Bolick) | Well reference # 1 |
| RES-21 | | | GW | 3 | X | | 142 Green Drier Road (Find) | Well reference # 21 |
| H & G Produce | 03/12 | 1440 | GW | 3 | X | | 230 Cabbage Row (Hollar & Greene) | Well reference # 6 |
| RES-16 | 03/12 | 1050 | GW | 3 | X | | 2711 Hwy 421 S (Greer) | Well reference # 15 |
| RES-16 | 03/12 | 1040 | GW | 3 | X | | 2737 Hwy 421 S (Williamson) | Well reference # 16 |
| BREMCO | 03/12 | 1355 | GW | 3 | X | | 2491 Hwy 421 S. (Bremco) | Well reference # 5 |
| RES-2 | 03/12 | 1405 | GW | 3 | X | | 2347 Hwy. 421 S. (Bolick Rental) | Well Reference # 2 |
| TRIP BLANK | 02/26 | - | T | 12 | X | | | No time provided by lab - CPB 3/6/09 |

Remove from sample 1000 list CPB 3/12/09

Client's Special Instructions:
 Received by lab in Good Condition ___ Yes ___ No Custody Seal Intact ___ Yes ___ No Temperature upon arrival ___ Received on Ice ___ Yes ___ No
 Describe problems, if any:

| | | | |
|---|---|--|---|
| Sampler Name: Chris Branacome (Print): Chris Branacome Signature: Chris Branacome Date: 03/11/09 Time: 0700 | #1 Relinquished by (Signature): Chris Branacome Date: 03/12/09 Company Name: Draper Aden Associates Time: 1760 | #2 Relinquished by (Signature): [Signature] Date: 3/13/09 Company Name: [Company] Time: 900 | Sample Storage Time Requested: 30 DYS ORG/6 MTHS INORG |
|---|---|--|---|

113 JUN 24 09

| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
|-------------|----------------------------|---------------|-----------------|-------|----------|------|
| 524.2 | Volatile Organics | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Dichlorodifluoromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chloromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Vinyl chloride | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromomethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Trichlorofluoromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1-Dichloroethene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Methylene chloride | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | trans-1,2-Dichloroethene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1-Dichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 2,2-Dichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | cis-1,2-Dichloroethene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromochloromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chloroform | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,1-Trichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1-Dichloropropene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Carbon tetrachloride | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Benzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Trichloroethene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Dibromomethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromodichloromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | cis-1,3-Dichloropropene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Toluene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | trans-1,3-Dichloropropene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,2-Trichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Tetrachloroethene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,3-Dichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Dibromochloromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dibromoethane (EDB) | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chlorobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,1,2-Tetrachloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Ethylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | m,p-Xylenes | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Xylenes (total) | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | o-Xylene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Styrene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromoform | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Isopropylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,2,2-Tetrachloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2,3-Trichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | n-Propylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 2-Chlorotoluene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,3,5-Trimethylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 4-Chlorotoluene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | tert-Butylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |

n Description = Dry Wgt.

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To: JLR
 8/16/01
 8419060
 524.2
 08/3-15-05
 8419060
 524.2

| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING TIME | UNITS | DATE | TECH |
|-------------|-----------------------------|---------------|----------------|-------|----------|------|
| | 1,2,4-Trimethylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | sec-Butylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,3-Dichlorobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | p-Isopropyltoluene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,4-Dichlorobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | n-Butylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dichlorobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dibromo-3-chloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2,4-Trichlorobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Hexachlorobutadiene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Naphthalene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2,3-Trichlorobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |

In Description = Dry Wgt.

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Environmental Sample Administration Receipt Documentation Log

Client/Project: Draper Alan
 Date of Receipt: 3/13/09
 Time of Receipt: 9:10 9:00
 Source Code: 501 60-1
 Unpacker Emp. No.: 2316

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

| Temperature of Shipping Containers | | | | | | | |
|------------------------------------|----------------|------------------|---------------------------------------|--|------------------|--------------------------------|----------|
| Cooler # | Thermometer ID | Temperature (°C) | Temp Bottle (TB) or Surface Temp (ST) | Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP) | Ice Present? Y/N | Loose (L) Bagged Ice (B) or NA | Comments |
| 1 | D12593 | 3.10C | TB | WIS | Y | B | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |

Number of Trip Blanks received NOT listed on chain of custody: 2 GLR 3/13/09

Paperwork Discrepancy/Unpacking Problems:

Received 4 Trip Blanks.

| Sample Administration Internal Chain of Custody | | | |
|---|----------------|-------------|----------------------------------|
| Name | Date | Time | Reason for Transfer |
| <u>Draper Alan</u> | <u>3/13/09</u> | <u>1620</u> | Unpacking <u>W</u> <u>500</u> |
| <u>[Signature]</u> | <u>3/13/09</u> | <u>1639</u> | Place in Storage or <u>Entry</u> |
| | | | Entry |
| | | | Entry |

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|-------------------------|--|------------------------|--|
| N.D. | none detected | BMQL | Below Minimum Quantitation Level |
| TNTC | Too Numerous To Count | MPN | Most Probable Number |
| IU | International Units | CP Units | cobalt-chloroplatinate units |
| umhos/cm | micromhos/cm | NTU | nephelometric turbidity units |
| C | degrees Celsius | F | degrees Fahrenheit |
| Cal | (diet) calories | lb. | pound(s) |
| meq | milliequivalents | kg | kilogram(s) |
| g | gram(s) | mg | milligram(s) |
| ug | microgram(s) | l | liter(s) |
| ml | milliliter(s) | ul | microliter(s) |
| m3 | cubic meter(s) | fib >5 um/ml | fibers greater than 5 microns in length per ml |
| < | less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test. | | |
| > | greater than | | |
| ppm | parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas. | | |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. | | |

U.S. EPA data qualifiers:

| Organic Qualifiers | Inorganic Qualifiers |
|---|--|
| A TIC is a possible aldol-condensation product | B Value is <CRDL, but ≥IDL |
| B Analyte was also detected in the blank | E Estimated due to interference |
| C Pesticide result confirmed by GC/MS | M Duplicate injection precision not met |
| D Compound quantitated on a diluted sample | N Spike amount not within control limits |
| E Concentration exceeds the calibration range of the instrument | S Method of standard additions (MSA) used for calculation |
| J Estimated value | U Compound was not detected |
| N Presumptive evidence of a compound (TICs only) | W Post digestion spike out of control limits |
| P Concentration difference between primary and confirmation columns >25% | * Duplicate analysis not within control limits |
| U Compound was not detected | + Correlation coefficient for MSA <0.995 |
| X,Y,Z Defined in case narrative | |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Data Validation Report for Inorganics Fraction. Monitoring Event: 3/13/2009

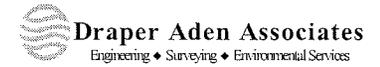


Watauga County Landfill Facility ID 95-02

| Analyte | Sample ID | Laboratory Results (ug/L) | Validated Results (ug/L) | CRDL (ug/L) | Validation Notes |
|--|-----------|---------------------------|--------------------------|-------------|---|
| Method: ILM04.1 | | | | | |
| Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC | | | | | |
| BARIUM | MW-2 | 224 | 224 | 200 | No action taken. |
| | MW-3 | 168 B | 168 J | 200 | Result < CRDL. |
| | MW-8 | 113 B | 113 J | 200 | Result < CRDL. |
| | MW-9 | 594 | 594 | 200 | No action taken. |
| | MW-12 | 326 | 326 | 200 | No action taken. |
| | MW-17 | 510 | 510 | 200 | No action taken. |
| CHROMIUM | MW-2 | 2.6 B | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). |
| | MW-3 | 42.6 | 42.6 | 10 | No action taken. |
| | MW-8 | 13.1 | 13.1 | 10 | No action taken. |
| | MW-9 | 0.88 B | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). |
| | MW-12 | 0.8 B | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). |
| | MW-17 | 2.3 B | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). |
| COBALT | MW-3 | 4.1 B | 4.1 J | 50 | Result < CRDL. |
| | MW-8 | 3.6 B | 3.6 J | 50 | Result < CRDL. |
| | MW-9 | 8.3 B | 8.3 J | 50 | Result < CRDL. |
| | MW-12 | 1.7 B | 1.7 J | 50 | Result < CRDL. |
| | MW-17 | 4.9 B | 4.9 J | 50 | Result < CRDL. |
| IRON | MW-2 | 440 | 440 | 100 | No action taken. |
| | MW-3 | 6850 | 6850 | 100 | No action taken. |
| | MW-8 | 5490 | 5490 | 100 | No action taken. |
| | MW-9 | 144 | U A | 100 | Blank contamination in the prep blank (49.5 ug/l) and calibration blank (25.1 ug/l). Result < 5x blank contamination. CRDL adjusted to sample result concentration. |
| | MW-17 | 948 | 948 | 100 | No action taken. |
| NICKEL | MW-2 | 3.5 B | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). |
| | MW-3 | 25.8 B | 25.8 J | 40 | Result < CRDL. |

Definitions: CRDL Denotes contract required detection limit. B Denotes result < CRDL, an estimated value (a laboratory data qualifier). R Denotes result is rejected. J Denotes result is estimated. Target analytes not listed above were not detected above detection limit and no data qualification was required.

Data Validation Report for Inorganics Fraction. Monitoring Event: 3/13/2009



Watauga County Landfill Facility ID 95-02

| Analyte | Sample ID | Laboratory Results (ug/L) | Validated Results (ug/L) | CRDL (ug/L) | Validation Notes |
|--|-----------|---------------------------|--------------------------|-------------|---|
| Method: ILM04.1 | | | | | |
| Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC | | | | | |
| NICKEL | MW-8 | 7.3 B | 7.3 J | 40 | Result < CRDL. |
| | MW-9 | 2.3 B | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). |
| | MW-12 | 4 B | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). |
| | MW-17 | 3.6 B | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). |
| VANADIUM | MW-2 | 2.1 B | 2.1 J | 50 | Result < CRDL. |
| | MW-3 | 14.6 B | 14.6 J | 50 | Result < CRDL. |
| | MW-8 | 13.3 B | 13.3 J | 50 | Result < CRDL. |
| | MW-9 | 0.64 B | 0.64 J | 50 | Result < CRDL. |
| | MW-12 | 0.89 B | 0.89 J | 50 | Result < CRDL. |
| | MW-17 | 2.1 B | 2.1 J | 50 | Result < CRDL. |

Definitions: CRDL Denotes contract required detection limit. B Denotes result < CRDL, an estimated value (a laboratory data qualifier). R Denotes result is rejected. J Denotes result is estimated. Target analytes not listed above were not detected above detection limit and no data qualification was required.

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-05
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 326 | | | P |
| 7440-47-3 | Chromium | 0.80 | B | | P |
| 7440-48-4 | Cobalt | 1.7 | B | | P |
| 7439-89-6 | Iron | 24.6 | U | | P |
| 7440-02-0 | Nickel | 4.0 | B | | P |
| 7440-62-2 | Vanadium | 0.89 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-06
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 510 | | | P |
| 7440-47-3 | Chromium | 2.3 | B | | P |
| 7440-48-4 | Cobalt | 4.9 | B | | P |
| 7439-89-6 | Iron | 948 | | | P |
| 7440-02-0 | Nickel | 3.6 | B | | P |
| 7440-62-2 | Vanadium | 2.1 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Matrix (soil/water): WATER Lab Sample ID: 0903084-02

Level (low/med): LOW Date Received: 3/13/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 224 | | | P |
| 7440-47-3 | Chromium | 2.6 | B | | P |
| 7440-48-4 | Cobalt | 1.6 | U | | P |
| 7439-89-6 | Iron | 440 | | | P |
| 7440-02-0 | Nickel | 3.5 | B | | P |
| 7440-62-2 | Vanadium | 2.1 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-01
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 168 | B | | P |
| 7440-47-3 | Chromium | 42.6 | | | P |
| 7440-48-4 | Cobalt | 4.1 | B | | P |
| 7439-89-6 | Iron | 6850 | | | P |
| 7440-02-0 | Nickel | 25.8 | B | | P |
| 7440-62-2 | Vanadium | 14.6 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-03
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 113 | B | | P |
| 7440-47-3 | Chromium | 13.1 | | | P |
| 7440-48-4 | Cobalt | 3.6 | B | | P |
| 7439-89-6 | Iron | 5490 | | | P |
| 7440-02-0 | Nickel | 7.3 | B | | P |
| 7440-62-2 | Vanadium | 13.3 | B | | P |

Color Before: BROWN Clarity Before: CLEAR Texture: _____

Color After: BROWN Clarity After: CLEAR Artifacts: _____

Comments: _____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-04
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 594 | | | P |
| 7440-47-3 | Chromium | 0.88 | B | | P |
| 7440-48-4 | Cobalt | 8.3 | B | | P |
| 7439-89-6 | Iron | 144 | | | P |
| 7440-02-0 | Nickel | 2.3 | B | | P |
| 7440-62-2 | Vanadium | 0.64 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

SECTION 1.1

Volatiles Data Validation Forms GC/MS



Draper Aden Associates

Engineering ♦ Surveying ♦ Environmental Services

**USEPA CLP SOW OLM04.3 - VOLATILE ORGANIC ANALYSIS (VOA) DATA
VALIDATION SUMMARY**

Draper Aden Associates performed a limited manual review of the analytical results for volatile organic analytes analyzed in general accordance with the requirements of the USEPA CLP Statement of Work (SOW) document number OLM04.3. Draper Aden Associates collected samples from surface water locations S-1, S-2, S-3, S-4, S-5 and S-6 during the March 11-12, 2009 sampling event at the Watauga County Landfill, Facility ID 95-02. Samples were analyzed for sixteen target analytes which included benzene, chlorobenzene; 1,4-dichlorobenzene; chloroethane, dichlorodifluoromethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethylene; cis-1,2-dichloroethylene; trans-1,2-dichloroethylene; 1,2-dichloropropane, tetrachloroethylene; 1,1,1-trichloroethane, trichloroethylene, methylene chloride, vinyl chloride. The following information and attached table summarize the data validation results.

CompuChem, a Division of Liberty Analytical Corp., (CompuChem), of Cary, North Carolina, performed the GC/MS analysis. On behalf of Watauga County, CompuChem submitted results to Draper Aden Associates in a final certificate of analysis, which included sample analytical results as well as relevant documentation to validate and verify the analytical results. The original certificate of analysis was received March 27, 2009.

The evaluation of CompuChem's compliance with the method was based on a limited review of the following items: QC deliverables package, case narrative, technical holding time and preservation requirements, instrument performance check, instrument calibrations, blank analysis, system monitoring recoveries, matrix spike/matrix spike duplicate (MS/MSD) analysis, internal standard requirements, laboratory control samples (LCS), and confirmation of detected analytes. Review of transcriptions from raw data to summary sheets was performed. Specific representative calculations were not performed except where noted. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met, except the samples were received in the laboratory at 1°C. The samples were not frozen and no data qualification was required.

The certificate of analysis presented data which were of acceptable quality. Holding time, preservation, BFB tuning, initial and continuing calibration, blank, system (surrogate) monitoring, MS/MSD, internal standard and LCS requirements were met, except where noted below. No transcription errors were noted. No deviations from specific QA/QC criteria were identified during the data review process.

Several target analytes were detected below the contract required quantitation limit (CRQL) in sample S-2 and S-4. No other target analytes were detected in any sample. Results remain as reported by the laboratory.

CLP VOLATILE ORGANIC ANALYSIS DATA VALIDATION

Sample ID: S-1, S-2, S-3, S-4, S-5, S-6
QC Samples: Batch QC, Trip blank, Lab blanks, LCSs
Laboratory: CompuChem, a Division of Liberty Analytical Corp., Cary, NC-SDG 0903085

- Were all samples analyzed under CLP SOW for organic analysis and did the analyte list include dichlorodifluoromethane? YES NO

Comment: Samples were analyzed under CLP protocol (OLM04.3). Target analytes included: benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, dichlorodifluoromethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloroethane, methylene chloride, 1,1,1-trichloroethane, trichloroethene, tetrachloroethene, vinyl chloride

A. CLP TECHNICAL HOLDING TIME AND PRESERVATION CRITERIA:

1. Was the 14-day sample collection to analysis holding time met? YES NO
2. Were the samples received at 4°C (± 2°C) and zero headspace? YES NO
3. Were the samples preserved & pHs adjusted to <2 with HCl? YES NO
4. If samples were not preserved, were they analyzed within 7 days? NA

Comment: Holding time and preservation criteria were met.

B. GCMS INSTRUMENT PERFORMANCE CHECK CRITERIA:

1. Was analysis of the instrument performance check solution performed at the beginning of each 12 hour period during which standards or samples were analyzed? YES NO
2. Was there documentation of the injection of a 50 ng bromofluorobenzene (BFB) solution? YES NO
3. Were all ion abundance criteria met? (CLP Form V VOA) YES NO

Comment: Instrument performance check criteria were met.

C. INITIAL GCMS CALIBRATION CRITERIA:

- * Were initial calibrations (ICAL) and any directly associated blanks and samples analyzed within 12 hours of the associated instrument performance (tune) check? YES NO
- 1. **CLP Validation Criteria:**
 - * Were quantitation ions randomly checked against the primary quantitation ions required by the method? YES NO

- * Were all RRFs calculated based on the internal standard associated with that analyte as listed in the method? YES NO
- * Did all target analytes and system monitoring compounds (surrogates) have RRFs ≥ 0.05 and %RSDs $\leq 30.0\%$? YES NO
If not, list compounds which exceed criteria:
- * Were 10% of the analytes recalculated? YES NO

2. CLP Contractual Requirements:

- * Refer to Table 5 of OLMO4.3 and evaluate all relative response factors and % RSD results for method compliance. (Up to two compounds may fail these criteria however; these analytes must have a minimum RRF ≥ 0.0100 and a % RSD ≤ 40 .)
- * Did ICAL meet the CLP initial calibration criteria? YES NO
- * If not, explain:

3. CLP Contractual Criteria (Superfund Organic Methods, June 2008)

- * Refer to Table 4 of SOMO1.2 and evaluate RRF and % RSD results for method compliance. Did target analytes have RRFs ≥ 0.05 and %RSDs $\leq 20.0\%$? YES NO
If not, list compounds which exceed criteria:

Comment: Initial calibration criteria were met.

D. CONTINUING GCMS CALIBRATION CRITERIA:

- * Were continuing calibrations (CCAL) analyzed at the beginning of each 12 hour period following the analysis of the instrument performance check and prior to analysis of the method blank and samples? The CCAL may be part of the ICAL or run independently on another 12 hour analysis period. YES NO

1. CLP Validation Criteria:

- * Did all target analytes and surrogates have RRFs ≥ 0.05 and %D within $\pm 25.0\%$? YES NO
If not, list compounds which exceed criteria: NA YES NO
- * Were 10% of the analytes recalculated? YES NO

2. CLP Contractual Requirements:

- * Evaluate RRFs and %D results based on Table 5 of OLM04.3
- * Did the CCAL meet CLP continuing calibration criteria? YES NO

Comment: Continuing calibration criteria were met.

E. BLANK CRITERIA:

- 1. Was a method blank analyzed after the calibration standards, prior to sample analysis, and once for every 12 hour period? YES NO

2. Was a blank also analyzed after highly contaminated samples to prevent carry over contamination? NA YES NO
3. Was a trip blank analyzed with this sample batch? YES NO
4. Were the trip blanks and method blanks interference free? YES NO
5. Were any target analytes detected in other associated blanks? YES NO
6. List target analytes detected in the blanks: none

Comment: Blank criteria were met.

F. SYSTEM MONITORING (SURROGATE) COMPOUNDS CRITERIA:

CLP Performance Criteria:

1. Were all three system monitoring compounds added to all samples and blanks to measure their recoveries in sample matrices? YES NO
2. Were recoveries for the following analytes within the limits? YES NO
 - * 1,2-dichloroethane-d₄ (76-114%)
 - * 4-bromofluorobenzene (86-115%)
 - * toluene-d₈ (88-110%)

Comment: System monitoring compounds criteria were met.

G. MATRIX SPIKE, MATRIX SPIKE DUPLICATE CRITERIA:

1. Was the MS/MSD analyzed at a frequency of one MS and MSD per 20 samples of a similar matrix? NA YES NO
2. Were spike recoveries within limits provided below, and as shown on Form III VOA? NA YES NO

| <i>Compound</i> | <i>% R-Water</i> | <i>% RPD Water</i> |
|--------------------|------------------|--------------------|
| 1,1-dichloroethene | 61-145 | ≤ 14 |
| trichloroethene | 71-120 | ≤ 14 |
| benzene | 76-127 | ≤ 11 |
| toluene | 76-125 | ≤ 13 |
| chlorobenzene | 75-130 | ≤ 13 |

3. Were relative percent differences (RPDs) between MS/MSD recoveries within the advisory limits provided above, and as shown on Form III VOA? YES NO

Comment: LCS/LCSD was used to meet the MS/MSD criteria. MS/MSD criteria were met, where applicable.

H. INTERNAL STANDARDS CRITERIA:

1. Were internal standard (IS) areas within -50% to +100% of the CCAL? YES
2. Were the IS retention times within +/- 30 seconds of the last CCAL? YES NO

3. Were the following IS used? YES NO
- * bromochloromethane
 - * 1,4-difluorobenzene
 - * chlorobenzene-d₅

Comment: Internal standards criteria were met.

I. TARGET ANALYTE IDENTIFICATION:

1. Were the RRTs of the reported analytes within +/- 0.06 RRT units of the standard RRT? YES NO
2. Check the sample spectra against the laboratory standard spectra to see that the following criteria were met:
- * Were all ions present in the standard spectra at a relative intensity of >10 %, present in the sample spectra?
 - * Were the relative intensities of the ion between the standard and sample spectra within +/-20%? Consider and account for ions present at > 10% in the sample spectra and not in the standard spectra.
3. Were all reported analytes confirmed? YES NO
4. Were all analyte concentrations which were recorded on the raw sample quantitation reports accurately transferred to the sample summary sheets? YES NO

Comment: Target analyte identification criteria were met. Several target analytes were detected below the contract required quantitation limit (CRQL) in samples S-2 and S-4. No other target analytes were detected in any other sample.

J. TARGET ANALYTE QUANTITATION:

1. Was the correct internal standard, quantitation ion, and RRF used to quantitate the analyte? YES NO
2. Were the same internal standards, quantitation ions, and RRFs used consistently throughout, in both the calibration and quantitation process? YES NO
3. Were checks for peak splitting and tailing performed? YES NO
4. List all samples which required dilution: *None*

Comment: Target analyte quantitation was accurate. Several target analytes were detected below the contract required quantitation limit (CRQL) in samples S-2 and S-4. Results remain as reported by the laboratory. No other target analytes were detected in any sample.

K. TENTATIVELY IDENTIFIED COMPOUNDS (TICs) VIA LIBRARY SEARCHES

Tentatively identified compounds denoted as laboratory contaminants and compounds that could not be tentatively identified, "unknowns", were not tabulated.

For this monitoring event, no tentatively identified compounds (TIC) were reported.

L. SYSTEM PERFORMANCE:

1. Evaluate the overall system performance over the course of the 12 hour tune/calibration period based on:
 - * shifts in chromatographic baseline
 - * extraneous peaks
 - * loss of resolution
 - * peak tailing or splitting
 - * trends in increase or decrease of IS areas
2. Was the overall system performance satisfactory unsatisfactory

Comment: The operation system appeared stable.

M. ADDITIONAL COMMENTS:

Comment: The laboratory prepared and analyzed the samples using the CLP Statement of Work (SOW) document number OLM04.3. This SOW corresponded with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999)*. The latest CLP Statement of Work (SOW) document number SOM01.2 corresponded with the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008)*. Data was evaluated using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999)*, except where noted. No revisions were needed.

REFERENCES:

Draper Aden Associates conducted a limited data validation of the above noted data set using summary tables and raw data provided by the analyzing laboratory. Data evaluation was conducted in general accordance with *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999)* and where applicable with *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008)*. Validation of this data set is limited to the items detailed in this report.

LIMITATIONS:

Draper Aden Associates prepared this document (which may include drawings, specifications, reports, studies and attachments) in accordance with the agreement between Draper Aden Associates and the client.

The standard of care for all professional engineering, environmental and surveying and related services performed or furnished by Draper Aden Associates under this Agreement are the care and skill ordinarily used by members of these professions practicing under similar circumstances at the same time and in the same locality. Draper Aden Associates makes no warranties, express or implied, under this Agreement in connection with Draper Aden Associates' services.

Conclusions presented are based upon a review of available information, the results of our field studies, and/or professional judgment. To the best of our knowledge, information provided by others is true and accurate, unless otherwise noted.

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This Report has been prepared by:

| | |
|---|--------------------------|
| <u>Kathy Olsen</u> Kathy Olsen, Environmental Scientist 2206 South Main Street, Blacksburg, Virginia 24060 540-552-0444, kolsen@daa.com , www.daa.com | <u>04/13/09</u> Date: |
|---|--------------------------|

This Report has been subjected to technical and quality review by:

| | |
|--|-------------------------|
| <u>JCF</u> Janet C. Frazier, Project Manager 2206 South Main Street, Blacksburg, Virginia 24060 540-552-0444, jfrazier@daa.com , www.daa.com | <u>4/23/09</u> Date: |
|--|-------------------------|

SECTION 1.2

**Revisions to Original Data Set
GC/MS**



Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

CompuChem
Analyst Capability

| Laboratory Name/North Carolina Certificate Number: CompuChem/79 | | | | | | | | | | | |
|---|-----------------|----------------|-----------------|----------------|-----------------|--------------|-------------|-------------|-----------------|----------|--------------|
| Analyst: Timothy Do/2660 | | | | | | | | | | | |
| Study Date: July 13 & July 17, 2007 | | | | | | | | | | | |
| Method: OLM04.3 water & soil; 8260B water & soil | | | | | | | | | | | |
| Instrument: 5975hpms91 | | | | | | | | | | | |
| Compound | TrueVal ug/L | VAJLCD ug/L | VAJLCSD ug/L | VBMLCS ug/L | VBMLCSD ug/L | Mean ug/L | Mean % R | SOP* % R | SD(n-1) ug/L | RSD % | SOP % RSD |
| Chloromethane | 50 | 53 | 56 | 52 | 53 | 54 | 107 | | 1.6 | 3 | 20.5 |
| Vinyl Chloride | 50 | 53 | 58 | 55 | 55 | 55 | 110 | | 1.9 | 3 | 20.5 |
| Bromomethane | 50 | 51 | 56 | 50 | 51 | 52 | 104 | | 2.7 | 5 | 20.5 |
| Chloroethane | 50 | 54 | 54 | 53 | 54 | 54 | 108 | | 0.3 | 1 | 20.5 |
| Vinyl acetate | 50 | 54 | 53 | 51 | 48 | 52 | 103 | | 2.8 | 5 | 20.5 |
| 1,1-Dichloroethene | 50 | 51 | 54 | 56 | 54 | 54 | 108 | 61-145 | 1.7 | 3 | 20.5 |
| Acetone | 50 | 43 | 33 | 63 | 42 | 46 | 91 | | 12.7 | 28 | 20.5 |
| Carbon Disulfide | 50 | 52 | 54 | 56 | 53 | 54 | 108 | | 1.6 | 3 | 20.5 |
| Methylene Chloride | 50 | 49 | 51 | 53 | 51 | 51 | 102 | | 1.5 | 3 | 20.5 |
| trans-1,2-Dichloroethene | 50 | 51 | 53 | 56 | 54 | 53 | 107 | | 2.2 | 4 | 20.5 |
| 1,1-Dichloroethane | 50 | 50 | 52 | 56 | 53 | 53 | 106 | | 2.6 | 5 | 20.5 |
| cis-1,2-Dichloroethene | 50 | 51 | 53 | 54 | 52 | 52 | 105 | | 1.3 | 2 | 20.5 |
| 2-Butanone | 50 | 45 | 40 | 59 | 44 | 47 | 93 | | 8.3 | 18 | 20.5 |
| Chloroform | 50 | 51 | 52 | 55 | 53 | 53 | 105 | | 1.9 | 4 | 20.5 |
| 1,1,1-Trichloroethane | 50 | 50 | 54 | 55 | 53 | 53 | 106 | | 1.9 | 4 | 20.5 |
| Carbon Tetrachloride | 50 | 50 | 53 | 55 | 54 | 53 | 107 | | 2.2 | 4 | 20.5 |
| Benzene | 50 | 49 | 51 | 52 | 51 | 51 | 102 | 76-127 | 1.6 | 3 | 20.5 |
| 1,2-Dichloroethane | 50 | 52 | 53 | 56 | 52 | 53 | 107 | | 1.9 | 4 | 20.5 |
| Trichloroethene | 50 | 50 | 52 | 53 | 51 | 51 | 103 | 71-120 | 1.2 | 2 | 20.5 |
| 1,2-Dichloropropane | 50 | 48 | 50 | 52 | 52 | 50 | 101 | | 1.8 | 4 | 20.5 |
| Bromodichloromethane | 50 | 49 | 52 | 53 | 51 | 51 | 103 | | 1.8 | 4 | 20.5 |
| cis-1,3-Dichloropropene | 50 | 48 | 52 | 51 | 49 | 50 | 100 | | 1.5 | 3 | 20.5 |
| 4-Methyl-2-Pentanone | 50 | 47 | 52 | 54 | 49 | 50 | 101 | | 3.0 | 6 | 20.5 |
| Toluene | 50 | 48 | 52 | 53 | 52 | 51 | 102 | 76-125 | 2.2 | 4 | 20.5 |
| trans-1,3-Dichloropropene | 50 | 48 | 52 | 53 | 51 | 51 | 102 | | 1.9 | 4 | 20.5 |
| 1,1,2-Trichloroethane | 50 | 49 | 51 | 52 | 50 | 51 | 101 | | 1.4 | 3 | 20.5 |
| Tetrachloroethene | 50 | 51 | 53 | 56 | 52 | 53 | 106 | | 2.1 | 4 | 20.5 |



CompuChem

A Division Of

Liberty Analytical Corp.

3/26/2009

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 0903084

Attn.: JANET FRAZIER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

CompuChem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

CompuChem, a division of Liberty Analytical

Client: DRAPER

Work: 0903084

Project: WATAUGA COUNTY LANDFILL 6520-39

Sdg: 0903084

| Lab ID | Client ID | Matrix | Date Sampled | Date Received |
|------------|------------|--------|------------------|------------------|
| 0903084-01 | MW-3 | Water | 03/12/2009 13:20 | 03/13/2009 09:45 |
| 0903084-02 | MW-2 | Water | 03/12/2009 12:15 | 03/13/2009 09:45 |
| 0903084-03 | MW-8 | Water | 03/12/2009 12:40 | 03/13/2009 09:45 |
| 0903084-04 | MW-9 | Water | 03/12/2009 11:40 | 03/13/2009 09:45 |
| 0903084-05 | MW-12 | Water | 03/12/2009 13:45 | 03/13/2009 09:45 |
| 0903084-06 | MW-17 | Water | 03/12/2009 13:05 | 03/13/2009 09:45 |
| 0903084-07 | TRIP BLANK | Water | 03/12/2009 13:05 | 03/13/2009 09:45 |

I. SAMPLE DATA PACKAGE

DOCUMENT ILM04.1

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

- A. Cover Page
- B. SDG Narrative
- C. Sample Data
- D. Sample Traffic Reports/SDG Cover Sheet

LAB CODE : LIBRTY

CONTRACT # : ILM04.1

CASE # : _____

SDG # : 0903084

A. Cover Page - Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, SAS number (if appropriate) the EPA ID numbers in alphanumeric order showing the EPA ID numbers cross-referenced with Lab ID numbers, comments, and completion of the statement on the use of ICP background and interelement correction for the samples.

US EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

SOW No.: ILM04.1

| <u>EPA Sample No.</u> | <u>Lab Sample ID.</u> |
|-----------------------|-----------------------|
| <u>MW-12</u> | <u>0903084-05</u> |
| <u>MW-17</u> | <u>0903084-06</u> |
| <u>MW-2</u> | <u>0903084-02</u> |
| <u>MW-3</u> | <u>0903084-01</u> |
| <u>MW-3D</u> | <u>9031330-DUP1</u> |
| <u>MW-3S</u> | <u>9031330-MS1</u> |
| <u>MW-8</u> | <u>0903084-03</u> |
| <u>MW-9</u> | <u>0903084-04</u> |

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

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 data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 2. Forster for Susan Bass Name: Susan W Bass

Date: 3-24-09 Title: Senior Chemist

B. SDG Narrative

The SDG Narrative contains laboratory information, the Case and SDG numbers and detailed documentation of any QC, sample, shipment, and/or analytical problems encountered in processing the samples. This will include any technical and administrative problems encountered and the resolution or corrective actions taken. The SDG Narrative will also document the alternative means of determining the cooler temperature when a cooler's temperature indicator bottle is absent. The SDG Narrative also provides equations or curves and utilizes raw data from the SDG being reported to demonstrate how sample results are obtained from raw instrument output. Finally, the SDG Narrative will identify and explain any differences between results being provided in the data package and those provided previously as Preliminary Results, if applicable.

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501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE

SDG # 0903084

The indicated Sample Delivery Group (SDG) consisting of six (6) water samples were received into the laboratory information management system (LIMS) on March 13, 2009 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 0.8°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were prepared and analyzed in accordance with ILM04.1 methodology for the requested metals barium, chromium, cobalt, iron, nickel, and vanadium.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verification (PBW & LCSW) was found to be within acceptable ranges and the field samples were prepared and analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spikes, CCN = 0903133-01 ID MW-3S was inside control limits for the requested analytes.

Control limits for matrix spikes recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

The sample matrix duplicate, CCN = 0903133-01 ID MW-3D was inside control limits for the requested analytes.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 0903133-01 ID MW-3L was performed in accordance with requirements for ICP analysis.

The adjusted sample concentrations were inside control limits for the requested analytes.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.


Susan W. Bass
Senior Chemist
March 24, 2009



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DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

- U:** This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.
- B:** This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

The Q qualifiers used are:

- E:** This flag indicates an estimated value. This flag is used:
 - 1.** When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
- N:** This flag indicates the sample spike recovery is outside of control limits:
- *:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L, A, added to the end of the client ID represent as follows:

- D:** matrix duplicate
- S:** matrix spike
- SD:** matrix spike duplicate
- L:** serial dilution
- A:** post digestion spike

Method Codes:

- P:** ICP PLASMA
- CV:** MERCURY COLD VAPOR AA
- CA:** MIDI-DISTILLATION SPECTROPHOTOMETRIC
- MS:** MASS SPECTROMETRY
- AS:** SEMI-AUTOMATED SPECTROPHOTOMETRIC

C. Sample Data

1. Results
2. Quality Control Data
3. Quarterly Verification of Instrument Performance
4. Raw Data
5. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : ILM04.1

CASE # : _____

SDG # : 0903084

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet (Form I - IN). These sample packets shall be placed in increasing EPA Sample ID number order, considering both letters and numbers, and shall include all the samples in the SDG.

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-05
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 326 | | | P |
| 7440-47-3 | Chromium | 0.80 | B | | P |
| 7440-48-4 | Cobalt | 1.7 | B | | P |
| 7439-89-6 | Iron | 24.6 | U | | P |
| 7440-02-0 | Nickel | 4.0 | B | | P |
| 7440-62-2 | Vanadium | 0.89 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

US EPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-06
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 510 | | | P |
| 7440-47-3 | Chromium | 2.3 | B | | P |
| 7440-48-4 | Cobalt | 4.9 | B | | P |
| 7439-89-6 | Iron | 948 | | | P |
| 7440-02-0 | Nickel | 3.6 | B | | P |
| 7440-62-2 | Vanadium | 2.1 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

US EPA - CLP
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-02
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 224 | | | P |
| 7440-47-3 | Chromium | 2.6 | B | | P |
| 7440-48-4 | Cobalt | 1.6 | U | | P |
| 7439-89-6 | Iron | 440 | | | P |
| 7440-02-0 | Nickel | 3.5 | B | | P |
| 7440-62-2 | Vanadium | 2.1 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

US EPA - CLP
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Contract: _____
Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
Matrix (soil/water): WATER Lab Sample ID: 0903084-01
Level (low/med): LOW Date Received: 3/13/2009
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 168 | B | | P |
| 7440-47-3 | Chromium | 42.6 | | | P |
| 7440-48-4 | Cobalt | 4.1 | B | | P |
| 7439-89-6 | Iron | 6850 | | | P |
| 7440-02-0 | Nickel | 25.8 | B | | P |
| 7440-62-2 | Vanadium | 14.6 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

US EPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Matrix (soil/water): WATER Lab Sample ID: 0903084-03
 Level (low/med): LOW Date Received: 3/13/2009
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 113 | B | | P |
| 7440-47-3 | Chromium | 13.1 | | | P |
| 7440-48-4 | Cobalt | 3.6 | B | | P |
| 7439-89-6 | Iron | 5490 | | | P |
| 7440-02-0 | Nickel | 7.3 | B | | P |
| 7440-62-2 | Vanadium | 13.3 | B | | P |

Color Before: BROWN Clarity Before: CLEAR Texture: _____
 Color After: BROWN Clarity After: CLEAR Artifacts: _____

Comments: _____

US EPA - CLP
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: COMPUCHEM Contract: _____
Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
Matrix (soil/water): WATER Lab Sample ID: 0903084-04
Level (low/med): LOW Date Received: 3/13/2009
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|----------|---------------|---|---|---|
| 7440-39-3 | Barium | 594 | | | P |
| 7440-47-3 | Chromium | 0.88 | B | | P |
| 7440-48-4 | Cobalt | 8.3 | B | | P |
| 7439-89-6 | Iron | 144 | | | P |
| 7440-02-0 | Nickel | 2.3 | B | | P |
| 7440-62-2 | Vanadium | 0.64 | B | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

2. Quality Control Data

- a. Initial and Continuing Calibration Verification
[Form II (Part 1) - IN]
- b. CRDL Standard for AA (if applicable) and ICP
[Form II (Part 2) - IN]
- c. Blanks
[Form III - IN]
- d. ICP Interference Check Sample
[Form IV - IN]
- e. Spike Sample Recovery
[Form V (Part 1) - IN]
- f. Post Digest Spike Sample Recovery
[Form V (Part 2) - IN]
- g. Duplicates
[Form VI - IN]
- h. Laboratory Control Sample
[Form VII - IN]
- i. Standard Addition Results (if applicable)
[Form VIII - IN]
- j. ICP Serial Dilutions
[Form IX - IN]
- k. Preparation Log
[Form XIII - IN]
- l. Analysis Run Log
[Form XIV - IN]

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP092208QF

Concentration Units: ug/L

| Analyte | Initial Calibration | | | Continuing Calibration | | | | | M |
|----------|---------------------|---------|-------|------------------------|----------|-------|----------|-------|---|
| | True | Found | %R(1) | True | Found | %R(1) | Found | %R(1) | |
| Barium | 497.0 | 507.35 | 102.1 | 1000.0 | 998.68 | 99.9 | 1033.51 | 103.4 | P |
| Chromium | 490.0 | 495.16 | 101.1 | 1000.0 | 1003.10 | 100.3 | 1028.51 | 102.9 | P |
| Cobalt | 499.0 | 495.25 | 99.2 | 1000.0 | 987.05 | 98.7 | 1011.16 | 101.1 | P |
| Iron | 5082.0 | 4944.68 | 97.3 | 25000.0 | 24687.15 | 98.7 | 25412.32 | 101.6 | P |
| Nickel | 503.0 | 504.87 | 100.4 | 1000.0 | 998.95 | 99.9 | 1031.03 | 103.1 | P |
| Vanadium | 501.0 | 492.00 | 98.2 | 1000.0 | 988.35 | 98.8 | 1016.90 | 101.7 | P |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP092208QF

Concentration Units: ug/L

| Analyte | Initial Calibration | | | Continuing Calibration | | | | | M |
|----------|---------------------|-------|-------|------------------------|----------|-------|----------|-------|---|
| | True | Found | %R(1) | True | Found | %R(1) | Found | %R(1) | |
| Barium | | | | 1000.0 | 987.90 | 98.8 | 993.52 | 99.4 | P |
| Chromium | | | | 1000.0 | 1004.83 | 100.5 | 1003.93 | 100.4 | P |
| Cobalt | | | | 1000.0 | 989.51 | 99.0 | 990.63 | 99.1 | P |
| Iron | | | | 25000.0 | 24752.63 | 99.0 | 24851.90 | 99.4 | P |
| Nickel | | | | 1000.0 | 1008.93 | 100.9 | 1013.46 | 101.3 | P |
| Vanadium | | | | 1000.0 | 983.49 | 98.3 | 984.02 | 98.4 | P |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP092208QF

Concentration Units: ug/L

| Analyte | Initial Calibration | | | Continuing Calibration | | | | | M |
|----------|---------------------|-------|-------|------------------------|----------|-------|----------|-------|---|
| | True | Found | %R(1) | True | Found | %R(1) | Found | %R(1) | |
| Barium | | | | 1000.0 | 994.38 | 99.4 | 1000.81 | 100.1 | P |
| Chromium | | | | 1000.0 | 1003.95 | 100.4 | 1014.27 | 101.4 | P |
| Cobalt | | | | 1000.0 | 995.86 | 99.6 | 998.59 | 99.9 | P |
| Iron | | | | 25000.0 | 24962.54 | 99.9 | 25151.72 | 100.6 | P |
| Nickel | | | | 1000.0 | 1023.34 | 102.3 | 1025.20 | 102.5 | P |
| Vanadium | | | | 1000.0 | 990.17 | 99.0 | 989.43 | 98.9 | P |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

AA CRDL Standard Source: _____

ICP CRDL Standard Source: HP-0826013

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|----------|------|-------|----|-----------------------|--------|-------|-------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Chromium | | | | 20.0 | 20.87 | 104.4 | 20.24 | 101.2 |
| Cobalt | | | | 100.0 | 100.60 | 100.6 | 99.18 | 99.2 |
| Nickel | | | | 80.0 | 85.61 | 107.0 | 84.01 | 105.0 |
| Vanadium | | | | 100.0 | 100.12 | 100.1 | 97.79 | 97.8 |

Control Limits: no limits have been established by EPA at this time

US EPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

AA CRDL Standard Source: _____

ICP CRDL Standard Source: HP-0826013

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|----------|------|-------|----|-----------------------|-------|----|--------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Chromium | | | | 20.0 | | | 20.92 | 104.6 |
| Cobalt | | | | 100.0 | | | 102.23 | 102.2 |
| Nickel | | | | 80.0 | | | 85.84 | 107.3 |
| Vanadium | | | | 100.0 | | | 100.11 | 100.1 |

Control Limits: no limits have been established by EPA at this time

US EPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

AA CRDL Standard Source: _____

ICP CRDL Standard Source: HP-0826013

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|----------|------|-------|----|-----------------------|-------|-------|--------|-------|
| | | | | Initial | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Chromium | | | | 20.0 | | | 21.07 | 105.4 |
| Cobalt | | | | 100.0 | | | 101.99 | 102.0 |
| Nickel | | | | 80.0 | | | 85.02 | 106.3 |
| Vanadium | | | | 100.0 | | | 99.69 | 99.7 |

Control Limits: no limits have been established by EPA at this time

US EPA - CLP

3

BLANKS

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | M |
|----------|-----------------------------|-------------------------------------|--------|--------|--------|--------|----------|-------------------|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| Barium | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.3 U | 0.300 U | P | |
| Chromium | 0.7 U | 1.0 B | 0.8 B | 0.8 B | 0.8 B | 0.8 B | 0.795 B | P | |
| Cobalt | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.600 U | P | |
| Iron | 24.6 U | 25.1 B | 24.6 U | 24.6 U | 24.6 U | 24.6 U | 49.465 B | P | |
| Nickel | 0.7 U | 0.9 B | 0.7 U | 0.7 U | 0.7 U | 0.7 U | 0.753 B | P | |
| Vanadium | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.570 U | P | |

US EPA - CLP

3

BLANKS

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|----------|-----------------------------|-------------------------------------|---|------|---|------|---|-------------------|--|---|
| | | 1 | C | 2 | C | 3 | C | C | | |
| Barium | | 0.3 | U | 0.3 | U | 0.3 | U | | | P |
| Chromium | | 0.9 | B | 0.7 | U | 0.7 | B | | | P |
| Cobalt | | 1.6 | U | 1.6 | U | 1.6 | U | | | P |
| Iron | | 24.6 | U | 24.6 | U | 24.6 | U | | | P |
| Nickel | | 0.7 | U | 0.7 | U | 0.7 | U | | | P |
| Vanadium | | 0.6 | U | 0.6 | U | 0.6 | U | | | P |

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

| Analyte | True | | Initial Found | | | Final Found | | |
|----------|-------|--------|---------------|--------|-------|-------------|--------|-------|
| | Sol.A | Sol.AB | Sol.A | Sol.AB | %R | Sol.A | Sol.AB | %R |
| Barium | 2 | 495 | 2.5 | 513 | 103.6 | 2.5 | 500 | 101.0 |
| Chromium | 43 | 511 | 44.8 | 532 | 104.1 | 44.7 | 523 | 102.3 |
| Cobalt | 4 | 461 | 8.6 | 489 | 106.1 | 8.8 | 485 | 105.2 |
| Iron | 95600 | 94800 | 96900 | 97800 | 103.2 | 96800 | 95900 | 101.2 |
| Nickel | 21 | 984 | 23.0 | 1010 | 102.6 | 23.3 | 1000 | 101.6 |
| Vanadium | 0 | 494 | 0.77 | 496 | 100.4 | 1.0 | 479 | 97.0 |

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

| Analyte | True | | Initial Found | | | Final Found | | |
|----------|-------|--------|---------------|--------|----|-------------|--------|-------|
| | Sol.A | Sol.AB | Sol.A | Sol.AB | %R | Sol.A | Sol.AB | %R |
| Barium | 2 | 495 | | | | 2.6 | 504 | 101.8 |
| Chromium | 43 | 511 | | | | 44.5 | 529 | 103.5 |
| Cobalt | 4 | 461 | | | | 9.0 | 492 | 106.7 |
| Iron | 95600 | 94800 | | | | 97400 | 97100 | 102.4 |
| Nickel | 21 | 984 | | | | 22.9 | 1020 | 103.7 |
| Vanadium | 0 | 494 | | | | 0.93 | 483 | 97.8 |

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

| Analyte | True | | Initial Found | | | Final Found | | |
|----------|-------|--------|---------------|--------|----|-------------|--------|-------|
| | Sol.A | Sol.AB | Sol.A | Sol.AB | %R | Sol.A | Sol.AB | %R |
| Barium | 2 | 495 | | | | 2.5 | 508 | 102.6 |
| Chromium | 43 | 511 | | | | 45.0 | 539 | 105.5 |
| Cobalt | 4 | 461 | | | | 9.2 | 503 | 109.1 |
| Iron | 95600 | 94800 | | | | 97300 | 98300 | 103.7 |
| Nickel | 21 | 984 | | | | 22.4 | 1040 | 105.7 |
| Vanadium | 0 | 494 | | | | 1.4 | 494 | 100.0 |

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5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-3S

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R | Q | M |
|----------|------------------|------------------------------|----------------------|------------------|-------|---|---|
| Barium | 75 - 125 | 2168.7320 | 167.7574 B | 2000.00 | 100.0 | | P |
| Chromium | 75 - 125 | 245.0556 | 42.6273 | 200.00 | 101.2 | | P |
| Cobalt | 75 - 125 | 511.0748 | 4.0662 B | 500.00 | 101.4 | | P |
| Iron | | 7584.3890 | 6853.3250 | 1000.00 | 73.1 | | P |
| Nickel | 75 - 125 | 537.5148 | 25.8032 B | 500.00 | 102.3 | | P |
| Vanadium | 75 - 125 | 508.4388 | 14.5764 B | 500.00 | 98.8 | | P |

Comments:

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6

DUPLICATES

SAMPLE NO.

MW-3D

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | | Duplicate (D) | | RPD | Q | M |
|----------|---------------|------------|---|---------------|---|------|---|---|
| | | | C | | C | | | |
| Barium | | 167.7574 | B | 168.3765 | B | 0.4 | | P |
| Chromium | 10.0 | 42.6273 | | 41.6632 | | 2.3 | | P |
| Cobalt | | 4.0662 | B | 3.4821 | B | 15.5 | | P |
| Iron | | 6853.3250 | | 6535.9281 | | 4.7 | | P |
| Nickel | | 25.8032 | B | 24.2747 | B | 6.1 | | P |
| Vanadium | | 14.5764 | B | 13.6458 | B | 6.6 | | P |

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7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Solid LCS Source: _____

Aqueous LCS Source: HP-0823903

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|----------|----------------|---------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Barium | 502.0 | 518.42 | 103.3 | | | | | |
| Chromium | 490.0 | 518.06 | 105.7 | | | | | |
| Cobalt | 496.0 | 521.91 | 105.2 | | | | | |
| Iron | 5107.0 | 5175.01 | 101.3 | | | | | |
| Nickel | 492.0 | 531.58 | 108.0 | | | | | |
| Vanadium | 501.0 | 510.65 | 101.9 | | | | | |

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9

ICP SERIAL DILUTIONS

SAMPLE NO.

| |
|-------|
| MW-3L |
|-------|

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY Case No.: _____

SAS No.: _____ SDG No.: 0903084

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Barium | 167.76 | B | 171.32 | B | 2.1 | | P |
| Chromium | 42.63 | | 46.17 | B | 8.3 | | P |
| Cobalt | 4.07 | B | 8.00 | U | 100.0 | | P |
| Iron | 6853.33 | | 7116.66 | | 3.8 | | P |
| Nickel | 25.80 | B | 26.61 | B | 3.1 | | P |
| Vanadium | 14.58 | B | 16.21 | B | 11.2 | | P |

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PREPARATION LOG

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

Method: P

| EPA Sample No. | Preparation Date | | Volume (mL) |
|-------------------|---------------------|--|----------------|
| LCSW | 3/16/2009 | | 50.0 |
| MW-12 | 3/16/2009 | | 50.0 |
| MW-17 | 3/16/2009 | | 50.0 |
| MW-2 | 3/16/2009 | | 50.0 |
| MW-3 | 3/16/2009 | | 50.0 |
| MW-3D | 3/16/2009 | | 50.0 |
| MW-3S | 3/16/2009 | | 50.0 |
| MW-8 | 3/16/2009 | | 50.0 |
| MW-9 | 3/16/2009 | | 50.0 |
| PBW | 3/16/2009 | | 50.0 |

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14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBERTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Instrument ID Number: P4 Method: P
 Start Date: 3/23/2009 End Date: 3/23/2009

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T V | Z N | C N | | | | | |
| S0 | 1.00 | 1123 | | | | X | | | | X | X | X | | | | | X | | | | | | | | | | X | | | | |
| S | 1.00 | 1130 | | | | | | | | X | | | | | | | X | | | | | | | | | | | | | | |
| S | 1.00 | 1137 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 1142 | | | | X | | | | | X | X | | | | | | | | | | | | | | | X | | | | |
| S | 1.00 | 1148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICV | 1.00 | 1153 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| ICB | 1.00 | 1159 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| CRI | 1.00 | 1206 | | | | | | | | | X | X | | | | | X | | | | | | | | | | X | | | | |
| ICSA | 1.00 | 1213 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| ICSAB | 1.00 | 1219 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| CCV | 1.00 | 1226 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| CCB | 1.00 | 1233 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| ZZZZZZ | 1.00 | 1249 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1256 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1302 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1311 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1318 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1332 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1339 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1345 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1352 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1359 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| CCB | 1.00 | 1406 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| ZZZZZZ | 1.00 | 1413 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1434 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1441 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1448 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1455 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRI | 1.00 | 1502 | | | | | | | | | X | X | | | | | X | | | | | | | | | | X | | | | |
| ICSA | 1.00 | 1509 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| ICSAB | 1.00 | 1516 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| CCV | 1.00 | 1523 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| CCB | 1.00 | 1530 | | | | X | | | | | X | X | X | | | | X | | | | | | | | | | X | | | | |
| ZZZZZZ | 1.00 | 1537 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1543 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 Instrument ID Number: P4 Method: P
 Start Date: 3/23/2009 End Date: 3/23/2009

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| ZZZZZZ | 1.00 | 1550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRI | 1.00 | 1558 | | | | | | | | X | X | | | | | | | X | | | | | | | | | X | | | | |
| ICSA | 1.00 | 1605 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| ICSAB | 1.00 | 1612 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| CCV | 1.00 | 1619 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| CCB | 1.00 | 1626 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| PBW | 1.00 | 1639 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| LCSW | 1.00 | 1646 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-3 | 1.00 | 1653 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-3D | 1.00 | 1700 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-3S | 1.00 | 1707 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-3L | 5.00 | 1714 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-3A | 1.00 | 1721 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-2 | 1.00 | 1728 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-8 | 1.00 | 1735 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| CCV | 1.00 | 1742 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| CCB | 1.00 | 1749 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-9 | 1.00 | 1756 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-12 | 1.00 | 1805 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| MW-17 | 1.00 | 1812 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| CRI | 1.00 | 1819 | | | | | | | | X | X | | | | | | | X | | | | | | | | X | | | | | |
| ICSA | 1.00 | 1826 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| ICSAB | 1.00 | 1833 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| CCV | 1.00 | 1839 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |
| CCB | 1.00 | 1846 | | | X | | | | | X | X | X | | | | | | X | | | | | | | | X | | | | | |

3. Quarterly Verification of Instrument Performance

- a. Instrument Detection Limits (Quarterly)
[Form X - IN]
- b. ICP Interelement Correction Factors (Annually)
[Form XI (Part 1) - IN]
- c. ICP Interelement Correction Factors (Annually)
[Form XI (Part 2) - IN]
- d. ICP Linear Ranges (Quarterly)
[Form XII - IN]

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____
Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
ICP ID Number: P4 Date: 1/15/2009
Flame AA ID Number: _____
Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRQL (ug/L) | IDL (ug/L) | M |
|----------|------------------|-------------|-------------|------------|---|
| Barium | 493.41 | | 200 | 0.3 | P |
| Chromium | 267.72 | | 10 | 0.7 | P |
| Cobalt | 228.62 | | 50 | 1.6 | P |
| Iron | 271.44 | | 100 | 24.6 | P |
| Nickel | 231.60 | | 40 | 0.7 | P |
| Vanadium | 292.40 | | 50 | 0.6 | P |

Comments: _____

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 ICP ID Number: P4 Date: 1/15/2009

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|-----------|------------------|--------------------------------------|-----------|------------|-----------|------------|
| | | Al | Ca | Fe | Mg | As |
| Aluminum | 308.21 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0053630 |
| Antimony | 206.84 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.41 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000510 | 0.0000000 | 0.0001430 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | 0.0000500 | 0.0000000 | 0.0000000 |
| Copper | 324.70 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0011280 | 0.0000000 |
| Lead | 220.35 | 0.0002290 | 0.0000000 | 0.0001240 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | -0.0001750 | 0.0000000 | 0.0000590 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.02 | 0.0000000 | 0.0000000 | 0.0000570 | 0.0000000 | 0.0000000 |
| Selenium | 196.02 | 0.0000000 | 0.0000000 | -0.0004070 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0006990 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | -0.0003250 | 0.0000000 | 0.0000000 |
| Zinc | 206.20 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 ICP ID Number: P4 Date: 1/15/2009

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|-----------|------------------|--------------------------------------|------------|------------|-----------|------------|
| | | Ba | Cd | Co | Cr | Cu |
| Aluminum | 308.21 | -0.0012120 | 0.0000000 | -0.0048870 | 0.0025880 | -0.0026620 |
| Antimony | 206.84 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0032180 | 0.0000000 |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0026950 | 0.0000000 |
| Barium | 493.41 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | -0.0003510 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.70 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0763510 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0002740 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0001040 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | -0.0007980 | 0.0000000 | 0.0000000 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.02 | 0.0000000 | 0.0000000 | 0.0004550 | 0.0000000 | 0.0000000 |
| Selenium | 196.02 | 0.0000000 | 0.0000000 | -0.0006900 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | -0.0008010 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0012210 | 0.0000000 |
| Zinc | 206.20 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0008810 | 0.0000000 |

Comments: _____

US EPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____
 Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084
 ICP ID Number: P4 Date: 1/15/2009

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|-----------|------------------|--------------------------------------|------------|------------|-----------|----------|
| | | Mn | Mo | Na | Ni | Sb |
| Aluminum | 308.21 | 0.000000 | 0.000000 | -0.0001130 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.0000600 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.62 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.70 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.35 | 0.000000 | -0.0010440 | 0.000000 | 0.0002230 | 0.000000 |
| Lead | 220.35 | 0.000000 | -0.0010650 | 0.000000 | 0.0001240 | 0.000000 |
| Magnesium | 279.08 | -0.0103610 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.02 | 0.0004250 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.02 | 0.0008000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.86 | -0.0005880 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 206.20 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

US EPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

ICP ID Number: P4 Date: 1/15/2009

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|-----------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Sn | Ti | Tl | V | Zn |
| Aluminum | 308.21 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | -0.0039860 | 0.0000000 | 0.0000000 | 0.0023750 | 0.0000000 |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.41 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 313.04 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0030650 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0003100 | 0.0000000 |
| Cobalt | 228.62 | 0.0000000 | 0.0019890 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.70 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0003070 | 0.0000000 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0177090 | 0.0000000 |
| Lead | 220.35 | 0.0000000 | 0.0003980 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.35 | 0.0000000 | -0.0008210 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002070 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.02 | 0.0000000 | 0.0000000 | 0.0001010 | 0.0000000 | 0.0000000 |
| Selenium | 196.02 | 0.0000000 | 0.0000000 | 0.0001200 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | -0.1214210 | 0.0000000 | 0.0000000 | 0.0527300 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0008340 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 206.20 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

US EPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0903084

ICP ID Number: P4 Date: 1/22/2009

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|----------|--------------------|----------------------|---|
| Barium | 15.00 | 50000.0 | P |
| Chromium | 15.00 | 40000.0 | P |
| Cobalt | 15.00 | 40000.0 | P |
| Iron | 15.00 | 600000.0 | P |
| Nickel | 15.00 | 50000.0 | P |
| Vanadium | 15.00 | 20000.0 | P |

Comments: _____

4. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the Quarterly Verification of Instrument Parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP, Flame AA (if used), Furnace AA (if used), mercury, and cyanide (if a target analyte).

Raw data shall be labeled using EPA sample number convention in order to identify:

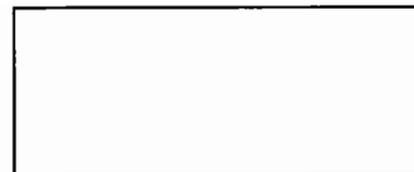
- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, ICP serial dilution samples, CRDL standard for ICP and AA (if used), Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by EPA ID number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes
- instrument used, including all data voided or data not used and a brief written explanation
- all information for furnace analysis (if used)
- date and time of each analysis (instrument run logs can be submitted if they contain this information)
- integration time for AA analyses (if used)

Daily Instrument Profile

Nebulizer pressure: 30
 Peak position: -0.075191
 Peak intensity: 963
 Vernier position: 444

Maintenance: _____

NONE



Printed: 3/18/2009

Method(s) (circle one): ILM04.1 ILM05.4 6010B 200.7 _____

Operator(s): JCF/EAM Date/Time 032309/1123 to 032309/2338

| | |
|-------|--|
| ↑ | Specified element(s) fail(s) high |
| ↓ | Specified element(s) fail(s) low |
| RR | Re-run sample(s) neat |
| RR #X | Re-run at a #-fold dilution |
| #X | Sample run at a #-fold dilution (aliquot of sample diluted with acidified water) |
| L | Matrix = leachate |
| W | Matrix = water |
| S | Matrix = solid |
| B | Matrix = biological tissue |

| SDG | Matrix | Comments |
|---------|--------|--------------------------------|
| 0903067 | W | TAL complete |
| 0903084 | W | TAL EAM3-24-09 CUSTOM complete |
| 0903117 | W | TAL minus TI RR |
| 0903121 | W | TAL minus TI L |

ICP Run Log (P4)

File Name: P40323C

| Sample ID | Client Id | Sample Type | Dilut | Date | Time | SDG | Action Needed |
|-------------|-----------|-------------|-------|----------|----------|---------|---------------|
| S0 BLANK | S0 BLANK | CALIB STD | 1 | 03/23/09 | 11:23:44 | | |
| S RSTD-1 | S RSTD-1 | CALIB STD | 1 | 03/23/09 | 11:30:24 | | |
| S RSTD-3 | S RSTD-3 | CALIB STD | 1 | 03/23/09 | 11:37:05 | | |
| S RSTD-2 | S RSTD-2 | CALIB STD | 1 | 03/23/09 | 11:42:12 | | |
| S RSTD-4 | S RSTD-4 | CALIB STD | 1 | 03/23/09 | 11:48:06 | | |
| ICV1 | ICV1 | ICV | 1 | 03/23/09 | 11:53:14 | | |
| ICB | ICB | ICB | 1 | 03/23/09 | 11:59:54 | | |
| CRI - \ | CRI | CRI | 1 | 03/23/09 | 12:06:34 | | |
| ICSA - \ | ICSA | ICS | 1 | 03/23/09 | 12:13:13 | | |
| ICSAB - \ | ICSAB | ICS | 1 | 03/23/09 | 12:19:53 | | |
| CCV - \ | CCV | CCV | 1 | 03/23/09 | 12:26:33 | | |
| CCB - \ | CCB | CCB | 1 | 03/23/09 | 12:33:14 | | |
| LRS | LRS | MS | 1 | 03/23/09 | 12:49:05 | | |
| ZZZZZZ | PBW | PBW | 1 | 03/23/09 | 12:56:01 | 0903067 | |
| 9031305-BS1 | LCSW | LCS | 1 | 03/23/09 | 13:02:58 | 0903067 | |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: TAL

Date: 3/24/09

ICP Run Log (P4)

File Name: P40323C

| Sample ID | Client Id | Sample Type | Dilut | Date | Time | SDG | Action Needed |
|-------------------|-----------|-------------|-------|----------|----------|---------|---------------|
| 0903067-01 | 2IC52M | SAMPLE | 1 | 03/23/09 | 13:11:17 | 0903067 | K↑ Na↑ |
| 9031304-DUP1 | 2IC52MD | DUP | 1 | 03/23/09 | 13:18:13 | 0903067 | \| |
| 9031304-MS1 | 2IC52MS | MS | 1 | 03/23/09 | 13:25:09 | 0903067 | \| |
| SDI0903067-01 5X | 2IC52ML | SDL | 5 | 03/23/09 | 13:32:05 | 0903067 | |
| SDI0903067-01 15X | 2IC52ML | SDL | 15 | 03/23/09 | 13:39:01 | 0903067 | |
| PDS0903067-01 | 2IC52MA | SAMPLE | 1 | 03/23/09 | 13:45:57 | 0903067 | K↑ Na↑ |
| 0903067-01 3X | 2IC52M | SAMPLE | 3 | 03/23/09 | 13:52:53 | 0903067 | |
| CCV-2 | CCV | CCV | 1 | 03/23/09 | 13:59:50 | | |
| CCB-2 | CCB | CCB | 1 | 03/23/09 | 14:06:47 | | |
| 9031304-DUP1 3X | 2IC52MD | DUP | 3 | 03/23/09 | 14:13:44 | 0903067 | |
| 0903067-02 | 1IC48 | SAMPLE | 1 | 03/23/09 | 14:20:40 | 0903067 | |
| 0903067-02 3X | 1IC48 | SAMPLE | 3 | 03/23/09 | 14:27:36 | 0903067 | |
| 0903067-03 | 1EAM146 | SAMPLE | 1 | 03/23/09 | 14:34:33 | 0903067 | |
| 0903067-03 3X | 1EAM146 | SAMPLE | 3 | 03/23/09 | 14:41:29 | 0903067 | |
| 0903067-04 | 1EAM146D | DUP | 1 | 03/23/09 | 14:48:26 | 0903067 | |
| 0903067-04 3X | 1EAM146D | DUP | 3 | 03/23/09 | 14:55:23 | 0903067 | |
| CRI-2 | CRI | CRI | 1 | 03/23/09 | 15:02:19 | | |
| ICSA-2 | ICSA | ICS | 1 | 03/23/09 | 15:09:15 | | |
| ICSAB-2 | ICSAB | ICS | 1 | 03/23/09 | 15:16:11 | | |
| CCV-3 | CCV | CCV | 1 | 03/23/09 | 15:23:08 | | |
| CCB-3 | CCB | CCB | 1 | 03/23/09 | 15:30:06 | | |
| 0903067-05 | 2EAM147 | SAMPLE | 1 | 03/23/09 | 15:37:03 | 0903067 | K↑ Na↑ |
| 0903067-05 3X | 2EAM147 | SAMPLE | 3 | 03/23/09 | 15:43:59 | 0903067 | |
| 9031304-BLK1 | PBW | PBW | 1 | 03/23/09 | 15:50:55 | 0903067 | |
| CRI-3 | CRI | CRI | 1 | 03/23/09 | 15:58:53 | | |
| ICSA-3 | ICSA | ICS | 1 | 03/23/09 | 16:05:49 | | |
| ICSAB-3 | ICSAB | ICS | 1 | 03/23/09 | 16:12:46 | | |
| CCV-4 | CCV | CCV | 1 | 03/23/09 | 16:19:43 | | |
| CCB-4 | CCB | CCB | 1 | 03/23/09 | 16:26:40 | | |
| 9031330-BLK1 | PBW | PBW | 1 | 03/23/09 | 16:39:16 | 0903084 | |
| 9031330-BS1 | LCSW | LCS | 1 | 03/23/09 | 16:46:44 | 0903084 | |
| 0903084-01 | MW-3 | SAMPLE | 1 | 03/23/09 | 16:53:40 | 0903084 | |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: TALDate: 3/24/09

Page 2 of 4

ICP Run Log (P4)

File Name: P40323C

| Sample ID | Client Id | Sample Type | Dilut | Date | Time | SDG | Action Needed |
|---------------|-----------|-------------|-------|----------|----------|---------|---------------|
| 9031330-DUP1 | MW-3D | DUP | 1 | 03/23/09 | 17:00:36 | 0903084 | |
| 9031330-MS1 | MW-3S | MS | 1 | 03/23/09 | 17:07:32 | 0903084 | |
| SDI0903084-01 | MW-3L | SDL | 1 | 03/23/09 | 17:14:28 | 0903084 | |
| PDS0903084-01 | MW-3A | SAMPLE | 1 | 03/23/09 | 17:21:24 | 0903084 | |
| 0903084-02 | MW-2 | SAMPLE | 1 | 03/23/09 | 17:28:20 | 0903084 | |
| 0903084-03 | MW-8 | SAMPLE | 1 | 03/23/09 | 17:35:16 | 0903084 | |
| CCV -5 | CCV | CCV | 1 | 03/23/09 | 17:42:13 | | |
| CCB -5 | CCB | CCB | 1 | 03/23/09 | 17:49:11 | | |
| 0903084-04 | MW-9 | SAMPLE | 1 | 03/23/09 | 17:56:07 | 0903084 | |
| 0903084-05 | MW-12 | SAMPLE | 1 | 03/23/09 | 18:05:16 | 0903084 | |
| 0903084-06 | MW-17 | SAMPLE | 1 | 03/23/09 | 18:12:12 | 0903084 | |
| CRI -4 | CRI | CRI | 1 | 03/23/09 | 18:19:08 | | |
| ICSA -4 | ICSA | ICS | 1 | 03/23/09 | 18:26:04 | | |
| ICSAB -4 | ICSAB | ICS | 1 | 03/23/09 | 18:33:01 | | |
| CCV -6 | CCV | CCV | 1 | 03/23/09 | 18:39:58 | | |
| CCB -6 | CCB | CCB | 1 | 03/23/09 | 18:46:55 | | |
| 9032028-BLK1 | PBW | PBW | 1 | 03/23/09 | 18:53:52 | 0903121 | P6↑ RR |
| 9032028-BS1 | LCSW | LCS | 1 | 03/23/09 | 19:00:49 | 0903121 | |
| 0903121-01 | BC-17 | SAMPLE | 1 | 03/23/09 | 19:07:46 | 0903121 | |
| 9032028-DUP1 | BC-17D | DUP | 1 | 03/23/09 | 19:14:42 | 0903121 | |
| 9032028-MS1 | BC-17S | MS | 1 | 03/23/09 | 19:21:39 | 0903121 | |
| 9032028-MSD1 | BC-17SD | MSD | 1 | 03/23/09 | 19:28:35 | 0903121 | |
| SDI0903121-01 | BC-17L | SDL | 5 | 03/23/09 | 19:35:31 | 0903121 | |
| PDS0903121-01 | BC-17A | SAMPLE | 1 | 03/23/09 | 19:42:27 | 0903121 | |
| 0903121-02 | BC-17 DUP | SAMPLE | 1 | 03/23/09 | 19:49:23 | 0903121 | |
| 0903121-03 | IC-12 | SAMPLE | 1 | 03/23/09 | 19:56:19 | 0903121 | |
| CCV -7 | CCV | CCV | 1 | 03/23/09 | 20:03:16 | | |
| CCB -7 | CCB | CCB | 1 | 03/23/09 | 20:10:14 | | |
| 0903121-04 | IC-11 | SAMPLE | 1 | 03/23/09 | 20:17:10 | 0903121 | RR |
| 0903121-05 | FB-3 | SAMPLE | 1 | 03/23/09 | 20:24:06 | 0903121 | |
| 9032025-BLK1 | PBW | PBW | 1 | 03/23/09 | 20:31:02 | 0903117 | P6↑ |
| 9032025-BS1 | LCSW | LCS | 1 | 03/23/09 | 20:37:58 | 0903117 | |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: TASDate: 3/24/09

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ICP Run Log (P4)

File Name: P40323C

| Sample ID | Client Id | Sample Type | Dilut | Date | Time | SDG | Action Needed |
|---------------|-----------|-------------|-------|----------|----------|---------|---------------|
| 0903117-01 | TC-32 | SAMPLE | 1 | 03/23/09 | 20:44:55 | 0903117 | RR |
| 9032025-DUP1 | TC-32D | DUP | 1 | 03/23/09 | 20:51:51 | 0903117 | \| |
| 9032025-MS1 | TC-32S | MS | 1 | 03/23/09 | 20:58:48 | 0903117 | \| |
| 9032025-MSD1 | TC-32SD | MSD | 1 | 03/23/09 | 21:05:44 | 0903117 | \| |
| SDI0903117-01 | TC-32L | SDL | 5 | 03/23/09 | 21:12:41 | 0903117 | \| |
| PDS0903117-01 | TC-32A | SAMPLE | 1 | 03/23/09 | 21:19:37 | 0903117 | \| |
| CCV - 8 | CCV | CCV | 1 | 03/23/09 | 21:26:34 | | |
| CCB - 8 | CCB | CCB | 1 | 03/23/09 | 21:33:32 | | |
| 0903117-02 | TC-25 | SAMPLE | 1 | 03/23/09 | 21:40:29 | 0903117 | RR |
| 0903117-03 | TC-32 DUP | SAMPLE | 1 | 03/23/09 | 21:47:25 | 0903117 | \| |
| 0903117-04 | TC-33 | SAMPLE | 1 | 03/23/09 | 21:54:21 | 0903117 | \| |
| 0903117-05 | EP-2 | SAMPLE | 1 | 03/23/09 | 22:01:17 | 0903117 | \| |
| 0903117-06 | TC-29 | SAMPLE | 1 | 03/23/09 | 22:08:13 | 0903117 | \| |
| 0903117-07 | TC-23 | SAMPLE | 1 | 03/23/09 | 22:15:09 | 0903117 | \| |
| 0903117-08 | IC-3 | SAMPLE | 1 | 03/23/09 | 22:22:05 | 0903117 | \| |
| 0903117-09 | IC-8 | SAMPLE | 1 | 03/23/09 | 22:29:01 | 0903117 | \| |
| 0903117-10 | IC-9 | SAMPLE | 1 | 03/23/09 | 22:35:58 | 0903117 | \| |
| 0903117-11 | TC-21 | SAMPLE | 1 | 03/23/09 | 22:42:54 | 0903117 | \| |
| CCV1 - 9 | CCV1 | CCV | 1 | 03/23/09 | 22:49:50 | | |
| CCB1 - 9 | CCB1 | CCB | 1 | 03/23/09 | 22:56:47 | | |
| 0903117-12 | BC-15 | SAMPLE | 1 | 03/23/09 | 23:03:44 | 0903117 | RR |
| 0903117-13 | IC-7 | SAMPLE | 1 | 03/23/09 | 23:10:41 | 0903117 | \| |
| 0903117-14 | IC-10 | SAMPLE | 1 | 03/23/09 | 23:17:37 | 0903117 | \| |
| 0903117-15 | FB-2 | SAMPLE | 1 | 03/23/09 | 23:24:34 | 0903117 | \| |
| CCV1 - 10 | CCV1 | CCV | 1 | 03/23/09 | 23:31:31 | | |
| CCB1 - 10 | CCB1 | CCB | 1 | 03/23/09 | 23:38:27 | | |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: TASDate: 3/24/09

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METHOD: ALT-P4Q1 STANDARD: SO BLANK
 RUN TIME: 03/23/09 11:23:44

| | | | | | | | |
|------|---------|---------|---------|---------|---------|---------|---------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| AVGE | .00067 | .40174 | .04542 | .13468 | .03539 | .38821 | .21525 |
| SDEV | .00305 | .00244 | .00079 | .00044 | .00182 | .00371 | .00237 |
| %RSD | 458.26 | .60787 | 1.7359 | .32791 | 5.1514 | .95469 | 1.0992 |
| #1 | -.00200 | .39947 | .04632 | .13497 | .03329 | .38463 | .21312 |
| #2 | .00000 | .40432 | .04509 | .13417 | .03636 | .38796 | .21780 |
| #3 | .00400 | .40144 | .04485 | .13490 | .03653 | .39203 | .21482 |
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| AVGE | -.00314 | 1.0129 | -.00181 | .10822 | .00210 | .00085 | .00725 |
| SDEV | .00247 | .0111 | .00383 | .00313 | .00328 | .00056 | .00095 |
| %RSD | 78.490 | 1.0993 | 211.99 | 2.8877 | 156.56 | 65.752 | 13.093 |
| #1 | -.00507 | 1.0109 | -.00615 | .11072 | .00212 | .00036 | .00651 |
| #2 | -.00400 | 1.0249 | .00109 | .10472 | -.00120 | .00145 | .00691 |
| #3 | -.00036 | 1.0029 | -.00036 | .10922 | .00537 | .00072 | .00832 |
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | SB2068 | AS1890 | 22031 |
| AVGE | -.00410 | -.02394 | .00085 | -.00012 | .02453 | -.04764 | .13308 |
| SDEV | .00170 | .01598 | .00076 | .00084 | .01226 | .02522 | .06515 |
| %RSD | 41.515 | 66.767 | 89.310 | 684.95 | 49.954 | 52.930 | 48.959 |
| #1 | -.00543 | -.02859 | .00000 | .00036 | .01049 | -.03437 | .20697 |
| #2 | -.00218 | -.03709 | .00145 | -.00109 | .03309 | -.07672 | .10835 |
| #3 | -.00470 | -.00615 | .00108 | .00036 | .03002 | -.03183 | .08390 |
| ELEM | 22032 | 19601 | 19602 | SN1899 | BI2230 | MO2020 | TI3349 |
| AVGE | -.03079 | -.10686 | .14125 | .01252 | .00496 | .00302 | -.01847 |
| SDEV | .01252 | .01765 | .02340 | .02247 | .00405 | .00092 | .00941 |
| %RSD | 40.675 | 16.520 | 16.570 | 179.50 | 81.675 | 30.496 | 50.948 |
| #1 | -.04523 | -.11181 | .12447 | .02895 | .00036 | .00289 | -.02931 |
| #2 | -.02291 | -.08726 | .16798 | -.01309 | .00800 | .00400 | -.01236 |
| #3 | -.02423 | -.12152 | .13128 | .02170 | .00651 | .00217 | -.01374 |

METHOD: ALT-P4Q1 STANDARD: S RSTD-1

RUN TIME: 03/23/09 11:30:24

| | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|
| ELEM | AG3280 | CD2265 | CR2677 | CU3247 | NI2316 | TL1908 | ZN2062 |
| AVGE | 5.5264 | 53.479 | 9.1296 | 97.798 | 15.193 | 10.422 | 5.0094 |
| SDEV | .0121 | .146 | .0453 | .395 | .054 | .030 | .0137 |
| %RSD | .21813 | .27327 | .49608 | .40420 | .35619 | .28400 | .27285 |

| | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.5277 | 53.421 | 9.0785 | 97.547 | 15.170 | 10.402 | 5.0001 |
| #2 | 5.5137 | 53.370 | 9.1647 | 98.254 | 15.154 | 10.408 | 5.0030 |
| #3 | 5.5377 | 53.645 | 9.1457 | 97.594 | 15.255 | 10.456 | 5.0251 |

| | | | | |
|------|--------|--------|--------|--------|
| ELEM | 22031 | 22032 | 19601 | 19602 |
| AVGE | 71.978 | 26.456 | 15.534 | 30.791 |
| SDEV | .299 | .234 | .026 | .272 |
| %RSD | .41585 | .88526 | .16461 | .88313 |

| | | | | |
|----|--------|--------|--------|--------|
| #1 | 71.887 | 26.201 | 15.537 | 30.543 |
| #2 | 72.312 | 26.661 | 15.507 | 31.082 |
| #3 | 71.735 | 26.505 | 15.557 | 30.748 |

METHOD: ALT-P4Q1 STANDARD: S RSTD-3
RUN TIME: 03/23/09 11:37:05

| | | | | | |
|------|--------|--------|--------|--------|--------|
| ELEM | AL3082 | CA3179 | K 7664 | MG2790 | NA3302 |
| AVGE | 87.354 | 127.12 | 629.78 | 104.12 | 5.6073 |
| SDEV | .621 | 1.02 | 2.06 | .93 | .0222 |
| %RSD | .71098 | .80308 | .32722 | .89695 | .39507 |
| #1 | 87.997 | 128.29 | 631.79 | 105.09 | 5.6201 |
| #2 | 86.758 | 126.42 | 627.67 | 103.23 | 5.5818 |
| #3 | 87.306 | 126.64 | 629.89 | 104.03 | 5.6201 |

METHOD: ALT-P4Q1 STANDARD: S RSTD-2
RUN TIME: 03/23/09 11:42:12

| | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|
| ELEM | BA4934 | BE3130 | CO2286 | FE2714 | MN2576 | V_2924 | AS1890 |
| AVGE | 55.147 | 29.066 | 9.7287 | 9.5571 | 8.9031 | 6.3449 | 20.297 |
| SDEV | .227 | .280 | .1065 | .0828 | .1093 | .0654 | .199 |
| %RSD | .41200 | .96198 | 1.0945 | .86658 | 1.2281 | 1.0313 | .98047 |

| | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 55.407 | 28.967 | 9.8197 | 9.5937 | 8.9836 | 6.3862 | 20.358 |
| #2 | 55.052 | 29.382 | 9.7547 | 9.6152 | 8.9471 | 6.3790 | 20.459 |
| #3 | 54.983 | 28.850 | 9.6116 | 9.4622 | 8.7786 | 6.2695 | 20.075 |

| | |
|------|--------|
| ELEM | MO2020 |
| AVGE | 7.5280 |
| SDEV | .0490 |
| %RSD | .65148 |

| | |
|----|--------|
| #1 | 7.4720 |
| #2 | 7.5490 |
| #3 | 7.5631 |

METHOD: ALT-P4Q1 STANDARD: S RSTD-4
RUN TIME: 03/23/09 11:48:06

| | | | | |
|------|--------|--------|--------|--------|
| ELEM | SB2068 | SN1899 | BI2230 | TI3349 |
| AVGE | 10.960 | 33.633 | 8.2896 | 66.651 |
| SDEV | .001 | .119 | .0259 | .120 |
| %RSD | .00984 | .35465 | .31223 | .17997 |
| #1 | 10.961 | 33.527 | 8.2637 | 66.742 |
| #2 | 10.960 | 33.609 | 8.2895 | 66.695 |
| #3 | 10.959 | 33.762 | 8.3155 | 66.515 |

METHOD: ALT-P4Q1 SAMPLE NAME: ICV1
 RUN TIME: 03/23/09 11:53:14
 COMMENT: ICV1
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 498.9142 | 2506.554 | 507.3462 | 493.5276 | 9801.474 | 501.1345 | 495.2516 |
| SDEV | 1.7554 | 24.325 | 5.1794 | 3.7169 | 51.129 | 2.0317 | 3.1194 |
| %RSD | .3518353 | .9704507 | 1.020880 | .7531319 | .5216487 | .4054135 | .6298667 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 497.1528 | 2534.639 | 512.9534 | 497.5107 | 9858.354 | 503.4775 | 498.4708 |
| #2 | 498.9262 | 2492.152 | 506.3442 | 492.9203 | 9786.732 | 499.8613 | 495.0413 |
| #3 | 500.6635 | 2492.870 | 502.7411 | 490.1517 | 9759.335 | 500.0646 | 492.2426 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 501.0000 | 2521.000 | 497.0000 | 495.0000 | 10026.00 | 496.0000 | 499.0000 |
| RANGE | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 495.1610 | 507.3023 | 4944.682 | 10136.03 | 5811.313 | 493.1105 | 9622.272 |
| SDEV | 4.4151 | 1.9527 | 22.590 | 90.01 | 60.298 | 4.5292 | 28.853 |
| %RSD | .8916441 | .3849242 | .4568634 | .8880019 | 1.037600 | .9184884 | .2998567 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 500.0129 | 507.3519 | 4970.511 | 10239.02 | 5878.283 | 498.0418 | 9647.876 |
| #2 | 491.3795 | 505.3252 | 4928.610 | 10072.44 | 5761.332 | 489.1365 | 9627.933 |
| #3 | 494.0905 | 509.2297 | 4934.925 | 10096.64 | 5794.324 | 492.1532 | 9591.009 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 490.0000 | 492.0000 | 5082.000 | 10021.00 | 6074.000 | 499.0000 | 10097.00 |
| RANGE | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 504.8665 | 1025.323 | 492.0006 | 1024.372 | 1004.486 | 1005.332 | 1007.007 |
| SDEV | 2.1704 | 7.919 | 4.3458 | 4.743 | 6.029 | 4.656 | 7.869 |
| %RSD | .4299021 | .7723644 | .8832820 | .4629877 | .6002404 | .4630879 | .7814332 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 504.2884 | 1034.149 | 496.7899 | 1027.099 | 1010.499 | 1010.642 | 1015.182 |
| #2 | 507.2674 | 1022.982 | 490.9033 | 1027.121 | 1004.517 | 1001.952 | 1006.355 |
| #3 | 503.0436 | 1018.838 | 488.3087 | 1018.895 | 998.4405 | 1003.401 | 999.4840 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 503.0000 | 1028.000 | 501.0000 | 1025.000 | 1002.000 | 1029.000 | 994.0000 |
| RANGE | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 | 10.40000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 995.3217 | 1004.294 | 1004.576 | 1008.359 | 1003.817 | 1070.664 | 1072.280 |
| SDEV | 9.6218 | 9.279 | 4.609 | 7.957 | 3.129 | 5.457 | 9.049 |
| %RSD | .9667042 | .9239426 | .4588191 | .7890679 | .3116796 | .5096475 | .8438596 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1006.414 | 1014.468 | 1008.513 | 1017.546 | 1007.191 | 1075.889 | 1082.370 |
| #2 | 989.2314 | 1002.118 | 1005.710 | 1003.826 | 1001.012 | 1071.101 | 1069.581 |
| #3 | 990.3193 | 996.2966 | 999.5059 | 1003.704 | 1003.246 | 1065.002 | 1064.887 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 999.0000 | | | | | 1100.000 | 1100.000 |
| RANGE | 10.40000 | | | | | 10.40000 | 10.40000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1094.554 | 1066.244 | 2795.622 |
| SDEV | 2.187 | 9.974 | 20.288 |
| %RSD | .1998242 | .9354345 | .7256990 |

| | | | |
|----|----------|----------|----------|
| #1 | 1092.187 | 1077.543 | 2774.333 |
| #2 | 1094.974 | 1062.524 | 2797.800 |
| #3 | 1096.500 | 1058.665 | 2814.733 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1100.000 | 1100.000 | |
| RANGE | 10.40000 | 10.40000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICB
 RUN TIME: 03/23/09 11:59:54
 COMMENT: ICB
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.217155 | -5.34056 | -.061609 | -.125911 | -210.612 | -.071885 | -.355147 |
| SDEV | .232685 | 1.45927 | .033036 | .084544 | 1.181 | .098026 | .716665 |
| %RSD | 107.1517 | 27.32427 | 53.62152 | 67.14606 | .5607480 | 136.3657 | 201.7940 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0482567 | -3.66212 | -.052565 | -.218586 | -210.017 | .0348097 | .2773657 |
| #2 | -.386054 | -6.30857 | -.098225 | -.106151 | -209.847 | -.092501 | -.209283 |
| #3 | -.313669 | -6.05100 | -.034038 | -.052997 | -211.972 | -.157963 | -1.13352 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .5581531 | -.282395 | 13.91309 | 2.735505 | 3.938866 | -.002694 | 18.74750 |
| SDEV | .1184868 | .410367 | 2.86380 | 1.674587 | 2.451736 | .044900 | 39.10838 |
| %RSD | 21.22837 | 145.3167 | 20.58348 | 61.21673 | 62.24472 | 1666.725 | 208.6059 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .6879377 | .0413530 | 13.25379 | 4.585656 | 2.606987 | -.054496 | 31.99404 |
| #2 | .5307584 | -.144617 | 17.04904 | 1.323658 | 6.768272 | .0250600 | -25.2638 |
| #3 | .4557631 | -.743922 | 11.43643 | 2.297201 | 2.441341 | .0213545 | 49.51221 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .3661307 | 2.337199 | .0022518 | -.129746 | .5369220 | -.893786 | 1.545918 |
| SDEV | .1659416 | 1.767139 | .1317922 | .386499 | 2.266827 | 2.021690 | 1.285141 |
| %RSD | 45.32304 | 75.60925 | 5852.696 | 297.8875 | 422.1893 | 226.1939 | 83.13123 |

| | | | | | | | |
|----|----------|----------|----------|----------|-----------|----------|----------|
| #1 | .2083008 | 3.815718 | .0785048 | -.568253 | Q3.152107 | -2.87439 | 1.502381 |
| #2 | .3509506 | .3800459 | .0781793 | .0176364 | -.675218 | 1.166624 | 2.852275 |
| #3 | .5391408 | 2.815833 | -.149929 | .1613769 | -.866123 | -.973592 | .2830994 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.982079 | -.697560 | 1.148413 | -1.05487 | -.817653 | -.686824 | 2.002181 |
| SDEV | 2.881726 | 2.232842 | 2.321792 | .87266 | 2.624757 | 1.320818 | 1.454811 |
| %RSD | 145.3891 | 320.0933 | 202.1739 | 82.72677 | 321.0113 | 192.3081 | 72.66130 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.345147 | 1.795665 | 3.824449 | -1.68093 | -3.47455 | -.011489 | 3.496715 |
| #2 | 1.085993 | -1.37544 | -.330475 | -.058048 | 1.773738 | .1597817 | 1.919182 |
| #3 | 5.205391 | -2.51291 | -.048734 | -1.42564 | -.752146 | -2.20876 | .5906467 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.590078 | .3284725 | 2824.200 |
| SDEV | .802574 | .0687163 | 29.179 |
| %RSD | 30.98649 | 20.91997 | 1.033180 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.506803 | .3054883 | 2802.066 |
| #2 | 2.249347 | .2741944 | 2813.267 |
| #3 | 2.014085 | .4057350 | 2857.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CRI
 RUN TIME: 03/23/09 12:06:34
 COMMENT: CRI
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.11099 | 423.0746 | 404.7662 | 10.18241 | -65.5347 | 10.49282 | 100.6012 |
| SDEV | .10448 | 14.1451 | 8.7272 | .24783 | 3.1161 | .18411 | 2.5597 |
| %RSD | .5195082 | 3.343401 | 2.156119 | 2.433918 | 4.754932 | 1.754667 | 2.544379 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 20.17131 | 439.0213 | 411.6916 | 10.43820 | -62.3644 | 10.70490 | 102.9006 |
| #2 | 20.17131 | 418.1606 | 407.6435 | 10.16564 | -65.6461 | 10.39974 | 101.0597 |
| #3 | 19.99035 | 412.0419 | 394.9636 | 9.943387 | -68.5936 | 10.37384 | 97.84324 |

| | | | | | | | |
|--------|----------|----------|----------|----------|---------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | NOCHECK | QC PASS | QC PASS |
| VALUE | 20.00000 | 400.0000 | 400.0000 | 10.00000 | | 10.00000 | 100.0000 |
| RANGE | 10.00000 | 200.0000 | 200.0000 | 5.000000 | | 5.000000 | 50.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.87210 | 51.08956 | 268.0408 | 2.367866 | 5.677285 | 30.44760 | -.030445 |
| SDEV | .60064 | .31317 | 12.1266 | 1.353412 | 1.300632 | .44316 | 51.18448 |
| %RSD | 2.877722 | .6129771 | 4.524157 | 57.15745 | 22.90940 | 1.455486 | 168118.8 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 21.43601 | 51.44150 | 262.7085 | 2.293613 | 4.861729 | 30.94184 | -47.5374 |
| #2 | 20.93983 | 50.84164 | 259.4941 | 1.053109 | 4.992912 | 30.31529 | -6.72637 |
| #3 | 20.24047 | 50.98553 | 281.9199 | 3.756875 | 7.177215 | 30.08566 | 54.17245 |

| | | | | | | | |
|--------|----------|----------|----------|---------|---------|----------|---------|
| ERRORS | QC PASS | QC PASS | QC PASS | NOCHECK | NOCHECK | QC PASS | NOCHECK |
| VALUE | 20.00000 | 50.00000 | 200.0000 | | | 30.00000 | |
| RANGE | 10.00000 | 25.00000 | 100.0000 | | | 15.00000 | |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 85.60591 | 19.35306 | 100.1213 | 42.55430 | 6.391584 | 8.506936 | 123.0826 |
| SDEV | 1.42606 | .56287 | 2.2435 | .67606 | .613072 | 1.044072 | 2.6168 |
| %RSD | 1.665848 | 2.908435 | 2.240778 | 1.588698 | 9.591865 | 12.27318 | 2.126042 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 87.00915 | 19.03590 | 102.3026 | 43.30553 | 6.636741 | 7.420124 | 126.0773 |
| #2 | 85.65051 | 19.02032 | 100.2409 | 41.99485 | 6.844142 | 8.598440 | 121.9339 |
| #3 | 84.15807 | 20.00294 | 97.82038 | 42.36250 | 5.693870 | 9.502244 | 121.2367 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 80.00000 | 20.00000 | 100.0000 | 40.00000 | 6.000000 | 10.00000 | 120.0000 |
| RANGE | 40.00000 | 10.00000 | 50.00000 | 20.00000 | 3.000000 | 5.000000 | 60.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.93729 | 5.223972 | 6.969097 | 10.15645 | 7.679083 | 50.71783 | 48.37717 |
| SDEV | 1.75706 | 2.514513 | .932031 | 2.52863 | .328163 | 1.47998 | 1.87633 |
| %RSD | 8.392006 | 48.13411 | 13.37378 | 24.89681 | 4.273469 | 2.918075 | 3.878539 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 20.88200 | 7.915915 | 5.992593 | 7.421668 | 7.414937 | 51.96631 | 50.50932 |
| #2 | 19.20852 | 4.820263 | 7.849156 | 10.63800 | 7.575865 | 49.08299 | 47.64437 |
| #3 | 22.72133 | 2.935739 | 7.065542 | 12.40968 | 8.046446 | 51.10421 | 46.97784 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 20.00000 | | | | | 50.00000 | 50.00000 |
| RANGE | 10.00000 | | | | | 25.00000 | 25.00000 |

| | | | |
|-------|-----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | Q49.76049 | 49.51459 | 2794.600 |
| SDEV | 1.87497 | .84518 | 49.596 |
| %RSD | 3.767992 | 1.706933 | 1.774709 |

| | | | |
|----|-----------|----------|----------|
| #1 | Q51.83889 | 50.42961 | 2743.066 |
| #2 | Q49.24635 | 49.35101 | 2798.733 |
| #3 | Q48.19622 | 48.76317 | 2842.000 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC FAIL | QC PASS | NOCHECK |
| VALUE | 20.00000 | 50.00000 | |
| RANGE | 10.00000 | 25.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICSA
RUN TIME: 03/23/09 12:13:13
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

OPERATOR:

Table with 8 columns: ELEM, UNITS, AG3280, AL3082, BA4934, BE3130, CA3179, CD2265, CO2286. Rows include AVG, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each element.

Table with 8 columns: ERRORS, VALUE, RANGE. Rows include QC PASS status and numerical values.

Table with 8 columns: ELEM, UNITS, CR2677, CU3247, FE2714, K_7664, MG2790, MN2576, NA3302. Rows include AVG, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each element.

Table with 8 columns: ERRORS, VALUE, RANGE. Rows include QC PASS status and numerical values.

Table with 8 columns: ELEM, UNITS, NI2316, TL1908, V_2924, ZN2062, PB2203, SE1960, SB2068. Rows include AVG, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each element.

Table with 8 columns: ERRORS, VALUE, RANGE. Rows include QC PASS status and numerical values.

Table with 8 columns: ELEM, UNITS, AS1890, 22031, 22032, 19601, 19602, SN1899, BI2230. Rows include AVG, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each element.

Table with 8 columns: ERRORS, VALUE, RANGE. Rows include QC PASS, NOCHECK, and numerical values.

Table with 4 columns: ELEM, UNITS, MO2020, TI3349, Y_3710. Rows include AVG, SDEV, and %RSD values.

Table with 4 columns: #1, #2, #3. Rows include numerical values for each element.

Table with 4 columns: ERRORS, VALUE, RANGE. Rows include QC PASS, NOCHECK, and numerical values.

METHOD: ALT-P4Q1 SAMPLE NAME: ICSAB

OPERATOR:

RUN TIME: 03/23/09 12:19:53

COMMENT: ICSAB

MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 203.1125 | 246569.5 | 512.9800 | 490.8606 | 255596.1 | 984.8278 | 488.9960 |
| SDEV | .8096 | 1541.6 | 5.6886 | 2.0307 | 1612.4 | 3.8358 | 2.5175 |
| %RSD | .3985757 | .6252152 | 1.108939 | .4137012 | .6308430 | .3894914 | .5148344 |
| #1 | 203.9932 | 248349.4 | 507.9574 | 490.6099 | 256799.5 | 983.3547 | 488.2301 |
| #2 | 202.4008 | 245656.2 | 519.1575 | 488.9669 | 253764.0 | 981.9468 | 486.9504 |
| #3 | 202.9436 | 245703.0 | 511.8251 | 493.0050 | 256224.7 | 989.1818 | 491.8076 |
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 206.0000 | 241100.0 | 495.0000 | 475.0000 | 231100.0 | 940.0000 | 461.0000 |
| RANGE | 41.20000 | 48220.00 | 400.0000 | 95.00000 | 46220.00 | 188.0000 | 92.20000 |
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 532.2700 | 545.3443 | 97815.00 | 5.672813 | 256226.4 | 512.7477 | 937.2487 |
| SDEV | 1.9446 | 1.6030 | 221.29 | .631813 | 373.5 | 2.4479 | 67.4076 |
| %RSD | .3653341 | .2939486 | .2262369 | 11.13757 | .1457650 | .4774068 | 7.192067 |
| #1 | 534.2803 | 546.4890 | 97944.69 | 5.876077 | 256591.3 | 513.6881 | 903.0414 |
| #2 | 530.3987 | 546.0317 | 97559.48 | 4.964385 | 255844.9 | 509.9691 | 893.8035 |
| #3 | 532.1308 | 543.5122 | 97940.84 | 6.177977 | 256243.0 | 514.5859 | 1014.901 |
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 511.0000 | 548.0000 | 94800.00 | .0000000 | 251100.0 | 502.0000 | .0000000 |
| RANGE | 102.2000 | 109.6000 | 18960.00 | 2000.000 | 50220.00 | 100.4000 | 2000.000 |
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1008.169 | 102.8019 | 495.6011 | 1002.285 | 62.82352 | 46.88382 | 624.2244 |
| SDEV | 5.354 | 2.8941 | 4.3601 | .799 | 1.21547 | .26911 | 6.8511 |
| %RSD | .5310644 | 2.815248 | .8797570 | .0797440 | 1.934737 | .5739839 | 1.097538 |
| #1 | 1006.304 | 99.87662 | 499.9374 | 1002.051 | 64.13301 | 46.57312 | 618.5662 |
| #2 | 1003.997 | 102.8653 | 491.2176 | 1001.630 | 61.73141 | 47.03517 | 631.8416 |
| #3 | 1014.206 | 105.6638 | 495.6484 | 1003.176 | 62.60614 | 47.04317 | 622.2653 |
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 984.0000 | 103.0000 | 494.0000 | 1028.000 | 61.00000 | 53.00000 | 589.0000 |
| RANGE | 196.8000 | 20.60000 | 98.80000 | 205.6000 | 12.20000 | 10.60000 | 117.8000 |
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 104.2974 | 44.53958 | 71.94649 | 48.61328 | 46.01585 | 985.9822 | 1021.493 |
| SDEV | .4195 | 3.39492 | .26571 | 2.93127 | 1.86434 | 2.7054 | 1.461 |
| %RSD | .4021732 | 7.622250 | .3693116 | 6.029780 | 4.051517 | .2743898 | .1430587 |
| #1 | 104.7436 | 48.35171 | 72.00617 | 51.97671 | 43.87084 | 983.9727 | 1020.054 |
| #2 | 103.9111 | 41.84217 | 71.65602 | 46.60312 | 47.24634 | 984.9155 | 1021.448 |
| #3 | 104.2375 | 43.42486 | 72.17728 | 47.26001 | 46.93038 | 989.0584 | 1022.976 |
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 101.0000 | | | | | 1000.000 | 1000.000 |
| RANGE | 20.20000 | | | | | 200.0000 | 200.0000 |
| ELEM | MO2020 | TI3349 | Y_3710 | | | | |
| UNITS | UG/L | UG/L | PPM | | | | |
| AVGE | 985.2703 | 983.1477 | 2679.022 | | | | |
| SDEV | 10.4570 | 8.9522 | 2.357 | | | | |
| %RSD | 1.061334 | .9105678 | .0879899 | | | | |
| #1 | 973.3847 | 992.7474 | 2680.733 | | | | |
| #2 | 989.3697 | 975.0272 | 2680.000 | | | | |
| #3 | 993.0565 | 981.6686 | 2676.333 | | | | |
| ERRORS | QC PASS | QC PASS | NOCHECK | | | | |
| VALUE | 1000.000 | 1000.000 | | | | | |
| RANGE | 200.0000 | 200.0000 | | | | | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV

OPERATOR:

RUN TIME: 03/23/09 12:26:33

COMMENT: CCV CVS1

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 100.5187 | 49629.61 | 998.6820 | 1007.989 | 50905.27 | 1002.410 | 987.0544 |
| SDEV | .1305 | 425.81 | 8.6353 | 11.110 | 607.96 | 13.787 | 21.8933 |
| %RSD | .1298179 | .8579678 | .8646659 | 1.102149 | 1.194295 | 1.375431 | 2.218041 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 100.3740 | 50017.94 | 1008.527 | 1017.020 | 51521.53 | 1018.323 | 1011.717 |
| #2 | 100.6273 | 49696.63 | 995.1294 | 1011.362 | 50888.30 | 994.0535 | 979.5334 |
| #3 | 100.5550 | 49174.27 | 992.3898 | 995.5831 | 50305.96 | 994.8522 | 969.9129 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1003.097 | 1017.010 | 24687.15 | 50975.18 | 49330.95 | 992.0961 | 50257.55 |
| SDEV | 15.942 | 3.188 | 414.01 | 341.90 | 801.43 | 18.3618 | 439.70 |
| %RSD | 1.589244 | .3134561 | 1.677016 | .6707236 | 1.624590 | 1.850810 | .8748907 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1021.317 | 1013.363 | 25162.07 | 51342.31 | 50239.64 | 1011.577 | 50610.70 |
| #2 | 996.2595 | 1019.268 | 24497.02 | 50917.35 | 49028.25 | 989.6024 | 50396.88 |
| #3 | 991.7156 | 1018.398 | 24402.36 | 50665.88 | 48724.96 | 975.1085 | 49765.06 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 998.9504 | 993.8843 | 988.3453 | 1118.839 | 996.4833 | 1009.187 | 1019.427 |
| SDEV | 14.2637 | 9.6941 | 12.0259 | 22.625 | 11.1711 | 17.073 | 8.466 |
| %RSD | 1.427866 | .9753719 | 1.216776 | 2.022208 | 1.121052 | 1.691786 | .8304603 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1015.418 | 1004.705 | 1001.258 | 1144.561 | 1009.343 | 1028.436 | 1029.166 |
| #2 | 990.4389 | 990.9559 | 986.3137 | 1109.939 | 989.1791 | 1003.252 | 1015.288 |
| #3 | 990.9949 | 985.9919 | 977.4646 | 1102.017 | 990.9279 | 995.8733 | 1013.827 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1006.486 | 990.6105 | 999.4089 | 1009.901 | 1008.826 | 999.8863 | 1007.560 |
| SDEV | 9.062 | 12.3151 | 10.7543 | 23.787 | 13.965 | 16.8846 | 13.747 |
| %RSD | .9003586 | 1.243183 | 1.076065 | 2.355397 | 1.384305 | 1.688651 | 1.364374 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1016.757 | 1004.361 | 1011.823 | 1037.304 | 1024.004 | 1018.930 | 1023.053 |
| #2 | 1003.079 | 980.5972 | 993.4570 | 997.8310 | 1005.954 | 993.9849 | 1002.805 |
| #3 | 999.6210 | 986.8729 | 992.9464 | 994.5689 | 996.5202 | 986.7445 | 996.8211 |

| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 996.9447 | 990.2856 | 2779.311 |
| SDEV | 6.4791 | 12.3762 | 46.435 |
| %RSD | .6498996 | 1.249758 | 1.670727 |

| | | | |
|----|----------|----------|----------|
| #1 | 1003.313 | 997.8595 | 2725.800 |
| #2 | 990.3603 | 996.9937 | 2803.133 |
| #3 | 997.1606 | 976.0035 | 2809.000 |

| ERRORS | QC PASS | QC PASS | NOCHECK |
|--------|----------|----------|---------|
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB

OPERATOR:

RUN TIME: 03/23/09 12:33:14

COMMENT: CCB

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.096513 | 41.08055 | .2346679 | .2898721 | -173.283 | .6171706 | .7772155 |
| SDEV | .165855 | 65.38162 | .4530589 | .6067822 | 58.800 | 1.140793 | 1.307170 |
| %RSD | 171.8466 | 159.1547 | 193.0639 | 209.3276 | 33.93267 | 184.8424 | 168.1863 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.132706 | 4.562727 | -.036465 | -.051713 | -208.561 | .1289167 | .1327947 |
| #2 | .0844493 | 116.5635 | .7576973 | .9904517 | -105.405 | 1.920833 | 2.281472 |
| #3 | -.241284 | 2.115410 | -.017228 | -.069122 | -205.885 | -.198238 | -.082621 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .9608298 | .1998917 | 25.06890 | 10.51961 | 38.36462 | .3065844 | 31.86859 |
| SDEV | .5427558 | .1658652 | 24.01003 | 12.39479 | 58.23260 | .4842586 | 53.35073 |
| %RSD | 56.48823 | 82.97756 | 95.77615 | 117.8256 | 151.7872 | 157.9528 | 167.4085 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .6879721 | .0413534 | 15.17002 | 4.177600 | 5.117559 | .0265137 | 82.02333 |
| #2 | 1.585874 | .3722225 | 52.44579 | 24.80209 | 105.6044 | .8657578 | 37.76987 |
| #3 | .6086430 | .1860991 | 7.590888 | 2.579136 | 4.371853 | .0274818 | -24.1874 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .8528733 | .2317846 | .4723852 | .4182566 | .4722432 | -2.33723 | 1.835626 |
| SDEV | .7214549 | .4879262 | .4222798 | .4624962 | 1.047335 | .90539 | .710792 |
| %RSD | 84.59109 | 210.5085 | 89.39311 | 110.5772 | 221.7787 | 38.73775 | 38.72205 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5876618 | -.196043 | .0797459 | .0178244 | -.029239 | -1.51106 | 1.521936 |
| #2 | 1.669397 | .1282159 | .9190966 | .9244845 | -.230062 | -2.19550 | 2.649299 |
| #3 | .3015607 | .7631803 | .4183131 | .3124607 | 1.676030 | -3.30513 | 1.335642 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.264190 | .4568479 | .4750004 | -1.13102 | -2.94382 | .1960897 | 1.417713 |
| SDEV | .685375 | 2.122189 | 1.083216 | 2.80728 | .41004 | 1.699403 | .913980 |
| %RSD | 30.27021 | 464.5284 | 228.0453 | 248.2087 | 13.92901 | 866.6457 | 64.46864 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.739480 | -1.81462 | .8572412 | .7382293 | -2.63835 | 2.152688 | 2.373569 |
| #2 | 3.039622 | .7963307 | -.747515 | .2278865 | -3.40985 | -.911676 | 1.327229 |
| #3 | 2.013467 | 2.388831 | 1.315275 | -4.35916 | -2.78325 | -.652743 | .5523400 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.276278 | .6113205 | 2765.022 |
| SDEV | .962792 | .5338377 | 46.725 |
| %RSD | 29.38675 | 87.32536 | 1.689848 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.994433 | .2508839 | 2797.000 |
| #2 | 3.652155 | 1.224606 | 2711.400 |
| #3 | 2.182246 | .3584720 | 2786.666 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: LRS
 RUN TIME: 03/23/09 12:49:05
 COMMENT: SDG:LRS CLIENTID:LRS
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

1:1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.060200 | 194.2550 | 195.0429 | 4.770610 | 1799.928 | 4.929874 | 47.66344 |
| SDEV | .157760 | 6.1869 | 1.7706 | .087327 | 3.149 | .052355 | .58924 |
| %RSD | 1.741237 | 3.184939 | .9078028 | 1.830516 | .1749316 | 1.061993 | 1.236251 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.879237 | 189.1009 | 194.0611 | 4.685177 | 1801.690 | 4.869609 | 47.59186 |
| #2 | 9.132585 | 192.5480 | 193.9807 | 4.766937 | 1796.293 | 4.955860 | 47.11326 |
| #3 | 9.168777 | 201.1162 | 197.0869 | 4.859715 | 1801.802 | 4.964151 | 48.28520 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 15.00000 | 300.0000 | 300.0000 | 7.500000 | 3000.000 | 7.500000 | 75.00000 |
| LOW | 5.000000 | 100.0000 | 100.0000 | 2.500000 | 1000.000 | 2.500000 | 25.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 10.12300 | 24.85211 | 99.28025 | 1845.679 | 1929.709 | 14.62463 | 1836.291 |
| SDEV | .63831 | .24359 | 10.61445 | 8.993 | 1.815 | .11716 | 19.441 |
| %RSD | 6.305542 | .9801519 | 10.69140 | .4872683 | .0940558 | .8011001 | 1.058736 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 10.55227 | 24.91418 | 111.0871 | 1838.482 | 1929.494 | 14.48973 | 1858.576 |
| #2 | 9.389489 | 24.58349 | 90.52824 | 1842.795 | 1931.622 | 14.68327 | 1827.494 |
| #3 | 10.42724 | 25.05866 | 96.22536 | 1855.761 | 1928.011 | 14.70089 | 1822.802 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 15.00000 | 37.00000 | 150.0000 | 3000.000 | 3000.000 | 22.00000 | 3000.000 |
| LOW | 5.000000 | 13.00000 | 50.00000 | 1000.000 | 1000.000 | 7.000000 | 1000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 40.00681 | 8.627281 | 48.59449 | 20.78796 | 3.425977 | 3.847656 | 59.52366 |
| SDEV | .24743 | 1.369056 | .25879 | .28264 | .709354 | 1.595550 | 1.67998 |
| %RSD | .6184590 | 15.86891 | .5325404 | 1.359654 | 20.70516 | 41.46810 | 2.822367 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|-----------|----------|
| #1 | 40.21834 | 9.967682 | 48.84654 | 20.74996 | 4.241685 | 4.195951 | 57.82944 |
| #2 | 40.06737 | 7.231265 | 48.60747 | 21.08769 | 3.082537 | L2.106730 | 59.55253 |
| #3 | 39.73473 | 8.682897 | 48.32946 | 20.52624 | 2.953710 | 5.240289 | 61.18902 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60.00000 | 15.00000 | 75.00000 | 30.00000 | 4.500000 | 7.500000 | 90.00000 |
| LOW | 20.00000 | 5.000000 | 25.00000 | 10.00000 | 1.500000 | 2.500000 | 30.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 11.92842 | 2.728343 | 3.769407 | 5.300466 | 3.118016 | 18.47631 | 20.97778 |
| SDEV | .30980 | 2.049098 | .052097 | 3.996090 | 1.055544 | 1.67947 | .86449 |
| %RSD | 2.597149 | 75.10413 | 1.382100 | 75.39130 | 33.85307 | 9.089878 | 4.120981 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 12.21138 | 5.076748 | 3.819924 | 8.062404 | 2.261306 | 18.37988 | 21.71805 |
| #2 | 11.97648 | 1.804237 | 3.715862 | .7183235 | 2.795566 | 20.20193 | 20.02769 |
| #3 | 11.59740 | 1.304043 | 3.772435 | 7.120669 | 4.297177 | 16.84714 | 21.18759 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 15.00000 | | | | | 30.00000 | 30.00000 |
| LOW | 5.000000 | | | | | 10.00000 | 10.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 19.98993 | 19.66906 | 2800.533 |
| SDEV | .55458 | .23606 | 4.802 |
| %RSD | 2.774307 | 1.200141 | .1714601 |

| | | | |
|----|----------|----------|----------|
| #1 | 20.33460 | 19.59761 | 2805.733 |
| #2 | 20.28500 | 19.47699 | 2799.600 |
| #3 | 19.35019 | 19.93259 | 2796.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30.00000 | 30.00000 | |
| LOW | 10.00000 | 10.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ZZZZZZ OPERATOR:
 RUN TIME: 03/23/09 12:56:01
 COMMENT: SDG:0903067 CLIENTID:PBW 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | H513.1982 | H2564.306 | H519.8650 | H504.9762 | H9948.833 | H505.9711 | H502.2010 |
| SDEV | 2.1247 | 15.050 | 2.1412 | 4.0281 | 89.996 | 1.8555 | 4.2790 |
| %RSD | .4140086 | .5869018 | .4118704 | .7976773 | .9045934 | .3667193 | .8520421 |

| | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | H510.9784 | H2546.974 | H521.0929 | H504.2144 | H9889.814 | H504.0666 | H497.5979 |
| #2 | H513.4033 | H2571.872 | H517.3926 | H501.3835 | H9904.269 | H506.0734 | H502.9475 |
| #3 | H515.2129 | H2574.072 | H521.1094 | H509.3308 | H10052.42 | H507.7733 | H506.0576 |

| ERRORS | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HIGH | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |
| LOW | -5.000000 | -200.0000 | -200.0000 | -5.000000 | -5000.000 | -5.000000 | -5.000000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | H505.6123 | H524.0975 | H5030.062 | H10391.48 | H5940.696 | H500.7443 | H10110.55 |
| SDEV | 5.5896 | 3.2308 | 62.157 | 28.52 | 44.439 | 4.8382 | 103.16 |
| %RSD | 1.105507 | .6164517 | 1.235708 | .2744139 | .7480403 | .9661976 | 1.020272 |

| | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | H499.3510 | H520.4727 | H4961.601 | H10361.92 | H5893.888 | H495.2050 | H10008.64 |
| #2 | H507.3863 | H526.6738 | H5045.629 | H10393.70 | H5945.892 | H502.8856 | H10108.10 |
| #3 | H510.0995 | H525.1461 | H5082.956 | H10418.82 | H5982.309 | H504.1423 | H10214.91 |

| ERRORS | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HIGH | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |
| LOW | -5.000000 | -5.000000 | -100.0000 | -5000.000 | -5000.000 | -10.00000 | -5000.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | H512.2641 | H1043.865 | H501.5711 | H1036.823 | H1022.385 | H1014.927 | H1023.649 |
| SDEV | 1.9121 | 10.931 | 5.8217 | 11.444 | 4.655 | 2.621 | 1.491 |
| %RSD | .3732656 | 1.047200 | 1.160693 | 1.103776 | .4552828 | .2582942 | .1456566 |

| | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | H511.1031 | H1031.278 | H495.3524 | H1025.194 | H1017.012 | H1013.065 | H1023.164 |
| #2 | H511.2182 | H1049.339 | H502.4694 | H1037.201 | H1024.945 | H1017.925 | H1022.461 |
| #3 | H514.4710 | H1050.979 | H506.8914 | H1048.073 | H1025.198 | H1013.790 | H1025.322 |

| ERRORS | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH | LC HIGH |
|--------|------------|------------|------------|------------|-----------|-----------|------------|
| HIGH | 40.000000 | 10.000000 | 20.000000 | 20.000000 | 3.000000 | 5.000000 | 10.000000 |
| LOW | -40.000000 | -10.000000 | -20.000000 | -20.000000 | -3.000000 | -5.000000 | -10.000000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|-----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | H1013.701 | 1027.759 | 1019.697 | 1013.558 | 1015.606 | -.988530 | .5191336 |
| SDEV | 7.194 | 6.134 | 4.047 | 4.692 | 3.267 | 1.790904 | 1.475270 |
| %RSD | .7096703 | .5967984 | .3968387 | .4628940 | .3216847 | 181.1685 | 284.1792 |

| | | | | | | | |
|----|-----------|----------|----------|----------|----------|----------|----------|
| #1 | H1008.258 | 1020.893 | 1015.070 | 1008.154 | 1015.513 | -1.42431 | 2.204960 |
| #2 | H1010.987 | 1029.685 | 1022.573 | 1015.927 | 1018.918 | .9800485 | -.111852 |
| #3 | H1021.857 | 1032.698 | 1021.449 | 1016.593 | 1012.386 | -2.52133 | -.535707 |

| ERRORS | LC HIGH | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|------------|---------|---------|---------|---------|-----------|-----------|
| HIGH | 10.000000 | | | | | 100.0000 | 50.00000 |
| LOW | -10.000000 | | | | | -100.0000 | -50.00000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | .3411549 | .1809443 | 2814.066 |
| SDEV | .4951900 | .2402061 | 1.333 |
| %RSD | 145.1511 | 132.7514 | .0473825 |

| | | | |
|----|----------|----------|----------|
| #1 | -.230641 | -.091942 | 2812.733 |
| #2 | .6273266 | .3603861 | 2814.066 |
| #3 | .6267793 | .2743885 | 2815.400 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|-----------|------------|---------|
| HIGH | 5.000000 | 40.000000 | |
| LOW | -5.000000 | -40.000000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031305-BS1 OPERATOR:
 RUN TIME: 03/23/09 13:02:58
 COMMENT: SDG:0903067 CLIENTID:LCSW 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|-----------|-----------|-----------|----------|-----------|----------|-----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | L518.8201 | L2613.137 | L522.7908 | 512.6840 | L10199.07 | 515.1862 | L514.3599 |
| SDEV | .2542 | 27.492 | .4804 | 3.3239 | 92.82 | 3.4224 | 4.6054 |
| %RSD | .0489991 | 1.052062 | .0918941 | .6483419 | .9101122 | .6642968 | .8953567 |

| | | | | | | | |
|----|-----------|-----------|-----------|----------|-----------|----------|-----------|
| #1 | L518.5788 | L2630.808 | L523.2143 | 515.0017 | L10273.24 | 518.8117 | L516.9907 |
| #2 | L518.7960 | L2581.463 | L522.2687 | 508.8756 | L10094.98 | 512.0117 | L509.0422 |
| #3 | L519.0855 | L2627.140 | L522.8893 | 514.1747 | L10228.98 | 514.7351 | L517.0468 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC LOW | LC LOW | LC LOW | LC PASS | LC LOW | LC PASS | LC LOW |
| HIGH | 1200.000 | 24000.00 | 24000.00 | 600.0000 | 60000.00 | 600.0000 | 6000.000 |
| LOW | 800.0000 | 16000.00 | 16000.00 | 400.0000 | 40000.00 | 400.0000 | 4000.000 |

| | | | | | | | |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | L515.2834 | L530.1681 | L5131.607 | L10488.31 | L6025.195 | L512.9928 | L10150.77 |
| SDEV | 8.2745 | 1.5512 | 56.701 | 55.33 | 81.143 | 7.5768 | 120.15 |
| %RSD | 1.605822 | .2925903 | 1.104930 | .5275434 | 1.346728 | 1.476973 | 1.183624 |

| | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | L523.7084 | L529.5900 | L5187.803 | L10511.26 | L6101.744 | L520.4323 | L10207.84 |
| #2 | L507.1681 | L528.9890 | L5074.415 | L10425.20 | L5940.129 | L505.2859 | L10012.73 |
| #3 | L514.9737 | L531.9254 | L5132.604 | L10528.47 | L6033.711 | L513.2603 | L10231.75 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW |
| HIGH | 1200.000 | 3000.000 | 12000.00 | 60000.00 | 60000.00 | 1800.000 | 60000.00 |
| LOW | 800.0000 | 2000.000 | 8000.000 | 40000.00 | 40000.00 | 1200.000 | 40000.00 |

| | | | | | | | |
|-------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | L520.0803 | 1062.948 | L509.9304 | L1058.114 | H1040.269 | H1022.438 | L1033.985 |
| SDEV | 1.7291 | 4.588 | 3.8594 | 7.377 | 5.366 | 4.233 | 1.292 |
| %RSD | .3324681 | .4316746 | .7568419 | .6972118 | .5158134 | .4140534 | .1250010 |

| | | | | | | | |
|----|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| #1 | L520.3063 | 1058.689 | L511.2358 | L1064.927 | H1044.194 | H1026.108 | L1034.492 |
| #2 | L518.2493 | 1062.349 | L505.5876 | L1050.279 | H1034.154 | H1017.806 | L1032.516 |
| #3 | L521.6853 | 1067.807 | L512.9678 | L1059.135 | H1042.458 | H1023.398 | L1034.947 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC LOW | LC PASS | LC LOW | LC LOW | LC HIGH | LC HIGH | LC LOW |
| HIGH | 4800.000 | 1200.000 | 6000.000 | 2400.000 | 360.0000 | 600.0000 | 7200.000 |
| LOW | 3200.000 | 800.0000 | 4000.000 | 1600.000 | 240.0000 | 400.0000 | 4800.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|-----------|-----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1017.960 | 1039.227 | 1040.784 | 1023.227 | 1022.039 | L-1.01060 | L1.600291 |
| SDEV | 5.783 | 9.558 | 3.317 | 15.772 | 3.220 | .99724 | 1.144081 |
| %RSD | .5680782 | .9197672 | .3186598 | 1.541445 | .3150642 | 98.67772 | 71.49205 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|-----------|-----------|
| #1 | 1024.024 | 1046.935 | 1042.820 | 1040.528 | 1018.905 | L.0984821 | L2.890465 |
| #2 | 1012.507 | 1028.531 | 1036.957 | 1009.649 | 1021.875 | L-1.29694 | L1.201192 |
| #3 | 1017.347 | 1042.214 | 1042.574 | 1019.503 | 1025.339 | L-1.83335 | L.7092165 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC LOW | LC LOW |
| HIGH | 1200.000 | | | | | 1205.000 | 1205.000 |
| LOW | 800.0000 | | | | | 795.0000 | 795.0000 |

| | | | |
|-------|-----------|-----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | L.3472222 | L.2516063 | 2803.711 |
| SDEV | .9441180 | .0021854 | 20.257 |
| %RSD | 271.9059 | .8685839 | .7224958 |

| | | | |
|----|-----------|-----------|----------|
| #1 | L.0642704 | L.2495644 | 2784.867 |
| #2 | L-.423065 | L.2539114 | 2825.133 |
| #3 | L1.400462 | L.2513430 | 2801.133 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC LOW | LC LOW | NOCHECK |
| HIGH | 1205.000 | 1205.000 | |
| LOW | 795.0000 | 795.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-01 OPERATOR:
 RUN TIME: 03/23/09 13:11:17
 COMMENT: SDG:0903067 CLIENTID:2IC52M 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2412836 | 118.7159 | 359.4489 | .7432724 | 178909.9 | 1.561085 | 9.271481 |
| SDEV | .1632012 | 7.6075 | 1.8328 | .1119119 | 1404.6 | .148676 | .153828 |
| %RSD | 67.63875 | 6.408176 | .5098863 | 15.05664 | .7850771 | 9.523869 | 1.659157 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2292194 | 115.6223 | 360.4178 | .7740579 | 178513.1 | 1.721676 | 9.348685 |
| #2 | .4101822 | 127.3828 | 360.5938 | .8365695 | 177746.4 | 1.428232 | 9.371416 |
| #3 | .0844493 | 113.1425 | 357.3350 | .6191900 | 180470.2 | 1.533346 | 9.094340 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|-----------|----------|----------|-----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .5474864 | 3.671284 | 4033.078 | H609950.7 | 126613.1 | 464.9993 | H632455.6 |
| SDEV | .2599028 | .166976 | 37.037 | 4161.2 | 785.5 | 4.0688 | 3726.6 |
| %RSD | 47.47200 | 4.548150 | .9183207 | .6822120 | .6204061 | .8750067 | .5892268 |

| | | | | | | | |
|----|----------|----------|----------|-----------|----------|----------|-----------|
| #1 | .7743854 | 3.864091 | 4016.565 | H607673.5 | 126420.6 | 463.0332 | H633470.9 |
| #2 | .6041458 | 3.574881 | 4007.171 | H607425.1 | 125941.7 | 462.2869 | H628326.6 |
| #3 | .2639279 | 3.574881 | 4075.499 | H614753.4 | 127476.9 | 469.6777 | H635569.3 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC HIGH | LC PASS | LC PASS | LC HIGH |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 73.64636 | -.229561 | 1.694522 | .6972950 | .4165836 | 1.625722 | 1.129055 |
| SDEV | .95999 | 2.324244 | .143304 | .3775392 | .8458008 | 1.611626 | .208685 |
| %RSD | 1.303515 | 1012.471 | 8.456880 | 54.14339 | 203.0327 | 99.13294 | 18.48315 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 72.88907 | 2.430584 | 1.529610 | .6675583 | -.034190 | 2.044891 | 1.368377 |
| #2 | 74.72605 | -1.86758 | 1.765189 | .3355035 | 1.392291 | 2.986347 | 1.033747 |
| #3 | 73.32396 | -1.25169 | 1.788767 | 1.088823 | -.108351 | -.154073 | .9850407 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 17.81073 | .2532311 | .4928936 | 3.507273 | .6816950 | .7165401 | 1.952095 |
| SDEV | 1.88305 | .7008268 | 1.381827 | 5.723690 | .5017959 | 1.580972 | 1.546269 |
| %RSD | 10.57257 | 276.7538 | 280.3500 | 163.1949 | 73.61002 | 220.6397 | 79.21075 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 15.96046 | 1.031706 | -.571603 | 4.405116 | .8618680 | 2.200274 | 2.122069 |
| #2 | 17.74679 | .0554108 | 2.054502 | 8.728980 | .1146889 | -.946398 | 3.406354 |
| #3 | 19.72494 | -.327424 | -.004218 | -2.61228 | 1.068528 | .8957437 | .3278617 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 12.03737 | -.961474 | 2602.467 |
| SDEV | .85770 | .024571 | 9.165 |
| %RSD | 7.125336 | 2.555563 | .3521717 |

| | | | |
|----|----------|----------|----------|
| #1 | 11.12111 | -.979027 | 2592.467 |
| #2 | 12.16990 | -.933393 | 2610.467 |
| #3 | 12.82109 | -.972002 | 2604.467 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031304-DUP1 OPERATOR:
 RUN TIME: 03/23/09 13:18:13
 COMMENT: SDG:0903067 CLIENTID:2IC52MD 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0603209 | 102.5431 | 352.3591 | .4519880 | 178596.5 | 1.530721 | 8.608433 |
| SDEV | .2925409 | 10.4054 | 2.3682 | .1820781 | 3777.0 | .233425 | .524628 |
| %RSD | 484.9742 | 10.14731 | .6721035 | 40.28384 | 2.114847 | 15.24932 | 6.094353 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3739896 | 114.5504 | 350.1534 | .6620846 | 174266.3 | 1.326818 | 8.028634 |
| #2 | .0120642 | 96.91238 | 352.0620 | .3537970 | 180311.2 | 1.785332 | 8.746314 |
| #3 | -.205091 | 96.16641 | 354.8619 | .3400825 | 181212.1 | 1.480015 | 9.050351 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|-----------|----------|----------|-----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6065514 | 3.574756 | 4005.505 | H606677.5 | 125247.9 | 463.6091 | H628884.9 |
| SDEV | .3642917 | .247903 | 78.492 | 10863.1 | 1899.2 | 7.9876 | 8032.8 |
| %RSD | 60.05949 | 6.934826 | 1.959593 | 1.790587 | 1.516378 | 1.722919 | 1.277307 |

| | | | | | | | |
|----|----------|----------|----------|-----------|----------|----------|-----------|
| #1 | .1887445 | 3.326809 | 3917.525 | 594585.2 | 123097.0 | 454.3904 | H619926.5 |
| #2 | .8577216 | 3.574843 | 4030.637 | H609835.9 | 125952.5 | 468.4723 | H631281.6 |
| #3 | .7731882 | 3.822616 | 4068.352 | H615611.4 | 126694.1 | 467.9645 | H635446.5 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC HIGH | LC PASS | LC PASS | LC HIGH |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 73.80833 | -1.61288 | 1.357676 | -.305121 | 1.408391 | -1.00474 | 1.285716 |
| SDEV | 1.52375 | 3.00030 | .295185 | .168775 | .791092 | 1.44087 | .662980 |
| %RSD | 2.064466 | 186.0221 | 21.74194 | 55.31426 | 56.16993 | 143.4071 | 51.56499 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 72.14220 | -.722657 | 1.365874 | -.269470 | 2.035645 | -2.24048 | .5284688 |
| #2 | 75.13111 | -4.95755 | 1.648677 | -.157019 | .5196630 | -1.35165 | 1.761674 |
| #3 | 74.15168 | .8415775 | 1.058477 | -.488874 | 1.669866 | .5779145 | 1.567007 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 18.18451 | -.428087 | 2.320074 | 1.901799 | -2.46043 | -1.80266 | 1.513879 |
| SDEV | 2.51805 | 1.193477 | .726003 | 4.871281 | 2.99001 | 2.29166 | .818224 |
| %RSD | 13.84721 | 278.7932 | 31.29225 | 256.1406 | 121.5236 | 127.1265 | 54.04816 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 17.37054 | .8861916 | 2.604373 | 4.969538 | -5.84465 | .4106172 | .9373246 |
| #2 | 21.00886 | -1.44424 | 1.494945 | -3.71510 | -.176324 | -4.16539 | 2.450368 |
| #3 | 16.17414 | -.726211 | 2.860904 | 4.450957 | -1.36033 | -1.65321 | 1.153944 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 11.81550 | -1.18848 | 2634.533 |
| SDEV | .27894 | .11145 | 18.984 |
| %RSD | 2.360823 | 9.377863 | .7205828 |

| | | | |
|----|----------|----------|----------|
| #1 | 11.54127 | -1.21608 | 2656.400 |
| #2 | 12.09893 | -1.28354 | 2624.933 |
| #3 | 11.80631 | -1.06582 | 2622.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031304-MS1 OPERATOR:
 RUN TIME: 03/23/09 13:25:09
 COMMENT: SDG:0903067 CLIENTID:2IC52MS 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 52.26203 | 2294.117 | 2362.163 | 50.20617 | 176233.4 | 51.64687 | 504.8390 |
| SDEV | .19933 | 74.149 | 58.497 | 1.55146 | 4881.6 | 1.85429 | 14.7993 |
| %RSD | .3814094 | 3.232138 | 2.476415 | 3.090170 | 2.769944 | 3.590326 | 2.931495 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 52.49125 | 2341.706 | 2389.996 | 51.06047 | 179808.7 | 52.64439 | 514.2340 |
| #2 | 52.16552 | 2331.964 | 2401.547 | 51.14272 | 178219.6 | 52.78886 | 512.5037 |
| #3 | 52.12933 | 2208.682 | 2294.947 | 48.41534 | 170671.8 | 49.50734 | 487.7794 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|-----------|----------|----------|-----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 201.2124 | 265.8534 | 4958.471 | H610166.8 | 124865.2 | 958.5715 | H627994.2 |
| SDEV | 5.3732 | .9436 | 135.513 | 27114.8 | 3381.3 | 29.1438 | 12644.9 |
| %RSD | 2.670390 | .3549467 | 2.732951 | 4.443833 | 2.707929 | 3.040332 | 2.013532 |

| | | | | | | | |
|----|----------|----------|----------|-----------|----------|----------|-----------|
| #1 | 205.1242 | 265.8223 | 5042.329 | H624867.8 | 126711.1 | 979.5498 | H635890.9 |
| #2 | 203.4271 | 266.8123 | 5030.953 | H626756.1 | 126921.7 | 970.8703 | H634681.8 |
| #3 | 195.0858 | 264.9257 | 4802.133 | 578876.2 | 120962.7 | 925.2944 | H613409.9 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC HIGH | LC PASS | LC PASS | LC HIGH |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 568.3249 | 51.22900 | 495.0680 | 501.5597 | 20.64995 | 55.71241 | 108.4112 |
| SDEV | 14.3119 | 1.63608 | 13.7174 | 14.6122 | .65860 | 2.81919 | 2.3997 |
| %RSD | 2.518265 | 3.193666 | 2.770810 | 2.913358 | 3.189333 | 5.060263 | 2.213507 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 577.6780 | 52.89879 | 505.8567 | 509.3818 | 21.31110 | 54.46766 | 110.1191 |
| #2 | 575.4476 | 49.62884 | 499.7170 | 510.5958 | 20.64481 | 58.93974 | 109.4468 |
| #3 | 551.8492 | 51.15938 | 479.6303 | 484.7015 | 19.99394 | 53.72983 | 105.6676 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 55.32441 | 19.20742 | 21.36549 | 56.26610 | 55.43133 | -.244634 | 1.584380 |
| SDEV | 3.88282 | .87391 | .55838 | 5.84062 | 1.88085 | 1.721700 | .504956 |
| %RSD | 7.018280 | 4.549862 | 2.613479 | 10.38035 | 3.393112 | 703.7855 | 31.87089 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 59.76065 | 20.14498 | 21.88858 | 51.52768 | 55.93074 | -.051567 | 1.968515 |
| #2 | 52.54407 | 19.06185 | 21.43040 | 62.79143 | 57.01208 | -2.05473 | 1.772194 |
| #3 | 53.66850 | 18.41544 | 20.77749 | 54.47920 | 53.35119 | 1.372394 | 1.012430 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 11.23782 | -.963143 | 2613.244 |
| SDEV | .69157 | .032184 | 61.685 |
| %RSD | 6.153949 | 3.341589 | 2.360477 |

| | | | |
|----|----------|----------|----------|
| #1 | 10.98610 | -.953169 | 2576.867 |
| #2 | 12.01999 | -.999134 | 2578.400 |
| #3 | 10.70736 | -.937127 | 2684.467 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: SDIO903067-01 5X OPERATOR:
 RUN TIME: 03/23/09 13:32:05
 COMMENT: SDG:0903067 CLIENTID:2IC52ML 1:5
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1930269 | 23.96289 | 70.95883 | .0638047 | 36246.91 | .4598565 | 2.262913 |
| SDEV | .2732477 | 7.55735 | .59048 | .0352506 | 193.61 | .0727359 | .254128 |
| %RSD | 141.5594 | 31.53771 | .8321437 | 55.24758 | .5341451 | 15.81709 | 11.23011 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4463747 | 18.72288 | 70.66225 | .0348236 | 36210.34 | .4008889 | 2.136230 |
| #2 | .2292194 | 32.62609 | 71.63882 | .1030475 | 36456.19 | .4375462 | 2.555481 |
| #3 | -.096513 | 20.53970 | 70.57544 | .0535431 | 36074.19 | .5411344 | 2.097030 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6340931 | .8334800 | 803.6751 | 132713.4 | 24987.24 | 94.72852 | 141490.8 |
| SDEV | .4715334 | .1210257 | 10.1721 | 886.2 | 160.03 | .79368 | 563.7 |
| %RSD | 74.36343 | 14.52052 | 1.265702 | .6677455 | .6404368 | .8378451 | .3983675 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.170799 | .7853755 | 801.2445 | 131827.5 | 24853.15 | 93.92509 | 140842.2 |
| #2 | .4451340 | .7439027 | 814.8423 | 133599.9 | 25164.39 | 95.51207 | 141768.5 |
| #3 | .2863457 | .9711618 | 794.9384 | 132712.8 | 24944.17 | 94.74841 | 141861.8 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 14.93313 | .6215395 | .3810006 | .9642756 | .1502052 | -1.53219 | 1.271988 |
| SDEV | .80162 | 1.823986 | .1763439 | .3091327 | .4814933 | 1.98583 | 2.114338 |
| %RSD | 5.368035 | 293.4626 | 46.28442 | 32.05854 | 320.5570 | 129.6069 | 166.2232 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.03192 | 2.533433 | .5715767 | 1.065685 | -.343764 | -.124990 | .6775768 |
| #2 | 15.20084 | -1.09954 | .3478233 | .6171756 | .6181685 | -.667884 | 3.619908 |
| #3 | 15.56663 | .4307218 | .2236018 | 1.209966 | .1762111 | -3.80371 | -.481522 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.775080 | -.531669 | .4856633 | 1.242819 | -2.92204 | -2.37710 | 2.570413 |
| SDEV | 1.701670 | .171696 | .6633930 | 1.055887 | 2.52076 | 3.32028 | .901099 |
| %RSD | 45.07639 | 32.29373 | 136.5953 | 84.95900 | 86.26713 | 139.6781 | 35.05657 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.722454 | -.721128 | -.160322 | 2.349806 | -1.36494 | -1.11110 | 2.884829 |
| #2 | 1.810574 | -.487521 | 1.165191 | 1.131856 | -1.57084 | .1239439 | 3.272180 |
| #3 | 4.792214 | -.386359 | .4521210 | .2467959 | -5.83033 | -6.14414 | 1.554232 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.100359 | -.045960 | 2743.600 |
| SDEV | .126031 | .010155 | 11.778 |
| %RSD | 6.000449 | 22.09482 | .4292962 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.028776 | -.052073 | 2749.200 |
| #2 | 2.245880 | -.034238 | 2730.066 |
| #3 | 2.026420 | -.051568 | 2751.533 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: SDI0903067-01 15X OPERATOR:
 RUN TIME: 03/23/09 13:39:01
 COMMENT: SDG:0903067 CLIENTID:2IC52ML 1:15
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.024128 | 13.14139 | 23.88473 | .1106972 | 11945.05 | .1549533 | .5256262 |
| SDEV | .180963 | 12.13328 | .27134 | .1701781 | 149.43 | .1318407 | .6517506 |
| %RSD | 750.0002 | 92.32873 | 1.136048 | 153.7329 | 1.250973 | 85.08412 | 123.9951 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.024128 | 19.54788 | 23.79727 | .2020149 | 11844.59 | .1880877 | .6553732 |
| #2 | .1568344 | -.852319 | 23.66790 | -.085648 | 11873.78 | .0097061 | -.181239 |
| #3 | -.205091 | 20.72860 | 24.18901 | .2157248 | 12116.77 | .2670661 | 1.102744 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .9023390 | .0000675 | 272.5572 | 47723.02 | 8365.300 | 31.90638 | 47139.50 |
| SDEV | .1694903 | .3043435 | 9.0053 | 440.30 | 93.038 | .39718 | 525.48 |
| %RSD | 18.78344 | 451129.7 | 3.304004 | .9226074 | 1.112186 | 1.244827 | 1.114735 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .8474778 | -.351154 | 269.2014 | 47662.86 | 8314.678 | 31.79169 | 46987.70 |
| #2 | .7670747 | .1652961 | 265.7116 | 47315.89 | 8308.549 | 31.57917 | 46706.62 |
| #3 | 1.092465 | .1860599 | 282.7585 | 48190.30 | 8472.672 | 32.34829 | 47724.16 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.138354 | 1.454242 | .2441406 | .9035525 | .5330929 | -1.70228 | .3610322 |
| SDEV | .651757 | 3.485030 | .1767656 | .4502310 | .8811589 | .72245 | .5425525 |
| %RSD | 12.68416 | 239.6457 | 72.40321 | 49.82897 | 165.2918 | 42.44019 | 150.2781 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.421233 | -.812507 | .3930119 | 1.397112 | .8903179 | -2.40764 | .6383705 |
| #2 | 5.299205 | -.291935 | .0487749 | .7982203 | 1.179546 | -1.73534 | -.264130 |
| #3 | 5.694625 | 5.467168 | .2906351 | .5153256 | -.470585 | -.963867 | .7088565 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6438304 | -.669593 | 1.128609 | -2.18778 | -1.46427 | -.613810 | .7969295 |
| SDEV | .5778036 | 1.798367 | 1.080270 | .70860 | .87411 | 1.507290 | .5503529 |
| %RSD | 89.74469 | 268.5763 | 95.71694 | 32.38913 | 59.69600 | 245.5631 | 69.05917 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.249948 | 1.334799 | .6634986 | -2.98327 | -2.12462 | .7276373 | .8249066 |
| #2 | .0992694 | -1.20175 | 2.363529 | -1.62416 | -1.79519 | -2.24490 | 1.332760 |
| #3 | .5822741 | -2.14183 | .3587980 | -1.95592 | -.473017 | -.324162 | .2331217 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .3936243 | .1384772 | 2766.600 |
| SDEV | .4027535 | .0959848 | 29.903 |
| %RSD | 102.3193 | 69.31455 | 1.080857 |

| | | | |
|----|----------|----------|----------|
| #1 | .8418049 | .0408408 | 2773.867 |
| #2 | .0620120 | .1418702 | 2792.200 |
| #3 | .2770559 | .2327205 | 2733.733 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: PDS0903067-01 OPERATOR:
 RUN TIME: 03/23/09 13:45:57
 COMMENT: SDG:0903067 CLIENTID:2IC52MA 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.09893 | 552.7076 | 748.0553 | 10.56101 | 178255.9 | 11.29478 | 106.6480 |
| SDEV | .39148 | 17.2405 | 11.7126 | .32613 | 2115.0 | .31619 | 1.8747 |
| %RSD | 1.947777 | 3.119271 | 1.565742 | 3.088059 | 1.186474 | 2.799468 | 1.757876 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 19.77319 | 569.1259 | 761.3455 | 10.85573 | 180392.8 | 11.63294 | 108.7272 |
| #2 | 19.99035 | 554.2487 | 743.5814 | 10.61669 | 176163.5 | 11.00648 | 106.1303 |
| #3 | 20.53324 | 534.7484 | 739.2390 | 10.21063 | 178211.5 | 11.24492 | 105.0865 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|-----------|----------|----------|-----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.32945 | 54.38125 | 4210.861 | H617370.4 | 126020.2 | 490.7019 | H632786.2 |
| SDEV | .28598 | .37907 | 51.751 | 13579.1 | 1795.5 | 5.7964 | 6083.7 |
| %RSD | 1.406709 | .6970667 | 1.228995 | 2.199511 | 1.424778 | 1.181249 | .9614226 |

| | | | | | | | |
|----|----------|----------|----------|-----------|----------|----------|-----------|
| #1 | 20.19115 | 54.25091 | 4269.443 | H632085.1 | 128093.2 | 497.3574 | H639680.9 |
| #2 | 20.13891 | 54.08454 | 4171.358 | H614703.6 | 125015.0 | 487.9882 | H630504.4 |
| #3 | 20.65829 | 54.80830 | 4191.781 | H605322.6 | 124952.6 | 486.7602 | H628173.2 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC HIGH | LC PASS | LC PASS | LC HIGH |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 152.5967 | 18.92180 | 98.05719 | 39.74623 | 6.146215 | 10.62279 | 129.5793 |
| SDEV | 2.3863 | 2.45383 | 1.73101 | .29866 | 1.786373 | .23069 | 1.3968 |
| %RSD | 1.563802 | 12.96826 | 1.765311 | .7514136 | 29.06460 | 2.171628 | 1.077983 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 154.5949 | 21.35927 | 99.77348 | 39.75252 | 6.022941 | 10.84841 | 130.6050 |
| #2 | 153.2406 | 18.95421 | 96.31181 | 39.44447 | 4.424673 | 10.63260 | 127.9884 |
| #3 | 149.9544 | 16.45193 | 98.08628 | 40.04169 | 7.991033 | 10.38735 | 130.1445 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 35.87135 | 5.554795 | 6.435651 | 12.70620 | 9.577973 | -2.03072 | .7903354 |
| SDEV | 2.98485 | 1.375560 | 1.992414 | 1.63189 | .723549 | 3.12132 | 1.821436 |
| %RSD | 8.320976 | 24.76346 | 30.95901 | 12.84322 | 7.554306 | 153.7055 | 230.4637 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 39.31791 | 5.389394 | 6.333314 | 12.55327 | 9.992514 | -4.84280 | 2.489573 |
| #2 | 34.13189 | 4.269414 | 4.496378 | 14.40917 | 8.742498 | 1.327705 | 1.014064 |
| #3 | 34.16426 | 7.005577 | 8.477261 | 11.15616 | 9.998907 | -2.57705 | -1.13263 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 10.64848 | -.990379 | 2600.511 |
| SDEV | 1.36884 | .075088 | 37.396 |
| %RSD | 12.85481 | 7.581771 | 1.438038 |

| | | | |
|----|----------|----------|----------|
| #1 | 12.11798 | -1.05843 | 2559.066 |
| #2 | 10.41785 | -1.00288 | 2610.733 |
| #3 | 9.409600 | -.909824 | 2631.733 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-01 3X OPERATOR:
 RUN TIME: 03/23/09 13:52:53
 COMMENT: SDG:0903067 CLIENTID:2IC52M 1:3
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.373990 | 47.94362 | 119.4618 | .3080052 | 60753.02 | .7206383 | 3.607809 |
| SDEV | .501934 | 1.33138 | .9441 | .0680606 | 614.27 | .2746566 | .730853 |
| %RSD | 134.2106 | 2.776970 | .7903066 | 22.09724 | 1.011087 | 38.11297 | 20.25752 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0482567 | 49.47985 | 118.7379 | .3400032 | 60048.77 | .4941712 | 2.776405 |
| #2 | -.928942 | 47.12473 | 120.5297 | .3541699 | 61178.29 | 1.026150 | 3.898128 |
| #3 | -.241284 | 47.22628 | 119.1178 | .2298423 | 61031.99 | .6415941 | 4.148894 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .5250446 | .9024014 | 1285.520 | 215735.5 | 42020.61 | 157.6832 | 235587.8 |
| SDEV | .1625730 | .2895720 | 23.393 | 1134.3 | 281.51 | 2.2497 | 767.1 |
| %RSD | 30.96365 | 32.08905 | 1.819693 | .5257820 | .6699289 | 1.426714 | .3256057 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3631839 | 1.198727 | 1263.154 | 214443.7 | 41741.93 | 155.2101 | 234875.8 |
| #2 | .5236291 | .8883858 | 1283.586 | 216568.7 | 42015.04 | 158.2310 | 235487.3 |
| #3 | .6883206 | .6200917 | 1309.819 | 216194.1 | 42304.87 | 159.6083 | 236400.1 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 25.90390 | 1.369503 | .3461147 | .9348956 | -.465733 | -.555431 | .4238077 |
| SDEV | .99660 | .900922 | .6842132 | .3194007 | 1.250881 | 2.745857 | .6960717 |
| %RSD | 3.847296 | 65.78458 | 197.6839 | 34.16431 | 268.5831 | 494.3655 | 164.2424 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 25.12279 | 1.875347 | .8429508 | 1.181442 | -.935450 | -3.49893 | 1.145290 |
| #2 | 25.56259 | .3293380 | -.434293 | 1.049168 | .9520147 | 1.936909 | -.243713 |
| #3 | 27.02631 | 1.903824 | .6296864 | .5740766 | -1.41376 | -.104274 | .3698458 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.462909 | -2.70657 | .6479616 | .1383997 | -.906308 | -1.11030 | .1366548 |
| SDEV | 1.908561 | 2.36465 | 3.052134 | 3.495677 | 2.916665 | 2.39363 | .2332475 |
| %RSD | 34.93672 | 87.36715 | 471.0362 | 2525.783 | 321.8184 | 215.5840 | 170.6837 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.260563 | -1.55984 | -.628732 | -3.75848 | -3.37380 | .0536583 | -.112902 |
| #2 | 6.494360 | -5.42593 | 4.131139 | 1.175530 | 2.312521 | -3.86331 | .1737089 |
| #3 | 6.633803 | -1.13392 | -1.55852 | 2.998152 | -1.65765 | .4787492 | .3491573 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.368865 | -.107112 | 2703.933 |
| SDEV | .983576 | .127859 | 15.861 |
| %RSD | 29.19606 | 119.3700 | .5865747 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.638037 | -.203352 | 2720.933 |
| #2 | 4.189831 | -.155953 | 2689.533 |
| #3 | 2.278726 | .0379691 | 2701.333 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV

OPERATOR:

RUN TIME: 03/23/09 13:59:50

COMMENT: CCV CVS1

MODE: CONC CORR. FACTOR: 1 .

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 100.4705 | 51456.36 | 1033.505 | 1036.387 | 52116.82 | 1036.260 | 1011.156 |
| SDEV | .7002 | 2583.49 | 43.937 | 48.602 | 2423.80 | 44.636 | 42.135 |
| %RSD | .6969619 | 5.020742 | 4.251299 | 4.689571 | 4.650709 | 4.307447 | 4.167049 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 101.2788 | 54429.25 | 1083.925 | 1092.469 | 54915.52 | 1087.738 | 1059.805 |
| #2 | 100.0844 | 49755.73 | 1013.179 | 1010.134 | 50733.05 | 1012.744 | 986.2231 |
| #3 | 100.0482 | 50184.10 | 1003.411 | 1006.556 | 50701.88 | 1008.299 | 987.4408 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1028.506 | 1028.218 | 25412.32 | 53885.77 | 51142.04 | 1014.430 | 51927.39 |
| SDEV | 42.636 | 8.537 | 1033.42 | 2150.12 | 2239.49 | 38.813 | 2140.39 |
| %RSD | 4.145455 | .8302624 | 4.066614 | 3.990138 | 4.378966 | 3.826100 | 4.121890 |

| | | | | | | | |
|----|----------|----------|----------|-----------|----------|----------|----------|
| #1 | 1077.711 | 1036.407 | 26605.61 | Q56368.31 | 53727.51 | 1059.134 | 54390.48 |
| #2 | 1002.515 | 1019.371 | 24812.58 | 52617.63 | 49806.63 | 989.3128 | 50519.40 |
| #3 | 1005.290 | 1028.876 | 24818.79 | 52671.35 | 49891.96 | 994.8445 | 50872.28 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1031.029 | 1034.218 | 1016.900 | 1138.988 | 1026.000 | 1046.178 | 1056.789 |
| SDEV | 45.645 | 46.135 | 55.844 | 47.654 | 30.869 | 30.466 | 42.079 |
| %RSD | 4.427088 | 4.460852 | 5.491624 | 4.183878 | 3.008631 | 2.912123 | 3.981757 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|-----------|
| #1 | 1083.663 | 1087.362 | 1081.384 | 1193.994 | 1061.491 | 1081.347 | Q1104.677 |
| #2 | 1007.099 | 1004.446 | 984.5668 | 1110.185 | 1011.113 | 1029.312 | 1039.966 |
| #3 | 1002.326 | 1010.847 | 984.7504 | 1112.787 | 1005.396 | 1027.875 | 1025.724 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1047.408 | 1017.067 | 1030.454 | 1052.830 | 1042.853 | 1032.374 | 1047.025 |
| SDEV | 46.041 | 27.539 | 32.532 | 30.966 | 30.254 | 46.383 | 48.288 |
| %RSD | 4.395691 | 2.707677 | 3.157033 | 2.941239 | 2.901120 | 4.492874 | 4.611942 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1100.546 | 1048.762 | 1067.839 | 1088.469 | 1077.787 | 1085.931 | 1102.701 |
| #2 | 1022.249 | 1003.440 | 1014.938 | 1037.514 | 1025.212 | 1005.212 | 1021.825 |
| #3 | 1019.428 | 998.9972 | 1008.586 | 1032.505 | 1025.559 | 1005.979 | 1016.551 |

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|---------|---------|---------|---------|---------|---------|---------|

| | | | | | | | |
|-------|----------|--|--|--|--|----------|----------|
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1021.892 | 1023.331 | 2695.822 |
| SDEV | 37.038 | 50.734 | 95.694 |
| %RSD | 3.624440 | 4.957754 | 3.549703 |

| | | | |
|----|----------|----------|----------|
| #1 | 1064.288 | 1081.884 | 2585.333 |
| #2 | 1005.565 | 992.4478 | 2749.867 |
| #3 | 995.8220 | 995.6609 | 2752.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB
 RUN TIME: 03/23/09 14:06:47
 COMMENT: CCB
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .3739896 | 16.65764 | .0673239 | .1787963 | -201.437 | .3396973 | .3197016 |
| SDEV | .2373304 | 11.72844 | .0618673 | .1739500 | 1.456 | .3066309 | .6211183 |
| %RSD | 63.45908 | 70.40878 | 91.89505 | 97.28950 | .7229232 | 90.26593 | 194.2807 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3377971 | 12.33063 | .0672245 | .2386808 | -201.539 | .2024278 | .3714059 |
| #2 | .1568344 | 29.93483 | .0055063 | .3148932 | -202.840 | .1256832 | -.325653 |
| #3 | .6273374 | 7.707460 | .1292407 | -.017185 | -199.933 | .6909808 | .9133516 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .7949416 | -.020543 | 20.96566 | 30.61827 | 14.49573 | .0282034 | 117.4760 |
| SDEV | .3211257 | .372606 | 11.90781 | 5.19727 | 4.67054 | .0821353 | 150.2893 |
| %RSD | 40.39614 | 1813.801 | 56.79675 | 16.97441 | 32.22010 | 291.2252 | 127.9320 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.086006 | .2894179 | 24.73679 | 29.30229 | 12.53832 | -.053204 | 147.9875 |
| #2 | .4504552 | -.433939 | 7.628901 | 26.20548 | 11.12237 | .0267669 | -45.7279 |
| #3 | .8483633 | .0828922 | 30.53131 | 36.34703 | 19.82648 | .1110475 | 250.1684 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .4627235 | 3.642264 | .3885905 | .0184110 | .3273049 | 1.164904 | 1.996313 |
| SDEV | .6612950 | .994467 | .4063847 | .2555380 | .4001264 | .341719 | 2.718045 |
| %RSD | 142.9136 | 27.30353 | 104.5792 | 1387.963 | 122.2488 | 29.33455 | 136.1532 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2054553 | 4.775794 | .4267090 | .1657800 | .2309225 | 1.461618 | 2.674622 |
| #2 | -.031275 | 2.916450 | -.035510 | -.276659 | .7668195 | .7912856 | -.996648 |
| #3 | 1.213990 | 3.234547 | .7745728 | .1661118 | -.015827 | 1.241808 | 4.310965 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.433788 | -1.76373 | 1.366352 | 2.866349 | .3110968 | -2.33414 | .5609954 |
| SDEV | 3.206744 | .62804 | .907605 | .788953 | .1420354 | 1.74648 | 1.324811 |
| %RSD | 93.38793 | 35.60834 | 66.42541 | 27.52466 | 45.65632 | 74.82331 | 236.1536 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.971399 | -1.78444 | 1.232186 | 3.436540 | .4712778 | -1.40328 | 1.961416 |
| #2 | -.007782 | -2.38116 | 2.333572 | 1.965942 | .2005010 | -4.34887 | -.672356 |
| #3 | 6.337749 | -1.12560 | .5332982 | 3.196566 | .2615116 | -1.25027 | .3939263 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.866241 | .5324627 | 2777.489 |
| SDEV | 1.010083 | .0577889 | 14.335 |
| %RSD | 35.24070 | 10.85313 | .5160972 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.834570 | .4886902 | 2777.267 |
| #2 | 2.945125 | .5107310 | 2791.933 |
| #3 | 1.819028 | .5979670 | 2763.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031304-DUP1 3X OPERATOR:
 RUN TIME: 03/23/09 14:13:44
 COMMENT: SDG:0903067 CLIENTID:2IC52MD 1:3
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.168899 | 38.72091 | 115.8181 | .1875498 | 58898.10 | .4396569 | 2.366173 |
| SDEV | .226022 | 23.38077 | 6.0468 | .4328118 | 2442.48 | .5222642 | 1.701103 |
| %RSD | 133.8214 | 60.38281 | 5.220969 | 230.7717 | 4.146962 | 118.7890 | 71.89257 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0844493 | 50.22112 | 119.1400 | .4453501 | 60254.34 | .7428038 | 3.457876 |
| #2 | -.241284 | 11.81733 | 108.8385 | -.312134 | 56078.44 | -.163399 | .4061475 |
| #3 | -.349861 | 54.12428 | 119.4758 | .4294329 | 60361.52 | .7395659 | 3.234496 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .8699598 | 1.164121 | 1258.727 | 210507.7 | 41023.50 | 153.5960 | 232135.2 |
| SDEV | .3181497 | .191918 | 52.354 | 10094.6 | 1919.05 | 6.8012 | 8302.2 |
| %RSD | 36.57062 | 16.48606 | 4.159260 | 4.795336 | 4.677932 | 4.427972 | 3.576430 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5240822 | 1.033426 | 1282.622 | 215698.4 | 42158.64 | 157.4923 | 236710.4 |
| #2 | 1.150117 | 1.384458 | 1198.689 | 198874.0 | 38807.80 | 145.7427 | 222552.0 |
| #3 | .9356803 | 1.074480 | 1294.869 | 216950.8 | 42104.07 | 157.5529 | 237143.2 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 24.60750 | .1343166 | .5687759 | .4434105 | .9698666 | .3551541 | 1.214614 |
| SDEV | .79094 | 3.152157 | .2516712 | .3933579 | .6559431 | .8533714 | 1.632251 |
| %RSD | 3.214237 | 2346.811 | 44.24787 | 88.71192 | 67.63230 | 240.2820 | 134.3843 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 25.09448 | -1.67883 | .8570583 | .5848051 | 1.263138 | -.526293 | -.650913 |
| #2 | 23.69488 | -1.69233 | .4563893 | -.001100 | .2184538 | 1.177363 | 2.379965 |
| #3 | 25.03313 | 3.774106 | .3928802 | .7465261 | 1.428008 | .4143920 | 1.914792 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.338000 | -1.51429 | 2.205119 | 2.139837 | -.540263 | -1.20406 | -1.03875 |
| SDEV | .467108 | 2.13950 | 1.378477 | 4.063939 | 1.943974 | 2.01315 | 1.30065 |
| %RSD | 8.750625 | 141.2869 | 62.51257 | 189.9181 | 359.8199 | 167.1973 | 125.2139 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.905993 | .8468401 | 1.465910 | 2.483842 | -2.03361 | -2.88193 | .0811725 |
| #2 | 5.274330 | -2.06539 | 1.353914 | 6.020839 | -1.24496 | -1.75843 | -2.46533 |
| #3 | 5.833678 | -3.32433 | 3.795533 | -2.08517 | 1.657781 | 1.028194 | -.732079 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 4.226484 | -.137553 | 2747.822 |
| SDEV | .599315 | .202700 | 105.394 |
| %RSD | 14.17999 | 147.3614 | 3.835558 |

| | | | |
|----|----------|----------|----------|
| #1 | 4.783796 | -.346725 | 2691.733 |
| #2 | 3.592538 | .0579879 | 2869.400 |
| #3 | 4.303118 | -.123923 | 2682.333 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-02 OPERATOR:
 RUN TIME: 03/23/09 14:20:40
 COMMENT: SDG:0903067 CLIENTID:1IC48 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0361925 | 111.1283 | 189.1875 | .8623916 | 204247.0 | 1.057203 | 4.248915 |
| SDEV | .0910826 | 9.0577 | 1.7068 | .2266595 | 516.5 | .169002 | .518157 |
| %RSD | 251.6611 | 8.150631 | .9021987 | 26.28266 | .2528718 | 15.98581 | 12.19505 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0482567 | 115.8210 | 191.1171 | 1.009855 | 204744.2 | 1.250892 | 4.830213 |
| #2 | .1206418 | 116.8768 | 187.8750 | .9759173 | 203713.2 | .9397393 | 4.080969 |
| #3 | -.060321 | 100.6872 | 188.5705 | .6014023 | 204283.8 | .9809764 | 3.835562 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.087921 | -.157717 | 5125.633 | 17294.14 | 62472.23 | 893.9333 | 498731.7 |
| SDEV | .217115 | .293258 | 18.630 | 67.72 | 419.54 | 6.4924 | 869.4 |
| %RSD | 5.311145 | 185.9402 | .3634614 | .3915987 | .6715695 | .7262736 | .1743281 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.228118 | .1040464 | 5144.460 | 17372.33 | 62833.61 | 901.4298 | 499650.9 |
| #2 | 4.197817 | -.474637 | 5125.232 | 17256.03 | 62570.95 | 890.1290 | 497922.6 |
| #3 | 3.837829 | -.102559 | 5107.207 | 17254.04 | 62012.12 | 890.2411 | 498621.4 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 8.778107 | .2290909 | 2.281077 | .1637520 | 1.120775 | -1.46961 | 2.328415 |
| SDEV | .749462 | 2.106995 | .245117 | .1504951 | 1.152192 | 1.30210 | .754988 |
| %RSD | 8.537853 | 919.7203 | 10.74566 | 91.90426 | 102.8031 | 88.60144 | 32.42500 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 7.939683 | -1.79277 | 2.375307 | .0144017 | -.137838 | -.435710 | 3.188947 |
| #2 | 9.383000 | .0680547 | 2.002828 | .1614880 | 1.376629 | -1.04118 | 1.777231 |
| #3 | 9.011637 | 2.411983 | 2.465095 | .3153663 | 2.123534 | -2.93195 | 2.019067 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.233173 | -.263930 | 1.806939 | .7184247 | -2.56657 | 2.886188 | 1.585590 |
| SDEV | .691478 | .908075 | 1.438760 | 1.087041 | 2.48702 | 3.172553 | 1.767956 |
| %RSD | 30.96390 | 344.0598 | 79.62415 | 151.3089 | 96.90036 | 109.9219 | 111.5015 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.462118 | -.735329 | .1552663 | -.302841 | -.506662 | 5.842122 | 3.085352 |
| #2 | 2.781143 | -.839364 | 2.477815 | .5970609 | -1.86366 | -.465795 | 2.035169 |
| #3 | 1.456259 | .7829038 | 2.787737 | 1.861054 | -5.32939 | 3.282238 | -.363751 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.930574 | .0307664 | 2649.422 |
| SDEV | .414353 | .1521073 | 22.101 |
| %RSD | 10.54180 | 494.3950 | .8341815 |

| | | | |
|----|----------|----------|----------|
| #1 | 4.107461 | -.127149 | 2627.200 |
| #2 | 3.457134 | .1763105 | 2649.666 |
| #3 | 4.227127 | .0431371 | 2671.400 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-02 3X OPERATOR:
 RUN TIME: 03/23/09 14:27:36
 COMMENT: SDG:0903067 CLIENTID:1IC48 1:3
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0361925 | 41.35252 | 62.57402 | .3496842 | 69322.42 | .5119246 | 1.431189 |
| SDEV | .1163427 | 15.40715 | .35156 | .2760278 | 199.71 | .1999403 | .663178 |
| %RSD | 321.4550 | 37.25808 | .5618382 | 78.93632 | .2880952 | 39.05658 | 46.33756 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0844493 | 42.58849 | 62.97783 | .4660672 | 69261.16 | .4107378 | 1.611874 |
| #2 | .1206418 | 56.10447 | 62.33601 | .5484607 | 69545.59 | .7422317 | 1.985300 |
| #3 | -.096513 | 25.36461 | 62.40823 | .0345246 | 69160.52 | .3828043 | .6963938 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.823732 | -.144466 | 1711.555 | 4794.353 | 20842.22 | 305.1744 | 183282.7 |
| SDEV | .145781 | .426834 | 10.900 | 40.384 | 234.41 | 4.4061 | 1414.1 |
| %RSD | 7.993552 | 295.4560 | .6368766 | .8423314 | 1.124665 | 1.443790 | .7715405 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.991927 | -.082419 | 1715.478 | 4822.583 | 20920.00 | 305.1966 | 183531.0 |
| #2 | 1.745531 | -.598928 | 1719.951 | 4812.382 | 21027.85 | 309.5693 | 184556.1 |
| #3 | 1.733736 | .2479482 | 1699.236 | 4748.095 | 20578.81 | 300.7573 | 181760.8 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.158845 | -1.77326 | .7578524 | .7996564 | 1.173529 | -3.73628 | .8059198 |
| SDEV | .504613 | .57490 | .2369432 | .2346108 | 1.336833 | 1.00872 | 1.980519 |
| %RSD | 15.97460 | 32.42062 | 31.26509 | 29.33895 | 113.9156 | 26.99800 | 245.7464 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.676164 | -2.34871 | .7608069 | 1.056407 | .4687351 | -3.24251 | -1.42472 |
| #2 | 3.132392 | -1.19891 | .9933046 | .5964367 | .3365688 | -4.89677 | 2.357860 |
| #3 | 2.667979 | -1.77217 | .5194458 | .7461259 | 2.715283 | -3.06957 | 1.484620 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.101905 | -.866592 | 2.187063 | -4.48442 | -3.36722 | -.340513 | 1.284695 |
| SDEV | 2.888982 | 2.087764 | 1.843479 | 1.37990 | .97181 | .698749 | 1.314601 |
| %RSD | 262.1808 | 240.9167 | 84.29015 | 30.77095 | 28.86100 | 205.2048 | 102.3279 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.397130 | .6422564 | .3770824 | -4.60134 | -2.56858 | -.548005 | 2.218472 |
| #2 | 4.432292 | -3.24929 | 2.121800 | -5.80213 | -4.44922 | -.912015 | 1.854253 |
| #3 | -.729448 | .0072633 | 4.062306 | -3.04978 | -3.08386 | .4384814 | -.218641 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.294645 | .1983456 | 2728.022 |
| SDEV | .490080 | .0599523 | 18.933 |
| %RSD | 37.85439 | 30.22617 | .6940329 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.175382 | .1633361 | 2714.533 |
| #2 | .8752049 | .1641297 | 2719.867 |
| #3 | 1.833350 | .2675711 | 2749.666 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-03

OPERATOR:

RUN TIME: 03/23/09 14:34:33

COMMENT: SDG:0903067 CLIENTID:1EAM146 1:1

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0482567 | 102.1124 | 168.2121 | .7137343 | 201561.6 | .9759510 | 4.030091 |
| SDEV | .0361925 | 10.1729 | 5.1741 | .1235187 | 5446.7 | .3385353 | .697030 |
| %RSD | 75.00000 | 9.962492 | 3.075914 | 17.30598 | 2.702272 | 34.68774 | 17.29565 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0482567 | 111.5441 | 171.9287 | .8314375 | 206271.8 | 1.179732 | 4.307078 |
| #2 | .0844493 | 91.33263 | 162.3027 | .5851235 | 195597.1 | .5851641 | 3.237143 |
| #3 | .0120642 | 103.4606 | 170.4049 | .7246420 | 202816.0 | 1.162957 | 4.546051 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.250986 | -.130250 | -99.4095 | 17086.40 | 61683.46 | 879.6746 | 494158.3 |
| SDEV | .316191 | .167107 | 9.7395 | 403.40 | 1383.68 | 20.2787 | 7503.8 |
| %RSD | 9.726004 | 128.2975 | 9.797396 | 2.360969 | 2.243202 | 2.305256 | 1.518511 |

| | | | | | | | |
|----|----------|----------|-----------|----------|----------|----------|----------|
| #1 | 3.408841 | -.102660 | -97.3392 | 17381.95 | 62845.75 | 898.7304 | 500642.1 |
| #2 | 2.886948 | -.309436 | -90.8716 | 16626.81 | 60152.89 | 858.3618 | 485938.7 |
| #3 | 3.457170 | .0213452 | L-110.018 | 17250.42 | 62051.72 | 881.9316 | 495894.2 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.720955 | 1.287326 | 2.014104 | .2824573 | .8055816 | .4085033 | 2.334147 |
| SDEV | .395946 | 4.666610 | .286916 | .3850135 | .6677284 | 1.724286 | 1.102741 |
| %RSD | 4.073123 | 362.5042 | 14.24532 | 136.3086 | 82.88773 | 422.0985 | 47.24387 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 9.536490 | 5.111047 | 2.135972 | -.128235 | .4955389 | 1.249690 | 1.499925 |
| #2 | 9.450899 | 2.663568 | 1.686371 | .6352288 | .3492386 | -1.57493 | 1.918135 |
| #3 | 10.17548 | -3.91264 | 2.219969 | .3403785 | 1.571967 | 1.550749 | 3.584380 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.753349 | -.079105 | 1.242119 | 2.948412 | -.864118 | 7.532366 | -1.52903 |
| SDEV | .378365 | 1.089948 | .501413 | 2.195164 | 3.012943 | 1.331143 | .46981 |
| %RSD | 50.22442 | 1377.848 | 40.36758 | 74.45242 | 348.6725 | 17.67231 | 30.72591 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.14724 | -.884780 | 1.179425 | .4768691 | 1.630865 | 8.496843 | -1.65370 |
| #2 | -.720113 | -.513617 | .7750013 | 3.696996 | -4.21140 | 6.013652 | -1.00946 |
| #3 | -.392699 | 1.161082 | 1.771932 | 4.671372 | -.011819 | 8.086602 | -1.92393 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.823912 | -1.31994 | 2653.800 |
| SDEV | .395609 | .03000 | 58.020 |
| %RSD | 10.34565 | 2.272948 | 2.186283 |

| | | | |
|----|----------|----------|----------|
| #1 | 4.253361 | -1.30946 | 2604.800 |
| #2 | 3.744045 | -1.35377 | 2717.867 |
| #3 | 3.474330 | -1.29658 | 2638.733 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-03 3X OPERATOR:
RUN TIME: 03/23/09 14:41:29
COMMENT: SDG:0903067 CLIENTID:1EAM146 1:3
MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.048257 | 50.25488 | 56.32162 | .5002917 | 67827.19 | .2645422 | 1.388660 |
| SDEV | .146270 | 9.64807 | .12771 | .1888539 | 838.13 | .2152395 | .268578 |
| %RSD | 303.1089 | 19.19828 | .2267580 | 37.74876 | 1.235689 | 81.36300 | 19.34081 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.024128 | 59.97340 | 56.46338 | .6509050 | 66865.80 | .0547692 | 1.083292 |
| #2 | -.205091 | 50.11240 | 56.28595 | .5615594 | 68404.14 | .4848605 | 1.588218 |
| #3 | .0844493 | 40.67883 | 56.21554 | .2884107 | 68211.62 | .2539969 | 1.494470 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.498200 | -.461258 | -58.0193 | 4745.318 | 20614.47 | 299.0500 | 180749.7 |
| SDEV | .243226 | .255043 | 3.0735 | 21.389 | 210.85 | 1.5823 | 1656.6 |
| %RSD | 16.23454 | 55.29288 | 5.297423 | .4507359 | 1.022804 | .5291046 | .9165276 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.252845 | -.743680 | -58.4559 | 4734.601 | 20468.98 | 297.3973 | 179096.6 |
| #2 | 1.502517 | -.392332 | -60.8512 | 4769.947 | 20856.27 | 300.5509 | 182409.9 |
| #3 | 1.739239 | -.247762 | -54.7508 | 4731.406 | 20518.14 | 299.2019 | 180742.6 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.770209 | -1.64219 | .7211925 | .7053295 | .5591759 | -1.82081 | 2.164862 |
| SDEV | .102057 | 3.29856 | .1378258 | .4352301 | 2.624464 | 1.35809 | .472644 |
| %RSD | 2.706945 | 200.8639 | 19.11082 | 61.70593 | 469.3450 | 74.58759 | 21.83252 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.887353 | .8495148 | .6397285 | .4534362 | 1.368080 | -.260349 | 1.925176 |
| #2 | 3.722759 | -.393229 | .8803250 | 1.207889 | 2.683966 | -2.73576 | 2.709329 |
| #3 | 3.700515 | -5.38285 | .6435241 | .4546629 | -2.37452 | -2.46630 | 1.860082 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.965220 | -1.10575 | 1.385399 | -1.50925 | -1.98078 | 2.364709 | .1160137 |
| SDEV | 1.232673 | 1.60004 | 3.209459 | 2.68219 | .82329 | 2.444499 | .9439231 |
| %RSD | 127.7090 | 144.7018 | 231.6632 | 177.7163 | 41.56396 | 103.3742 | 813.6310 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.059199 | .0240979 | 2.034091 | 1.383323 | -1.08537 | 4.837143 | -.748904 |
| #2 | -2.36893 | -.404692 | 4.220962 | -3.91413 | -2.15192 | -.050863 | -.025922 |
| #3 | -.467533 | -2.93665 | -2.09886 | -1.99695 | -2.70506 | 2.307847 | 1.122867 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.721572 | -.277998 | 2730.955 |
| SDEV | .608556 | .051727 | 12.969 |
| %RSD | 35.34885 | 18.60702 | .4748889 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.841512 | -.330302 | 2741.066 |
| #2 | 2.261227 | -.226868 | 2716.333 |
| #3 | 1.061976 | -.276822 | 2735.467 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-04 OPERATOR:
 RUN TIME: 03/23/09 14:48:26
 COMMENT: SDG:0903067 CLIENTID:1EAM146D 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.012064 | 92.95335 | 170.8728 | .5942907 | 209061.9 | .9344196 | 4.783324 |
| SDEV | .208958 | 5.39541 | 2.6921 | .0295501 | 2386.9 | .1038798 | .640441 |
| %RSD | 1732.051 | 5.804424 | 1.575512 | 4.972331 | 1.141713 | 11.11704 | 13.38904 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2292194 | 88.91053 | 169.8370 | .5941245 | 208716.5 | .9461435 | 4.610036 |
| #2 | -.132706 | 99.07989 | 173.9289 | .6239236 | 211602.7 | .8251753 | 5.492578 |
| #3 | -.132706 | 90.86961 | 168.8524 | .5648241 | 206866.5 | 1.031940 | 4.247358 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 60000.0 | 50000.00 | 5000.000 | 60000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.976258 | -.054428 | -88.8697 | 17494.93 | 63652.44 | 906.8614 | 509234.2 |
| SDEV | .178990 | .175762 | 7.3228 | 155.60 | 623.56 | 8.4138 | 1828.7 |
| %RSD | 4.501474 | 322.9282 | 8.239884 | .8894268 | .9796269 | .9277969 | .3591079 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.138217 | .1246661 | -88.6716 | 17384.93 | 63582.25 | 904.6482 | 508527.6 |
| #2 | 4.006475 | -.061292 | -81.6480 | 17672.96 | 64308.13 | 916.1607 | 511310.8 |
| #3 | 3.784083 | -.226657 | -96.2895 | 17426.89 | 63066.96 | 899.7755 | 507864.3 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 60000.0 | 60000.0 | 60000.0 | 40000.00 | 60000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.685879 | -1.16280 | 2.199610 | -.010816 | .7659109 | -.031360 | 2.239054 |
| SDEV | 1.006222 | 3.20711 | .088928 | .159477 | 1.291588 | 1.861514 | 1.102354 |
| %RSD | 10.38855 | 275.8086 | 4.042907 | 1474.488 | 168.6343 | 5935.929 | 49.23304 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 9.900207 | -3.42565 | 2.235088 | -.011121 | 2.225951 | 2.064918 | 3.121201 |
| #2 | 10.56767 | 2.507358 | 2.265322 | -.170140 | -.227569 | -1.49114 | 1.003281 |
| #3 | 8.589761 | -2.57011 | 2.098419 | .1488135 | .2993506 | -.667859 | 2.592680 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.502020 | -1.49858 | 1.891265 | .4929310 | -.297730 | 8.832834 | .9540673 |
| SDEV | 1.875315 | 1.74157 | 1.067369 | 4.242676 | .747037 | 1.266458 | 1.685366 |
| %RSD | 53.54952 | 116.2143 | 56.43678 | 860.7039 | 250.9105 | 14.33807 | 176.6506 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.974307 | .4601651 | 3.102336 | 5.372429 | .4090321 | 9.478738 | -.907340 |
| #2 | 2.936825 | -2.87234 | 1.087591 | -2.32520 | -1.07940 | 7.373652 | 2.376534 |
| #3 | 5.594927 | -2.08357 | 1.483869 | -1.56844 | -.222826 | 9.646114 | 1.393007 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 4.755855 | -1.37073 | 2626.844 |
| SDEV | .341095 | .09158 | 22.210 |
| %RSD | 7.172104 | 6.681190 | .8454852 |

| | | | |
|----|----------|----------|----------|
| #1 | 4.406078 | -1.47491 | 2631.333 |
| #2 | 4.773939 | -1.33432 | 2602.733 |
| #3 | 5.087549 | -1.30295 | 2646.467 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-04 3X OPERATOR:
 RUN TIME: 03/23/09 14:55:23
 COMMENT: SDG:0903067 CLIENTID:1EAM146D 1:3
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.048257 | 52.75470 | 56.30109 | .5950078 | 68204.83 | .6111652 | 1.968871 |
| SDEV | .235483 | 6.76420 | .29170 | .1350765 | 392.07 | .1512398 | .255740 |
| %RSD | 487.9806 | 12.82199 | .5181114 | 22.70163 | .5748384 | 24.74614 | 12.98919 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.277476 | 57.59184 | 56.63786 | .7204776 | 68516.39 | .5439093 | 2.249391 |
| #2 | -.060321 | 55.64706 | 56.12709 | .6125141 | 68333.50 | .7843673 | 1.908514 |
| #3 | .1930269 | 45.02520 | 56.13832 | .4520317 | 67764.59 | .5052190 | 1.748707 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.106624 | .0622751 | -41.0867 | 4771.826 | 20744.90 | 300.0844 | 182225.8 |
| SDEV | .244330 | .0826483 | 12.0970 | 23.510 | 172.60 | 5.7360 | 1243.6 |
| %RSD | 11.59817 | 132.7150 | 29.44272 | .4926868 | .8319993 | 1.911448 | .6824301 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.251895 | .0622303 | -34.2207 | 4795.176 | 20905.27 | 306.6571 | 183330.0 |
| #2 | 2.243438 | -.020351 | -33.9849 | 4772.144 | 20767.18 | 297.5061 | 182468.8 |
| #3 | 1.824538 | .1449458 | -55.0545 | 4748.159 | 20562.24 | 296.0901 | 180878.7 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.933961 | 2.122491 | .9308320 | .6109299 | .8087740 | -.126243 | 1.273589 |
| SDEV | .200632 | .302655 | .1267461 | .5452094 | .7703188 | .822261 | 1.338139 |
| %RSD | 5.099989 | 14.25942 | 13.61643 | 89.24253 | 95.24524 | 651.3324 | 105.0683 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.103793 | 2.127343 | .7848532 | .7679932 | .3265179 | -.277777 | .4649328 |
| #2 | 3.985503 | 2.422690 | 1.012888 | .0044290 | 1.697175 | .7612456 | 2.818168 |
| #3 | 3.712586 | 1.817439 | .9947552 | 1.060368 | .4026287 | -.862197 | .5376673 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.152770 | 2.712146 | -.146525 | 1.916435 | -1.15053 | 2.285889 | -.836412 |
| SDEV | 1.872990 | 1.481244 | 1.703206 | 3.279093 | 1.88419 | .956093 | 1.996502 |
| %RSD | 87.00374 | 54.61521 | 1162.402 | 171.1038 | 163.7672 | 41.82588 | 238.6984 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3656921 | 4.418694 | -1.72157 | 5.508266 | -3.17097 | 2.246660 | -3.09255 |
| #2 | 4.101229 | 1.759606 | 1.660962 | 1.158070 | .5586472 | 1.350013 | .7020370 |
| #3 | 1.991388 | 1.958137 | -.378961 | -.917031 | -.839267 | 3.260992 | -.118727 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.712651 | -.296836 | 2704.911 |
| SDEV | .515737 | .160105 | 18.986 |
| %RSD | 30.11338 | 53.93738 | .7019187 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.594804 | -.269096 | 2687.467 |
| #2 | 2.277113 | -.152413 | 2702.133 |
| #3 | 1.266036 | -.468999 | 2725.133 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CRI

OPERATOR:

RUN TIME: 03/23/09 15:02:19

COMMENT: CRI

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.36434 | 418.3615 | 394.8895 | 10.21978 | -145.692 | 10.34106 | 99.17606 |
| SDEV | .08358 | 10.7921 | 5.4663 | .23391 | .840 | .39470 | 2.19643 |
| %RSD | .4104426 | 2.579605 | 1.384272 | 2.288843 | .5763240 | 3.816843 | 2.214682 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 20.46085 | 426.0498 | 400.0759 | 10.45225 | -144.742 | 10.71332 | 101.5167 |
| #2 | 20.31608 | 406.0240 | 389.1807 | 9.984444 | -146.335 | 9.927207 | 97.15999 |
| #3 | 20.31608 | 423.0107 | 395.4120 | 10.22266 | -145.998 | 10.38265 | 98.85147 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | NOCHECK | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|---------|----------|----------|
| VALUE | 20.00000 | 400.0000 | 400.0000 | 10.00000 | | 10.00000 | 100.0000 |
| RANGE | 10.00000 | 200.0000 | 200.0000 | 5.000000 | | 5.000000 | 50.00000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.23764 | 50.40696 | 274.9214 | 21.51705 | 2.364823 | 29.89248 | 36.11853 |
| SDEV | .91616 | .40668 | 6.3707 | 2.12598 | 1.442107 | .47187 | 41.32376 |
| %RSD | 4.527020 | .8068011 | 2.317285 | 9.880428 | 60.98160 | 1.578546 | 114.4115 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 21.07103 | 50.07672 | 281.3293 | 23.35626 | 3.196439 | 30.30768 | 80.65228 |
| #2 | 19.25663 | 50.86121 | 268.5886 | 19.18934 | .6996217 | 29.37932 | -.987878 |
| #3 | 20.38526 | 50.28293 | 274.8461 | 22.00555 | 3.198408 | 29.99044 | 28.69118 |

| ERRORS | QC PASS | QC PASS | QC PASS | NOCHECK | NOCHECK | QC PASS | NOCHECK |
|--------|----------|----------|----------|---------|---------|----------|---------|
| VALUE | 20.00000 | 50.00000 | 200.0000 | | | 30.00000 | |
| RANGE | 10.00000 | 25.00000 | 100.0000 | | | 15.00000 | |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 84.01080 | 19.13356 | 97.78761 | 41.32076 | 5.600387 | 8.558817 | 122.7204 |
| SDEV | 1.56825 | 3.23171 | 1.16567 | .78011 | .466567 | 1.241626 | 1.8459 |
| %RSD | 1.866724 | 16.89026 | 1.192045 | 1.887927 | 8.330977 | 14.50699 | 1.504130 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 85.81987 | 19.08547 | 99.01762 | 41.69226 | 5.962520 | 7.208272 | 124.3105 |
| #2 | 83.03652 | 15.92617 | 96.69922 | 40.42434 | 5.073879 | 9.650810 | 120.6962 |
| #3 | 83.17602 | 22.38905 | 97.64600 | 41.84568 | 5.764761 | 8.817369 | 123.1545 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 80.00000 | 20.00000 | 100.0000 | 40.00000 | 6.000000 | 10.00000 | 120.0000 |
| RANGE | 40.00000 | 10.00000 | 50.00000 | 20.00000 | 3.000000 | 5.000000 | 60.00000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 21.10326 | 4.738207 | 6.025421 | 9.211504 | 8.228635 | 46.57252 | 50.76141 |
| SDEV | 2.28895 | .304720 | .555124 | 1.672133 | 1.093486 | 2.34077 | 2.87188 |
| %RSD | 10.84644 | 6.431134 | 9.213036 | 18.15266 | 13.28879 | 5.026074 | 5.657614 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 20.72175 | 5.038488 | 6.418378 | 7.668823 | 6.973969 | 49.19604 | 51.83986 |
| #2 | 23.55899 | 4.429233 | 5.390363 | 10.98840 | 8.978736 | 45.82381 | 47.50642 |
| #3 | 19.02902 | 4.746900 | 6.267520 | 8.977295 | 8.733200 | 44.69769 | 52.93797 |

| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| VALUE | 20.00000 | | | | | 50.00000 | 50.00000 |
| RANGE | 10.00000 | | | | | 25.00000 | 25.00000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|-----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | Q48.14379 | 48.42223 | 2798.022 |
| SDEV | 1.16459 | .19010 | 27.940 |
| %RSD | 2.418984 | .3925962 | .9985675 |

| | | | |
|----|-----------|----------|----------|
| #1 | Q49.28496 | 48.52685 | 2769.733 |
| #2 | Q46.95711 | 48.20280 | 2825.600 |
| #3 | Q48.18931 | 48.53705 | 2798.733 |

| ERRORS | QC FAIL | QC PASS | NOCHECK |
|--------|----------|----------|---------|
| VALUE | 20.00000 | 50.00000 | |
| RANGE | 10.00000 | 25.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICSA

OPERATOR:

RUN TIME: 03/23/09 15:09:15

COMMENT: ICSA

MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.120642 | 243061.7 | 2.543026 | 1.153505 | 251633.9 | 4.449888 | 8.760195 |
| SDEV | .110570 | 3295.8 | .010028 | .191822 | 1580.4 | .384785 | .293284 |
| %RSD | 91.65151 | 1.355962 | .3943330 | 16.62948 | .6280467 | 8.647082 | 3.347920 |
| #1 | -.241284 | 239315.4 | 2.554567 | 1.092714 | 249846.9 | 4.886538 | 8.447021 |
| #2 | -.096513 | 245515.1 | 2.536442 | 1.368356 | 252207.1 | 4.302713 | 8.805169 |
| #3 | -.024128 | 244354.5 | 2.538069 | .9994447 | 252847.6 | 4.160412 | 9.028395 |
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | 244100.0 | 2.000000 | .0000000 | 234900.0 | .0000000 | 4.000000 |
| RANGE | 10.00000 | 48820.00 | 400.0000 | 10.00000 | 46980.00 | 10.00000 | 10.00000 |
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 44.67285 | 23.41863 | 96797.59 | 25.26143 | 253489.5 | 20.90164 | 980.5159 |
| SDEV | .45198 | .13764 | 707.59 | 1.27846 | 2309.3 | .19526 | 46.0160 |
| %RSD | 1.011753 | .5877247 | .7310036 | 5.060917 | .9109933 | .9341797 | 4.693042 |
| #1 | 44.66360 | 23.26700 | 96118.62 | 24.50137 | 251356.6 | 20.70500 | 934.0516 |
| #2 | 45.12939 | 23.53568 | 97530.70 | 26.73745 | 255941.9 | 21.09548 | 1026.070 |
| #3 | 44.22557 | 23.45321 | 96743.45 | 24.54547 | 253170.0 | 20.90444 | 981.4259 |
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 43.00000 | 23.00000 | 95600.00 | .0000000 | 247500.0 | 19.00000 | .0000000 |
| RANGE | 20.00000 | 10.00000 | 19120.00 | 2000.000 | 49500.00 | 20.00000 | 2000.000 |
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 23.32556 | 2.815063 | 1.008984 | 25.37067 | 9.896102 | -2.12073 | 6.489561 |
| SDEV | .29853 | 4.522770 | .396986 | .66194 | .940190 | 2.72657 | 3.106773 |
| %RSD | 1.279842 | 160.6632 | 39.34513 | 2.609066 | 9.500609 | 128.5673 | 47.87340 |
| #1 | 23.44128 | .6212921 | .6889629 | 25.96231 | 9.352424 | .7462259 | 10.06950 |
| #2 | 22.98649 | 8.016334 | .8847618 | 25.49395 | 10.98174 | -4.68097 | 4.899803 |
| #3 | 23.54890 | -.192436 | 1.453226 | 24.65576 | 9.354142 | -2.42745 | 4.499382 |
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 21.00000 | .0000000 | 1.000000 | 28.00000 | 10.00000 | .0000000 | .0000000 |
| RANGE | 10.00000 | 20.00000 | 40.00000 | 40.00000 | 6.000000 | 10.00000 | 20.00000 |
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.709335 | -6.83453 | 18.24316 | -.447180 | -2.96083 | -6.07527 | 7.088823 |
| SDEV | 1.877854 | 1.48864 | 1.18611 | 1.417833 | 3.58682 | 1.21855 | 2.538337 |
| %RSD | 264.7345 | 21.78112 | 6.501696 | 317.0607 | 121.1425 | 20.05751 | 35.80759 |
| #1 | .5934079 | -6.04790 | 17.03536 | .2256923 | 1.001556 | -6.22138 | 9.971494 |
| #2 | -2.86187 | -5.90422 | 19.40633 | -2.07617 | -5.98601 | -7.21417 | 6.106635 |
| #3 | .1404539 | -8.55145 | 18.28778 | .5089321 | -3.89803 | -4.79025 | 5.188342 |
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 20.00000 | | | | | 100.0000 | 100.0000 |
| ELEM | MO2020 | TI3349 | Y_3710 | | | | |
| UNITS | UG/L | UG/L | PPM | | | | |
| AVGE | -.302402 | -1.92813 | 2654.800 | | | | |
| SDEV | 1.794056 | .14264 | 13.631 | | | | |
| %RSD | 593.2695 | 7.397671 | .5134595 | | | | |
| #1 | 1.715289 | -1.78807 | 2670.533 | | | | |
| #2 | -.904639 | -1.92311 | 2647.333 | | | | |
| #3 | -1.71785 | -2.07321 | 2646.533 | | | | |
| ERRORS | QC PASS | QC PASS | NOCHECK | | | | |
| VALUE | .0000000 | .0000000 | | | | | |
| RANGE | 100.0000 | 100.0000 | | | | | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICSAB OPERATOR:

RUN TIME: 03/23/09 15:16:11

COMMENT: ICSAB

MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 203.4383 | 241435.5 | 499.8784 | 480.0701 | 248059.4 | 979.0578 | 484.8043 |
| SDEV | .7731 | 6064.8 | 9.6106 | 10.7756 | 5889.5 | 22.4447 | 13.2679 |
| %RSD | .3800350 | 2.511961 | 1.922581 | 2.244591 | 2.374230 | 2.292482 | 2.736756 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 202.8713 | 244100.1 | 501.1317 | 484.2047 | 250531.6 | 983.5179 | 491.4545 |
| #2 | 204.3190 | 245711.8 | 508.8009 | 488.1661 | 252310.0 | 998.9376 | 493.4320 |
| #3 | 203.1246 | 234494.6 | 489.7028 | 467.8395 | 241336.8 | 954.7179 | 469.5265 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 206.0000 | 241100.0 | 495.0000 | 475.0000 | 231100.0 | 940.0000 | 461.0000 |
| RANGE | 41.20000 | 48220.00 | 400.0000 | 95.00000 | 46220.00 | 188.0000 | 92.20000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 523.2381 | 546.0350 | 95854.67 | 23.13783 | 249984.6 | 509.9524 | 975.9552 |
| SDEV | 10.1617 | 2.7600 | 2075.06 | 1.85614 | 5173.7 | 12.5360 | 66.1792 |
| %RSD | 1.942084 | .5054552 | 2.164796 | 8.022107 | 2.069596 | 2.458264 | 6.780971 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 526.2739 | 546.7517 | 96496.15 | 23.23896 | 251132.1 | 514.9918 | 941.7351 |
| #2 | 531.5359 | 548.3659 | 97533.25 | 24.94134 | 254488.1 | 519.1845 | 1052.238 |
| #3 | 511.9044 | 542.9874 | 93534.62 | 21.23319 | 244333.5 | 495.6810 | 933.8924 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 511.0000 | 548.0000 | 94800.00 | .0000000 | 251100.0 | 502.0000 | .0000000 |
| RANGE | 102.2000 | 109.6000 | 18960.00 | 2000.000 | 50220.00 | 100.4000 | 2000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1003.072 | 103.8042 | 479.4384 | 989.0994 | 61.76483 | 48.16621 | 612.2917 |
| SDEV | 22.055 | 2.2617 | 10.0303 | 23.7509 | 1.40181 | 1.41371 | 15.0123 |
| %RSD | 2.198730 | 2.178799 | 2.092101 | 2.401263 | 2.269598 | 2.935073 | 2.451824 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1004.589 | 101.5419 | 480.6837 | 991.8382 | 61.70401 | 47.71859 | 613.7015 |
| #2 | 1024.329 | 106.0653 | 488.7880 | 1011.362 | 63.19607 | 49.74955 | 626.5494 |
| #3 | 980.2974 | 103.8054 | 468.8436 | 964.0978 | 60.39442 | 47.03049 | 596.6242 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 984.0000 | 103.0000 | 494.0000 | 1028.000 | 61.00000 | 53.00000 | 589.0000 |
| RANGE | 196.8000 | 20.60000 | 98.80000 | 205.6000 | 12.20000 | 10.60000 | 117.8000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 102.4559 | 44.85416 | 70.20239 | 52.45249 | 46.02175 | 976.7649 | 1020.941 |
| SDEV | 4.2909 | 1.89158 | 2.95415 | 4.73646 | .52809 | 25.4500 | 18.591 |
| %RSD | 4.188055 | 4.217188 | 4.208048 | 9.030007 | 1.147487 | 2.605537 | 1.820945 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 100.7936 | 46.03413 | 69.52205 | 52.07817 | 45.53750 | 980.0820 | 1024.346 |
| #2 | 107.3292 | 42.67237 | 73.43735 | 57.36500 | 45.94292 | 1000.394 | 1037.593 |
| #3 | 99.24477 | 45.85599 | 67.64776 | 47.91429 | 46.58483 | 949.8190 | 1000.883 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 101.0000 | | | | | 1000.000 | 1000.000 |
| RANGE | 20.20000 | | | | | 200.0000 | 200.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 958.6590 | 964.4649 | 2678.111 |
| SDEV | 19.0554 | 23.1630 | 56.593 |
| %RSD | 1.987719 | 2.401648 | 2.113179 |

| | | | |
|----|----------|----------|----------|
| #1 | 951.4452 | 976.5664 | 2652.867 |
| #2 | 980.2681 | 979.0707 | 2638.533 |
| #3 | 944.2636 | 937.7576 | 2742.933 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 200.0000 | 200.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV

OPERATOR:

RUN TIME: 03/23/09 15:23:08

COMMENT: CCV CVS1

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 100.7600 | 49821.80 | 987.8970 | 1002.907 | 50790.53 | 1011.550 | 989.5093 |
| SDEV | .2925 | 237.34 | 4.6887 | 4.186 | 199.59 | 2.833 | 3.5145 |
| %RSD | .2903403 | .4763875 | .4746182 | .4173542 | .3929589 | .2801090 | .3551740 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 100.5911 | 49619.82 | 982.9878 | 999.3139 | 50586.76 | 1014.166 | 987.6605 |
| #2 | 101.0978 | 49762.36 | 992.3288 | 1007.503 | 50985.65 | 1011.944 | 993.5623 |
| #3 | 100.5911 | 50083.21 | 988.3745 | 1001.903 | 50799.18 | 1008.540 | 987.3051 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1004.825 | 1023.772 | 24752.63 | 52041.33 | 49499.57 | 993.1930 | 50813.17 |
| SDEV | 2.025 | 2.883 | 43.89 | 165.12 | 74.17 | 3.2327 | 162.84 |
| %RSD | .2015091 | .2815796 | .1773097 | .3172804 | .1498440 | .3254883 | .3204633 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1003.803 | 1021.292 | 24708.68 | 51925.88 | 49454.50 | 994.1809 | 50633.93 |
| #2 | 1007.158 | 1023.090 | 24796.46 | 52230.46 | 49585.17 | 995.8165 | 50952.00 |
| #3 | 1003.516 | 1026.935 | 24752.76 | 51967.64 | 49459.02 | 989.5816 | 50853.59 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1008.931 | 1009.554 | 983.4861 | 1115.879 | 1001.006 | 1015.150 | 1021.122 |
| SDEV | 3.464 | 2.799 | 3.3766 | 2.425 | 4.245 | 8.009 | 2.976 |
| %RSD | .3432909 | .2772931 | .3433322 | .2173388 | .4240715 | .7889004 | .2914273 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1011.896 | 1006.665 | 980.8664 | 1115.873 | 999.2596 | 1019.828 | 1022.611 |
| #2 | 1009.774 | 1009.742 | 982.2952 | 1118.308 | 1005.846 | 1019.719 | 1023.060 |
| #3 | 1005.124 | 1012.255 | 987.2969 | 1113.457 | 997.9128 | 1005.903 | 1017.696 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1009.909 | 992.7823 | 1005.106 | 1027.546 | 1008.957 | 1004.145 | 1021.865 |
| SDEV | 4.695 | 2.3101 | 6.036 | 1.353 | 11.581 | 5.516 | 5.869 |
| %RSD | .4648918 | .2326861 | .6004889 | .1316603 | 1.147806 | .5493215 | .5743900 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1010.115 | 990.1151 | 1003.819 | 1027.031 | 1016.227 | 1004.027 | 1025.421 |
| #2 | 1014.497 | 994.1456 | 1011.681 | 1029.081 | 1015.041 | 1009.718 | 1025.083 |
| #3 | 1005.114 | 994.0863 | 999.8171 | 1026.526 | 995.6020 | 998.6884 | 1015.090 |

| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 992.1999 | 988.9194 | 2761.000 |
| SDEV | 4.6246 | 4.9238 | 10.049 |
| %RSD | .4660983 | .4978926 | .3639786 |

| | | | |
|----|----------|----------|----------|
| #1 | 988.1922 | 986.8271 | 2754.933 |
| #2 | 997.2601 | 994.5438 | 2755.467 |
| #3 | 991.1476 | 985.3873 | 2772.600 |

| ERRORS | QC PASS | QC PASS | NOCHECK |
|--------|----------|----------|---------|
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB OPERATOR:
 RUN TIME: 03/23/09 15:30:06
 COMMENT: CCB
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.108578 | 30.34122 | .0274941 | .4288776 | -200.765 | .3351826 | .2487510 |
| SDEV | .091083 | 8.16483 | .0189811 | .1157028 | 2.036 | .2064713 | .7329121 |
| %RSD | 83.88705 | 26.91003 | 69.03687 | 26.97806 | 1.013910 | 61.59966 | 294.6368 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.096513 | 25.39841 | .0055801 | .4135531 | -202.001 | .4305668 | -.287191 |
| #2 | -.205091 | 25.85986 | .0381145 | .3216006 | -201.880 | .0982636 | -.050495 |
| #3 | -.024128 | 39.76539 | .0387878 | .5514790 | -198.416 | .4767175 | 1.083939 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .8488556 | -.268571 | 16.55793 | 20.99267 | 12.82653 | .0575674 | 73.34581 |
| SDEV | .3498661 | .309967 | 7.29224 | 2.71938 | 5.33147 | .1267729 | 47.30581 |
| %RSD | 41.21622 | 115.4134 | 44.04075 | 12.95397 | 41.56597 | 220.2164 | 64.49696 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.007185 | .0413893 | 13.34285 | 19.03318 | 7.710365 | .0287463 | 19.54417 |
| #2 | .4478133 | -.578544 | 11.42573 | 19.84747 | 12.41927 | -.052314 | 92.06871 |
| #3 | 1.091568 | -.268558 | 24.90522 | 24.09735 | 18.34995 | .1962695 | 108.4245 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0915148 | 1.510261 | .1616652 | .0696242 | .7073433 | -.534926 | 1.489410 |
| SDEV | .4987713 | 2.162520 | .0686212 | .6041202 | .4508195 | 2.011775 | 2.031094 |
| %RSD | 545.0170 | 143.1885 | 42.44646 | 867.6877 | 63.73418 | 376.0850 | 136.3690 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.467211 | 3.318516 | .1966396 | -.278324 | 1.209396 | .8506964 | 1.635049 |
| #2 | .4918826 | -.885226 | .0826032 | -.280005 | .5754611 | -2.84244 | -.610583 |
| #3 | .2498725 | 2.097494 | .2057528 | .7672014 | .3371727 | .3869700 | 3.443766 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .8740459 | -1.21376 | 1.661512 | 1.053349 | -1.33226 | -.864651 | 1.099527 |
| SDEV | 1.199309 | 1.97945 | .334978 | 2.934912 | 1.55391 | .882188 | .524005 |
| %RSD | 137.2135 | 163.0844 | 20.16101 | 278.6267 | 116.6368 | 102.0282 | 47.65730 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2084361 | .8771746 | 1.370341 | 2.947513 | -.200511 | .0618562 | 1.703286 |
| #2 | .1551550 | -1.45971 | 1.586588 | -2.32742 | -3.10396 | -.961238 | .8321010 |
| #3 | 2.258546 | -3.05874 | 2.027608 | 2.539949 | -.692326 | -1.69457 | .7631933 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.120010 | .4157032 | 2756.867 |
| SDEV | .734856 | .2640977 | 15.895 |
| %RSD | 23.55300 | 63.53035 | .5765624 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.942342 | .4010884 | 2770.333 |
| #2 | 2.890063 | .1592164 | 2760.933 |
| #3 | 2.527625 | .6868049 | 2739.333 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-05 OPERATOR:
 RUN TIME: 03/23/09 15:37:03
 COMMENT: SDG:0903067 CLIENTID:2EAM147 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1447702 | 125.4815 | 331.0908 | .9491312 | 177749.9 | 1.520582 | 9.167065 |
| SDEV | .2120690 | 5.8118 | 2.2645 | .1198746 | 2389.8 | .133461 | .358303 |
| %RSD | 146.4866 | 4.631589 | .6839446 | 12.62993 | 1.344460 | 8.776979 | 3.908588 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3016045 | 127.7087 | 328.7574 | 1.059928 | 175096.0 | 1.528419 | 8.775218 |
| #2 | .2292194 | 118.8856 | 333.2794 | .8218792 | 179731.7 | 1.649952 | 9.247995 |
| #3 | -.096513 | 129.8504 | 331.2356 | .9655862 | 178421.9 | 1.383375 | 9.477980 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|-----------|----------|----------|-----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6035404 | 2.087331 | -94.2687 | H609414.8 | 124612.9 | 371.4654 | H628980.6 |
| SDEV | .1709320 | .074492 | 7.8142 | 7231.6 | 917.2 | 4.0191 | 3300.7 |
| %RSD | 28.32155 | 3.568775 | 8.289256 | 1.186653 | .7360427 | 1.081970 | .5247707 |

| | | | | | | | |
|----|----------|----------|-----------|-----------|----------|----------|-----------|
| #1 | .6037490 | 2.108029 | L-100.783 | H601232.1 | 123556.5 | 366.8849 | H625186.6 |
| #2 | .7743680 | 2.149285 | -96.4182 | H612064.1 | 125075.3 | 374.4022 | H631191.9 |
| #3 | .4325042 | 2.004678 | -85.6047 | H614948.1 | 125206.9 | 373.1091 | H630563.2 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC HIGH | LC PASS | LC PASS | LC HIGH |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 70.86037 | -1.76923 | 1.168207 | -1.50002 | -.548634 | -.314271 | 1.150198 |
| SDEV | .79970 | .87832 | .116949 | .39708 | 1.056731 | 1.831971 | .138267 |
| %RSD | 1.128559 | 49.64423 | 10.01096 | 26.47193 | 192.6112 | 582.9271 | 12.02114 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 71.38736 | -.926241 | 1.283179 | -1.95027 | .5310647 | -2.42952 | 1.132853 |
| #2 | 69.94019 | -2.67907 | 1.049377 | -1.34997 | -.596175 | .7634975 | 1.021421 |
| #3 | 71.25356 | -1.70240 | 1.172064 | -1.19983 | -1.58079 | .7232104 | 1.296318 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.261490 | 1.281205 | -1.46744 | 2.259903 | -1.60410 | 1.881811 | 1.805744 |
| SDEV | 2.902888 | 3.119425 | 3.14117 | 1.448858 | 2.05628 | .126410 | 1.375024 |
| %RSD | 68.11908 | 243.4759 | 214.0574 | 64.11151 | 128.1887 | 6.717476 | 76.14719 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 6.213045 | -1.84298 | 1.711063 | .6390274 | -3.96616 | 1.934897 | 1.637975 |
| #2 | 5.645867 | 1.290744 | -1.54349 | 2.711507 | -.213735 | 1.973021 | 3.256955 |
| #3 | .9255574 | 4.395849 | -4.56990 | 3.429174 | -.632423 | 1.737514 | .5223030 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 12.07902 | -1.33670 | 2593.600 |
| SDEV | 1.11685 | .06188 | 7.574 |
| %RSD | 9.246244 | 4.629340 | .2920245 |

| | | | |
|----|----------|----------|----------|
| #1 | 13.34851 | -1.40462 | 2601.800 |
| #2 | 11.24768 | -1.32199 | 2586.867 |
| #3 | 11.64085 | -1.28351 | 2592.133 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903067-05 3X OPERATOR:
 RUN TIME: 03/23/09 15:43:59
 COMMENT: SDG:0903067 CLIENTID:2EAM147 1:3
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.084449 | 56.97937 | 111.8977 | .5508642 | 60379.98 | .7293071 | 3.682927 |
| SDEV | .167166 | 4.37454 | .5300 | .0628634 | 183.72 | .1070283 | .190452 |
| %RSD | 197.9487 | 7.677414 | .4736801 | 11.41179 | .3042782 | 14.67534 | 5.171201 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.277476 | 57.70564 | 112.3142 | .5637532 | 60539.32 | .6650044 | 3.574543 |
| #2 | .0120642 | 52.28715 | 111.3011 | .4825552 | 60179.01 | .6700586 | 3.571405 |
| #3 | .0120642 | 60.94533 | 112.0779 | .6062842 | 60421.60 | .8528582 | 3.902834 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.045862 | .7439115 | -77.5460 | 215845.0 | 41813.12 | 126.0474 | 236676.9 |
| SDEV | .503305 | .5190480 | 8.8566 | 880.5 | 106.03 | 1.2900 | 749.4 |
| %RSD | 48.12342 | 69.77281 | 11.42108 | .4079128 | .2535722 | 1.023429 | .3166285 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .9369343 | 1.343138 | -72.8226 | 216861.6 | 41879.86 | 126.5464 | 237523.6 |
| #2 | .6059411 | .4546412 | -87.7630 | 215336.2 | 41690.87 | 124.5824 | 236099.0 |
| #3 | 1.594711 | .4339558 | -72.0524 | 215337.1 | 41868.65 | 127.0133 | 236408.1 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 24.58972 | -2.74243 | .1041989 | .7068528 | 1.320005 | -.602398 | 1.086407 |
| SDEV | .57310 | 1.53628 | .0634566 | .4960053 | .669012 | 1.780620 | 1.771554 |
| %RSD | 2.330639 | 56.01896 | 60.89946 | 70.17094 | 50.68252 | 295.5886 | 163.0653 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 24.97069 | -2.75845 | .0681474 | 1.072457 | 1.687967 | -.206279 | .9105707 |
| #2 | 23.93063 | -4.27065 | .1774691 | .1422505 | .5477810 | .9468046 | -.590671 |
| #3 | 24.86783 | -1.19821 | .0669802 | .9058511 | 1.724268 | -2.54772 | 2.939322 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.142273 | .2683221 | 1.839971 | .0710828 | -.943155 | -1.15168 | .2382306 |
| SDEV | .914945 | .8466991 | 1.157946 | 1.942050 | 1.895976 | 3.75849 | .3778345 |
| %RSD | 29.11728 | 315.5532 | 62.93280 | 2732.098 | 201.0248 | 326.3494 | 158.6003 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.531324 | -.662382 | 2.856268 | 1.552655 | -1.08897 | .0240208 | .3668058 |
| #2 | 3.798397 | .4743648 | .5793645 | .7881260 | 1.021519 | -5.35747 | .5349973 |
| #3 | 2.097099 | .9929837 | 2.084282 | -2.12753 | -2.76201 | 1.878423 | -.187111 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.676194 | -.260258 | 2680.133 |
| SDEV | 1.380866 | .044337 | 11.469 |
| %RSD | 37.56240 | 17.03563 | .4279216 |

| | | | |
|----|----------|----------|----------|
| #1 | 5.137053 | -.309528 | 2667.200 |
| #2 | 2.392401 | -.223579 | 2689.066 |
| #3 | 3.499128 | -.247667 | 2684.133 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031304-BLK1 OPERATOR:
 RUN TIME: 03/23/09 15:50:55
 COMMENT: SDG:0903067 CLIENTID:PBW 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.217155 | 33.12145 | -.050285 | .6311818 | -205.542 | .1471991 | .3260349 |
| SDEV | .041792 | 2.63521 | .023772 | .0525266 | .282 | .2352817 | .6032863 |
| %RSD | 19.24501 | 7.956197 | 47.27365 | 8.321945 | .1373889 | 159.8390 | 185.0374 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.241284 | 33.93094 | -.056803 | .6730082 | -205.709 | .1533180 | .6716633 |
| #2 | -.168899 | 30.17646 | -.070118 | .6483074 | -205.700 | .3793617 | .6770146 |
| #3 | -.241284 | 35.25696 | -.023934 | .5722297 | -205.216 | -.091082 | -.370573 |

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |
| LOW | -5.000000 | -200.0000 | -200.0000 | -5.000000 | -5000.000 | -5.000000 | -5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .5241749 | -.165302 | 15.99842 | 34.96580 | 4.685860 | .0608497 | 148.4377 |
| SDEV | .1637223 | .115035 | 6.30347 | 2.18441 | 1.631265 | .0504877 | 14.7334 |
| %RSD | 31.23429 | 69.59068 | 39.40057 | 6.247272 | 34.81251 | 82.97116 | 9.925609 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5241792 | -.185978 | 13.37235 | 34.17499 | 5.270969 | .0352379 | 163.4397 |
| #2 | .3604505 | -.041332 | 23.19037 | 33.28693 | 2.842737 | .1190102 | 133.9886 |
| #3 | .6878951 | -.268598 | 11.43256 | 37.43547 | 5.943874 | .0283011 | 147.8850 |

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |
| LOW | -5.000000 | -5.000000 | -100.0000 | -5000.000 | -5000.000 | -10.00000 | -5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.062730 | -.950772 | .0108431 | 3.581270 | .4705780 | -.218791 | .3808859 |
| SDEV | .705026 | 1.405612 | .0608215 | .334306 | .3191466 | 2.254311 | 2.754130 |
| %RSD | 1123.908 | 147.8390 | 560.9207 | 9.334833 | 67.82012 | 1030.348 | 723.0854 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.837748 | .6359693 | -.025771 | 3.211949 | .5999135 | -1.22316 | 2.411137 |
| #2 | .5405856 | -1.44845 | -.022751 | 3.668660 | .1070645 | 2.363141 | -2.75410 |
| #3 | .1089726 | -2.03983 | .0810521 | 3.863201 | .7047561 | -1.79636 | 1.485617 |

| | | | | | | | |
|--------|------------|------------|------------|------------|-----------|-----------|------------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 40.000000 | 10.000000 | 20.000000 | 20.000000 | 3.000000 | 5.000000 | 10.000000 |
| LOW | -40.000000 | -10.000000 | -20.000000 | -20.000000 | -3.000000 | -5.000000 | -10.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.071662 | -.103589 | .7522304 | 1.068498 | -.865916 | .5307141 | .9766977 |
| SDEV | 1.395889 | .378635 | .2977445 | 2.447854 | 2.369365 | 2.343918 | .3989420 |
| %RSD | 1947.883 | 365.5165 | 39.58155 | 229.0931 | 273.6253 | 441.6536 | 40.84600 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.67663 | -.048395 | .9185345 | 1.323581 | -2.49911 | .0187585 | 1.151112 |
| #2 | .6021627 | -.506792 | .4084848 | 3.378822 | 1.851575 | 3.088296 | .5202489 |
| #3 | .8594860 | .2444194 | .9296719 | -1.49691 | -1.95022 | -1.51491 | 1.258732 |

| | | | | | | | |
|--------|-----------|---------|---------|---------|---------|-----------|-----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10.00000 | | | | | 100.0000 | 50.00000 |
| LOW | -10.00000 | | | | | -100.0000 | -50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .1865788 | .1319487 | 2724.511 |
| SDEV | .4412791 | .0355417 | 43.899 |
| %RSD | 236.5108 | 26.93601 | 1.611255 |

| | | | |
|----|----------|----------|----------|
| #1 | .3899371 | .1726081 | 2699.467 |
| #2 | .4895123 | .1164485 | 2698.867 |
| #3 | -.319713 | .1067895 | 2775.200 |

| | | | |
|--------|-----------|-----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 5.000000 | 40.00000 | |
| LOW | -5.000000 | -40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CRI

OPERATOR:

RUN TIME: 03/23/09 15:58:53

COMMENT: CRI

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.06273 | 438.5039 | 401.1791 | 10.59332 | -144.579 | 10.66784 | 102.2294 |
| SDEV | .13049 | 21.6553 | 10.8739 | .50801 | .504 | .58027 | 3.2540 |
| %RSD | .6504286 | 4.938442 | 2.710496 | 4.795579 | .3486320 | 5.439395 | 3.183057 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 20.17131 | 463.4789 | 413.6536 | 11.17694 | -144.953 | 11.33061 | 105.8354 |
| #2 | 20.09893 | 424.9499 | 393.7040 | 10.25039 | -144.778 | 10.25124 | 99.51207 |
| #3 | 19.91796 | 427.0830 | 396.1795 | 10.35262 | -144.006 | 10.42168 | 101.3407 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | NOCHECK | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|---------|----------|----------|
| VALUE | 20.00000 | 400.0000 | 400.0000 | 10.00000 | | 10.00000 | 100.0000 |
| RANGE | 10.00000 | 200.0000 | 200.0000 | 5.000000 | | 5.000000 | 50.00000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 20.91771 | 50.56609 | 286.4580 | 27.68255 | 4.549517 | 30.46896 | 118.8136 |
| SDEV | .18710 | .13233 | 4.7207 | .34838 | 1.331439 | .53615 | 40.8293 |
| %RSD | .8944761 | .2617022 | 1.647959 | 1.258494 | 29.26551 | 1.759659 | 34.36419 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 21.00327 | 50.47049 | 291.0280 | 27.85636 | 4.510121 | 31.02161 | 160.8484 |
| #2 | 20.70312 | 50.71712 | 281.5998 | 27.28145 | 3.238212 | 29.95100 | 79.30720 |
| #3 | 21.04672 | 50.51065 | 286.7461 | 27.90983 | 5.900217 | 30.43428 | 116.2853 |

| ERRORS | QC PASS | QC PASS | QC PASS | NOCHECK | NOCHECK | QC PASS | NOCHECK |
|--------|----------|----------|----------|---------|---------|----------|---------|
| VALUE | 20.00000 | 50.00000 | 200.0000 | | | 30.00000 | |
| RANGE | 10.00000 | 25.00000 | 100.0000 | | | 15.00000 | |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 85.84250 | 19.22997 | 100.1121 | 42.18326 | 7.911889 | 8.380076 | 124.8999 |
| SDEV | 1.33452 | 3.16368 | 2.3617 | .48581 | .889155 | 1.342116 | 3.4151 |
| %RSD | 1.554611 | 16.45184 | 2.359038 | 1.151661 | 11.23821 | 16.01556 | 2.734266 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 87.34606 | 18.71510 | 102.8228 | 42.74275 | 6.958058 | 9.920690 | 128.7693 |
| #2 | 84.79846 | 16.35530 | 98.49834 | 41.86828 | 8.059787 | 7.755223 | 123.6239 |
| #3 | 85.38298 | 22.61950 | 99.01525 | 41.93876 | 8.717820 | 7.464315 | 122.3066 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 80.00000 | 20.00000 | 100.0000 | 40.00000 | 6.000000 | 10.00000 | 120.0000 |
| RANGE | 40.00000 | 10.00000 | 50.00000 | 20.00000 | 3.000000 | 5.000000 | 60.00000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 22.78591 | 7.793225 | 7.965808 | 8.741829 | 8.195068 | 48.78945 | 50.73827 |
| SDEV | .79840 | 3.157443 | 2.884876 | 2.441911 | 1.266681 | 2.08204 | 1.58902 |
| %RSD | 3.503917 | 40.51523 | 36.21573 | 27.93363 | 15.45663 | 4.267397 | 3.131795 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 23.28463 | 11.41413 | 4.727742 | 10.80452 | 9.474943 | 46.52520 | 51.20573 |
| #2 | 21.86506 | 6.351895 | 8.907565 | 9.375396 | 6.942006 | 49.22174 | 48.96795 |
| #3 | 23.20805 | 5.613653 | 10.26212 | 6.045577 | 8.168255 | 50.62141 | 52.04112 |

| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| VALUE | 20.00000 | | | | | 50.00000 | 50.00000 |
| RANGE | 10.00000 | | | | | 25.00000 | 25.00000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|-----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | Q48.41266 | 49.34236 | 2751.133 |
| SDEV | 1.57570 | .71557 | 50.910 |
| %RSD | 3.254727 | 1.450207 | 1.850498 |

| | | | |
|----|-----------|----------|----------|
| #1 | Q50.13342 | 50.15983 | 2692.933 |
| #2 | Q47.04036 | 48.82950 | 2787.400 |
| #3 | Q48.06418 | 49.03775 | 2773.066 |

| ERRORS | QC FAIL | QC PASS | NOCHECK |
|--------|----------|----------|---------|
| VALUE | 20.00000 | 50.00000 | |
| RANGE | 10.00000 | 25.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICSA
 RUN TIME: 03/23/09 16:05:49
 COMMENT: ICSA
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0361925 | 245478.5 | 2.572136 | 1.290958 | 252935.3 | 4.325738 | 9.030661 |
| SDEV | .1163427 | 1059.2 | .059176 | .162333 | 917.7 | .158763 | .128672 |
| %RSD | 321.4550 | .4314926 | 2.300655 | 12.57459 | .3628131 | 3.670187 | 1.424838 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0844493 | 245030.2 | 2.599094 | 1.171200 | 253975.2 | 4.145077 | 8.991871 |
| #2 | .1206418 | 244717.2 | 2.613033 | 1.475718 | 252238.9 | 4.443026 | 9.174265 |
| #3 | -.096513 | 246688.2 | 2.504281 | 1.225955 | 252591.9 | 4.389113 | 8.925845 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | 244100.0 | 2.000000 | .0000000 | 234900.0 | .0000000 | 4.000000 |
| RANGE | 10.00000 | 48820.00 | 400.0000 | 10.00000 | 46980.00 | 10.00000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 44.51285 | 23.56325 | 97366.66 | 29.56798 | 254995.4 | 20.90664 | 968.0554 |
| SDEV | .20507 | .19204 | 265.87 | 3.71660 | 633.0 | .24995 | 114.8179 |
| %RSD | .4607092 | .8150003 | .2730644 | 12.56969 | .2482393 | 1.195576 | 11.86068 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 44.36731 | 23.61864 | 97432.45 | 33.01213 | 254926.4 | 20.64709 | 1088.303 |
| #2 | 44.42384 | 23.34960 | 97593.48 | 30.06322 | 255660.0 | 21.14575 | 956.2890 |
| #3 | 44.74739 | 23.72150 | 97074.08 | 25.62858 | 254399.7 | 20.92707 | 859.5737 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 43.00000 | 23.00000 | 95600.00 | .0000000 | 247500.0 | 19.00000 | .0000000 |
| RANGE | 20.00000 | 10.00000 | 19120.00 | 2000.000 | 49500.00 | 20.00000 | 2000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 22.92798 | 2.445061 | .9334698 | 25.68673 | 9.361116 | -5.09762 | 5.971219 |
| SDEV | .65236 | 2.658285 | .8189676 | .67205 | .436971 | 2.45340 | 1.260770 |
| %RSD | 2.845257 | 108.7206 | 87.73370 | 2.616338 | 4.667938 | 48.12828 | 21.11411 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 22.21864 | 5.421944 | 1.877283 | 24.95742 | 9.404571 | -3.66747 | 4.665669 |
| #2 | 23.50220 | .3084640 | .5127506 | 25.82174 | 8.904041 | -3.69488 | 6.066143 |
| #3 | 23.06311 | 1.604774 | .4103756 | 26.28103 | 9.774736 | -7.93052 | 7.181842 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 21.00000 | .0000000 | 1.000000 | 28.00000 | 10.00000 | .0000000 | .0000000 |
| RANGE | 10.00000 | 20.00000 | 40.00000 | 40.00000 | 6.000000 | 10.00000 | 20.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.176317 | -5.71895 | 16.88410 | -4.99077 | -5.15557 | -5.67809 | 4.985308 |
| SDEV | 2.842274 | 1.70545 | 1.23660 | 4.32201 | 2.95091 | 3.83834 | 1.809933 |
| %RSD | 1612.027 | 29.82104 | 7.324044 | 86.60017 | 57.23732 | 67.59927 | 36.30534 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.506345 | -3.92814 | 16.05519 | -.030657 | -5.48774 | -1.25154 | 3.812283 |
| #2 | .1197331 | -5.90490 | 16.29165 | -6.99356 | -2.05263 | -7.69864 | 7.069775 |
| #3 | -3.15503 | -7.32380 | 18.30546 | -7.94808 | -7.92633 | -8.08408 | 4.073866 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 20.00000 | | | | | 100.0000 | 100.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .0448386 | -1.95815 | 2642.600 |
| SDEV | .4584164 | .13349 | 7.984 |
| %RSD | 1022.371 | 6.817235 | .3021117 |

| | | | |
|----|----------|----------|----------|
| #1 | .5201370 | -2.06521 | 2643.200 |
| #2 | -.394588 | -1.80858 | 2634.333 |
| #3 | .0089667 | -2.00066 | 2650.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 100.0000 | 100.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICSAB
 RUN TIME: 03/23/09 16:12:46
 COMMENT: ICSAB
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 203.2573 | 243552.4 | 504.2817 | 483.9993 | 249756.9 | 991.7805 | 491.9405 |
| SDEV | 1.2403 | 1009.3 | 6.1440 | 2.7906 | 1328.5 | 5.1432 | 2.5457 |
| %RSD | .6101940 | .4144067 | 1.218370 | .5765752 | .5319271 | .5185782 | .5174874 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 201.8941 | 244292.3 | 510.5561 | 485.7255 | 249499.4 | 992.9636 | 492.4222 |
| #2 | 203.5589 | 242402.7 | 498.2770 | 480.7798 | 248576.0 | 986.1489 | 489.1884 |
| #3 | 204.3190 | 243962.3 | 504.0120 | 485.4926 | 251195.4 | 996.2291 | 494.2110 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 206.0000 | 241100.0 | 495.0000 | 475.0000 | 231100.0 | 940.0000 | 461.0000 |
| RANGE | 41.20000 | 48220.00 | 400.0000 | 95.00000 | 46220.00 | 188.0000 | 92.20000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 529.0093 | 547.2966 | 97125.49 | 24.33957 | 253552.5 | 515.8865 | 1011.916 |
| SDEV | 3.9341 | 1.2706 | 506.38 | 2.16570 | 968.2 | 3.7780 | 21.562 |
| %RSD | .7436661 | .2321616 | .5213709 | 8.897853 | .3818389 | .7323273 | 2.130788 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 527.8185 | 547.4758 | 97187.01 | 23.55868 | 254024.1 | 516.6772 | 997.1470 |
| #2 | 525.8083 | 545.9460 | 96591.16 | 26.78741 | 252438.9 | 511.7758 | 1036.659 |
| #3 | 533.4013 | 548.4682 | 97598.31 | 22.67260 | 254194.5 | 519.2066 | 1001.942 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 511.0000 | 548.0000 | 94800.00 | .0000000 | 251100.0 | 502.0000 | .0000000 |
| RANGE | 102.2000 | 109.6000 | 18960.00 | 2000.000 | 50220.00 | 100.4000 | 2000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1019.497 | 106.1559 | 483.3194 | 999.1129 | 60.42131 | 49.51421 | 621.9169 |
| SDEV | 5.935 | 5.6246 | 2.0365 | 5.4783 | .51786 | 2.74547 | 4.9556 |
| %RSD | .5821151 | 5.298450 | .4213499 | .5483204 | .8570765 | 5.544818 | .7968317 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1020.092 | 102.1117 | 483.4489 | 995.1681 | 59.84856 | 52.67966 | 625.1118 |
| #2 | 1013.288 | 103.7769 | 481.2212 | 996.8027 | 60.55888 | 48.08167 | 616.2081 |
| #3 | 1025.112 | 112.5791 | 485.2879 | 1005.368 | 60.85650 | 47.78130 | 624.4307 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 984.0000 | 103.0000 | 494.0000 | 1028.000 | 61.00000 | 53.00000 | 589.0000 |
| RANGE | 196.8000 | 20.60000 | 98.80000 | 205.6000 | 12.20000 | 10.60000 | 117.8000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 103.8181 | 46.22338 | 67.50447 | 57.34343 | 45.60087 | 989.5856 | 1037.451 |
| SDEV | 2.1604 | 1.91583 | 1.59000 | 7.67554 | 1.81436 | 1.3231 | 4.232 |
| %RSD | 2.080993 | 4.144713 | 2.355404 | 13.38522 | 3.978778 | .1337010 | .4079335 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 105.7338 | 48.13077 | 65.69347 | 65.07915 | 46.48459 | 990.5911 | 1042.226 |
| #2 | 104.2441 | 44.29922 | 68.67137 | 57.22162 | 43.51397 | 990.0791 | 1034.163 |
| #3 | 101.4764 | 46.24014 | 68.14856 | 49.72951 | 46.80407 | 988.0867 | 1035.965 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 101.0000 | | | | | 1000.000 | 1000.000 |
| RANGE | 20.20000 | | | | | 200.0000 | 200.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 975.6861 | 971.4202 | 2643.977 |
| SDEV | 10.0556 | .6394 | 16.452 |
| %RSD | 1.030618 | .0658228 | .6222628 |

| | | | |
|----|----------|----------|----------|
| #1 | 970.6591 | 972.1586 | 2625.467 |
| #2 | 969.1353 | 971.0548 | 2656.933 |
| #3 | 987.2639 | 971.0474 | 2649.533 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 200.0000 | 200.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV

OPERATOR:

RUN TIME: 03/23/09 16:19:43

COMMENT: CCV CVS1

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 100.7480 | 50135.09 | 993.5198 | 1009.068 | 50867.82 | 1016.559 | 990.6254 |
| SDEV | .1710 | 378.36 | 6.1217 | 2.545 | 249.65 | 4.773 | 9.2547 |
| %RSD | .1697684 | .7546785 | .6161642 | .2522003 | .4907894 | .4695583 | .9342309 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 100.8083 | 49796.93 | 1000.004 | 1011.354 | 50791.57 | 1016.959 | 983.5730 |
| #2 | 100.5550 | 50064.60 | 992.7159 | 1006.326 | 50665.18 | 1011.598 | 987.1984 |
| #3 | 100.8807 | 50543.73 | 987.8397 | 1009.524 | 51146.71 | 1021.119 | 1001.105 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1003.932 | 1025.473 | 24851.90 | 52686.08 | 49645.43 | 995.2211 | 51158.07 |
| SDEV | 10.118 | 4.849 | 214.95 | 215.77 | 365.95 | 9.7815 | 393.38 |
| %RSD | 1.007874 | .4728676 | .8649132 | .4095414 | .7371212 | .9828436 | .7689530 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1000.253 | 1020.052 | 24773.23 | 52437.93 | 49506.03 | 989.2540 | 50870.65 |
| #2 | 996.1681 | 1026.973 | 24687.37 | 52790.82 | 49369.68 | 989.8996 | 50997.16 |
| #3 | 1015.375 | 1029.396 | 25095.10 | 52829.50 | 50060.59 | 1006.510 | 51606.39 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1013.462 | 1020.636 | 984.0158 | 1120.316 | 1010.905 | 1025.080 | 1029.540 |
| SDEV | 4.001 | 5.202 | 9.4065 | 7.959 | 6.897 | 5.632 | 5.104 |
| %RSD | .3948069 | .5096382 | .9559343 | .7104271 | .6822883 | .5494537 | .4957525 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1015.283 | 1020.997 | 980.6411 | 1118.597 | 1004.137 | 1019.428 | 1035.309 |
| #2 | 1008.874 | 1025.647 | 976.7622 | 1113.357 | 1010.653 | 1025.120 | 1025.611 |
| #3 | 1016.229 | 1015.263 | 994.6442 | 1128.994 | 1017.925 | 1030.692 | 1027.699 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1024.154 | 1002.196 | 1015.247 | 1034.349 | 1020.448 | 1011.971 | 1030.734 |
| SDEV | 2.378 | 12.902 | 5.016 | 13.424 | 7.252 | 5.906 | 2.535 |
| %RSD | .2321988 | 1.287392 | .4940471 | 1.297869 | .7106362 | .5835730 | .2459643 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1022.130 | 993.4609 | 1009.462 | 1033.116 | 1012.590 | 1009.268 | 1031.790 |
| #2 | 1023.558 | 996.1112 | 1017.907 | 1021.584 | 1026.881 | 1007.901 | 1027.841 |
| #3 | 1026.773 | 1017.015 | 1018.373 | 1048.348 | 1021.873 | 1018.744 | 1032.570 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1001.046 | 995.0453 | 2741.177 |
| SDEV | 4.694 | 7.0909 | 6.784 |
| %RSD | .4688616 | .7126185 | .2474998 |

| | | | |
|----|----------|----------|----------|
| #1 | 1005.310 | 988.3025 | 2738.933 |
| #2 | 996.0174 | 994.3942 | 2748.800 |
| #3 | 1001.812 | 1002.439 | 2735.800 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB
 RUN TIME: 03/23/09 16:26:40
 COMMENT: CCB
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0361925 | 59.03087 | .1094019 | .7601338 | -188.594 | .3748467 | .9796633 |
| SDEV | .2057995 | 1.47136 | .0207143 | .0961026 | 1.853 | .1796071 | .4009021 |
| %RSD | 568.6241 | 2.492525 | 18.93413 | 12.64286 | .9824705 | 47.91481 | 40.92244 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.024128 | 58.74731 | .1177770 | .8507864 | -190.372 | .2456076 | .5174245 |
| #2 | .2654120 | 57.72192 | .1246173 | .6593792 | -188.734 | .5799356 | 1.232553 |
| #3 | -.132706 | 60.62337 | .0858114 | .7702358 | -186.675 | .2989968 | 1.189013 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .8764764 | -.633526 | 23.00938 | 22.40949 | 29.41931 | .2796324 | 28.90805 |
| SDEV | .4457090 | .351357 | 5.12281 | 1.19895 | 1.65157 | .0825899 | 43.80200 |
| %RSD | 50.85237 | 55.46046 | 22.26399 | 5.350208 | 5.613893 | 29.53519 | 151.5218 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.091493 | -1.03288 | 26.87608 | 23.64993 | 30.44996 | .2783735 | 79.30703 |
| #2 | 1.173915 | -.495782 | 24.95284 | 22.32167 | 30.29358 | .3628446 | .0244178 |
| #3 | .3640206 | -.371912 | 17.19922 | 21.25685 | 27.51438 | .1976791 | 7.392717 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .4923554 | -.781611 | .4747875 | .2679039 | 1.827488 | -1.10499 | 1.862040 |
| SDEV | .3192055 | 4.780841 | .4056356 | .3131224 | .126038 | 1.64545 | 1.707201 |
| %RSD | 64.83234 | 611.6649 | 85.43520 | 116.8786 | 6.896791 | 148.9112 | 91.68446 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4434957 | -2.27545 | .8973094 | .0174200 | 1.853250 | -2.94041 | -.108935 |
| #2 | .2003966 | 4.567784 | .4385885 | .6189532 | 1.690559 | -.612660 | 2.878805 |
| #3 | .8331737 | -4.63716 | .0884646 | .1673386 | 1.938654 | .2380982 | 2.816251 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.726548 | -.674142 | 3.071443 | .7859071 | -2.05345 | 1.243876 | -.094729 |
| SDEV | 1.588931 | 2.048349 | 1.056838 | 1.344363 | 1.80271 | 1.221704 | 2.290570 |
| %RSD | 58.27626 | 303.8455 | 34.40851 | 171.0588 | 87.78942 | 98.21753 | 2418.018 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.571736 | -3.03057 | 4.286531 | -.751562 | -4.03761 | -.131050 | .2275294 |
| #2 | 2.069246 | .3275831 | 2.366036 | 1.369026 | -1.60645 | 2.204733 | 2.017646 |
| #3 | 4.538664 | .6805668 | 2.561762 | 1.740257 | -.516293 | 1.657945 | -2.52936 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.777363 | .5467145 | 2733.267 |
| SDEV | .738425 | .1669308 | 6.429 |
| %RSD | 19.54869 | 30.53345 | .2352167 |

| | | | |
|----|----------|----------|----------|
| #1 | 4.582015 | .5320193 | 2740.600 |
| #2 | 3.619317 | .7205072 | 2730.600 |
| #3 | 3.130757 | .3876173 | 2728.600 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031330-BLK1 OPERATOR:
 RUN TIME: 03/23/09 16:39:16
 COMMENT: SDG:0903084 CLIENTID:PBW 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | L-.072385 | L35.57642 | L-.014773 | L.6093953 | L-201.773 | L.1077442 | L.4849966 |
| SDEV | .416345 | 6.30398 | .016973 | .0459720 | 1.428 | .3381439 | .5957946 |
| %RSD | 575.1812 | 17.71956 | 114.8946 | 7.543873 | .7075068 | 313.8397 | 122.8451 |

| | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | L-.060321 | L29.58615 | L-.001564 | L.6270880 | L-200.125 | L.4961958 | L1.172954 |
| #2 | L-.494631 | L42.15313 | L-.033916 | L.6438924 | L-202.581 | L-.120692 | L.1436167 |
| #3 | L.3377971 | L34.98997 | L-.008838 | L.5572056 | L-202.614 | L-.052272 | L.1384187 |

| ERRORS | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 1110.000 | 108000.0 | 1840.000 | 1690.000 | 52200.00 | 2770.000 | 811.0000 |
| LOW | 490.0000 | 43900.00 | 1280.000 | 1170.000 | 34200.00 | 1880.000 | 561.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | L.7954860 | L-.179016 | L49.46458 | L18.29977 | L4.010681 | L.4989520 | L125.2000 |
| SDEV | .0460524 | .460345 | 2.75045 | 1.74753 | 1.536472 | .0507770 | 15.4111 |
| %RSD | 5.789215 | 257.1522 | 5.560447 | 9.549489 | 38.30951 | 10.17674 | 12.30919 |

| | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | L.7700844 | L.3513432 | L52.63467 | L16.30462 | L3.356819 | L.5379201 | L134.2523 |
| #2 | L.8486453 | L-.413274 | L48.04651 | L19.03575 | L2.909293 | L.4415282 | L107.4057 |
| #3 | L.7677282 | L-.475119 | L47.71257 | L19.55893 | L5.765931 | L.5174077 | L133.9420 |

| ERRORS | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 738.0000 | 1540.000 | 214000.0 | 30600.00 | 27300.00 | 3650.000 | 6580.000 |
| LOW | 477.0000 | 1080.000 | 74200.00 | 17000.00 | 17100.00 | 2430.000 | 2540.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | L.7530292 | L2.871046 | L.2126896 | L2.462115 | L.7036420 | L-1.50031 | L.9420254 |
| SDEV | .3689206 | 1.544777 | .2267556 | .451172 | .0833402 | .65458 | .3818035 |
| %RSD | 48.99154 | 53.80537 | 106.6134 | 18.32459 | 11.84412 | 43.62965 | 40.53007 |

| | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | L1.132092 | L4.619973 | L.2215280 | L2.148896 | L.7227350 | L-1.89587 | L.5139341 |
| #2 | L.3951648 | L2.300357 | L-.018356 | L2.258201 | L.7757789 | L-1.86032 | L1.064817 |
| #3 | L.7318308 | L1.692809 | L.4348968 | L2.979247 | L.6124120 | L-.744746 | L1.247325 |

| ERRORS | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW | LC LOW |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 588.0000 | 1970.000 | 930.0000 | 1410.000 | 918.0000 | 1030.000 | 1730.000 |
| LOW | 404.0000 | 1190.000 | 517.0000 | 905.0000 | 619.0000 | 626.0000 | 30.00000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|-----------|----------|----------|----------|----------|-----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | L.8549594 | -.689568 | 1.394413 | -3.17999 | -.666150 | L.4192292 | .1740077 |
| SDEV | 2.462543 | .441026 | .334000 | 1.95197 | 1.433618 | 3.927301 | .9784358 |
| %RSD | 288.0303 | 63.95688 | 23.95276 | 61.38296 | 215.2094 | 936.7908 | 562.2946 |

| | | | | | | | |
|----|-----------|----------|----------|----------|----------|-----------|----------|
| #1 | L-1.53308 | -1.03013 | 1.592801 | -1.17692 | -2.25929 | L1.878746 | .5231203 |
| #2 | L3.385794 | -.847189 | 1.581642 | -5.07650 | -.259046 | L-4.02887 | .9300033 |
| #3 | L.7121618 | -.191388 | 1.008796 | -3.28656 | .5198873 | L3.407811 | -.931100 |

| ERRORS | LC LOW | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC LOW | NOCHECK |
|--------|----------|---------|---------|---------|---------|----------|---------|
| HIGH | 973.0000 | | | | | 2280.000 | |
| LOW | 645.0000 | | | | | 1220.000 | |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|-----------|-----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | L.3407181 | L.3079017 | 2739.844 |
| SDEV | .2515315 | .0773872 | 38.296 |
| %RSD | 73.82394 | 25.13375 | 1.397761 |

| | | | |
|----|-----------|-----------|----------|
| #1 | L.3907410 | L.3969220 | 2697.800 |
| #2 | L.5634795 | L.2566592 | 2749.000 |
| #3 | L.0679338 | L.2701240 | 2772.733 |

| ERRORS | LC LOW | LC LOW | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 705.0000 | 4510.000 | |
| LOW | 463.0000 | 1110.000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031330-BS1 OPERATOR:
 RUN TIME: 03/23/09 16:46:44
 COMMENT: SDG:0903084 CLIENTID:LCSW 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 514.2719 | 2680.688 | 518.4164 | 516.3287 | 10217.41 | 528.1182 | 521.9098 |
| SDEV | .9305 | 40.727 | 2.5746 | 6.5720 | 157.91 | 8.9849 | 8.7073 |
| %RSD | .1809367 | 1.519290 | .4966187 | 1.272830 | 1.545486 | 1.701305 | 1.668362 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 513.5480 | 2658.756 | 517.1168 | 514.9496 | 10226.78 | 528.8898 | 519.1630 |
| #2 | 515.3215 | 2727.681 | 521.3817 | 523.4809 | 10370.42 | 536.6924 | 531.6593 |
| #3 | 513.9462 | 2655.626 | 516.7507 | 510.5558 | 10055.02 | 518.7724 | 514.9071 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 594.0000 | 2978.000 | 602.0000 | 591.0000 | 12216.00 | 592.0000 | 595.0000 |
| LOW | 396.0000 | 1986.000 | 402.0000 | 395.0000 | 8144.000 | 395.0000 | 397.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 518.0623 | 527.9023 | 5175.005 | 10850.08 | 6106.066 | 516.7917 | 10435.03 |
| SDEV | 7.2617 | 3.0147 | 66.529 | 105.97 | 83.992 | 10.4575 | 119.92 |
| %RSD | 1.401710 | .5710703 | 1.285592 | .9766897 | 1.375553 | 2.023536 | 1.149174 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 517.4748 | 524.4236 | 5165.408 | 10763.65 | 6077.665 | 513.2520 | 10454.36 |
| #2 | 525.6000 | 529.5295 | 5245.811 | 10968.31 | 6200.577 | 528.5596 | 10544.11 |
| #3 | 511.1122 | 529.7538 | 5113.795 | 10818.29 | 6039.957 | 508.5635 | 10306.62 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 588.0000 | 588.0000 | 6128.000 | 12009.00 | 7203.000 | 594.0000 | 12046.00 |
| LOW | 392.0000 | 392.0000 | 4086.000 | 8007.000 | 4803.000 | 396.0000 | 8031.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 531.5792 | 1086.795 | 510.6476 | 1067.632 | 1055.609 | 1047.182 | 1042.224 |
| SDEV | 7.8989 | 16.297 | 5.0385 | 14.773 | 12.660 | 6.859 | 11.536 |
| %RSD | 1.485923 | 1.499559 | .9866898 | 1.383737 | 1.199337 | .6549600 | 1.106848 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 532.6547 | 1076.586 | 509.4463 | 1064.274 | 1053.177 | 1045.843 | 1038.285 |
| #2 | 538.8852 | 1105.591 | 516.1782 | 1083.795 | 1069.309 | 1054.612 | 1055.213 |
| #3 | 523.1977 | 1078.211 | 506.3183 | 1054.826 | 1044.341 | 1041.092 | 1033.173 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 590.0000 | 1232.000 | 601.0000 | 1200.000 | 1195.000 | 1206.000 | 1190.000 |
| LOW | 394.0000 | 822.0000 | 401.0000 | 800.0000 | 797.0000 | 804.0000 | 794.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1047.042 | 1048.951 | 1058.928 | 1053.532 | 1044.008 | -3.33167 | -.123734 |
| SDEV | 11.323 | 10.902 | 14.502 | 7.374 | 6.883 | 1.08734 | 1.287704 |
| %RSD | 1.081393 | 1.039322 | 1.369496 | .6999281 | .6593102 | 32.63637 | 1040.707 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1035.671 | 1053.269 | 1053.125 | 1049.538 | 1043.994 | -4.44325 | .6238685 |
| #2 | 1058.316 | 1057.032 | 1075.433 | 1062.041 | 1050.898 | -3.28143 | -1.61064 |
| #3 | 1047.138 | 1036.551 | 1048.226 | 1049.016 | 1037.132 | -2.27032 | .6155692 |

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
|--------|---------|---------|---------|---------|---------|---------|---------|

| | |
|------|----------|
| HIGH | 1195.000 |
| LOW | 797.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .0559743 | .1522732 | 2709.289 |
| SDEV | .2307368 | .1323448 | 27.395 |
| %RSD | 412.2192 | 86.91272 | 1.011145 |

| | | | |
|----|----------|----------|----------|
| #1 | -.210213 | .2195611 | 2716.533 |
| #2 | .1989552 | .2374544 | 2679.000 |
| #3 | .1791807 | -.000196 | 2732.333 |

| | | | |
|--------|---------|---------|---------|
| ERRORS | NOCHECK | NOCHECK | NOCHECK |
| HIGH | | | |
| LOW | | | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903084-01 OPERATOR:
 RUN TIME: 03/23/09 16:53:40
 COMMENT: SDG:0903084 CLIENTID:MW-3 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.072385 | 3845.364 | 167.7574 | .7576438 | 31993.50 | .7806492 | 4.066219 |
| SDEV | .221140 | 14.897 | .5888 | .1504078 | 179.28 | .0713909 | .092997 |
| %RSD | 305.5050 | .3874020 | .3509980 | 19.85205 | .5603743 | 9.145075 | 2.287057 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.313669 | 3833.867 | 167.5344 | .9306584 | 31836.76 | .7457030 | 3.979047 |
| #2 | .1206418 | 3862.193 | 167.3126 | .6842501 | 32188.99 | .7334636 | 4.164111 |
| #3 | -.024128 | 3840.031 | 168.4251 | .6580229 | 31954.74 | .8627809 | 4.055500 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 42.62728 | 6.169003 | 6853.325 | 3076.666 | 13877.09 | 57.25452 | 7337.463 |
| SDEV | .40994 | .175870 | 25.823 | 5.834 | 27.00 | .45537 | 99.567 |
| %RSD | .9616740 | 2.850873 | .3767973 | .1896065 | .1945749 | .7953389 | 1.356967 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 42.62164 | 6.099988 | 6829.472 | 3083.299 | 13858.06 | 56.90153 | 7405.047 |
| #2 | 42.22019 | 6.368914 | 6849.755 | 3074.365 | 13865.22 | 57.09351 | 7384.218 |
| #3 | 43.04001 | 6.038108 | 6880.747 | 3072.333 | 13908.00 | 57.76852 | 7223.123 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 25.80323 | -2.26117 | 14.57637 | 25.09124 | 2.767030 | -1.29602 | 3.863806 |
| SDEV | .72304 | 2.45597 | .50309 | .29418 | .999838 | .58811 | 1.411850 |
| %RSD | 2.802144 | 108.6152 | 3.451405 | 1.172454 | 36.13398 | 45.37844 | 36.54039 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 25.89529 | -.565662 | 14.12356 | 25.30246 | 2.904970 | -1.01640 | 5.358814 |
| #2 | 26.47584 | -1.14023 | 15.11793 | 24.75523 | 1.705384 | -1.97177 | 3.679361 |
| #3 | 25.03857 | -5.07761 | 14.48763 | 25.21604 | 3.690736 | -.899882 | 2.553245 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.647216 | 1.581557 | 3.353919 | -.824124 | -1.53602 | -.627932 | 1.122958 |
| SDEV | 1.988832 | 1.348319 | 1.433380 | 3.242871 | 1.11513 | 3.658799 | .089595 |
| %RSD | 75.12917 | 85.25267 | 42.73746 | 393.4933 | 72.59889 | 582.6745 | 7.978437 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.056704 | 3.105584 | 2.799834 | -1.89858 | -.580392 | -4.44840 | 1.039014 |
| #2 | 4.399432 | .5439125 | 2.280288 | -3.39340 | -1.26643 | 2.844295 | 1.217297 |
| #3 | .4855128 | 1.095175 | 4.981636 | 2.819610 | -2.76123 | -.279689 | 1.112565 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.897570 | 357.6223 | 2749.489 |
| SDEV | .428155 | 2.3211 | 12.566 |
| %RSD | 22.56332 | .6490268 | .4570425 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.452887 | 356.0819 | 2737.733 |
| #2 | 1.932803 | 360.2919 | 2748.000 |
| #3 | 2.307019 | 356.4931 | 2762.733 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031330-DUP1 OPERATOR:
 RUN TIME: 03/23/09 17:00:36
 COMMENT: SDG:0903084 CLIENTID:MW-3D 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.036193 | 3673.070 | 168.3765 | .6063815 | 32092.01 | .2718657 | 3.482083 |
| SDEV | .185726 | 20.562 | 1.1725 | .1388867 | 161.41 | .0566449 | .327867 |
| %RSD | 513.1602 | .5597974 | .6963357 | 22.90418 | .5029448 | 20.83560 | 9.415841 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1206418 | 3662.986 | 168.6337 | .6182111 | 31906.84 | .2741779 | 3.105021 |
| #2 | .0120642 | 3659.496 | 167.0968 | .4619583 | 32166.32 | .2141001 | 3.700028 |
| #3 | -.241284 | 3696.727 | 169.3990 | .7389750 | 32202.88 | .3273190 | 3.641200 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 41.66322 | 6.120504 | 6535.928 | 2965.873 | 13822.48 | 55.78536 | 7379.487 |
| SDEV | .48598 | .402253 | 23.693 | 9.153 | 48.13 | .33478 | 67.139 |
| %RSD | 1.166439 | 6.572221 | .3624974 | .3086254 | .3481664 | .6001278 | .9098086 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 41.12502 | 5.975761 | 6523.401 | 2958.236 | 13798.43 | 55.45980 | 7328.421 |
| #2 | 42.06990 | 6.575099 | 6521.128 | 2963.363 | 13791.11 | 55.76762 | 7354.504 |
| #3 | 41.79474 | 5.810652 | 6563.254 | 2976.019 | 13877.88 | 56.12866 | 7455.536 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 24.27472 | .2474539 | 13.64578 | 21.04622 | 3.501537 | .0384047 | 1.654732 |
| SDEV | 1.17366 | .6630651 | .32025 | .45159 | 1.391756 | .4600950 | 1.647790 |
| %RSD | 4.834897 | 267.9551 | 2.346876 | 2.145726 | 39.74701 | 1198.018 | 99.58045 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 23.26434 | .6291046 | 13.31946 | 20.86662 | 1.925514 | -.228509 | .4062649 |
| #2 | 25.56210 | .6314435 | 13.65829 | 20.71205 | 4.561761 | .5696746 | 3.522432 |
| #3 | 23.99771 | -.518187 | 13.95960 | 21.55998 | 4.017335 | -.225951 | 1.035500 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.286348 | 1.284693 | 4.603365 | 1.955460 | -.923070 | -2.61488 | 1.167710 |
| SDEV | 1.972792 | 2.066581 | 2.071409 | .771925 | .407244 | 1.18070 | 1.106372 |
| %RSD | 60.02994 | 160.8619 | 44.99771 | 39.47538 | 44.11847 | 45.15296 | 94.74712 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.296367 | .2213639 | 2.771387 | 1.179102 | -.935637 | -2.75498 | .8093440 |
| #2 | 1.353019 | -.033713 | 6.851129 | 2.722875 | -.509688 | -3.71928 | .2849426 |
| #3 | 3.209657 | 3.666427 | 4.187578 | 1.964405 | -1.32389 | -1.37039 | 2.408844 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.079334 | 334.6216 | 2763.555 |
| SDEV | .499247 | .7819 | 7.772 |
| %RSD | 24.00994 | .2336749 | .2812264 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.525306 | 334.1490 | 2767.533 |
| #2 | 2.494323 | 335.5241 | 2768.533 |
| #3 | 2.218374 | 334.1916 | 2754.600 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9031330-MS1 OPERATOR:
 RUN TIME: 03/23/09 17:07:32
 COMMENT: SDG:0903084 CLIENTID:MW-3S 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 50.75400 | 6327.015 | 2168.732 | 52.13558 | 31780.56 | 52.42768 | 511.0748 |
| SDEV | .12537 | 66.655 | 17.576 | .33250 | 120.52 | .06528 | 2.3155 |
| %RSD | .2470244 | 1.053501 | .8104077 | .6377526 | .3792329 | .1245056 | .4530588 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 50.89878 | 6286.029 | 2186.181 | 51.91377 | 31681.61 | 52.47529 | 509.1286 |
| #2 | 50.68162 | 6403.926 | 2168.985 | 52.51788 | 31914.79 | 52.45448 | 513.6356 |
| #3 | 50.68162 | 6291.088 | 2151.032 | 51.97509 | 31745.29 | 52.35327 | 510.4604 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 245.0556 | 267.6346 | 7584.389 | 2940.410 | 13901.03 | 561.7763 | 7391.028 |
| SDEV | 1.4989 | 1.3745 | 30.606 | 19.067 | 103.89 | 2.9542 | 39.793 |
| %RSD | .6116482 | .5135727 | .4035416 | .6484339 | .7473848 | .5258723 | .5383899 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 243.3455 | 266.3592 | 7549.538 | 2931.020 | 13810.51 | 558.4561 | 7408.070 |
| #2 | 246.1416 | 269.0904 | 7606.890 | 2962.351 | 14014.47 | 562.7582 | 7345.553 |
| #3 | 245.6797 | 267.4543 | 7596.740 | 2927.860 | 13878.11 | 564.1145 | 7419.462 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 537.5148 | 52.49311 | 508.4388 | 537.7388 | 23.71728 | 50.53517 | 96.32040 |
| SDEV | .8091 | 2.19898 | 6.8780 | 1.2037 | 1.01063 | 1.61265 | 1.91212 |
| %RSD | .1505315 | 4.189081 | 1.352761 | .2238474 | 4.261166 | 3.191135 | 1.985168 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 536.5858 | 50.86960 | 504.4319 | 536.6398 | 22.96031 | 52.10386 | 95.96543 |
| #2 | 537.8930 | 51.61410 | 516.3806 | 539.0252 | 23.32658 | 48.88190 | 98.38512 |
| #3 | 538.0656 | 54.99562 | 504.5037 | 537.5513 | 24.86493 | 50.61975 | 94.61063 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 43.27493 | 24.12354 | 23.50943 | 48.55884 | 51.51739 | -1.63015 | 1.098764 |
| SDEV | 3.01507 | 1.89937 | .97676 | 4.89596 | .55224 | 2.52497 | 1.337210 |
| %RSD | 6.967244 | 7.873495 | 4.154748 | 10.08254 | 1.071940 | 154.8918 | 121.7013 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 44.39665 | 24.05902 | 22.40677 | 53.88546 | 51.20994 | -4.53977 | 2.642807 |
| #2 | 45.56835 | 22.25725 | 23.85540 | 44.25517 | 51.18730 | -.013949 | .3355123 |
| #3 | 39.85978 | 26.05434 | 24.26611 | 47.53589 | 52.15492 | -.336731 | .3179712 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.099353 | 340.7350 | 2712.689 |
| SDEV | .479499 | 2.9846 | 12.053 |
| %RSD | 22.84034 | .8759345 | .4443033 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.651133 | 339.2786 | 2720.400 |
| #2 | 1.783797 | 344.1682 | 2698.800 |
| #3 | 1.863128 | 338.7582 | 2718.867 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: SDI0903084-01 OPERATOR:
 RUN TIME: 03/23/09 17:14:28
 COMMENT: SDG:0903084 CLIENTID:MW-3L 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.012064 | 833.9720 | 34.26371 | .6864392 | 6412.180 | .3705871 | 1.344713 |
| SDEV | .137023 | 2.9501 | .25432 | .0990107 | 36.475 | .2199142 | .049930 |
| %RSD | 1135.782 | .3537430 | .7422343 | 14.42382 | .5688332 | 59.34210 | 3.713095 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0844493 | 836.1110 | 33.97010 | .6646637 | 6420.428 | .6024656 | 1.386994 |
| #2 | .0482567 | 835.1985 | 34.40612 | .7945252 | 6372.287 | .1650012 | 1.357518 |
| #3 | -.168899 | 830.6064 | 34.41492 | .6001287 | 6443.824 | .3442946 | 1.289627 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.234384 | .7379850 | 1423.331 | 568.1856 | 2855.698 | 11.83890 | 1437.339 |
| SDEV | .328437 | .1733029 | 1.520 | 5.9327 | 11.998 | .09218 | 69.976 |
| %RSD | 3.556673 | 23.48326 | .1068069 | 1.044142 | .4201289 | .7785910 | 4.868413 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.914734 | .8481771 | 1422.522 | 571.7945 | 2842.453 | 11.76094 | 1515.131 |
| #2 | 9.217462 | .5382266 | 1425.084 | 571.4238 | 2858.802 | 11.81513 | 1417.362 |
| #3 | 9.570953 | .8275511 | 1422.386 | 561.3385 | 2865.838 | 11.94064 | 1379.525 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.322915 | .7278396 | 3.241500 | 5.430652 | 2.105878 | .7464040 | .8728158 |
| SDEV | .352753 | 3.792012 | .070895 | .344286 | 1.158433 | 1.559132 | .8001971 |
| %RSD | 6.627070 | 520.9955 | 2.187109 | 6.339685 | 55.00952 | 208.8858 | 91.67995 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.728523 | 1.131437 | 3.203450 | 5.033278 | .9863673 | 1.944646 | .0140874 |
| #2 | 5.087762 | 4.301910 | 3.197754 | 5.619163 | 2.031606 | -1.01635 | 1.597569 |
| #3 | 5.152461 | -3.24983 | 3.323297 | 5.639515 | 3.299660 | 1.310921 | 1.006791 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.392664 | .3710743 | 2.967010 | 1.275209 | .4779814 | -.544036 | .5746801 |
| SDEV | 2.474266 | 1.154749 | 1.187734 | 2.792289 | .9608604 | 2.397323 | 1.736334 |
| %RSD | 177.6643 | 311.1906 | 40.03135 | 218.9672 | 201.0247 | 440.6554 | 302.1392 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.448044 | -.892651 | 1.919497 | 3.167995 | 1.329471 | 2.032559 | 2.381723 |
| #2 | -1.10883 | .6345704 | 2.724117 | -1.93169 | -.563780 | -.955961 | .4233576 |
| #3 | 3.838775 | 1.371303 | 4.257415 | 2.589324 | .6682540 | -2.70870 | -1.08104 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .5020265 | 73.41021 | 2742.378 |
| SDEV | .3960194 | .57454 | 4.765 |
| %RSD | 78.88416 | .7826402 | .1737469 |

| | | | |
|----|----------|----------|----------|
| #1 | .9593049 | 73.47937 | 2741.267 |
| #2 | .2714717 | 72.80422 | 2747.600 |
| #3 | .2753029 | 73.94704 | 2738.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: PDS0903084-01 OPERATOR:
 RUN TIME: 03/23/09 17:21:24
 COMMENT: SDG:0903084 CLIENTID:MW-3A 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 40.24611 | 4624.124 | 963.7292 | 21.11365 | 31900.58 | 21.00936 | 203.0973 |
| SDEV | .32840 | 25.434 | 7.2475 | .05419 | 86.41 | .07889 | .6590 |
| %RSD | .8159875 | .5500325 | .7520285 | .2566563 | .2708850 | .3754907 | .3244878 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 40.11340 | 4646.426 | 972.0354 | 21.05740 | 31913.96 | 20.93232 | 202.8831 |
| #2 | 40.62010 | 4629.523 | 960.4609 | 21.16551 | 31979.52 | 21.08997 | 203.8368 |
| #3 | 40.00483 | 4596.424 | 958.6915 | 21.11804 | 31808.25 | 21.00580 | 202.5720 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 82.50289 | 109.3325 | 7221.724 | 3058.002 | 13860.26 | 116.8063 | 7253.229 |
| SDEV | .86680 | .3059 | 17.033 | 11.814 | 64.78 | .2173 | 115.520 |
| %RSD | 1.050636 | .2797626 | .2358595 | .3863250 | .4673592 | .1860655 | 1.592670 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 81.92858 | 109.6839 | 7210.175 | 3070.607 | 13838.48 | 116.6014 | 7348.129 |
| #2 | 83.49996 | 109.1264 | 7241.286 | 3056.217 | 13933.12 | 117.0342 | 7286.958 |
| #3 | 82.08014 | 109.1872 | 7213.712 | 3047.182 | 13809.18 | 116.7832 | 7124.598 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 190.4000 | 37.59692 | 212.9938 | 106.3912 | 14.78880 | 20.29556 | 249.0178 |
| SDEV | 1.6377 | 2.98792 | 2.0447 | .6172 | .89960 | .45373 | 1.2464 |
| %RSD | .8601239 | 7.947250 | .9600019 | .5801350 | 6.082993 | 2.235601 | .5005122 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 188.5091 | 39.68128 | 213.5400 | 105.9548 | 14.28381 | 20.19103 | 248.5999 |
| #2 | 191.3218 | 38.93575 | 214.7100 | 107.0974 | 15.82744 | 20.79243 | 250.4195 |
| #3 | 191.3690 | 34.17372 | 210.7314 | 106.1213 | 14.25516 | 19.90321 | 248.0342 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 43.16767 | 12.20078 | 16.07535 | 20.42933 | 20.22436 | -.669557 | 1.034822 |
| SDEV | 1.28959 | 1.71587 | .62354 | 3.55948 | 2.29186 | .888172 | .411150 |
| %RSD | 2.987401 | 14.06361 | 3.878882 | 17.42337 | 11.33215 | 132.6507 | 39.73144 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 44.61283 | 10.69167 | 16.07165 | 18.01122 | 21.27488 | -1.24787 | .8901154 |
| #2 | 42.13417 | 14.06716 | 16.70073 | 18.76012 | 21.80264 | .3530945 | .7155896 |
| #3 | 42.75600 | 11.84352 | 15.45366 | 24.51666 | 17.59555 | -1.11390 | 1.498760 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.412832 | 355.8847 | 2745.244 |
| SDEV | .741537 | 2.1259 | 6.072 |
| %RSD | 52.48584 | .5973590 | .2211908 |

| | | | |
|----|----------|----------|----------|
| #1 | .7642596 | 356.6471 | 2741.000 |
| #2 | 1.252977 | 357.5243 | 2742.533 |
| #3 | 2.221258 | 353.4828 | 2752.200 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903084-02 OPERATOR:
 RUN TIME: 03/23/09 17:28:20
 COMMENT: SDG:0903084 CLIENTID:MW-2 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2412836 | 254.2951 | 223.8818 | .8966364 | 33232.39 | .3827993 | 1.331880 |
| SDEV | .1462704 | 12.9378 | 4.5252 | .2458105 | 333.02 | .2859288 | .627312 |
| %RSD | 60.62178 | 5.087722 | 2.021246 | 27.41474 | 1.002094 | 74.69418 | 47.09970 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3739896 | 255.3743 | 225.5553 | .9985510 | 33421.27 | .5809455 | 1.594717 |
| #2 | .2654120 | 266.6595 | 227.3319 | 1.075098 | 33428.03 | .5124375 | 1.785020 |
| #3 | .0844493 | 240.8514 | 218.7582 | .6162605 | 32847.87 | .0550150 | .6159045 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.633334 | -.033797 | 439.6195 | 4198.825 | 6432.804 | 20.24881 | 4540.362 |
| SDEV | .084519 | .246462 | 6.1095 | 43.315 | 81.848 | .34007 | 65.823 |
| %RSD | 3.209570 | 729.2426 | 1.389721 | 1.031596 | 1.272346 | 1.679436 | 1.449729 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.571370 | .0420467 | 444.5637 | 4212.782 | 6461.276 | 20.23388 | 4538.945 |
| #2 | 2.729614 | -.309267 | 441.5055 | 4233.441 | 6496.614 | 20.59610 | 4606.882 |
| #3 | 2.599020 | .1658293 | 432.7894 | 4150.252 | 6340.523 | 19.91646 | 4475.259 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.522136 | -2.82752 | 2.083607 | 8.758118 | .6650382 | -.218559 | 3.277420 |
| SDEV | .609806 | 1.44267 | .339217 | .187563 | 1.220416 | .305944 | 1.953145 |
| %RSD | 17.31351 | 51.02244 | 16.28026 | 2.141593 | 183.5107 | 139.9823 | 59.59399 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.198398 | -1.58199 | 2.338100 | 8.796461 | -.671386 | .1170734 | 4.520970 |
| #2 | 3.142472 | -2.49228 | 2.214224 | 8.923546 | 1.720410 | -.481848 | 4.285050 |
| #3 | 4.225538 | -4.40830 | 1.698498 | 8.554345 | .9460907 | -.290903 | 1.026239 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.137892 | 1.252766 | .3666207 | -.778486 | .0565449 | -.062824 | 1.245315 |
| SDEV | 1.456280 | 2.557325 | 2.346741 | 2.030764 | 1.390343 | 1.073239 | 1.685042 |
| %RSD | 46.40949 | 204.1343 | 640.1003 | 260.8607 | 2458.829 | 1708.334 | 135.3105 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.749749 | 2.500600 | -2.26005 | -1.95596 | 1.147552 | .7342244 | .6569769 |
| #2 | 4.653880 | 2.946626 | 1.103190 | 1.566431 | -1.50892 | -1.28316 | -.066679 |
| #3 | 3.010049 | -1.68893 | 2.256719 | -1.94593 | .5310075 | .3604658 | 3.145647 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.659085 | 29.57265 | 2728.600 |
| SDEV | 1.114472 | .46354 | 41.495 |
| %RSD | 67.17393 | 1.567457 | 1.520736 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.873728 | 29.83971 | 2701.133 |
| #2 | .6836190 | 29.84084 | 2708.333 |
| #3 | 1.419907 | 29.03740 | 2776.333 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903084-03 OPERATOR:
 RUN TIME: 03/23/09 17:35:16
 COMMENT: SDG:0903084 CLIENTID:MW-8 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1085776 | 4546.940 | 112.9812 | .9247533 | 34539.08 | 5.030587 | 3.563613 |
| SDEV | .1462704 | 14.766 | .7053 | .0845852 | 97.39 | .211380 | .659725 |
| %RSD | 134.7151 | .3247435 | .6242507 | 9.146790 | .2819757 | 4.201895 | 18.51281 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2654120 | 4563.779 | 113.5711 | .9864647 | 34642.41 | 5.023919 | 4.187369 |
| #2 | .0844493 | 4536.204 | 113.1726 | .8283351 | 34525.86 | 4.822619 | 3.630459 |
| #3 | -.024128 | 4540.837 | 112.2000 | .9594601 | 34448.97 | 5.245222 | 2.873009 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 13.08094 | 18.71118 | 5492.249 | 6670.035 | 4434.402 | 146.7045 | 1898.468 |
| SDEV | .48263 | .22754 | 22.878 | 8.179 | 22.662 | .5708 | 50.449 |
| %RSD | 3.689529 | 1.216050 | .4165527 | .1226297 | .5110501 | .3890708 | 2.657333 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 13.03873 | 18.55979 | 5518.643 | 6679.451 | 4460.267 | 147.1790 | 1955.275 |
| #2 | 13.58329 | 18.97284 | 5478.081 | 6665.965 | 4418.030 | 146.0711 | 1858.894 |
| #3 | 12.62081 | 18.60090 | 5480.023 | 6664.689 | 4424.909 | 146.8633 | 1881.234 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 7.259979 | -2.51792 | 13.26923 | 415.5187 | 3.099594 | 1.224774 | 2.374592 |
| SDEV | .459078 | 2.07261 | .39519 | .1234 | 1.271562 | .271588 | 1.616826 |
| %RSD | 6.323410 | 82.31429 | 2.978265 | .0297088 | 41.02351 | 22.17456 | 68.08858 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 6.792891 | -.593158 | 13.72555 | 415.6612 | 4.559917 | 1.033609 | 2.545155 |
| #2 | 7.710604 | -4.71204 | 13.03936 | 415.4515 | 2.237286 | 1.535652 | 3.899375 |
| #3 | 7.276441 | -2.24856 | 13.04277 | 415.4434 | 2.501579 | 1.105062 | .6792459 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.303420 | 3.322216 | 2.981809 | .3130899 | 1.675507 | -.729822 | .6095860 |
| SDEV | .708103 | 1.243030 | 1.496077 | 2.430272 | 1.040077 | 1.024325 | 1.277197 |
| %RSD | 21.43545 | 37.41568 | 50.17346 | 776.2217 | 62.07534 | 140.3527 | 209.5188 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.259521 | 4.495006 | 4.585649 | 1.188835 | .9516623 | -1.21936 | -.450412 |
| #2 | 4.032452 | 3.452442 | 1.623996 | 2.184118 | 1.207492 | .4474194 | 2.027580 |
| #3 | 2.618288 | 2.019200 | 2.735781 | -2.43368 | 2.867367 | -1.41753 | .2515898 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .9624435 | 299.5445 | 2737.333 |
| SDEV | .1955129 | .8075 | 12.360 |
| %RSD | 20.31422 | .2695679 | .4515273 |

| | | | |
|----|----------|----------|----------|
| #1 | .9718152 | 300.4692 | 2723.066 |
| #2 | 1.153102 | 299.1854 | 2744.800 |
| #3 | .7624133 | 298.9789 | 2744.133 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV
 RUN TIME: 03/23/09 17:42:13
 COMMENT: CCV CVS1
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 100.7238 | 50465.47 | 994.3780 | 1011.158 | 51135.08 | 1023.550 | 995.8587 |
| SDEV | .2327 | 75.85 | 3.8319 | 4.521 | 163.80 | 4.231 | 5.5312 |
| %RSD | .2310103 | .1503003 | .3853568 | .4471155 | .3203294 | .4133519 | .5554223 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 100.9892 | 50521.63 | 990.4692 | 1011.978 | 51132.83 | 1020.747 | 998.1273 |
| #2 | 100.5550 | 50495.59 | 994.5367 | 1015.214 | 51300.00 | 1021.486 | 989.5539 |
| #3 | 100.6273 | 50379.18 | 998.1281 | 1006.284 | 50972.42 | 1028.417 | 999.8950 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1003.954 | 1028.678 | 24962.54 | 53123.82 | 50261.21 | 997.5606 | 51781.27 |
| SDEV | 5.793 | 2.332 | 106.81 | 159.03 | 99.31 | 4.2287 | 131.58 |
| %RSD | .5769913 | .2266717 | .4278701 | .2993526 | .1975906 | .4239016 | .2541149 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 998.8650 | 1029.332 | 24840.57 | 53068.83 | 50151.97 | 993.7956 | 51927.10 |
| #2 | 1010.258 | 1026.089 | 25039.38 | 52999.59 | 50285.62 | 996.7505 | 51745.28 |
| #3 | 1002.740 | 1030.612 | 25007.66 | 53303.05 | 50346.04 | 1002.136 | 51671.42 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1023.335 | 1027.193 | 990.1724 | 1122.821 | 1017.890 | 1033.465 | 1035.531 |
| SDEV | 4.795 | 6.459 | 2.4887 | 4.449 | 3.043 | 6.528 | 3.541 |
| %RSD | .4685236 | .6288468 | .2513388 | .3962429 | .2989203 | .6317022 | .3419414 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1020.286 | 1022.085 | 990.8079 | 1120.790 | 1015.399 | 1030.191 | 1032.346 |
| #2 | 1020.857 | 1025.042 | 992.2817 | 1119.750 | 1016.990 | 1029.220 | 1034.904 |
| #3 | 1028.862 | 1034.454 | 987.4275 | 1127.923 | 1021.281 | 1040.982 | 1039.344 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1031.447 | 1001.296 | 1026.169 | 1045.315 | 1027.544 | 1018.140 | 1040.496 |
| SDEV | 2.584 | 1.079 | 5.088 | 3.805 | 7.888 | 7.625 | 5.909 |
| %RSD | .2504756 | .1077748 | .4958658 | .3640109 | .7676870 | .7489583 | .5678838 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1029.239 | 1001.962 | 1022.102 | 1043.468 | 1023.558 | 1010.147 | 1035.694 |
| #2 | 1030.813 | 1001.875 | 1024.530 | 1042.786 | 1022.443 | 1018.940 | 1038.699 |
| #3 | 1034.289 | 1000.051 | 1031.875 | 1049.691 | 1036.630 | 1025.335 | 1047.095 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 999.5460 | 997.6949 | 2712.689 |
| SDEV | 7.6281 | 6.4779 | 6.593 |
| %RSD | .7631522 | .6492884 | .2430412 |

| | | | |
|----|----------|----------|----------|
| #1 | 992.7795 | 998.2628 | 2714.933 |
| #2 | 998.0458 | 1003.870 | 2717.867 |
| #3 | 1007.813 | 990.9518 | 2705.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB

OPERATOR:

RUN TIME: 03/23/09 17:49:11

COMMENT: CCB

MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0603209 | 49.79036 | .0780956 | .8471679 | -199.010 | .3167797 | .7250181 |
| SDEV | .2211401 | 12.55747 | .1897454 | .2337767 | 9.555 | .1212007 | .1936591 |
| %RSD | 366.6060 | 25.22067 | 242.9656 | 27.59509 | 4.801203 | 38.26024 | 26.71093 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3016045 | 44.74797 | -.008870 | .7380095 | -204.917 | .1792034 | .5376850 |
| #2 | .0120642 | 64.08528 | .2957365 | 1.115558 | -187.986 | .4077980 | .7129324 |
| #3 | -.132706 | 40.53783 | -.052580 | .6879367 | -204.126 | .3633376 | .9244370 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1257725 | -.523430 | 6.908250 | 13.61064 | 16.27991 | .1401290 | 44.99262 |
| SDEV | .4152981 | .295410 | 8.934833 | 6.94135 | 7.74286 | .1889772 | 39.46939 |
| %RSD | 330.1979 | 56.43730 | 129.3357 | 50.99942 | 47.56085 | 134.8595 | 87.72414 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3642140 | -.454527 | 17.22531 | 11.68254 | 12.60591 | .0322855 | 43.71423 |
| #2 | .3668734 | -.268561 | 1.755536 | 21.31221 | 25.17582 | .3583362 | 6.177953 |
| #3 | -.353770 | -.847201 | 1.743908 | 7.837174 | 11.05800 | .0297653 | 85.08566 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .3461359 | 2.477880 | .1211530 | .0666152 | .9153750 | -2.09790 | .3296672 |
| SDEV | .5949401 | 2.837305 | .1358326 | .0857161 | .5047492 | 1.77831 | 1.085924 |
| %RSD | 171.8805 | 114.5054 | 112.1166 | 128.6734 | 55.14125 | 84.76595 | 329.4000 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.092191 | 5.280260 | .2038918 | .0173146 | 1.455137 | -3.87424 | 1.245684 |
| #2 | 1.023400 | 2.546489 | .1951795 | .0169398 | .4550610 | -2.10183 | .6132212 |
| #3 | .1071989 | -.393107 | -.035612 | .1655914 | .8359274 | -.317634 | -.869904 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.527996 | -.661240 | 1.697541 | .3323962 | -3.31564 | -.775647 | .7893432 |
| SDEV | .503372 | 1.981534 | 1.166314 | 2.001358 | 3.26745 | 1.834634 | .9346270 |
| %RSD | 32.94328 | 299.6695 | 68.70609 | 602.1003 | 98.54638 | 236.5296 | 118.4057 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.666931 | .4653430 | 1.944302 | .2809351 | -5.95315 | -2.62537 | 1.837500 |
| #2 | .9697483 | .5001673 | .4275918 | 2.358989 | -4.33331 | 1.043517 | .4878696 |
| #3 | 1.947309 | -2.94923 | 2.720729 | -1.64274 | .3395332 | -.745089 | .0426598 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.227561 | .3668470 | 2746.755 |
| SDEV | .717871 | .2526504 | 14.641 |
| %RSD | 32.22679 | 68.87079 | .5330386 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.833480 | .3655330 | 2730.200 |
| #2 | 2.414484 | .6201518 | 2752.066 |
| #3 | 1.434718 | .1148561 | 2758.000 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903084-04 OPERATOR:
 RUN TIME: 03/23/09 17:56:07
 COMMENT: SDG:0903084 CLIENTID:MW-9 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2412836 | 63.68490 | 593.5373 | .8895439 | 38691.76 | .5433779 | 8.297273 |
| SDEV | .2463576 | 10.08676 | 5.4619 | .2821264 | 612.71 | .4537273 | .988649 |
| %RSD | 102.1029 | 15.83854 | .9202363 | 31.71585 | 1.583579 | 83.50124 | 11.91534 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1568344 | 63.61499 | 590.6072 | .8802549 | 38267.47 | .3417068 | 7.804143 |
| #2 | .0482567 | 53.63327 | 590.1657 | .6121767 | 38413.60 | .2254473 | 7.652185 |
| #3 | .5187598 | 73.80643 | 599.8391 | 1.176200 | 39394.21 | 1.062979 | 9.435490 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .8807591 | -.481944 | 143.6891 | 9654.854 | 8842.040 | 722.0361 | 7977.366 |
| SDEV | .3334493 | .590356 | 5.7433 | 51.890 | 133.688 | 15.5957 | 261.261 |
| %RSD | 37.85931 | 122.4947 | 3.997020 | .5374517 | 1.511961 | 2.159962 | 3.275028 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5252386 | -.061804 | 139.9356 | 9649.596 | 8764.175 | 710.6140 | 7941.990 |
| #2 | .9304867 | -.227114 | 140.8310 | 9605.794 | 8765.538 | 715.6898 | 7735.595 |
| #3 | 1.186552 | -1.15691 | 150.3007 | 9709.174 | 8996.408 | 739.8044 | 8254.512 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.298937 | -.574976 | .6400616 | 6.940792 | .3956230 | -.457637 | 1.252016 |
| SDEV | .050177 | 3.930560 | .0815479 | .064983 | 1.555340 | 1.292397 | 1.141062 |
| %RSD | 2.182639 | 683.6046 | 12.74063 | .9362527 | 393.1368 | 282.4067 | 91.13796 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.309747 | -4.99553 | .5961696 | 6.869086 | .4650299 | .5291058 | 2.102897 |
| #2 | 2.342828 | .7445933 | .5898606 | 6.957499 | -1.19326 | -1.92057 | 1.697795 |
| #3 | 2.244235 | 2.526005 | .7341545 | 6.995790 | 1.915097 | .0185510 | -.044644 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .7371843 | .1440832 | .5163496 | -.774013 | -.304165 | -1.19493 | -.359207 |
| SDEV | 1.875256 | 2.067721 | 1.347198 | 5.731509 | .933756 | 2.63130 | .874346 |
| %RSD | 254.3809 | 1435.088 | 260.9081 | 740.4922 | 306.9898 | 220.2050 | 243.4098 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.474642 | .7783501 | .3035823 | 3.880504 | -1.14855 | -1.20014 | -1.35277 |
| #2 | -.210992 | -2.16648 | -.711804 | -7.17580 | .6986852 | -3.82363 | -.017706 |
| #3 | 2.897186 | 1.820377 | 1.957270 | .9732586 | -.462635 | 1.438971 | .2928504 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .0951388 | .8426472 | 2704.733 |
| SDEV | .5408453 | .1146229 | 37.339 |
| %RSD | 568.4805 | 13.60271 | 1.380492 |

| | | | |
|----|----------|----------|----------|
| #1 | -.110535 | .7774444 | 2713.267 |
| #2 | -.312698 | .7754996 | 2737.066 |
| #3 | .7086490 | .9749975 | 2663.867 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903084-05 OPERATOR:
 RUN TIME: 03/23/09 18:05:16
 COMMENT: SDG:0903084 CLIENTID:MW-12 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.036193 | 58.58584 | 325.7502 | 1.032604 | 48765.98 | .5460624 | 1.721412 |
| SDEV | .171039 | 6.86319 | 2.4612 | .104520 | 334.50 | .2478781 | .436998 |
| %RSD | 472.5817 | 11.71477 | .7555478 | 10.12200 | .6859199 | 45.39374 | 25.38599 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1568344 | 61.41434 | 326.9589 | 1.042541 | 48869.81 | .6136665 | 1.425028 |
| #2 | -.168899 | 63.58276 | 327.3733 | 1.131800 | 49036.26 | .7531251 | 2.223277 |
| #3 | -.096513 | 50.76041 | 322.9183 | .9234696 | 48391.89 | .2713955 | 1.515932 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .8000843 | -.757381 | -90.3286 | 3014.303 | 21641.75 | 26.18585 | 9106.749 |
| SDEV | .3122754 | .200764 | 7.8405 | 19.766 | 196.86 | .15564 | 46.868 |
| %RSD | 39.03032 | 26.50766 | 8.679965 | .6557521 | .9096305 | .5943613 | .5146561 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .9368381 | -.536899 | -81.3196 | 3007.428 | 21708.15 | 26.17338 | 9107.429 |
| #2 | 1.020653 | -.929645 | -95.6092 | 3036.589 | 21796.82 | 26.34736 | 9153.274 |
| #3 | .4427615 | -.805598 | -94.0569 | 2998.893 | 21420.27 | 26.03683 | 9059.545 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.984441 | -2.51384 | .8860241 | 3.254021 | .5176057 | -.096275 | 1.988414 |
| SDEV | 1.112830 | 1.51929 | .2374008 | .171551 | .8509467 | .769156 | .577177 |
| %RSD | 27.92940 | 60.43703 | 26.79394 | 5.271963 | 164.4006 | 798.9191 | 29.02697 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.269421 | -1.64158 | 1.129111 | 3.057954 | 1.426144 | .3767281 | 2.634921 |
| #2 | 3.338441 | -4.26815 | .6547511 | 3.376509 | -.260745 | -.983777 | 1.805355 |
| #3 | 3.345462 | -1.63178 | .8742098 | 3.327599 | .3874186 | .3182250 | 1.524967 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.474086 | 1.740670 | -.098099 | -1.54706 | .6235091 | -.407238 | 1.628634 |
| SDEV | 2.058978 | 1.443771 | .756226 | .69082 | 1.497611 | 2.905393 | 1.352395 |
| %RSD | 139.6782 | 82.94338 | 770.8817 | 44.65351 | 240.1906 | 713.4392 | 83.03865 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.830633 | 2.733267 | .7684591 | -2.01091 | 1.564223 | 2.136421 | 3.184068 |
| #2 | .0230396 | .0843989 | -.438179 | -.753123 | -1.10348 | -3.57344 | .7307455 |
| #3 | .5685863 | 2.404345 | -.624577 | -1.87716 | 1.409787 | .2153085 | .9710873 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | .2979183 | -.279486 | 2678.422 |
| SDEV | .6210757 | .037479 | 20.881 |
| %RSD | 208.4718 | 13.41000 | .7795851 |

| | | | |
|----|----------|----------|----------|
| #1 | -.400973 | -.262732 | 2671.000 |
| #2 | .5080861 | -.322420 | 2662.267 |
| #3 | .7866417 | -.253306 | 2702.000 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903084-06 OPERATOR:
 RUN TIME: 03/23/09 18:12:12
 COMMENT: SDG:0903084 CLIENTID:MW-17 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.012064 | 520.0252 | 509.5586 | .7762855 | 25777.13 | .4925661 | 4.878210 |
| SDEV | .221140 | 19.5155 | 11.4907 | .1388006 | 668.95 | .2551871 | .813489 |
| %RSD | 1833.030 | 3.752800 | 2.255037 | 17.88011 | 2.595144 | 51.80768 | 16.67598 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2292194 | 519.5769 | 508.0092 | .7612598 | 25753.17 | .6356345 | 5.008952 |
| #2 | -.205091 | 539.7609 | 521.7454 | .9219876 | 26457.74 | .6441216 | 5.618409 |
| #3 | -.060321 | 500.7376 | 498.9211 | .6456089 | 25120.48 | .1979422 | 4.007268 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.337737 | -.205987 | 947.9305 | 12411.59 | 9885.278 | 211.4806 | 4584.214 |
| SDEV | .304130 | .279535 | 22.3815 | 261.73 | 210.793 | 4.1936 | 68.595 |
| %RSD | 13.00959 | 135.7051 | 2.361094 | 2.108718 | 2.132396 | 1.982984 | 1.496329 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.235293 | .0833104 | 941.6386 | 12407.87 | 9880.968 | 211.6076 | 4560.194 |
| #2 | 2.098056 | -.226660 | 972.7846 | 12675.15 | 10098.19 | 215.6093 | 4661.589 |
| #3 | 2.679860 | -.474611 | 929.3684 | 12151.74 | 9676.674 | 207.2249 | 4530.859 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.583124 | -2.13856 | 2.097449 | 7.976272 | 1.166941 | -.278943 | 2.642837 |
| SDEV | .539484 | 1.67872 | .035742 | .161841 | 1.482377 | 3.256016 | 1.142764 |
| %RSD | 15.05625 | 78.49760 | 1.704068 | 2.029032 | 127.0310 | 1167.268 | 43.24007 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.431029 | -4.05978 | 2.136817 | 7.887746 | -.245563 | -2.41973 | 1.762281 |
| #2 | 3.136015 | -1.40110 | 2.067035 | 7.878004 | 1.035896 | -1.88520 | 3.934218 |
| #3 | 4.182329 | -.954808 | 2.088496 | 8.163065 | 2.710491 | 3.468093 | 2.232011 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .7392628 | 1.171539 | 1.159634 | .5118065 | -.678181 | .1915220 | 1.459220 |
| SDEV | 1.493982 | 2.087945 | 1.682395 | .9201501 | 4.463503 | 2.687750 | .936968 |
| %RSD | 202.0908 | 178.2224 | 145.0799 | 179.7847 | 658.1583 | 1403.364 | 64.21019 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5224556 | .7855223 | -.765350 | .3019922 | -3.78300 | .5637353 | 1.595006 |
| #2 | -.634470 | -.696461 | 1.895667 | -.285317 | -2.68848 | -2.66294 | .4617681 |
| #3 | 2.329803 | 3.425557 | 2.348584 | 1.518745 | 4.436942 | 2.673766 | 2.320887 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|---------|---------|---------|---------|---------|---------|---------|
|--------|---------|---------|---------|---------|---------|---------|---------|

| | | | | | | | |
|------|----------|--|--|--|--|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | .0519231 | 58.24426 | 2719.689 |
| SDEV | .0441552 | 1.66628 | 54.058 |
| %RSD | 85.03963 | 2.860846 | 1.987646 |

| | | | |
|----|----------|----------|----------|
| #1 | .0863502 | 58.33161 | 2716.066 |
| #2 | .0021402 | 59.86514 | 2667.533 |
| #3 | .0672789 | 56.53602 | 2775.467 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CRI

OPERATOR:

RUN TIME: 03/23/09 18:19:08

COMMENT: CRI

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 19.85764 | 443.8943 | 397.7521 | 10.73331 | -182.303 | 10.85143 | 101.9925 |
| SDEV | .13702 | 7.9740 | .3976 | .11759 | 1.182 | .14861 | 1.0790 |
| %RSD | .6900248 | 1.796377 | .0999644 | 1.095537 | .6484199 | 1.369527 | 1.057923 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 19.91796 | 451.0057 | 397.7910 | 10.85248 | -183.304 | 10.99575 | 103.1758 |
| #2 | 19.95416 | 445.4036 | 398.1288 | 10.73006 | -182.605 | 10.69886 | 101.7385 |
| #3 | 19.70081 | 435.2734 | 397.3365 | 10.61738 | -180.999 | 10.85969 | 101.0631 |

| | | | | | | | |
|--------|----------|----------|----------|----------|---------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | NOCHECK | QC PASS | QC PASS |
| VALUE | 20.00000 | 400.0000 | 400.0000 | 10.00000 | | 10.00000 | 100.0000 |
| RANGE | 10.00000 | 200.0000 | 200.0000 | 5.000000 | | 5.000000 | 50.00000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 21.06882 | 50.33866 | 261.0927 | 5.591266 | 3.073305 | 30.40312 | 18.56575 |
| SDEV | .63858 | .30096 | 4.5922 | 1.881251 | 1.622883 | .30775 | 72.01366 |
| %RSD | 3.030919 | .5978618 | 1.758830 | 33.64624 | 52.80578 | 1.012221 | 387.8845 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 21.20883 | 50.09759 | 257.2151 | 6.452426 | 1.472697 | 30.63031 | 77.45061 |
| #2 | 21.62578 | 50.24242 | 266.1638 | 3.433576 | 4.717581 | 30.52615 | -61.7235 |
| #3 | 20.37186 | 50.67596 | 259.8993 | 6.887795 | 3.029636 | 30.05288 | 39.97011 |

| | | | | | | | |
|--------|----------|----------|----------|---------|---------|----------|---------|
| ERRORS | QC PASS | QC PASS | QC PASS | NOCHECK | NOCHECK | QC PASS | NOCHECK |
| VALUE | 20.00000 | 50.00000 | 200.0000 | | | 30.00000 | |
| RANGE | 10.00000 | 25.00000 | 100.0000 | | | 15.00000 | |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 85.02309 | 21.62508 | 99.68890 | 42.14883 | 6.637190 | 9.156472 | 125.9918 |
| SDEV | 1.27644 | 2.42960 | .61946 | .25994 | .725306 | 3.349901 | .7111 |
| %RSD | 1.501285 | 11.23510 | .6213970 | .6167309 | 10.92790 | 36.58506 | .5643974 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 86.34280 | 24.21129 | 99.70730 | 42.17114 | 5.806208 | 12.55975 | 126.7785 |
| #2 | 84.93164 | 19.39038 | 100.2990 | 41.87845 | 6.962296 | 5.862630 | 125.3948 |
| #3 | 83.79485 | 21.27358 | 99.06044 | 42.39690 | 7.143067 | 9.047036 | 125.8021 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 80.00000 | 20.00000 | 100.0000 | 40.00000 | 6.000000 | 10.00000 | 120.0000 |
| RANGE | 40.00000 | 10.00000 | 50.00000 | 20.00000 | 3.000000 | 5.000000 | 60.00000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 22.61007 | 5.419723 | 7.239460 | 9.587937 | 8.936622 | 46.47898 | 51.42268 |
| SDEV | 1.13478 | .966131 | .770299 | 5.614271 | 2.254211 | 1.97258 | .80737 |
| %RSD | 5.018919 | 17.82620 | 10.64029 | 58.55556 | 25.22442 | 4.244029 | 1.570068 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 21.67875 | 4.466184 | 6.469647 | 15.58373 | 11.04558 | 47.29087 | 50.50474 |
| #2 | 22.27748 | 6.397972 | 7.238487 | 4.455113 | 6.560894 | 47.91604 | 52.02268 |
| #3 | 23.87399 | 5.395015 | 8.010245 | 8.724973 | 9.203395 | 44.23002 | 51.74063 |

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|---------|---------|---------|---------|---------|---------|---------|

| | | | | | | | |
|-------|----------|--|--|--|--|----------|----------|
| VALUE | 20.00000 | | | | | 50.00000 | 50.00000 |
| RANGE | 10.00000 | | | | | 25.00000 | 25.00000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|-----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | Q49.12248 | 49.37272 | 2726.933 |
| SDEV | .95044 | .14812 | 7.354 |
| %RSD | 1.934847 | .2999954 | .2696906 |

| | | | |
|----|-----------|----------|----------|
| #1 | Q48.15105 | 49.34797 | 2718.933 |
| #2 | Q49.16594 | 49.23854 | 2728.467 |
| #3 | Q50.05045 | 49.53165 | 2733.400 |

| | | | |
|--------|---------|---------|---------|
| ERRORS | QC FAIL | QC PASS | NOCHECK |
|--------|---------|---------|---------|

| | | | |
|-------|----------|----------|--|
| VALUE | 20.00000 | 50.00000 | |
| RANGE | 10.00000 | 25.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICSA
 RUN TIME: 03/23/09 18:26:04
 COMMENT: ICSA
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.072385 | 244322.8 | 2.525381 | 1.553738 | 252036.9 | 4.179927 | 9.175105 |
| SDEV | .218158 | 394.7 | .048028 | .136012 | 1058.2 | .243030 | .084775 |
| %RSD | 301.3857 | .1615650 | 1.901812 | 8.753852 | .4198505 | 5.814211 | .9239657 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.277476 | 244766.4 | 2.535330 | 1.657540 | 251063.1 | 4.098146 | 9.077255 |
| #2 | .1568344 | 244010.4 | 2.567656 | 1.603907 | 253162.9 | 4.453299 | 9.221626 |
| #3 | -.096513 | 244191.5 | 2.473158 | 1.399768 | 251884.6 | 3.988337 | 9.226435 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | 244100.0 | 2.000000 | .0000000 | 234900.0 | .0000000 | 4.000000 |
| RANGE | 10.00000 | 48820.00 | 400.0000 | 10.00000 | 46980.00 | 10.00000 | 10.00000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 45.02516 | 23.26722 | 97309.37 | 8.942130 | 255412.8 | 20.72144 | 948.2938 |
| SDEV | .38143 | .14888 | 671.30 | .875930 | 1135.5 | .26632 | 15.3075 |
| %RSD | .8471474 | .6398748 | .6898652 | 9.795540 | .4445740 | 1.285258 | 1.614217 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 44.62539 | 23.39110 | 96878.02 | 8.482324 | 255294.4 | 20.49790 | 961.3327 |
| #2 | 45.38512 | 23.10206 | 98082.80 | 9.952217 | 256602.9 | 21.01611 | 931.4394 |
| #3 | 45.06498 | 23.30851 | 96967.27 | 8.391849 | 254341.2 | 20.65032 | 952.1093 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 43.00000 | 23.00000 | 95600.00 | .0000000 | 247500.0 | 19.00000 | .0000000 |
| RANGE | 20.00000 | 10.00000 | 19120.00 | 2000.000 | 49500.00 | 20.00000 | 2000.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 22.39766 | 5.434708 | 1.425571 | 25.68506 | 11.54224 | -2.46650 | 4.725182 |
| SDEV | .41304 | 5.156027 | .400925 | .30187 | .65029 | 1.27434 | 1.412117 |
| %RSD | 1.844105 | 94.87221 | 28.12385 | 1.175269 | 5.634028 | 51.66577 | 29.88492 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 22.74436 | -.301018 | 1.103210 | 25.82993 | 10.80229 | -1.15536 | 5.645759 |
| #2 | 21.94068 | 9.684853 | 1.874508 | 25.88717 | 11.80162 | -2.54360 | 5.430430 |
| #3 | 22.50796 | 6.920288 | 1.298994 | 25.33806 | 12.02282 | -3.70053 | 3.099356 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 21.00000 | .0000000 | 1.000000 | 28.00000 | 10.00000 | .0000000 | .0000000 |
| RANGE | 10.00000 | 20.00000 | 40.00000 | 40.00000 | 6.000000 | 10.00000 | 20.00000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6840704 | -7.04857 | 20.81792 | -2.76308 | -2.32307 | -3.27111 | 4.885907 |
| SDEV | 2.382012 | 1.12385 | .48426 | 3.79596 | .96890 | 1.20344 | 1.085677 |
| %RSD | 348.2116 | 15.94437 | 2.326190 | 137.3814 | 41.70760 | 36.78983 | 22.22058 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.57072 | -8.32742 | 20.34702 | 1.615947 | -2.54357 | -2.26013 | 3.944495 |
| #2 | .4473088 | -6.21823 | 20.79221 | -5.11813 | -1.26292 | -4.60225 | 4.639674 |
| #3 | 3.175622 | -6.60006 | 21.31452 | -4.78707 | -3.16270 | -2.95094 | 6.073552 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 20.00000 | | | | | 100.0000 | 100.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | -.284309 | -1.87472 | 2617.356 |
| SDEV | 1.982387 | .07053 | 12.375 |
| %RSD | 697.2649 | 3.762005 | .4728094 |

| | | | |
|----|----------|----------|----------|
| #1 | .5305218 | -1.81946 | 2622.333 |
| #2 | 1.160814 | -1.95416 | 2603.267 |
| #3 | -2.54426 | -1.85055 | 2626.467 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 100.0000 | 100.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: ICSAB

OPERATOR:

RUN TIME: 03/23/09 18:33:01

COMMENT: ICSAB

MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 204.5482 | 247032.7 | 507.8358 | 494.4829 | 255783.0 | 1015.003 | 503.0313 |
| SDEV | .7278 | 1276.3 | 6.2714 | 3.5549 | 1656.8 | 7.900 | 3.4808 |
| %RSD | .3557880 | .5166525 | 1.234920 | .7189094 | .6477338 | .7783319 | .6919702 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 203.7399 | 246147.5 | 504.7765 | 496.7744 | 257487.1 | 1020.484 | 505.5516 |
| #2 | 204.7533 | 248495.7 | 515.0497 | 496.2866 | 255684.0 | 1018.579 | 499.0597 |
| #3 | 205.1514 | 246454.8 | 503.6812 | 490.3877 | 254178.0 | 1005.948 | 504.4827 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 206.0000 | 241100.0 | 495.0000 | 475.0000 | 231100.0 | 940.0000 | 461.0000 |
| RANGE | 41.20000 | 48220.00 | 400.0000 | 95.00000 | 46220.00 | 188.0000 | 92.20000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 538.5708 | 545.6883 | 98300.62 | 9.186176 | 256350.7 | 524.6561 | 935.8020 |
| SDEV | 3.5065 | 4.6863 | 490.88 | 3.269857 | 654.0 | 2.2745 | 35.1111 |
| %RSD | .6510724 | .8587931 | .4993680 | 35.59541 | .2551327 | .4335277 | 3.751978 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 541.9971 | 540.2889 | 98816.22 | 12.43546 | 256781.9 | 527.2726 | 909.9701 |
| #2 | 538.7261 | 548.6984 | 98246.76 | 5.896126 | 256672.0 | 523.1502 | 921.6564 |
| #3 | 534.9893 | 548.0777 | 97838.90 | 9.226944 | 255598.1 | 523.5457 | 975.7794 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 511.0000 | 548.0000 | 94800.00 | .0000000 | 251100.0 | 502.0000 | .0000000 |
| RANGE | 102.2000 | 109.6000 | 18960.00 | 2000.000 | 50220.00 | 100.4000 | 2000.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1037.037 | 109.2647 | 494.4264 | 1024.236 | 61.86068 | 48.14930 | 634.4749 |
| SDEV | 9.842 | 3.5914 | 2.1003 | 6.193 | 2.54095 | 5.27022 | 6.8488 |
| %RSD | .9490695 | 3.286919 | .4247854 | .6046553 | 4.107532 | 10.94559 | 1.079438 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1046.201 | 105.5300 | 496.3324 | 1031.151 | 59.17692 | 42.49905 | 633.1827 |
| #2 | 1038.277 | 109.5707 | 494.7720 | 1019.200 | 64.22944 | 49.01707 | 641.8777 |
| #3 | 1026.634 | 112.6933 | 492.1747 | 1022.357 | 62.17569 | 52.93179 | 628.3643 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 984.0000 | 103.0000 | 494.0000 | 1028.000 | 61.00000 | 53.00000 | 589.0000 |
| RANGE | 196.8000 | 20.60000 | 98.80000 | 205.6000 | 12.20000 | 10.60000 | 117.8000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 106.1540 | 46.42299 | 69.56271 | 51.44888 | 46.49733 | 1008.592 | 1054.868 |
| SDEV | 1.0671 | 3.29227 | 4.38909 | 4.61256 | 6.59443 | 1.913 | 9.880 |
| %RSD | 1.005232 | 7.091888 | 6.309549 | 8.965321 | 14.18239 | .1896866 | .9365745 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 107.0480 | 45.47662 | 66.01154 | 49.62873 | 38.93488 | 1010.291 | 1055.815 |
| #2 | 106.4414 | 43.70756 | 74.46976 | 48.02410 | 49.50815 | 1006.519 | 1064.240 |
| #3 | 104.9727 | 50.08480 | 68.20686 | 56.69381 | 51.04897 | 1008.964 | 1044.549 |

| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| VALUE | 101.0000 | | | | | 1000.000 | 1000.000 |
| RANGE | 20.20000 | | | | | 200.0000 | 200.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 993.9341 | 989.4712 | 2609.155 |
| SDEV | 10.5807 | 2.7313 | 13.822 |
| %RSD | 1.064523 | .2760412 | .5297308 |

| | | | |
|----|----------|----------|----------|
| #1 | 997.5329 | 988.5131 | 2595.800 |
| #2 | 1002.246 | 992.5525 | 2608.267 |
| #3 | 982.0234 | 987.3480 | 2623.400 |

| ERRORS | QC PASS | QC PASS | NOCHECK |
|--------|----------|----------|---------|
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 200.0000 | 200.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV
 RUN TIME: 03/23/09 18:39:58
 COMMENT: CCV CVS1
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 99.74665 | 50451.82 | 1000.808 | 1013.923 | 51080.67 | 1028.220 | 998.5934 |
| SDEV | .02090 | 440.51 | 4.665 | 9.372 | 595.66 | 9.278 | 10.3696 |
| %RSD | .0209496 | .8731341 | .4660897 | .9243776 | 1.166108 | .9023782 | 1.038425 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 99.75871 | 50480.19 | 1003.264 | 1017.203 | 51405.48 | 1035.025 | 1006.395 |
| #2 | 99.72252 | 50877.46 | 1003.732 | 1021.215 | 51443.32 | 1031.985 | 1002.558 |
| #3 | 99.75871 | 49997.81 | 995.4290 | 1003.352 | 50393.21 | 1017.651 | 986.8263 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1014.268 | 1020.419 | 25151.72 | 53184.97 | 50285.79 | 1003.357 | 51583.84 |
| SDEV | 8.859 | 1.335 | 217.55 | 157.56 | 340.15 | 8.878 | 340.96 |
| %RSD | .8734577 | .1308529 | .8649375 | .2962406 | .6764373 | .8848560 | .6609858 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1013.920 | 1018.878 | 25260.57 | 53158.08 | 50341.61 | 1007.390 | 51546.87 |
| #2 | 1023.297 | 1021.153 | 25293.35 | 53354.25 | 50594.58 | 1009.502 | 51941.78 |
| #3 | 1005.588 | 1021.227 | 24901.23 | 53042.60 | 49921.18 | 993.1775 | 51262.87 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1025.195 | 1026.488 | 989.4323 | 1126.023 | 1020.210 | 1037.917 | 1035.325 |
| SDEV | 8.973 | 10.821 | 14.8241 | 12.057 | 4.777 | 7.011 | 10.313 |
| %RSD | .8752133 | 1.054175 | 1.498242 | 1.070791 | .4682169 | .6755258 | .9961428 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1030.625 | 1029.076 | 994.7753 | 1136.528 | 1019.713 | 1031.808 | 1038.534 |
| #2 | 1030.122 | 1035.781 | 1000.844 | 1128.682 | 1025.215 | 1045.573 | 1043.652 |
| #3 | 1014.839 | 1014.608 | 972.6774 | 1112.858 | 1015.700 | 1036.370 | 1023.788 |

| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1036.713 | 1004.907 | 1027.844 | 1052.143 | 1030.810 | 1023.868 | 1042.428 |
| SDEV | 11.575 | 5.510 | 4.413 | 5.403 | 10.768 | 10.508 | 10.857 |
| %RSD | 1.116541 | .5482726 | .4292997 | .5135294 | 1.044607 | 1.026281 | 1.041470 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1046.813 | 1004.502 | 1027.302 | 1056.084 | 1019.684 | 1035.804 | 1051.700 |
| #2 | 1039.244 | 1010.607 | 1032.502 | 1054.361 | 1041.180 | 1019.787 | 1045.098 |
| #3 | 1024.082 | 999.6106 | 1023.727 | 1045.984 | 1031.566 | 1016.014 | 1030.486 |

| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1004.489 | 999.6268 | 2688.822 |
| SDEV | 11.525 | 9.3607 | 11.908 |
| %RSD | 1.147377 | .9364205 | .4428814 |

| | | | |
|----|----------|----------|----------|
| #1 | 1008.072 | 996.6047 | 2681.066 |
| #2 | 1013.797 | 1010.125 | 2682.867 |
| #3 | 991.5975 | 992.1506 | 2702.533 |

| ERRORS | QC PASS | QC PASS | NOCHECK |
|--------|----------|----------|---------|
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB
RUN TIME: 03/23/09 18:46:55
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.168899 | 51.75876 | .0636949 | .8056486 | -195.728 | .5447158 | .9760492 |
| SDEV | .108578 | 4.36444 | .0531367 | .0583740 | 5.239 | .1485106 | .1861147 |
| %RSD | 64.28571 | 8.432274 | 83.42372 | 7.245586 | 2.676696 | 27.26387 | 19.06817 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.060321 | 52.62149 | .0544399 | .8192901 | -198.341 | .5003834 | 1.184666 |
| #2 | -.168899 | 55.62741 | .0157937 | .8559939 | -199.147 | .7103442 | .9164380 |
| #3 | -.277476 | 47.02738 | .1208511 | .7416619 | -189.697 | .4234199 | .8270433 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .7148998 | -.606034 | 19.79333 | 9.821644 | 20.41250 | .2540194 | -6.77826 |
| SDEV | .1236365 | .093142 | 9.94458 | .727947 | 4.69028 | .0932793 | 91.57825 |
| %RSD | 17.29424 | 15.36912 | 50.24206 | 7.411663 | 22.97749 | 36.72133 | 1351.059 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .6068083 | -.599098 | 11.36444 | 10.31404 | 18.44236 | .1999851 | 95.99656 |
| #2 | .6881797 | -.516553 | 17.25425 | 8.985474 | 17.02862 | .2003442 | -79.7197 |
| #3 | .8497116 | -.702449 | 30.76129 | 10.16542 | 25.76650 | .3617288 | -36.6116 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .5883376 | .4521669 | .2838780 | .3692160 | .8618922 | -.773806 | 1.383940 |
| SDEV | .4241800 | .4178695 | .1765691 | .1737757 | 2.293629 | 1.152306 | 1.211524 |
| %RSD | 72.09807 | 92.41487 | 62.19893 | 47.06613 | 266.1155 | 148.9141 | 87.54166 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2963006 | .6613129 | .4374183 | .1685707 | -1.60634 | -1.94793 | .3349337 |
| #2 | .3938205 | .7241684 | .0909370 | .4715592 | 1.264374 | .3553685 | 2.709991 |
| #3 | 1.074892 | -.028981 | .3232788 | .4675182 | 2.927640 | -.728858 | 1.106894 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.094245 | -1.50636 | 2.039239 | -1.25597 | -.537536 | -1.01195 | .9859400 |
| SDEV | .448642 | .75408 | 3.142000 | 3.60195 | 1.670805 | .62744 | 1.073581 |
| %RSD | 21.42262 | 50.05934 | 154.0771 | 286.7862 | 310.8269 | 62.00299 | 108.8890 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.089414 | -1.97720 | -1.42620 | -1.64794 | -2.10216 | -1.16069 | 2.214892 |
| #2 | 1.648037 | -1.90527 | 2.841798 | 2.525933 | -.732751 | -1.55164 | .5122971 |
| #3 | 2.545283 | -.636623 | 4.702121 | -4.64590 | 1.222302 | -.323502 | .2306314 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.959003 | .4613205 | 2721.489 |
| SDEV | .606651 | .1172912 | 12.979 |
| %RSD | 30.96732 | 25.42510 | .4768969 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.656100 | .5764324 | 2715.333 |
| #2 | 1.670169 | .3419652 | 2712.733 |
| #3 | 1.550739 | .4655640 | 2736.400 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032028-BLK1 OPERATOR:
 RUN TIME: 03/23/09 18:53:52
 COMMENT: SDG:0903121 CLIENTID:PBW 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2292194 | 29.55443 | -.069450 | .6338381 | -206.525 | .2581336 | -.171665 |
| SDEV | .1658551 | 6.54641 | .019234 | .1017396 | .674 | .2547412 | .197637 |
| %RSD | 72.35646 | 22.15036 | 27.69432 | 16.05136 | .3265435 | 98.68578 | 115.1294 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0482567 | 37.10598 | -.047587 | .7009597 | -207.042 | .2486850 | .0560141 |
| #2 | .2654120 | 26.07203 | -.077001 | .6837757 | -206.771 | .0082482 | -.298996 |
| #3 | .3739896 | 25.48528 | -.083763 | .5167790 | -205.763 | .5174677 | -.272013 |

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |
| LOW | -5.000000 | -200.0000 | -200.0000 | -5.000000 | -5000.000 | -5.000000 | -5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .9058901 | -1.43945 | 25.86548 | 5.919713 | 5.183408 | .1190053 | 514.7356 |
| SDEV | .5459124 | .27905 | 10.08030 | .610595 | 1.848738 | .0829590 | 16.6754 |
| %RSD | 60.26255 | 19.38605 | 38.97202 | 10.31460 | 35.66645 | 69.71033 | 3.239604 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4411140 | -1.44629 | 17.38063 | 6.613757 | 3.776677 | .0367557 | 498.3002 |
| #2 | .7694857 | -1.71502 | 23.20733 | 5.680173 | 4.496212 | .1176043 | 514.2654 |
| #3 | 1.507070 | -1.15704 | 37.00848 | 5.465208 | 7.277336 | .2026559 | 531.6410 |

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |
| LOW | -5.000000 | -5.000000 | -100.0000 | -5000.000 | -5000.000 | -10.00000 | -5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|-----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.610026 | -5.22394 | .2914858 | .9315457 | H4.219736 | -.638357 | 5.661672 |
| SDEV | .447853 | 1.24782 | .1807445 | .3057786 | .338901 | .717037 | 1.210554 |
| %RSD | 73.41540 | 23.88649 | 62.00800 | 32.82487 | 8.031337 | 112.3254 | 21.38156 |

| | | | | | | | |
|----|----------|----------|----------|----------|-----------|----------|----------|
| #1 | -1.04387 | -4.78972 | .4471663 | .9353510 | H3.828534 | -1.19928 | 6.832563 |
| #2 | -.636835 | -6.63085 | .0932659 | .6238821 | H4.406710 | .1695181 | 4.415015 |
| #3 | -.149371 | -4.25124 | .3340252 | 1.235404 | H4.423965 | -.885307 | 5.737438 |

| | | | | | | | |
|--------|------------|------------|------------|------------|-----------|-----------|------------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC HIGH | LC PASS | LC PASS |
| HIGH | 40.000000 | 10.000000 | 20.000000 | 20.000000 | 3.000000 | 5.000000 | 10.000000 |
| LOW | -40.000000 | -10.000000 | -20.000000 | -20.000000 | -3.000000 | -5.000000 | -10.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -1.05752 | 8.202931 | 2.226076 | -10.0298 | 4.045831 | -1.39162 | 1.238343 |
| SDEV | 2.44835 | .815166 | .362505 | 2.9056 | .869124 | 1.05995 | .823116 |
| %RSD | 231.5182 | 9.937497 | 16.28448 | 28.96964 | 21.48195 | 76.16652 | 66.46912 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.37935 | 7.554598 | 1.963220 | -10.3845 | 3.381916 | -.700504 | .5268843 |
| #2 | 1.535828 | 7.936129 | 2.639620 | -6.96314 | 3.726031 | -.862388 | 1.048280 |
| #3 | -3.32904 | 9.118066 | 2.075387 | -12.7418 | 5.029547 | -2.61197 | 2.139864 |

| | | | | | | | |
|--------|------------|---------|---------|---------|---------|-----------|-----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10.000000 | | | | | 100.0000 | 50.00000 |
| LOW | -10.000000 | | | | | -100.0000 | -50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.683869 | .0372906 | 2697.844 |
| SDEV | .203798 | .1493238 | 12.848 |
| %RSD | 12.10298 | 400.4333 | .4762506 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.696092 | -.134152 | 2684.400 |
| #2 | 1.474234 | .1070992 | 2710.000 |
| #3 | 1.881280 | .1389244 | 2699.133 |

| | | | |
|--------|-----------|------------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 5.000000 | 40.000000 | |
| LOW | -5.000000 | -40.000000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032028-BS1 OPERATOR:
 RUN TIME: 03/23/09 19:00:49
 COMMENT: SDG:0903121 CLIENTID:LCSW 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 998.4195 | 20506.26 | 20124.57 | 508.7412 | 50990.48 | 509.7787 | 5032.558 |
| SDEV | 5.1032 | 98.56 | 170.82 | .5854 | 130.72 | .8316 | 15.460 |
| %RSD | .5111258 | .4806441 | .8488324 | .1150699 | .2563619 | .1631222 | .3072036 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 993.3164 | 20509.83 | 20212.71 | 509.0818 | 50940.43 | 509.1199 | 5049.322 |
| #2 | 998.4195 | 20405.97 | 20233.32 | 509.0767 | 50892.18 | 509.5031 | 5018.861 |
| #3 | 1003.523 | 20602.99 | 19927.68 | 508.0653 | 51138.83 | 510.7131 | 5029.492 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 1200.000 | 24000.00 | 24000.00 | 600.0000 | 60000.00 | 600.0000 | 6000.000 |
| LOW | 800.0000 | 16000.00 | 16000.00 | 400.0000 | 40000.00 | 400.0000 | 4000.000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1028.726 | 2614.206 | 9928.267 | 53091.95 | 49643.16 | 1519.119 | 51900.92 |
| SDEV | 1.867 | 13.235 | 16.388 | 292.25 | 68.62 | 3.171 | 206.21 |
| %RSD | .1815044 | .5062613 | .1650599 | .5504569 | .1382348 | .2087308 | .3973069 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1030.144 | 2601.998 | 9946.919 | 53351.94 | 49684.17 | 1521.045 | 51902.53 |
| #2 | 1026.610 | 2612.350 | 9921.703 | 53148.26 | 49563.94 | 1515.459 | 51693.91 |
| #3 | 1029.424 | 2628.271 | 9916.179 | 52775.64 | 49681.38 | 1520.852 | 52106.31 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 1200.000 | 3000.000 | 12000.00 | 60000.00 | 60000.00 | 1800.000 | 60000.00 |
| LOW | 800.0000 | 2000.000 | 8000.000 | 40000.00 | 40000.00 | 1200.000 | 40000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4078.066 | 1005.482 | 5022.912 | 2040.882 | 304.0416 | 475.8847 | 6092.975 |
| SDEV | 12.587 | 4.287 | 57.969 | 7.866 | 3.0077 | 1.5519 | 36.647 |
| %RSD | .3086464 | .4263893 | 1.154090 | .3854181 | .9892344 | .3261172 | .6014583 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4083.010 | 1005.669 | 4989.363 | 2043.100 | 301.6310 | 474.9448 | 6109.211 |
| #2 | 4087.431 | 1009.672 | 4989.523 | 2032.146 | 307.4121 | 477.6760 | 6118.699 |
| #3 | 4063.758 | 1001.104 | 5089.848 | 2047.401 | 303.0818 | 475.0332 | 6051.015 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 4800.000 | 1200.000 | 6000.000 | 2400.000 | 360.0000 | 600.0000 | 7200.000 |
| LOW | 3200.000 | 800.0000 | 4000.000 | 1600.000 | 240.0000 | 400.0000 | 4800.000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1001.435 | 304.3594 | 303.8769 | 468.0147 | 479.8091 | 1010.235 | 1036.141 |
| SDEV | 4.349 | 3.5808 | 4.1319 | 2.6032 | 1.5425 | 7.341 | 4.601 |
| %RSD | .4343104 | 1.176505 | 1.359713 | .5562242 | .3214876 | .7266607 | .4440724 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 999.7098 | 305.9368 | 299.4744 | 468.3817 | 478.2168 | 1012.198 | 1040.882 |
| #2 | 1006.383 | 306.8806 | 307.6705 | 470.4150 | 481.2964 | 1002.112 | 1035.847 |
| #3 | 998.2136 | 300.2607 | 304.4858 | 465.2475 | 479.9142 | 1016.395 | 1031.693 |

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|---------|---------|---------|---------|---------|---------|---------|

| | | | | | | | |
|------|----------|--|--|--|--|----------|----------|
| HIGH | 1200.000 | | | | | 1205.000 | 1205.000 |
| LOW | 800.0000 | | | | | 795.0000 | 795.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1028.958 | 1014.043 | 2648.666 |
| SDEV | 5.363 | 2.984 | 16.553 |
| %RSD | .5211967 | .2942341 | .6249692 |

| | | | |
|----|----------|----------|----------|
| #1 | 1028.182 | 1014.523 | 2631.400 |
| #2 | 1034.667 | 1016.758 | 2650.200 |
| #3 | 1024.026 | 1010.848 | 2664.400 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 1205.000 | 1205.000 | |
| LOW | 795.0000 | 795.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903121-01 OPERATOR:
RUN TIME: 03/23/09 19:07:46
COMMENT: SDG:0903121 CLIENTID:BC-17 1:1
MODE: CONC CORR. FACTOR: 1

Table with 8 columns: ELEM, UNITS, AG3280, AL3082, BA4934, BE3130, CA3179, CD2265, CO2286. Rows include AVGE, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each sample.

Table with 8 columns: ERRORS, HIGH, LOW. Rows include LC PASS and numerical values.

Table with 8 columns: ELEM, UNITS, CR2677, CU3247, FE2714, K_7664, MG2790, MN2576, NA3302. Rows include AVGE, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each sample.

Table with 8 columns: ERRORS, HIGH, LOW. Rows include LC PASS and numerical values.

Table with 8 columns: ELEM, UNITS, NI2316, TL1908, V_2924, ZN2062, PB2203, SE1960, SB2068. Rows include AVGE, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each sample.

Table with 8 columns: ERRORS, HIGH, LOW. Rows include LC PASS and numerical values.

Table with 8 columns: ELEM, UNITS, AS1890, 22031, 22032, 19601, 19602, SN1899, BI2230. Rows include AVGE, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each sample.

Table with 8 columns: ERRORS, HIGH, LOW. Rows include LC PASS, NOCHECK, and numerical values.

Table with 8 columns: ELEM, UNITS, MO2020, TI3349, Y_3710. Rows include AVGE, SDEV, and %RSD values.

Table with 8 columns: #1, #2, #3. Rows include numerical values for each sample.

Table with 8 columns: ERRORS, HIGH, LOW. Rows include LC PASS, NOCHECK, and numerical values.

METHOD: ALT-P4Q1 SAMPLE NAME: 9032028-DUP1 OPERATOR:
 RUN TIME: 03/23/09 19:14:42
 COMMENT: SDG:0903121 CLIENTID:BC-17D 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1568344 | 119.0564 | 80.64495 | .5174438 | 8341.518 | .3310440 | 2.444389 |
| SDEV | .3317101 | 5.6316 | .48017 | .0829579 | 56.469 | .1072442 | .406245 |
| %RSD | 211.5035 | 4.730228 | .5954127 | 16.03226 | .6769595 | 32.39574 | 16.61950 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.205091 | 112.6468 | 80.10953 | .4539389 | 8286.645 | .3716166 | 1.984737 |
| #2 | .2292194 | 123.2117 | 81.03741 | .6113039 | 8338.452 | .4120825 | 2.593125 |
| #3 | .4463747 | 121.3107 | 80.78790 | .4870885 | 8399.457 | .2094329 | 2.755304 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 6.933897 | -.247890 | 30.63059 | 982.1577 | 3821.801 | 28.41923 | 11830.31 |
| SDEV | .144616 | .148940 | 10.06774 | 1.8753 | 16.540 | .38376 | 29.86 |
| %RSD | 2.085633 | 60.08299 | 32.86825 | .1909354 | .4327735 | 1.350354 | .2524235 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 6.805660 | -.289325 | 19.50206 | 980.2355 | 3805.651 | 28.05302 | 11796.38 |
| #2 | 6.905387 | -.082620 | 39.10624 | 982.2553 | 3821.047 | 28.38625 | 11852.61 |
| #3 | 7.090645 | -.371725 | 33.28349 | 983.9823 | 3838.705 | 28.81842 | 11841.94 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.691439 | -4.36802 | .2220829 | 6.139578 | 4.120811 | -1.03732 | 8.557405 |
| SDEV | .864990 | 2.22146 | .4249882 | .383893 | .824360 | 2.45314 | .435148 |
| %RSD | 8.925300 | 50.85750 | 191.3647 | 6.252765 | 20.00480 | 236.4883 | 5.085049 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 9.858564 | -1.83262 | -.133522 | 6.576226 | 4.896787 | -3.12907 | 8.677386 |
| #2 | 8.755081 | -5.29847 | .1070133 | 5.987421 | 4.210279 | 1.662740 | 8.919976 |
| #3 | 10.46067 | -5.97296 | .6927572 | 5.855088 | 3.255366 | -1.64563 | 8.074855 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.839674 | 6.711951 | 2.822140 | -11.6084 | 4.235837 | -.016740 | .7015813 |
| SDEV | 2.830767 | 2.154494 | 1.264512 | 4.0884 | 3.871964 | .493800 | .6244270 |
| %RSD | 337.1268 | 32.09936 | 44.80683 | 35.21923 | 91.40967 | 2949.904 | 89.00280 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.917755 | 6.224623 | 4.228836 | -15.3670 | 2.976242 | .2991951 | .3350806 |
| #2 | -.698296 | 9.068369 | 1.779834 | -12.2031 | 8.580762 | .2363621 | 1.422574 |
| #3 | -3.73848 | 4.842862 | 2.457749 | -7.25530 | 1.150507 | -.585776 | .3470891 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.117783 | .1618063 | 2701.666 |
| SDEV | .254266 | .1113769 | 8.310 |
| %RSD | 22.74731 | 68.83350 | .3075835 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.078562 | .0511214 | 2709.733 |
| #2 | .8854070 | .2738626 | 2702.133 |
| #3 | 1.389380 | .1604348 | 2693.133 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032028-MS1 OPERATOR:
 RUN TIME: 03/23/09 19:21:39
 COMMENT: SDG:0903121 CLIENTID:BC-17S 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 47.33984 | 2105.691 | 2081.817 | 51.18016 | 8134.758 | 51.81943 | 500.9843 |
| SDEV | .30136 | 18.253 | 11.505 | .24721 | 92.014 | .62135 | 5.0178 |
| %RSD | .6365948 | .8668632 | .5526418 | .4830188 | 1.131126 | 1.199059 | 1.001587 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 47.24333 | 2088.998 | 2092.374 | 50.90059 | 8029.891 | 51.36528 | 495.2483 |
| #2 | 47.09856 | 2102.893 | 2069.554 | 51.36989 | 8172.404 | 51.56547 | 503.1445 |
| #3 | 47.67764 | 2125.182 | 2083.523 | 51.26999 | 8201.980 | 52.52752 | 504.5603 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 210.5323 | 259.2638 | 1027.361 | 968.3467 | 3747.651 | 529.7719 | 11583.66 |
| SDEV | 1.8543 | 1.6775 | 8.914 | 2.7913 | 25.105 | 4.4979 | 192.63 |
| %RSD | .8807725 | .6470141 | .8676577 | .2882534 | .6698769 | .8490260 | 1.662973 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 209.4707 | 257.5338 | 1018.952 | 968.7165 | 3726.120 | 527.0551 | 11484.69 |
| #2 | 209.4528 | 259.3742 | 1026.423 | 965.3889 | 3741.608 | 527.2968 | 11460.63 |
| #3 | 212.6735 | 260.8833 | 1036.706 | 970.9346 | 3775.226 | 534.9638 | 11805.66 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 514.3444 | 45.00944 | 501.2617 | 519.0320 | 22.98963 | 8.148880 | 498.5556 |
| SDEV | 2.4090 | 1.92192 | 3.3894 | 5.3102 | 1.62619 | 1.692845 | .1922 |
| %RSD | .4683696 | 4.270042 | .6761655 | 1.023093 | 7.073559 | 20.77396 | .0385556 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 511.6401 | 47.05862 | 497.5298 | 513.7213 | 22.15218 | 7.855687 | 498.5072 |
| #2 | 515.1321 | 44.72269 | 502.1065 | 519.0329 | 21.95286 | 6.621781 | 498.7674 |
| #3 | 516.2610 | 43.24700 | 504.1487 | 524.3417 | 24.86386 | 9.969171 | 498.3922 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 39.74749 | 27.63764 | 20.66409 | -2.96772 | 13.69438 | 987.4658 | 1000.279 |
| SDEV | .15786 | 1.11352 | 2.03080 | 3.34325 | .98077 | 7.1850 | 4.102 |
| %RSD | .3971506 | 4.028994 | 9.827678 | 112.6541 | 7.161865 | .7276227 | .4100981 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 39.62139 | 27.89961 | 19.27775 | -4.37108 | 13.95544 | 979.9452 | 1003.361 |
| #2 | 39.92453 | 26.41649 | 19.71936 | -5.38056 | 12.60949 | 988.1921 | 995.6232 |
| #3 | 39.69656 | 28.59682 | 22.99515 | .8484915 | 14.51820 | 994.2601 | 1001.853 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1010.130 | 997.3816 | 2711.711 |
| SDEV | 1.836 | 7.5126 | .934 |
| %RSD | .1818028 | .7532350 | .0344481 |

| | | | |
|----|----------|----------|----------|
| #1 | 1008.020 | 988.7630 | 2712.467 |
| #2 | 1010.994 | 1002.545 | 2712.000 |
| #3 | 1011.374 | 1000.837 | 2710.666 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032028-MSD1 OPERATOR:
 RUN TIME: 03/23/09 19:28:35
 COMMENT: SDG:0903121 CLIENTID:BC-17SD 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 47.94305 | 2107.483 | 2091.472 | 51.48576 | 8163.696 | 51.99354 | 505.1810 |
| SDEV | .14627 | 17.346 | 25.331 | .29918 | 66.880 | .86558 | 1.6436 |
| %RSD | .3050951 | .8230761 | 1.211177 | .5810965 | .8192374 | 1.664793 | .3253547 |
| #1 | 47.78622 | 2113.550 | 2083.112 | 51.54906 | 8129.746 | 51.75426 | 506.9190 |
| #2 | 48.07576 | 2120.980 | 2119.927 | 51.74823 | 8240.742 | 52.95359 | 504.9722 |
| #3 | 47.96718 | 2087.918 | 2071.377 | 51.15999 | 8120.601 | 51.27277 | 503.6517 |
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 214.7738 | 260.1189 | 1048.333 | 961.5804 | 3751.561 | 536.0473 | 11525.40 |
| SDEV | 2.4053 | .5577 | 23.063 | 7.0907 | 41.628 | 5.3794 | 93.20 |
| %RSD | 1.119904 | .2143936 | 2.199961 | .7374033 | 1.109609 | 1.003522 | .8086569 |
| #1 | 214.8077 | 260.5109 | 1045.362 | 969.6962 | 3762.867 | 540.6295 | 11629.26 |
| #2 | 217.1620 | 259.4804 | 1072.737 | 958.4598 | 3786.369 | 537.3879 | 11497.90 |
| #3 | 212.3518 | 260.3654 | 1026.900 | 956.5851 | 3705.449 | 530.1244 | 11449.05 |
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 519.8938 | 46.74458 | 504.6026 | 524.2120 | 23.10722 | 8.659029 | 504.9776 |
| SDEV | 4.1674 | 1.73439 | 6.1917 | 4.0779 | .45988 | .098094 | 3.1634 |
| %RSD | .8015879 | 3.710356 | 1.227053 | .7779157 | 1.990217 | 1.132852 | .6264460 |
| #1 | 516.6916 | 44.85229 | 502.4965 | 524.7163 | 23.04743 | 8.667358 | 501.9073 |
| #2 | 524.6056 | 47.12283 | 511.5726 | 528.0143 | 22.68015 | 8.752693 | 508.2266 |
| #3 | 518.3842 | 48.25864 | 499.7386 | 519.9054 | 23.59407 | 8.557036 | 504.7988 |
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 41.49812 | 25.63055 | 21.84261 | -2.00437 | 13.97828 | 995.9084 | 1006.057 |
| SDEV | 2.35662 | 1.85416 | 1.20446 | 1.24376 | .76117 | 10.7317 | 6.308 |
| %RSD | 5.678871 | 7.234163 | 5.514253 | 62.05246 | 5.445383 | 1.077583 | .6270243 |
| #1 | 41.00909 | 27.77109 | 20.68410 | -1.62687 | 13.80228 | 1006.681 | 1002.540 |
| #2 | 44.06090 | 24.52223 | 21.75545 | -3.39315 | 14.81203 | 995.8263 | 1013.339 |
| #3 | 39.42439 | 24.59832 | 23.08828 | -.993096 | 13.32052 | 985.2179 | 1002.290 |
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |
| ELEM | MO2020 | TI3349 | Y_3710 | | | | |
| UNITS | UG/L | UG/L | PPM | | | | |
| AVGE | 1028.670 | 1010.523 | 2715.822 | | | | |
| SDEV | 13.557 | .940 | 21.635 | | | | |
| %RSD | 1.317891 | .0930686 | .7966315 | | | | |
| #1 | 1015.042 | 1010.316 | 2702.933 | | | | |
| #2 | 1042.155 | 1011.550 | 2703.733 | | | | |
| #3 | 1028.812 | 1009.703 | 2740.800 | | | | |
| ERRORS | LC PASS | LC PASS | NOCHECK | | | | |
| HIGH | 30000.00 | 40000.00 | | | | | |
| LOW | -10.0000 | -30.0000 | | | | | |

METHOD: ALT-P4Q1 SAMPLE NAME: SDI0903121-01 OPERATOR:
 RUN TIME: 03/23/09 19:35:31
 COMMENT: SDG:0903121 CLIENTID:BC-17L 1:5
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.048257 | 66.16645 | 16.15769 | .7452723 | 1521.839 | .4039945 | .6179836 |
| SDEV | .205800 | 4.48773 | .12485 | .1095671 | 3.894 | .0863075 | .1436392 |
| %RSD | 426.4681 | 6.782481 | .7726896 | 14.70162 | .2558805 | 21.36353 | 23.24321 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1206418 | 65.27401 | 16.25429 | .7476215 | 1524.852 | .3529355 | .5387611 |
| #2 | .0120642 | 62.19200 | 16.01672 | .6345496 | 1517.442 | .3554044 | .5314003 |
| #3 | -.277476 | 71.03335 | 16.20207 | .8536460 | 1523.223 | .5036436 | .7837894 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.772051 | -.475263 | 29.18513 | 184.4277 | 804.0222 | 5.859619 | 2362.484 |
| SDEV | .128096 | .230131 | 2.90018 | 2.1382 | 5.0081 | .030660 | 53.330 |
| %RSD | 7.228693 | 48.42171 | 9.937182 | 1.159347 | .6228765 | .5232418 | 2.257359 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.662802 | -.433937 | 29.83666 | 184.4908 | 802.6862 | 5.828440 | 2421.725 |
| #2 | 1.740322 | -.268596 | 31.70412 | 182.2587 | 799.8176 | 5.889732 | 2347.421 |
| #3 | 1.913030 | -.723257 | 26.01460 | 186.5336 | 809.5627 | 5.860684 | 2318.305 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.957540 | -3.53661 | -.021177 | 1.908323 | .6683950 | -.917286 | 2.118390 |
| SDEV | .509600 | .20146 | .115921 | .490115 | .3517025 | 1.357902 | .890832 |
| %RSD | 26.03269 | 5.696466 | 547.3917 | 25.68303 | 52.61896 | 148.0348 | 42.05232 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.542666 | -3.31941 | -.020894 | 2.258201 | .2631211 | .5336921 | 1.488414 |
| #2 | 1.611002 | -3.71735 | .0946024 | 1.348154 | .8936028 | -2.15745 | 1.729155 |
| #3 | 1.718952 | -3.57306 | -.137240 | 2.118615 | .8484612 | -1.12810 | 3.137601 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -1.33821 | .4073994 | .7936873 | -2.22849 | -.267120 | 1.970111 | .6882822 |
| SDEV | 3.30616 | 1.649849 | .7414082 | 1.44200 | 1.357191 | 1.569609 | .8638386 |
| %RSD | 247.0594 | 404.9708 | 93.41314 | 64.70753 | 508.0834 | 79.67110 | 125.5065 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -4.65050 | -.591055 | .6845618 | -.574120 | 1.082317 | 3.641777 | .2372662 |
| #2 | 1.961793 | -.498478 | 1.583611 | -3.21896 | -1.63193 | 1.740760 | .1432998 |
| #3 | -1.32591 | 2.311731 | .1128897 | -2.89240 | -.251742 | .5277953 | 1.684281 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.813893 | .3166463 | 2719.555 |
| SDEV | .472403 | .0831634 | 12.124 |
| %RSD | 16.78823 | 26.26382 | .4458167 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.043229 | .2313052 | 2721.267 |
| #2 | 3.127848 | .3211878 | 2730.733 |
| #3 | 2.270601 | .3974459 | 2706.666 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: PDS0903121-01 OPERATOR:
 RUN TIME: 03/23/09 19:42:27
 COMMENT: SDG:0903121 CLIENTID:BC-17A 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 48.57039 | 1105.071 | 1064.409 | 25.44170 | 8261.457 | 25.79985 | 249.6119 |
| SDEV | .36612 | 6.138 | 2.725 | .05903 | 30.083 | .20327 | 1.7150 |
| %RSD | .7538023 | .5554315 | .2559864 | .2320037 | .3641364 | .7878792 | .6870714 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 48.14814 | 1105.340 | 1066.495 | 25.37406 | 8251.459 | 25.66944 | 248.3133 |
| #2 | 48.79961 | 1098.803 | 1065.407 | 25.46830 | 8237.646 | 26.03406 | 248.9665 |
| #3 | 48.76342 | 1111.070 | 1061.326 | 25.48275 | 8295.266 | 25.69603 | 251.5560 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 56.45861 | 126.1970 | 529.0467 | 970.5627 | 3809.087 | 102.8591 | 11656.69 |
| SDEV | .49054 | .4060 | 15.6617 | 1.5731 | 25.684 | 1.4581 | 59.32 |
| %RSD | .8688559 | .3216934 | 2.960363 | .1620811 | .6742880 | 1.417598 | .5089111 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 55.93460 | 125.7283 | 534.9986 | 970.8774 | 3791.605 | 101.7349 | 11718.10 |
| #2 | 56.53436 | 126.4307 | 511.2816 | 968.8561 | 3797.080 | 102.3359 | 11599.70 |
| #3 | 56.90687 | 126.4321 | 540.8599 | 971.9547 | 3838.575 | 104.5067 | 11652.27 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 213.1486 | 43.03957 | 246.3447 | 107.2099 | 17.76148 | 22.89237 | 302.7912 |
| SDEV | 1.3684 | 3.10346 | 2.5371 | .7576 | 1.05212 | 3.80954 | 1.2984 |
| %RSD | .6419808 | 7.210709 | 1.029913 | .7066961 | 5.923630 | 16.64107 | .4287973 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 211.7293 | 45.03182 | 245.0169 | 106.5503 | 17.05118 | 22.01306 | 302.2232 |
| #2 | 213.2568 | 39.46379 | 244.7470 | 107.0421 | 18.97019 | 19.59938 | 304.2768 |
| #3 | 214.4596 | 44.62312 | 249.2702 | 108.0374 | 17.26307 | 27.06468 | 301.8736 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 48.50540 | 20.53661 | 16.37039 | 13.55525 | 27.54946 | -.656408 | .7588041 |
| SDEV | 1.07535 | 1.12914 | 1.08612 | 5.41544 | 3.08355 | 1.098187 | .6775736 |
| %RSD | 2.216974 | 5.498182 | 6.634646 | 39.95087 | 11.19278 | 167.3025 | 89.29493 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 47.63919 | 19.41150 | 15.86717 | 13.37917 | 26.31904 | .1536649 | 1.418393 |
| #2 | 49.70898 | 21.66974 | 17.61685 | 8.229995 | 25.27108 | -.216547 | .0645748 |
| #3 | 48.16802 | 20.52859 | 15.62715 | 19.05658 | 31.05825 | -1.90634 | .7934444 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.083377 | .0013424 | 2703.400 |
| SDEV | .345072 | .0725593 | 5.859 |
| %RSD | 31.85150 | 5405.196 | .2167443 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.286695 | .0037580 | 2696.733 |
| #2 | 1.278486 | -.072394 | 2707.733 |
| #3 | .6849508 | .0726637 | 2705.733 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903121-02 OPERATOR:
 RUN TIME: 03/23/09 19:49:23
 COMMENT: SDG:0903121 CLIENTID:BC-17 DUP 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1568344 | 116.3637 | 79.93439 | .4980114 | 8241.705 | .2114033 | 2.718573 |
| SDEV | .3452548 | 4.7264 | .34854 | .1320078 | 67.067 | .1236339 | .201002 |
| %RSD | 220.1398 | 4.061756 | .4360352 | 26.50699 | .8137565 | 58.48248 | 7.393659 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.205091 | 121.0581 | 79.60689 | .6339428 | 8165.415 | .0892357 | 2.687924 |
| #2 | .1930269 | 111.6059 | 80.30072 | .3703126 | 8268.319 | .3364530 | 2.534656 |
| #3 | .4825672 | 116.4271 | 79.89556 | .4897786 | 8291.380 | .2085212 | 2.933139 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.438517 | -.509664 | 23.95325 | 956.7242 | 3772.856 | 28.00866 | 11545.03 |
| SDEV | .116828 | .156435 | 1.12579 | 2.7737 | 16.534 | .23318 | 148.42 |
| %RSD | 2.148154 | 30.69365 | 4.699937 | .2899194 | .4382468 | .8325358 | 1.285565 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.337125 | -.619905 | 23.30153 | 959.1476 | 3755.140 | 27.80253 | 11687.71 |
| #2 | 5.566275 | -.330620 | 23.30502 | 953.6990 | 3775.550 | 27.96169 | 11391.47 |
| #3 | 5.412151 | -.578467 | 25.25319 | 957.3262 | 3787.878 | 28.26175 | 11555.90 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.109415 | -5.36063 | .0987386 | 5.909808 | 2.609186 | -1.74262 | 7.367063 |
| SDEV | .531233 | 1.70668 | .2018712 | .313079 | 1.602254 | 2.73001 | 2.103463 |
| %RSD | 5.831689 | 31.83730 | 204.4502 | 5.297617 | 61.40820 | 156.6610 | 28.55225 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.632811 | -4.04588 | -.017580 | 5.667012 | 4.413896 | .4397109 | 5.005153 |
| #2 | 9.682149 | -7.28935 | -.018043 | 5.799244 | 2.059654 | -4.80382 | 9.038517 |
| #3 | 9.013287 | -4.74664 | .3318393 | 6.263167 | 1.354008 | -.863759 | 8.057520 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .5762900 | 6.242112 | .7904264 | -14.2525 | 4.498480 | -.891020 | .8745814 |
| SDEV | 1.356782 | .720165 | 2.360967 | 6.5706 | 1.357906 | 1.967276 | 1.446708 |
| %RSD | 235.4339 | 11.53721 | 298.6953 | 46.10112 | 30.18590 | 220.7891 | 165.4172 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.173786 | 6.574825 | 3.330024 | -10.8391 | 6.066211 | -2.62874 | 2.402848 |
| #2 | 2.142503 | 5.415744 | .3791132 | -21.8272 | 3.690676 | -1.28921 | -.473730 |
| #3 | -.239847 | 6.735766 | -1.33786 | -10.0911 | 3.738552 | 1.244892 | .6946262 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .6805261 | .1151735 | 2714.422 |
| SDEV | .6196400 | .0338097 | 4.404 |
| %RSD | 91.05309 | 29.35540 | .1622530 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.375547 | .1070326 | 2710.133 |
| #2 | .4801990 | .0861776 | 2718.933 |
| #3 | .1858320 | .1523104 | 2714.200 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903121-03 OPERATOR:
 RUN TIME: 03/23/09 19:56:19
 COMMENT: SDG:0903121 CLIENTID:IC-12 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.048257 | 748.5770 | 38.07751 | .8277199 | 38247.01 | .4689444 | .8684247 |
| SDEV | .261823 | 2.6937 | .17518 | .0228344 | 127.03 | .2573586 | .0788910 |
| %RSD | 542.5634 | .3598400 | .4600588 | 2.758715 | .3321181 | 54.88041 | 9.084379 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.349861 | 751.6150 | 38.09581 | .8412788 | 38105.04 | .1734919 | .7879061 |
| #2 | .0844493 | 746.4802 | 38.24283 | .8013566 | 38286.08 | .6443170 | .8717877 |
| #3 | .1206418 | 747.6357 | 37.89391 | .8405244 | 38349.91 | .5890243 | .9455805 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.593684 | -.481916 | 1706.149 | 845.9657 | 4303.295 | 18.97626 | 19255.82 |
| SDEV | .360058 | .083677 | 12.722 | 4.6644 | 28.235 | .15420 | 38.27 |
| %RSD | 22.59278 | 17.36345 | .7456365 | .5513670 | .6561359 | .8126053 | .1987584 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.759811 | -.495647 | 1692.677 | 851.3509 | 4272.480 | 18.82230 | 19289.97 |
| #2 | 1.840686 | -.557879 | 1717.956 | 843.3506 | 4309.477 | 19.13071 | 19263.03 |
| #3 | 1.180556 | -.392223 | 1707.815 | 843.1956 | 4327.927 | 18.97577 | 19214.45 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.069286 | -3.33515 | .9179494 | 6.663000 | 3.698280 | -.935871 | 7.112552 |
| SDEV | .496359 | 2.19694 | .2923979 | .218072 | .816047 | .529748 | 1.062026 |
| %RSD | 716.3940 | 65.87221 | 31.85338 | 3.272883 | 22.06559 | 56.60477 | 14.93171 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.549503 | -5.45446 | .8762873 | 6.628069 | 2.965656 | -1.49693 | 8.280045 |
| #2 | .4417756 | -1.06805 | .6486173 | 6.464501 | 4.577798 | -.866400 | 6.203817 |
| #3 | -.100130 | -3.48295 | 1.228944 | 6.896429 | 3.551386 | -.444287 | 6.853793 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2531706 | 6.977579 | 2.056020 | -11.6949 | 4.431088 | -1.39831 | .3100293 |
| SDEV | 1.304357 | 1.833016 | .313534 | 1.4815 | 1.506692 | .40701 | .7727017 |
| %RSD | 515.2088 | 26.27009 | 15.24959 | 12.66823 | 34.00275 | 29.10699 | 249.2351 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.08637 | 5.405876 | 1.742295 | -9.98509 | 2.736275 | -1.23233 | 1.096083 |
| #2 | .3266462 | 8.991136 | 2.369364 | -12.5020 | 4.938158 | -1.86207 | .2825941 |
| #3 | 1.519237 | 6.535725 | 2.056399 | -12.5977 | 5.618829 | -1.10052 | -.448589 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .5612705 | 14.90989 | 2688.200 |
| SDEV | .5114816 | 1.88088 | 7.100 |
| %RSD | 91.12923 | 12.61500 | .2641220 |

| | | | |
|----|----------|----------|----------|
| #1 | -.002428 | 13.45374 | 2682.267 |
| #2 | .9957514 | 17.03347 | 2686.267 |
| #3 | .6904882 | 14.24245 | 2696.066 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV
 RUN TIME: 03/23/09 20:03:16
 COMMENT: CCV CVS1
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 101.2909 | 50695.39 | 1004.397 | 1021.324 | 51642.08 | 1031.983 | 1005.148 |
| SDEV | .2211 | 335.26 | 5.809 | 5.917 | 266.00 | 3.193 | 6.889 |
| %RSD | .2183223 | .6613157 | .5783535 | .5793733 | .5150798 | .3093775 | .6853769 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 101.0978 | 50372.90 | 1010.928 | 1018.049 | 51452.34 | 1028.308 | 1003.249 |
| #2 | 101.2426 | 51042.10 | 999.8084 | 1028.155 | 51946.12 | 1033.568 | 999.4078 |
| #3 | 101.5322 | 50671.16 | 1002.454 | 1017.768 | 51527.78 | 1034.072 | 1012.788 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1017.957 | 1030.402 | 25227.16 | 53204.85 | 50783.95 | 1010.673 | 51874.28 |
| SDEV | 5.330 | 2.212 | 137.04 | 167.80 | 210.65 | 3.428 | 245.80 |
| %RSD | .5235737 | .2147085 | .5432049 | .3153876 | .4147959 | .3391987 | .4738307 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1012.030 | 1028.381 | 25121.65 | 53066.90 | 50632.18 | 1008.808 | 51734.56 |
| #2 | 1019.482 | 1030.059 | 25177.78 | 53155.99 | 50695.22 | 1008.582 | 52158.09 |
| #3 | 1022.357 | 1032.765 | 25382.04 | 53391.66 | 51024.45 | 1014.630 | 51730.19 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1028.328 | 1031.741 | 996.2369 | 1136.352 | 1023.812 | 1034.888 | 1042.584 |
| SDEV | 1.883 | 1.694 | 8.5361 | 4.494 | 8.007 | 2.433 | 3.162 |
| %RSD | .1831534 | .1642131 | .8568327 | .3955129 | .7820584 | .2351416 | .3033190 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1026.419 | 1033.192 | 986.4672 | 1134.680 | 1014.567 | 1033.632 | 1042.084 |
| #2 | 1030.185 | 1029.879 | 1002.253 | 1132.933 | 1028.374 | 1033.338 | 1039.702 |
| #3 | 1028.380 | 1032.152 | 999.9901 | 1141.443 | 1028.495 | 1037.692 | 1045.967 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1035.951 | 1016.690 | 1027.362 | 1041.698 | 1031.483 | 1028.019 | 1042.989 |
| SDEV | .772 | 11.988 | 6.357 | 1.388 | 3.457 | 4.301 | 3.174 |
| %RSD | .0745367 | 1.179104 | .6187617 | .1332398 | .3351839 | .4183501 | .3043230 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1035.062 | 1003.275 | 1020.198 | 1040.102 | 1030.398 | 1031.584 | 1041.099 |
| #2 | 1036.340 | 1020.440 | 1032.329 | 1042.623 | 1028.698 | 1023.242 | 1046.653 |
| #3 | 1036.451 | 1026.355 | 1029.558 | 1042.369 | 1035.353 | 1029.229 | 1041.215 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1010.658 | 1005.623 | 2711.822 |
| SDEV | 1.874 | 6.645 | 8.167 |
| %RSD | .1853836 | .6608323 | .3011699 |

| | | | |
|----|----------|----------|----------|
| #1 | 1011.032 | 1003.626 | 2719.933 |
| #2 | 1008.626 | 1013.038 | 2711.933 |
| #3 | 1012.317 | 1000.205 | 2703.600 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB OPERATOR:
 RUN TIME: 03/23/09 20:10:14
 COMMENT: CCB
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.120642 | 56.46292 | .1672218 | .8237321 | -185.521 | .6025069 | .9944530 |
| SDEV | .075341 | 10.30006 | .0360423 | .1305390 | .681 | .1023885 | .4075606 |
| %RSD | 62.44998 | 18.24217 | 21.55358 | 15.84727 | .3669054 | 16.99374 | 40.98340 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.096513 | 67.94305 | .1981119 | .9261661 | -186.236 | .5631539 | 1.161199 |
| #2 | -.205091 | 48.03096 | .1276231 | .6767504 | -184.880 | .7187335 | .5299600 |
| #3 | -.060321 | 53.41476 | .1759305 | .8682799 | -185.447 | .5256334 | 1.292200 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .9598653 | -.516480 | 19.88392 | 11.36422 | 27.47877 | .2558225 | 3.574002 |
| SDEV | .0488726 | .197072 | 7.91702 | .22929 | 1.12872 | .0993386 | 72.19827 |
| %RSD | 5.091610 | 38.15684 | 39.81622 | 2.017651 | 4.107603 | 38.83108 | 2020.096 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .9318839 | -.702449 | 21.11358 | 11.34226 | 26.22242 | .1989004 | -14.1233 |
| #2 | .9314141 | -.309921 | 11.42401 | 11.14670 | 28.40727 | .1980393 | -58.1301 |
| #3 | 1.016298 | -.537069 | 27.11416 | 11.60370 | 27.80662 | .3705278 | 82.97543 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .3775131 | 3.056906 | .3254634 | .5208561 | .7136893 | -2.12477 | .4719342 |
| SDEV | .5880616 | 2.484984 | .2388837 | .2284112 | 1.314802 | .96792 | 1.639579 |
| %RSD | 155.7725 | 81.29082 | 73.39803 | 43.85302 | 184.2261 | 45.55410 | 347.4169 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.240332 | .2366561 | .3234406 | .4700714 | -.777447 | -1.67498 | 2.355736 |
| #2 | .9303968 | 4.009005 | .0875975 | .7703853 | 1.706418 | -3.23575 | -.633325 |
| #3 | .4424745 | 4.925057 | .5653521 | .3221116 | 1.212098 | -1.46359 | -.306608 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.161864 | -.467952 | 1.298605 | -1.22522 | -2.57834 | -.443503 | -.383817 |
| SDEV | .355170 | 1.018665 | 1.471027 | .43640 | 1.23661 | 1.184069 | 1.210648 |
| %RSD | 16.42886 | 217.6857 | 113.2776 | 35.61781 | 47.96145 | 266.9814 | 315.4228 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.570120 | -1.64359 | -.350032 | -.950782 | -2.04099 | .0785795 | .7760705 |
| #2 | 1.991511 | .1527873 | 2.477071 | -1.72844 | -3.99272 | -1.79889 | -1.63953 |
| #3 | 1.923961 | .0869468 | 1.768774 | -.996448 | -1.70131 | .3898021 | -.287993 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.915326 | .5245515 | 2714.533 |
| SDEV | 1.412594 | .0464128 | 16.553 |
| %RSD | 48.45407 | 8.848094 | .6097807 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.634742 | .5095975 | 2721.733 |
| #2 | 3.823393 | .4874591 | 2726.267 |
| #3 | 1.287843 | .5765979 | 2695.600 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903121-04 OPERATOR:
 RUN TIME: 03/23/09 20:17:10
 COMMENT: SDG:0903121 CLIENTID:IC-11 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2050911 | 4388.169 | 83.84489 | 1.149993 | 30800.09 | .5771853 | 5.672704 |
| SDEV | .1163427 | 16.603 | .28018 | .133153 | 319.61 | .2414244 | .362540 |
| %RSD | 56.72736 | .3783694 | .3341623 | 11.57862 | 1.037685 | 41.82788 | 6.390960 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1206418 | 4398.613 | 84.14941 | 1.279175 | 30450.31 | .3456584 | 5.316633 |
| #2 | .3377971 | 4369.023 | 83.78725 | 1.157609 | 30873.08 | .8274188 | 6.041384 |
| #3 | .1568344 | 4396.871 | 83.59802 | 1.013195 | 31076.90 | .5584787 | 5.660095 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.291114 | .8483247 | 7879.699 | 1204.465 | 4114.212 | 90.42014 | 17793.30 |
| SDEV | .316021 | .3099592 | 94.982 | 7.449 | 23.545 | 1.06253 | 84.53 |
| %RSD | 7.364548 | 36.53780 | 1.205400 | .6184534 | .5722822 | 1.175102 | .4750664 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.012549 | 1.158300 | 7772.421 | 1212.916 | 4087.422 | 89.19463 | 17801.75 |
| #2 | 4.634530 | .8482920 | 7913.587 | 1201.624 | 4131.617 | 90.98214 | 17704.87 |
| #3 | 4.226263 | .5383818 | 7953.089 | 1198.854 | 4123.598 | 91.08363 | 17873.29 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 3.016368 | -1.12966 | 3.684158 | 40.79648 | 4.687747 | -.569152 | 7.482315 |
| SDEV | .600104 | 3.23860 | .098107 | 1.51358 | .811180 | .773133 | 1.494477 |
| %RSD | 19.89492 | 286.6879 | 2.662939 | 3.710065 | 17.30426 | 135.8395 | 19.97347 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.542178 | -4.40495 | 3.771407 | 39.04941 | 3.898622 | .1564769 | 6.181285 |
| #2 | 3.691050 | 2.070954 | 3.577958 | 41.62861 | 4.645304 | -.481598 | 9.114641 |
| #3 | 2.815875 | -1.05498 | 3.703108 | 41.71143 | 5.519316 | -1.38233 | 7.151017 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.355670 | 8.313946 | 2.872211 | -11.6905 | 4.978771 | -2.23185 | 1.570321 |
| SDEV | 1.519385 | 1.464481 | 1.925160 | 2.3041 | 1.988396 | 1.46251 | .967562 |
| %RSD | 34.88291 | 17.61476 | 67.02712 | 19.70918 | 39.93750 | 65.52905 | 61.61555 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.257208 | 9.389775 | 1.152165 | -14.0916 | 7.265377 | -.636863 | .5724795 |
| #2 | 2.887911 | 8.905921 | 2.512675 | -9.49747 | 4.015167 | -2.54878 | 1.634028 |
| #3 | 5.921891 | 6.646142 | 4.951792 | -11.4825 | 3.655768 | -3.50991 | 2.504454 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.461610 | 97.89308 | 2741.867 |
| SDEV | .545322 | 3.26562 | 12.562 |
| %RSD | 22.15307 | 3.335909 | .4581375 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.838148 | 96.89117 | 2727.600 |
| #2 | 1.836259 | 101.5423 | 2746.733 |
| #3 | 2.710422 | 95.24580 | 2751.267 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903121-05 OPERATOR:
 RUN TIME: 03/23/09 20:24:06
 COMMENT: SDG:0903121 CLIENTID:FB-3 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0844493 | 27.90901 | -.107347 | .5754080 | -205.092 | .2031269 | .0348484 |
| SDEV | .5131178 | 2.61118 | .024366 | .0903323 | .957 | .1061750 | .3154972 |
| %RSD | 607.6049 | 9.356039 | 22.69815 | 15.69883 | .4664801 | 52.27026 | 905.3425 |
| #1 | .6635299 | 25.67345 | -.081679 | .5037367 | -205.125 | .2289309 | -.292499 |
| #2 | -.096513 | 30.77892 | -.110203 | .6768740 | -206.032 | .0864283 | .0600625 |
| #3 | -.313669 | 27.27465 | -.130159 | .5456132 | -204.120 | .2940216 | .3369819 |
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.101273 | -1.04690 | 29.25100 | 4.134985 | 3.983406 | .2330687 | 480.8754 |
| SDEV | .363224 | .38786 | 8.65277 | 2.045084 | 1.765205 | .0520281 | 25.9537 |
| %RSD | 32.98224 | 37.04896 | 29.58109 | 49.45806 | 44.31396 | 22.32308 | 5.397183 |
| #1 | .9340258 | -.971107 | 19.34687 | 6.488915 | 5.625256 | .2031964 | 466.1381 |
| #2 | .8517994 | -1.46706 | 33.06230 | 3.121200 | 2.116444 | .2028645 | 465.6452 |
| #3 | 1.517992 | -.702521 | 35.34385 | 2.794841 | 4.208519 | .2931453 | 510.8428 |
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.959979 | -2.66625 | .1378865 | 1.446333 | 3.024761 | -2.12724 | 7.548948 |
| SDEV | .500803 | 1.79780 | .0635780 | .446336 | .686305 | 1.13264 | .319880 |
| %RSD | 52.16807 | 67.42807 | 46.10895 | 30.85984 | 22.68957 | 53.24448 | 4.237415 |
| #1 | -1.53042 | -1.02324 | .2112136 | 1.693427 | 2.858571 | -1.37088 | 7.189954 |
| #2 | -.592584 | -2.38890 | .0981385 | .9310919 | 3.778899 | -3.42943 | 7.653171 |
| #3 | -.756935 | -4.58661 | .1043073 | 1.714480 | 2.436811 | -1.58140 | 7.803718 |
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.549939 | 7.124221 | .9730327 | -14.0418 | 3.816605 | -2.44366 | .4308371 |
| SDEV | 1.125706 | 2.215044 | 1.929712 | 2.6635 | .595765 | 1.30723 | 1.669747 |
| %RSD | 204.6963 | 31.09174 | 198.3194 | 18.96801 | 15.60981 | 53.49495 | 387.5589 |
| #1 | -1.64713 | 9.398754 | -.411671 | -11.5772 | 3.720154 | -1.29941 | 2.324759 |
| #2 | .6022645 | 4.973893 | 3.177249 | -16.8673 | 3.274950 | -2.16321 | -.203314 |
| #3 | -.604953 | 7.000017 | .1535195 | -13.6808 | 4.454711 | -3.86835 | -.828934 |
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |
| ELEM | MO2020 | TI3349 | Y_3710 | | | | |
| UNITS | UG/L | UG/L | PPM | | | | |
| AVGE | 1.627352 | .1483289 | 2685.755 | | | | |
| SDEV | 1.225785 | .0607021 | 19.121 | | | | |
| %RSD | 75.32394 | 40.92399 | .7119300 | | | | |
| #1 | 2.979700 | .0822165 | 2695.400 | | | | |
| #2 | .5893553 | .1612205 | 2698.133 | | | | |
| #3 | 1.313000 | .2015496 | 2663.733 | | | | |
| ERRORS | LC PASS | LC PASS | NOCHECK | | | | |
| HIGH | 30000.00 | 40000.00 | | | | | |
| LOW | -10.0000 | -30.0000 | | | | | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032025-BLK1 OPERATOR:
 RUN TIME: 03/23/09 20:31:02
 COMMENT: SDG:0903117 CLIENTID:PBW 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1447702 | 26.74521 | -.089876 | .5096304 | -199.674 | -.001279 | -1.58160 |
| SDEV | .1671662 | 19.98640 | .037740 | .3694433 | 1.805 | .815357 | 1.91965 |
| %RSD | 115.4701 | 74.72890 | 41.99167 | 72.49239 | .9042028 | 63737.88 | 121.3737 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3377971 | 4.045335 | -.113070 | .1017944 | -201.613 | -.942090 | -3.75723 |
| #2 | .0482567 | 34.49057 | -.046328 | .6051939 | -199.369 | .5001798 | -.861228 |
| #3 | .0482567 | 41.69973 | -.110230 | .8219029 | -198.041 | .4380720 | -.126341 |

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |
| LOW | -5.000000 | -200.0000 | -200.0000 | -5.000000 | -5000.000 | -5.000000 | -5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.114741 | -.702524 | 26.39971 | 3.857822 | 5.108159 | .2514677 | 475.6454 |
| SDEV | .446150 | .289255 | 3.04899 | .697062 | 2.825106 | .0449537 | 79.6454 |
| %RSD | 40.02273 | 41.17362 | 11.54931 | 18.06879 | 55.30576 | 17.87651 | 16.74469 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.300604 | -.991780 | 26.31444 | 3.283132 | 1.920087 | .2541238 | 392.1744 |
| #2 | .6057077 | -.702522 | 23.39425 | 3.657116 | 6.103554 | .2052449 | 483.9472 |
| #3 | 1.437912 | -.413271 | 29.49044 | 4.633218 | 7.300835 | .2950344 | 550.8148 |

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |
| LOW | -5.000000 | -5.000000 | -100.0000 | -5000.000 | -5000.000 | -10.00000 | -5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|-----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.147428 | -5.09248 | .0882253 | 1.233532 | H3.623225 | -1.56830 | 5.765503 |
| SDEV | .235564 | 2.56419 | .0995556 | .577733 | .629689 | .92907 | 1.555934 |
| %RSD | 159.7817 | 50.35247 | 112.8425 | 46.83565 | 17.37924 | 59.24035 | 26.98695 |

| | | | | | | | |
|----|----------|----------|----------|----------|-----------|----------|----------|
| #1 | .1224842 | -7.43288 | .1832404 | .5877899 | H4.331477 | -2.48136 | 4.200654 |
| #2 | -.253220 | -2.35162 | .0967573 | 1.701448 | H3.411548 | -.624021 | 7.312365 |
| #3 | -.311550 | -5.49294 | -.015322 | 1.411358 | H3.126649 | -1.59951 | 5.783491 |

| | | | | | | | |
|--------|------------|------------|------------|------------|------------|------------|------------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC HIGH | LC PASS | LC PASS |
| HIGH | 40.000000 | 10.000000 | 20.000000 | 20.000000 | 3.0000000 | 5.0000000 | 10.000000 |
| LOW | -40.000000 | -10.000000 | -20.000000 | -20.000000 | -3.0000000 | -5.0000000 | -10.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1444733 | 6.001189 | 2.431036 | -13.5583 | 4.413295 | -.938494 | .2536159 |
| SDEV | 1.136403 | .659202 | .655508 | 2.1715 | 1.889053 | 1.564808 | 1.196867 |
| %RSD | 786.5835 | 10.98453 | 26.96414 | 16.01627 | 42.80369 | 166.7361 | 471.9210 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.12811 | 6.749956 | 3.119296 | -11.9362 | 2.234792 | .5982904 | 1.156949 |
| #2 | .5036207 | 5.508236 | 2.359696 | -12.7134 | 5.407075 | -2.52990 | .7077540 |
| #3 | 1.057910 | 5.745374 | 1.814116 | -16.0253 | 5.598018 | -.883876 | -1.10386 |

| | | | | | | | |
|--------|------------|---------|---------|---------|---------|-----------|-----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10.000000 | | | | | 100.0000 | 50.00000 |
| LOW | -10.000000 | | | | | -100.0000 | -50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.046442 | .0975869 | 2739.222 |
| SDEV | .477149 | .0657819 | 124.925 |
| %RSD | 45.59728 | 67.40855 | 4.560609 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.429573 | .0921272 | 2882.467 |
| #2 | 1.197773 | .0347050 | 2682.333 |
| #3 | .5119784 | .1659285 | 2652.867 |

| | | | |
|--------|-----------|-----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 5.000000 | 40.00000 | |
| LOW | -5.000000 | -40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032025-BS1 OPERATOR:
 RUN TIME: 03/23/09 20:37:58
 COMMENT: SDG:0903117 CLIENTID:LCSW 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1013.174 | 21079.51 | 20660.17 | 527.9567 | 53045.08 | 529.5997 | 5207.015 |
| SDEV | 10.098 | 1200.00 | 1224.29 | 30.1113 | 2948.82 | 30.4296 | 290.631 |
| %RSD | .9966441 | 5.692747 | 5.925827 | 5.703369 | 5.559089 | 5.745771 | 5.581524 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1003.088 | 20529.48 | 19933.97 | 512.7665 | 51452.69 | 511.3832 | 5031.456 |
| #2 | 1023.284 | 22455.94 | 22073.67 | 562.6374 | 56447.76 | 564.7288 | 5542.485 |
| #3 | 1013.150 | 20253.12 | 19972.85 | 508.4660 | 51234.78 | 512.6874 | 5047.105 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 1200.000 | 24000.00 | 24000.00 | 600.0000 | 60000.00 | 600.0000 | 6000.000 |
| LOW | 800.0000 | 16000.00 | 16000.00 | 400.0000 | 40000.00 | 400.0000 | 4000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1065.665 | 2640.499 | 10262.81 | 54420.05 | 51426.84 | 1568.783 | 53652.02 |
| SDEV | 65.872 | 27.898 | 621.50 | 2835.94 | 3153.57 | 89.405 | 2821.05 |
| %RSD | 6.181320 | 1.056559 | 6.055875 | 5.211213 | 6.132151 | 5.699030 | 5.258055 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1024.069 | 2620.795 | 9862.444 | 53016.91 | 49621.31 | 1509.479 | 52290.05 |
| #2 | 1141.612 | 2672.422 | 10978.78 | 57684.04 | 55068.22 | 1671.617 | 56895.64 |
| #3 | 1031.314 | 2628.280 | 9947.185 | 52559.20 | 49590.98 | 1525.252 | 51770.36 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 1200.000 | 3000.000 | 12000.00 | 60000.00 | 60000.00 | 1800.000 | 60000.00 |
| LOW | 800.0000 | 2000.000 | 8000.000 | 40000.00 | 40000.00 | 1200.000 | 40000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4231.114 | 1035.473 | 5186.938 | 2118.873 | 310.5301 | 482.9664 | 6308.704 |
| SDEV | 247.702 | 62.045 | 307.671 | 127.433 | 15.7122 | 25.5003 | 355.260 |
| %RSD | 5.854302 | 5.991907 | 5.931655 | 6.014180 | 5.059787 | 5.279940 | 5.631267 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4088.767 | 1001.505 | 5036.096 | 2040.463 | 302.0898 | 468.2957 | 6100.674 |
| #2 | 4517.135 | 1107.084 | 5540.921 | 2265.911 | 328.6586 | 512.4116 | 6718.909 |
| #3 | 4087.441 | 997.8286 | 4983.797 | 2050.244 | 300.8419 | 468.1920 | 6106.529 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 4800.000 | 1200.000 | 6000.000 | 2400.000 | 360.0000 | 600.0000 | 7200.000 |
| LOW | 3200.000 | 800.0000 | 4000.000 | 1600.000 | 240.0000 | 400.0000 | 4800.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1036.138 | 313.9624 | 308.8109 | 476.5829 | 486.1487 | 1049.267 | 1068.986 |
| SDEV | 56.848 | 17.2477 | 15.0830 | 25.5700 | 25.5988 | 62.102 | 61.731 |
| %RSD | 5.486565 | 5.493548 | 4.884204 | 5.365281 | 5.265631 | 5.918618 | 5.774726 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1001.513 | 307.2980 | 299.4828 | 464.9945 | 469.9392 | 1013.441 | 1037.362 |
| #2 | 1101.747 | 333.5480 | 326.2121 | 505.8953 | 515.6600 | 1120.976 | 1140.121 |
| #3 | 1005.152 | 301.0413 | 300.7378 | 458.8589 | 472.8471 | 1013.384 | 1029.474 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 1200.000 | | | | | 1205.000 | 1205.000 |
| LOW | 800.0000 | | | | | 795.0000 | 795.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1067.811 | 1052.890 | 2608.422 |
| SDEV | 61.689 | 56.711 | 120.202 |
| %RSD | 5.777166 | 5.386207 | 4.608228 |

| | | | |
|----|----------|----------|----------|
| #1 | 1024.147 | 1030.377 | 2662.600 |
| #2 | 1138.383 | 1117.401 | 2470.666 |
| #3 | 1040.902 | 1010.893 | 2692.000 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 1205.000 | 1205.000 | |
| LOW | 795.0000 | 795.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-01 OPERATOR:
 RUN TIME: 03/23/09 20:44:55
 COMMENT: SDG:0903117 CLIENTID:TC-32 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1085776 | 84.40035 | 32.74165 | .6482135 | 24521.66 | .5277675 | .9772623 |
| SDEV | .4378151 | 1.61209 | .13255 | .0714500 | 196.91 | .0388364 | .2407440 |
| %RSD | 403.2278 | 1.910057 | .4048397 | 11.02261 | .8029986 | 7.358614 | 24.63454 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2654120 | 86.06530 | 32.76647 | .6537563 | 24559.90 | .4832803 | 1.208367 |
| #2 | .4463747 | 82.84690 | 32.86003 | .5741535 | 24696.65 | .5451192 | .9955025 |
| #3 | -.386054 | 84.28883 | 32.59844 | .7167307 | 24308.44 | .5549030 | .7279169 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.785362 | -.681624 | 10137.54 | 865.4315 | 3250.517 | 37.55510 | 12757.31 |
| SDEV | .140264 | .258959 | 25.74 | 3.1310 | 17.053 | .20283 | 7.92 |
| %RSD | 1.433409 | 37.99149 | .2539353 | .3617855 | .5246367 | .5400805 | .0621141 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 9.940128 | -.433609 | 10129.52 | 865.8798 | 3247.132 | 37.37687 | 12757.43 |
| #2 | 9.749329 | -.660972 | 10166.34 | 868.3142 | 3269.009 | 37.77580 | 12765.17 |
| #3 | 9.666631 | -.950291 | 10116.77 | 862.1005 | 3235.410 | 37.51264 | 12749.32 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 11.92350 | -4.96848 | .8508131 | 139.0676 | 2.828832 | -.250205 | 9.407542 |
| SDEV | .54370 | .75490 | .1679730 | .4326 | .406679 | .819384 | 2.317791 |
| %RSD | 4.559861 | 15.19388 | 19.74265 | .3111046 | 14.37621 | 327.4851 | 24.63758 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 12.41022 | -4.13484 | 1.033591 | 139.4505 | 3.145876 | -.989470 | 8.147034 |
| #2 | 11.33673 | -5.16468 | .8156285 | 138.5983 | 2.970311 | -.391948 | 12.08242 |
| #3 | 12.02356 | -5.60590 | .7032192 | 139.1542 | 2.370310 | .6308030 | 7.993171 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.693724 | 7.221597 | .6291741 | -10.6162 | 4.920533 | -1.28593 | .6143313 |
| SDEV | 1.062231 | 1.103027 | .1082632 | 3.9864 | .958280 | .61367 | 1.748061 |
| %RSD | 62.71575 | 15.27400 | 17.20719 | 37.54994 | 19.47513 | 47.72213 | 284.5470 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5923441 | 8.218114 | .6067705 | -15.0138 | 6.007658 | -.607094 | 1.898676 |
| #2 | 2.711915 | 7.410277 | .7468864 | -9.59528 | 4.198307 | -1.80136 | -1.37638 |
| #3 | 1.776911 | 6.036401 | .5338654 | -7.23961 | 4.555636 | -1.44934 | 1.320700 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.691613 | .1263704 | 2689.644 |
| SDEV | 1.319377 | .0963627 | 16.730 |
| %RSD | 35.73985 | 76.25423 | .6220183 |

| | | | |
|----|----------|----------|----------|
| #1 | 5.214631 | .2371516 | 2676.467 |
| #2 | 2.897433 | .0800026 | 2684.000 |
| #3 | 2.962774 | .0619569 | 2708.467 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032025-DUP1 OPERATOR:
 RUN TIME: 03/23/09 20:51:51
 COMMENT: SDG:0903117 CLIENTID:TC-32D 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2412836 | 69.48508 | 31.62894 | .4768539 | 23401.65 | .2566733 | .2579918 |
| SDEV | .2667794 | 30.26746 | 2.20572 | .5823208 | 1312.99 | .6110377 | 2.307071 |
| %RSD | 110.5667 | 43.55964 | 6.973741 | 122.1172 | 5.610681 | 238.0605 | 894.2421 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3377971 | 93.60359 | 32.69973 | .9517482 | 24108.54 | .5692504 | 1.897183 |
| #2 | .4463747 | 35.52054 | 29.09223 | -.172848 | 21886.67 | -.447419 | -2.38022 |
| #3 | -.060321 | 79.33113 | 33.09487 | .6516613 | 24209.75 | .6481883 | 1.257012 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.812090 | -.895232 | 9691.435 | 831.5637 | 3111.598 | 35.45668 | 12124.99 |
| SDEV | .932319 | .171960 | 543.082 | 41.7471 | 180.437 | 1.77977 | 574.52 |
| %RSD | 9.501736 | 19.20838 | 5.603732 | 5.020315 | 5.798846 | 5.019548 | 4.738290 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 10.57756 | -1.03293 | 10022.97 | 857.6668 | 3230.714 | 36.41466 | 12452.99 |
| #2 | 8.773793 | -.950277 | 9064.689 | 783.4152 | 2904.000 | 33.40312 | 11461.60 |
| #3 | 10.08492 | -.702490 | 9986.649 | 853.6090 | 3200.080 | 36.55226 | 12460.37 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 12.23465 | -6.01560 | .5637547 | 133.5371 | 3.436770 | -.265987 | 7.877707 |
| SDEV | 1.19169 | 1.11915 | .3219427 | 8.4540 | .447708 | 1.601726 | 1.502723 |
| %RSD | 9.740274 | 18.60420 | 57.10687 | 6.330807 | 13.02699 | 602.1818 | 19.07564 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 13.18173 | -6.32386 | .7502384 | 138.1299 | 2.977993 | 1.273814 | 6.547374 |
| #2 | 10.89658 | -4.77462 | .7490177 | 123.7809 | 3.459796 | -.148597 | 7.578075 |
| #3 | 12.62564 | -6.94832 | .1920080 | 138.7006 | 3.872520 | -1.92318 | 9.507672 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.417410 | 7.312699 | 1.495488 | -11.5386 | 5.357495 | -1.19916 | .5190733 |
| SDEV | 1.687890 | 1.218051 | 1.217530 | .5764 | 2.431550 | 2.42787 | 1.277965 |
| %RSD | 404.3720 | 16.65666 | 81.41354 | 4.995514 | 45.38595 | 202.4643 | 246.2013 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .7558541 | 7.947723 | .4905934 | -11.1955 | 7.494594 | -3.98882 | 1.643397 |
| #2 | -2.35184 | 8.082021 | 1.146455 | -12.2041 | 5.865983 | -.044921 | -.870807 |
| #3 | .3437563 | 5.908353 | 2.849416 | -11.2162 | 2.711910 | .4362651 | .7846302 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.604005 | -.019226 | 2763.133 |
| SDEV | .884204 | .098807 | 140.593 |
| %RSD | 33.95555 | 513.9166 | 5.088169 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.535605 | -.106414 | 2660.267 |
| #2 | 2.500014 | .0880977 | 2923.333 |
| #3 | 1.776394 | -.039362 | 2705.800 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032025-MS1 OPERATOR:
 RUN TIME: 03/23/09 20:58:48
 COMMENT: SDG:0903117 CLIENTID:TC-32S 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 47.65351 | 2030.683 | 2034.205 | 51.07773 | 24215.65 | 51.47723 | 498.9571 |
| SDEV | .79651 | 132.124 | 118.359 | 3.56015 | 1529.89 | 3.83505 | 31.6835 |
| %RSD | 1.671466 | 6.506375 | 5.818452 | 6.970064 | 6.317770 | 7.449984 | 6.349935 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 46.84521 | 1883.358 | 1900.796 | 47.16434 | 22518.56 | 47.24674 | 463.6795 |
| #2 | 47.67764 | 2070.017 | 2075.214 | 51.94414 | 24639.35 | 52.45897 | 508.2018 |
| #3 | 48.43769 | 2138.672 | 2126.607 | 54.12471 | 25489.03 | 54.72597 | 524.9900 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 214.6701 | 258.8361 | 10961.40 | 840.1271 | 3171.899 | 540.7138 | 12421.29 |
| SDEV | 13.6793 | 3.7972 | 662.06 | 38.5818 | 183.538 | 34.4437 | 592.59 |
| %RSD | 6.372241 | 1.467026 | 6.039893 | 4.592371 | 5.786374 | 6.370036 | 4.770778 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 199.4269 | 254.6109 | 10218.52 | 797.5337 | 2967.889 | 503.0002 | 11755.43 |
| #2 | 218.7060 | 259.9339 | 11176.59 | 850.1144 | 3224.192 | 548.6328 | 12617.69 |
| #3 | 225.8774 | 261.9634 | 11489.09 | 872.7332 | 3323.615 | 570.5082 | 12890.74 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 517.0577 | 45.01147 | 499.0191 | 646.3649 | 22.69949 | 6.985862 | 501.1162 |
| SDEV | 31.7528 | 1.30861 | 28.7650 | 38.1835 | 1.25659 | 2.999845 | 32.8184 |
| %RSD | 6.141060 | 2.907277 | 5.764305 | 5.907428 | 5.535752 | 42.94166 | 6.549070 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 481.6255 | 46.50829 | 466.9240 | 603.4915 | 21.45632 | 4.953069 | 464.2779 |
| #2 | 526.6091 | 44.08388 | 507.6603 | 658.8917 | 23.96907 | 10.43123 | 511.8374 |
| #3 | 542.9385 | 44.44226 | 522.4729 | 676.7114 | 22.67308 | 5.573291 | 527.2332 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 40.10128 | 24.09895 | 21.99432 | -2.50714 | 11.72080 | 986.6505 | 1000.667 |
| SDEV | 5.07654 | .30724 | 1.75634 | .96710 | 4.01493 | 59.8297 | 55.899 |
| %RSD | 12.65930 | 1.274911 | 7.985434 | 38.57407 | 34.25475 | 6.063921 | 5.586128 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 34.23944 | 23.74432 | 20.30821 | -3.13179 | 8.985207 | 921.8051 | 938.8014 |
| #2 | 43.05240 | 24.26749 | 23.81334 | -1.39316 | 16.33006 | 998.4360 | 1015.656 |
| #3 | 43.01199 | 24.28503 | 21.86140 | -2.99646 | 9.847136 | 1039.710 | 1047.542 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1018.385 | 1000.679 | 2729.844 |
| SDEV | 63.406 | 65.971 | 119.585 |
| %RSD | 6.226176 | 6.592658 | 4.380652 |

| | | | |
|----|----------|----------|----------|
| #1 | 947.2433 | 928.2927 | 2863.000 |
| #2 | 1038.972 | 1016.320 | 2694.933 |
| #3 | 1068.940 | 1057.424 | 2631.600 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 9032025-MSD1 OPERATOR:
 RUN TIME: 03/23/09 21:05:44
 COMMENT: SDG:0903117 CLIENTID:TC-32SD 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 47.62939 | 2144.476 | 2139.038 | 53.65913 | 24890.48 | 54.00643 | 520.4665 |
| SDEV | .55404 | 74.400 | 61.860 | 1.99217 | 818.11 | 2.28057 | 20.4064 |
| %RSD | 1.163222 | 3.469395 | 2.891957 | 3.712641 | 3.286853 | 4.222772 | 3.920781 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 47.20714 | 2108.502 | 2107.887 | 52.61623 | 24447.87 | 52.22152 | 508.0886 |
| #2 | 47.42429 | 2094.899 | 2098.946 | 52.40491 | 24389.03 | 53.22211 | 509.2915 |
| #3 | 48.25673 | 2230.026 | 2210.281 | 55.95626 | 25834.55 | 56.57565 | 544.0195 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 222.9534 | 262.4655 | 11340.68 | 874.8510 | 3300.744 | 564.5196 | 12822.76 |
| SDEV | 6.1936 | 1.1434 | 309.25 | 18.7494 | 90.473 | 15.3148 | 286.42 |
| %RSD | 2.777979 | .4356334 | 2.726916 | 2.143149 | 2.740979 | 2.712884 | 2.233672 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 219.4966 | 261.5469 | 11163.98 | 866.9598 | 3249.183 | 556.1661 | 12609.90 |
| #2 | 219.2598 | 262.1035 | 11160.29 | 861.3370 | 3247.839 | 555.1981 | 12709.98 |
| #3 | 230.1039 | 263.7460 | 11697.76 | 896.2561 | 3405.210 | 582.1948 | 13148.40 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 539.9828 | 46.76484 | 520.0704 | 666.8350 | 22.64912 | 6.214455 | 523.9772 |
| SDEV | 18.4309 | 2.89243 | 17.9813 | 22.3692 | 1.07587 | 2.547784 | 15.8040 |
| %RSD | 3.413245 | 6.185055 | 3.457466 | 3.354535 | 4.750169 | 40.99771 | 3.016153 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 529.8372 | 43.55860 | 511.8156 | 653.8032 | 21.69941 | 3.563911 | 511.9316 |
| #2 | 528.8538 | 47.55792 | 507.6988 | 654.0374 | 22.43040 | 8.645244 | 518.1281 |
| #3 | 561.2574 | 49.17801 | 540.6969 | 692.6644 | 23.81754 | 6.434210 | 541.8719 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 41.09592 | 26.95282 | 20.49394 | -5.51999 | 12.06808 | 1026.769 | 1047.215 |
| SDEV | 2.10168 | 1.46462 | 1.08662 | 5.62152 | 1.93818 | 30.848 | 36.725 |
| %RSD | 5.114077 | 5.434033 | 5.302133 | 101.8392 | 16.06037 | 3.004359 | 3.506957 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 38.76100 | 26.49148 | 19.30069 | -9.24800 | 9.955700 | 1012.190 | 1024.004 |
| #2 | 42.83622 | 25.77441 | 20.75466 | .9459600 | 12.48401 | 1005.912 | 1028.083 |
| #3 | 41.69055 | 28.59256 | 21.42649 | -8.25794 | 13.76452 | 1062.204 | 1089.556 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1064.159 | 1043.734 | 2626.422 |
| SDEV | 37.714 | 32.723 | 63.539 |
| %RSD | 3.543993 | 3.135188 | 2.419241 |

| | | | |
|----|----------|----------|----------|
| #1 | 1039.396 | 1025.171 | 2654.600 |
| #2 | 1045.519 | 1024.513 | 2671.000 |
| #3 | 1107.564 | 1081.517 | 2553.666 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: SDI0903117-01 OPERATOR:
 RUN TIME: 03/23/09 21:12:41
 COMMENT: SDG:0903117 CLIENTID:TC-32L 1:5
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.072385 | 35.23643 | 6.484017 | .4578681 | 4858.039 | .3559698 | .9289238 |
| SDEV | .116343 | 9.15074 | .046252 | .1652610 | 29.893 | .3164000 | .1360137 |
| %RSD | 160.7275 | 25.96954 | .7133303 | 36.09358 | .6153322 | 88.88394 | 14.64207 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.205091 | 45.33092 | 6.533304 | .6486924 | 4828.132 | .1700363 | .7728169 |
| #2 | .0120642 | 32.89327 | 6.441558 | .3615869 | 4858.065 | .1765756 | 1.021900 |
| #3 | -.024128 | 27.48511 | 6.477189 | .3633251 | 4887.918 | .7212974 | .9920546 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.419934 | -.654255 | 2073.403 | 157.0908 | 671.0261 | 7.625059 | 2612.786 |
| SDEV | .124889 | .310195 | 17.702 | 1.6161 | 2.6235 | .041749 | 57.025 |
| %RSD | 5.160845 | 47.41197 | .8537781 | 1.028784 | .3909629 | .5475227 | 2.182526 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.557207 | -.971081 | 2052.963 | 157.3782 | 668.0002 | 7.578452 | 2676.445 |
| #2 | 2.389564 | -.351146 | 2083.720 | 158.5439 | 672.4137 | 7.637694 | 2566.380 |
| #3 | 2.313031 | -.640537 | 2083.527 | 155.3502 | 672.6643 | 7.659030 | 2595.534 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.135016 | -.808412 | .2573808 | 29.20686 | 1.985916 | -1.68494 | 1.941272 |
| SDEV | .733252 | 4.081049 | .1763742 | .39637 | .365759 | 1.41324 | 1.222495 |
| %RSD | 34.34409 | 504.8229 | 68.52657 | 1.357114 | 18.41765 | 83.87494 | 62.97391 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.420108 | .4528861 | .2895667 | 29.44024 | 1.788323 | -2.36064 | 2.628159 |
| #2 | 2.099613 | -5.37121 | .4154457 | 28.74920 | 2.407973 | -2.63348 | 2.665834 |
| #3 | 2.885329 | 2.493089 | .0671301 | 29.43114 | 1.761453 | -.060688 | .5298241 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.347426 | 1.694556 | 2.126374 | -4.44384 | -.311813 | .1296710 | .6249354 |
| SDEV | 1.666410 | 2.100511 | 1.011687 | 2.89464 | .674078 | 1.284343 | 1.191961 |
| %RSD | 123.6735 | 123.9565 | 47.57803 | 65.13821 | 216.1803 | 990.4631 | 190.7334 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.492253 | -.702587 | 3.026902 | -5.77782 | -.659068 | .9606535 | 1.938482 |
| #2 | 1.778791 | 2.573084 | 2.320548 | -6.43097 | -.741461 | -1.34961 | .3241351 |
| #3 | 2.755741 | 3.213170 | 1.031674 | -1.12274 | .4650904 | .7779645 | -.387811 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.530223 | .2278137 | 2723.089 |
| SDEV | .580729 | .0318239 | 4.275 |
| %RSD | 37.95058 | 13.96926 | .1569977 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.762412 | .2645568 | 2720.200 |
| #2 | .8693243 | .2099106 | 2728.000 |
| #3 | 1.958934 | .2089737 | 2721.066 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: PDS0903117-01 OPERATOR:
 RUN TIME: 03/23/09 21:19:37
 COMMENT: SDG:0903117 CLIENTID:TC-32A 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 40.13753 | 894.1790 | 851.0185 | 21.18749 | 24497.05 | 21.20173 | 205.6170 |
| SDEV | .16717 | 12.4573 | 4.8593 | .20633 | 164.92 | .33107 | 2.9486 |
| %RSD | .4164821 | 1.393153 | .5709941 | .9738256 | .6732371 | 1.561529 | 1.434006 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 40.04102 | 882.2666 | 845.9039 | 21.05800 | 24307.34 | 20.85936 | 202.8903 |
| #2 | 40.33055 | 893.1527 | 851.5776 | 21.07904 | 24606.30 | 21.52020 | 205.2148 |
| #3 | 40.04102 | 907.1177 | 855.5740 | 21.42543 | 24577.51 | 21.22563 | 208.7461 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 51.83453 | 103.9652 | 10528.22 | 847.3596 | 3238.897 | 99.49314 | 12604.15 |
| SDEV | .45742 | .8381 | 123.25 | 5.2283 | 32.218 | 1.29009 | 197.70 |
| %RSD | .8824585 | .8061625 | 1.170640 | .6170157 | .9947116 | 1.296667 | 1.568518 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 51.33967 | 103.1104 | 10418.18 | 845.1522 | 3211.101 | 98.21134 | 12455.84 |
| #2 | 51.92206 | 103.9995 | 10505.08 | 843.5970 | 3231.382 | 99.47671 | 12528.00 |
| #3 | 52.24186 | 104.7856 | 10661.40 | 853.3297 | 3274.208 | 100.7914 | 12828.59 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 179.5207 | 33.48027 | 207.2265 | 223.0271 | 15.37634 | 17.91862 | 254.9020 |
| SDEV | 1.1120 | 1.11837 | 2.4246 | 2.4178 | .72644 | 1.89965 | .3377 |
| %RSD | .6194351 | 3.340385 | 1.170015 | 1.084062 | 4.724391 | 10.60157 | .1324732 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 178.2443 | 33.50093 | 204.9863 | 220.2513 | 15.21775 | 19.94930 | 254.5568 |
| #2 | 180.0379 | 34.58817 | 206.8924 | 224.1560 | 14.74230 | 16.18499 | 254.9178 |
| #3 | 180.2800 | 32.35171 | 209.8008 | 224.6738 | 16.16897 | 17.62158 | 255.2316 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 42.91980 | 18.42935 | 13.84760 | 4.801260 | 24.46295 | 1.046012 | .6844214 |
| SDEV | 1.02446 | 1.88063 | 1.57130 | 5.115921 | 1.70998 | 2.051908 | 2.022071 |
| %RSD | 2.386906 | 10.20454 | 11.34708 | 106.5537 | 6.990087 | 196.1648 | 295.4424 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 42.29487 | 16.41896 | 14.61353 | 10.52870 | 24.64802 | 2.493576 | 3.003794 |
| #2 | 44.10209 | 20.14554 | 12.04021 | 3.190526 | 22.66795 | -1.30219 | -.707972 |
| #3 | 42.36243 | 18.72356 | 14.88906 | .6845551 | 26.07286 | 1.946652 | -.242559 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.135382 | .0449153 | 2678.511 |
| SDEV | 1.046070 | .1747991 | 6.176 |
| %RSD | 48.98749 | 389.1749 | .2305652 |

| | | | |
|----|----------|----------|----------|
| #1 | 3.197572 | .0009688 | 2683.666 |
| #2 | 2.102363 | .2374942 | 2680.200 |
| #3 | 1.106213 | -.103717 | 2671.666 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV

OPERATOR:

RUN TIME: 03/23/09 21:26:34

COMMENT: CCV CVS1

MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 99.80697 | 51846.54 | 1025.005 | 1049.560 | 53180.85 | 1054.236 | 1033.476 |
| SDEV | .93706 | 1837.27 | 29.993 | 44.999 | 2917.42 | 51.290 | 50.558 |
| %RSD | .9388682 | 3.543667 | 2.926087 | 4.287449 | 5.485853 | 4.865172 | 4.892043 |

| | | | | | | | |
|----|----------|----------|----------|----------|-----------|-----------|----------|
| #1 | 100.1568 | 50599.15 | 1010.046 | 1024.852 | 51350.48 | 1022.493 | 999.2544 |
| #2 | 100.5187 | 50984.10 | 1005.433 | 1022.328 | 51646.82 | 1026.805 | 1009.626 |
| #3 | 98.74532 | 53956.36 | 1059.535 | 1101.501 | Q56545.25 | Q1113.408 | 1091.548 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1045.358 | 1005.857 | 25957.02 | 53901.75 | 52191.62 | 1039.485 | 52690.53 |
| SDEV | 49.077 | 38.209 | 1400.86 | 997.19 | 2412.06 | 53.016 | 1354.94 |
| %RSD | 4.694765 | 3.798649 | 5.396840 | 1.850019 | 4.621546 | 5.100195 | 2.571505 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1012.122 | 1026.008 | 25027.32 | 53311.88 | 50580.94 | 999.1385 | 51834.57 |
| #2 | 1022.226 | 1029.772 | 25275.51 | 53340.29 | 51029.13 | 1019.785 | 51984.32 |
| #3 | 1101.726 | 961.7902 | 27568.24 | 55053.10 | 54964.78 | 1099.530 | 54252.69 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1048.049 | 1051.552 | 1027.424 | 1168.036 | 960.0807 | 969.7238 | 1078.120 |
| SDEV | 48.228 | 32.501 | 43.028 | 74.393 | 108.8904 | 121.8229 | 63.982 |
| %RSD | 4.601727 | 3.090728 | 4.187944 | 6.369031 | 11.34180 | 12.56264 | 5.934621 |

| | | | | | | | |
|----|----------|----------|----------|-----------|-----------|-----------|-----------|
| #1 | 1020.547 | 1033.953 | 997.6411 | 1119.931 | 1024.089 | 1043.161 | 1042.928 |
| #2 | 1019.863 | 1031.647 | 1007.875 | 1130.455 | 1021.802 | 1036.909 | 1039.459 |
| #3 | 1103.736 | 1089.057 | 1076.756 | Q1253.722 | Q834.3518 | Q829.1012 | Q1151.973 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1068.687 | 761.4668 | 1059.233 | 730.2362 | 1089.283 | 1045.416 | 1061.554 |
| SDEV | 58.612 | 443.9041 | 58.393 | 544.5786 | 89.434 | 45.997 | 38.964 |
| %RSD | 5.484529 | 58.29592 | 5.512752 | 74.57568 | 8.210324 | 4.399832 | 3.670445 |

| | | | | | | | |
|----|-----------|----------|----------|----------|----------|----------|-----------|
| #1 | 1028.008 | 1018.196 | 1027.025 | 1044.171 | 1042.653 | 1011.612 | 1042.992 |
| #2 | 1042.182 | 1017.314 | 1024.037 | 1045.126 | 1032.802 | 1026.839 | 1035.341 |
| #3 | Q1135.870 | 248.8907 | 1126.637 | 101.4112 | 1192.396 | 1097.795 | Q1106.328 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1032.081 | 1039.765 | 2613.089 |
| SDEV | 47.080 | 51.811 | 154.983 |
| %RSD | 4.561692 | 4.982992 | 5.931017 |

| | | | |
|----|----------|----------|----------|
| #1 | 1003.970 | 1008.011 | 2703.467 |
| #2 | 1005.840 | 1011.731 | 2701.666 |
| #3 | 1086.434 | 1099.553 | 2434.133 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-02 OPERATOR:
 RUN TIME: 03/23/09 21:40:29
 COMMENT: SDG:0903117 CLIENTID:TC-25 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2774762 | 871.2855 | 37.86277 | .6935368 | 17406.81 | .5947545 | .7896566 |
| SDEV | .3243896 | 24.6134 | .58246 | .1658111 | 314.20 | .3536634 | .7934255 |
| %RSD | 116.9072 | 2.824958 | 1.538348 | 23.90805 | 1.805051 | 59.46376 | 100.4773 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.096513 | 893.5898 | 38.44111 | .8846664 | 17438.12 | .5032773 | 1.201280 |
| #2 | .4463747 | 844.8785 | 37.27628 | .6077414 | 17078.12 | .2958169 | -.124991 |
| #3 | .4825672 | 875.3881 | 37.87093 | .5882027 | 17704.18 | .9851694 | 1.292681 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 44.52945 | .7233760 | 2854.463 | 1064.677 | 2925.275 | 5.626697 | 6987.207 |
| SDEV | 1.11837 | .0356741 | 65.826 | 12.476 | 52.911 | .128508 | 178.422 |
| %RSD | 2.511536 | 4.931609 | 2.306069 | 1.171826 | 1.808764 | 2.283890 | 2.553547 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 44.63117 | .7025809 | 2878.812 | 1072.654 | 2952.921 | 5.724652 | 6940.218 |
| #2 | 43.36369 | .7029789 | 2779.932 | 1050.299 | 2864.267 | 5.481191 | 6836.982 |
| #3 | 45.59349 | .7645683 | 2904.646 | 1071.076 | 2958.636 | 5.674249 | 7184.420 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 9.587538 | -4.59794 | 1.189059 | 4.998878 | 3.465675 | -.896168 | 8.171671 |
| SDEV | .464546 | 3.93192 | .174965 | .234679 | 1.273482 | .497503 | 1.219792 |
| %RSD | 4.845312 | 85.51489 | 14.71457 | 4.694641 | 36.74558 | 55.51447 | 14.92708 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 9.060987 | -.137141 | 1.084782 | 5.264620 | 2.095909 | -.461572 | 7.610384 |
| #2 | 9.762147 | -7.56044 | 1.391056 | 4.820068 | 3.687348 | -.788115 | 7.333561 |
| #3 | 9.939479 | -6.09623 | 1.091340 | 4.911946 | 4.613767 | -1.43882 | 9.571069 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .4764961 | 7.907166 | 1.243151 | -12.1009 | 4.693255 | -.246941 | 1.770034 |
| SDEV | 1.850293 | 1.526300 | 1.245793 | 1.7714 | .190543 | 2.505823 | .657720 |
| %RSD | 388.3124 | 19.30275 | 100.2126 | 14.63887 | 4.059937 | 1014.745 | 37.15862 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.092119 | 6.145708 | .0688760 | -10.3588 | 4.475037 | 2.233361 | 2.423378 |
| #2 | .8794311 | 8.838314 | 1.110697 | -12.0436 | 4.826704 | -2.77753 | 1.778700 |
| #3 | -1.54206 | 8.737475 | 2.549878 | -13.9003 | 4.778022 | -.196657 | 1.108024 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.740860 | 15.17256 | 2668.177 |
| SDEV | .802648 | 1.82272 | 37.180 |
| %RSD | 46.10641 | 12.01327 | 1.393467 |

| | | | |
|----|----------|----------|----------|
| #1 | .8259825 | 17.10232 | 2636.400 |
| #2 | 2.069873 | 13.48014 | 2709.066 |
| #3 | 2.326725 | 14.93521 | 2659.066 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-03 OPERATOR:
 RUN TIME: 03/23/09 21:47:25
 COMMENT: SDG:0903117 CLIENTID:TC-32 DUP 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2654120 | 74.83733 | 32.14039 | .4720267 | 24059.47 | .5258568 | .9667630 |
| SDEV | .0957565 | 3.86026 | .33961 | .0465807 | 459.61 | .1606390 | .4875669 |
| %RSD | 36.07843 | 5.158196 | 1.056633 | 9.868227 | 1.910294 | 30.54805 | 50.43293 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1930269 | 70.60545 | 31.75927 | .4182487 | 23529.21 | .3405544 | .4758844 |
| #2 | .3739896 | 75.74083 | 32.41089 | .4980748 | 24343.41 | .6112872 | 1.450949 |
| #3 | .2292194 | 78.16570 | 32.25102 | .4997566 | 24305.80 | .6257287 | .9734555 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.435712 | -.502622 | 9945.845 | 832.2961 | 3169.811 | 36.97647 | 12518.72 |
| SDEV | .478048 | .310160 | 148.049 | 7.2039 | 38.166 | .89899 | 249.97 |
| %RSD | 10.77726 | 61.70843 | 1.488555 | .8655447 | 1.204060 | 2.431240 | 1.996740 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.101903 | -.681702 | 9774.895 | 824.0970 | 3125.757 | 35.94685 | 12230.54 |
| #2 | 4.983351 | -.144480 | 10032.12 | 837.6110 | 3192.877 | 37.37689 | 12676.93 |
| #3 | 4.221882 | -.681684 | 10030.52 | 835.1804 | 3190.799 | 37.60567 | 12648.68 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 7.807982 | -6.43563 | .5904484 | 137.1006 | 3.809929 | -.756810 | 8.307019 |
| SDEV | .546115 | .81273 | .0643839 | 2.3842 | .486166 | .081838 | .782595 |
| %RSD | 6.994314 | 12.62868 | 10.90423 | 1.739016 | 12.76051 | 10.81353 | 9.420886 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 7.528688 | -5.85291 | .5948997 | 134.3503 | 4.370290 | -.759186 | 7.412377 |
| #2 | 8.437259 | -6.08990 | .5239544 | 138.3696 | 3.558981 | -.673810 | 8.644042 |
| #3 | 7.457998 | -7.36406 | .6524911 | 138.5819 | 3.500516 | -.837434 | 8.864639 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .9006429 | 8.418016 | 1.502784 | -13.8811 | 5.790983 | -.227083 | 1.360420 |
| SDEV | 1.007345 | .665801 | .885547 | 2.8228 | 1.531268 | 2.728992 | 1.091479 |
| %RSD | 111.8474 | 7.909233 | 58.92707 | 20.33570 | 26.44227 | 1201.759 | 80.23102 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .6788638 | 8.237587 | 2.433416 | -14.1641 | 5.928759 | -2.94579 | 2.564293 |
| #2 | .0226669 | 7.861027 | 1.404395 | -16.5517 | 7.248706 | -.247533 | 1.081505 |
| #3 | 2.000398 | 9.155437 | .6705408 | -10.9274 | 4.195483 | 2.512077 | .4354618 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.090806 | -.015192 | 2695.511 |
| SDEV | .561692 | .113258 | 21.722 |
| %RSD | 51.49327 | 745.5209 | .8058760 |

| | | | |
|----|----------|----------|----------|
| #1 | .5786695 | -.091975 | 2719.333 |
| #2 | 1.002223 | -.068482 | 2676.800 |
| #3 | 1.691526 | .1148820 | 2690.400 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-04 OPERATOR:
 RUN TIME: 03/23/09 21:54:21
 COMMENT: SDG:0903117 CLIENTID:TC-33 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1327060 | 165.6274 | 19.02237 | .5398181 | 34277.11 | .6910692 | .3496409 |
| SDEV | .3243896 | 7.0727 | .22942 | .1030963 | 697.12 | .0838556 | .8023207 |
| %RSD | 244.4424 | 4.270241 | 1.206068 | 19.09833 | 2.033786 | 12.13419 | 229.4699 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3377971 | 161.8605 | 18.76139 | .5070213 | 33490.22 | .6369919 | -.575316 |
| #2 | .3016045 | 161.2354 | 19.11351 | .4571098 | 34817.45 | .7876672 | .7667326 |
| #3 | -.241284 | 173.7862 | 19.19222 | .6553230 | 34523.67 | .6485485 | .8575059 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.386949 | 35.04496 | 601.7826 | 1672.991 | 4276.466 | 5.211626 | 2506.441 |
| SDEV | .641545 | .30438 | 14.2528 | 11.922 | 72.565 | .166611 | 58.092 |
| %RSD | 14.62394 | .8685414 | 2.368427 | .7126380 | 1.696844 | 3.196911 | 2.317697 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.078586 | 34.71438 | 585.4097 | 1659.270 | 4194.355 | 5.024361 | 2503.580 |
| #2 | 3.957809 | 35.31362 | 611.4135 | 1680.827 | 4303.062 | 5.267072 | 2449.833 |
| #3 | 5.124452 | 35.10688 | 608.5247 | 1678.875 | 4331.980 | 5.343444 | 2565.910 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2384619 | -6.26949 | .6506553 | 22.20607 | 5.168120 | -.373951 | 10.83241 |
| SDEV | .6119024 | 1.15015 | .2020888 | .54263 | 1.813213 | .621882 | 1.12963 |
| %RSD | 256.6038 | 18.34525 | 31.05927 | 2.443592 | 35.08458 | 166.3003 | 10.42824 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5395865 | -5.00698 | .7573308 | 21.70729 | 6.466937 | -1.05792 | 9.900041 |
| #2 | .6414496 | -6.54382 | .7770539 | 22.78387 | 5.940875 | -.221373 | 10.50861 |
| #3 | -.465650 | -7.25767 | .4175813 | 22.12703 | 3.096548 | .1574413 | 12.08858 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6796804 | 11.92991 | 1.787154 | -17.2835 | 8.063590 | -.987281 | 1.453707 |
| SDEV | 1.937517 | 1.30635 | 2.069393 | 1.8448 | .225803 | 1.141370 | 1.223871 |
| %RSD | 285.0629 | 10.95025 | 115.7927 | 10.67362 | 2.800277 | 115.6074 | 84.18964 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.354906 | 12.76160 | 3.319228 | -19.4091 | 8.099390 | .0478251 | 2.738858 |
| #2 | -1.44214 | 12.60392 | 2.609180 | -16.3415 | 7.822026 | -2.21133 | 1.320198 |
| #3 | 1.126273 | 10.42421 | -.566948 | -16.0999 | 8.269355 | -.798333 | .3020647 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.424757 | .4173830 | 2651.177 |
| SDEV | .868965 | .0903399 | 19.471 |
| %RSD | 60.99041 | 21.64437 | .7344108 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.505947 | .3274979 | 2673.533 |
| #2 | 2.250277 | .5081710 | 2637.933 |
| #3 | .5180459 | .4164802 | 2642.066 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-05 OPERATOR:
 RUN TIME: 03/23/09 22:01:17
 COMMENT: SDG:0903117 CLIENTID:EP-2 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2292194 | 103.5222 | 14.14430 | .5526279 | 17361.47 | .5158585 | 1.794558 |
| SDEV | .1304941 | 9.9743 | .24717 | .1384339 | 249.07 | .3245886 | .531724 |
| %RSD | 56.92976 | 9.634917 | 1.747513 | 25.05012 | 1.434618 | 62.92202 | 29.62982 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2654120 | 102.9944 | 14.00385 | .5157287 | 17134.27 | .5749922 | 1.304765 |
| #2 | .3377971 | 113.7499 | 14.42970 | .7057726 | 17627.79 | .8068149 | 2.360091 |
| #3 | .0844493 | 93.82234 | 13.99935 | .4363823 | 17322.36 | .1657684 | 1.718817 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.588621 | -.048166 | 610.9528 | 526.9728 | 1969.259 | 11.07447 | 7731.249 |
| SDEV | .349833 | .355763 | 14.6790 | 6.9629 | 28.324 | .25032 | 85.502 |
| %RSD | 22.02118 | 738.6128 | 2.402633 | 1.321309 | 1.438282 | 2.260326 | 1.105932 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.831556 | .3513975 | 597.2264 | 522.7565 | 1950.221 | 11.09619 | 7647.869 |
| #2 | 1.187653 | -.165312 | 626.4277 | 535.0097 | 2001.809 | 11.31322 | 7818.726 |
| #3 | 1.746653 | -.330585 | 609.2043 | 523.1523 | 1955.749 | 10.81400 | 7727.152 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .4567290 | -5.57537 | .2869315 | 5.045450 | 3.642690 | .0834281 | 6.155091 |
| SDEV | .3162255 | .65057 | .1100789 | .465915 | .470748 | .9062098 | 1.302394 |
| %RSD | 69.23701 | 11.66870 | 38.36418 | 9.234356 | 12.92309 | 1086.217 | 21.15963 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .6392767 | -6.32544 | .3982561 | 4.511591 | 3.697549 | -.487649 | 4.711600 |
| #2 | .0915833 | -5.23644 | .1781420 | 5.370025 | 4.083605 | 1.128321 | 7.242186 |
| #3 | .6393271 | -5.16425 | .2843966 | 5.254733 | 3.146916 | -.390388 | 6.511488 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.068775 | 7.953257 | 1.485577 | -12.8107 | 6.516326 | 2.463952 | -.076874 |
| SDEV | 1.572275 | 1.302693 | 1.085571 | .8727 | .922969 | .435090 | 1.348732 |
| %RSD | 2286.100 | 16.37936 | 73.07403 | 6.812475 | 14.16395 | 17.65820 | 1754.467 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.72953 | 9.347136 | .8719577 | -13.3752 | 5.941969 | 2.922168 | -1.37076 |
| #2 | .1264008 | 6.766588 | 2.738995 | -11.8055 | 7.580973 | 2.413259 | -.180585 |
| #3 | 1.396799 | 7.746048 | .8457782 | -13.2514 | 6.026035 | 2.056430 | 1.320719 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .4578928 | .4549363 | 2693.000 |
| SDEV | .2168427 | .2269191 | 31.310 |
| %RSD | 47.35665 | 49.87933 | 1.162626 |

| | | | |
|----|----------|----------|----------|
| #1 | .5850612 | .4645927 | 2707.000 |
| #2 | .2075148 | .2233430 | 2657.133 |
| #3 | .5811023 | .6768730 | 2714.867 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-06 OPERATOR:
 RUN TIME: 03/23/09 22:08:13
 COMMENT: SDG:0903117 CLIENTID:TC-29 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1327060 | 1041.462 | 24.53671 | .6570567 | 31039.54 | .8799075 | 1.406964 |
| SDEV | .2667794 | 50.019 | .88419 | .2469464 | 1202.32 | .5238262 | 1.567594 |
| %RSD | 201.0304 | 4.802814 | 3.603552 | 37.58372 | 3.873495 | 59.53197 | 111.4168 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3377971 | 1099.150 | 25.53087 | .9367452 | 32427.63 | 1.477708 | 3.178770 |
| #2 | .2292194 | 1010.170 | 24.24095 | .4691163 | 30323.87 | .6608195 | .2003125 |
| #3 | -.168899 | 1015.065 | 23.83831 | .5653085 | 30367.12 | .5011951 | .8418099 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.514266 | -.219788 | 10190.46 | 788.9532 | 4350.231 | 79.74190 | 7073.469 |
| SDEV | .382687 | .339859 | 365.00 | 23.9093 | 156.525 | 3.07236 | 168.618 |
| %RSD | 15.22064 | 154.6307 | 3.581763 | 3.030511 | 3.598093 | 3.852884 | 2.383815 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.609080 | .1660568 | 10611.34 | 816.5603 | 4530.922 | 83.19433 | 7267.347 |
| #2 | 2.093084 | -.474737 | 9960.838 | 774.9464 | 4256.248 | 77.30860 | 6992.037 |
| #3 | 2.840633 | -.350682 | 9999.196 | 775.3529 | 4263.524 | 78.72277 | 6961.022 |

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|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TI1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .9396946 | -6.64309 | 2.013632 | 3.177215 | 3.708915 | -.488266 | 8.220141 |
| SDEV | .3230124 | 1.97188 | .388821 | .249532 | 1.928870 | 3.061492 | 2.501349 |
| %RSD | 34.37419 | 29.68320 | 19.30943 | 7.853800 | 52.00632 | 627.0135 | 30.42950 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5950448 | -8.65719 | 2.439276 | 3.450157 | 5.899775 | -3.89473 | 5.332355 |
| #2 | 1.235508 | -4.71633 | 1.677108 | 2.960786 | 2.960818 | 2.033336 | 9.616519 |
| #3 | .9885312 | -6.55575 | 1.924513 | 3.120702 | 2.266152 | .3965981 | 9.711552 |

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|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.086293 | 7.941515 | 1.590597 | -14.8578 | 6.681114 | -.448630 | 1.963030 |
| SDEV | 1.286667 | 2.366893 | 1.782707 | 5.6790 | 2.119119 | .596718 | 1.562959 |
| %RSD | 118.4457 | 29.80405 | 112.0779 | 38.22236 | 31.71805 | 133.0091 | 79.61970 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.711937 | 10.66292 | 3.516392 | -20.2648 | 4.273247 | .1950370 | 1.077306 |
| #2 | -.393550 | 6.362558 | 1.257405 | -8.94115 | 7.507826 | -.983400 | 3.767679 |
| #3 | 1.940493 | 6.799062 | -.002006 | -15.3674 | 8.262270 | -.557525 | 1.044107 |

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|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .1245272 | 33.92039 | 2627.889 |
| SDEV | .4021051 | 1.35934 | 80.253 |
| %RSD | 322.9053 | 4.007439 | 3.053901 |

| | | | |
|----|----------|----------|----------|
| #1 | .5743284 | 35.48577 | 2535.267 |
| #2 | -.000635 | 33.23765 | 2676.733 |
| #3 | -.200112 | 33.03774 | 2671.666 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-07 OPERATOR:
 RUN TIME: 03/23/09 22:15:09
 COMMENT: SDG:0903117 CLIENTID:TC-23 1:1
 MODE: CONC CORR. FACTOR: 1

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|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L |
| AVGE | .3136687 | 155.3834 | 29.40583 | .4030899 | 32898.17 | .7242671 | .2687038 |
| SDEV | .1785336 | 3.7638 | .47647 | .0314970 | 482.83 | .2667361 | .3259666 |
| %RSD | 56.91788 | 2.422235 | 1.620316 | 7.813884 | 1.467658 | 36.82841 | 121.3107 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1930269 | 159.2330 | 29.77935 | .4374486 | 33257.43 | .9390050 | .6306555 |
| #2 | .2292194 | 151.7118 | 28.86924 | .3755825 | 32349.31 | .4256814 | -.001701 |
| #3 | .5187598 | 155.2055 | 29.56890 | .3962385 | 33087.76 | .8081150 | .1771565 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.182989 | -.364522 | 7645.095 | 957.5008 | 3216.379 | 42.52172 | 3645.652 |
| SDEV | .229705 | .581643 | 119.872 | 15.7856 | 57.326 | .56638 | 76.685 |
| %RSD | 10.52249 | 159.5633 | 1.567958 | 1.648621 | 1.782304 | 1.331975 | 2.103460 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.930636 | .2484988 | 7673.656 | 972.8116 | 3235.532 | 42.87627 | 3731.142 |
| #2 | 2.379895 | -.908652 | 7513.523 | 941.2799 | 3151.928 | 41.86852 | 3582.926 |
| #3 | 2.238437 | -.433413 | 7748.107 | 958.4109 | 3261.675 | 42.82037 | 3622.889 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .7200455 | -6.96896 | 1.717403 | 4.925492 | 2.114591 | -1.10894 | 7.120828 |
| SDEV | .1571148 | 2.50368 | .042523 | .084199 | 1.015751 | 1.29235 | .667103 |
| %RSD | 21.82012 | 35.92625 | 2.476004 | 1.709450 | 48.03536 | 116.5391 | 9.368337 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .7894032 | -4.15625 | 1.758589 | 4.843360 | 3.241658 | -1.63331 | 7.779552 |
| #2 | .8305465 | -8.95407 | 1.719961 | 5.011615 | 1.269915 | -2.05670 | 6.445650 |
| #3 | .5401868 | -7.79655 | 1.673658 | 4.921503 | 1.832200 | .3631799 | 7.137281 |

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|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.232450 | 5.369212 | .4846888 | -11.6178 | 4.133133 | -1.12819 | .6163580 |
| SDEV | 2.815655 | 2.399059 | 1.270249 | 2.9575 | 3.412955 | 1.95950 | .8283012 |
| %RSD | 126.1240 | 44.68176 | 262.0753 | 25.45645 | 82.57551 | 173.6853 | 134.3864 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.293348 | 6.309901 | 1.704734 | -10.5847 | 2.831135 | -2.96335 | 1.548061 |
| #2 | 5.268248 | 2.642364 | .5797561 | -9.31545 | 1.562818 | -1.35680 | -.036658 |
| #3 | 1.722450 | 7.155372 | -.830423 | -14.9533 | 8.005446 | .9355874 | .3376708 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.209129 | 3.854594 | 2709.089 |
| SDEV | .487072 | .216768 | 36.970 |
| %RSD | 40.28287 | 5.623618 | 1.364676 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.106742 | 4.059786 | 2671.200 |
| #2 | 1.739256 | 3.876135 | 2745.066 |
| #3 | .7813897 | 3.627860 | 2711.000 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-08 OPERATOR:
 RUN TIME: 03/23/09 22:22:05
 COMMENT: SDG:0903117 CLIENTID:IC-3 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2050911 | 25.47350 | 68.31299 | .4050603 | 29830.26 | .5299912 | .9755797 |
| SDEV | .2211401 | 12.21795 | .76277 | .2280522 | 155.61 | .0842576 | .1252417 |
| %RSD | 107.8253 | 47.96337 | 1.116578 | 56.30081 | .5216555 | 15.89792 | 12.83767 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4463747 | 24.63954 | 67.81542 | .4318836 | 29786.57 | .4395149 | .9406680 |
| #2 | .0120642 | 38.08707 | 69.19116 | .6185146 | 29701.16 | .5442475 | 1.114573 |
| #3 | .1568344 | 13.69390 | 67.93237 | .1647825 | 30003.04 | .6062112 | .8714982 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 10.57531 | -.261673 | 2220.497 | 701.5064 | 3189.447 | 2.985456 | 14157.50 |
| SDEV | .22616 | .383465 | 9.813 | 1.9015 | 13.035 | .054810 | 53.59 |
| %RSD | 2.138548 | 146.5434 | .4419431 | .2710536 | .4087060 | 1.835915 | .3785204 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 10.61209 | -.227258 | 2228.571 | 703.1173 | 3189.970 | 3.016683 | 14185.74 |
| #2 | 10.78083 | -.661186 | 2223.345 | 701.9929 | 3202.213 | 3.017517 | 14095.70 |
| #3 | 10.33302 | .1034241 | 2209.574 | 699.4089 | 3176.158 | 2.922168 | 14191.07 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TI1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.161035 | -6.04480 | .1943477 | 2.489423 | 3.489942 | .4318776 | 7.773226 |
| SDEV | .772907 | 1.31115 | .1333276 | .358875 | .872094 | 2.365959 | 1.946827 |
| %RSD | 14.97581 | 21.69048 | 68.60263 | 14.41599 | 24.98877 | 547.8309 | 25.04530 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.363347 | -5.21714 | .1181766 | 2.696276 | 2.680252 | 3.163564 | 6.234100 |
| #2 | 5.812665 | -5.36076 | .1165681 | 2.696963 | 4.413293 | -.899651 | 7.123826 |
| #3 | 4.307092 | -7.55651 | .3482984 | 2.075030 | 3.376279 | -.968281 | 9.961752 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.879292 | 6.888417 | 1.788159 | -12.8736 | 7.070133 | -1.23361 | 1.532358 |
| SDEV | 1.083424 | 2.881661 | 2.216360 | 7.1434 | .499864 | 1.52568 | 1.155307 |
| %RSD | 123.2154 | 41.83343 | 123.9464 | 55.48899 | 7.070084 | 123.6754 | 75.39404 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.561651 | 9.580635 | -.769864 | -4.72404 | 7.096925 | .4406881 | 1.262899 |
| #2 | -2.08603 | 7.235807 | 2.999053 | -15.8452 | 6.557411 | -1.59619 | .5355942 |
| #3 | .0098060 | 3.848808 | 3.135289 | -18.0516 | 7.556062 | -2.54535 | 2.798582 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .0996313 | .0031008 | 2676.400 |
| SDEV | .0986644 | .1609057 | 5.207 |
| %RSD | 99.02955 | 5189.133 | .1945489 |

| | | | |
|----|----------|----------|----------|
| #1 | .1006191 | -.171184 | 2673.733 |
| #2 | .0004767 | .1460035 | 2673.066 |
| #3 | .1977981 | .0344833 | 2682.400 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-09 OPERATOR:
 RUN TIME: 03/23/09 22:29:01
 COMMENT: SDG:0903117 CLIENTID:IC-8 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .2050911 | 753.5247 | 241.5912 | .5953659 | 21515.37 | .6078366 | 10.55336 |
| SDEV | .1506816 | 12.1850 | 1.2057 | .1109471 | 142.90 | .1949320 | .58065 |
| %RSD | 73.47057 | 1.617065 | .4990720 | 18.63511 | .6641751 | 32.06981 | 5.502041 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .3739896 | 766.8049 | 242.9384 | .7138703 | 21461.72 | .6684883 | 11.14109 |
| #2 | .1568344 | 742.8597 | 241.2219 | .4939617 | 21677.33 | .3897888 | 10.53892 |
| #3 | .0844493 | 750.9093 | 240.6134 | .5782657 | 21407.06 | .7652327 | 9.980058 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.338855 | .1378800 | 389.9465 | 1383.656 | 5126.361 | 144.5218 | 19183.01 |
| SDEV | .455803 | .1874738 | 6.9496 | 6.686 | 18.495 | .3587 | 133.80 |
| %RSD | 34.04420 | 135.9688 | 1.782188 | .4831785 | .3607889 | .2482014 | .6975004 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.830545 | .3513770 | 394.0669 | 1390.921 | 5133.783 | 144.1758 | 19251.52 |
| #2 | 1.255605 | .0621267 | 381.9228 | 1382.284 | 5139.994 | 144.8920 | 19268.67 |
| #3 | .9304158 | .0001363 | 393.8497 | 1377.763 | 5105.308 | 144.4976 | 19028.82 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TI1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 6.805597 | -4.45361 | .4041830 | 20.50749 | 3.019228 | -.613552 | 7.576185 |
| SDEV | .338188 | 2.85021 | .0626779 | .43149 | .526293 | .583330 | .585462 |
| %RSD | 4.969258 | 63.99773 | 15.50732 | 2.104084 | 17.43139 | 95.07429 | 7.727664 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 6.582224 | -1.16402 | .3318106 | 20.02403 | 3.626937 | -1.27652 | 7.807712 |
| #2 | 6.639885 | -6.01107 | .4399101 | 20.64489 | 2.714021 | -.178974 | 6.910365 |
| #3 | 7.194681 | -6.18573 | .4408281 | 20.85356 | 2.716726 | -.385160 | 8.010478 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.246063 | 6.741291 | 1.155986 | -11.1481 | 4.641385 | -2.74130 | .3937410 |
| SDEV | 3.041899 | .916748 | 1.056638 | 1.9373 | .092988 | 1.32034 | 1.230621 |
| %RSD | 1236.229 | 13.59899 | 91.40574 | 17.37824 | 2.003450 | 48.16482 | 312.5458 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.463844 | 6.326896 | 2.273953 | -13.3533 | 4.748353 | -1.73697 | -.523348 |
| #2 | 1.556109 | 7.792073 | .1738048 | -9.71976 | 4.579826 | -4.23684 | 1.792306 |
| #3 | -3.75814 | 6.104906 | 1.020201 | -10.3712 | 4.595977 | -2.25009 | -.087735 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .6097881 | 9.549281 | 2725.844 |
| SDEV | .4175440 | .362783 | 15.348 |
| %RSD | 68.47362 | 3.799058 | .5630531 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.079123 | 9.174764 | 2709.666 |
| #2 | .2795356 | 9.574017 | 2727.666 |
| #3 | .4707057 | 9.899063 | 2740.200 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-10 OPERATOR:
 RUN TIME: 03/23/09 22:35:58
 COMMENT: SDG:0903117 CLIENTID:IC-9 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0603209 | 4687.325 | 189.4388 | .4620542 | 22283.04 | .5015569 | 7.177481 |
| SDEV | .2463576 | 214.271 | 6.7648 | .3418977 | 719.16 | .3521274 | 1.333167 |
| %RSD | 408.4115 | 4.571285 | 3.570952 | 73.99514 | 3.227371 | 70.20686 | 18.57430 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.132706 | 4871.981 | 193.7193 | .5412713 | 22652.98 | .4271977 | 7.847305 |
| #2 | .3377971 | 4737.609 | 192.9572 | .7573897 | 22741.93 | .8849254 | 8.042916 |
| #3 | -.024128 | 4452.383 | 181.6399 | .0875017 | 21454.22 | .1925477 | 5.642220 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.903677 | 1.482669 | 7866.427 | 1359.109 | 4229.462 | 159.5824 | 15251.85 |
| SDEV | .106645 | .230407 | 266.361 | 39.851 | 152.996 | 5.8500 | 483.36 |
| %RSD | 2.174798 | 15.54003 | 3.386044 | 2.932130 | 3.617391 | 3.665809 | 3.169172 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.839974 | 1.654844 | 7968.702 | 1388.704 | 4296.612 | 161.2060 | 15592.11 |
| #2 | 4.844263 | 1.220928 | 8066.493 | 1374.827 | 4337.400 | 164.4491 | 15464.86 |
| #3 | 5.026796 | 1.572235 | 7564.087 | 1313.796 | 4054.374 | 153.0921 | 14698.57 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.457036 | -4.37105 | 5.877455 | 25.97782 | 5.151431 | -1.42032 | 6.818328 |
| SDEV | .729889 | 4.23894 | .074423 | .75847 | .582088 | 2.22176 | 2.141477 |
| %RSD | 16.37611 | 96.97761 | 1.266250 | 2.919694 | 11.29954 | 156.4263 | 31.40766 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.606654 | -8.92281 | 5.818085 | 25.74239 | 5.168296 | -2.86456 | 7.102296 |
| #2 | 5.100523 | -3.65396 | 5.853332 | 26.82610 | 4.561093 | 1.138054 | 8.803654 |
| #3 | 3.663931 | -.536394 | 5.960947 | 25.36499 | 5.724903 | -2.53446 | 4.549035 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.143382 | 8.858896 | 3.295540 | -14.7948 | 5.252481 | -1.50646 | 2.491886 |
| SDEV | 3.134108 | 1.123055 | .938718 | 2.2345 | 2.302573 | 1.04950 | .940408 |
| %RSD | 146.2226 | 12.67714 | 28.48451 | 15.10302 | 43.83782 | 69.66655 | 37.73880 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.088404 | 10.13576 | 2.683273 | -16.8554 | 4.115923 | -1.42762 | 1.457458 |
| #2 | 4.696236 | 8.024325 | 2.827052 | -12.4198 | 7.902350 | -2.59316 | 2.723028 |
| #3 | -1.35449 | 8.416607 | 4.376296 | -15.1091 | 3.739169 | -.498605 | 3.295170 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.413979 | 141.2895 | 2761.733 |
| SDEV | .613954 | 2.9965 | 79.568 |
| %RSD | 25.43327 | 2.120804 | 2.881087 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.358428 | 139.9217 | 2717.000 |
| #2 | 3.053820 | 144.7258 | 2714.600 |
| #3 | 1.829688 | 139.2210 | 2853.600 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-11 OPERATOR:
 RUN TIME: 03/23/09 22:42:54
 COMMENT: SDG:0903117 CLIENTID:TC-21 1:1
 MODE: CONC CORR. FACTOR: 1

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0361925 | 600.7364 | 76.84198 | .6731017 | 3300.367 | .2743866 | 3.707130 |
| SDEV | .1506816 | 11.2261 | .81929 | .2168574 | 39.351 | .1211646 | .124301 |
| %RSD | 416.3331 | 1.868715 | 1.066197 | 32.21763 | 1.192319 | 44.15836 | 3.353037 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1568344 | 611.3699 | 76.83886 | .9166116 | 3257.067 | .2225162 | 3.600556 |
| #2 | -.132706 | 588.9993 | 76.02426 | .5008064 | 3310.086 | .1877920 | 3.677157 |
| #3 | .0844493 | 601.8398 | 77.66283 | .6018870 | 3333.947 | .4128517 | 3.843678 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 53.02694 | -.123694 | 604.6327 | 547.7717 | 1967.462 | 29.06713 | 3807.898 |
| SDEV | .63270 | .347642 | 11.6051 | 3.7453 | 10.989 | .23261 | 44.625 |
| %RSD | 1.193161 | 281.0509 | 1.919363 | .6837289 | .5585160 | .8002530 | 1.171916 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 52.32390 | -.392352 | 598.3389 | 551.6727 | 1957.172 | 28.92540 | 3776.305 |
| #2 | 53.20639 | .2689418 | 597.5342 | 544.2045 | 1966.177 | 28.94039 | 3788.440 |
| #3 | 53.55052 | -.247671 | 618.0251 | 547.4379 | 1979.036 | 29.33558 | 3858.948 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.414963 | -4.47034 | .9249786 | 6.695904 | 4.101741 | .4466452 | 6.711758 |
| SDEV | .432525 | 1.55307 | .1128545 | .884121 | .770429 | 1.221056 | .757990 |
| %RSD | 17.91023 | 34.74157 | 12.20077 | 13.20391 | 18.78297 | 273.3838 | 11.29347 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.916009 | -6.15886 | .8092874 | 5.762921 | 4.991120 | -.928523 | 5.944375 |
| #2 | 2.683464 | -3.10293 | 1.034765 | 7.521322 | 3.674793 | .8646733 | 6.730906 |
| #3 | 2.645415 | -4.14924 | .9308838 | 6.803468 | 3.639311 | 1.403786 | 7.459993 |

| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
|--------|----------|----------|----------|----------|----------|----------|----------|
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -2.03505 | 8.499424 | 1.901187 | -8.51036 | 4.913981 | -2.84413 | 1.519065 |
| SDEV | .92256 | 2.922559 | .336305 | 1.51980 | 1.209010 | .65179 | .905087 |
| %RSD | 45.33360 | 34.38538 | 17.68920 | 17.85821 | 24.60347 | 22.91717 | 59.58185 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.68503 | 11.86112 | 1.556240 | -10.2079 | 3.699731 | -2.25047 | 1.408135 |
| #2 | -2.44100 | 6.562482 | 2.228126 | -7.27611 | 4.924529 | -2.74032 | .6745564 |
| #3 | -.979126 | 7.074666 | 1.919196 | -8.04709 | 6.117681 | -3.54160 | 2.474505 |

| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
|--------|----------|---------|---------|---------|---------|----------|----------|
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.565778 | 2.165567 | 2719.666 |
| SDEV | .458508 | .253592 | 10.941 |
| %RSD | 29.28306 | 11.71017 | .4022807 |

| | | | |
|----|----------|----------|----------|
| #1 | 2.069017 | 2.420905 | 2709.533 |
| #2 | 1.456612 | 2.162039 | 2731.267 |
| #3 | 1.171707 | 1.913758 | 2718.200 |

| ERRORS | LC PASS | LC PASS | NOCHECK |
|--------|----------|----------|---------|
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV1
 RUN TIME: 03/23/09 22:49:50
 COMMENT: CCV CVS1
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 101.7734 | 50537.62 | 1013.579 | 1025.994 | 51864.21 | 1027.556 | 1012.387 |
| SDEV | .5299 | 782.16 | 11.283 | 18.708 | 897.85 | 16.390 | 16.603 |
| %RSD | .5206304 | 1.547679 | 1.113223 | 1.823408 | 1.731151 | 1.595031 | 1.639979 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 102.2560 | 50987.09 | 1018.882 | 1039.113 | 52557.93 | 1036.914 | 1025.401 |
| #2 | 101.8579 | 50991.31 | 1021.233 | 1034.296 | 52184.59 | 1037.123 | 1018.071 |
| #3 | 101.2064 | 49634.46 | 1000.621 | 1004.571 | 50850.12 | 1008.631 | 993.6881 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1023.221 | 1033.992 | 25213.86 | 52881.96 | 50801.68 | 1016.167 | 51781.21 |
| SDEV | 18.735 | 2.765 | 440.58 | 657.84 | 907.67 | 16.235 | 623.67 |
| %RSD | 1.830939 | .2673644 | 1.747385 | 1.243983 | 1.786688 | 1.597625 | 1.204430 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1037.030 | 1033.989 | 25526.26 | 53170.04 | 51374.36 | 1031.511 | 52240.33 |
| #2 | 1030.738 | 1036.758 | 25405.40 | 53346.62 | 51275.53 | 1017.821 | 52032.14 |
| #3 | 1001.895 | 1031.229 | 24709.93 | 52129.22 | 49755.15 | 999.1688 | 51071.16 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1023.259 | 1026.035 | 1002.705 | 1134.968 | 1028.306 | 1033.572 | 1043.348 |
| SDEV | 15.664 | 16.378 | 22.332 | 21.095 | 13.746 | 9.646 | 13.709 |
| %RSD | 1.530806 | 1.596242 | 2.227220 | 1.858622 | 1.336734 | .9332200 | 1.313963 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1032.271 | 1035.719 | 1015.222 | 1152.169 | 1034.660 | 1036.225 | 1044.209 |
| #2 | 1032.334 | 1035.261 | 1015.972 | 1141.303 | 1037.725 | 1041.614 | 1056.606 |
| #3 | 1005.171 | 1007.125 | 976.9215 | 1111.431 | 1012.533 | 1022.878 | 1029.228 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1031.826 | 1018.730 | 1033.080 | 1036.074 | 1032.319 | 1021.663 | 1035.249 |
| SDEV | 16.000 | 19.711 | 10.894 | 15.496 | 8.042 | 16.161 | 14.437 |
| %RSD | 1.550691 | 1.934900 | 1.054484 | 1.495653 | .7789848 | 1.581867 | 1.394528 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1038.881 | 1030.205 | 1036.877 | 1047.051 | 1030.815 | 1031.868 | 1041.051 |
| #2 | 1043.087 | 1030.015 | 1041.568 | 1042.824 | 1041.006 | 1030.092 | 1045.882 |
| #3 | 1013.511 | 995.9691 | 1020.797 | 1018.348 | 1025.136 | 1003.030 | 1018.814 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1012.334 | 1011.442 | 2737.933 |
| SDEV | 17.624 | 15.518 | 30.490 |
| %RSD | 1.740949 | 1.534237 | 1.113612 |

| | | | |
|----|----------|----------|----------|
| #1 | 1012.781 | 1022.416 | 2720.933 |
| #2 | 1029.730 | 1018.222 | 2719.733 |
| #3 | 994.4904 | 993.6880 | 2773.133 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB1
RUN TIME: 03/23/09 22:56:47
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.120642 | 17.37724 | -.040354 | .3952566 | -209.847 | .4518319 | .6535977 |
| SDEV | .110570 | 3.33972 | .022447 | .1139272 | .493 | .2237350 | .4528191 |
| %RSD | 91.65151 | 19.21893 | 55.62413 | 28.82359 | .2351369 | 49.51730 | 69.28102 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.096513 | 15.20648 | -.033025 | .2658625 | -209.489 | .5814590 | .1408075 |
| #2 | -.241284 | 21.22298 | -.065549 | .4394046 | -209.642 | .5805512 | .8215061 |
| #3 | -.024128 | 15.70226 | -.022488 | .4805028 | -210.410 | .1934856 | .9984793 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .4986215 | -.199717 | 10.74646 | 5.055018 | 2.736988 | .0329096 | 12.51302 |
| SDEV | .0475002 | .281304 | 4.04670 | .841609 | 2.855405 | .0821933 | 14.89053 |
| %RSD | 9.526312 | 140.8510 | 37.65613 | 16.64898 | 104.3265 | 249.7551 | 119.0003 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5259779 | .0206900 | 7.531972 | 4.614464 | -.559596 | .0329037 | .2500976 |
| #2 | .4437730 | -.103288 | 15.29072 | 4.525136 | 4.332986 | -.049281 | 8.206881 |
| #3 | .5261135 | -.516554 | 9.416676 | 6.025455 | 4.437575 | .1151058 | 29.08208 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .3767275 | 1.024810 | .0871920 | -.134147 | .8247997 | .6555033 | .4119226 |
| SDEV | .5560988 | 1.792768 | .0023197 | .656863 | .3011381 | 2.371425 | .8588801 |
| %RSD | 147.6130 | 174.9366 | 2.660436 | 489.6571 | 36.51046 | 361.7716 | 208.5052 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5401577 | 2.734927 | .0858376 | -.433974 | .7656248 | -.867423 | .9903489 |
| #2 | -.242774 | -.840517 | .0898705 | -.587597 | 1.151133 | 3.387798 | .8203787 |
| #3 | .8327984 | 1.180021 | .0858679 | .6191285 | .5576416 | -.553866 | -.574960 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.026168 | -.128040 | 1.295503 | 1.374138 | .2922781 | -.928030 | .3845063 |
| SDEV | 2.326416 | 2.422621 | 1.338751 | 2.877220 | 2.440013 | 1.861153 | .8026523 |
| %RSD | 114.8185 | 1892.083 | 103.3384 | 209.3836 | 834.8261 | 200.5488 | 208.7488 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.630946 | 2.665011 | -.187642 | -1.63312 | -.489591 | -.981362 | 1.216219 |
| #2 | 3.696805 | -1.38950 | 2.414523 | 4.100755 | 3.027392 | .9592155 | -.385527 |
| #3 | 3.012646 | -1.65963 | 1.659628 | 1.654778 | -1.66097 | -2.76194 | .3228274 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 2.087091 | .2054578 | 2723.578 |
| SDEV | .146372 | .0945260 | 8.801 |
| %RSD | 7.013185 | 46.00748 | .3231533 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.953136 | .2652503 | 2726.066 |
| #2 | 2.064813 | .0964806 | 2713.800 |
| #3 | 2.243325 | .2546427 | 2730.867 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-12 OPERATOR:
 RUN TIME: 03/23/09 23:03:44
 COMMENT: SDG:0903117 CLIENTID:BC-15 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0361925 | 25.28258 | 18.36238 | .3017961 | 182.4755 | .3383514 | .1817874 |
| SDEV | .0208958 | 8.01604 | .50015 | .2012600 | 13.6587 | .5496151 | .8434673 |
| %RSD | 57.73503 | 31.70579 | 2.723775 | 66.68741 | 7.485214 | 162.4392 | 463.9856 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0120642 | 30.00829 | 17.89160 | .4431046 | 167.4320 | -.166113 | -.690176 |
| #2 | .0482567 | 16.02714 | 18.30808 | .0713623 | 185.8949 | .2570966 | .2420067 |
| #3 | .0482567 | 29.81231 | 18.88746 | .3909214 | 194.0996 | .9240706 | .9935312 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 6.548632 | -.158310 | 61.38350 | 454.1189 | 793.7877 | 4.810879 | 5295.406 |
| SDEV | .201197 | .165756 | 7.47912 | 7.4248 | 18.3561 | .197768 | 162.011 |
| %RSD | 3.072354 | 104.7035 | 12.18426 | 1.634985 | 2.312464 | 4.110853 | 3.059461 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 6.347264 | -.330541 | 62.76844 | 448.0824 | 776.6390 | 4.643607 | 5150.105 |
| #2 | 6.548973 | .0001059 | 53.30870 | 451.8649 | 791.5737 | 4.759878 | 5266.010 |
| #3 | 6.749658 | -.144494 | 68.07335 | 462.4095 | 813.1503 | 5.029153 | 5470.102 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.046162 | -4.25160 | .3482268 | 3.598390 | 3.093602 | -2.72795 | 6.092498 |
| SDEV | .509367 | 1.35302 | .1260610 | .580614 | .137218 | .33902 | .325188 |
| %RSD | 12.58890 | 31.82384 | 36.20083 | 16.13538 | 4.435537 | 12.42756 | 5.337507 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.601487 | -3.02378 | .2253951 | 3.003328 | 3.040401 | -2.34131 | 6.466130 |
| #2 | 4.601896 | -5.70218 | .3419993 | 3.628455 | 3.249455 | -2.97436 | 5.873335 |
| #3 | 3.935103 | -4.02885 | .4772863 | 4.163387 | 2.990951 | -2.86817 | 5.938028 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.530875 | 8.391380 | .4436451 | -11.1383 | 1.466450 | -1.36372 | 1.401595 |
| SDEV | .816579 | 2.637052 | 1.444949 | 2.1983 | 1.282172 | 1.24164 | 1.893577 |
| %RSD | 153.8175 | 31.42572 | 325.6992 | 19.73613 | 87.43371 | 91.04845 | 135.1015 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.563902 | 6.635908 | 1.240359 | -11.9373 | 2.445039 | -2.65162 | -.397048 |
| #2 | -1.33044 | 7.114405 | 1.314859 | -12.8254 | 1.939308 | -.174185 | 1.224212 |
| #3 | .3017159 | 11.42383 | -1.22428 | -8.65229 | .0150032 | -1.26535 | 3.377622 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.413481 | .1886538 | 2703.356 |
| SDEV | .041704 | .0939782 | 37.273 |
| %RSD | 2.950452 | 49.81520 | 1.378753 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.454553 | .2106734 | 2733.267 |
| #2 | 1.371173 | .0856208 | 2715.200 |
| #3 | 1.414716 | .2696671 | 2661.600 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-13 OPERATOR:
 RUN TIME: 03/23/09 23:10:41
 COMMENT: SDG:0903117 CLIENTID:IC-7 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1568344 | 899.4241 | 96.86731 | .8516992 | 23935.80 | .6381831 | 4.897460 |
| SDEV | .1304941 | 9.6276 | .47297 | .0908944 | 149.78 | .0463387 | .060209 |
| %RSD | 83.20503 | 1.070414 | .4882685 | 10.67212 | .6257586 | 7.261035 | 1.229394 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2654120 | 900.3424 | 96.67157 | .7722191 | 24080.76 | .5849673 | 4.893499 |
| #2 | .1930269 | 908.5596 | 97.40673 | .9508023 | 23945.02 | .6696220 | 4.839329 |
| #3 | .0120642 | 889.3703 | 96.52363 | .8320763 | 23781.62 | .6599598 | 4.959551 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.569886 | 1.288191 | 349.8225 | 1529.614 | 4028.135 | 88.77072 | 16057.60 |
| SDEV | .112696 | .497672 | 2.0617 | 10.870 | 22.471 | .37364 | 146.28 |
| %RSD | 2.023305 | 38.63341 | .5893630 | .7106477 | .5578488 | .4209064 | .9110018 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.542617 | 1.859754 | 349.1498 | 1535.607 | 4051.700 | 89.19658 | 16226.32 |
| #2 | 5.693714 | .9507893 | 352.1365 | 1536.168 | 4025.757 | 88.61774 | 15980.22 |
| #3 | 5.473327 | 1.054030 | 348.1810 | 1517.066 | 4006.948 | 88.49785 | 15966.26 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 4.251575 | -5.33404 | .6344270 | 19.04861 | 2.668535 | -.110864 | 7.328187 |
| SDEV | .949936 | .72210 | .2942271 | .59702 | 1.553089 | 1.206271 | 1.471467 |
| %RSD | 22.34316 | 13.53761 | 46.37683 | 3.134166 | 58.20005 | 1088.062 | 20.07955 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.341849 | -5.82216 | .3256583 | 18.39480 | 2.159999 | .5857455 | 8.516371 |
| #2 | 3.602252 | -4.50454 | .9115551 | 19.56480 | 1.433465 | .5854080 | 5.682250 |
| #3 | 3.810623 | -5.67542 | .6660676 | 19.18623 | 4.412141 | -1.50375 | 7.785940 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.595781 | 6.994493 | .5037556 | -12.7594 | 6.199448 | -1.89960 | 1.197722 |
| SDEV | 1.281325 | 1.326326 | 1.698177 | 1.5026 | 2.215482 | .78727 | 1.131813 |
| %RSD | 80.29456 | 18.96243 | 337.1034 | 11.77661 | 35.73677 | 41.44386 | 94.49714 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1166900 | 6.191535 | .1421807 | -11.7237 | 6.726711 | -1.40905 | 1.639395 |
| #2 | 2.303512 | 6.266555 | -.984515 | -14.4828 | 8.103731 | -1.48206 | -.088335 |
| #3 | 2.367140 | 8.525391 | 2.353601 | -12.0718 | 3.767901 | -2.80768 | 2.042105 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | .9194560 | 7.457118 | 2702.889 |
| SDEV | .3274980 | 1.250163 | 20.626 |
| %RSD | 35.61868 | 16.76469 | .7631116 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.294707 | 8.886328 | 2687.533 |
| #2 | .6912720 | 6.918375 | 2694.800 |
| #3 | .7723889 | 6.566651 | 2726.333 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-14 OPERATOR:
 RUN TIME: 03/23/09 23:17:37
 COMMENT: SDG:0903117 CLIENTID:IC-10 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .1327060 | 4844.302 | 25.19196 | .6793758 | 31156.58 | .9635618 | .4739758 |
| SDEV | .0552850 | 144.297 | .47672 | .1027408 | 476.18 | .3043770 | .7162601 |
| %RSD | 41.65978 | 2.978700 | 1.892348 | 15.12282 | 1.528335 | 31.58873 | 151.1174 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1930269 | 4999.795 | 25.57355 | .7405056 | 31304.67 | 1.275623 | .8320906 |
| #2 | .0844493 | 4714.709 | 24.65758 | .5607596 | 30623.95 | .6675005 | -.350716 |
| #3 | .1206418 | 4818.402 | 25.34476 | .7368621 | 31541.11 | .9475617 | .9405530 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 5.647837 | 2.261065 | 36970.02 | 1675.959 | 4178.234 | 105.9538 | 17783.12 |
| SDEV | .231347 | .207950 | 544.84 | 28.026 | 58.225 | 1.7345 | 211.90 |
| %RSD | 4.096207 | 9.197000 | 1.473736 | 1.672258 | 1.393520 | 1.637018 | 1.191588 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.908924 | 2.233588 | 37257.63 | 1697.563 | 4205.398 | 107.0710 | 17959.76 |
| #2 | 5.468339 | 2.481388 | 36341.64 | 1644.290 | 4111.392 | 103.9556 | 17548.17 |
| #3 | 5.566247 | 2.068220 | 37310.78 | 1686.025 | 4217.914 | 106.8347 | 17841.43 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.709759 | -3.38790 | 6.139424 | 15.26492 | 4.966457 | -.686162 | 7.396452 |
| SDEV | .467170 | 2.03307 | .259154 | .45736 | 1.492415 | 2.511407 | 1.329785 |
| %RSD | 17.24029 | 60.00980 | 4.221139 | 2.996129 | 30.04990 | 366.0080 | 17.97869 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.207371 | -3.63294 | 6.377129 | 15.19517 | 3.387629 | .0096004 | 8.071531 |
| #2 | 2.790798 | -1.24341 | 5.863146 | 14.84644 | 5.157726 | -3.47210 | 8.253286 |
| #3 | 3.131108 | -5.28734 | 6.177997 | 15.75314 | 6.354017 | 1.404010 | 5.864538 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 2.382832 | 7.943428 | 3.475222 | -14.6230 | 6.267387 | -1.95722 | 1.897159 |
| SDEV | 1.132014 | .792682 | 2.172112 | 2.4394 | 4.088418 | 1.41154 | .607596 |
| %RSD | 47.50707 | 9.979095 | 62.50285 | 16.68169 | 65.23322 | 72.11945 | 32.02662 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.904927 | 8.087754 | 1.036065 | -17.4171 | 8.705412 | -1.95657 | 2.563891 |
| #2 | 3.159578 | 7.088500 | 4.188876 | -13.5348 | 1.547348 | -.546010 | 1.752932 |
| #3 | 1.083990 | 8.654032 | 5.200724 | -12.9171 | 8.549400 | -3.36909 | 1.374653 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.915126 | 99.63210 | 2736.311 |
| SDEV | .579242 | 7.97254 | 34.459 |
| %RSD | 30.24566 | 8.001978 | 1.259337 |

| | | | |
|----|----------|----------|----------|
| #1 | 1.770885 | 108.2146 | 2712.333 |
| #2 | 1.421633 | 92.45702 | 2775.800 |
| #3 | 2.552859 | 98.22464 | 2720.800 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: 0903117-15 OPERATOR:
 RUN TIME: 03/23/09 23:24:34
 COMMENT: SDG:0903117 CLIENTID:FB-2 1:1
 MODE: CONC CORR. FACTOR: 1

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0723851 | 52.84201 | -.064834 | 1.045403 | -203.542 | 1.275396 | 2.604962 |
| SDEV | .1163427 | 49.92529 | .029675 | .995872 | 1.052 | 1.200522 | 3.785280 |
| %RSD | 160.7275 | 94.48030 | 45.77064 | 95.26196 | .5170144 | 94.12940 | 145.3104 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1568344 | 27.78048 | -.036910 | .5302787 | -204.757 | .3005781 | .2654371 |
| #2 | .1206418 | 20.41196 | -.061596 | .4126032 | -202.947 | .9092521 | .5773324 |
| #3 | -.060321 | 110.3336 | -.095994 | 2.193329 | -202.922 | 2.616357 | 6.972116 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 3000.000 | 600000.0 | 50000.00 | 5000.000 | 600000.0 | 10000.00 | 50000.00 |
| LOW | -10.0000 | -200.000 | -200.000 | -5.00000 | -1000.00 | -5.00000 | -50.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1.291925 | -.826473 | 24.91452 | 3.941412 | 3.223902 | .2318264 | 522.6699 |
| SDEV | .708882 | .379465 | 7.76005 | .271746 | 3.781995 | .1221726 | 78.8306 |
| %RSD | 54.87022 | 45.91376 | 31.14670 | 6.894634 | 117.3111 | 52.70001 | 15.08229 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5222741 | -.991842 | 23.38006 | 4.171565 | -1.06681 | .1230495 | 442.8021 |
| #2 | 1.435417 | -.392386 | 33.32716 | 4.011046 | 6.073394 | .2084214 | 600.4206 |
| #3 | 1.918084 | -1.09519 | 18.03633 | 3.641624 | 4.665125 | .3640084 | 524.7869 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 40000.00 | 600000.0 | 600000.0 | 600000.0 | 40000.00 | 600000.0 |
| LOW | -10.0000 | -25.0000 | -100.000 | -1000.00 | -1000.00 | -15.0000 | -2000.00 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -1.37251 | -5.97747 | .1850639 | 1.103123 | 3.751956 | -.463664 | 6.998169 |
| SDEV | .67663 | 4.21121 | .4456720 | .318375 | .656522 | 3.204269 | 2.156421 |
| %RSD | 49.29847 | 70.45144 | 240.8207 | 28.86125 | 17.49813 | 691.0757 | 30.81407 |

| | | | | | | | |
|----|----------|-----------|----------|----------|----------|----------|----------|
| #1 | -2.09993 | -5.72353 | -.019723 | .7874996 | 3.165383 | .8264970 | 4.890927 |
| #2 | -1.25573 | -1.89897 | .6963220 | 1.097688 | 3.629347 | -4.11190 | 6.902966 |
| #3 | -.761878 | L-10.3099 | -.121407 | 1.424180 | 4.461140 | 1.894413 | 9.200615 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS | LC PASS |
| HIGH | 60000.00 | 60000.00 | 40000.00 | 40000.00 | 60000.00 | 40000.00 | 40000.00 |
| LOW | -40.0000 | -10.0000 | -50.0000 | -20.0000 | -3.00000 | -5.00000 | -60.0000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -1.47820 | 7.778474 | 1.736369 | -13.9126 | 6.245975 | -4.27068 | 1.919270 |
| SDEV | 1.59272 | .794606 | .805953 | 5.1752 | 2.604196 | .73028 | 1.341349 |
| %RSD | 107.7474 | 10.21545 | 46.41598 | 37.19821 | 41.69399 | 17.09984 | 69.88851 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.45505 | 7.806309 | .8432907 | -9.86070 | 6.157545 | -3.93913 | 1.177344 |
| #2 | .1028233 | 6.970317 | 1.956262 | -19.7425 | 3.687120 | -5.10791 | 3.467678 |
| #3 | -3.08236 | 8.558798 | 2.409554 | -12.1347 | 8.893260 | -3.76499 | 1.112788 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | LC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC PASS | LC PASS |
| HIGH | 10000.00 | | | | | 40000.00 | 40000.00 |
| LOW | -5.00000 | | | | | -20.0000 | -10.0000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1.132393 | .1319608 | 2557.178 |
| SDEV | .294081 | .2005957 | 187.457 |
| %RSD | 25.96987 | 152.0115 | 7.330625 |

| | | | |
|----|----------|----------|----------|
| #1 | .8066198 | -.013639 | 2667.400 |
| #2 | 1.212287 | .3607708 | 2663.400 |
| #3 | 1.378271 | .0487506 | 2340.733 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | LC PASS | LC PASS | NOCHECK |
| HIGH | 30000.00 | 40000.00 | |
| LOW | -10.0000 | -30.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCV1
 RUN TIME: 03/23/09 23:31:31
 COMMENT: CCV CVS1
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 101.7252 | 51172.53 | 1022.806 | 1029.807 | 52177.79 | 1034.991 | 1019.782 |
| SDEV | .3643 | 232.79 | 6.787 | 2.505 | 140.62 | 3.681 | 8.421 |
| %RSD | .3581496 | .4549211 | .6635684 | .2432394 | .2694971 | .3556383 | .8257932 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 101.3874 | 51375.62 | 1028.719 | 1031.265 | 52278.54 | 1039.063 | 1029.177 |
| #2 | 102.1112 | 51223.49 | 1015.396 | 1026.915 | 52017.14 | 1031.899 | 1017.259 |
| #3 | 101.6769 | 50918.47 | 1024.304 | 1031.242 | 52237.68 | 1034.011 | 1012.911 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 100.0000 | 50000.00 | 1000.000 | 1000.000 | 50000.00 | 1000.000 | 1000.000 |
| RANGE | 10.40000 | 5200.000 | 104.0000 | 104.0000 | 5200.000 | 104.0000 | 104.0000 |

| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1038.501 | 1036.262 | 25523.84 | 53260.99 | 51426.74 | 1025.983 | 52233.98 |
| SDEV | 3.043 | 4.694 | 104.25 | 222.68 | 276.66 | 7.399 | 395.76 |
| %RSD | .2929861 | .4529605 | .4084449 | .4180829 | .5379627 | .7212097 | .7576596 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1041.860 | 1041.037 | 25638.57 | 53482.97 | 51745.19 | 1033.938 | 52597.17 |
| #2 | 1037.712 | 1036.096 | 25498.03 | 53262.36 | 51289.48 | 1024.705 | 52292.59 |
| #3 | 1035.930 | 1031.653 | 25434.92 | 53037.63 | 51245.56 | 1019.305 | 51812.19 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 25000.00 | 50000.00 | 50000.00 | 1000.000 | 50000.00 |
| RANGE | 104.0000 | 104.0000 | 2600.000 | 5200.000 | 5200.000 | 104.0000 | 5200.000 |

| ELEM | NI2316 | TL1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1031.369 | 1030.311 | 1014.392 | 1144.437 | 1032.076 | 1044.511 | 1051.646 |
| SDEV | 4.657 | 4.006 | 4.491 | 7.326 | 4.553 | 2.200 | 5.611 |
| %RSD | .4515243 | .3888631 | .4426998 | .6401442 | .4411807 | .2106514 | .5335739 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1036.694 | 1026.477 | 1019.552 | 1152.233 | 1032.523 | 1046.960 | 1056.020 |
| #2 | 1029.355 | 1029.985 | 1011.365 | 1137.695 | 1027.316 | 1042.703 | 1045.319 |
| #3 | 1028.058 | 1034.471 | 1012.260 | 1143.385 | 1036.390 | 1043.869 | 1053.598 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | 1000.000 | 1000.000 | 1000.000 | 1100.000 | 1000.000 | 1000.000 | 1000.000 |
| RANGE | 104.0000 | 104.0000 | 104.0000 | 114.0000 | 104.0000 | 104.0000 | 104.0000 |

| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
|-------|----------|----------|----------|----------|----------|----------|----------|
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | 1041.756 | 1024.000 | 1036.102 | 1048.344 | 1042.592 | 1034.528 | 1044.873 |
| SDEV | 3.897 | 6.129 | 3.940 | 3.580 | 2.322 | 5.832 | 5.147 |
| %RSD | .3740947 | .5985373 | .3802855 | .3414989 | .2227009 | .5636973 | .4925963 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1046.227 | 1022.810 | 1037.366 | 1050.539 | 1045.169 | 1037.619 | 1049.993 |
| #2 | 1039.073 | 1018.553 | 1031.685 | 1044.213 | 1041.944 | 1027.801 | 1039.699 |
| #3 | 1039.970 | 1030.637 | 1039.255 | 1050.280 | 1040.664 | 1038.163 | 1044.928 |

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
|--------|---------|---------|---------|---------|---------|---------|---------|

| | | | | | | | |
|-------|----------|--|--|--|--|----------|----------|
| VALUE | 1000.000 | | | | | 1000.000 | 1000.000 |
| RANGE | 104.0000 | | | | | 104.0000 | 104.0000 |

| ELEM | MO2020 | TI3349 | Y_3710 |
|-------|----------|----------|----------|
| UNITS | UG/L | UG/L | PPM |
| AVGE | 1018.748 | 1019.871 | 2715.356 |
| SDEV | 9.269 | 3.630 | 9.412 |
| %RSD | .9098182 | .3559605 | .3466089 |

| | | | |
|----|----------|----------|----------|
| #1 | 1015.192 | 1019.258 | 2704.666 |
| #2 | 1011.784 | 1023.769 | 2722.400 |
| #3 | 1029.268 | 1016.587 | 2719.000 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | 1000.000 | 1000.000 | |
| RANGE | 104.0000 | 104.0000 | |

METHOD: ALT-P4Q1 SAMPLE NAME: CCB1
 RUN TIME: 03/23/09 23:38:27
 COMMENT: CCB
 MODE: CONC CORR. FACTOR: 1

OPERATOR:

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AG3280 | AL3082 | BA4934 | BE3130 | CA3179 | CD2265 | CO2286 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .0482567 | 33.03226 | .0380355 | .6049247 | -204.200 | .5318728 | 1.094356 |
| SDEV | .2201507 | 4.55180 | .0292326 | .0217391 | .372 | .2280001 | .460442 |
| %RSD | 456.2071 | 13.77986 | 76.85612 | 3.593686 | .1823143 | 42.86741 | 42.07427 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1930269 | 35.43635 | .0714787 | .5817083 | -204.067 | .6984896 | 1.513285 |
| #2 | .1568344 | 35.87795 | .0252779 | .6247994 | -203.912 | .6250952 | 1.168405 |
| #3 | -.205091 | 27.78248 | .0173500 | .6082666 | -204.620 | .2720335 | .6013765 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 200.0000 | 200.0000 | 5.000000 | 5000.000 | 5.000000 | 5.000000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | CR2677 | CU3247 | FE2714 | K_7664 | MG2790 | MN2576 | NA3302 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6874875 | -.385647 | 23.73624 | 7.811665 | 7.401782 | .2005207 | -25.7679 |
| SDEV | .1626708 | .172056 | 1.08133 | 1.251324 | 1.885876 | .0026525 | 47.0172 |
| %RSD | 23.66163 | 44.61489 | 4.555627 | 16.01866 | 25.47867 | 1.322808 | 182.4646 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .6882485 | -.578468 | 23.06906 | 9.160276 | 5.826478 | .2010514 | 1.042281 |
| #2 | .5244377 | -.247784 | 23.15582 | 7.586519 | 9.491486 | .2028678 | 1.711426 |
| #3 | .8497766 | -.330689 | 24.98385 | 6.688198 | 6.887382 | .1976430 | -80.0573 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 5.000000 | 5.000000 | 100.0000 | 5000.000 | 5000.000 | 10.00000 | 5000.000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | NI2316 | TI1908 | V_2924 | ZN2062 | PB2203 | SE1960 | SB2068 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | .6235846 | 1.479969 | .2111192 | .1199580 | 1.401498 | .2330333 | 1.762156 |
| SDEV | .5211415 | 2.595020 | .4210632 | .6107247 | 1.150985 | 1.491691 | .440746 |
| %RSD | 83.57189 | 175.3428 | 199.4434 | 509.1154 | 82.12534 | 640.1193 | 25.01173 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1489610 | -1.49478 | .3262141 | .7754132 | .9576986 | -.277065 | 2.043281 |
| #2 | 1.181268 | 3.279202 | .5626672 | .0175491 | .5384791 | 1.912861 | 1.254193 |
| #3 | .5405253 | 2.655491 | -.255524 | -.433088 | 2.708316 | -.936696 | 1.988994 |

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ERRORS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS | QC PASS |
| VALUE | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 | .0000000 |
| RANGE | 40.00000 | 10.00000 | 20.00000 | 20.00000 | 3.000000 | 5.000000 | 10.00000 |

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | AS1890 | 22031 | 22032 | 19601 | 19602 | SN1899 | BI2230 |
| UNITS | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| AVGE | -.198010 | 1.171655 | 1.511225 | 3.221362 | -1.26336 | -.744505 | .7778778 |
| SDEV | 2.528803 | .443357 | 1.801234 | 3.242292 | 1.71356 | .168623 | 1.306527 |
| %RSD | 1277.106 | 37.84023 | 119.1903 | 100.6497 | 135.6360 | 22.64899 | 167.9605 |

| | | | | | | | |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.121040 | 1.682918 | .5906048 | 5.230037 | -3.03096 | -.559851 | -.382381 |
| #2 | -2.89420 | .8931480 | .3563607 | 4.953150 | .3905061 | -.783345 | .5229251 |
| #3 | .1791334 | .9389002 | 3.586709 | -.519099 | -1.14962 | -.890320 | 2.193089 |

| | | | | | | | |
|--------|----------|---------|---------|---------|---------|----------|----------|
| ERRORS | QC PASS | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC PASS | QC PASS |
| VALUE | .0000000 | | | | | .0000000 | .0000000 |
| RANGE | 10.00000 | | | | | 100.0000 | 50.00000 |

| | | | |
|-------|----------|----------|----------|
| ELEM | MO2020 | TI3349 | Y_3710 |
| UNITS | UG/L | UG/L | PPM |
| AVGE | 3.489805 | .4537187 | 2713.200 |
| SDEV | 1.776408 | .0557926 | 16.398 |
| %RSD | 50.90277 | 12.29673 | .6043753 |

| | | | |
|----|----------|----------|----------|
| #1 | 4.742716 | .3976327 | 2710.267 |
| #2 | 4.269865 | .5092132 | 2698.467 |
| #3 | 1.456835 | .4543102 | 2730.867 |

| | | | |
|--------|----------|----------|---------|
| ERRORS | QC PASS | QC PASS | NOCHECK |
| VALUE | .0000000 | .0000000 | |
| RANGE | 5.000000 | 40.00000 | |

5. Digestion and Distillation Logs

Logs shall be submitted in the following order: digestion logs for ICP, flame AA (if used), furnace AA (if used), and mercury preparations, followed by a copy of the distillation log for cyanide.

Metals Method: ILM04.1

Prepared by: ILM04.1 / 245.1-AM

Client Sample ID: ODD / MSB

ComputChem, a Division of Liberty Analytical Corp.
METALS/MERCURY PREPARATION LOG
Yellow Water

Date Prepared: 5/16/07

Batch No.: 9031330

| COMP/CHEM NUMBER | CLIENT SAMPLE ID | SAMPLE TYPE | ICP Initial mL | ICP Final (mL) | HG Initial mL | HG Final (mL) | *Description Before | *Description After ICP | pH |
|----------------------------------|------------------|-------------|----------------|----------------|---------------|---------------|---------------------|------------------------|-----|
| 0903084-01 | MM-3 | SAMPLE | 50 | 50 | | | CS / CL | CS / CL | ~2 |
| 0903084-02 | MM-2 | SAMPLE | 50 | | | | CS / CL | CS / CL | ~2 |
| 0903084-03 | MM-8 | SAMPLE | 50 | | | | BR / CL | BR / CL | ~2 |
| 0903084-04 | MM-9 | SAMPLE | 50 | | | | CS / CL | CS / AL | ~2 |
| 0903084-05 | MM-12 | SAMPLE | 50 | | | | CS / CL | CS / CL | ~2 |
| 0903084-06 | MM-17 | SAMPLE | 50 | | | | CS / CL | CS / CL | ~2 |
| 9031330-BLK1 | PBW | MB | 50 | | | | CS / CL | CS / CL | N/A |
| 9031330-BS1 | LCSW | LCS | 50 | | | | CS / CL | CS / CL | N/A |
| 9031330-DUP1 | MM-3D | DUP | 50 | | | | CS / CL | CS / CL | ~2 |
| 9031330-MS1 | MM-3S | MS | 50 | | | | CS / CL | CS / CL | ~2 |
| Mercury Standards and QC | | | | | | | | | |
| S0, S0.2, S0.5, S1, S5, S10 | | | | | | | | | |
| ICV, ICB, CRI, CCV, CCB | | | | | | | | | |
| Hot Block Temp In: | | | 95° | | | | | | |
| Hot Block Temp Out: | | | 95° | | | | | | |
| Time Hg in water bath: | | | | | | | | | |
| Time Hg out water bath: | | | | | | | | | |
| Water Bath Temp In: | | | | | | | | | |
| Water Bath Temp Out: | | | | | | | | | |
| Reviewed by: <i>N</i> | | | | | | | | | |
| Date: 032407 | | | | | | | | | |
| Sample Spikes(S) Ref: | | | | | | | | | |
| ICAP: 0.5ml ILM05.3 MATRIX SPIKE | | | | | | | | | |
| Ref #: 1MA-186.7 | | | | | | | | | |
| HG: 1.0ml 100ppb Hg | | | | | | | | | |
| Ref: <i>0307</i> | | | | | | | | | |
| LCS Ref: <i>0325</i> | | | | | | | | | |
| ICAP: 5.0ml ICV-1 (100ppb) | | | | | | | | | |
| Ref #: 1MA-187, <i>0325</i> | | | | | | | | | |

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black, GY=grey

F=fine M=medium C=coarse CL=clear, CY=cloudy, OP=opaque

The presence of the Chemist/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist/analyst's initials and the initials of the lab supervisor and a QA department representative signifying approval of the deviation.

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out'

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3
 COMPUICHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

Case/SDG: 0903084

| REAGENTS | REF# ¹ | MANUFACTURER | LOT# | EXPIRATION DATE |
|--|-------------------|--------------|---------|-----------------|
| SULFURIC ACID (H ₂ SO ₄) | 1m2-186-18 | CALEDON | 67048 | 10/11 |
| NITRIC ACID (HNO ₃) | 1m2-187-7 | JT BAKER | G44029 | 12/12 |
| POTASSIUM PERMANGANATE (KMnO ₄) | 1m2-186-4 | JT BAKER | G10663 | 07/11 |
| HYDROCHLORIC ACID (HCL) | 1m2-186-25 | CALEDON | 68273 | 12/11 |
| POTASSIUM PERSULFATE (K ₂ S ₂ O ₈) | 1m2-184-10 | CALEDON | 64278 | 11/10 |
| HYDROGEN PEROXIDE (H ₂ O ₂) | 1m2-186-8 | CALEDON | 65827 | 08/11 |
| STANDARDS | | | | |
| XCL 20R | 1m2-186-12 | HIGH PURITY | 0825902 | 09/22/09 |
| XCL LCS 10XR | 8K21001 | HIGH PURITY | 0832331 | 11/21/09 |
| ERA PPT (540) | 1m2-187-4 | ERA | 540 | 03/03/10 |
| EPA LCS (0405) | 1m2-184-27 | EPA | 0405 | 11/25/09 |
| ICV-1 (0307) | 1m2-187-5 | EPA | 0307 | 02/16/10 |
| ILM05.3 MATRIX SPIKE | 1m2-186-7 | HIGH PURITY | 0821413 | 08/04/09 |
| SILVER (Ag) 1000ppm | 1m2-183-14 | HIGH PURITY | 0719407 | 01/27/09 |
| TCLP 500 | 1m2-186-27 | HIGH PURITY | 0835022 | 12/18/09 |
| ARSENIC (As) 1000ppm | 7m1-39-21 | HIGH PURITY | 0731224 | 11/11/09 |
| MERCURY (Hg) 20ppm | 1m2-186-15 | HIGH PURITY | 0826123 | 09/19/09 |
| ICV-5 (0508) Hg | 1m2-186-22 | EPA | 0508 | 11/20/09 |

¹Ref#-Logbook ID, Page number, and item number from Materials Receipt Log
²Standard Lot Number consist of standard ID, date prepared, and initials of preparer
BORON (B) 1000 ppm 7ml-41-25 HIGH PURITY 0808103 6/15/10

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 3-16-09
 ENTERED BY: D. Dickens DATE: 3-16-09

REVIEWED BY: [Signature] DATE: 03/16/09

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

| STANDARD LOT NUMBER ² | PREPARATION INSTRUCTIONS |
|--|--|
| Hg 100ppb- 03-16-09 - NB | Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO ₃ Baker intra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water (PREPARE DAILY) |
| K ₂ S ₂ O ₈ - 03-11-09 - NB Potassium Persulfate | Place in a 1000mL Erlenmeyer flask: 50.0g of K ₂ S ₂ O ₈ Baker intra-analyzed Trace Metals grade or equivalent Dilute to 1000mL with reagent water. Transfer to a re-pipetor bottle (PREPARE AS NEEDED) |
| KmnO ₄ . 03-11-09 - NB Potassium Permanganate | Place in a 2000mL volumetric flask: 100.0g of KmnO ₄ Baker intra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water (PREPARE AS NEEDED) |
| HNO ₃ - 03-12-09 - DD Nitric Acid | Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO ₃ Baker intra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water (PREPARE AS NEEDED) |
| HCl- 03-12-09 - DD Hydrochloric Acid | Place in a 500mL volumetric flask: 200mL of Deionized water 250mL of concentrated HCl Baker intra-analyzed Trace Metals grade or equivalent Dilute to 500mL with reagent water (PREPARE AS NEEDED) |

¹ Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
² Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 3-16-09

ENTERED BY: D. Dickens DATE: 3-16-09

REVIEWED BY: [Signature] DATE: 03/16/09

B 10 ppm 031109 NB Added 0.5 ml of 1000 ppm Boron stock standard
 to 50 ml. of reagent water
 D.D. 3-16-09

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

| STANDARD LOT NUMBER ² | PREPARATION INSTRUCTIONS | Resultant Analyte Concentration |
|----------------------------------|--|---------------------------------|
| ICV-5-03-16-09-NB | Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions. | 4.1µg/L |
| S0/ICB/CCB-03-16-09-NB | Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions | 0.0µg/L |
| S0.2/CRA/CRI-03-16-09-NB | Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions | 0.2µg/L |
| S0.5-03-16-09-NB | Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions | 0.5µg/L |
| S1.0-03-16-09-NB | Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions | 1.0µg/L |
| S5.0/CCV-03-16-09-NB | Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions | 5.0µg/L |
| S10.0-03-16-09-NB | Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions | 10.0µg/L |

¹Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
²Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 3-16-09

ENTERED BY: D. Dickens DATE: 3-16-09

REVIEWED BY: [Signature] DATE: 03/16/09

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

D. Sample Traffic Reports/ SDG Cover Sheet

CHAIN OF CUSTODY RECORD

Laboratory: ComputChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (800) 833 5097 Fax (919) 379-4050 Attn: Cally Dover

Client: Watauga County, NC
 Attn: Mr. J.V. Poler
 Address: 842 West King Street/Courthouse, Suite 1
 Boone, NC 28607
 Phone: (704) 266-8003
 Fax: 0

Consultant: Draper Aden Associates
 Attn: Janet C. Frasier
 Address: 2206 South Main Street
 Blacksburg, Virginia 24060
 Phone: (540) 552-0444
 Fax: (540) 552-0291

Sample Site: Watauga County Landfill
 Location: Watauga County, NC
 Event: March 2009 Semiannual Assess. Monitoring Event
 DAA JN: 6520-99
 Lab JN:

Project Specific (PS) of Batch (B) QC: Yes No
 Sample Collection for Project Complete? (See Note 1) Yes No
 Carrier: UPS
 Tracking Number: 57768823893

Box 1: Matrix
 SW Surface Water T Trip Blank
 GW Groundwater E Equipment Blank
 L Leachate P Product
 S Soil O Other

Box 2: Preservative
 A HCl
 B HNO₃
 C H₂SO₄
 D Na₂S₂O₈

Box 3: Filtered/Unfiltered
 F Filtered
 U Unfiltered

Box 4: Sample Type
 G Grab
 C Composite

Invoice
 Copy to Consultant: Yes No
 Bill: Clear Container
 Preserved and shipped on ice: Yes No

| | | | | | | | | | | | |
|-------------------------------|--------|-----------|--|--|--|--|--|--|--|--|--|
| Box 3 - Filtered/Unfiltered | U | G | | | | | | | | | |
| Box 2 - Preservative | A | B | | | | | | | | | |
| Box 5 - Sample Container Type | 3-dm V | 1-500ml P | | | | | | | | | |

| Sample ID | Date: 2009 | Time | Box 1: Matrix | Number of Bottles | 8260B | CLP METALS ILMO 4.1 | | | | | | |
|------------|------------|------|---------------|-------------------|-------|---------------------|--|--|--|--|--|------------|
| MW-2 | 03/12 | 1315 | GW | 4 | X | X | | | | | | 0903084-02 |
| MW-3 | 03/12 | 1330 | GW | 4 | X | X | | | | | | 0903084-01 |
| MW-3ms | 03/12 | 1320 | GW | 4 | X | X | | | | | | |
| MW-3msd | 03/12 | 1330 | GW | 4 | X | X | | | | | | |
| MW-8 | 03/12 | 1240 | GW | 4 | X | X | | | | | | 0903084-03 |
| MW-9 | 03/12 | 1140 | GW | 4 | X | X | | | | | | -04 |
| MW-12 | 03/12 | 1245 | GW | 4 | X | X | | | | | | -05 |
| MW-17 | 03/12 | 1305 | GW | 4 | X | X | | | | | | -06 |
| Trip Blank | 03/12 | | | 1 | | | | | | | | 0903084-07 |

* Cally Dover -
 Note addition of
 A new target analytes to
 monitoring list - see p. 5/6.
 JCF

No time provided by lab - 0903084-07

Client's Special Instructions: Level 4 w/ EDD & PDF
 Received by lab in Good Condition Yes No Custody Seal Intact Yes No Temperature upon arrival 08°C Received on ice Yes No

| | | | | | | |
|---|----------------|---|----------------|---------------------------------|-------|--|
| Sampler Name/Signature: Chris Branscome | Date: 03/11/09 | #1 Relinquished by (Signature): Chris Branscome | Date: 03/12/09 | #2 Relinquished by (Signature): | Date: | Sample Storage Time Requested: 30 DYS ORGAS MTHS INORG |
| Sampler Name/Signature: Chris Branscome | Date: 0700 | Company Name: Draper Aden Associates | Date: 03/12/09 | Company Name: | Date: | |
| Sampler Name/Signature: Dale Slaughter | Date: 3/11/09 | #1 Received by (Signature): Dale Slaughter | Date: 03/13/09 | #2 Received by (Signature): | Date: | |
| Sampler Name/Signature: Dale Slaughter | Date: 0700 | Company Name: ComputChem | Date: 0945 | Company Name: | Date: | |

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CHAIN OF CUSTODY RECORD

Laboratory: CompuChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (919) 833 5097 Fax (919) 379-4050 Attn: Cathy Dover

Client: Watauga County, NC
 Attn: Mr. J.V. Polter
 Address: 842 West King Street/Courthouse, Suite 1
 Boone, NC 28607
 Phone: (704) 265-8003
 Fax: 0

Consultant: Draper Aden Associates
 Attn: Janet C. Frazier
 Address: 2206 South Main Street
 Blacksburg, Virginia 24060
 Phone: (540) 552-0444
 Fax: (540) 552-0291

Sample Site: Watauga County Landfill
 Location: Watauga County, NC
 Event: March 2008 Semiannual Assess. Monitoring Event
 DAA JN:
 Lab JN:

Project Specific (PS) of Batch (B) QC: Yes No
 Sample Collection for Project Complete? (See Note 1) Yes No

Carrier: UPS
 Tracking Number: 1T11688233893
 Invoice: Yes No
 Copy to Consultant: Yes No
 Bill: Direct Consultant Yes No
 Preserved and shipped on ice: Yes No

Box 1: Matrix
 SW Surface Water
 GW Groundwater
 L Leachate
 S Soil

Box 2: Preservative
 A HCL
 B HNO₃
 C H₂SO₄
 D Na₂S₂O₃

Box 3: Filtered/Unfiltered
 F Filtered
 U Unfiltered

Box 4: Sample Type
 G Grab
 C Composite

Box 5: Sample Container Type
 P Plastic
 AG Amber Glass
 CG Clear Glass

Box 4 - Sample Type
 Box 3 - Filtered/Unfiltered
 Required pH of Sample

Box 2 - Preservative
 Box 5 - Sample Container Type

GENERAL NOTES: Level 4 deliverables w/ EDD & PDF. Note addition of 4 analytes to trace analyte list.

| Sample ID | Date: 2008 | Time | Box 1: Matrix | Number of Bottles | CLP VOLATILES OLMO 4.3 | 0903085-01 | TRIP BLANK | 0903085-07 |
|-----------|------------|------|---------------|-------------------|------------------------|------------|------------|------------|
| S-1 | 03/12 | 0915 | SW | 3 | X | | | |
| S-2 | 03/12 | 0935 | SW | 3 | X | | | |
| S-3 | 03/12 | 0900 | SW | 3 | X | | | |
| S-4 | 03/12 | 1000 | SW | 3 | X | | | |
| S-5 | 03/12 | 0940 | SW | 3 | X | | | |
| S-6 | 03/12 | 1020 | SW | 3 | X | | | |

Client's Special Instructions: Level 4 deliverables w/ EDD & PDF.

Received by lab in Good Condition Yes No Custody Seal Intact Yes No Temperature upon arrival Yes No Received on ice Yes No

Sampler Name: Chris Barbscme
 Date: 3/11/09
 Company: Draper Aden Associates
 Signature: Dale Slaughter
 Date: 3/11/09
 Company: CompuChem
 Signature: Dale Slaughter
 Date: 0700
 Time: 0700

Sample Storage Time Requested: 30 DYS ORG/6 MTHS INORG

21

2/24/09
 2/24/09

Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

ANALYTICAL METHOD: 8260B/5030B – 25mL Purge
TYPE METHOD: GCMS
CLASS: VOLATILE

Run For All Monitoring Wells & Trip Blank:

| No. | ANALYTE | CAS RN |
|-----|---|------------|
| 1. | Acetone | 67-64-1 |
| 2. | Acetonitrile (methyl cyanide) | 75-05-8 |
| 3. | Acrolein | 107-02-8 |
| 4. | Acrylonitrile | 107-13-1 |
| 5. | Allyl chloride | 107-05-1 |
| 6. | Benzene | 71-43-2 |
| 7. | Bromochloromethane | 74-97-5 |
| 8. | Bromodichloromethane | 75-27-4 |
| 9. | Bromoform (tribromomethane) | 75-25-2 |
| 10. | Bromomethane; (Methyl bromide) | 74-83-9 |
| 11. | 2-butanone (methyl ethyl ketone - MEK) | 78-93-3 |
| 12. | Carbon disulfide | 75-15-0 |
| 13. | Carbon tetrachloride | 56-23-5 |
| 14. | Chlorobenzene | 108-90-7 |
| 15. | Chloroethane (ethyl chloride) | 75-00-3 |
| 16. | Chloroform (trichloromethane) | 67-66-3 |
| 17. | chloromethane ; (Methyl chloride) | 74-87-3 |
| 18. | Chloroprene | 126-99-8 |
| 19. | Dibromochloromethane | 124-48-1 |
| 20. | dibromomethane, (Methylene bromide) | 74-95-3 |
| 21. | 1,2-dichlorobenzene; (o-dichlorobenzene) | 95-50-1 |
| 22. | 1,3-dichlorobenzene, (m-dichlorobenzene) | 541-73-1 |
| 23. | 1,4-dichlorobenzene; (p-dichlorobenzene) | 106-46-7 |
| 24. | trans-1,4-dichloro-2-butene | 110-57-6 |
| 25. | Dichlorodifluoromethane | 75-71-8 |
| 26. | 1,1-dichloroethane | 75-34-3 |
| 27. | 1,2-dichloroethane | 107-06-2 |
| 28. | 1,1-dichloroethene (vinylidene chloride) | 75-35-4 |
| 29. | cis-1,2-dichloroethene | 156-59-2 |
| 30. | trans-1,2-dichloroethene | 156-60-5 |
| 31. | 1,2-dichloropropane | 78-87-5 |
| 32. | 1,3-dichloropropane | 142-28-9 |
| 33. | 2,2-dichloropropane | 594-20-7 |
| 34. | 1,1-dichloropropene | 563-58-6 |
| 35. | cis-1,3-dichloropropene | 10061-01-5 |
| 36. | trans-1,3-dichloropropene | 10061-02-6 |
| 37. | Ethylbenzene | 100-41-4 |
| 38. | Ethyl methacrylate | 97-63-2 |
| 39. | Hexachlorobutadiene | 87-68-3 |
| 40. | 2-hexanone (methyl butyl ketone - MBK) | 591-78-6 |
| 41. | iodomethane; (Methyl iodide) | 74-88-4 |
| 42. | Isobutyl alcohol | 78-83-1 |
| 43. | Methacrylonitrile | 126-98-7 |
| 44. | Methyl methacrylate | 80-62-6 |
| 45. | 4-methyl-2-pentanone (methyl isobutyl ketone) | 108-10-1 |
| 46. | Naphthalene | 91-20-3 |
| 47. | Propionitrile | 107-12-0 |
| 48. | Styrene (phenylethene) | 100-42-5 |
| 49. | 1,1,1,2-tetrachloroethane | 630-20-6 |

KFC - 2/19/2009

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Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

| | |
|---|-----------|
| 51. Tetrachloroethene | 127-18-4 |
| 52. Toluene (methyl benzene) | 108-88-3 |
| 53. 1,2,4-trichlorobenzene | 120-82-1 |
| 54. 1,1,1-trichloroethane (methyl chloroform) | 71-55-6 |
| 55. 1,1,2-trichloroethane | 79-00-5 |
| 56. Trichloroethene | 79-01-6 |
| 57. Trichlorofluoromethane (CFC-11) | 75-69-4 |
| 58. 1,2,3-trichloropropane | 96-18-4 |
| 59. Vinyl acetate | 108-05-4 |
| 60. Xylenes (total) | 1330-20-7 |

ADDITIONAL ANALYTES FOR 8260B

| | | |
|----|--------------------|---------|
| 61 | methylene chloride | 75-09-2 |
| 62 | Vinyl chloride | 75-01-4 |

KFC - 2/19/2009

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AKG

Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

ANALYTICAL METHODS: CLP OLMO 4.3
TYPE METHOD: CLP
CLASS: VOLATILE

Run for Surface Locations: S-1, S-2, S-3, S-4, S-5 & S-6:

| <u>No.</u> | <u>PARAMETER</u> | <u>CAS RN</u> |
|------------|--|---------------|
| 1 | Benzene | 71-43-2 |
| 2 | Chloroethane (ethyl chloride) | 75-00-3 |
| 3 | Dichlorodifluoromethane | 75-71-8 |
| 4 | 1,1-dichloroethane | 75-34-3 |
| 5 | 1,1-dichloroethylene (vinylidene chloride) | 75-35-4 |
| 6 | cis-1,2-dichloroethylene | 156-59-2 |
| 7 | trans-1,2-dichloroethylene | 156-60-5 |
| 8 | Tetrachloroethylene | 127-18-4 |
| 9 | Trichloroethylene | 79-01-6 |
| 10 | Methylene chloride | 75-09-2 |
| 11 | Vinyl chloride | 75-01-4 |
| 12 | 1,1,1-trichloroethane | 71-55-6 |
| 13 | Chlorobenzene | 108-90-7 |
| 14 | 1,4 - dichlorobenzene | 106-46-7 |
| 15 | 1,2 - dichloroethane | 107-06-2 |
| 16 | 1,2 - dichloropropane | 78-87-5 |

*NEW
CLP
2/29/09*

KFC - 2/19/2009

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KFC

Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

ANALYTICAL METHOD: CLP ILMO 4.1
TYPE METHOD: CLP
CLASS: TOTAL METALS

Run for all Monitoring Wells

| <u>No.</u> | <u>PARAMETER</u> | <u>METHOD</u> | <u>CAS RN</u> |
|------------|------------------|---------------|---------------|
| 1 | Barium | 6010 | 7440-39-3 |
| 2 | Iron | 6010 | 7439-89-6 |
| 3 | Chromium | 6010 | 7440-47-3 |
| 4 | Cobalt | 6020 | 7440-48-4 |
| 5 | Nickel | 6010 | 7440-02-0 |
| 6 | Vanadium | 6010 | 7440-62-2 |

KFC - 2/19/2009

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5/9

Ken Coddington

From: Jeff Smith
Sent: Wednesday, February 18, 2009 10:47 AM
To: Ken Coddington
Subject: RE: Watauga Co. LF Sample Kit Order

- This event is scheduled for March. It should be exactly like last March (i.e., the smaller core monitoring well **subset**, and metals),

- except only sample the two business wells (one no longer in-use) and five residential wells (two potable use and three non-potable use) like we sampled in September 2008.

- 2239 Hwy 421 South (well reference no. 1) potable use ✓
- 2347 Hwy 421 South (well reference no. 2) non-potable use only ✓
- BREMCO, 2491 Hwy 421 South (well reference no. 5) no longer in-use ✓
- Hollar and Greene Produce, 230 Cabbage Row (well reference no. 6) ✓
- 2711 Hwy 421 South (well reference no. 15) non-potable use only ✓
- 2737 Hwy 421 South (well reference no. 16) non-potable use only ✓
- 142 Green Briar Lane (well reference no. 21) potable use. ✓

Last March we sampled eighteen residential wells south of the southern saddle, we are only sampling one this time (142 Green Briar Lane).

JEFF SMITH
PROJECT GEOLOGIST
Draper Aden Associates
Engineering - Surveying - Environmental Services
Celebrating 35 Years of Service
2206 SOUTH MAIN STREET
BLACKSBURG VIRGINIA
phone 540-552-0444
fax 540-552-0291
<http://www.daa.com>

From: Ken Coddington
Sent: Tuesday, February 17, 2009 8:58 AM
To: Jeff Smith
Subject: Watauga Co. LF Sample Kit Order

Jeff,

Never too early to begin prep for the next semiannual event. Would you mind sending an e-mail with any changes / updates so that I may begin putting this kit together?

Thanks,
Ken

0903084

COMPUCHEM

| | |
|---|--|
| Client: DRAPER | Project Manager: Cathy Dover |
| Project: WATAUGA COUNTY LANDFILL 6520-39 | Project Number: WATAUGA COUNTY LANDFILL 6520-39 |
| SDG: 0903084 CASE: | Status: Batched |

Report To:
 DRAPER
 JANET FRAZIER
 2206 SOUTH MAIN STREET
 BLACKSBURG, VA 24060
 Phone: (540)552-0044
 Fax: -

Invoice To:
 WATAUGA COUNTY, NC
 MR. J.V. POLTER
 842 WESTKING STREET/COURTHOUSE, SUITE 1
 BOONE, NC 28607
 Phone :-
 Fax: -

Date Due: 04/02/2009 00:00 (20 day TAT)

Received By: Cathy Dover

Date Received: 03/13/2009 12:21

Logged In By: Cathy Dover

Date Logged In: 03/13/2009 12:21

| | | | | |
|---|-------------|-------------------------|-----------------------------|------------------------------|
| J & B Flags?: YES | TICS?:EPA-I | Spike Level: FULL Spike | Deliverable: Style 9 | EDD Format(36) DRAPER ACCESS |
| USE 0903084-01 (MW-3) FOR QC VOC 8260B 25 ML LIST=PPS897O.SUB*ILM04.1 MTL=Ba,Fe,Cr,Co,Ni & V*STYLE 9; RPT. Js, FULL SPIKE | | | | |

| Analysis | Due | TAT | Expires | Received | Comments |
|--|------------------|-----|------------------|------------------|------------|
| 0903084-01 MW-3 [Water] Sampled 03/12/2009 13:20 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 13:20 | 03/13/2009 09:45 | USE FOR QC |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:20 | 03/13/2009 09:45 | |
| 0903084-02 MW-2 [Water] Sampled 03/12/2009 12:15 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 12:15 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 12:15 | 03/13/2009 09:45 | |
| 0903084-03 MW-8 [Water] Sampled 03/12/2009 12:40 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 12:40 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 12:40 | 03/13/2009 09:45 | |
| 0903084-04 MW-9 [Water] Sampled 03/12/2009 11:40 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 11:40 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 11:40 | 03/13/2009 09:45 | |
| 0903084-05 MW-12 [Water] Sampled 03/12/2009 13:45 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 13:45 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:45 | 03/13/2009 09:45 | |
| 0903084-06 MW-17 [Water] Sampled 03/12/2009 13:05 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 13:05 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:05 | 03/13/2009 09:45 | |

WORK ORDER

Printed: 3/24/2009 1:05:42PM

0903084

COMPUCHEM

| | |
|---|--|
| Client: DRAPER | Project Manager: Cathy Dover |
| Project: WATAUGA COUNTY LANDFILL 6520-39 | Project Number: WATAUGA COUNTY LANDFILL 6520-39 |
| SDG: 0903084 CASE: | Status: Batched |

| Analysis | Due | TAT | Expires | Comments |
|--|------------------|-----|------------------|------------------|
| 0903084-07 TRIP BLANK [Water] Sampled 03/12/2009 13:05 Eastern | | | | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:05 | 03/13/2009 09:45 |

| |
|--|
| |
|--|

INTERNAL DIGESTION COC

9031330

COMPUCHEM

Printed: 3/13/2009 4:04:32PM

Matrix: Water

Prepared using: METALS - ILM04.1

| Lab Number | Client ID | Sample Type | |
|--------------|-----------|--------------|--|
| 0903084-01 | MW-3 | Sample | |
| 0903084-02 | MW-2 | Sample | |
| 0903084-03 | MW-8 | Sample | |
| 0903084-04 | MW-9 | Sample | |
| 0903084-05 | MW-12 | Sample | |
| 0903084-06 | MW-17 | Sample | |
| 9031330-BLK1 | PBW | Blank | |
| 9031330-BS1 | LCSW | LCS | |
| 9031330-DUP1 | MW-3D | * Duplicate | |
| 9031330-MS1 | MW-3S | Matrix Spike | |

U. Bern

Relinquished By

* ICP Storage

Relinquished By

E. Morris

Relinquished By

Relinquished By

3/16/09

Date

3-23-09

Date

3-23-09

Date

Date

JCP st

Received By

E. Morris

Received By

ICP Storage

Received By

Received By

3/16/09

Date

3-23-09

Date

3-23-09

Date

Date

3/9/2009

Metals Internal Chain of Custody Sheet

Matrix Water

Batch: 9031330

Status: Batched

Analysis: ILM04.1 METALS

| Lab Id | Client Id | Received | Container | Extraction | Due_Date |
|--------------|-----------|----------|-----------------------|------------|------------|
| 0903084-01 J | MW-3 | 03/13/09 | 3n_500mL Plastic, HNC | ILM04.1 | 4/2/2009 4 |
| 0903084-02 D | MW-2 | 03/13/09 | 3n_500mL Plastic, HNC | ILM04.1 | 4/2/2009 4 |
| 0903084-03 D | MW-8 | 03/13/09 | 3n_500mL Plastic, HNC | ILM04.1 | 4/2/2009 4 |
| 0903084-04 D | MW-9 | 03/13/09 | 3n_500mL Plastic, HNC | ILM04.1 | 4/2/2009 4 |
| 0903084-05 D | MW-12 | 03/13/09 | 3n_500mL Plastic, HNC | ILM04.1 | 4/2/2009 4 |
| 0903084-06 D | MW-17 | 03/13/09 | 3n_500mL Plastic, HNC | ILM04.1 | 4/2/2009 4 |

Ambient

Relinquished By

3-16-09 0820

Date

J. Redig

Received By

3-16-09

Date

J. Redig

Relinquished By

3-16-09 0840

Date

[Signature]

Received By

3/16/09

Date

[Signature]

Relinquished By

3/16/09

Date

COOLW

Received By

Date

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

SECTION 3.1

Inorganics Data Validation Forms



Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

CLP INORGANIC DATA REVIEW SUMMARY

Draper Aden Associates performed a limited review of the analytical results for six inorganic target parameters: barium, chromium, cobalt, iron, nickel and vanadium analyzed per USEPA Contract Laboratory Program (CLP) Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP) Method ILM04.1. Draper Aden Associates collected samples for this monitoring event on March 11-12, 2009. The samples included in the sample delivery group (SDG) are MW-2, MW-3, MW-8, MW-9, MW-12 and MW-17. Target metals were analyzed for their total concentrations. Sample MW-3 was designated as the quality control (QC) sample for duplicate and matrix spike analyses. The following information and attached table summarize the inorganic data review results.

CompuChem Environmental (CompuChem), a Division of Liberty Analytical Corporation of Cary, North Carolina, performed the inorganic analyses. The analyses were performed in accordance with USEPA CLP Statement of Work ILM04.1.

On behalf of Watauga County, CompuChem submitted results to Draper Aden Associates in a final certificate of analysis which included sample analytical results as well as relevant documentation to verify and validate the results. The results of this data validation presented here are based upon a review of QA/QC information including holding times, preservation procedures and standards, spike analysis on sample matrix, blank samples analyses (method and calibration blanks), duplicate sample results, interference check sample results, laboratory control sample (LCS), serial dilution criteria, IDL/CRDL information. Review was performed on summary sheets provided by the laboratory, unless a notable discrepancy in the data package required additional review of the raw data. The completeness of this data package was verified. The data package included raw analytical data, chain of custody and preparation logs.

The original certificate of analysis was received March 27, 2009. CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met.

CLP-ICP SOW ILM04.1

The original certificate of analysis appeared complete in its presentation and the data were of acceptable quality. The certificate of analysis demonstrated the ability of the laboratory to achieve the reported contract required detection limit (CRDL) for each target parameter. CRDLs were equal to or less than the respective USEPA MCL drinking water standard and North Carolina groundwater quality standards, where applicable.

QC documentation criteria were met. Instrument calibration and calibration verification criteria were met. CRDL standards, blank samples, interference check samples, pre-digestion spike and sample duplicate, laboratory control sample and serial dilution samples were analyzed as

***Watauga County Landfill, Watauga County, NC
March 11-12, 2009 Groundwater Monitoring Event
Draper Aden Associates Job Number: 6520-39
Page 2 of 5***

required and quality control criteria were met except where noted below. Deviations from specific control limits and QA/QC controls that were identified during the data review process are summarized below.

Reported blank contamination included chromium in the calibration verification blanks (0.7-1.0 µg/l) and in the laboratory preparation blank (0.8 µg/l), iron in a calibration verification blank (25.1 µg/l) and in the laboratory preparation blank (49.5 µg/l), and nickel reported in a calibration verification blank (0.9 µg/l) and in the laboratory preparation blank (0.8 µg/l). Detected results for chromium and nickel less than the CRDL were attributed to laboratory contamination and were qualified as "U." Detected results for iron greater than the CRDL, but less than five times the blank concentration were qualified as "UA" to note that the CRDL was estimated due to this QC deficiency. For these sample results, the sample QL was adjusted to the sample concentration. This applied to iron reported in MW-9.

Sample results greater than the CRDL and unaffected by the above data validation process were recorded as reported by the laboratory. Sample results reported between the instrument detection limit (IDL) and CRDL were qualified as estimated and flagged "J."

INORGANIC DATA EVALUATION FOR CLP-ICP METHOD, ILM04.1

Sample ID: MW-2, MW-3, MW-8, MW-9, MW-12, MW-17
QC Samples: Lab blanks, Spikes (MW-3) and Duplicates (MW-3)
Laboratory: CompuChem Environmental Corporation, Cary, NC; SDG 0903084

Does Laboratory analyte list correspond to analyte list requested? yes no

Corresponds to Ba, Cr, Co, Fe, Ni, V

"√" denotes items reviewed. See Data Validation Summary for additional comments.

A. QC DOCUMENTATION CRITERIA:

- Specific IDLs for all target analytes (Quarterly)
- Specific CRDLs for all target analytes, except where noted below
- CRDL standard 70-130%, concentration 2 X CRDL, target analytes (except Al, Ba, Ca, Fe, Mg, Na or K not required)

B. TECHNICAL HOLDING TIME / PRESERVATION REQUIREMENTS:

- 6 month holding time
- Adjust pH <2 w/ HNO₃

C. INSTRUMENT CALIBRATION CRITERIA:

- 1 calibration blank and at least 1 standard

D. INITIAL / CONTINUING CALIBRATION VERIFICATION CRITERIA:

- 10 sample frequency
- Use of calibration blank and check standard
- %R within 90-110% range

E. BLANK ANALYSES CRITERIA:

- N/A Trip Blank (check only if analyzed)
- N/A Equipment Blank (check only if analyzed)
- Method/Other Lab Blanks (check only if analyzed)
- Interference free
- CCB 10 sample frequency

F. INTERFERENCE CHECK SAMPLES (ICS) CRITERIA:

- At beginning and end of batch (80-120%)
- Verification of ICP interelement correction factors (Annual)

G. DUPLICATE SAMPLE CRITERIA:

- One duplicate per batch of samples
- DUP:** %RPD \pm 20% for sample values greater than 5 X CRDL

√ {sample ± CRDL} when values are less than 5 X CRDL

H. SPIKED SAMPLE CRITERIA:

√ %R within 75-125% range

I. LCS RESULTS CRITERIA:

√ 80-120%, all target analytes

J. SERIAL DILUTION CRITERIA:

√ <10% Difference (applicable when concentration >50X DL)

K. SAMPLE RESULTS CRITERIA:

√ Results reported within ICP linear concentration range

Draper Aden Associates conducted a limited data validation of the above noted data set using summary tables provided by the analyzing laboratory. Data evaluation was conducted using CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004). Validation of this data set was limited to review of the items detailed in this report.

LIMITATIONS:

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Conclusions presented are based upon a review of available information, the results of our field studies, and/or professional judgment. To the best of our knowledge, information provided by others is true and accurate, unless otherwise noted.

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This Report has been prepared by:

Kathy Olsen
Kathy Olsen, Environmental Scientist
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, kolsen@daa.com, www.daa.com

4/18/09
Date:

This Report has been subjected to technical and quality review by:

Janet C. Frazier
Janet C. Frazier, Project Manager
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, jfrazier@daa.com, www.daa.com

4/24/09
Date:

Data Validation Report for Inorganics Fraction. Monitoring Event: 3/13/2009
Watauga County Landfill Facility ID 95-02



| Analyte | Sample ID | Laboratory Results (ug/L) | Validated Results (ug/L) | CRDL (ug/L) | Validation Notes | |
|--|---------------|---------------------------|--------------------------|-------------|---|----------------|
| Method: ILM04.1 | | | | | | |
| Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC | | | | | | |
| BARIUM | MW-2 | 224 | 224 | 200 | No action taken. | |
| | MW-3 | 168 | 168 | 200 | Result < CRDL. | |
| | MW-8 | 113 | 113 | 200 | Result < CRDL. | |
| | MW-9 | 594 | 594 | 200 | No action taken. | |
| | MW-12 | 326 | 326 | 200 | No action taken. | |
| | MW-17 | 510 | 510 | 200 | No action taken. | |
| | MW-2 | 2.6 | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). | |
| | MW-3 | 42.6 | 42.6 | 10 | No action taken. | |
| | MW-8 | 13.1 | 13.1 | 10 | No action taken. | |
| | MW-9 | 0.88 | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). | |
| COBALT | MW-12 | 0.8 | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). | |
| | MW-17 | 2.3 | U | 10 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blanks (0.8-1.0 ug/l). | |
| | MW-3 | 4.1 | 4.1 | 50 | Result < CRDL. | |
| | MW-8 | 3.6 | 3.6 | 50 | Result < CRDL. | |
| | MW-9 | 8.3 | 8.3 | 50 | Result < CRDL. | |
| | MW-12 | 1.7 | 1.7 | 50 | Result < CRDL. | |
| | MW-17 | 4.9 | 4.9 | 50 | Result < CRDL. | |
| | MW-2 | 440 | 440 | 100 | No action taken. | |
| | MW-3 | 6850 | 6850 | 100 | No action taken. | |
| | MW-8 | 5490 | 5490 | 100 | No action taken. | |
| IRON | MW-9 | 144 | U | 100 | Blank contamination in the prep blank (49.5 ug/l) and calibration blank (25.1 ug/l). Result < 5x blank contamination. CRDL adjusted to sample result concentration. | |
| | MW-17 | 948 | 948 | 100 | No action taken. | |
| | MW-2 | 3.5 | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). | |
| | MW-3 | 25.8 | 25.8 | 40 | Result < CRDL. | |
| | NICKEL | MW-2 | 25.8 | 25.8 | 40 | Result < CRDL. |
| | | MW-3 | 25.8 | 25.8 | 40 | Result < CRDL. |
| | | MW-8 | 25.8 | 25.8 | 40 | Result < CRDL. |
| | | MW-9 | 25.8 | 25.8 | 40 | Result < CRDL. |
| | | MW-12 | 25.8 | 25.8 | 40 | Result < CRDL. |
| | | MW-17 | 25.8 | 25.8 | 40 | Result < CRDL. |
| MW-2 | | 25.8 | 25.8 | 40 | Result < CRDL. | |
| MW-3 | | 25.8 | 25.8 | 40 | Result < CRDL. | |
| MW-8 | | 25.8 | 25.8 | 40 | Result < CRDL. | |
| MW-9 | | 25.8 | 25.8 | 40 | Result < CRDL. | |

Definitions: CRDL Denotes contract required detection limit. B Denotes result < CRDL, an estimated value (a laboratory data qualifier). R Denotes result is rejected.
 J Denotes result is estimated. Target analytes not listed above were not detected above detection limit and no data qualification was required.

Data Validation Report for Inorganics Fraction. Monitoring Event: 3/13/2009
Watauga County Landfill Facility ID 95-02



| Analyte | Sample ID | Laboratory Results (ug/L) | Validated Results (ug/L) | CRDL (ug/L) | Validation Notes |
|--|-----------|---------------------------|--------------------------|-------------|---|
| Method: ILM04.1 | | | | | |
| Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC | | | | | |
| NICKEL | MW-8 | 7.3 B | 7.3 J | 40 | Result < CRDL. |
| | MW-9 | 2.3 B | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). |
| | MW-12 | 4 B | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). |
| | MW-17 | 3.6 B | U | 40 | Result < CRDL. Blank contamination in the prep blank (0.8 ug/l) and calibration blank (0.9 ug/l). |
| VANADIUM | MW-2 | 2.1 B | 2.1 J | 50 | Result < CRDL. |
| | MW-3 | 14.6 B | 14.6 J | 50 | Result < CRDL. |
| | MW-8 | 13.3 B | 13.3 J | 50 | Result < CRDL. |
| | MW-9 | 0.64 B | 0.64 J | 50 | Result < CRDL. |
| | MW-12 | 0.89 B | 0.89 J | 50 | Result < CRDL. |
| | MW-17 | 2.1 B | 2.1 J | 50 | Result < CRDL. |

Definitions: CRDL Denotes contract required detection limit. B Denotes result < CRDL, an estimated value (a laboratory data qualifier). R Denotes result is rejected. J Denotes result is estimated. Target analytes not listed above were not detected above detection limit and no data qualification was required.



CompuChem
A Division Of
Liberty Analytical Corp.

Demonstration of Capability Certification Statement

Study Date: 2007

Laboratory Name: CompuChem, a division of Liberty Analytical Corporation

Laboratory Address: 501 Madison Avenue, Cary, NC 27513

Analyst Name/Employee ID#: **Timothy Do/2660**

Matrix: Aqueous and Solid

Method Number: 8260B

SOP No./Rev#: 1.3.2.2/R11

Analyte/Class of Analytes/Measured Parameters: Volatile organics

We, the undersigned, CERTIFY that:

1. The analyst identified above, using the cited test method, which is in use at this facility for the analyses of samples under the National Environmental Laboratory Accreditation Program, have met the Demonstration of Capability.
2. The test method was performed by the analyst identified on this certification.
3. A copy of the test method and the laboratory-specific SOPs are available for all personnel on-site.
4. The data associated with the demonstration capability are true, accurate, complete and self-explanatory.
5. All raw data (including a copy of this certification form) necessary to reconstruct and validate these analyses have been retained at the facility, and that the associated information is well organized and available for review by authorized assessors.

Kenneth Grzybowski, Supervisor Volatiles Lab
Technical Director's Name and Title


Signature

7-13-07
Date

Valgena Respass, QA Manager
Quality Assurance Officer's Name


Signature

7/13/07
Date

This certification form must be completed each time a demonstration of capability study is completed.

- (1) True: Consistent with supporting data.
 Accurate: Based on good laboratory practices consistent with sound scientific principles/practices.
 Complete: Includes the results of all supporting performance testing.
 Self-Explanatory: Data properly labeled and stored so that the results are clear and require no additional explanation.

TomothyDo:7/13/2007: VR
Analysis: IDOC

CompuChem
Analyst Capability

| Laboratory Name/North Carolina Certificate Number: CompuChem/79 | | | | | | | | | | | |
|---|-----------------|----------------|-----------------|----------------|-----------------|--------------|-------------|-------------|-----------------|----------|--------------|
| Analyst: Timothy Do/2660 | | | | | | | | | | | |
| Study Date: July 13 & July 17, 2007 | | | | | | | | | | | |
| Method: OLM04.3 water & soil; 8260B water & soil | | | | | | | | | | | |
| Instrument: 5975hprms91 | | | | | | | | | | | |
| Compound | TrueVal ug/L | VAJLCD ug/L | VAJLCSD ug/L | VBMLCS ug/L | VBMLCSD ug/L | Mean ug/L | Mean % R | SOP* % R | SD(n-1) ug/L | RSD % | SOP % RSD |
| Chloromethane | 50 | 53 | 56 | 52 | 53 | 54 | 107 | | 1.6 | 3 | 20.5 |
| Vinyl Chloride | 50 | 53 | 58 | 55 | 55 | 55 | 110 | | 1.9 | 3 | 20.5 |
| Bromomethane | 50 | 51 | 56 | 50 | 51 | 52 | 104 | | 2.7 | 5 | 20.5 |
| Chloroethane | 50 | 54 | 54 | 53 | 54 | 54 | 108 | | 0.3 | 1 | 20.5 |
| Vinyl acetate | 50 | 54 | 53 | 51 | 48 | 52 | 103 | | 2.8 | 5 | 20.5 |
| 1,1-Dichloroethene | 50 | 51 | 54 | 56 | 54 | 54 | 108 | 61-145 | 1.7 | 3 | 20.5 |
| Acetone | 50 | 43 | 33 | 63 | 42 | 46 | 91 | | 12.7 | 28 | 20.5 |
| Carbon Disulfide | 50 | 52 | 54 | 56 | 53 | 54 | 108 | | 1.6 | 3 | 20.5 |
| Methylene Chloride | 50 | 49 | 51 | 53 | 51 | 51 | 102 | | 1.5 | 3 | 20.5 |
| trans-1,2-Dichloroethene | 50 | 51 | 53 | 56 | 54 | 53 | 107 | | 2.2 | 4 | 20.5 |
| 1,1-Dichloroethane | 50 | 50 | 52 | 56 | 53 | 53 | 106 | | 2.6 | 5 | 20.5 |
| cis-1,2-Dichloroethene | 50 | 51 | 53 | 54 | 52 | 52 | 105 | | 1.3 | 2 | 20.5 |
| 2-Butanone | 50 | 45 | 40 | 59 | 44 | 47 | 93 | | 8.3 | 18 | 20.5 |
| Chloroform | 50 | 51 | 52 | 55 | 53 | 53 | 105 | | 1.9 | 4 | 20.5 |
| 1,1,1-Trichloroethane | 50 | 50 | 54 | 55 | 53 | 53 | 106 | | 1.9 | 4 | 20.5 |
| Carbon Tetrachloride | 50 | 50 | 53 | 55 | 54 | 53 | 107 | | 2.2 | 4 | 20.5 |
| Benzene | 50 | 49 | 51 | 52 | 51 | 51 | 102 | 76-127 | 1.6 | 3 | 20.5 |
| 1,2-Dichloroethane | 50 | 52 | 53 | 56 | 52 | 53 | 107 | | 1.9 | 4 | 20.5 |
| Trichloroethene | 50 | 50 | 52 | 53 | 51 | 51 | 103 | 71-120 | 1.2 | 2 | 20.5 |
| 1,2-Dichloropropane | 50 | 48 | 50 | 52 | 52 | 50 | 101 | | 1.8 | 4 | 20.5 |
| Bromodichloromethane | 50 | 49 | 52 | 53 | 51 | 51 | 103 | | 1.8 | 4 | 20.5 |
| cis-1,3-Dichloropropene | 50 | 48 | 52 | 51 | 49 | 50 | 100 | | 1.5 | 3 | 20.5 |
| 4-Methyl-2-Pentanone | 50 | 47 | 52 | 54 | 49 | 50 | 101 | | 3.0 | 6 | 20.5 |
| Toluene | 50 | 48 | 52 | 53 | 52 | 51 | 102 | 76-125 | 2.2 | 4 | 20.5 |
| trans-1,3-Dichloropropene | 50 | 48 | 52 | 53 | 51 | 51 | 102 | | 1.9 | 4 | 20.5 |
| 1,1,2-Trichloroethane | 50 | 49 | 51 | 52 | 50 | 51 | 101 | | 1.4 | 3 | 20.5 |
| Tetrachloroethene | 50 | 51 | 53 | 56 | 52 | 53 | 106 | | 2.1 | 4 | 20.5 |

CompuChem
Analyst Capability

| Laboratory Name/North Carolina Certificate Number: CompuChem/79 | | | | | | | | | | | | |
|---|-----------------|----------------|----------------|----------------|-----------------|--------------|-------------|-------------|-----------------|----------|--------------|--|
| Analyst: Timothy Do/2660 | | | | | | | | | | | | |
| Study Date: July 13 & July 17, 2007 | | | | | | | | | | | | |
| Method: OLM04.3 water & soil; 8260B water & soil | | | | | | | | | | | | |
| Instrument: 5975hpms91 | | | | | | | | | | | | |
| Compound | TrueVal ug/L | VAJLCD ug/L | VAJLCS ug/L | VBMLCS ug/L | VBMLCSD ug/L | Mean ug/L | Mean % R | SOP* % R | SD(n-1) ug/L | RSD % | SOP % RSD | |
| 2-Hexanone | 50 | 44 | 43 | 57 | 48 | 48 | 96 | | 6.4 | 13 | 20.5 | |
| Dibromochloromethane | 50 | 49 | 51 | 51 | 49 | 50 | 100 | | 1.4 | 3 | 20.5 | |
| Chlorobenzene | 50 | 48 | 50 | 53 | 51 | 50 | 101 | 75-130 | 2.2 | 4 | 20.5 | |
| Ethylbenzene | 50 | 48 | 51 | 54 | 52 | 51 | 103 | | 2.5 | 5 | 20.5 | |
| m,p-Xylene | 50 | 98 | 104 | 108 | 106 | 104 | 208 | | 4.6 | 4 | 20.5 | |
| o-Xylene | 50 | 49 | 52 | 54 | 52 | 52 | 104 | | 1.9 | 4 | 20.5 | |
| Styrene | 50 | 49 | 51 | 54 | 52 | 51 | 103 | | 1.9 | 4 | 20.5 | |
| Bromoform | 50 | 49 | 51 | 51 | 48 | 50 | 100 | | 1.8 | 4 | 20.5 | |
| 1,1,2,2-Tetrachloroethane | 50 | 48 | 51 | 52 | 49 | 50 | 100 | | 1.8 | 4 | 20.5 | |
| Xylene (Total) | 150 | 153 | 163 | 169 | 164 | 162 | 108 | | 6.4 | 4 | 20.5 | |

SECTION 3.2

Revisions to Original Data Set Inorganics



Draper Aden Associates

Engineering ♦ Surveying ♦ Environmental Services

Analyst Capability Study

| Laboratory Name/North Carolina Certificate Number: CompuChem79 | | | | | | | | | | | |
|--|-----------------------------|----------------|----------------|----------------|----------------|--------------|-------------|-------------------------|-----------------|--------------|----------|
| Prep. Analyst: | n.a. | # | n.a. | | | | | | | | |
| Analyst: | E Morris | # | 2721 | | | | | | | | |
| Date: | 3/10/2009 | | | | | | | | | | |
| Instrument: | P4 | | | | | | | | | | |
| Method: | ILM05.4, ILM04.1, and 6010B | | | | | | | | | | |
| Standard Reference: | ICV-1 031009-EAM | | | | | | | | | | |
| Parameter | True Value ug/L | Rep# 1 ug/L | Rep# 2 ug/L | Rep# 3 ug/L | Rep# 4 ug/L | Mean ug/L | Mean % R | SOP range % Recovery | SD(n-1) ug/L | SOP % RSD | RSD % |
| Aluminum | 2521 | 2480 | 2505 | 2502 | 2455 | 2485 | 98.6 | 80-120 | 23 | 20 | 0.9 |
| Antimony | 994 | 997 | 1005 | 1005 | 996 | 1001 | 100.7 | 80-120 | 5 | 20 | 0.5 |
| Arsenic | 999 | 995 | 1005 | 1002 | 993 | 999 | 100.0 | 80-120 | 6 | 20 | 0.6 |
| Barium | 497 | 508 | 509 | 510 | 504 | 508 | 102.1 | 80-120 | 3 | 20 | 0.5 |
| Beryllium | 495 | 502 | 505 | 505 | 500 | 503 | 101.6 | 80-120 | 2 | 20 | 0.5 |
| Calcium | 10026 | 9992 | 10048 | 10032 | 9964 | 10009 | 99.8 | 80-120 | 38 | 20 | 0.4 |
| Cadmium | 496 | 501 | 505 | 504 | 499 | 502 | 101.2 | 80-120 | 2 | 20 | 0.5 |
| Chromium | 490 | 496 | 499 | 498 | 494 | 497 | 101.4 | 80-120 | 2 | 20 | 0.4 |
| Cobalt | 499 | 503 | 508 | 506 | 502 | 505 | 101.2 | 80-120 | 2 | 20 | 0.5 |
| Copper | 492 | 492 | 495 | 494 | 491 | 493 | 100.2 | 80-120 | 2 | 20 | 0.4 |
| Iron | 5082 | 5010 | 5030 | 5006 | 4986 | 5008 | 98.5 | 80-120 | 18 | 20 | 0.4 |
| Lead | 1002 | 1011 | 1015 | 1010 | 1003 | 1010 | 100.8 | 80-120 | 5 | 20 | 0.5 |
| Magnesium | 6074 | 5850 | 5907 | 5874 | 5824 | 5864 | 96.5 | 80-120 | 36 | 20 | 0.6 |
| Manganese | 499 | 499 | 503 | 501 | 497 | 500 | 100.2 | 80-120 | 3 | 20 | 0.5 |
| Nickel | 503 | 505 | 508 | 506 | 502 | 505 | 100.4 | 80-120 | 3 | 20 | 0.5 |
| Potassium | 10021 | 10144 | 10226 | 10218 | 10063 | 10163 | 101.4 | 80-120 | 76 | 20 | 0.7 |
| Selenium | 1029 | 996 | 997 | 1002 | 993 | 997 | 96.9 | 80-120 | 4 | 20 | 0.4 |
| Silver | 501 | 495 | 497 | 496 | 496 | 496 | 98.9 | 80-120 | 1 | 20 | 0.2 |
| Sodium | 10097 | 9555 | 9730 | 9761 | 9511 | 9639 | 95.5 | 80-120 | 125 | 20 | 1.3 |
| Thallium | 1028 | 1013 | 1030 | 1024 | 1014 | 1020 | 99.3 | 80-120 | 8 | 20 | 0.8 |
| Vanadium | 501 | 502 | 505 | 507 | 500 | 503 | 100.5 | 80-120 | 3 | 20 | 0.7 |
| Zinc | 1025 | 1044 | 1046 | 1043 | 1039 | 1043 | 101.7 | 80-120 | 3 | 20 | 0.3 |
| Bismuth | 1100 | 1082 | 1094 | 1091 | 1079 | 1086 | 98.8 | 80-120 | 7 | 20 | 0.6 |
| Molybdenum | 1100 | 1102 | 1110 | 1108 | 1102 | 1106 | 100.5 | 80-120 | 4 | 20 | 0.4 |
| Tin | 1100 | 1109 | 1114 | 1112 | 1103 | 1110 | 100.9 | 80-120 | 5 | 20 | 0.4 |
| Titanium | 1100 | 1099 | 1109 | 1107 | 1096 | 1103 | 100.3 | 80-120 | 6 | 20 | 0.6 |



CompuChem

A Division Of

Liberty Analytical Corp.

3/26/2009

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

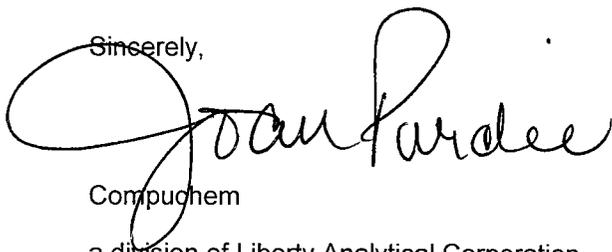
Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 0903084

Attn.: JANET FRAZIER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,



Joan Purdee

CompuChem

a division of Liberty Analytical Corporation

Attachment

| |
|--------------------------------|
| TOTAL NUMBER OF PAGES _____ |
|--------------------------------|

CompuChem, a division of Liberty Analytical

Client: DRAPER

Work: 0903084

Project WATAUGA COUNTY LANDFILL 6520-39

Sdg: 0903084

| Lab ID | Client ID | Matrix | Date Sampled | Date Received |
|------------|------------|--------|------------------|------------------|
| 0903084-01 | MW-3 | Water | 03/12/2009 13:20 | 03/13/2009 09:45 |
| 0903084-02 | MW-2 | Water | 03/12/2009 12:15 | 03/13/2009 09:45 |
| 0903084-03 | MW-8 | Water | 03/12/2009 12:40 | 03/13/2009 09:45 |
| 0903084-04 | MW-9 | Water | 03/12/2009 11:40 | 03/13/2009 09:45 |
| 0903084-05 | MW-12 | Water | 03/12/2009 13:45 | 03/13/2009 09:45 |
| 0903084-06 | MW-17 | Water | 03/12/2009 13:05 | 03/13/2009 09:45 |
| 0903084-07 | TRIP BLANK | Water | 03/12/2009 13:05 | 03/13/2009 09:45 |

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC/MS by SW-846

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

- A. SDG Narrative
- B. Tabulated target compound results (Form I)
Tentatively identified compounds (Form I, TIC)
In order by sample.
- C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low, Medium, or High)
- D. Spike results MS / MSD / LCS (Form III)
- E. Blank data (Form IV)
Tabulated blank results (Form I)
Tentatively identified compounds (Form I, TIC)
- F. Internal standard area response and retention time data (Form VIII)

LAB CODE : LIBRTY

METHOD: 8260B

CASE # : _____

SDG # : 0903084

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation

501 Madison Avenue

Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # 0903084

PROTOCOL: SW-846

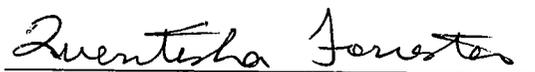
**SAMPLE IDENTIFICATIONS: MW-3, MW-2, MW-8, MW-9, MW-12,
MW-17 AND TRIP BLANK**

The 7 aqueous samples listed above were received intact, properly refrigerated between 0.8°C, with proper documentation, in sealed shipping containers, on March 12th, 2009. The samples were scheduled for the requested analyses of the volatile fraction. SW-846, 3rd Edition, Update 3, 8260B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for SDG 0903084 are included in the sample data sections.

Analysis holding time requirements were met for all of the samples. The pH values of the samples were equal to 1. In the initial analysis of samples MW-2 and MW-12, the on-column amount exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The samples were reanalyzed using a smaller aliquot of raw sample to bring the on-column amount into range. We have reported both analyses of samples MW-2 and MW-12. All of the system monitoring compounds not previously mentioned met recovery criteria in the analyses of the samples. All of the internal standards met response and retention time criteria in the analyses of the samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. The initial calibrations met all acceptance criteria and therefore samples could be analyzed without having to inject a continuing calibration verification standard. Manual integrations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. The associated method blanks met all quality control criteria. The associated Laboratory Control Samples (LCS/LCSD) met overall accuracy criteria. The Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples met all quality control criteria.

I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Quentisha L. Forrester

Analyst II

March 26, 2009

| GC and GC/MS Column and Trap Specifications Table | | | | | | |
|---|-----------------------------------|------------------------|---|---------------------|--|------------|
| SDG #: | 0903084 | | | | | |
| | | | COLUMNS | | | |
| Columns Utilized | Brand Name | Coating Material | ID (mm) | Film Thickness (um) | | Length (m) |
| | GC Laboratory | | | | | |
| | Restek | RTX-5 | 0.53 | 1.0 | | 30 |
| | Restek | RTX-SMS | 0.53 | 1.0 | | 30 |
| √ | Restek | clpest | 0.32 | 0.5 | | 30 |
| √ | Restek | clpest2 | 0.32 | 0.42 | | 30 |
| | J&W | DB-210 | 0.53 | 1.0 | | 30 |
| | J&W | GS-GASPRO | 0.32 | N/A | | 30 |
| | GC Volatiles Laboratory | | | | | |
| | Restek | RTX-Volatiles | 0.53 | 2.0 | | 30 |
| | GC/MS Volatiles Laboratory | | | | | |
| | Restek | RTX-VMS | 0.18 | 1.0 | | 20 |
| √ | Supelco | SPB-624 | 0.32 | 1.8 | | 60 |
| | Supelco | SPB-624 | 0.53 | 3.0 | | 75 |
| | Phenomenex | ZB-624 | 0.32 | 1.8 | | 60 |
| | GC/MS Semivolatiles Laboratory | | | | | |
| √ | Restek | RTX-5MS | 0.32 | 0.25 | | 30 |
| | Phenomenex | ZB-5MS | 0.32 | 0.25 | | 30 |
| | HPLC Laboratory | | | | | |
| | Supelco | Supelcosil LC-PAH | 4.6 | 5.0 | | 15 cm |
| | Supelco | Discovery RP Amide C16 | 4.6 | 5.0 | | 25 cm |
| | Restek | Pinnacle Cyano | 4.6 | 5.0 | | 25 cm |
| | Restek | Allure C18 | 4.6 | 5.0 | | 25 cm |
| | | | | | | |
| | | | TRAPS | | | |
| | GC and GC/MS Volatiles Laboratory | | | | | |
| | Supelco J (BETXTRAP™) | | * 7.7 cm Carbopack C | | | |
| | | | * 1.2 cm Carbopack B | | | |
| √ | Supelco K (Vocarb3000) | | * 10 cm of Carbopack B (Graphitized Carbons) | | | |
| | | | * 6 cm of Carboxen 1000 (Carbon molecular sieves) | | | |
| | | | * 1 cm of Carboxen 1001 (Carbon molecular sieves) | | | |
| | | | | | | |
| | | | | | | Rev. 28 |

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CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

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Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

- M** - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- H** - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- MH** - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- L** - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- ML** - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

- M1** - The compound was not found by the automatic integration routine.
- M2** - The compound was incorrectly integrated by the automatic integration routine.
- M3** - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled “Q” for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

- U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.
- J : This flag indicates an estimated value. The flag is used as detailed below:
1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,
 2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and
 3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.
- N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as “chlorinated hydrocarbon” (or for an “unknown,” with no matches \geq 85% in the SOM01.1 SOW), the N flag is not used.
- P : In the EPA’s Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P. For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.
- C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

- B :** This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.
- E :** This flag identifies compounds whose concentrations (responses in the SOM01.1 SOW) exceed the upper level of the calibration range (exceed the response of the high ICAL standard in the SOM01.1 SOW) of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range (greater than the response of the highest ICAL standard in the SOM01.1 SOW), the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range (with responses greater than the response of the highest ICAL standard in the SOM01.1 SOW) will have the concentration (result in the SOM01.1 SOW) flagged with an E on Form I for the original analysis.
- D :** If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration (response in the SOM01.1 SOW) of an analyte exceeds the upper calibration range (exceeds the response of the highest ICAL standard in the SOM01.1 SOW), the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.
- NOTE 1:** The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.
- NOTE 2:** Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.
- A:** This flag indicates that a TIC is a suspected aldol-condensation product.
- S:** In the SOM01.1 SOW, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.
- X/Y/Z :** Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I and Form I - TIC

Organic Analysis Data Sheet (OADS) and
Tentatively Identified Compounds (TICs)

- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-05

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0573

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 2.9 | |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 9.9 | |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.32 | J |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.6 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.59 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 0.67 | |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 25 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 65 | E |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.65 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.36 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.65 | |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 5.1 | |
| 78-87-5 | 1,2-Dichloropropane | 0.89 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-06

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-06R73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.7 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.16 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 2.3 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 6.1 | |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 1.1 | |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-06
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-06R73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|----|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 4.2 | |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 2.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.20 | JB |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2DL

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-02RE1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-02D73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 12.5

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

| | | | |
|------------|-----------------------------|-----|----|
| 74-95-3 | Dibromomethane | 6.3 | U |
| 80-62-6 | Methylmethacrylate | 63 | U |
| 75-27-4 | Bromodichloromethane | 6.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 31 | U |
| 108-88-3 | Toluene | 6.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6.3 | U |
| 97-63-2 | Ethylmethacrylate | 63 | U |
| 127-18-4 | Tetrachloroethene | 3.2 | DJ |
| 142-28-9 | 1,3-Dichloropropane | 6.3 | U |
| 591-78-6 | 2-hexanone | 31 | U |
| 124-48-1 | Dibromochloromethane | 6.3 | U |
| 108-90-7 | Chlorobenzene | 6.3 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 6.3 | U |
| 100-41-4 | Ethylbenzene | 6.3 | U |
| 108-38-3 | m,p-Xylene | 13 | U |
| 95-47-6 | o-Xylene | 6.3 | U |
| 100-42-5 | Styrene | 6.3 | U |
| 75-25-2 | Bromoform | 6.3 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 6.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.3 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 25 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 6.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 6.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 6.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.3 | U |
| 87-68-3 | Hexachlorobutadiene | 6.3 | U |
| 91-20-3 | Naphthalene | 6.3 | U |
| 1330-20-7 | Xylene (total) | 6.3 | U |
| 126-99-8 | Chloroprene | 6.3 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-01

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | | |
|----------|--------------------------|------|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.18 | J |
| 75-01-4 | Vinyl Chloride | 0.14 | J |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 2.4 | |
| 75-69-4 | Trichlorofluoromethane | 0.11 | J |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.5 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.25 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | J |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.1 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 24 | |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 2.5 | |
| 78-87-5 | 1,2-Dichloropropane | 0.26 | J |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-01
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0173
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.91 | |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MSD

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031920-MSD1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031920-MSD173
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.7 | |
| 80-62-6 | Methylmethacrylate | 51 | |
| 75-27-4 | Bromodichloromethane | 5.4 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 5.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.5 | |
| 97-63-2 | Ethylmethacrylate | 50 | |
| 127-18-4 | Tetrachloroethene | 6.5 | |
| 142-28-9 | 1,3-Dichloropropane | 5.3 | |
| 591-78-6 | 2-hexanone | 19 | |
| 124-48-1 | Dibromochloromethane | 5.4 | |
| 108-90-7 | Chlorobenzene | 5.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.8 | |
| 100-41-4 | Ethylbenzene | 5.2 | |
| 108-38-3 | m,p-Xylene | 11 | |
| 95-47-6 | o-Xylene | 5.2 | |
| 100-42-5 | Styrene | 5.2 | |
| 75-25-2 | Bromoform | 5.4 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.4 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.8 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 17 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5.1 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.8 | |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.5 | |
| 87-68-3 | Hexachlorobutadiene | 5.4 | |
| 91-20-3 | Naphthalene | 3.8 | B |
| 1330-20-7 | Xylene (total) | 16 | |
| 126-99-8 | Chloroprene | 4.5 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-03
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0373
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.7 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.20 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.19 | J |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.18 | J |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.35 | J |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-03

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0373

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-07
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-07R73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.1 | |
| 74-87-3 | Chloromethane | 4.8 | |
| 75-01-4 | Vinyl Chloride | 5.2 | |
| 74-83-9 | Bromomethane | 5.1 | |
| 75-00-3 | Chloroethane | 5.9 | |
| 75-69-4 | Trichlorofluoromethane | 6.0 | |
| 107-02-8 | Acrolein | 38 | |
| 75-35-4 | 1,1-Dichloroethene | 5.3 | |
| 74-88-4 | Iodomethane | 5.1 | |
| 75-15-0 | Carbon disulfide | 5.4 | |
| 67-64-1 | Acetone | 22 | B |
| 107-05-1 | 3-Chloropropene | 4.1 | |
| 75-05-8 | Acetonitrile | 4.2 | |
| 75-09-2 | Methylene Chloride | 5.3 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | |
| 107-13-1 | Acrylonitrile | 45 | |
| 75-34-3 | 1,1-Dichloroethane | 5.2 | |
| 108-05-4 | Vinyl acetate | 8.8 | |
| 594-20-7 | 2,2-Dichloropropane | 4.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.4 | |
| 78-93-3 | 2-butanone | 19 | |
| 107-12-0 | Propionitrile | 240 | |
| 74-97-5 | Bromochloromethane | 5.8 | |
| 126-98-7 | Methacrylonitrile | 42 | |
| 67-66-3 | Chloroform | 5.5 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.2 | |
| 56-23-5 | Carbon Tetrachloride | 5.4 | |
| 563-58-6 | 1,1-dichloropropene | 4.8 | |
| 71-43-2 | Benzene | 5.3 | |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | |
| 78-83-1 | Isobutyl alcohol | 180 | |
| 79-01-6 | Trichloroethene | 5.3 | |
| 78-87-5 | 1,2-Dichloropropane | 5.2 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS D

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031920-BSD1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031920-BSD173_D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.1 | |
| 74-87-3 | Chloromethane | 4.9 | |
| 75-01-4 | Vinyl Chloride | 5.4 | |
| 74-83-9 | Bromomethane | 4.9 | |
| 75-00-3 | Chloroethane | 5.4 | |
| 75-69-4 | Trichlorofluoromethane | 5.8 | |
| 107-02-8 | Acrolein | 39 | |
| 75-35-4 | 1,1-Dichloroethene | 5.3 | |
| 74-88-4 | Iodomethane | 5.4 | |
| 75-15-0 | Carbon disulfide | 5.4 | |
| 67-64-1 | Acetone | 23 | B |
| 107-05-1 | 3-Chloropropene | 4.0 | |
| 75-05-8 | Acetonitrile | 4.1 | |
| 75-09-2 | Methylene Chloride | 5.4 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | |
| 107-13-1 | Acrylonitrile | 46 | |
| 75-34-3 | 1,1-Dichloroethane | 5.2 | |
| 108-05-4 | Vinyl acetate | 8.7 | |
| 594-20-7 | 2,2-Dichloropropane | 4.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.6 | |
| 78-93-3 | 2-butanone | 20 | |
| 107-12-0 | Propionitrile | 240 | |
| 74-97-5 | Bromochloromethane | 6.0 | |
| 126-98-7 | Methacrylonitrile | 41 | |
| 67-66-3 | Chloroform | 5.4 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.2 | |
| 56-23-5 | Carbon Tetrachloride | 5.4 | |
| 563-58-6 | 1,1-dichloropropene | 4.9 | |
| 71-43-2 | Benzene | 5.2 | |
| 107-06-2 | 1,2-Dichloroethane | 5.1 | |
| 78-83-1 | Isobutyl alcohol | 190 | |
| 79-01-6 | Trichloroethene | 5.3 | |
| 78-87-5 | 1,2-Dichloropropane | 5.1 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS D

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031920-BSD1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031920-BSD173_D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.3 | |
| 80-62-6 | Methylmethacrylate | 49 | |
| 75-27-4 | Bromodichloromethane | 5.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.8 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 4.6 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.7 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.1 | |
| 97-63-2 | Ethylmethacrylate | 47 | |
| 127-18-4 | Tetrachloroethene | 5.2 | |
| 142-28-9 | 1,3-Dichloropropane | 5.0 | |
| 591-78-6 | 2-hexanone | 18 | |
| 124-48-1 | Dibromochloromethane | 5.1 | |
| 108-90-7 | Chlorobenzene | 5.1 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.1 | |
| 100-41-4 | Ethylbenzene | 4.7 | |
| 108-38-3 | m,p-Xylene | 9.8 | |
| 95-47-6 | o-Xylene | 4.7 | |
| 100-42-5 | Styrene | 4.7 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.6 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.5 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 16 | |
| 541-73-1 | 1,3-Dichlorobenzene | 4.5 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.6 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.6 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.3 | |
| 87-68-3 | Hexachlorobutadiene | 4.7 | |
| 91-20-3 | Naphthalene | 3.7 | B |
| 1330-20-7 | Xylene (total) | 15 | |
| 126-99-8 | Chloroprene | 4.3 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BS173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.3 | |
| 74-87-3 | Chloromethane | 4.7 | |
| 75-01-4 | Vinyl Chloride | 5.6 | |
| 74-83-9 | Bromomethane | 5.4 | |
| 75-00-3 | Chloroethane | 5.3 | |
| 75-69-4 | Trichlorofluoromethane | 5.9 | |
| 107-02-8 | Acrolein | 45 | |
| 75-35-4 | 1,1-Dichloroethene | 5.5 | |
| 74-88-4 | Iodomethane | 5.1 | |
| 75-15-0 | Carbon disulfide | 5.5 | |
| 67-64-1 | Acetone | 20 | B |
| 107-05-1 | 3-Chloropropene | 4.5 | |
| 75-05-8 | Acetonitrile | 4.5 | |
| 75-09-2 | Methylene Chloride | 5.5 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | |
| 107-13-1 | Acrylonitrile | 48 | |
| 75-34-3 | 1,1-Dichloroethane | 5.4 | |
| 108-05-4 | Vinyl acetate | 9.0 | |
| 594-20-7 | 2,2-Dichloropropane | 5.1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.5 | |
| 78-93-3 | 2-butanone | 20 | |
| 107-12-0 | Propionitrile | 240 | |
| 74-97-5 | Bromochloromethane | 5.9 | |
| 126-98-7 | Methacrylonitrile | 45 | |
| 67-66-3 | Chloroform | 5.4 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | |
| 56-23-5 | Carbon Tetrachloride | 5.0 | |
| 563-58-6 | 1,1-dichloropropene | 4.7 | |
| 71-43-2 | Benzene | 5.3 | |
| 107-06-2 | 1,2-Dichloroethane | 5.3 | |
| 78-83-1 | Isobutyl alcohol | 190 | |
| 79-01-6 | Trichloroethene | 5.2 | |
| 78-87-5 | 1,2-Dichloropropane | 5.3 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BS173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.3 | |
| 80-62-6 | Methylmethacrylate | 49 | |
| 75-27-4 | Bromodichloromethane | 5.1 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | |
| 108-10-1 | 4-Methyl-2-pentanone | 21 | |
| 108-88-3 | Toluene | 4.7 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.3 | |
| 97-63-2 | Ethylmethacrylate | 49 | |
| 127-18-4 | Tetrachloroethene | 4.7 | |
| 142-28-9 | 1,3-Dichloropropane | 5.3 | |
| 591-78-6 | 2-hexanone | 19 | |
| 124-48-1 | Dibromochloromethane | 5.2 | |
| 108-90-7 | Chlorobenzene | 4.9 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.1 | |
| 100-41-4 | Ethylbenzene | 4.4 | |
| 108-38-3 | m,p-Xylene | 8.7 | |
| 95-47-6 | o-Xylene | 4.5 | |
| 100-42-5 | Styrene | 4.5 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 18 | |
| 541-73-1 | 1,3-Dichlorobenzene | 4.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.2 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.4 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.1 | |
| 87-68-3 | Hexachlorobutadiene | 4.6 | |
| 91-20-3 | Naphthalene | 3.7 | B |
| 1330-20-7 | Xylene (total) | 14 | |
| 126-99-8 | Chloroprene | 4.6 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCSD

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031905-BSD1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031905-BSD173
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.4 | |
| 74-87-3 | Chloromethane | 4.9 | |
| 75-01-4 | Vinyl Chloride | 5.7 | |
| 74-83-9 | Bromomethane | 5.3 | |
| 75-00-3 | Chloroethane | 5.8 | |
| 75-69-4 | Trichlorofluoromethane | 6.0 | |
| 107-02-8 | Acrolein | 47 | |
| 75-35-4 | 1,1-Dichloroethene | 5.6 | |
| 74-88-4 | Iodomethane | 5.4 | |
| 75-15-0 | Carbon disulfide | 5.6 | |
| 67-64-1 | Acetone | 19 | B |
| 107-05-1 | 3-Chloropropene | 4.6 | |
| 75-05-8 | Acetonitrile | 4.7 | |
| 75-09-2 | Methylene Chloride | 5.4 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.7 | |
| 107-13-1 | Acrylonitrile | 49 | |
| 75-34-3 | 1,1-Dichloroethane | 5.4 | |
| 108-05-4 | Vinyl acetate | 9.1 | |
| 594-20-7 | 2,2-Dichloropropane | 5.1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.7 | |
| 78-93-3 | 2-butanone | 21 | |
| 107-12-0 | Propionitrile | 250 | |
| 74-97-5 | Bromochloromethane | 5.9 | |
| 126-98-7 | Methacrylonitrile | 45 | |
| 67-66-3 | Chloroform | 5.5 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.1 | |
| 56-23-5 | Carbon Tetrachloride | 5.2 | |
| 563-58-6 | 1,1-dichloropropene | 4.8 | |
| 71-43-2 | Benzene | 5.4 | |
| 107-06-2 | 1,2-Dichloroethane | 5.2 | |
| 78-83-1 | Isobutyl alcohol | 200 | |
| 79-01-6 | Trichloroethene | 5.5 | |
| 78-87-5 | 1,2-Dichloropropane | 5.3 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCSD

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BSD173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.1 | |
| 80-62-6 | Methylmethacrylate | 49 | |
| 75-27-4 | Bromodichloromethane | 5.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | |
| 108-10-1 | 4-Methyl-2-pentanone | 21 | |
| 108-88-3 | Toluene | 4.9 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.4 | |
| 97-63-2 | Ethylmethacrylate | 51 | |
| 127-18-4 | Tetrachloroethene | 5.0 | |
| 142-28-9 | 1,3-Dichloropropane | 5.1 | |
| 591-78-6 | 2-hexanone | 20 | |
| 124-48-1 | Dibromochloromethane | 5.4 | |
| 108-90-7 | Chlorobenzene | 5.2 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.2 | |
| 100-41-4 | Ethylbenzene | 4.8 | |
| 108-38-3 | m,p-Xylene | 9.9 | |
| 95-47-6 | o-Xylene | 5.0 | |
| 100-42-5 | Styrene | 4.9 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.2 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 18 | |
| 541-73-1 | 1,3-Dichlorobenzene | 4.6 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.5 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.5 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.2 | |
| 87-68-3 | Hexachlorobutadiene | 4.7 | |
| 91-20-3 | Naphthalene | 3.7 | B |
| 1330-20-7 | Xylene (total) | 15 | |
| 126-99-8 | Chloroprene | 4.6 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHELCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 7.4 | |
| 74-87-3 | Chloromethane | 5.3 | |
| 75-01-4 | Vinyl Chloride | 5.9 | |
| 74-83-9 | Bromomethane | 5.3 | |
| 75-00-3 | Chloroethane | 4.6 | |
| 75-69-4 | Trichlorofluoromethane | 4.9 | |
| 107-02-8 | Acrolein | 65 | |
| 75-35-4 | 1,1-Dichloroethene | 5.2 | |
| 74-88-4 | Iodomethane | 5.1 | |
| 75-15-0 | Carbon disulfide | 5.1 | |
| 67-64-1 | Acetone | 20 | B |
| 107-05-1 | 3-Chloropropene | 5.3 | |
| 75-05-8 | Acetonitrile | 5.5 | |
| 75-09-2 | Methylene Chloride | 5.1 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.3 | |
| 107-13-1 | Acrylonitrile | 100 | |
| 75-34-3 | 1,1-Dichloroethane | 5.3 | |
| 108-05-4 | Vinyl acetate | 22 | |
| 594-20-7 | 2,2-Dichloropropane | 5.2 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.4 | |
| 78-93-3 | 2-butanone | 23 | |
| 107-12-0 | Propionitrile | 260 | |
| 74-97-5 | Bromochloromethane | 5.0 | |
| 126-98-7 | Methacrylonitrile | 5.3 | |
| 67-66-3 | Chloroform | 5.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.4 | |
| 56-23-5 | Carbon Tetrachloride | 5.5 | |
| 563-58-6 | 1,1-dichloropropene | 5.6 | |
| 71-43-2 | Benzene | 5.3 | |
| 107-06-2 | 1,2-Dichloroethane | 5.1 | |
| 78-83-1 | Isobutyl alcohol | 230 | |
| 79-01-6 | Trichloroethene | 5.1 | |
| 78-87-5 | 1,2-Dichloropropane | 5.3 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHELCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 4.9 | |
| 80-62-6 | Methylmethacrylate | 54 | |
| 75-27-4 | Bromodichloromethane | 5.4 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 25 | |
| 108-88-3 | Toluene | 5.5 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.8 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.2 | |
| 97-63-2 | Ethylmethacrylate | 55 | |
| 127-18-4 | Tetrachloroethene | 5.1 | |
| 142-28-9 | 1,3-Dichloropropane | 5.2 | |
| 591-78-6 | 2-hexanone | 25 | |
| 124-48-1 | Dibromochloromethane | 5.0 | |
| 108-90-7 | Chlorobenzene | 5.2 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.1 | |
| 100-41-4 | Ethylbenzene | 5.4 | |
| 108-38-3 | m,p-Xylene | 11 | |
| 95-47-6 | o-Xylene | 5.4 | |
| 100-42-5 | Styrene | 5.4 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.1 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 19 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.4 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.9 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.9 | |
| 87-68-3 | Hexachlorobutadiene | 6.0 | |
| 91-20-3 | Naphthalene | 4.5 | B |
| 1330-20-7 | Xylene (total) | 17 | |
| 126-99-8 | Chloroprene | 5.5 | |

FORM I VOA

C. Form II

Surrogate spike analysis

- By level (low, medium, high) -

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| | CLIENT SAMPLE NO. | SMC1 (DBF) # | SMC2 (DCE) # | SMC3 (TOL) # | SMC4 (BFB) # | TOT OUT |
|----|----------------------|-----------------|-----------------|-----------------|-----------------|------------|
| 01 | VBLKHB | 111 | 96 | 106 | 87 | 0 |
| 02 | VHBLCS | 108 | 95 | 99 | 82 | 0 |
| 03 | VHBLCSD | 116 | 100 | 106 | 86 | 0 |
| 04 | MW-3 | 115 | 100 | 117 | 95 | 0 |
| 05 | MW-2 | 121 | 109 | 113 | 95 | 0 |
| 06 | MW-8 | 123 | 112 | 119 | 96 | 0 |
| 07 | MW-9 | 124 | 114 | 113 | 88 | 0 |
| 08 | MW-12 | 126 | 115 | 107 | 93 | 0 |
| 09 | VBLKDD | 120 | 99 | 105 | 87 | 0 |
| 10 | VDDLCS | 117 | 102 | 98 | 80 | 0 |
| 11 | VDDLCS | 120 | 98 | 99 | 83 | 0 |
| 12 | MW-17 | 106 | 83 | 102 | 83 | 0 |
| 13 | MW-12DL | 112 | 94 | 102 | 85 | 0 |
| 14 | MW-2DL | 121 | 111 | 107 | 82 | 0 |
| 15 | MW-3MS | 110 | 96 | 87 | 70 | 0 |
| 16 | MW-3MSD | 111 | 96 | 93 | 81 | 0 |
| 17 | VBLKHE | 108 | 106 | 116 | 112 | 0 |
| 18 | VHELCS | 96 | 96 | 96 | 94 | 0 |
| 19 | TRIP BLANK | 123 | 125 | 116 | 105 | 0 |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |

QC LIMITS

SMC1 (DBF) = Dibromofluoromethane (65-150)
 SMC2 (DCE) = 1,2-Dichloroethane-d4 (59-150)
 SMC3 (TOL) = Toluene-d8 (61-145)
 SMC4 (BFB) = Bromofluorobenzene (63-143)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results

- By level (low, medium, high) -

Laboratory Control Sample(s)

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------|-----------------------------|-------------------------|------------|-----------------|
| Dichlorodifluoromethane | 5 | 0.0 | 5.624 | 112 | 50-150 |
| Chloromethane | 5 | 0.1824 | 5.923 | 115 | 50-141 |
| Vinyl Chloride | 5 | 0.1409 | 6.271 | 123 | 49-142 |
| Bromomethane | 5 | 0.0 | 5.902 | 118 | 54-150 |
| Chloroethane | 5 | 2.422 | 8.001 | 112 | 61-150 |
| Trichlorofluoromethane | 5 | 0.1147 | 6.431 | 126 | 59-150 |
| Acrolein | 50 | 0.0 | 39.31 | 79 | 50-150 |
| 1,1-Dichloroethene | 5 | 0.0 | 5.583 | 112 | 50-150 |
| Iodomethane | 5 | 0.0 | 5.298 | 106 | 50-150 |
| Carbon disulfide | 5 | 0.0 | 6.056 | 121 | 50-150 |
| Acetone | 25 | 2.484 | 19.51 | 68 | 50-142 |
| 3-Chloropropene | 5 | 0.0 | 4.252 | 85 | 50-150 |
| Acetonitrile | 5 | 0.0 | 4.331 | 87 | 20-150 |
| Methylene Chloride | 5 | 0.2473 | 6.029 | 116 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 0.2 | 6.4 | 124 | 60-143 |
| Acrylonitrile | 50 | 0.0 | 49.83 | 100 | 50-147 |
| 1,1-Dichloroethane | 5 | 8.108 | 12.9 | 96 | 63-140 |
| Vinyl acetate | 10 | 0.0 | 9.772 | 98 | 50-150 |
| 2,2-Dichloropropane | 5 | 0.0 | 5.602 | 112 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 24 | 29 | 100 | 58-148 |
| 2-butanone | 25 | 0.0 | 20.61 | 82 | 50-150 |
| Propionitrile | 250 | 0.0 | 253 | 101 | 50-150 |
| Bromochloromethane | 5 | 0.0 | 6.418 | 128 | 50-150 |
| Methacrylonitrile | 50 | 0.0 | 44.82 | 90 | 50-150 |
| Chloroform | 5 | 0.0 | 6.062 | 121 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 0.0 | 5.872 | 117 | 58-150 |
| Carbon Tetrachloride | 5 | 0.0 | 5.888 | 118 | 50-150 |
| 1,1-dichloropropene | 5 | 0.0 | 5.456 | 109 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------|-----------------------------|-------------------------|------------|-----------------|
| Benzene | 5 | 0.0 | 5.793 | 116 | 76-134 |
| 1,2-Dichloroethane | 5 | 0.0 | 5.778 | 116 | 58-143 |
| Isobutyl alcohol | 250 | 0.0 | 204.4 | 82 | 50-150 |
| Trichloroethene | 5 | 2.517 | 8.334 | 116 | 71-143 |
| 1,2-Dichloropropane | 5 | 0.2592 | 6.091 | 117 | 59-138 |
| Dibromomethane | 5 | 0.0 | 6.469 | 129 | 56-150 |
| Methylmethacrylate | 50 | 0.0 | 53.03 | 106 | 50-150 |
| Bromodichloromethane | 5 | 0.0 | 5.592 | 112 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 0.0 | 5.029 | 101 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 0.0 | 19.42 | 78 | 50-145 |
| Toluene | 5 | 0.0 | 5.154 | 103 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 0.0 | 4.985 | 100 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 0.0 | 5.587 | 112 | 60-133 |
| Ethylmethacrylate | 50 | 0.0 | 49.66 | 99 | 56-140 |
| Tetrachloroethene | 5 | 0.9088 | 6.436 | 111 | 59-150 |
| 1,3-Dichloropropane | 5 | 0.0 | 5.184 | 104 | 66-128 |
| 2-hexanone | 25 | 0.0 | 17.59 | 70 | 50-142 |
| Dibromochloromethane | 5 | 0.0 | 5.489 | 110 | 69-136 |
| Chlorobenzene | 5 | 0.0 | 5.493 | 110 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 0.0 | 5.669 | 113 | 71-134 |
| Ethylbenzene | 5 | 0.0 | 5.232 | 105 | 63-136 |
| Styrene | 5 | 0.0 | 5.123 | 102 | 62-133 |
| Bromoform | 5 | 0.0 | 5.633 | 113 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 0.0 | 5.658 | 113 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 0.0 | 4.625 | 93 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 0.0 | 17.13 | 86 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 0.0 | 4.993 | 100 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 0.0 | 4.88 | 98 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|-----------------------------------|-------------------------------|------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2-Dichlorobenzene | 5 | 0.0 | 4.987 | 100 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 0.0 | 4.317 | 86 | 31-140 |
| Hexachlorobutadiene | 5 | 0.0 | 5.349 | 107 | 44-135 |
| Naphthalene | 5 | 0.0 | 3.521 | 70 | 10-145 |
| Xylene (total) | 15 | 0.0 | 16.64 | 111 | 62-136 |
| Chloroprene | 5 | 0.0 | 4.678 | 94 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 5 | 5.452 | 109 | 3 | 25 | 50-150 |
| Chloromethane | 5 | 5.434 | 105 | 9 | 25 | 50-141 |
| Vinyl Chloride | 5 | 6.132 | 120 | 2 | 25 | 49-142 |
| Bromomethane | 5 | 6.107 | 122 | 3 | 25 | 54-150 |
| Chloroethane | 5 | 7.788 | 107 | 3 | 25 | 61-150 |
| Trichlorofluoromethane | 5 | 6.039 | 118 | 6 | 25 | 59-150 |
| Acrolein | 50 | 39.16 | 78 | 0 | 25 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.548 | 111 | 1 | 14 | 50-150 |
| Iodomethane | 5 | 5.335 | 107 | 1 | 25 | 50-150 |
| Carbon disulfide | 5 | 5.724 | 114 | 6 | 25 | 50-150 |
| Acetone | 25 | 19.23 | 67 | 1 | 25 | 50-142 |
| 3-Chloropropene | 5 | 4.174 | 83 | 2 | 25 | 50-150 |
| Acetonitrile | 5 | 4.236 | 85 | 2 | 40 | 20-150 |
| Methylene Chloride | 5 | 5.904 | 113 | 2 | 25 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 6.3 | 122 | 2 | 25 | 60-143 |
| Acrylonitrile | 50 | 47.76 | 96 | 4 | 25 | 50-147 |
| 1,1-Dichloroethane | 5 | 12.27 | 83 | 5 | 25 | 63-140 |
| Vinyl acetate | 10 | 8.93 | 89 | 9 | 25 | 50-150 |
| 2,2-Dichloropropane | 5 | 5.255 | 105 | 6 | 25 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 28 | 80 | 4 | 25 | 58-148 |
| 2-butanone | 25 | 19.93 | 80 | 3 | 25 | 50-150 |
| Propionitrile | 250 | 247.1 | 99 | 2 | 25 | 50-150 |
| Bromochloromethane | 5 | 6.068 | 121 | 6 | 25 | 50-150 |
| Methacrylonitrile | 50 | 43.53 | 87 | 3 | 25 | 50-150 |
| Chloroform | 5 | 5.732 | 115 | 6 | 25 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.521 | 110 | 6 | 25 | 58-150 |
| Carbon Tetrachloride | 5 | 5.701 | 114 | 3 | 25 | 50-150 |
| 1,1-dichloropropene | 5 | 5.105 | 102 | 7 | 25 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Benzene | 5 | 5.695 | 114 | 2 | 11 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.487 | 110 | 5 | 25 | 58-143 |
| Isobutyl alcohol | 250 | 192.5 | 77 | 6 | 25 | 50-150 |
| Trichloroethene | 5 | 8.31 | 116 | 0 | 14 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.861 | 112 | 4 | 25 | 59-138 |
| Dibromomethane | 5 | 6.719 | 134 | 4 | 25 | 56-150 |
| Methylmethacrylate | 50 | 51.4 | 103 | 3 | 25 | 50-150 |
| Bromodichloromethane | 5 | 5.373 | 107 | 4 | 25 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 4.957 | 99 | 1 | 25 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 19.27 | 77 | 1 | 25 | 50-145 |
| Toluene | 5 | 5.08 | 102 | 1 | 13 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 5.075 | 102 | 2 | 25 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.471 | 109 | 2 | 25 | 60-133 |
| Ethylmethacrylate | 50 | 50.24 | 100 | 1 | 25 | 56-140 |
| Tetrachloroethene | 5 | 6.472 | 111 | 1 | 25 | 59-150 |
| 1,3-Dichloropropane | 5 | 5.326 | 107 | 3 | 25 | 66-128 |
| 2-hexanone | 25 | 18.88 | 76 | 7 | 25 | 50-142 |
| Dibromochloromethane | 5 | 5.354 | 107 | 2 | 25 | 69-136 |
| Chlorobenzene | 5 | 5.505 | 110 | 0 | 13 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 5.777 | 116 | 2 | 25 | 71-134 |
| Ethylbenzene | 5 | 5.248 | 105 | 0 | 25 | 63-136 |
| Styrene | 5 | 5.154 | 103 | 1 | 25 | 62-133 |
| Bromoform | 5 | 5.401 | 108 | 4 | 25 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 5.357 | 107 | 5 | 25 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 4.772 | 95 | 3 | 25 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 17.17 | 86 | 0 | 25 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 5.131 | 103 | 3 | 25 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.8 | 96 | 2 | 25 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS | |
|------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| 1,2-Dichlorobenzene | 5 | 5.011 | 100 | 0 | 25 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.53 | 91 | 5 | 25 | 31-140 |
| Hexachlorobutadiene | 5 | 5.406 | 108 | 1 | 25 | 44-135 |
| Naphthalene | 5 | 3.777 | 76 | 7 | 25 | 10-145 |
| Xylene (total) | 15 | 16.45 | 110 | 1 | 25 | 62-136 |
| Chloroprene | 5 | 4.491 | 90 | 4 | 40 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 62 outside limits

Spike Recovery: 0 out of 124 outside limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDDLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Dichlorodifluoromethane | 5 | | 5.101 | 102 | 50-150 |
| Chloromethane | 5 | | 4.8 | 96 | 50-141 |
| Vinyl Chloride | 5 | | 5.224 | 104 | 49-142 |
| Bromomethane | 5 | | 5.061 | 101 | 54-150 |
| Chloroethane | 5 | | 5.904 | 118 | 61-150 |
| Trichlorofluoromethane | 5 | | 5.958 | 119 | 59-150 |
| Acrolein | 50 | | 37.96 | 76 | 50-150 |
| 1,1-Dichloroethene | 5 | | 5.262 | 105 | 50-150 |
| Iodomethane | 5 | | 5.108 | 102 | 50-150 |
| Carbon disulfide | 5 | | 5.391 | 108 | 50-150 |
| Acetone | 25 | | 22.42 | 90 | 50-142 |
| 3-Chloropropene | 5 | | 4.075 | 81 | 50-150 |
| Acetonitrile | 5 | | 4.161 | 83 | 20-150 |
| Methylene Chloride | 5 | | 5.278 | 106 | 50-149 |
| trans-1,2-Dichloroethen | 5 | | 5.6 | 112 | 60-143 |
| Acrylonitrile | 50 | | 45.49 | 91 | 50-147 |
| 1,1-Dichloroethane | 5 | | 5.238 | 105 | 63-140 |
| Vinyl acetate | 10 | | 8.773 | 88 | 50-150 |
| 2,2-Dichloropropane | 5 | | 4.882 | 98 | 51-150 |
| cis-1,2-Dichloroethene | 5 | | 5.4 | 108 | 58-148 |
| 2-butanone | 25 | | 19.37 | 77 | 50-150 |
| Propionitrile | 250 | | 238.1 | 95 | 50-150 |
| Bromochloromethane | 5 | | 5.809 | 116 | 50-150 |
| Methacrylonitrile | 50 | | 42.21 | 84 | 50-150 |
| Chloroform | 5 | | 5.47 | 109 | 57-146 |
| 1,1,1-Trichloroethane | 5 | | 5.189 | 104 | 58-150 |
| Carbon Tetrachloride | 5 | | 5.377 | 108 | 50-150 |
| 1,1-dichloropropene | 5 | | 4.798 | 96 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VDDLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Benzene | 5 | | 5.309 | 106 | 76-134 |
| 1,2-Dichloroethane | 5 | | 5.043 | 101 | 58-143 |
| Isobutyl alcohol | 250 | | 176.3 | 71 | 50-150 |
| Trichloroethene | 5 | | 5.288 | 106 | 71-143 |
| 1,2-Dichloropropane | 5 | | 5.215 | 104 | 59-138 |
| Dibromomethane | 5 | | 6.053 | 121 | 56-150 |
| Methylmethacrylate | 50 | | 48.84 | 98 | 50-150 |
| Bromodichloromethane | 5 | | 4.995 | 100 | 63-139 |
| cis-1,3-Dichloropropene | 5 | | 4.876 | 98 | 56-142 |
| 4-Methyl-2-pentanone | 25 | | 18.89 | 76 | 50-145 |
| Toluene | 5 | | 4.74 | 95 | 70-137 |
| trans-1,3-Dichloroprope | 5 | | 4.742 | 95 | 61-135 |
| 1,1,2-Trichloroethane | 5 | | 5.042 | 101 | 60-133 |
| Ethylmethacrylate | 50 | | 46.99 | 94 | 56-140 |
| Tetrachloroethene | 5 | | 5.355 | 107 | 59-150 |
| 1,3-Dichloropropane | 5 | | 4.931 | 99 | 66-128 |
| 2-hexanone | 25 | | 17.67 | 71 | 50-142 |
| Dibromochloromethane | 5 | | 4.982 | 100 | 69-136 |
| Chlorobenzene | 5 | | 5.102 | 102 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | | 5.346 | 107 | 71-134 |
| Ethylbenzene | 5 | | 4.873 | 97 | 63-136 |
| Styrene | 5 | | 4.781 | 96 | 62-133 |
| Bromoform | 5 | | 5.136 | 103 | 58-144 |
| 1,2,3-Trichloropropane | 5 | | 5.396 | 108 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | | 4.416 | 88 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | | 16.63 | 83 | 50-150 |
| 1,3-Dichlorobenzene | 5 | | 4.782 | 96 | 61-126 |
| 1,4-Dichlorobenzene | 5 | | 4.655 | 93 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VDDLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2-Dichlorobenzene | 5 | | 4.657 | 93 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | | 4.551 | 91 | 31-140 |
| Hexachlorobutadiene | 5 | | 4.891 | 98 | 44-135 |
| Naphthalene | 5 | | 3.645 | 73 | 10-145 |
| Xylene (total) | 15 | | 15.61 | 104 | 62-136 |
| Chloroprene | 5 | | 4.265 | 85 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDDLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 5 | 5.115 | 102 | 0 | 25 | 50-150 |
| Chloromethane | 5 | 4.881 | 98 | 2 | 25 | 50-141 |
| Vinyl Chloride | 5 | 5.419 | 108 | 4 | 25 | 49-142 |
| Bromomethane | 5 | 4.932 | 99 | 2 | 25 | 54-150 |
| Chloroethane | 5 | 5.362 | 107 | 10 | 25 | 61-150 |
| Trichlorofluoromethane | 5 | 5.756 | 115 | 3 | 25 | 59-150 |
| Acrolein | 50 | 39.21 | 78 | 3 | 25 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.279 | 106 | 1 | 14 | 50-150 |
| Iodomethane | 5 | 5.409 | 108 | 6 | 25 | 50-150 |
| Carbon disulfide | 5 | 5.435 | 109 | 1 | 25 | 50-150 |
| Acetone | 25 | 23.2 | 93 | 3 | 25 | 50-142 |
| 3-Chloropropene | 5 | 3.989 | 80 | 1 | 25 | 50-150 |
| Acetonitrile | 5 | 4.117 | 82 | 1 | 40 | 20-150 |
| Methylene Chloride | 5 | 5.4 | 108 | 2 | 25 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 5.6 | 112 | 0 | 25 | 60-143 |
| Acrylonitrile | 50 | 46.04 | 92 | 1 | 25 | 50-147 |
| 1,1-Dichloroethane | 5 | 5.163 | 103 | 2 | 25 | 63-140 |
| Vinyl acetate | 10 | 8.712 | 87 | 1 | 25 | 50-150 |
| 2,2-Dichloropropane | 5 | 4.876 | 98 | 0 | 25 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 5.6 | 112 | 4 | 25 | 58-148 |
| 2-butanone | 25 | 20.14 | 81 | 5 | 25 | 50-150 |
| Propionitrile | 250 | 242.3 | 97 | 2 | 25 | 50-150 |
| Bromochloromethane | 5 | 5.982 | 120 | 3 | 25 | 50-150 |
| Methacrylonitrile | 50 | 41.49 | 83 | 1 | 25 | 50-150 |
| Chloroform | 5 | 5.367 | 107 | 2 | 25 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.161 | 103 | 1 | 25 | 58-150 |
| Carbon Tetrachloride | 5 | 5.382 | 108 | 0 | 25 | 50-150 |
| 1,1-dichloropropene | 5 | 4.935 | 99 | 3 | 25 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDDLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Benzene | 5 | 5.237 | 105 | 1 | 11 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.068 | 101 | 0 | 25 | 58-143 |
| Isobutyl alcohol | 250 | 186.6 | 75 | 5 | 25 | 50-150 |
| Trichloroethene | 5 | 5.282 | 106 | 0 | 14 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.126 | 103 | 1 | 25 | 59-138 |
| Dibromomethane | 5 | 6.255 | 125 | 3 | 25 | 56-150 |
| Methylmethacrylate | 50 | 49.37 | 99 | 1 | 25 | 50-150 |
| Bromodichloromethane | 5 | 5.181 | 104 | 4 | 25 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 4.783 | 96 | 2 | 25 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 19.24 | 77 | 1 | 25 | 50-145 |
| Toluene | 5 | 4.616 | 92 | 3 | 13 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 4.734 | 95 | 0 | 25 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.128 | 103 | 2 | 25 | 60-133 |
| Ethylmethacrylate | 50 | 47.17 | 94 | 0 | 25 | 56-140 |
| Tetrachloroethene | 5 | 5.226 | 105 | 2 | 25 | 59-150 |
| 1,3-Dichloropropane | 5 | 4.972 | 99 | 0 | 25 | 66-128 |
| 2-hexanone | 25 | 17.52 | 70 | 1 | 25 | 50-142 |
| Dibromochloromethane | 5 | 5.082 | 102 | 2 | 25 | 69-136 |
| Chlorobenzene | 5 | 5.062 | 101 | 1 | 13 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 5.129 | 103 | 4 | 25 | 71-134 |
| Ethylbenzene | 5 | 4.731 | 95 | 2 | 25 | 63-136 |
| Styrene | 5 | 4.687 | 94 | 2 | 25 | 62-133 |
| Bromoform | 5 | 5.08 | 102 | 1 | 25 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 5.559 | 111 | 3 | 25 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 4.466 | 89 | 1 | 25 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 16.39 | 82 | 1 | 25 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 4.495 | 90 | 6 | 25 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.606 | 92 | 1 | 25 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VDDLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| 1,2-Dichlorobenzene | 5 | 4.584 | 92 | 1 | 25 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.32 | 86 | 6 | 25 | 31-140 |
| Hexachlorobutadiene | 5 | 4.713 | 94 | 4 | 25 | 44-135 |
| Naphthalene | 5 | 3.661 | 73 | 0 | 25 | 10-145 |
| Xylene (total) | 15 | 15.03 | 100 | 4 | 25 | 62-136 |
| Chloroprene | 5 | 4.311 | 86 | 1 | 40 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 62 outside limits

Spike Recovery: 0 out of 124 outside limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHBLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Dichlorodifluoromethane | 5 | | 5.285 | 106 | 50-150 |
| Chloromethane | 5 | | 4.741 | 95 | 50-141 |
| Vinyl Chloride | 5 | | 5.592 | 112 | 49-142 |
| Bromomethane | 5 | | 5.406 | 108 | 54-150 |
| Chloroethane | 5 | | 5.279 | 106 | 61-150 |
| Trichlorofluoromethane | 5 | | 5.937 | 119 | 59-150 |
| Acrolein | 50 | | 44.9 | 90 | 50-150 |
| 1,1-Dichloroethene | 5 | | 5.476 | 110 | 50-150 |
| Iodomethane | 5 | | 5.147 | 103 | 50-150 |
| Carbon disulfide | 5 | | 5.498 | 110 | 50-150 |
| Acetone | 25 | | 20.07 | 80 | 50-142 |
| 3-Chloropropene | 5 | | 4.492 | 90 | 50-150 |
| Acetonitrile | 5 | | 4.493 | 90 | 20-150 |
| Methylene Chloride | 5 | | 5.478 | 110 | 50-149 |
| trans-1,2-Dichloroethen | 5 | | 5.6 | 112 | 60-143 |
| Acrylonitrile | 50 | | 48.4 | 97 | 50-147 |
| 1,1-Dichloroethane | 5 | | 5.418 | 108 | 63-140 |
| Vinyl acetate | 10 | | 8.961 | 90 | 50-150 |
| 2,2-Dichloropropane | 5 | | 5.066 | 101 | 51-150 |
| cis-1,2-Dichloroethene | 5 | | 5.5 | 110 | 58-148 |
| 2-butanone | 25 | | 20.41 | 82 | 50-150 |
| Propionitrile | 250 | | 243.7 | 97 | 50-150 |
| Bromochloromethane | 5 | | 5.851 | 117 | 50-150 |
| Methacrylonitrile | 50 | | 45.47 | 91 | 50-150 |
| Chloroform | 5 | | 5.423 | 108 | 57-146 |
| 1,1,1-Trichloroethane | 5 | | 5.016 | 100 | 58-150 |
| Carbon Tetrachloride | 5 | | 5.002 | 100 | 50-150 |
| 1,1-dichloropropene | 5 | | 4.745 | 95 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHBLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Benzene | 5 | | 5.343 | 107 | 76-134 |
| 1,2-Dichloroethane | 5 | | 5.27 | 105 | 58-143 |
| Isobutyl alcohol | 250 | | 194.1 | 78 | 50-150 |
| Trichloroethene | 5 | | 5.174 | 103 | 71-143 |
| 1,2-Dichloropropane | 5 | | 5.28 | 106 | 59-138 |
| Dibromomethane | 5 | | 6.264 | 125 | 56-150 |
| Methylmethacrylate | 50 | | 48.56 | 97 | 50-150 |
| Bromodichloromethane | 5 | | 5.139 | 103 | 63-139 |
| cis-1,3-Dichloropropene | 5 | | 4.943 | 99 | 56-142 |
| 4-Methyl-2-pentanone | 25 | | 20.68 | 83 | 50-145 |
| Toluene | 5 | | 4.709 | 94 | 70-137 |
| trans-1,3-Dichloroprope | 5 | | 4.959 | 99 | 61-135 |
| 1,1,2-Trichloroethane | 5 | | 5.328 | 107 | 60-133 |
| Ethylmethacrylate | 50 | | 49.03 | 98 | 56-140 |
| Tetrachloroethene | 5 | | 4.669 | 93 | 59-150 |
| 1,3-Dichloropropane | 5 | | 5.26 | 105 | 66-128 |
| 2-hexanone | 25 | | 18.92 | 76 | 50-142 |
| Dibromochloromethane | 5 | | 5.188 | 104 | 69-136 |
| Chlorobenzene | 5 | | 4.919 | 98 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | | 5.09 | 102 | 71-134 |
| Ethylbenzene | 5 | | 4.371 | 87 | 63-136 |
| Styrene | 5 | | 4.479 | 90 | 62-133 |
| Bromoform | 5 | | 5.128 | 103 | 58-144 |
| 1,2,3-Trichloropropane | 5 | | 5.052 | 101 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | | 4.576 | 92 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | | 18.13 | 91 | 50-150 |
| 1,3-Dichlorobenzene | 5 | | 4.25 | 85 | 61-126 |
| 1,4-Dichlorobenzene | 5 | | 4.232 | 85 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHBLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2-Dichlorobenzene | 5 | | 4.435 | 89 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | | 4.082 | 82 | 31-140 |
| Hexachlorobutadiene | 5 | | 4.589 | 92 | 44-135 |
| Naphthalene | 5 | | 3.734 | 75 | 10-145 |
| Xylene (total) | 15 | | 13.69 | 91 | 62-136 |
| Chloroprene | 5 | | 4.576 | 92 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHBLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 5 | 5.365 | 107 | 1 | 25 | 50-150 |
| Chloromethane | 5 | 4.876 | 98 | 3 | 25 | 50-141 |
| Vinyl Chloride | 5 | 5.686 | 114 | 2 | 25 | 49-142 |
| Bromomethane | 5 | 5.256 | 105 | 3 | 25 | 54-150 |
| Chloroethane | 5 | 5.827 | 117 | 10 | 25 | 61-150 |
| Trichlorofluoromethane | 5 | 6.014 | 120 | 1 | 25 | 59-150 |
| Acrolein | 50 | 47.09 | 94 | 4 | 25 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.618 | 112 | 2 | 14 | 50-150 |
| Iodomethane | 5 | 5.414 | 108 | 5 | 25 | 50-150 |
| Carbon disulfide | 5 | 5.557 | 111 | 1 | 25 | 50-150 |
| Acetone | 25 | 18.97 | 76 | 5 | 25 | 50-142 |
| 3-Chloropropene | 5 | 4.577 | 92 | 2 | 25 | 50-150 |
| Acetonitrile | 5 | 4.66 | 93 | 3 | 40 | 20-150 |
| Methylene Chloride | 5 | 5.431 | 109 | 1 | 25 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 5.7 | 114 | 2 | 25 | 60-143 |
| Acrylonitrile | 50 | 49.25 | 99 | 2 | 25 | 50-147 |
| 1,1-Dichloroethane | 5 | 5.4 | 108 | 0 | 25 | 63-140 |
| Vinyl acetate | 10 | 9.103 | 91 | 1 | 25 | 50-150 |
| 2,2-Dichloropropane | 5 | 5.077 | 102 | 1 | 25 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 5.7 | 114 | 4 | 25 | 58-148 |
| 2-butanone | 25 | 21.38 | 86 | 5 | 25 | 50-150 |
| Propionitrile | 250 | 246.8 | 99 | 2 | 25 | 50-150 |
| Bromochloromethane | 5 | 5.931 | 119 | 2 | 25 | 50-150 |
| Methacrylonitrile | 50 | 45.14 | 90 | 1 | 25 | 50-150 |
| Chloroform | 5 | 5.461 | 109 | 1 | 25 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.109 | 102 | 2 | 25 | 58-150 |
| Carbon Tetrachloride | 5 | 5.206 | 104 | 4 | 25 | 50-150 |
| 1,1-dichloropropene | 5 | 4.825 | 97 | 2 | 25 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHBLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCS D CONCENTRATION (ug/L) | LCS D % REC # | % RPD # | QC LIMITS | |
|-----------------------------|--------------------------|----------------------------------|---------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Benzene | 5 | 5.389 | 108 | 1 | 11 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.199 | 104 | 1 | 25 | 58-143 |
| Isobutyl alcohol | 250 | 200.1 | 80 | 3 | 25 | 50-150 |
| Trichloroethene | 5 | 5.517 | 110 | 7 | 14 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.326 | 107 | 1 | 25 | 59-138 |
| Dibromomethane | 5 | 6.13 | 123 | 2 | 25 | 56-150 |
| Methylmethacrylate | 50 | 49.46 | 99 | 2 | 25 | 50-150 |
| Bromodichloromethane | 5 | 5.175 | 104 | 1 | 25 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 4.944 | 99 | 0 | 25 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 21.07 | 84 | 1 | 25 | 50-145 |
| Toluene | 5 | 4.909 | 98 | 4 | 13 | 70-137 |
| trans-1,3-Dichloropropene | 5 | 4.981 | 100 | 1 | 25 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.38 | 108 | 1 | 25 | 60-133 |
| Ethylmethacrylate | 50 | 50.51 | 101 | 3 | 25 | 56-140 |
| Tetrachloroethene | 5 | 5.05 | 101 | 8 | 25 | 59-150 |
| 1,3-Dichloropropane | 5 | 5.12 | 102 | 3 | 25 | 66-128 |
| 2-hexanone | 25 | 20.13 | 81 | 6 | 25 | 50-142 |
| Dibromochloromethane | 5 | 5.363 | 107 | 3 | 25 | 69-136 |
| Chlorobenzene | 5 | 5.239 | 105 | 7 | 13 | 74-136 |
| 1,1,1,2-Tetrachloroethane | 5 | 5.234 | 105 | 3 | 25 | 71-134 |
| Ethylbenzene | 5 | 4.786 | 96 | 10 | 25 | 63-136 |
| Styrene | 5 | 4.877 | 98 | 9 | 25 | 62-133 |
| Bromoform | 5 | 5.126 | 103 | 0 | 25 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 5.186 | 104 | 3 | 25 | 47-143 |
| 1,1,2,2-Tetrachloroethane | 5 | 4.56 | 91 | 1 | 25 | 43-139 |
| trans-1,4-dichloro-2-butene | 20 | 17.92 | 90 | 1 | 25 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 4.603 | 92 | 8 | 25 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.484 | 90 | 6 | 25 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHBLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| 1,2-Dichlorobenzene | 5 | 4.479 | 90 | 1 | 25 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.227 | 85 | 4 | 25 | 31-140 |
| Hexachlorobutadiene | 5 | 4.714 | 94 | 2 | 25 | 44-135 |
| Naphthalene | 5 | 3.701 | 74 | 1 | 25 | 10-145 |
| Xylene (total) | 15 | 15.4 | 103 | 12 | 25 | 62-136 |
| Chloroprene | 5 | 4.645 | 93 | 1 | 40 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 62 outside limits

Spike Recovery: 0 out of 124 outside limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHELCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== |
| Dichlorodifluoromethane | 5 | 7.403 | 148 | 50-150 |
| Chloromethane | 5 | 5.344 | 107 | 50-141 |
| Vinyl Chloride | 5 | 5.911 | 118 | 49-142 |
| Bromomethane | 5 | 5.305 | 106 | 54-150 |
| Chloroethane | 5 | 4.551 | 91 | 61-150 |
| Trichlorofluoromethane | 5 | 4.913 | 98 | 59-150 |
| Acrolein | 50 | 64.54 | 129 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.218 | 104 | 50-150 |
| Iodomethane | 5 | 5.05 | 101 | 50-150 |
| Carbon disulfide | 5 | 5.149 | 103 | 50-150 |
| Acetone | 25 | 20.07 | 80 | 50-142 |
| 3-Chloropropene | 5 | 5.299 | 106 | 50-150 |
| Acetonitrile | 5 | 5.487 | 110 | 20-150 |
| Methylene Chloride | 5 | 5.132 | 103 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 5.3 | 106 | 60-143 |
| Acrylonitrile | 100 | 103.2 | 103 | 50-147 |
| 1,1-Dichloroethane | 5 | 5.278 | 106 | 63-140 |
| Vinyl acetate | 20 | 21.57 | 108 | 50-150 |
| 2,2-Dichloropropane | 5 | 5.16 | 103 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 5.4 | 108 | 58-148 |
| 2-butanone | 25 | 23.15 | 93 | 50-150 |
| Propionitrile | 250 | 257.4 | 103 | 50-150 |
| Bromochloromethane | 5 | 5.015 | 100 | 50-150 |
| Methacrylonitrile | 50 | 53.46 | 107 | 50-150 |
| Chloroform | 5 | 5.232 | 105 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.376 | 108 | 58-150 |
| Carbon Tetrachloride | 5 | 5.469 | 109 | 50-150 |
| 1,1-dichloropropene | 5 | 5.605 | 112 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHELCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|--------------------------------|-------------------|-----------------------|
| Benzene | 5 | 5.337 | 107 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.136 | 103 | 58-143 |
| Isobutyl alcohol | 250 | 225.2 | 90 | 50-150 |
| Trichloroethene | 5 | 5.133 | 103 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.32 | 106 | 59-138 |
| Dibromomethane | 5 | 4.891 | 98 | 56-150 |
| Methylmethacrylate | 50 | 53.87 | 108 | 50-150 |
| Bromodichloromethane | 5 | 5.402 | 108 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 5.027 | 101 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 24.91 | 100 | 50-145 |
| Toluene | 5 | 5.46 | 109 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 4.821 | 96 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.177 | 104 | 60-133 |
| Ethylmethacrylate | 50 | 55.04 | 110 | 56-140 |
| Tetrachloroethene | 5 | 5.123 | 102 | 59-150 |
| 1,3-Dichloropropane | 5 | 5.233 | 105 | 66-128 |
| 2-hexanone | 25 | 25.24 | 101 | 50-142 |
| Dibromochloromethane | 5 | 4.973 | 99 | 69-136 |
| Chlorobenzene | 5 | 5.163 | 103 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 5.136 | 103 | 71-134 |
| Ethylbenzene | 5 | 5.411 | 108 | 63-136 |
| Styrene | 5 | 5.422 | 108 | 62-133 |
| Bromoform | 5 | 5.056 | 101 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 4.998 | 100 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 5.068 | 101 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 18.69 | 93 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 4.972 | 99 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.414 | 88 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHELCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== |
| 1,2-Dichlorobenzene | 5 | 4.858 | 97 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.943 | 99 | 31-140 |
| Hexachlorobutadiene | 5 | 6.028 | 121 | 44-135 |
| Naphthalene | 5 | 4.55 | 91 | 10-145 |
| Xylene (total) | 15 | 17.01 | 113 | 62-136 |
| Chloroprene | 5 | 5.545 | 111 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS:

E. Form IV

Method Blank Results

Form IV, Form I, and Form I - TIC

Method blank summary, OADS, and TICs

- In chronological order of analysis

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKDD

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031920-BLK1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031920-BLK173_D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 1.8 | J |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.12 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBKDD

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BLK173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 2.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.15 | J |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKHB

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Lab File ID: 9031905-BLK173

Lab Sample ID: 9031905-BLK1

Date Analyzed: 03/19/09

Time Analyzed: 1055

GC Column: SPB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5972HP73

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|------------|---------------|--------------|---------------|
| | ===== | ===== | ===== | ===== |
| 01 | VHBLCS | 9031905-BS1 | 9031905-BS17 | 1137 |
| 02 | VHBLCSD | 9031905-BSD1 | 9031905-BSD1 | 1206 |
| 03 | MW-3 | 0903084-01 | 0903084-0173 | 1828 |
| 04 | MW-2 | 0903084-02 | 0903084-0273 | 1857 |
| 05 | MW-8 | 0903084-03 | 0903084-0373 | 1927 |
| 06 | MW-9 | 0903084-04 | 0903084-0473 | 1957 |
| 07 | MW-12 | 0903084-05 | 0903084-0573 | 2026 |
| 08 | | | | |
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKHB

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031905-BLK1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031905-BLK173
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 1.7 | J |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.11 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

| |
|--------|
| VBLKHE |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Lab File ID: 9032016-BLK1R73_D

Lab Sample ID: 9032016-BLK1

Date Analyzed: 03/20/09

Time Analyzed: 1639

GC Column: SPB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5972HP73

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|------------|---------------|--------------|---------------|
| | ===== | ===== | ===== | ===== |
| 01 | VHELCS | 9032016-BS1 | 9032016-BS17 | 1708 |
| 02 | TRIP BLANK | 0903084-07 | 0903084-07R7 | 2131 |
| 03 | | | | |
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKHE

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BLK1R73_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 1.8 | J |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.14 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBKHE

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BLK1R73_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.22 | J |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

F. Form VIII

Internal standard area and retention time data
(VOA and SV only)

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Lab File ID (Standard): 9C20003-CAL3R273 Date Analyzed: 03/20/09

Instrument ID: 5972HP73

Time Analyzed: 1610

GC Column: SPB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

| | IS1 (FBZ) AREA # | RT # | IS2 (CBZ) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 359660 | 10.25 | 240864 | 12.65 | 111410 | 14.40 |
| UPPER LIMIT | 719320 | 10.75 | 481728 | 13.15 | 222820 | 14.90 |
| LOWER LIMIT | 179830 | 9.75 | 120432 | 12.15 | 55705 | 13.90 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKHE | 349884 | 10.25 | 218297 | 12.65 | 93053 | 14.39 |
| 02 VHELCS | 345699 | 10.25 | 238055 | 12.65 | 112897 | 14.39 |
| 03 TRIP BLANK | 271105 | 10.23 | 170654 | 12.65 | 73051 | 14.40 |
| 04 | | | | | | |
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| 20 | | | | | | |

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC/MS by SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

- A. SDG Narrative
- B. Chain-of-Custody Documentation
- C. SDG Data

LAB CODE : LIBRTY

METHOD: 8260B

CASE # : _____

SDG # : 0903084

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation

501 Madison Avenue

Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # 0903084

PROTOCOL: SW-846

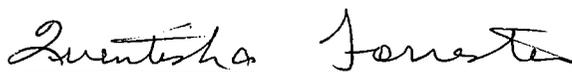
**SAMPLE IDENTIFICATIONS: MW-3, MW-2, MW-8, MW-9, MW-12,
MW-17 AND TRIP BLANK**

The 7 aqueous samples listed above were received intact, properly refrigerated between 0.8°C, with proper documentation, in sealed shipping containers, on March 12th, 2009. The samples were scheduled for the requested analyses of the volatile fraction. SW-846, 3rd Edition, Update 3, 8260B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for SDG 0903084 are included in the sample data sections.

Analysis holding time requirements were met for all of the samples. The pH values of the samples were equal to 1. In the initial analysis of samples MW-2 and MW-12, the on-column amount exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The samples were reanalyzed using a smaller aliquot of raw sample to bring the on-column amount into range. We have reported both analyses of samples MW-2 and MW-12. All of the system monitoring compounds not previously mentioned met recovery criteria in the analyses of the samples. All of the internal standards met response and retention time criteria in the analyses of the samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. The initial calibrations met all acceptance criteria and therefore samples could be analyzed without having to inject a continuing calibration verification standard. Manual integrations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. The associated method blanks met all quality control criteria. The associated Laboratory Control Samples (LCS/LCSD) met overall accuracy criteria. The Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples met all quality control criteria.

I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Quentisha L. Forrester

Analyst II

March 26, 2009

| GC and GC/MS Column and Trap Specifications Table | | | | | | |
|---|-----------------------------------|------------------------|---|---------------------|------------|-------|
| SDG #: | 0903084 | | | | | |
| | | | COLUMNS | | | |
| Columns Utilized | Brand Name | Coating | ID (mm) | Film Thickness (um) | Length (m) | |
| | GC Laboratory | | | | | |
| | Restek | RTX-5 | 0.53 | 1.0 | | 30 |
| | Restek | RTX-SMS | 0.53 | 1.0 | | 30 |
| √ | Restek | clpest | 0.32 | 0.5 | | 30 |
| √ | Restek | clpest2 | 0.32 | 0.42 | | 30 |
| | J&W | DB-210 | 0.53 | 1.0 | | 30 |
| | J&W | GS-GASPRO | 0.32 | N/A | | 30 |
| | GC Volatiles Laboratory | | | | | |
| | Restek | RTX-Volatiles | 0.53 | 2.0 | | 30 |
| | GC/MS Volatiles Laboratory | | | | | |
| | Restek | RTX-VMS | 0.18 | 1.0 | | 20 |
| √ | Supelco | SPB-624 | 0.32 | 1.8 | | 60 |
| | Supelco | SPB-624 | 0.53 | 3.0 | | 75 |
| | Phenomenex | ZB-624 | 0.32 | 1.8 | | 60 |
| | GC/MS Semivolatiles Laboratory | | | | | |
| √ | Restek | RTX-5MS | 0.32 | 0.25 | | 30 |
| | Phenomenex | ZB-5MS | 0.32 | 0.25 | | 30 |
| | HPLC Laboratory | | | | | |
| | Supelco | Supelcosil LC-PAH | 4.6 | 5.0 | | 15 cm |
| | Supelco | Discovery RP Amide C16 | 4.6 | 5.0 | | 25 cm |
| | Restek | Pinnacle Cyano | 4.6 | 5.0 | | 25 cm |
| | Restek | Allure C18 | 4.6 | 5.0 | | 25 cm |
| | TRAPS | | | | | |
| | GC and GC/MS Volatiles Laboratory | | | | | |
| | Supelco J (BETXTRAP™) | | * 7.7 cm Carbopack C | | | |
| | | | * 1.2 cm Carbopack B | | | |
| √ | Supelco K (Vocarb3000) | | * 10 cm of Carbopack B (Graphitized Carbons) | | | |
| | | | * 6 cm of Carboxen 1000 (Carbon molecular sieves) | | | |
| | | | * 1 cm of Carboxen 1001 (Carbon molecular sieves) | | | |
| | Rev. 28 | | | | | |

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CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

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Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

- M** - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- H** - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- MH** - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- L** - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- ML** - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

- M1** - The compound was not found by the automatic integration routine.
- M2** - The compound was incorrectly integrated by the automatic integration routine.
- M3** - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled “Q” for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

- U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.
- J : This flag indicates an estimated value. The flag is used as detailed below:
1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,
 2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and
 3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.
- N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as “chlorinated hydrocarbon” (or for an “unknown,” with no matches ≥ 85% in the SOM01.1 SOW), the N flag is not used.
- P : In the EPA’s Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P. For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.
- C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

- B :** This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.
- E :** This flag identifies compounds whose concentrations (responses in the SOM01.1 SOW) exceed the upper level of the calibration range (exceed the response of the high ICAL standard in the SOM01.1 SOW) of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range (greater than the response of the highest ICAL standard in the SOM01.1 SOW), the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range (with responses greater than the response of the highest ICAL standard in the SOM01.1 SOW) will have the concentration (result in the SOM01.1 SOW) flagged with an E on Form I for the original analysis.
- D :** If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration (response in the SOM01.1 SOW) of an analyte exceeds the upper calibration range (exceeds the response of the highest ICAL standard in the SOM01.1 SOW), the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.
- NOTE 1:** The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.
- NOTE 2:** Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.
- A:** This flag indicates that a TIC is a suspected aldol-condensation product.
- S:** In the SOM01.1 SOW, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.
- X/Y/Z :** Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

CHAIN OF CUSTODY RECORD

Laboratory: CompuChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (800) 833 5097 Fax (919) 379-4050 Attn: Cathy Dover

Client: Watauga County, NC
 Attn: Mr. J.V. Poller
 Address: 842 West King Street/Courthouse, Suite 1
 Boone, NC 28607
 Phone: (704) 265-8003
 Fax: 0

Consultant: Draper Aden Associates
 Attn: Janet C. Frazier
 Address: 2206 South Main Street
 Blacksburg, Virginia 24050
 Phone: (540) 552-0444
 Fax: (540) 552-0291

Sample Site: Watauga County Landfill
 Location: Watauga County, NC

Event: March 2009 Semiannual Assess Monitoring Event
 DAA JN: 6520-39
 Lab JN:

Project Specific (SP) or Batch (B) QC: Yes No
 Sample Collection for Project Complete? (See Note 1) Yes No

Invoice
 Copy to Consultant: Yes No
 Bill: Client Consultant Preserved and shipped on ice: Yes No

Box 1: Matrix
 SW Surface Water T Trip Blank
 GW Groundwater E Equipment Blank
 L Leachate P Product
 S Soil O Other

Box 2: Preservative
 A HCL
 B HNO₃
 C H₂SO₄
 D Na₂S₂O₃
 E NaOH
 F ZnAc
 G Other (Specify)
 H None

Box 3: Filtered/Unfiltered
 F Filtered
 U Unfiltered

Box 4: Sample Type
 G Grab
 C Composite

Box 4 - Sample Type
 Box 3 - Filtered/Unfiltered
 Required pH of Sample
 Box 2 - Preservative
 Box 5 - Sample Container Type

| Sample ID | Date: 2009 | Time | Box 1: Matrix | Number of Bottles | 8260B | CLP METALS ILMO 4.1 | Event | Lab JN | Tracking Number |
|------------|------------|------|---------------|-------------------|-------|---------------------|------------|------------|-----------------|
| MM-2 | 03/12 | 1315 | GW | 4 | X | X | 0903084-02 | 0903084-01 | UPS 57768823893 |
| MM-3 | 03/12 | 1320 | GW | 4 | X | X | 0903084-03 | -04 | |
| MM-3ms | 03/12 | 1320 | GW | 4 | X | X | -05 | -06 | |
| MM-3msd | 03/12 | 1320 | GW | 4 | X | X | | | |
| MM-8 | 03/12 | 1240 | GW | 4 | X | X | | | |
| MM-9 | 03/12 | 1140 | GW | 4 | X | X | | | |
| MM-12 | 03/12 | 1215 | GW | 4 | X | X | | | |
| MM-17 | 03/12 | 1305 | GW | 4 | X | X | | | |
| Trip Blank | 03/12 | | T | 1 | X | X | | | |

Client's Special Instructions: Level 4 w/ EDO & PDF

Received by lab in Good Condition Yes No Custody Seal Intact Yes No Temperature upon arrival 08°C Received on ice Yes No

Describe problems, if any:

Sampler Name: Chris Branscome Date: 03/12/09 #1 Relinquished by (Signature): Chris Branscome Date: 03/12/09 #2 Relinquished by (Signature):
 Signature: Chris Branscome Time: 0700 Company Name: Draper Aden Associates Date: 03/12/09 Time: 1700 Company Name:
 Sampler Name: Dale Stangler Date: 3/11/09 #1 Received by (Signature): Dale Stangler Date: 03/12/09 #2 Received by (Signature):
 Signature: Dale Stangler Time: 0700 Company Name: CompuChem Date: 0945 Time: 0945 Company Name:

Sample Storage Time Requested: 30 DYS ORG/6 MTHS INORG

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CHAIN OF CUSTODY RECORD

Laboratory: ComputChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (900) 833 5097 Fax (919) 379-4050 Attn: Cathy Dover

Client: Watauga County, NC
 Attn: Mr. J.V. Peller
 Address: 842 West King Street/Courthouse, Suite 1
 Boone, NC 28607
 Phone: (704) 265-8003
 Fax: 0

Consultant: Draper Aden Associates
 Attn: Janet C. Frazier
 Address: 2206 South Main Street
 Blacksburg, Virginia 24050
 Phone: (540) 552-0444
 Fax: (540) 552-0291

Sample Site: Watauga County Landfill
 Location: Watauga County, NC
 Event: March 2009 Semiannual Assess. Monitoring Event
 DAA, JN:
 Lab JN:

Project Specific (PS) of Batch (B) QC: Yes No
 Sample Collection for Project Complete? (See Note 1) Yes No
 Carrier: UPS
 Tracking Number: 1T168823893

Box 1: Matrix
 SW Surface Water T Trip Blank
 GW Groundwater E Equipment Blank
 L Leachate P Product
 S Soil O Other

Box 2: Preservative
 A HCL
 B HNO₃
 C H₂SO₄
 D Na₂S₂O₃
 E NaOH
 F ZnAc
 G Other (Specify)
 H None

Box 3: Filtered/Unfiltered
 F Filtered
 U Unfiltered

Box 4: Sample Type
 G Grab
 C Composite

Invoice
 Copy to Consultant: Yes No
 Bill: Client Consultant
 Preserved and shipped on ice: Yes No

Box 4 - Sample Type: G
 Box 3 - Filtered/Unfiltered: U
 Required pH of Sample: <2
 Box 2 - Preservative: A
 Box 5 - Sample Container Type: 3-40ml V

| Sample ID | Date: 2009 | Time | Box 1: Matrix | Number of Bottles | CLP VOLATILES OLMO 4.3 |
|-----------|------------|------|---------------|-------------------|------------------------|
| S-1 | 03/12 | 0915 | SW | 3 | X |
| S-2 | 03/12 | 0925 | SW | 3 | X |
| S-3 | 03/12 | 0900 | SW | 3 | X |
| S-4 | 03/12 | 1000 | SW | 3 | X |
| S-5 | 03/12 | 0940 | SW | 3 | X |
| S-6 | 03/12 | 1020 | SW | 3 | X |

Client's Special Instructions: Level 4 deliverables w/ EDD & PDF. TRIP BLANK 0903085-07

Received by lab in Good Condition Yes No Custody Seal Intact Yes No Temperature upon arrival Yes No Received on Ice Yes No

| | | | | | |
|--|----------------------|--|-----------------------|---------------------------------|-------|
| Sampler Name (Print): <u>Chris Branscome</u> | Date: <u>3/11/09</u> | #1 Relinquished by (Signature): <u>Chris Branscome</u> | Date: <u>03/12/09</u> | #2 Relinquished by (Signature): | Date: |
| Sampler Signature: <u>Chris Branscome</u> | Time: <u>0700</u> | Company Name: <u>Draper Aden Associates</u> | Time: <u>1700</u> | Company Name: | Time: |
| Sampler Name (Print): <u>Dale Sleight</u> | Date: <u>3/11/09</u> | #1 Received by (Signature): <u>Dale Sleight</u> | Date: <u>3/12/09</u> | #2 Received by (Signature): | Date: |
| Sampler Signature: <u>Dale Sleight</u> | Time: <u>0700</u> | Company Name: <u>ComputChem</u> | Time: <u>0945</u> | Company Name: | Time: |

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Sample Storage Time Requested: 30 DYS ORG/6 MTHS INORG

Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

ANALYTICAL METHOD: 8260B/5030B – 25mL Purge
TYPE METHOD: GCMS
CLASS: VOLATILE

Run For All Monitoring Wells & Trip Blank:

| No. | ANALYTE | CAS RN |
|------------|---|---------------|
| 1. | Acetone | 67-64-1 |
| 2. | Acetonitrile (methyl cyanide) | 75-05-8 |
| 3. | Acrolein | 107-02-8 |
| 4. | Acrylonitrile | 107-13-1 |
| 5. | Allyl chloride | 107-05-1 |
| 6. | Benzene | 71-43-2 |
| 7. | Bromochloromethane | 74-97-5 |
| 8. | Bromodichloromethane | 75-27-4 |
| 9. | Bromoform (tribromomethane) | 75-25-2 |
| 10. | Bromomethane; (Methyl bromide) | 74-83-9 |
| 11. | 2-butanone (methyl ethyl ketone - MEK) | 78-93-3 |
| 12. | Carbon disulfide | 75-15-0 |
| 13. | Carbon tetrachloride | 56-23-5 |
| 14. | Chlorobenzene | 108-90-7 |
| 15. | Chloroethane (ethyl chloride) | 75-00-3 |
| 16. | Chloroform (trichloromethane) | 67-66-3 |
| 17. | chloromethane ; (Methyl chloride) | 74-87-3 |
| 18. | Chloroprene | 126-99-8 |
| 19. | Dibromochloromethane | 124-48-1 |
| 20. | dibromomethane, (Methylene bromide) | 74-95-3 |
| 21. | 1,2-dichlorobenzene; (o-dichlorobenzene) | 95-50-1 |
| 22. | 1,3-dichlorobenzene, (m-dichlorobenzene) | 541-73-1 |
| 23. | 1,4-dichlorobenzene; (p-dichlorobenzene) | 106-46-7 |
| 24. | trans-1,4-dichloro-2-butene | 110-57-6 |
| 25. | Dichlorodifluoromethane | 75-71-8 |
| 26. | 1,1-dichloroethane | 75-34-3 |
| 27. | 1,2-dichloroethane | 107-06-2 |
| 28. | 1,1-dichloroethene (vinylidene chloride) | 75-35-4 |
| 29. | cis-1,2-dichloroethene | 156-59-2 |
| 30. | trans-1,2-dichloroethene | 156-60-5 |
| 31. | 1,2-dichloropropane | 78-87-5 |
| 32. | 1,3-dichloropropane | 142-28-9 |
| 33. | 2,2-dichloropropane | 594-20-7 |
| 34. | 1,1-dichloropropene | 563-58-6 |
| 35. | cis-1,3-dichloropropene | 10061-01-5 |
| 36. | trans-1,3-dichloropropene | 10061-02-6 |
| 37. | Ethylbenzene | 100-41-4 |
| 38. | Ethyl methacrylate | 97-63-2 |
| 39. | Hexachlorobutadiene | 87-68-3 |
| 40. | 2-hexanone (methyl butyl ketone - MBK) | 591-78-6 |
| 41. | iodomethane; (Methyl iodide) | 74-88-4 |
| 42. | Isobutyl alcohol | 78-83-1 |
| 43. | Methacrylonitrile | 126-98-7 |
| 44. | Methyl methacrylate | 80-62-6 |
| 45. | 4-methyl-2-pentanone (methyl isobutyl ketone) | 108-10-1 |
| 46. | Naphthalene | 91-20-3 |
| 47. | Propionitrile | 107-12-0 |
| 48. | Styrene (phenylethene) | 100-42-5 |
| 49. | 1,1,1,2-tetrachloroethane | 630-20-6 |

KFC – 2/19/2009

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Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

| | |
|---|-----------|
| 51. Tetrachloroethene | 127-18-4 |
| 52. Toluene (methyl benzene) | 108-88-3 |
| 53. 1,2,4-trichlorobenzene | 120-82-1 |
| 54. 1,1,1-trichloroethane (methyl chloroform) | 71-55-6 |
| 55. 1,1,2-trichloroethane | 79-00-5 |
| 56. Trichloroethene | 79-01-6 |
| 57. Trichlorofluoromethane (CFC-11) | 75-69-4 |
| 58. 1,2,3-trichloropropane | 96-18-4 |
| 59. Vinyl acetate | 108-05-4 |
| 60. Xylenes (total) | 1330-20-7 |

ADDITIONAL ANALYTES FOR 8260B

| | | |
|----|--------------------|---------|
| 61 | methylene chloride | 75-09-2 |
| 62 | Vinyl chloride | 75-01-4 |

KFC - 2/19/2009

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*
Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

ANALYTICAL METHODS: CLP OLMO 4.3
TYPE METHOD: CLP
CLASS: VOLATILE

*
Run for Surface Locations: S-1, S-2, S-3, S-4, S-5 & S-6:

| <u>No.</u> | <u>PARAMETER</u> | <u>CAS RN</u> |
|------------|--|---------------|
| 1 | Benzene | 71-43-2 |
| 2 | Chloroethane (ethyl chloride) | 75-00-3 |
| 3 | Dichlorodifluoromethane | 75-71-8 |
| 4 | 1,1-dichloroethane | 75-34-3 |
| 5 | 1,1-dichloroethylene (vinylidene chloride) | 75-35-4 |
| 6 | cis-1,2-dichloroethylene | 156-59-2 |
| 7 | trans-1,2-dichloroethylene | 156-60-5 |
| 8 | Tetrachloroethylene | 127-18-4 |
| 9 | Trichloroethylene | 79-01-6 |
| 10 | Methylene chloride | 75-09-2 |
| 11 | Vinyl chloride | 75-01-4 |
| 12 | 1,1,1-trichloroethane | 71-55-6 |
| 13 | Chlorobenzene | 108-90-7 |
| 14 | 1,4 - dichlorobenzene | 106-46-7 |
| 15 | 1,2 - dichloroethane | 107-06-2 |
| 16 | 1,2 - dichloropropane | 78-87-5 |

NEW
JR
2/24/09

KFC - 2/19/2009

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KFC

Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

ANALYTICAL METHOD: CLP ILMO 4.1
TYPE METHOD: CLP
CLASS: TOTAL METALS

Run for all Monitoring Wells

| <u>No.</u> | <u>PARAMETER</u> | <u>METHOD</u> | <u>CAS RN</u> |
|------------|------------------|---------------|---------------|
| 1 | Barium | 6010 | 7440-39-3 |
| 2 | Iron | 6010 | 7439-89-6 |
| 3 | Chromium | 6010 | 7440-47-3 |
| 4 | Cobalt | 6020 | 7440-48-4 |
| 5 | Nickel | 6010 | 7440-02-0 |
| 6 | Vanadium | 6010 | 7440-62-2 |

KFC - 2/19/2009

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res.parameterlists.doc

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5/6

Ken Coddington

From: Jeff Smith
Sent: Wednesday, February 18, 2009 10:47 AM
To: Ken Coddington
Subject: RE: Watauga Co. LF Sample Kit Order

- This event is scheduled for March. It should be exactly like last March (i.e., the smaller core monitoring well **subset**, and metals),

- except only sample the two business wells (one no longer in-use) and five residential wells (two potable use and three non-potable use) like we sampled in September 2008.

- 2239 Hwy 421 South (well reference no. 1) potable use ✓
- 2347 Hwy 421 South (well reference no. 2) non-potable use only ✓
- BREMCO, 2491 Hwy 421 South (well reference no. 5) no longer in-use ✓
- Hollar and Greene Produce, 230 Cabbage Row (well reference no. 6) ✓
- 2711 Hwy 421 South (well reference no. 15) non-potable use only ✓
- 2737 Hwy 421 South (well reference no. 16) non-potable use only ✓
- 142 Green Briar Lane (well reference no. 21) potable use. ✓

Last March we sampled eighteen residential wells south of the southern saddle, we are only sampling one this time (142 Green Briar Lane).

JEFF SMITH
PROJECT GEOLOGIST
Draper Aden Associates
Engineering - Surveying - Environmental Services
Celebrating 35 Years of Service
2206 SOUTH MAIN STREET
BLACKSBURG VIRGINIA
phone 540-552-0444
fax 540-552-0291
<http://www.daa.com>

From: Ken Coddington
Sent: Tuesday, February 17, 2009 8:58 AM
To: Jeff Smith
Subject: Watauga Co. LF Sample Kit Order

Jeff,

Never too early to begin prep for the next semiannual event. Would you mind sending an e-mail with any changes / updates so that I may begin putting this kit together?

Thanks,
Ken

0903084

COMPUCHEM

| | |
|--|---|
| Client: DRAPER | Project Manager: Cathy Dover |
| Project: WATAUGA COUNTY LANDFILL 6520-39 | Project Number: WATAUGA COUNTY LANDFILL 6520-39 |
| SDG: 0903084 CASE: | Status: Reported |

| | |
|--|---|
| Report To: DRAPER JANET FRAZIER 2206 SOUTH MAIN STREET BLACKSBURG, VA 24060 Phone: (540)552-0044 Fax: - | Invoice To: WATAUGA COUNTY, NC MR. J.V. POLTER 842 WESTKING STREET/COURTHOUSE, SUITE 1 BOONE, NC 28607 Phone :- Fax: - |
|--|---|

| | |
|---|----------------------------------|
| Date Due: 04/02/2009 00:00 (20 day TAT) | Date Received: 03/13/2009 12:21 |
| Received By: Cathy Dover | Date Logged In: 03/13/2009 12:21 |
| Logged In By: Cathy Dover | |

| | | | | |
|--|-------------|-------------------------|----------------------|------------------------------|
| J & B Flags?: YES | TICS?:EPA-1 | Spike Level: FULL Spike | Deliverable: Style 9 | EDD Format(36) DRAPER ACCESS |
| USE 0903084-01 (MW-3) FOR QC VOC 8260B 25 ML LIST=PPS897O.SUB*ILM04.1 MTL=Ba,Fe,Cr,Co,Ni & V*STYLE 9; RPT. Js, FULL SPIKE | | | | |

| Analysis | Due | TAT | Expires | Received | Comments |
|--|------------------|-----|------------------|------------------|-------------------|
| 0903084-01 MW-3 [Water] Sampled 03/12/2009 13:20 Eastern | | | | | USE FOR QC |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 13:20 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:20 | 03/13/2009 09:45 | |
| 0903084-02 MW-2 [Water] Sampled 03/12/2009 12:15 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 12:15 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 12:15 | 03/13/2009 09:45 | |
| 0903084-03 MW-8 [Water] Sampled 03/12/2009 12:40 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 12:40 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 12:40 | 03/13/2009 09:45 | |
| 0903084-04 MW-9 [Water] Sampled 03/12/2009 11:40 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 11:40 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 11:40 | 03/13/2009 09:45 | |
| 0903084-05 MW-12 [Water] Sampled 03/12/2009 13:45 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 13:45 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:45 | 03/13/2009 09:45 | |
| 0903084-06 MW-17 [Water] Sampled 03/12/2009 13:05 Eastern | | | | | |
| ILM04.1 METALS | 04/02/2009 16:00 | 20 | 09/08/2009 13:05 | 03/13/2009 09:45 | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:05 | 03/13/2009 09:45 | |

0903084

COMPUCHEM

| | |
|--|---|
| Client: DRAPER | Project Manager: Cathy Dover |
| Project: WATAUGA COUNTY LANDFILL 6520-39 | Project Number: WATAUGA COUNTY LANDFILL 6520-39 |
| SDG: 0903084 CASE: | Status: Batched |

| Analysis | Due | TAT | Expires | Comments |
|--|------------------|-----|------------------|------------------|
| 0903084-07 TRIP BLANK [Water] Sampled 03/12/2009 13:05 Eastern | | | | |
| VOA-8260B 25ML | 04/02/2009 16:00 | 20 | 03/26/2009 13:05 | 03/13/2009 09:45 |

VOA Internal Chain of Custody Sheet

Matrix Water

Batch: 9031334

Status: Batched

Analysis: VOA-8260B 25ML

| Lab Id | Client Id | Received | Container | Extraction |
|--------------|------------|----------|-----------------------|------------|
| 0903084-01 A | MW-3 | 03/13/09 | 01b_40mL VOA, cool, F | 8260B 25ML |
| 0903084-02 A | MW-2 | 03/13/09 | 01b_40mL VOA, cool, F | 8260B 25ML |
| 0903084-03 A | MW-8 | 03/13/09 | 01b_40mL VOA, cool, F | 8260B 25ML |
| 0903084-04 A | MW-9 | 03/13/09 | 01b_40mL VOA, cool, F | 8260B 25ML |
| 0903084-05 A | MW-12 | 03/13/09 | 01b_40mL VOA, cool, F | 8260B 25ML |
| 0903084-06 A | MW-17 | 03/13/09 | 01b_40mL VOA, cool, F | 8260B 25ML |
| 0903084-07 A | TRIP BLANK | 03/13/09 | 01b_40mL VOA, cool, F | 8260B 25ML |

Internal Chain of Custody

Status: Batched

| Received | Container |
|----------|-----------------------|
| 03/13/09 | 01b_40mL VOA, cool, F |

Internal Chain of Custody

Status: Batched

| Received | Container |
|----------|-----------------------|
| 03/13/09 | 01b_40mL VOA, cool, F |

| | | | |
|----------------------------|---------------------|------------------------|---------------------|
| Relinquished By <u>#2B</u> | Date <u>3-19-09</u> | Received By <u>JAO</u> | Date <u>3-19-09</u> |
| Relinquished By <u>JAO</u> | Date <u>3-19-09</u> | Received By <u>#2B</u> | Date <u>3-19-09</u> |
| Relinquished By <u>#2</u> | Date <u>3-19-09</u> | Received By <u>B</u> | Date <u>3-19-09</u> |
| Relinquished By <u>B</u> | Date <u>3-19-09</u> | Received By <u>#2</u> | Date <u>3-19-09</u> |
| Relinquished By <u>#2B</u> | Date <u>3-20-09</u> | Received By <u>JAO</u> | Date <u>3-20-09</u> |
| Relinquished By <u>JAO</u> | Date <u>3-20-09</u> | Received By <u>#2B</u> | Date <u>3-20-09</u> |
| Relinquished By | Date | Received By | Date |

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE : LIBRTY

METHOD: 8260B

CASE # : _____

SDG # : 0903084

1. QC Summary

- a. Surrogate Recovery Summary (Form II VOA)

- b. Spike Summary - MS / MSD / LCS
(Form III VOA)

- c. Method Blank Summary (Form IV VOA)

- d. GC/MS Instrument Performance Check
(Form V VOA)

- e. Internal Standard Area and RT Summary
(Form VIII VOA)

a. Surrogate Recovery Summary

(Form II VOA)

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| | CLIENT SAMPLE NO. | SMC1 (DBF) # | SMC2 (DCE) # | SMC3 (TOL) # | SMC4 (BFB) # | TOT OUT |
|----|----------------------|-----------------|-----------------|-----------------|-----------------|------------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | VBLKHB | 111 | 96 | 106 | 87 | 0 |
| 02 | VHBLCS | 108 | 95 | 99 | 82 | 0 |
| 03 | VHBLCS | 116 | 100 | 106 | 86 | 0 |
| 04 | MW-3 | 115 | 100 | 117 | 95 | 0 |
| 05 | MW-2 | 121 | 109 | 113 | 95 | 0 |
| 06 | MW-8 | 123 | 112 | 119 | 96 | 0 |
| 07 | MW-9 | 124 | 114 | 113 | 88 | 0 |
| 08 | MW-12 | 126 | 115 | 107 | 93 | 0 |
| 09 | VBLKDD | 120 | 99 | 105 | 87 | 0 |
| 10 | VDDLCS | 117 | 102 | 98 | 80 | 0 |
| 11 | VDDLCS | 120 | 98 | 99 | 83 | 0 |
| 12 | MW-17 | 106 | 83 | 102 | 83 | 0 |
| 13 | MW-12DL | 112 | 94 | 102 | 85 | 0 |
| 14 | MW-2DL | 121 | 111 | 107 | 82 | 0 |
| 15 | MW-3MS | 110 | 96 | 87 | 70 | 0 |
| 16 | MW-3MSD | 111 | 96 | 93 | 81 | 0 |
| 17 | VBLKHE | 108 | 106 | 116 | 112 | 0 |
| 18 | VHELCS | 96 | 96 | 96 | 94 | 0 |
| 19 | TRIP BLANK | 123 | 125 | 116 | 105 | 0 |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |

QC LIMITS

SMC1 (DBF) = Dibromofluoromethane (65-150)
 SMC2 (DCE) = 1,2-Dichloroethane-d4 (59-150)
 SMC3 (TOL) = Toluene-d8 (61-145)
 SMC4 (BFB) = Bromofluorobenzene (63-143)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

b. Spike Summary - MS / MSD / LCS
(Form III VOA)

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------|-----------------------------|-------------------------|------------|-----------------|
| Dichlorodifluoromethane | 5 | 0.0 | 5.624 | 112 | 50-150 |
| Chloromethane | 5 | 0.1824 | 5.923 | 115 | 50-141 |
| Vinyl Chloride | 5 | 0.1409 | 6.271 | 123 | 49-142 |
| Bromomethane | 5 | 0.0 | 5.902 | 118 | 54-150 |
| Chloroethane | 5 | 2.422 | 8.001 | 112 | 61-150 |
| Trichlorofluoromethane | 5 | 0.1147 | 6.431 | 126 | 59-150 |
| Acrolein | 50 | 0.0 | 39.31 | 79 | 50-150 |
| 1,1-Dichloroethene | 5 | 0.0 | 5.583 | 112 | 50-150 |
| Iodomethane | 5 | 0.0 | 5.298 | 106 | 50-150 |
| Carbon disulfide | 5 | 0.0 | 6.056 | 121 | 50-150 |
| Acetone | 25 | 2.484 | 19.51 | 68 | 50-142 |
| 3-Chloropropene | 5 | 0.0 | 4.252 | 85 | 50-150 |
| Acetonitrile | 5 | 0.0 | 4.331 | 87 | 20-150 |
| Methylene Chloride | 5 | 0.2473 | 6.029 | 116 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 0.2 | 6.4 | 124 | 60-143 |
| Acrylonitrile | 50 | 0.0 | 49.83 | 100 | 50-147 |
| 1,1-Dichloroethane | 5 | 8.108 | 12.9 | 96 | 63-140 |
| Vinyl acetate | 10 | 0.0 | 9.772 | 98 | 50-150 |
| 2,2-Dichloropropane | 5 | 0.0 | 5.602 | 112 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 24 | 29 | 100 | 58-148 |
| 2-butanone | 25 | 0.0 | 20.61 | 82 | 50-150 |
| Propionitrile | 250 | 0.0 | 253 | 101 | 50-150 |
| Bromochloromethane | 5 | 0.0 | 6.418 | 128 | 50-150 |
| Methacrylonitrile | 50 | 0.0 | 44.82 | 90 | 50-150 |
| Chloroform | 5 | 0.0 | 6.062 | 121 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 0.0 | 5.872 | 117 | 58-150 |
| Carbon Tetrachloride | 5 | 0.0 | 5.888 | 118 | 50-150 |
| 1,1-dichloropropene | 5 | 0.0 | 5.456 | 109 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|-------------------------------|------------------|-----------------------|
| Benzene | 5 | 0.0 | 5.793 | 116 | 76-134 |
| 1,2-Dichloroethane | 5 | 0.0 | 5.778 | 116 | 58-143 |
| Isobutyl alcohol | 250 | 0.0 | 204.4 | 82 | 50-150 |
| Trichloroethene | 5 | 2.517 | 8.334 | 116 | 71-143 |
| 1,2-Dichloropropane | 5 | 0.2592 | 6.091 | 117 | 59-138 |
| Dibromomethane | 5 | 0.0 | 6.469 | 129 | 56-150 |
| Methylmethacrylate | 50 | 0.0 | 53.03 | 106 | 50-150 |
| Bromodichloromethane | 5 | 0.0 | 5.592 | 112 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 0.0 | 5.029 | 101 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 0.0 | 19.42 | 78 | 50-145 |
| Toluene | 5 | 0.0 | 5.154 | 103 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 0.0 | 4.985 | 100 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 0.0 | 5.587 | 112 | 60-133 |
| Ethylmethacrylate | 50 | 0.0 | 49.66 | 99 | 56-140 |
| Tetrachloroethene | 5 | 0.9088 | 6.436 | 111 | 59-150 |
| 1,3-Dichloropropane | 5 | 0.0 | 5.184 | 104 | 66-128 |
| 2-hexanone | 25 | 0.0 | 17.59 | 70 | 50-142 |
| Dibromochloromethane | 5 | 0.0 | 5.489 | 110 | 69-136 |
| Chlorobenzene | 5 | 0.0 | 5.493 | 110 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 0.0 | 5.669 | 113 | 71-134 |
| Ethylbenzene | 5 | 0.0 | 5.232 | 105 | 63-136 |
| Styrene | 5 | 0.0 | 5.123 | 102 | 62-133 |
| Bromoform | 5 | 0.0 | 5.633 | 113 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 0.0 | 5.658 | 113 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 0.0 | 4.625 | 93 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 0.0 | 17.13 | 86 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 0.0 | 4.993 | 100 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 0.0 | 4.88 | 98 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|-----------------------------------|-------------------------------|------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2-Dichlorobenzene | 5 | 0.0 | 4.987 | 100 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 0.0 | 4.317 | 86 | 31-140 |
| Hexachlorobutadiene | 5 | 0.0 | 5.349 | 107 | 44-135 |
| Naphthalene | 5 | 0.0 | 3.521 | 70 | 10-145 |
| Xylene (total) | 15 | 0.0 | 16.64 | 111 | 62-136 |
| Chloroprene | 5 | 0.0 | 4.678 | 94 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 5 | 5.452 | 109 | 3 | 25 | 50-150 |
| Chloromethane | 5 | 5.434 | 105 | 9 | 25 | 50-141 |
| Vinyl Chloride | 5 | 6.132 | 120 | 2 | 25 | 49-142 |
| Bromomethane | 5 | 6.107 | 122 | 3 | 25 | 54-150 |
| Chloroethane | 5 | 7.788 | 107 | 3 | 25 | 61-150 |
| Trichlorofluoromethane | 5 | 6.039 | 118 | 6 | 25 | 59-150 |
| Acrolein | 50 | 39.16 | 78 | 0 | 25 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.548 | 111 | 1 | 14 | 50-150 |
| Iodomethane | 5 | 5.335 | 107 | 1 | 25 | 50-150 |
| Carbon disulfide | 5 | 5.724 | 114 | 6 | 25 | 50-150 |
| Acetone | 25 | 19.23 | 67 | 1 | 25 | 50-142 |
| 3-Chloropropene | 5 | 4.174 | 83 | 2 | 25 | 50-150 |
| Acetonitrile | 5 | 4.236 | 85 | 2 | 40 | 20-150 |
| Methylene Chloride | 5 | 5.904 | 113 | 2 | 25 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 6.3 | 122 | 2 | 25 | 60-143 |
| Acrylonitrile | 50 | 47.76 | 96 | 4 | 25 | 50-147 |
| 1,1-Dichloroethane | 5 | 12.27 | 83 | 5 | 25 | 63-140 |
| Vinyl acetate | 10 | 8.93 | 89 | 9 | 25 | 50-150 |
| 2,2-Dichloropropane | 5 | 5.255 | 105 | 6 | 25 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 28 | 80 | 4 | 25 | 58-148 |
| 2-butanone | 25 | 19.93 | 80 | 3 | 25 | 50-150 |
| Propionitrile | 250 | 247.1 | 99 | 2 | 25 | 50-150 |
| Bromochloromethane | 5 | 6.068 | 121 | 6 | 25 | 50-150 |
| Methacrylonitrile | 50 | 43.53 | 87 | 3 | 25 | 50-150 |
| Chloroform | 5 | 5.732 | 115 | 6 | 25 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.521 | 110 | 6 | 25 | 58-150 |
| Carbon Tetrachloride | 5 | 5.701 | 114 | 3 | 25 | 50-150 |
| 1,1-dichloropropene | 5 | 5.105 | 102 | 7 | 25 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Benzene | 5 | 5.695 | 114 | 2 | 11 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.487 | 110 | 5 | 25 | 58-143 |
| Isobutyl alcohol | 250 | 192.5 | 77 | 6 | 25 | 50-150 |
| Trichloroethene | 5 | 8.31 | 116 | 0 | 14 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.861 | 112 | 4 | 25 | 59-138 |
| Dibromomethane | 5 | 6.719 | 134 | 4 | 25 | 56-150 |
| Methylmethacrylate | 50 | 51.4 | 103 | 3 | 25 | 50-150 |
| Bromodichloromethane | 5 | 5.373 | 107 | 4 | 25 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 4.957 | 99 | 1 | 25 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 19.27 | 77 | 1 | 25 | 50-145 |
| Toluene | 5 | 5.08 | 102 | 1 | 13 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 5.075 | 102 | 2 | 25 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.471 | 109 | 2 | 25 | 60-133 |
| Ethylmethacrylate | 50 | 50.24 | 100 | 1 | 25 | 56-140 |
| Tetrachloroethene | 5 | 6.472 | 111 | 1 | 25 | 59-150 |
| 1,3-Dichloropropane | 5 | 5.326 | 107 | 3 | 25 | 66-128 |
| 2-hexanone | 25 | 18.88 | 76 | 7 | 25 | 50-142 |
| Dibromochloromethane | 5 | 5.354 | 107 | 2 | 25 | 69-136 |
| Chlorobenzene | 5 | 5.505 | 110 | 0 | 13 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 5.777 | 116 | 2 | 25 | 71-134 |
| Ethylbenzene | 5 | 5.248 | 105 | 0 | 25 | 63-136 |
| Styrene | 5 | 5.154 | 103 | 1 | 25 | 62-133 |
| Bromoform | 5 | 5.401 | 108 | 4 | 25 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 5.357 | 107 | 5 | 25 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 4.772 | 95 | 3 | 25 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 17.17 | 86 | 0 | 25 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 5.131 | 103 | 3 | 25 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.8 | 96 | 2 | 25 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - Sample No.: MW-3

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS | |
|------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| 1,2-Dichlorobenzene | 5 | 5.011 | 100 | 0 | 25 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.53 | 91 | 5 | 25 | 31-140 |
| Hexachlorobutadiene | 5 | 5.406 | 108 | 1 | 25 | 44-135 |
| Naphthalene | 5 | 3.777 | 76 | 7 | 25 | 10-145 |
| Xylene (total) | 15 | 16.45 | 110 | 1 | 25 | 62-136 |
| Chloroprene | 5 | 4.491 | 90 | 4 | 40 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 62 outside limits

Spike Recovery: 0 out of 124 outside limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VDDLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Dichlorodifluoromethane | 5 | | 5.101 | 102 | 50-150 |
| Chloromethane | 5 | | 4.8 | 96 | 50-141 |
| Vinyl Chloride | 5 | | 5.224 | 104 | 49-142 |
| Bromomethane | 5 | | 5.061 | 101 | 54-150 |
| Chloroethane | 5 | | 5.904 | 118 | 61-150 |
| Trichlorofluoromethane | 5 | | 5.958 | 119 | 59-150 |
| Acrolein | 50 | | 37.96 | 76 | 50-150 |
| 1,1-Dichloroethene | 5 | | 5.262 | 105 | 50-150 |
| Iodomethane | 5 | | 5.108 | 102 | 50-150 |
| Carbon disulfide | 5 | | 5.391 | 108 | 50-150 |
| Acetone | 25 | | 22.42 | 90 | 50-142 |
| 3-Chloropropene | 5 | | 4.075 | 81 | 50-150 |
| Acetonitrile | 5 | | 4.161 | 83 | 20-150 |
| Methylene Chloride | 5 | | 5.278 | 106 | 50-149 |
| trans-1,2-Dichloroethen | 5 | | 5.6 | 112 | 60-143 |
| Acrylonitrile | 50 | | 45.49 | 91 | 50-147 |
| 1,1-Dichloroethane | 5 | | 5.238 | 105 | 63-140 |
| Vinyl acetate | 10 | | 8.773 | 88 | 50-150 |
| 2,2-Dichloropropane | 5 | | 4.882 | 98 | 51-150 |
| cis-1,2-Dichloroethene | 5 | | 5.4 | 108 | 58-148 |
| 2-butanone | 25 | | 19.37 | 77 | 50-150 |
| Propionitrile | 250 | | 238.1 | 95 | 50-150 |
| Bromochloromethane | 5 | | 5.809 | 116 | 50-150 |
| Methacrylonitrile | 50 | | 42.21 | 84 | 50-150 |
| Chloroform | 5 | | 5.47 | 109 | 57-146 |
| 1,1,1-Trichloroethane | 5 | | 5.189 | 104 | 58-150 |
| Carbon Tetrachloride | 5 | | 5.377 | 108 | 50-150 |
| 1,1-dichloropropene | 5 | | 4.798 | 96 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDDLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Benzene | 5 | | 5.309 | 106 | 76-134 |
| 1,2-Dichloroethane | 5 | | 5.043 | 101 | 58-143 |
| Isobutyl alcohol | 250 | | 176.3 | 71 | 50-150 |
| Trichloroethene | 5 | | 5.288 | 106 | 71-143 |
| 1,2-Dichloropropane | 5 | | 5.215 | 104 | 59-138 |
| Dibromomethane | 5 | | 6.053 | 121 | 56-150 |
| Methylmethacrylate | 50 | | 48.84 | 98 | 50-150 |
| Bromodichloromethane | 5 | | 4.995 | 100 | 63-139 |
| cis-1,3-Dichloropropene | 5 | | 4.876 | 98 | 56-142 |
| 4-Methyl-2-pentanone | 25 | | 18.89 | 76 | 50-145 |
| Toluene | 5 | | 4.74 | 95 | 70-137 |
| trans-1,3-Dichloroprope | 5 | | 4.742 | 95 | 61-135 |
| 1,1,2-Trichloroethane | 5 | | 5.042 | 101 | 60-133 |
| Ethylmethacrylate | 50 | | 46.99 | 94 | 56-140 |
| Tetrachloroethene | 5 | | 5.355 | 107 | 59-150 |
| 1,3-Dichloropropane | 5 | | 4.931 | 99 | 66-128 |
| 2-hexanone | 25 | | 17.67 | 71 | 50-142 |
| Dibromochloromethane | 5 | | 4.982 | 100 | 69-136 |
| Chlorobenzene | 5 | | 5.102 | 102 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | | 5.346 | 107 | 71-134 |
| Ethylbenzene | 5 | | 4.873 | 97 | 63-136 |
| Styrene | 5 | | 4.781 | 96 | 62-133 |
| Bromoform | 5 | | 5.136 | 103 | 58-144 |
| 1,2,3-Trichloropropane | 5 | | 5.396 | 108 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | | 4.416 | 88 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | | 16.63 | 83 | 50-150 |
| 1,3-Dichlorobenzene | 5 | | 4.782 | 96 | 61-126 |
| 1,4-Dichlorobenzene | 5 | | 4.655 | 93 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VDDLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2-Dichlorobenzene | 5 | | 4.657 | 93 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | | 4.551 | 91 | 31-140 |
| Hexachlorobutadiene | 5 | | 4.891 | 98 | 44-135 |
| Naphthalene | 5 | | 3.645 | 73 | 10-145 |
| Xylene (total) | 15 | | 15.61 | 104 | 62-136 |
| Chloroprene | 5 | | 4.265 | 85 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDDLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 5 | 5.115 | 102 | 0 | 25 | 50-150 |
| Chloromethane | 5 | 4.881 | 98 | 2 | 25 | 50-141 |
| Vinyl Chloride | 5 | 5.419 | 108 | 4 | 25 | 49-142 |
| Bromomethane | 5 | 4.932 | 99 | 2 | 25 | 54-150 |
| Chloroethane | 5 | 5.362 | 107 | 10 | 25 | 61-150 |
| Trichlorofluoromethane | 5 | 5.756 | 115 | 3 | 25 | 59-150 |
| Acrolein | 50 | 39.21 | 78 | 3 | 25 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.279 | 106 | 1 | 14 | 50-150 |
| Iodomethane | 5 | 5.409 | 108 | 6 | 25 | 50-150 |
| Carbon disulfide | 5 | 5.435 | 109 | 1 | 25 | 50-150 |
| Acetone | 25 | 23.2 | 93 | 3 | 25 | 50-142 |
| 3-Chloropropene | 5 | 3.989 | 80 | 1 | 25 | 50-150 |
| Acetonitrile | 5 | 4.117 | 82 | 1 | 40 | 20-150 |
| Methylene Chloride | 5 | 5.4 | 108 | 2 | 25 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 5.6 | 112 | 0 | 25 | 60-143 |
| Acrylonitrile | 50 | 46.04 | 92 | 1 | 25 | 50-147 |
| 1,1-Dichloroethane | 5 | 5.163 | 103 | 2 | 25 | 63-140 |
| Vinyl acetate | 10 | 8.712 | 87 | 1 | 25 | 50-150 |
| 2,2-Dichloropropane | 5 | 4.876 | 98 | 0 | 25 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 5.6 | 112 | 4 | 25 | 58-148 |
| 2-butanone | 25 | 20.14 | 81 | 5 | 25 | 50-150 |
| Propionitrile | 250 | 242.3 | 97 | 2 | 25 | 50-150 |
| Bromochloromethane | 5 | 5.982 | 120 | 3 | 25 | 50-150 |
| Methacrylonitrile | 50 | 41.49 | 83 | 1 | 25 | 50-150 |
| Chloroform | 5 | 5.367 | 107 | 2 | 25 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.161 | 103 | 1 | 25 | 58-150 |
| Carbon Tetrachloride | 5 | 5.382 | 108 | 0 | 25 | 50-150 |
| 1,1-dichloropropene | 5 | 4.935 | 99 | 3 | 25 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDDLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| ----- | ----- | ----- | ----- | ----- | RPD | REC. |
| Benzene | 5 | 5.237 | 105 | 1 | 11 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.068 | 101 | 0 | 25 | 58-143 |
| Isobutyl alcohol | 250 | 186.6 | 75 | 5 | 25 | 50-150 |
| Trichloroethene | 5 | 5.282 | 106 | 0 | 14 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.126 | 103 | 1 | 25 | 59-138 |
| Dibromomethane | 5 | 6.255 | 125 | 3 | 25 | 56-150 |
| Methylmethacrylate | 50 | 49.37 | 99 | 1 | 25 | 50-150 |
| Bromodichloromethane | 5 | 5.181 | 104 | 4 | 25 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 4.783 | 96 | 2 | 25 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 19.24 | 77 | 1 | 25 | 50-145 |
| Toluene | 5 | 4.616 | 92 | 3 | 13 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 4.734 | 95 | 0 | 25 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.128 | 103 | 2 | 25 | 60-133 |
| Ethylmethacrylate | 50 | 47.17 | 94 | 0 | 25 | 56-140 |
| Tetrachloroethene | 5 | 5.226 | 105 | 2 | 25 | 59-150 |
| 1,3-Dichloropropane | 5 | 4.972 | 99 | 0 | 25 | 66-128 |
| 2-hexanone | 25 | 17.52 | 70 | 1 | 25 | 50-142 |
| Dibromochloromethane | 5 | 5.082 | 102 | 2 | 25 | 69-136 |
| Chlorobenzene | 5 | 5.062 | 101 | 1 | 13 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 5.129 | 103 | 4 | 25 | 71-134 |
| Ethylbenzene | 5 | 4.731 | 95 | 2 | 25 | 63-136 |
| Styrene | 5 | 4.687 | 94 | 2 | 25 | 62-133 |
| Bromoform | 5 | 5.08 | 102 | 1 | 25 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 5.559 | 111 | 3 | 25 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 4.466 | 89 | 1 | 25 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 16.39 | 82 | 1 | 25 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 4.495 | 90 | 6 | 25 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.606 | 92 | 1 | 25 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VDDLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VDDLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| 1,2-Dichlorobenzene | 5 | 4.584 | 92 | 1 | 25 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.32 | 86 | 6 | 25 | 31-140 |
| Hexachlorobutadiene | 5 | 4.713 | 94 | 4 | 25 | 44-135 |
| Naphthalene | 5 | 3.661 | 73 | 0 | 25 | 10-145 |
| Xylene (total) | 15 | 15.03 | 100 | 4 | 25 | 62-136 |
| Chloroprene | 5 | 4.311 | 86 | 1 | 40 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 62 outside limits

Spike Recovery: 0 out of 124 outside limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHBLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Dichlorodifluoromethane | 5 | | 5.285 | 106 | 50-150 |
| Chloromethane | 5 | | 4.741 | 95 | 50-141 |
| Vinyl Chloride | 5 | | 5.592 | 112 | 49-142 |
| Bromomethane | 5 | | 5.406 | 108 | 54-150 |
| Chloroethane | 5 | | 5.279 | 106 | 61-150 |
| Trichlorofluoromethane | 5 | | 5.937 | 119 | 59-150 |
| Acrolein | 50 | | 44.9 | 90 | 50-150 |
| 1,1-Dichloroethene | 5 | | 5.476 | 110 | 50-150 |
| Iodomethane | 5 | | 5.147 | 103 | 50-150 |
| Carbon disulfide | 5 | | 5.498 | 110 | 50-150 |
| Acetone | 25 | | 20.07 | 80 | 50-142 |
| 3-Chloropropene | 5 | | 4.492 | 90 | 50-150 |
| Acetonitrile | 5 | | 4.493 | 90 | 20-150 |
| Methylene Chloride | 5 | | 5.478 | 110 | 50-149 |
| trans-1,2-Dichloroethen | 5 | | 5.6 | 112 | 60-143 |
| Acrylonitrile | 50 | | 48.4 | 97 | 50-147 |
| 1,1-Dichloroethane | 5 | | 5.418 | 108 | 63-140 |
| Vinyl acetate | 10 | | 8.961 | 90 | 50-150 |
| 2,2-Dichloropropane | 5 | | 5.066 | 101 | 51-150 |
| cis-1,2-Dichloroethene | 5 | | 5.5 | 110 | 58-148 |
| 2-butanone | 25 | | 20.41 | 82 | 50-150 |
| Propionitrile | 250 | | 243.7 | 97 | 50-150 |
| Bromochloromethane | 5 | | 5.851 | 117 | 50-150 |
| Methacrylonitrile | 50 | | 45.47 | 91 | 50-150 |
| Chloroform | 5 | | 5.423 | 108 | 57-146 |
| 1,1,1-Trichloroethane | 5 | | 5.016 | 100 | 58-150 |
| Carbon Tetrachloride | 5 | | 5.002 | 100 | 50-150 |
| 1,1-dichloropropene | 5 | | 4.745 | 95 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHBLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Benzene | 5 | | 5.343 | 107 | 76-134 |
| 1,2-Dichloroethane | 5 | | 5.27 | 105 | 58-143 |
| Isobutyl alcohol | 250 | | 194.1 | 78 | 50-150 |
| Trichloroethene | 5 | | 5.174 | 103 | 71-143 |
| 1,2-Dichloropropane | 5 | | 5.28 | 106 | 59-138 |
| Dibromomethane | 5 | | 6.264 | 125 | 56-150 |
| Methylmethacrylate | 50 | | 48.56 | 97 | 50-150 |
| Bromodichloromethane | 5 | | 5.139 | 103 | 63-139 |
| cis-1,3-Dichloropropene | 5 | | 4.943 | 99 | 56-142 |
| 4-Methyl-2-pentanone | 25 | | 20.68 | 83 | 50-145 |
| Toluene | 5 | | 4.709 | 94 | 70-137 |
| trans-1,3-Dichloroprope | 5 | | 4.959 | 99 | 61-135 |
| 1,1,2-Trichloroethane | 5 | | 5.328 | 107 | 60-133 |
| Ethylmethacrylate | 50 | | 49.03 | 98 | 56-140 |
| Tetrachloroethene | 5 | | 4.669 | 93 | 59-150 |
| 1,3-Dichloropropane | 5 | | 5.26 | 105 | 66-128 |
| 2-hexanone | 25 | | 18.92 | 76 | 50-142 |
| Dibromochloromethane | 5 | | 5.188 | 104 | 69-136 |
| Chlorobenzene | 5 | | 4.919 | 98 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | | 5.09 | 102 | 71-134 |
| Ethylbenzene | 5 | | 4.371 | 87 | 63-136 |
| Styrene | 5 | | 4.479 | 90 | 62-133 |
| Bromoform | 5 | | 5.128 | 103 | 58-144 |
| 1,2,3-Trichloropropane | 5 | | 5.052 | 101 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | | 4.576 | 92 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | | 18.13 | 91 | 50-150 |
| 1,3-Dichlorobenzene | 5 | | 4.25 | 85 | 61-126 |
| 1,4-Dichlorobenzene | 5 | | 4.232 | 85 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHBLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2-Dichlorobenzene | 5 | | 4.435 | 89 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | | 4.082 | 82 | 31-140 |
| Hexachlorobutadiene | 5 | | 4.589 | 92 | 44-135 |
| Naphthalene | 5 | | 3.734 | 75 | 10-145 |
| Xylene (total) | 15 | | 13.69 | 91 | 62-136 |
| Chloroprene | 5 | | 4.576 | 92 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHBLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|--------------------------------|-------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 5 | 5.365 | 107 | 1 | 25 | 50-150 |
| Chloromethane | 5 | 4.876 | 98 | 3 | 25 | 50-141 |
| Vinyl Chloride | 5 | 5.686 | 114 | 2 | 25 | 49-142 |
| Bromomethane | 5 | 5.256 | 105 | 3 | 25 | 54-150 |
| Chloroethane | 5 | 5.827 | 117 | 10 | 25 | 61-150 |
| Trichlorofluoromethane | 5 | 6.014 | 120 | 1 | 25 | 59-150 |
| Acrolein | 50 | 47.09 | 94 | 4 | 25 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.618 | 112 | 2 | 14 | 50-150 |
| Iodomethane | 5 | 5.414 | 108 | 5 | 25 | 50-150 |
| Carbon disulfide | 5 | 5.557 | 111 | 1 | 25 | 50-150 |
| Acetone | 25 | 18.97 | 76 | 5 | 25 | 50-142 |
| 3-Chloropropene | 5 | 4.577 | 92 | 2 | 25 | 50-150 |
| Acetonitrile | 5 | 4.66 | 93 | 3 | 40 | 20-150 |
| Methylene Chloride | 5 | 5.431 | 109 | 1 | 25 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 5.7 | 114 | 2 | 25 | 60-143 |
| Acrylonitrile | 50 | 49.25 | 99 | 2 | 25 | 50-147 |
| 1,1-Dichloroethane | 5 | 5.4 | 108 | 0 | 25 | 63-140 |
| Vinyl acetate | 10 | 9.103 | 91 | 1 | 25 | 50-150 |
| 2,2-Dichloropropane | 5 | 5.077 | 102 | 1 | 25 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 5.7 | 114 | 4 | 25 | 58-148 |
| 2-butanone | 25 | 21.38 | 86 | 5 | 25 | 50-150 |
| Propionitrile | 250 | 246.8 | 99 | 2 | 25 | 50-150 |
| Bromochloromethane | 5 | 5.931 | 119 | 2 | 25 | 50-150 |
| Methacrylonitrile | 50 | 45.14 | 90 | 1 | 25 | 50-150 |
| Chloroform | 5 | 5.461 | 109 | 1 | 25 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.109 | 102 | 2 | 25 | 58-150 |
| Carbon Tetrachloride | 5 | 5.206 | 104 | 4 | 25 | 50-150 |
| 1,1-dichloropropene | 5 | 4.825 | 97 | 2 | 25 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHBLCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|-----------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| ----- | ----- | ----- | ----- | ----- | RPD | REC. |
| Benzene | 5 | 5.389 | 108 | 1 | 11 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.199 | 104 | 1 | 25 | 58-143 |
| Isobutyl alcohol | 250 | 200.1 | 80 | 3 | 25 | 50-150 |
| Trichloroethene | 5 | 5.517 | 110 | 7 | 14 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.326 | 107 | 1 | 25 | 59-138 |
| Dibromomethane | 5 | 6.13 | 123 | 2 | 25 | 56-150 |
| Methylmethacrylate | 50 | 49.46 | 99 | 2 | 25 | 50-150 |
| Bromodichloromethane | 5 | 5.175 | 104 | 1 | 25 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 4.944 | 99 | 0 | 25 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 21.07 | 84 | 1 | 25 | 50-145 |
| Toluene | 5 | 4.909 | 98 | 4 | 13 | 70-137 |
| trans-1,3-Dichloropropene | 5 | 4.981 | 100 | 1 | 25 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.38 | 108 | 1 | 25 | 60-133 |
| Ethylmethacrylate | 50 | 50.51 | 101 | 3 | 25 | 56-140 |
| Tetrachloroethene | 5 | 5.05 | 101 | 8 | 25 | 59-150 |
| 1,3-Dichloropropane | 5 | 5.12 | 102 | 3 | 25 | 66-128 |
| 2-hexanone | 25 | 20.13 | 81 | 6 | 25 | 50-142 |
| Dibromochloromethane | 5 | 5.363 | 107 | 3 | 25 | 69-136 |
| Chlorobenzene | 5 | 5.239 | 105 | 7 | 13 | 74-136 |
| 1,1,1,2-Tetrachloroethane | 5 | 5.234 | 105 | 3 | 25 | 71-134 |
| Ethylbenzene | 5 | 4.786 | 96 | 10 | 25 | 63-136 |
| Styrene | 5 | 4.877 | 98 | 9 | 25 | 62-133 |
| Bromoform | 5 | 5.126 | 103 | 0 | 25 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 5.186 | 104 | 3 | 25 | 47-143 |
| 1,1,2,2-Tetrachloroethane | 5 | 4.56 | 91 | 1 | 25 | 43-139 |
| trans-1,4-dichloro-2-butene | 20 | 17.92 | 90 | 1 | 25 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 4.603 | 92 | 8 | 25 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.484 | 90 | 6 | 25 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHBLCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix Spike - EPA Sample No.: VHBLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| 1,2-Dichlorobenzene | 5 | 4.479 | 90 | 1 | 25 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.227 | 85 | 4 | 25 | 31-140 |
| Hexachlorobutadiene | 5 | 4.714 | 94 | 2 | 25 | 44-135 |
| Naphthalene | 5 | 3.701 | 74 | 1 | 25 | 10-145 |
| Xylene (total) | 15 | 15.4 | 103 | 12 | 25 | 62-136 |
| Chloroprene | 5 | 4.645 | 93 | 1 | 40 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 62 outside limits

Spike Recovery: 0 out of 124 outside limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHELCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== |
| Dichlorodifluoromethane | 5 | 7.403 | 148 | 50-150 |
| Chloromethane | 5 | 5.344 | 107 | 50-141 |
| Vinyl Chloride | 5 | 5.911 | 118 | 49-142 |
| Bromomethane | 5 | 5.305 | 106 | 54-150 |
| Chloroethane | 5 | 4.551 | 91 | 61-150 |
| Trichlorofluoromethane | 5 | 4.913 | 98 | 59-150 |
| Acrolein | 50 | 64.54 | 129 | 50-150 |
| 1,1-Dichloroethene | 5 | 5.218 | 104 | 50-150 |
| Iodomethane | 5 | 5.05 | 101 | 50-150 |
| Carbon disulfide | 5 | 5.149 | 103 | 50-150 |
| Acetone | 25 | 20.07 | 80 | 50-142 |
| 3-Chloropropene | 5 | 5.299 | 106 | 50-150 |
| Acetonitrile | 5 | 5.487 | 110 | 20-150 |
| Methylene Chloride | 5 | 5.132 | 103 | 50-149 |
| trans-1,2-Dichloroethen | 5 | 5.3 | 106 | 60-143 |
| Acrylonitrile | 100 | 103.2 | 103 | 50-147 |
| 1,1-Dichloroethane | 5 | 5.278 | 106 | 63-140 |
| Vinyl acetate | 20 | 21.57 | 108 | 50-150 |
| 2,2-Dichloropropane | 5 | 5.16 | 103 | 51-150 |
| cis-1,2-Dichloroethene | 5 | 5.4 | 108 | 58-148 |
| 2-butanone | 25 | 23.15 | 93 | 50-150 |
| Propionitrile | 250 | 257.4 | 103 | 50-150 |
| Bromochloromethane | 5 | 5.015 | 100 | 50-150 |
| Methacrylonitrile | 50 | 53.46 | 107 | 50-150 |
| Chloroform | 5 | 5.232 | 105 | 57-146 |
| 1,1,1-Trichloroethane | 5 | 5.376 | 108 | 58-150 |
| Carbon Tetrachloride | 5 | 5.469 | 109 | 50-150 |
| 1,1-dichloropropene | 5 | 5.605 | 112 | 55-145 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

| |
|--------|
| VHELCS |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|--------------------------------|-------------------|-----------------------|
| ===== | ===== | ===== | ===== | ===== |
| Benzene | 5 | 5.337 | 107 | 76-134 |
| 1,2-Dichloroethane | 5 | 5.136 | 103 | 58-143 |
| Isobutyl alcohol | 250 | 225.2 | 90 | 50-150 |
| Trichloroethene | 5 | 5.133 | 103 | 71-143 |
| 1,2-Dichloropropane | 5 | 5.32 | 106 | 59-138 |
| Dibromomethane | 5 | 4.891 | 98 | 56-150 |
| Methylmethacrylate | 50 | 53.87 | 108 | 50-150 |
| Bromodichloromethane | 5 | 5.402 | 108 | 63-139 |
| cis-1,3-Dichloropropene | 5 | 5.027 | 101 | 56-142 |
| 4-Methyl-2-pentanone | 25 | 24.91 | 100 | 50-145 |
| Toluene | 5 | 5.46 | 109 | 70-137 |
| trans-1,3-Dichloroprope | 5 | 4.821 | 96 | 61-135 |
| 1,1,2-Trichloroethane | 5 | 5.177 | 104 | 60-133 |
| Ethylmethacrylate | 50 | 55.04 | 110 | 56-140 |
| Tetrachloroethene | 5 | 5.123 | 102 | 59-150 |
| 1,3-Dichloropropane | 5 | 5.233 | 105 | 66-128 |
| 2-hexanone | 25 | 25.24 | 101 | 50-142 |
| Dibromochloromethane | 5 | 4.973 | 99 | 69-136 |
| Chlorobenzene | 5 | 5.163 | 103 | 74-136 |
| 1,1,1,2-Tetrachloroetha | 5 | 5.136 | 103 | 71-134 |
| Ethylbenzene | 5 | 5.411 | 108 | 63-136 |
| Styrene | 5 | 5.422 | 108 | 62-133 |
| Bromoform | 5 | 5.056 | 101 | 58-144 |
| 1,2,3-Trichloropropane | 5 | 4.998 | 100 | 47-143 |
| 1,1,2,2-Tetrachloroetha | 5 | 5.068 | 101 | 43-139 |
| trans-1,4-dichloro-2-bu | 20 | 18.69 | 93 | 50-150 |
| 1,3-Dichlorobenzene | 5 | 4.972 | 99 | 61-126 |
| 1,4-Dichlorobenzene | 5 | 4.414 | 88 | 59-126 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VHELCS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|------------------------|--------------------------|--------------------------------|-------------------|-----------------------|
| ----- | ----- | ----- | ----- | ----- |
| 1,2-Dichlorobenzene | 5 | 4.858 | 97 | 55-130 |
| 1,2,4-Trichlorobenzene | 5 | 4.943 | 99 | 31-140 |
| Hexachlorobutadiene | 5 | 6.028 | 121 | 44-135 |
| Naphthalene | 5 | 4.55 | 91 | 10-145 |
| Xylene (total) | 15 | 17.01 | 113 | 62-136 |
| Chloroprene | 5 | 5.545 | 111 | 59-148 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV VOA)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks, by instrument.

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

| |
|--------|
| VBLKHB |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Lab File ID: 9031905-BLK173

Lab Sample ID: 9031905-BLK1

Date Analyzed: 03/19/09

Time Analyzed: 1055

GC Column: SPB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5972HP73

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|------------|---------------|--------------|---------------|
| | ===== | ===== | ===== | ===== |
| 01 | VHBLCS | 9031905-BS1 | 9031905-BS17 | 1137 |
| 02 | VHBLCSD | 9031905-BSD1 | 9031905-BSD1 | 1206 |
| 03 | MW-3 | 0903084-01 | 0903084-0173 | 1828 |
| 04 | MW-2 | 0903084-02 | 0903084-0273 | 1857 |
| 05 | MW-8 | 0903084-03 | 0903084-0373 | 1927 |
| 06 | MW-9 | 0903084-04 | 0903084-0473 | 1957 |
| 07 | MW-12 | 0903084-05 | 0903084-0573 | 2026 |
| 08 | | | | |
| 09 | | | | |
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

| |
|--------|
| VBLKHE |
|--------|

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Lab File ID: 9032016-BLK1R73_D

Lab Sample ID: 9032016-BLK1

Date Analyzed: 03/20/09

Time Analyzed: 1639

GC Column: SPB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5972HP73

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|------------|---------------|--------------|---------------|
| | ===== | ===== | ===== | ===== |
| 01 | VHELCS | 9032016-BS1 | 9032016-BS17 | 1708 |
| 02 | TRIP BLANK | 0903084-07 | 0903084-07R7 | 2131 |
| 03 | | | | |
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COMMENTS:

d. GC/MS Instrument Performance Check (Form V VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Lab File ID: 9C16001-TUN173 BFB Injection Date: 03/16/09
 Instrument ID: 5972HP73 BFB Injection Time: 1003
 GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 18.5 |
| 75 | 30.0 - 60.0% of mass 95 | 41.8 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 83.0 |
| 175 | 5.0 - 9.0% of mass 174 | 6.2 (7.5)1 |
| 176 | 95.0 - 101.0% of mass 174 | 81.3 (98.0)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 (6.5)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD001 | 9C16001-CAL | 9C16001-CAL273 | 03/16/09 | 1056 |
| 02 | VSTD0.5 | 9C16001-CAL | 9C16001-CAL173 | 03/16/09 | 1126 |
| 03 | VSTD010 | 9C16001-CAL | 9C16001-CAL473 | 03/16/09 | 1155 |
| 04 | VSTD025 | 9C16001-CAL | 9C16001-CAL573 | 03/16/09 | 1224 |
| 05 | VSTD005 | 9C16001-CAL | 9C16001-CAL3R7 | 03/16/09 | 1253 |
| 06 | | | | | |
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903084

Lab File ID: 9C19002-TUN173

BFB Injection Date: 03/19/09

Instrument ID: 5972HP73

BFB Injection Time: 0929

GC Column: SPB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 18.1 |
| 75 | 30.0 - 60.0% of mass 95 | 41.1 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 87.6 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 (7.3)1 |
| 176 | 95.0 - 101.0% of mass 174 | 86.4 (98.7)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 (6.1)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD005 | 9C19002-CCV | 9C19002-CCV173 | 03/19/09 | 1009 |
| 02 | VBLKHB | 9031905-BLK | 9031905-BLK173 | 03/19/09 | 1055 |
| 03 | VHBLCS | 9031905-BS1 | 9031905-BS173 | 03/19/09 | 1137 |
| 04 | VHBLCS | 9031905-BSD | 9031905-BSD173 | 03/19/09 | 1206 |
| 05 | MW-3 | 0903084-01 | 0903084-0173 | 03/19/09 | 1828 |
| 06 | MW-2 | 0903084-02 | 0903084-0273 | 03/19/09 | 1857 |
| 07 | MW-8 | 0903084-03 | 0903084-0373 | 03/19/09 | 1927 |
| 08 | MW-9 | 0903084-04 | 0903084-0473 | 03/19/09 | 1957 |
| 09 | MW-12 | 0903084-05 | 0903084-0573 | 03/19/09 | 2026 |
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Lab File ID: 9C20003-TUN173 BFB Injection Date: 03/20/09
 Instrument ID: 5972HP73 BFB Injection Time: 1144
 GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 16.6 |
| 75 | 30.0 - 60.0% of mass 95 | 40.4 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.1 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 87.9 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 (7.3)1 |
| 176 | 95.0 - 101.0% of mass 174 | 85.9 (97.8)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.8 (6.7)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|---------------|----------------|---------------|---------------|
| 01 | VSTD001 | 9C20003-CAL | 9C20003-CAL273 | 03/20/09 | 1245 |
| 02 | VSTD0.5 | 9C20003-CAL | 9C20003-CAL173 | 03/20/09 | 1314 |
| 03 | VSTD010 | 9C20003-CAL | 9C20003-CAL473 | 03/20/09 | 1343 |
| 04 | VSTD025 | 9C20003-CAL | 9C20003-CAL573 | 03/20/09 | 1412 |
| 05 | VSTD005 | 9C20003-CAL | 9C20003-CAL3R2 | 03/20/09 | 1610 |
| 06 | VBLKHE | 9032016-BLK | 9032016-BLK1R7 | 03/20/09 | 1639 |
| 07 | VHELCS | 9032016-BS1 | 9032016-BS173 | 03/20/09 | 1708 |
| 08 | TRIP BLANK | 0903084-07 | 0903084-07R73 | 03/20/09 | 2131 |
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e. Internal Standard Area and RT Summary
(Form VIII VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Lab File ID (Standard): 9C19002-CCV173 Date Analyzed: 03/19/09
 Instrument ID: 5972HP73 Time Analyzed: 1009
 GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 (FBZ) AREA # | RT # | IS2 (CBZ) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|-------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 373571 | 10.25 | 254953 | 12.65 | 120341 | 14.41 |
| UPPER LIMIT | 747142 | 10.75 | 509906 | 13.15 | 240682 | 14.91 |
| LOWER LIMIT | 186785 | 9.75 | 127477 | 12.15 | 60171 | 13.91 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKHB | 356089 | 10.25 | 229447 | 12.67 | 100571 | 14.41 |
| 02 VHBLCS | 331177 | 10.25 | 223812 | 12.66 | 110343 | 14.41 |
| 03 VHBLCSD | 353825 | 10.25 | 238360 | 12.65 | 118432 | 14.41 |
| 04 MW-3 | 292819 | 10.27 | 176593 | 12.67 | 72671 | 14.41 |
| 05 MW-2 | 294418 | 10.26 | 185656 | 12.67 | 76797 | 14.41 |
| 06 MW-8 | 291766 | 10.25 | 179554 | 12.66 | 76452 | 14.41 |
| 07 MW-9 | 263153 | 10.25 | 171547 | 12.67 | 80593 | 14.41 |
| 08 MW-12 | 277240 | 10.25 | 184828 | 12.66 | 79578 | 14.41 |
| 09 | | | | | | |
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IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Lab File ID (Standard): 9C20003-CAL3R273 Date Analyzed: 03/20/09
 Instrument ID: 5972HP73 Time Analyzed: 1610
 GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 (FBZ) AREA # | RT # | IS2 (CBZ) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 359660 | 10.25 | 240864 | 12.65 | 111410 | 14.40 |
| UPPER LIMIT | 719320 | 10.75 | 481728 | 13.15 | 222820 | 14.90 |
| LOWER LIMIT | 179830 | 9.75 | 120432 | 12.15 | 55705 | 13.90 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKHE | 349884 | 10.25 | 218297 | 12.65 | 93053 | 14.39 |
| 02 VHELCS | 345699 | 10.25 | 238055 | 12.65 | 112897 | 14.39 |
| 03 TRIP BLANK | 271105 | 10.23 | 170654 | 12.65 | 73051 | 14.40 |
| 04 | | | | | | |
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| 20 | | | | | | |

IS1 (FBZ) = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I VOA and Form I VOA-TIC), followed by the raw data for volatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

- a. Target Analyte Results (Form I VOA)
Tabulated results (identification and quantitation) shall be included.
- b. Tentatively Identified Compounds (Form I VOA-TIC)
Lists the client specified number of organic compounds that are non-surrogate/non-internal standard compounds and are not listed on the target compound list. This form shall be included even if no compounds are found.
- c. Reconstructed Ion Chromatograms
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: Client Sample ID number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.
- d. Quantitation Report showing calculations for target analytes
 - Include a printout of the Enhanced Ion Current Profile (EICP) for all manual changes to all compounds, internal standards, and surrogate compounds.
- e. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes identified in the sample.
 - The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
 - The compound name must be clearly marked.
- f. Quantitation Report showing calculations for TICs
- g. Copies of mass spectra of organic compounds not listed on the target compound list (TICs) with associated best-match spectra.
 - The spectra shall be labeled as follows: Client Sample ID number, lab file ID, date and time of analysis, and instrument ID.
 - The compound name must be clearly marked.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-------|
| MW-12 |
|-------|

| | |
|----------------------------------|---------------------------------|
| Lab Name: COMPUCHEM | Method: 8260B |
| Lab Code: LIBRTY | Case No.: |
| Matrix: (soil/water) WATER | SAS No.: |
| Sample wt/vol: 25 (g/ml) ML | SDG No.: 0903084 |
| Level: (low/med) LOW | Lab Sample ID: 0903084-05 |
| % Moisture: not dec. _____ | Lab File ID: 0903084-0573 |
| GC Column: SPB-624 ID: 0.32 (mm) | Date Received: 03/13/09 |
| Soil Extract Volume: _____ (uL) | Date Analyzed: 03/19/09 |
| | Dilution Factor: 1.0 |
| | Soil Aliquot Volume: _____ (uL) |

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 2.9 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 9.9 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.32 | J |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.6 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.59 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 0.67 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 25 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 65 | E |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.65 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.36 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.65 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 5.1 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.89 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12

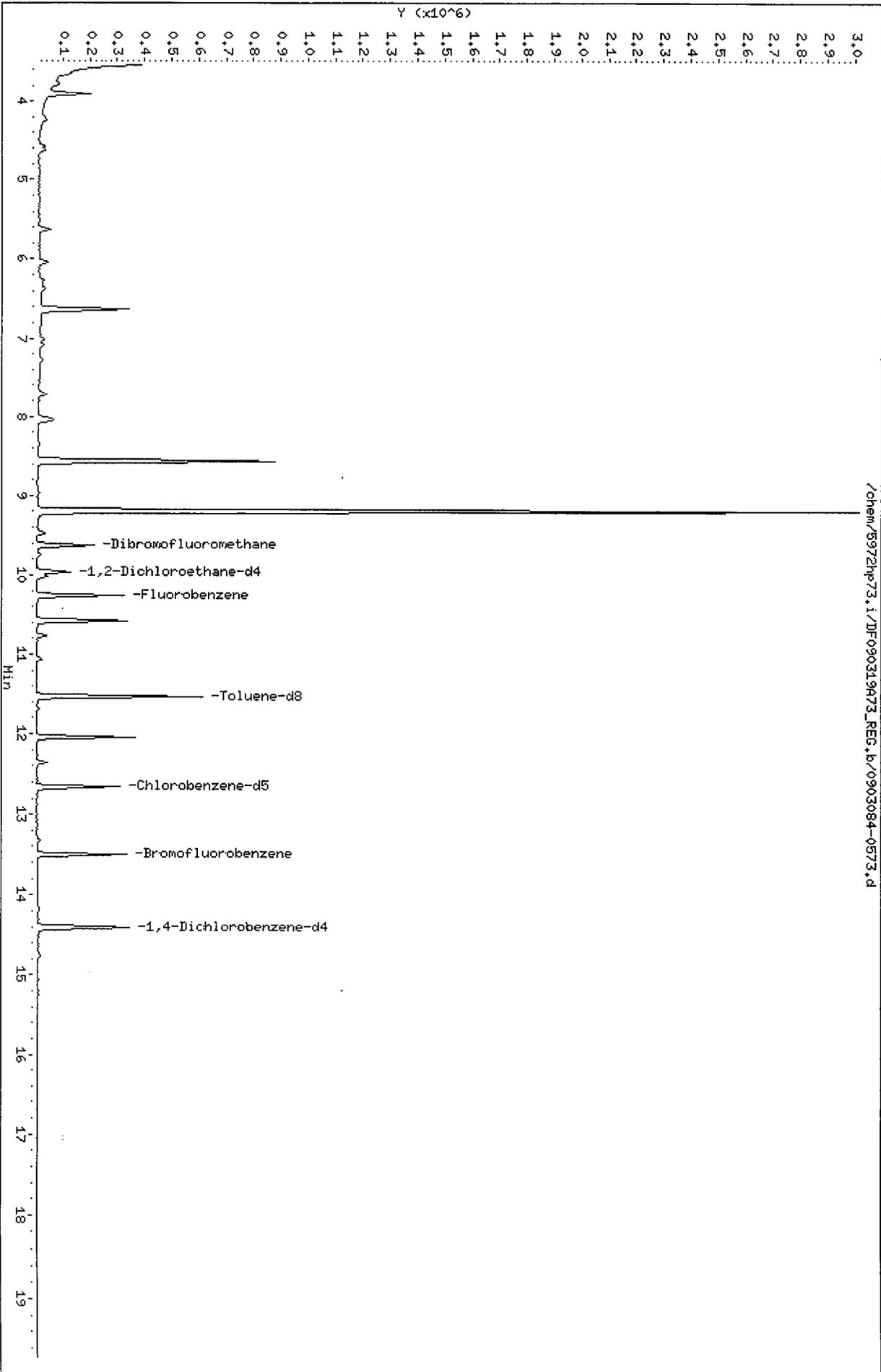
Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-05
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0573
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 4.6 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.35 | J |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF09030319A73_REG.b/0903084-0573.d
Date: 19-MAR-2009 20:26
Client ID: MW-12
Sample Info: 0903084-05:J40
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: J40
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d
 Report Date: 20-Mar-2009 18:23

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT
 Data file : /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d
 Lab Smp Id: 0903084-05 Client Smp ID: MW-12
 Inj Date : 19-MAR-2009 20:26
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 0903084-05:JAO
 Misc Info : MW-12
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:15 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-----------|------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | 10.252 | 10.251 | (1.000) | 277240 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.655 | 12.654 | (1.000) | 184828 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.414 | 14.412 | (1.000) | 79578 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.626 | 9.624 | (0.939) | 140190 | 157.806 | 6.3 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.974 | 9.972 | (0.973) | 86206 | 144.084 | 5.8 |
| \$ 6 Toluene-d8 | 98 | | 11.541 | 11.539 | (0.912) | 417990 | 133.746 | 5.3 |
| \$ 7 Bromofluorobenzene | 95 | | 13.491 | 13.489 | (0.936) | 124640 | 116.284 | 4.7 |
| 8 Dichlorodifluoromethane | 85 | | Compound Not Detected. | | | | | |
| 9 Chloromethane | 50 | | Compound Not Detected. | | | | | |
| 10 Vinyl Chloride | 62 | | 4.628 | 4.627 | (0.451) | 32799 | 73.5025 | 2.9 |
| 11 Bromomethane | 94 | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | 5.638 | 5.636 | (0.550) | 44034 | 248.020 | 9.9 |
| 13 Trichlorofluoromethane | 101 | | Compound Not Detected. | | | | | |
| 14 Acrolein | 56 | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | 7.031 | 7.029 | (0.686) | 6911 | 8.08371 | 0.32 (a) |

3/25/09

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-------------------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.083 | 7.064 | (0.691) | 6218 | 65.7027 | 2.6 |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | |
| 25 Methylene Chloride | 84 | 7.710 | 7.708 | (0.752) | 12256 | 14.6536 | 0.59 |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | 8.059 | 8.057 | (0.786) | 15845 | 16.6491 | 0.67 |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.581 | 8.579 | (0.837) | 980231 | 620.615 | 25 |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | 9.190 | 9.189 | (0.896) | 1441768 | 1617.01 | 65 (A) |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | |
| 40 Chloroform | 83 | 9.486 | 9.485 | (0.925) | 23726 | 16.2319 | 0.65 |
| 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | |
| 47 Benzene | 78 | 10.026 | 10.024 | (0.978) | 28517 | 8.91937 | 0.36 (a) |
| 48 1,2-Dichloroethane | 62 | 10.044 | 10.042 | (0.980) | 10771 | 16.3119 | 0.65 |
| 49 Trichloroethene | 130 | 10.583 | 10.581 | (1.032) | 124128 | 127.322 | 5.1 |
| 51 1,2-Dichloropropane | 63 | 10.757 | 10.773 | (1.049) | 15825 | 22.1350 | 0.89 |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | |
| 65 Tetrachloroethene | 164 | 12.046 | 12.044 | (0.952) | 88287 | 115.045 | 4.6 |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | |
| 69 Chlorobenzene | 112 | 12.690 | 12.688 | (1.003) | 17738 | 8.73103 | 0.35 (a) |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-------------------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | QN-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | 14.431 | 14.430 | (1.001) | 102041 | 66.4380 | 2.7 |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | | | | | | |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

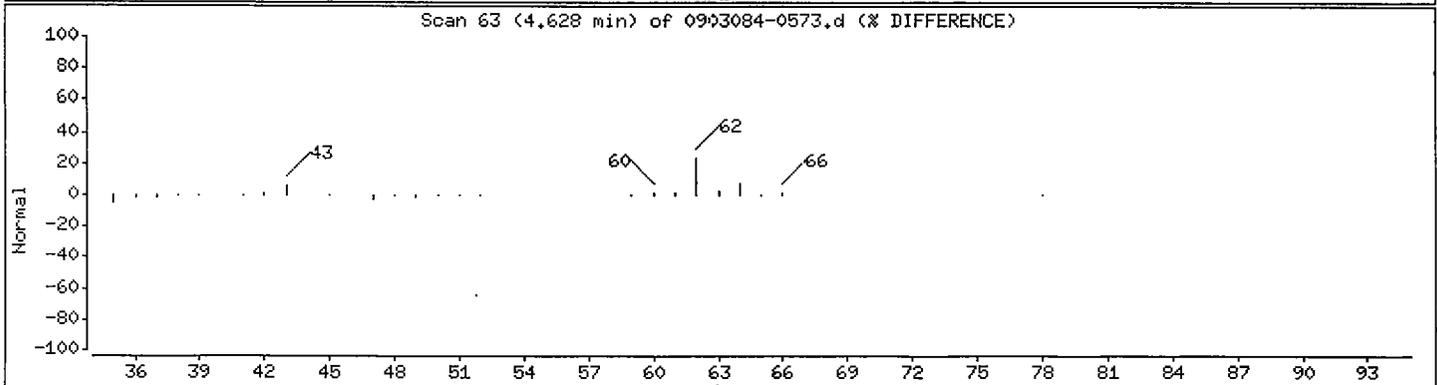
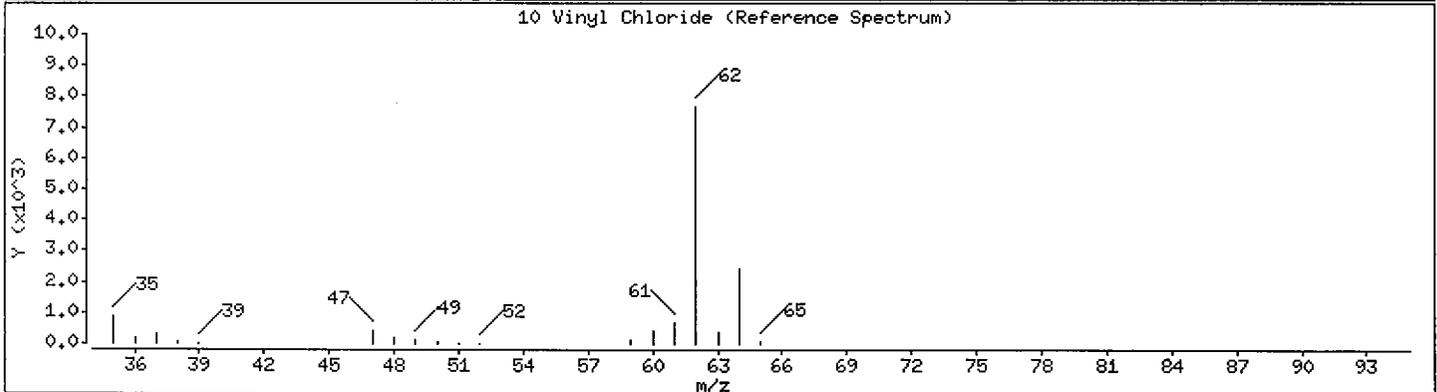
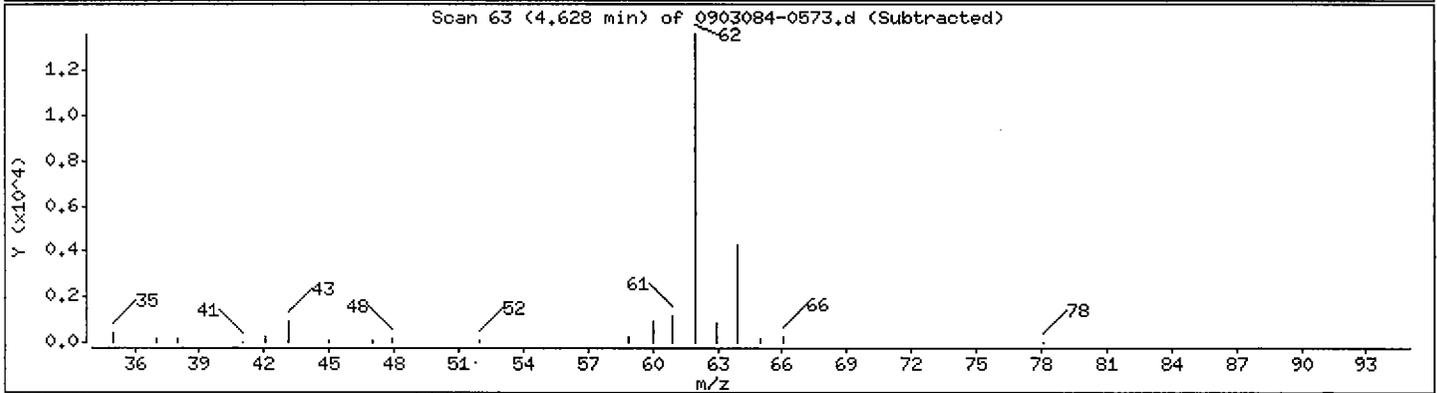
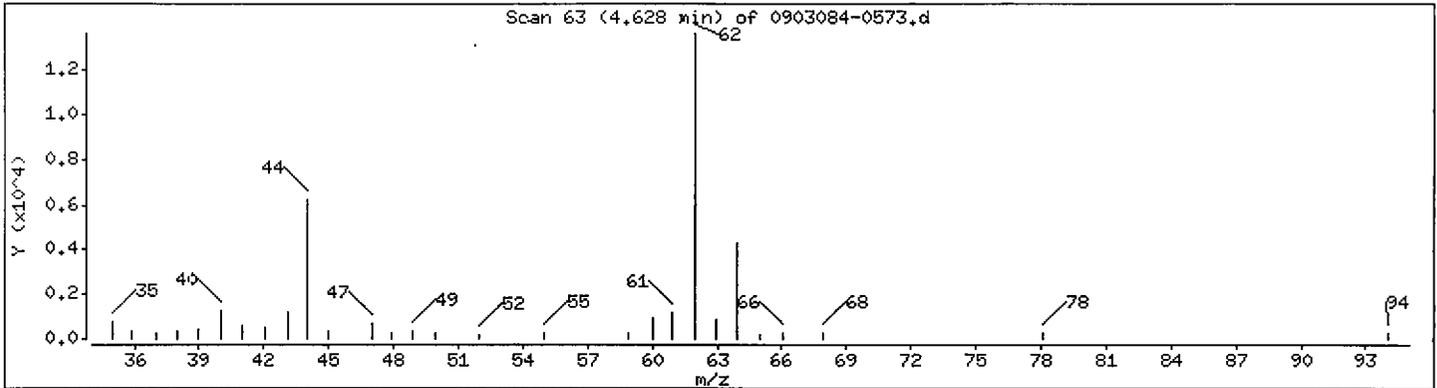
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

10 Vinyl Chloride

Concentration: 2.9 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

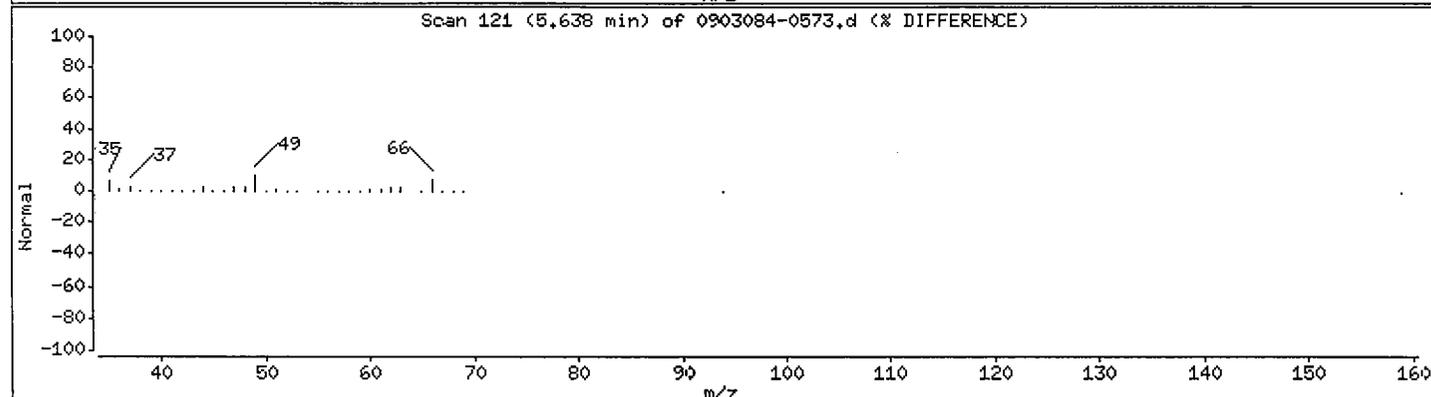
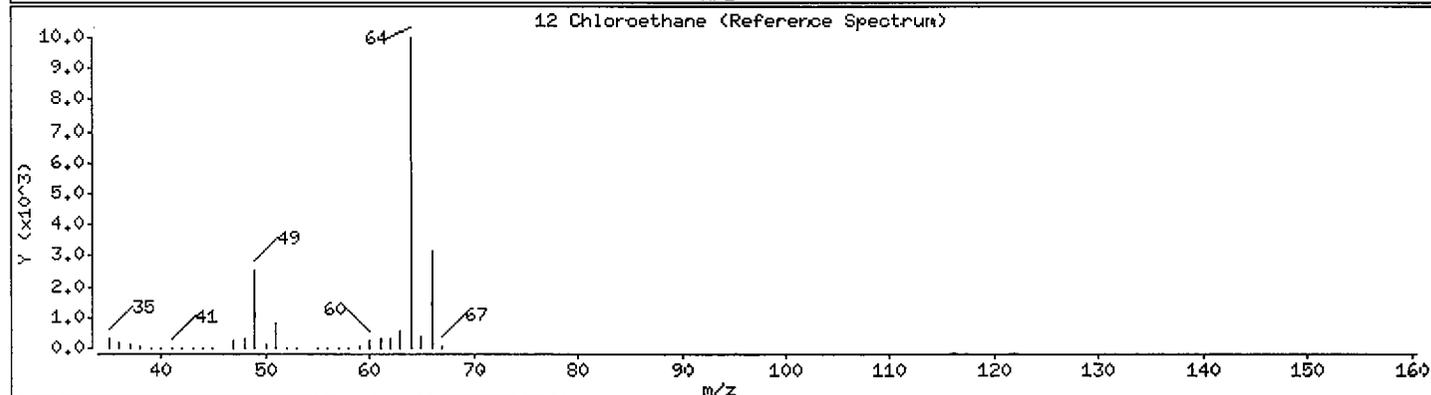
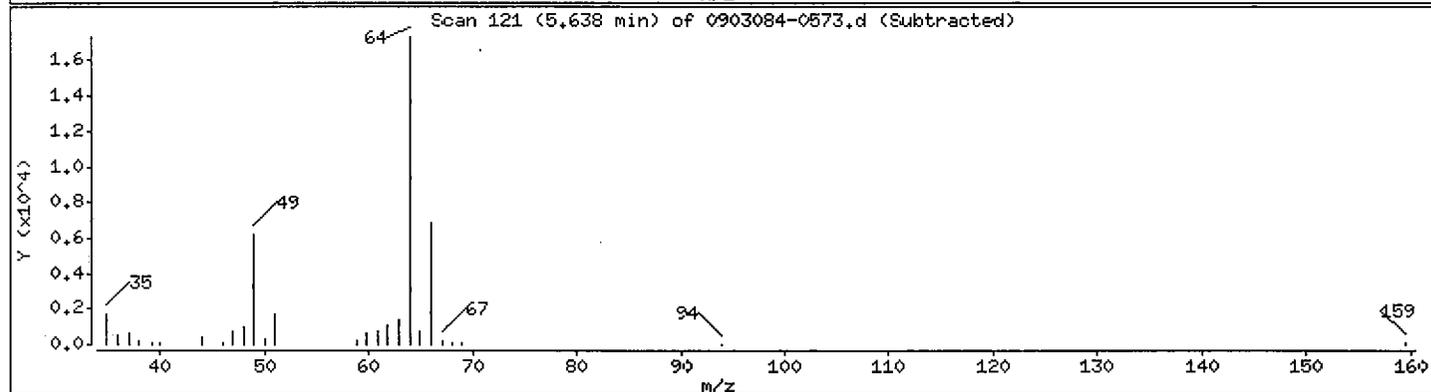
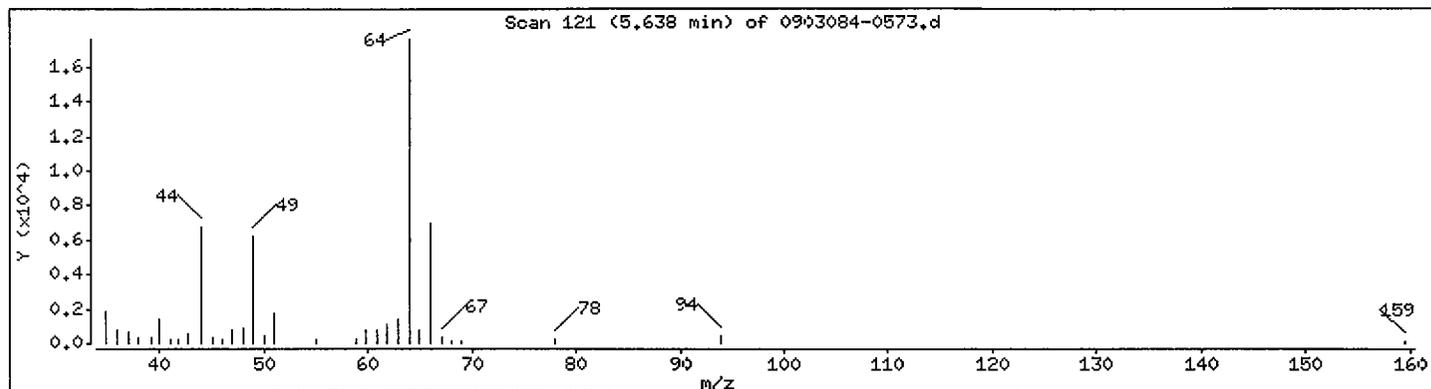
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

12 Chloroethane

Concentration: 9.9 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

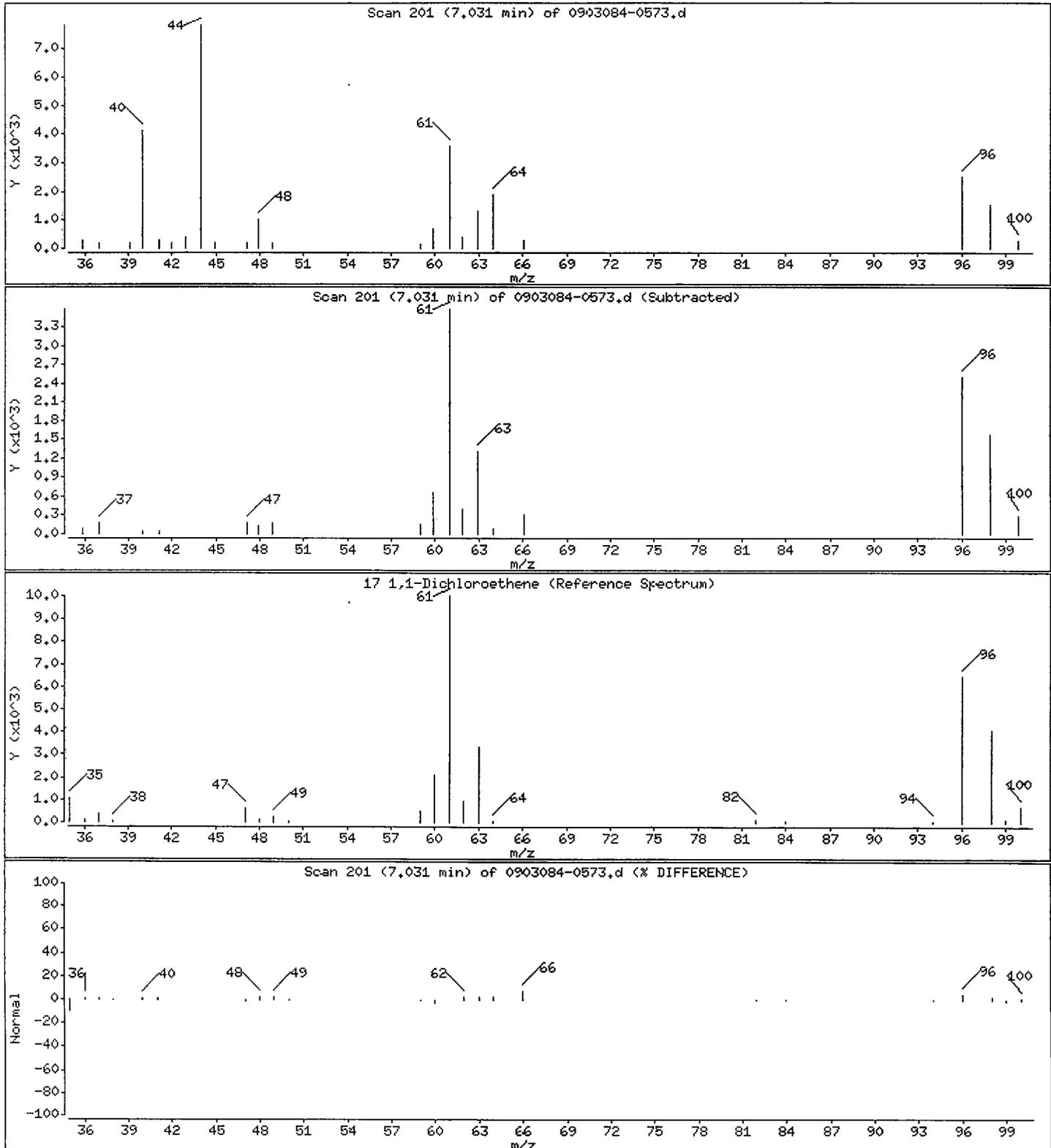
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

17 1,1-Dichloroethene

Concentration: 0.32 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05:JAO

Purge Volume: 25.0

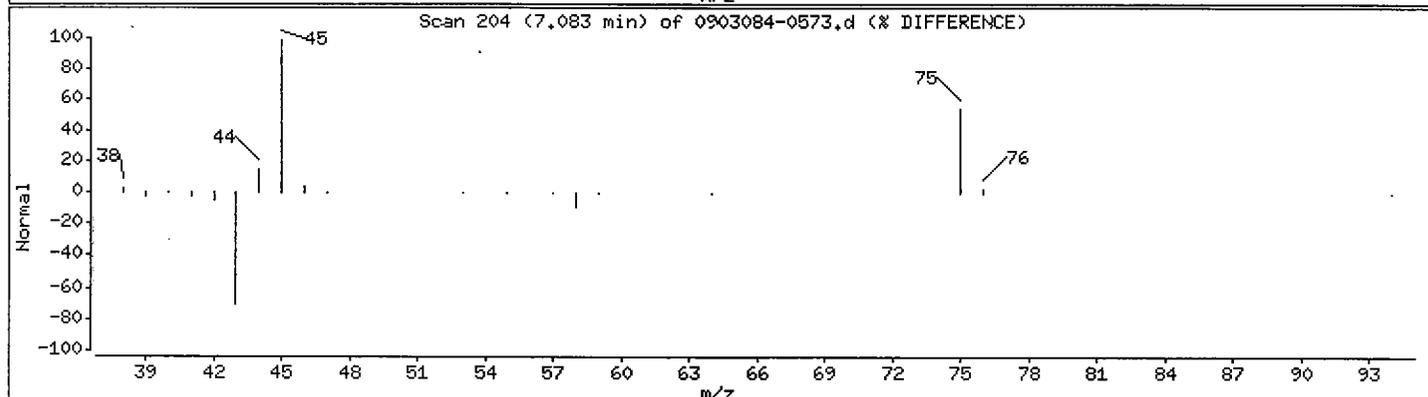
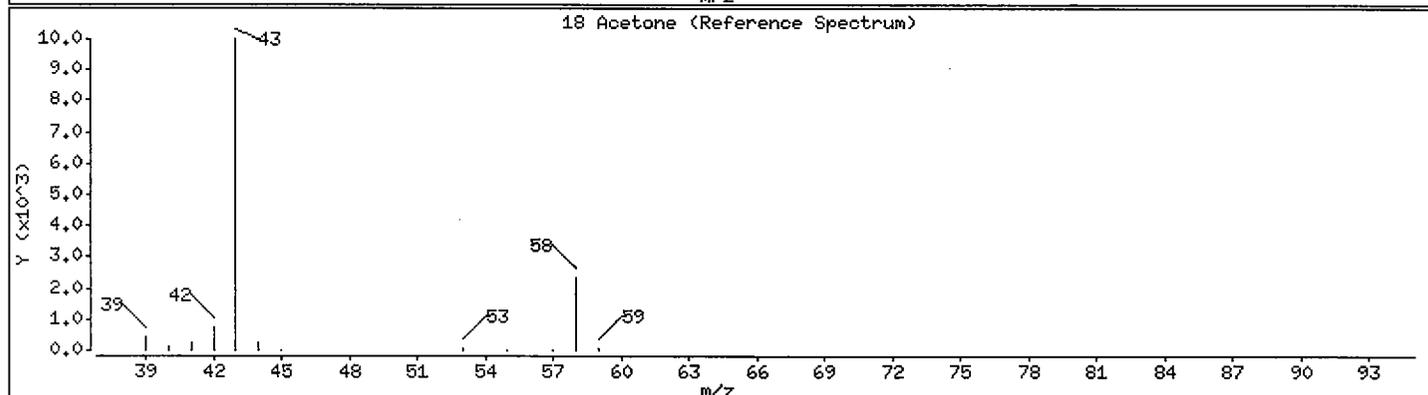
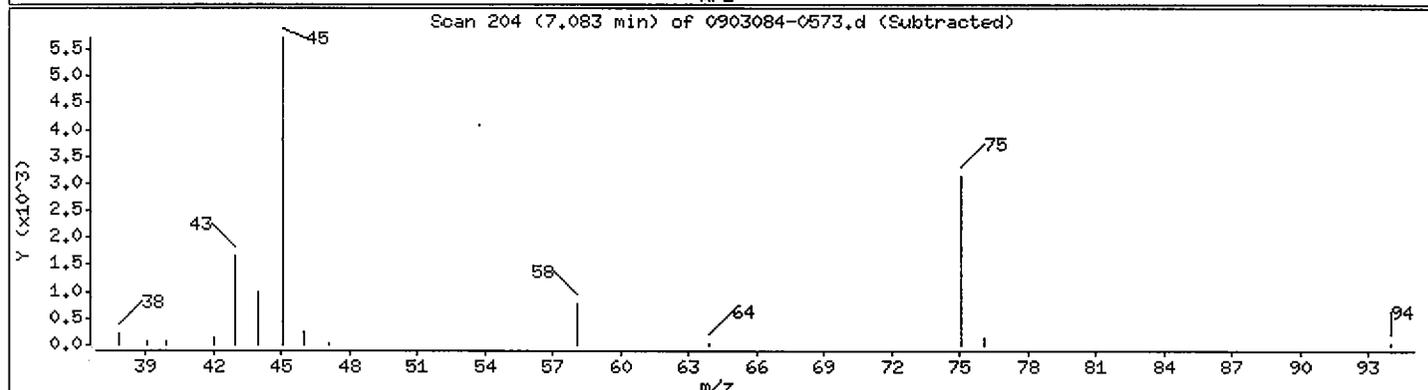
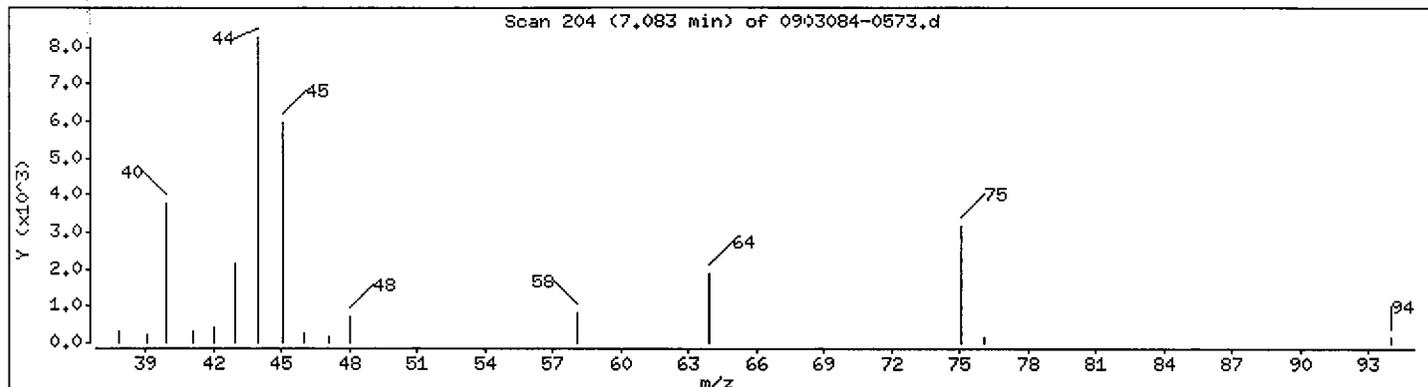
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 2.6 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

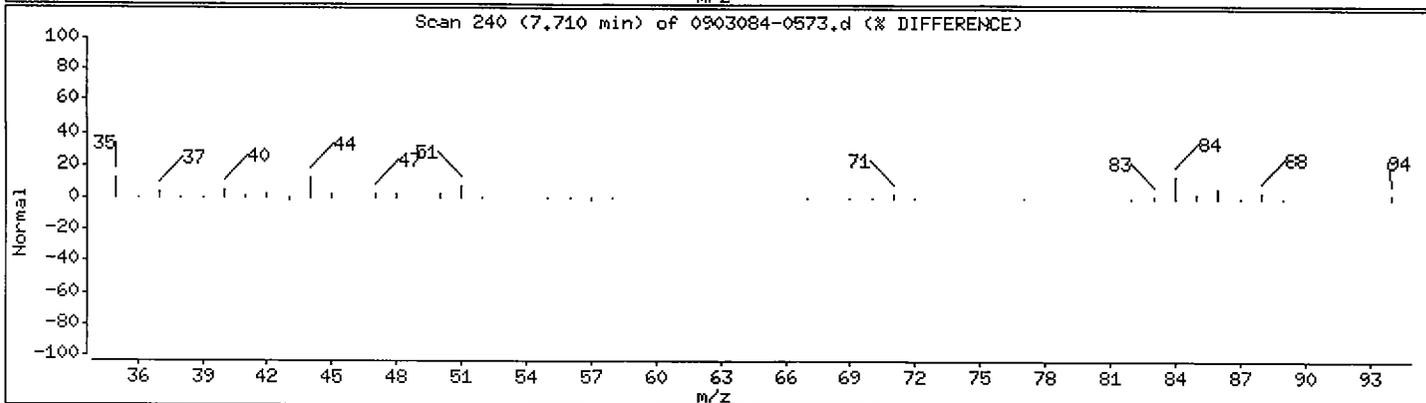
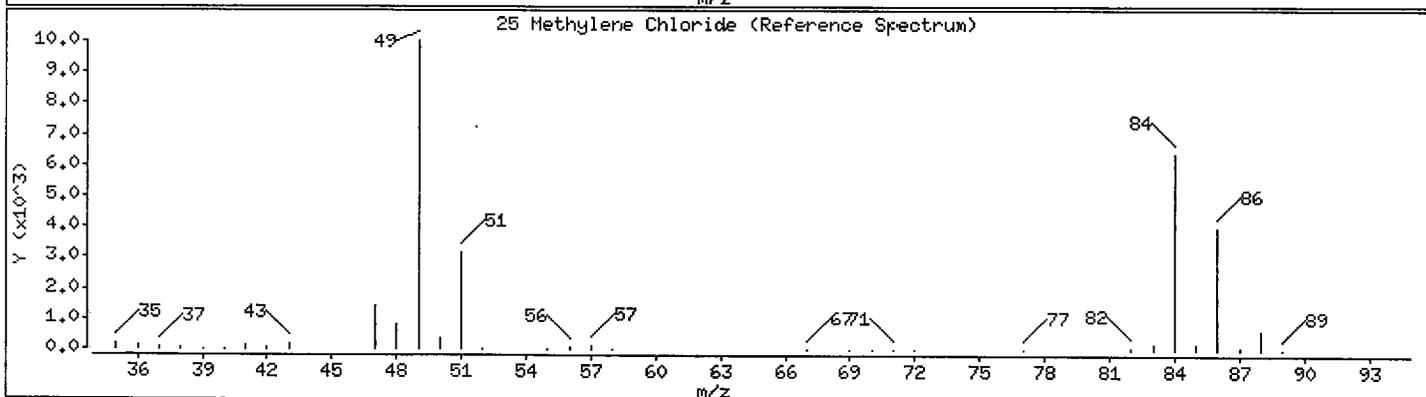
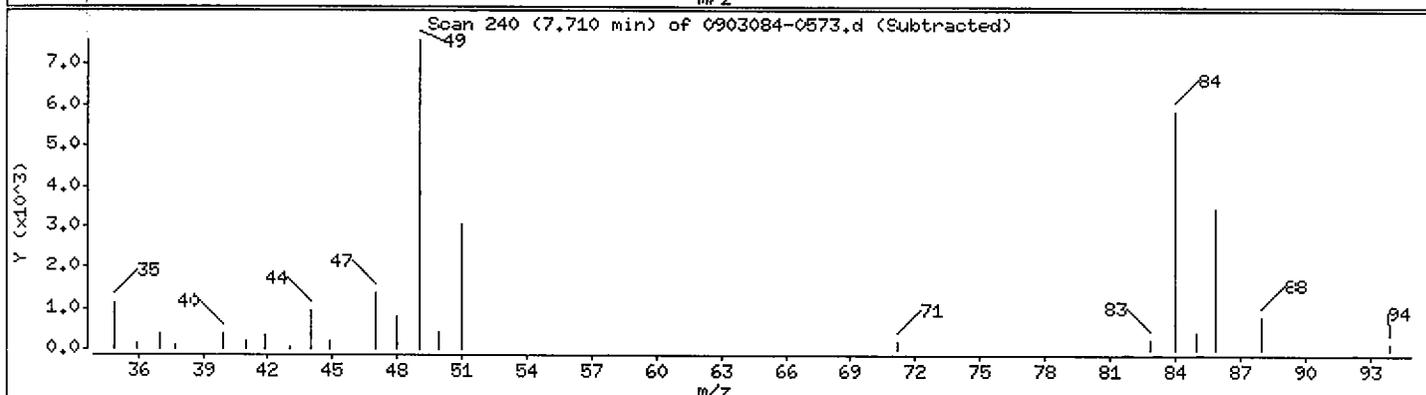
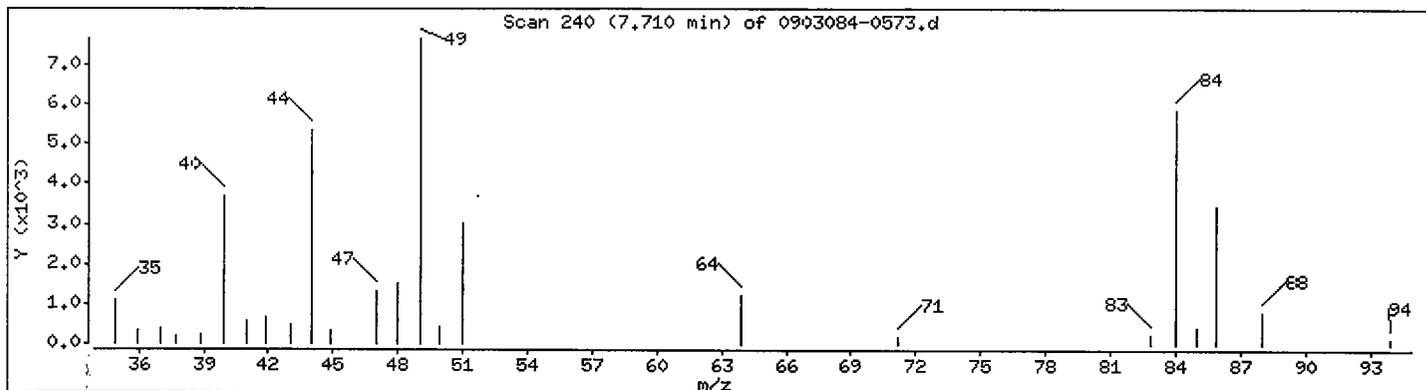
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.59 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date: 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05:JAO

Purge Volume: 25.0

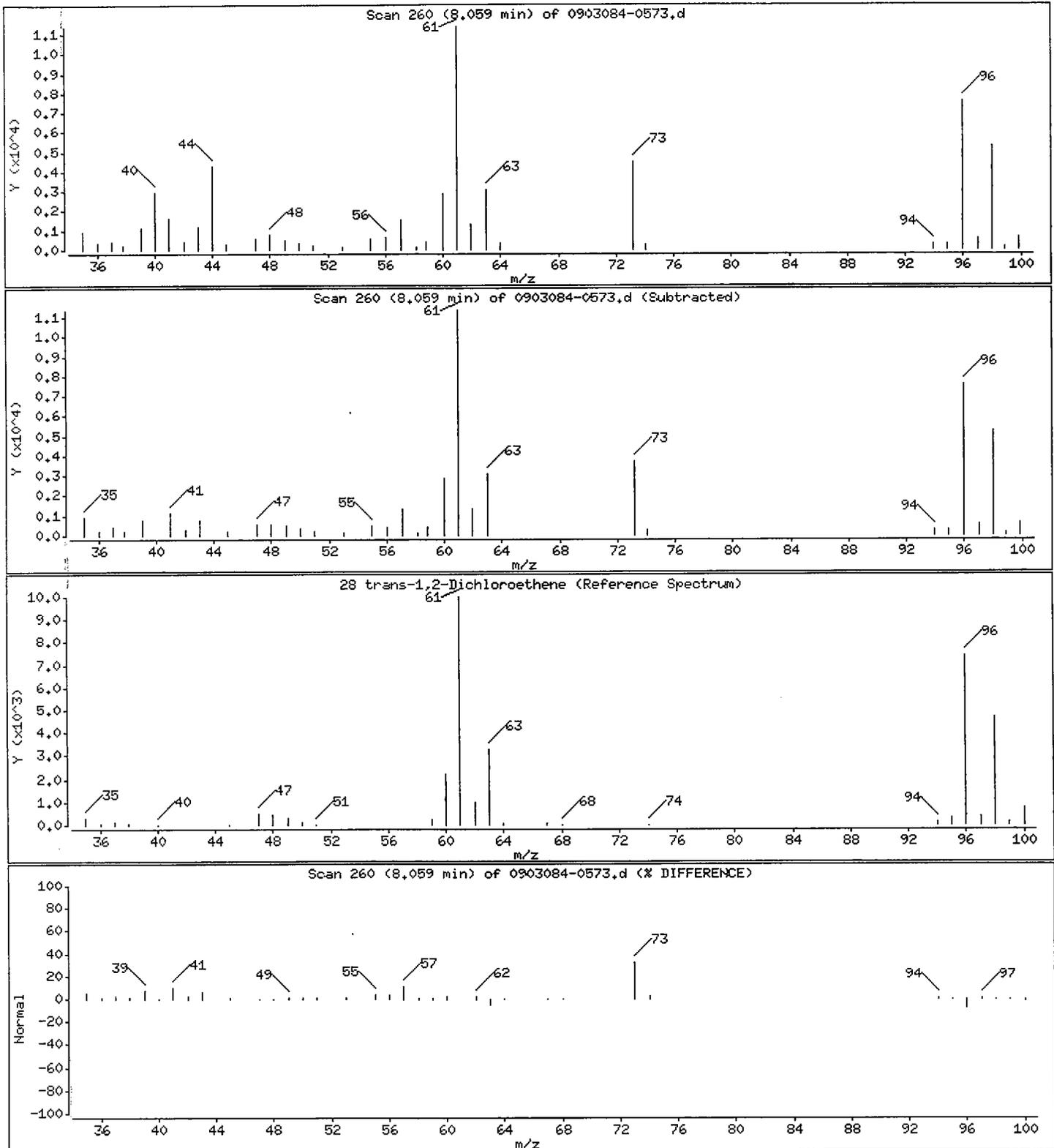
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

28 trans-1,2-Dichloroethene

Concentration: 0.67 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05:JAO

Purge Volume: 25.0

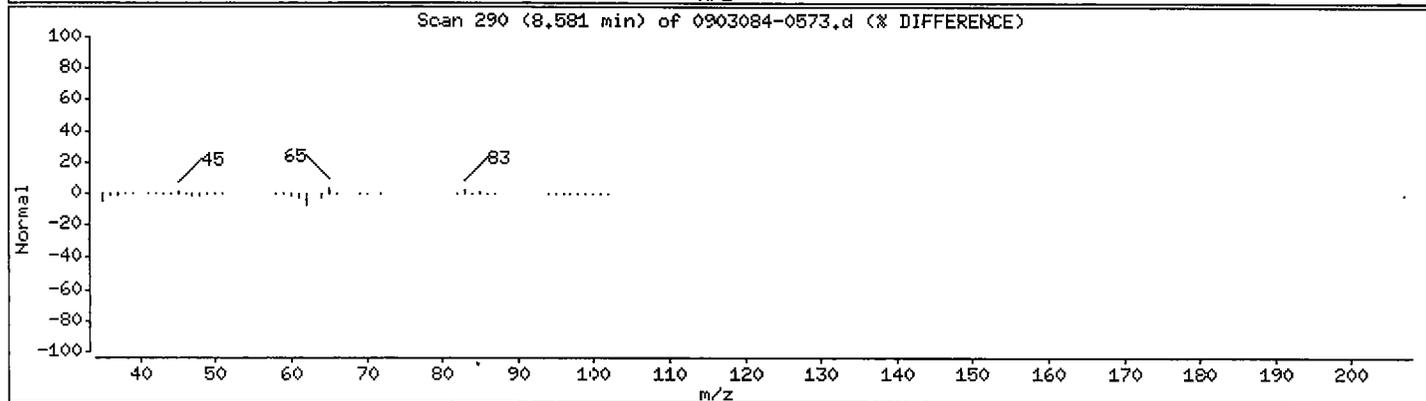
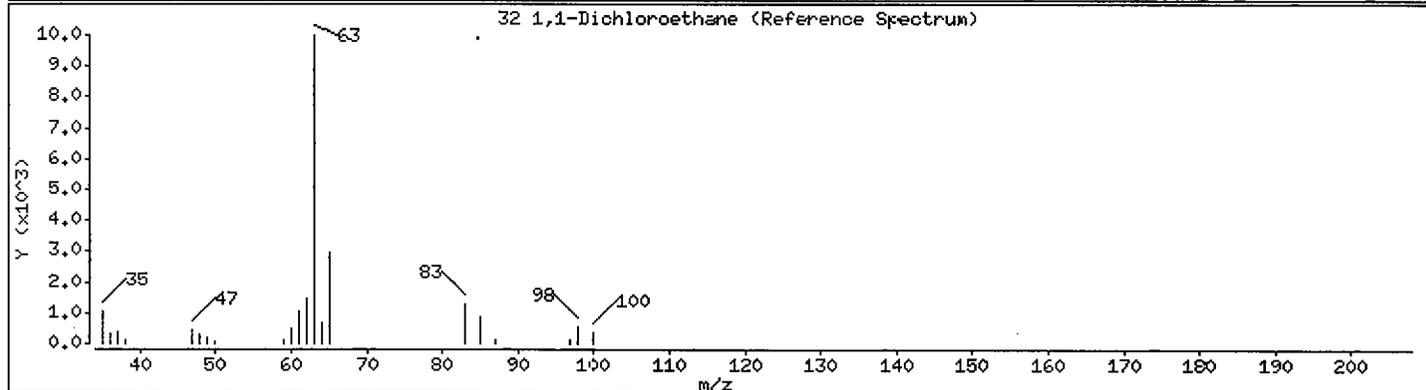
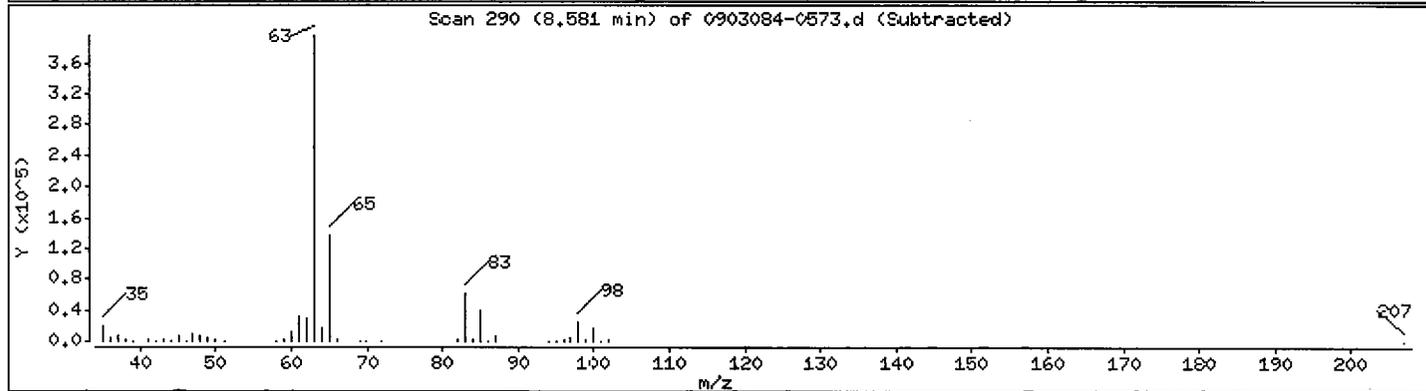
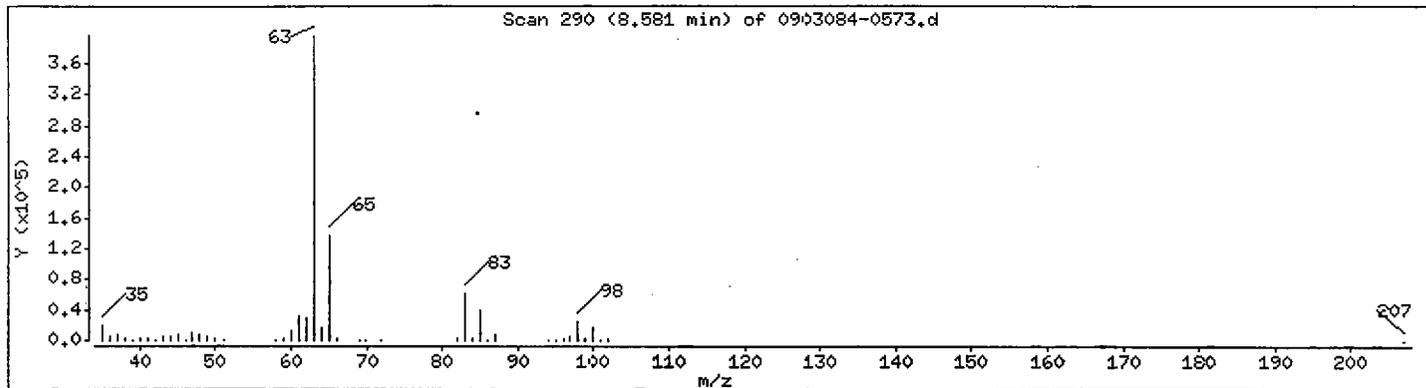
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

32 1,1-Dichloroethane

Concentration: 25 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

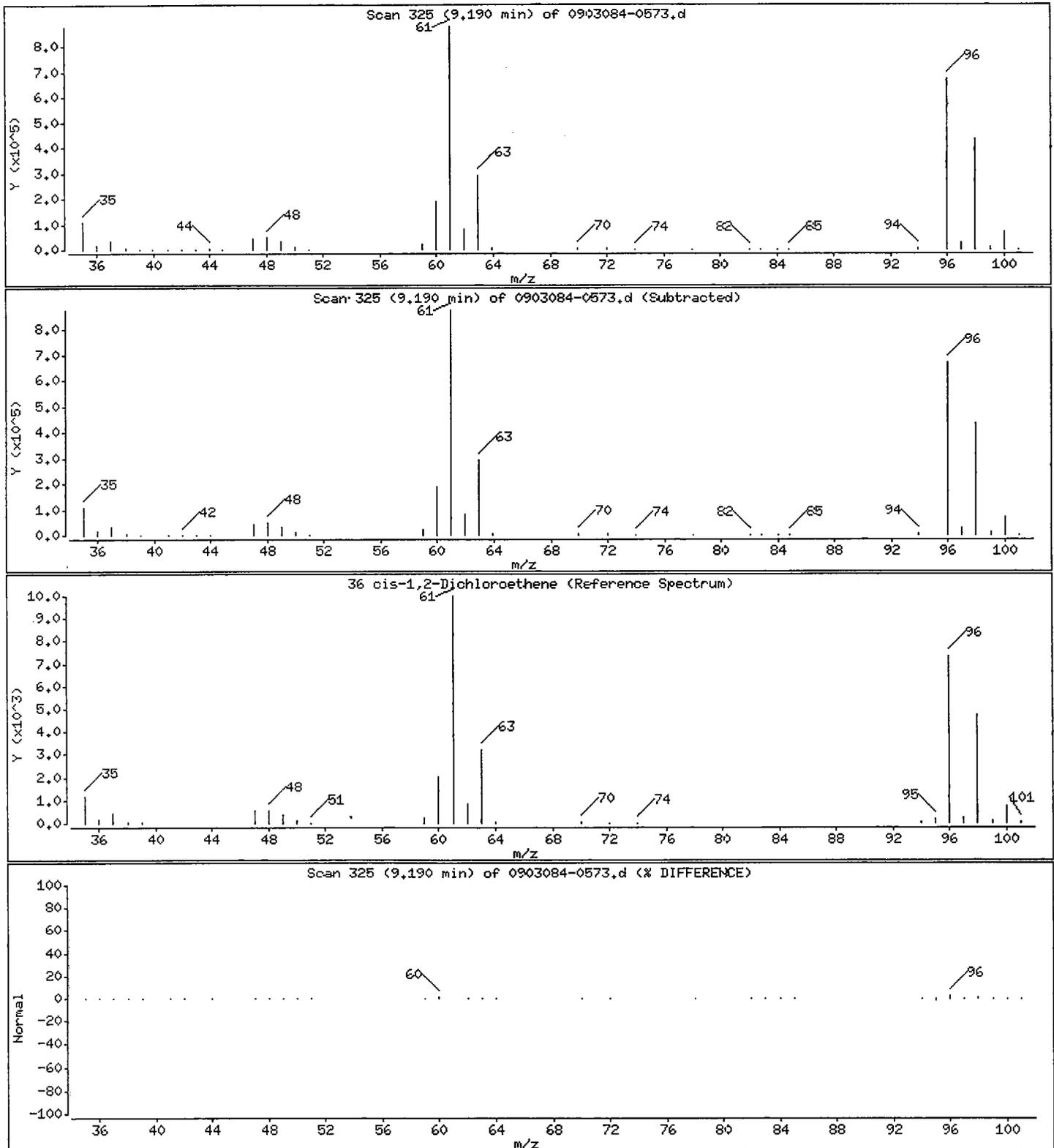
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

36 cis-1,2-Dichloroethene

Concentration: 65 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date: 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05:JAO

Purge Volume: 25.0

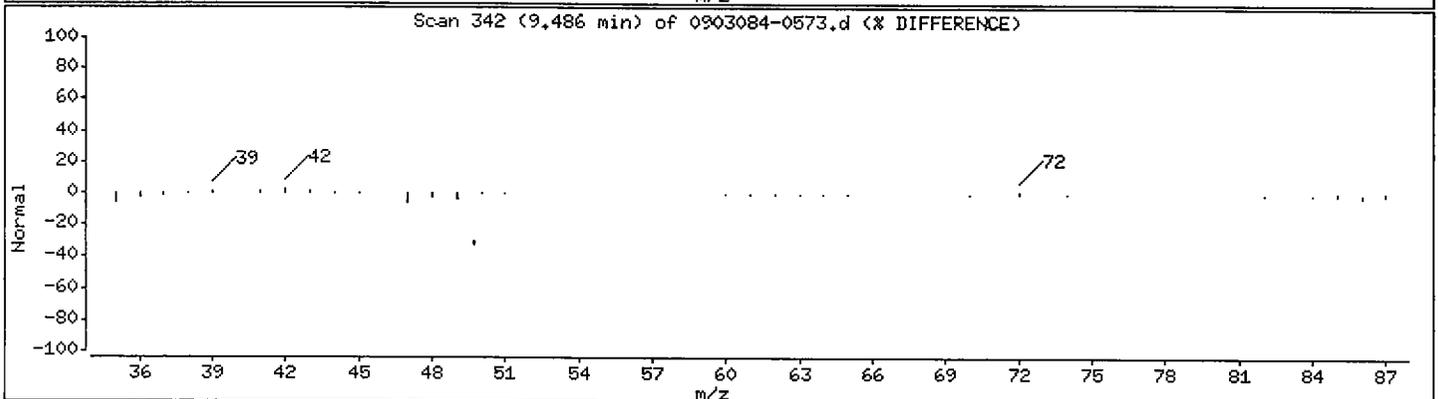
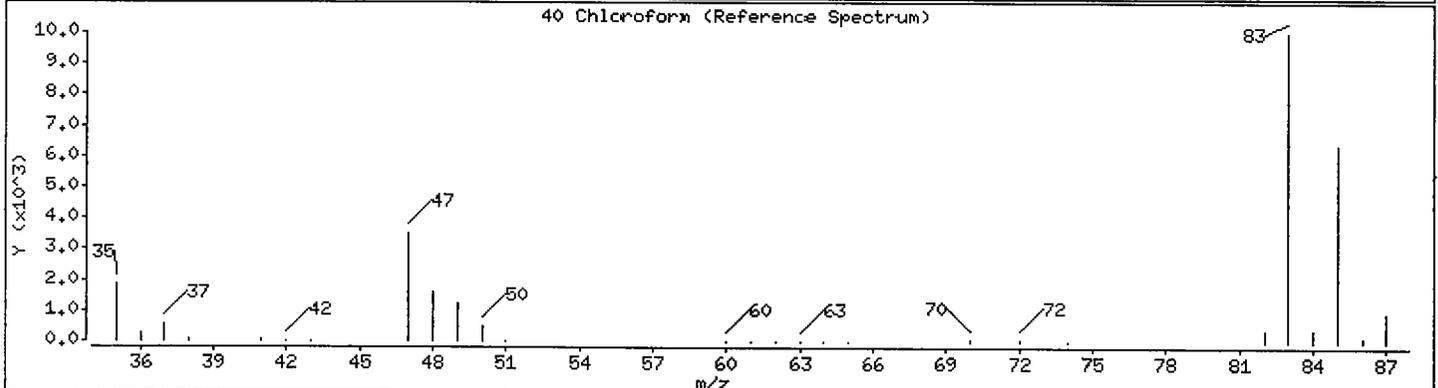
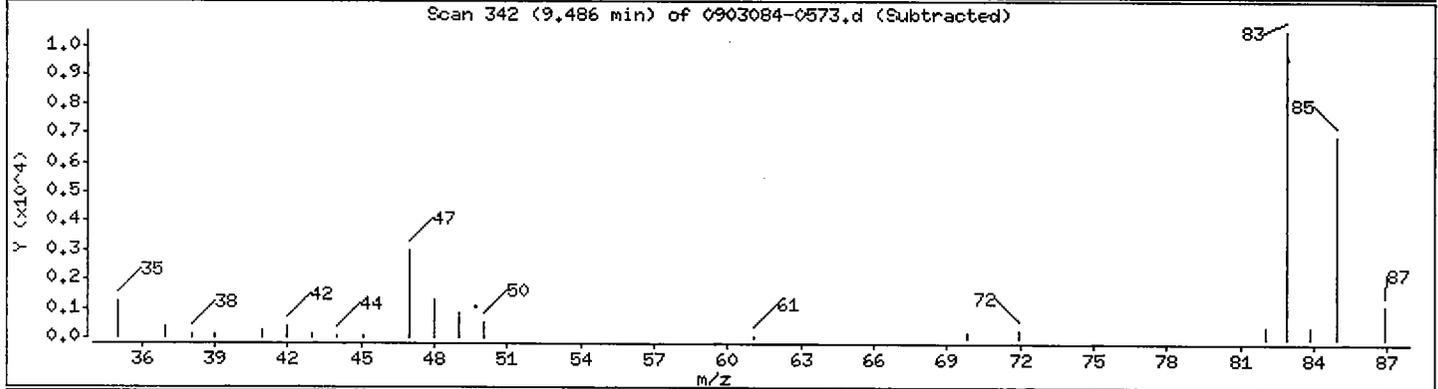
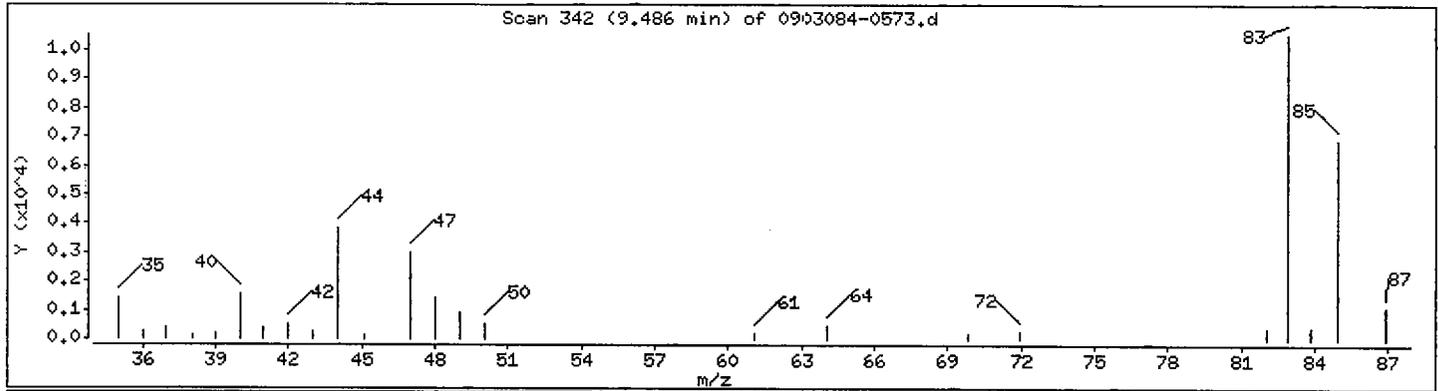
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

40 Chloroform

Concentration: 0.65 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date: 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05:JAO

Purge Volume: 25.0

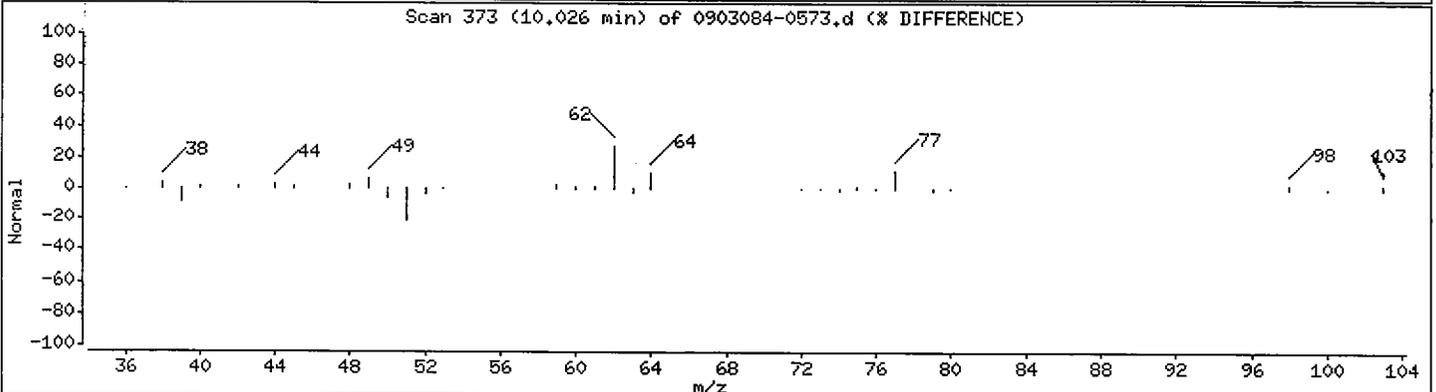
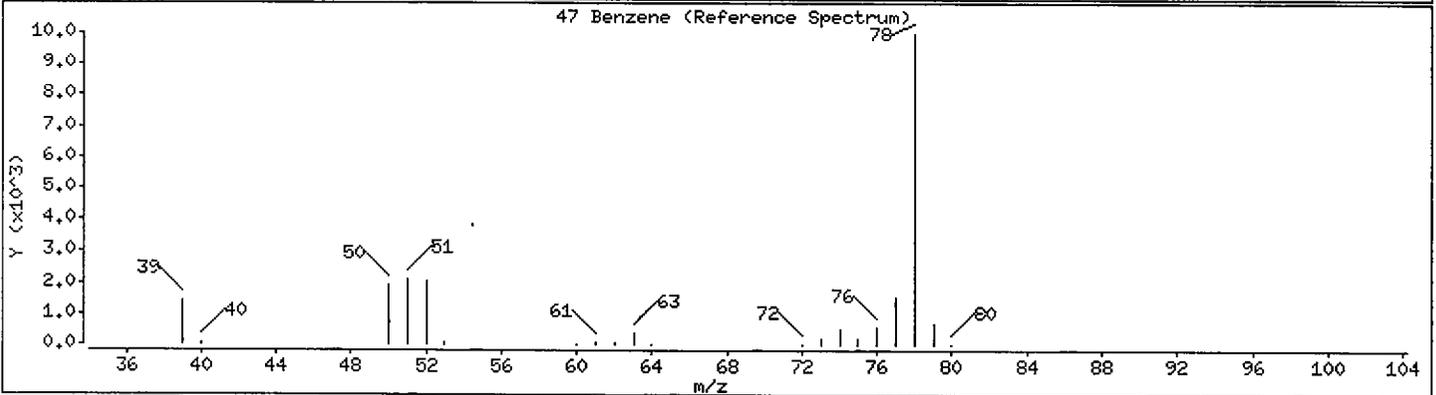
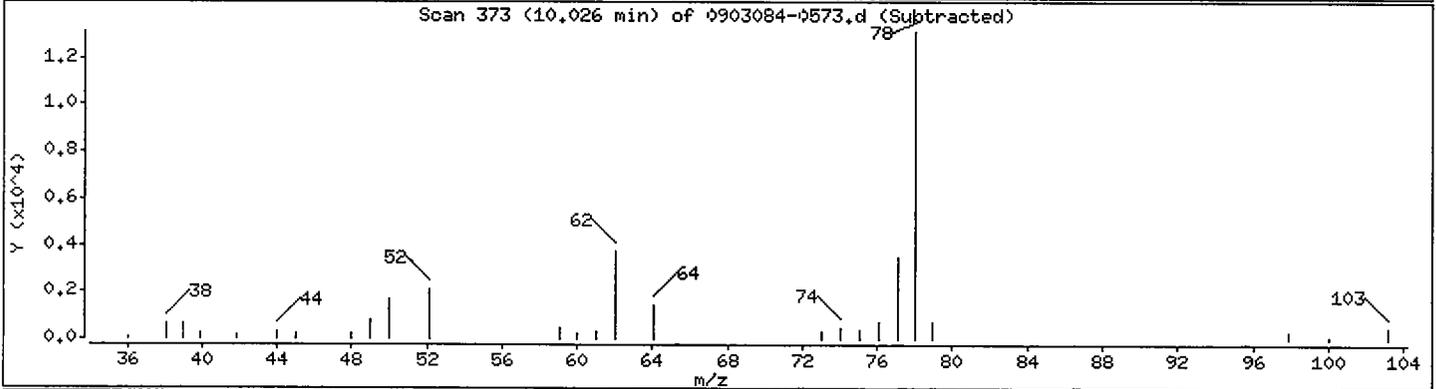
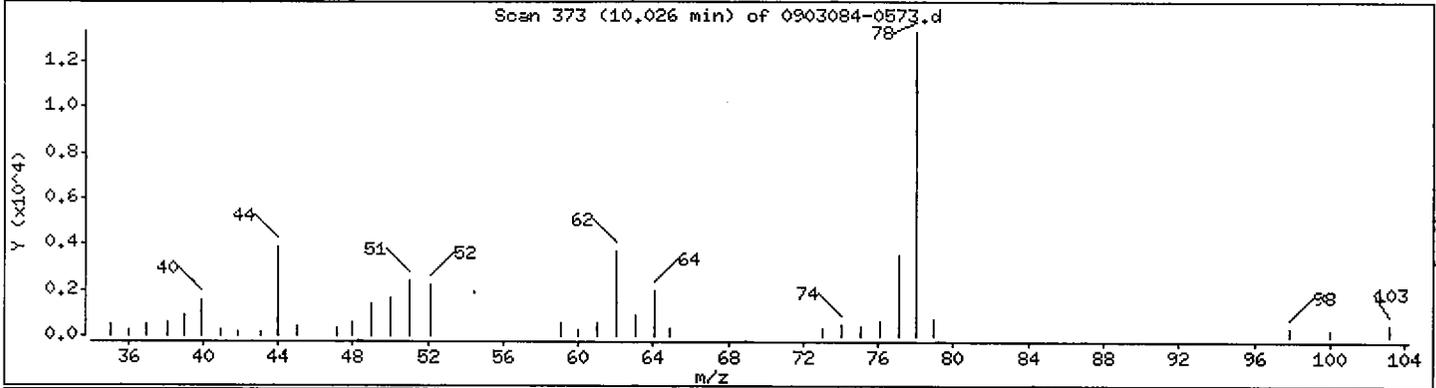
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

47 Benzene

Concentration: 0.36 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

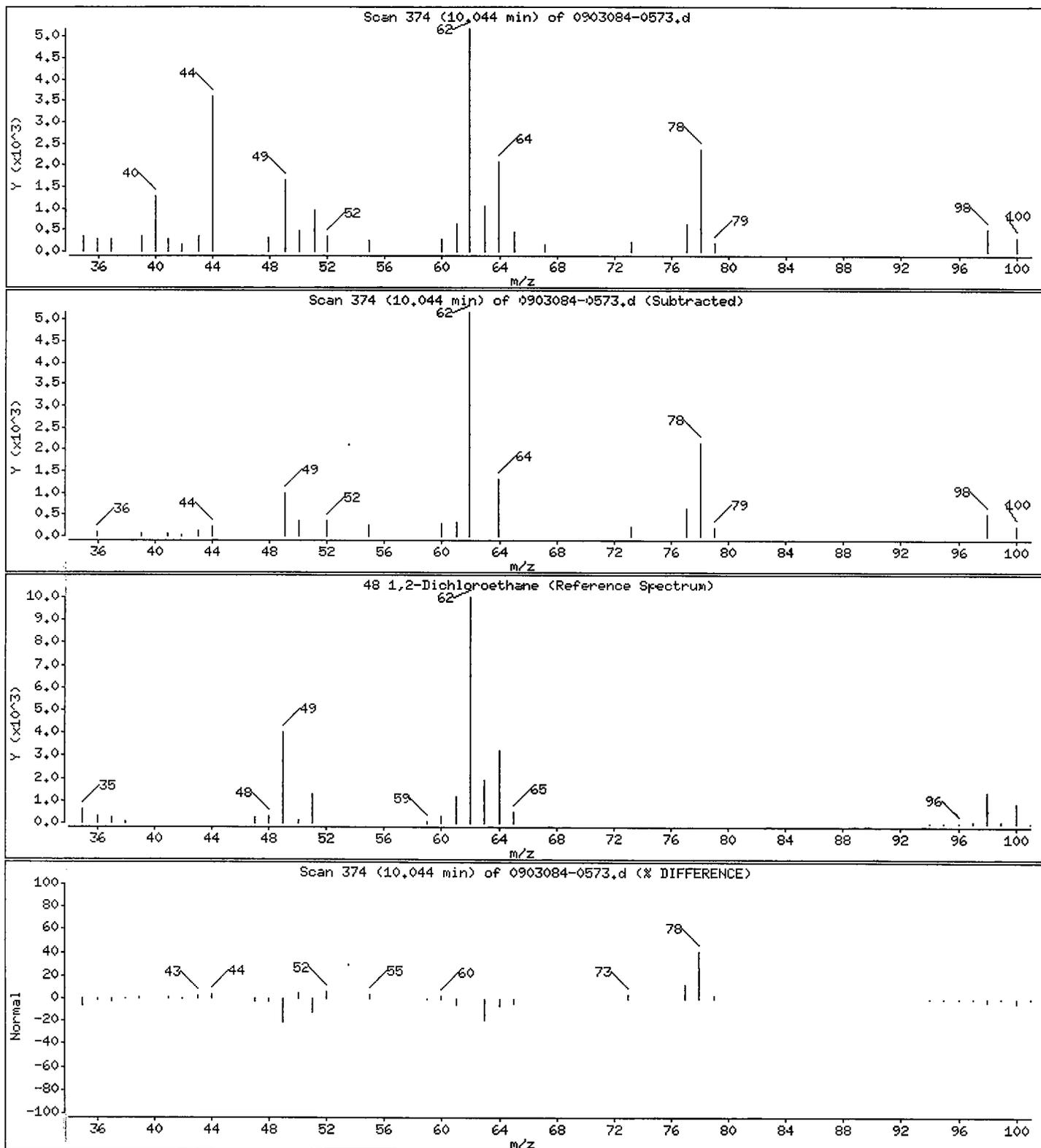
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

48 1,2-Dichloroethane

Concentration: 0.65 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date: 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

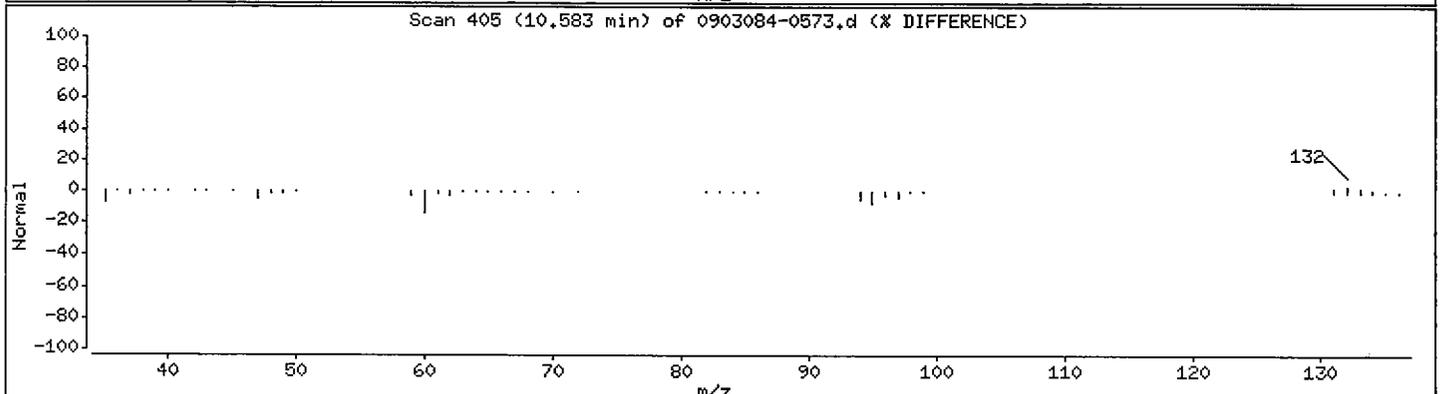
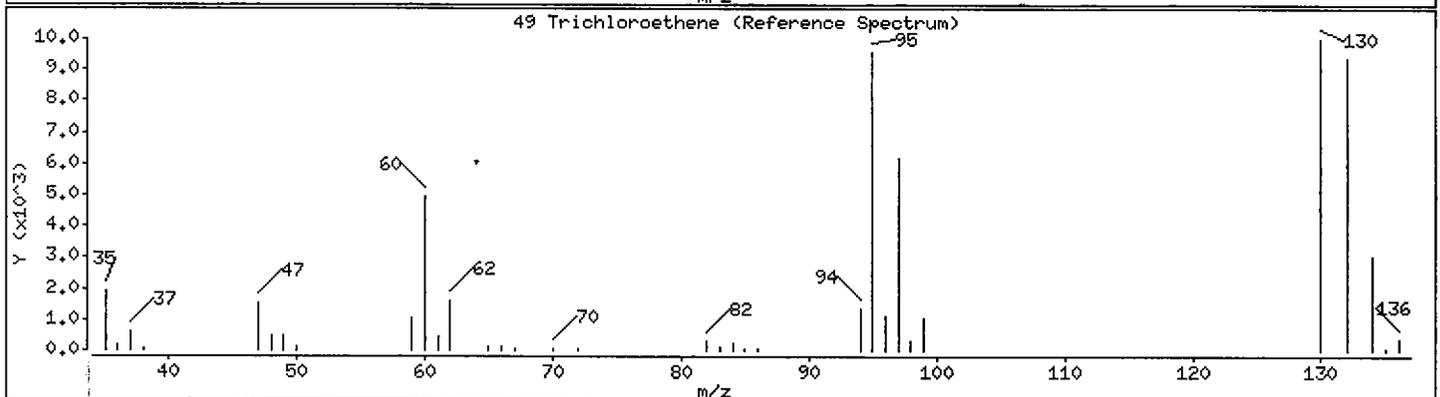
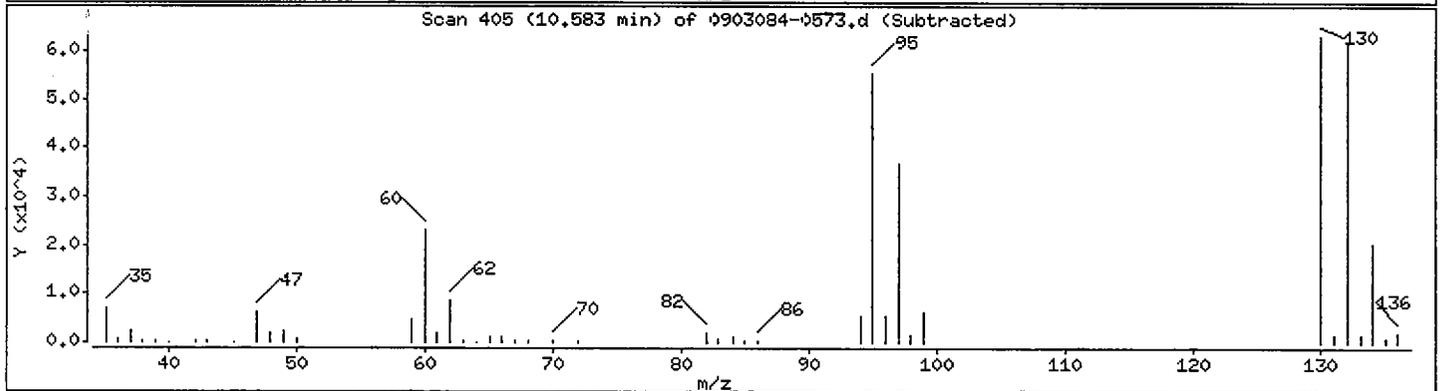
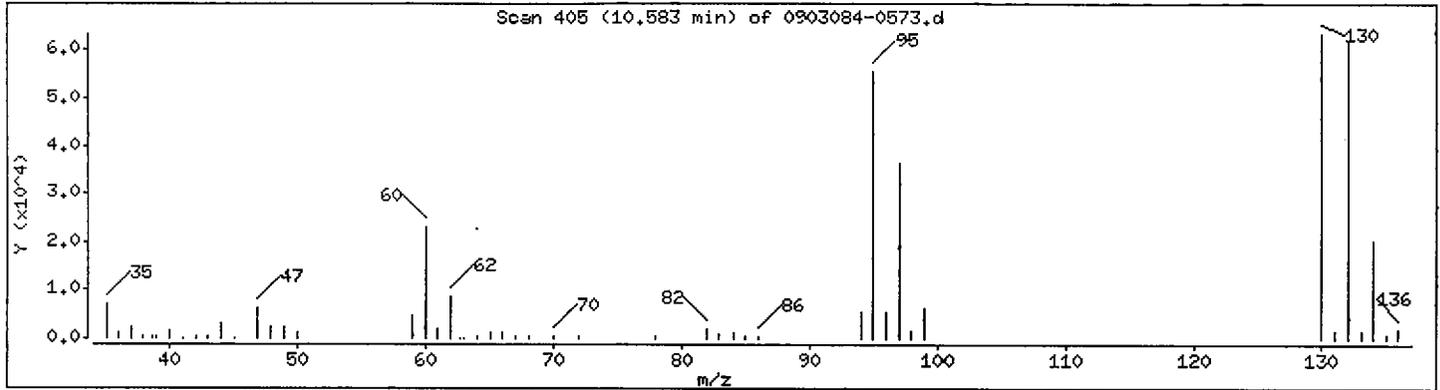
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

49 Trichloroethene

Concentration: 5.1 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date: 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

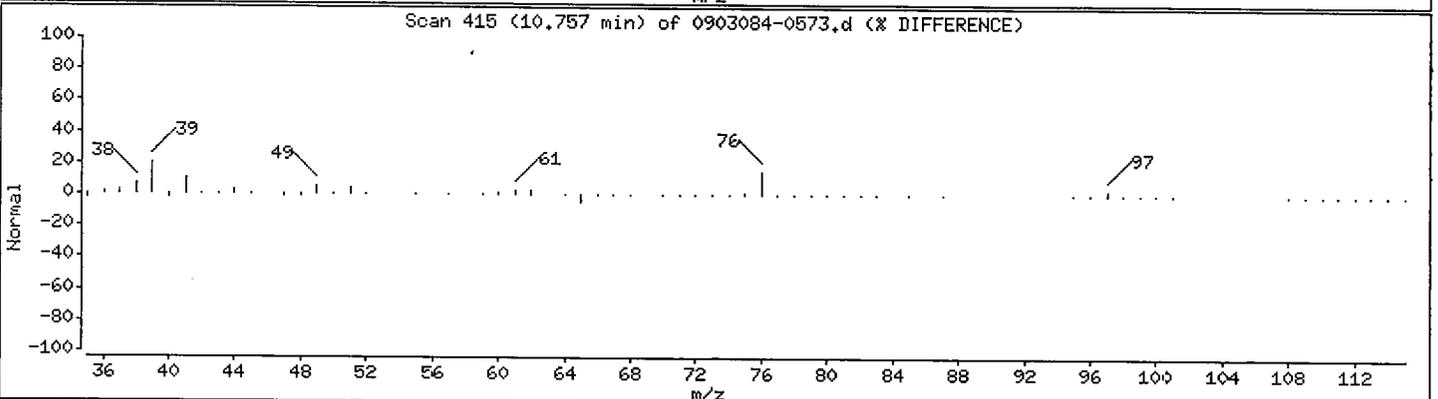
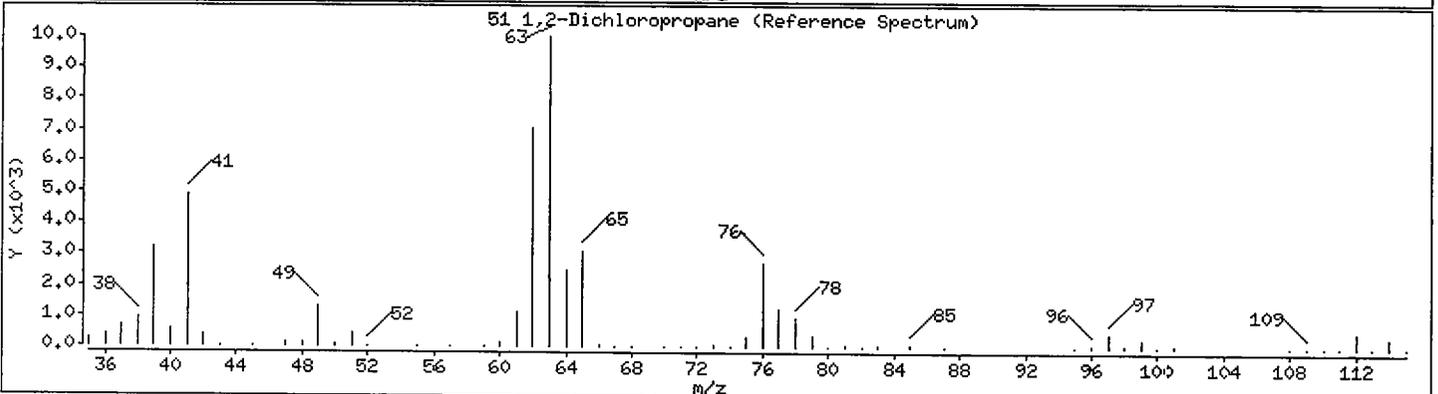
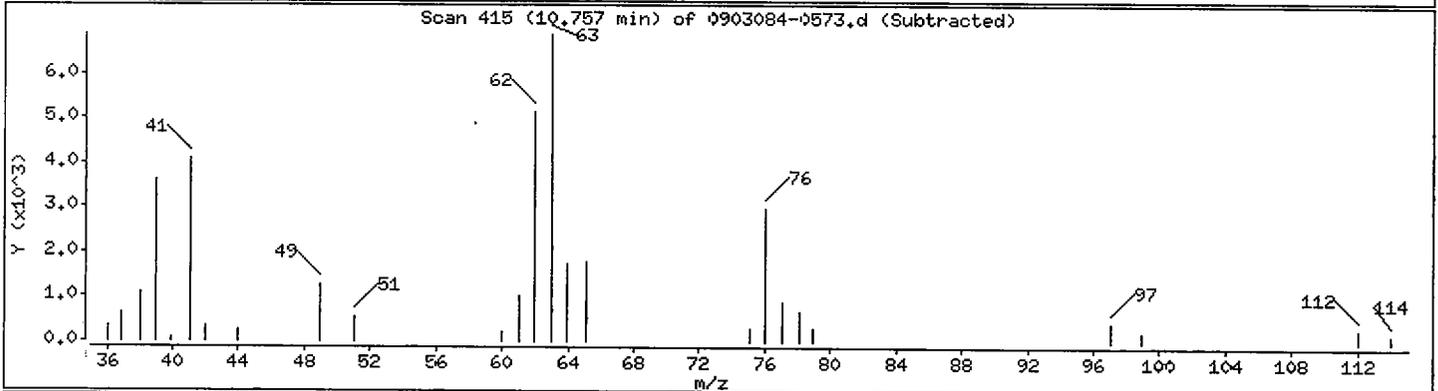
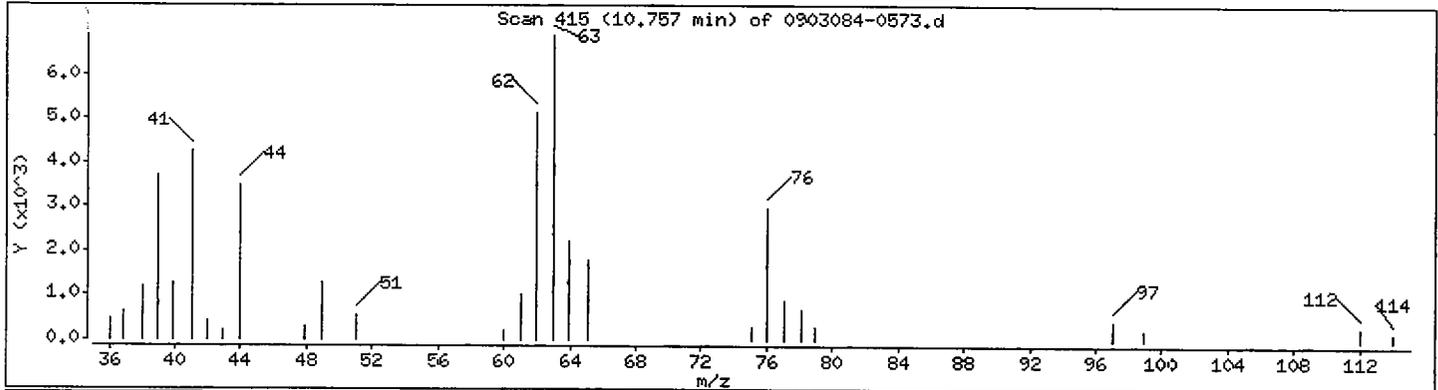
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

51 1,2-Dichloropropane

Concentration: 0.89 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

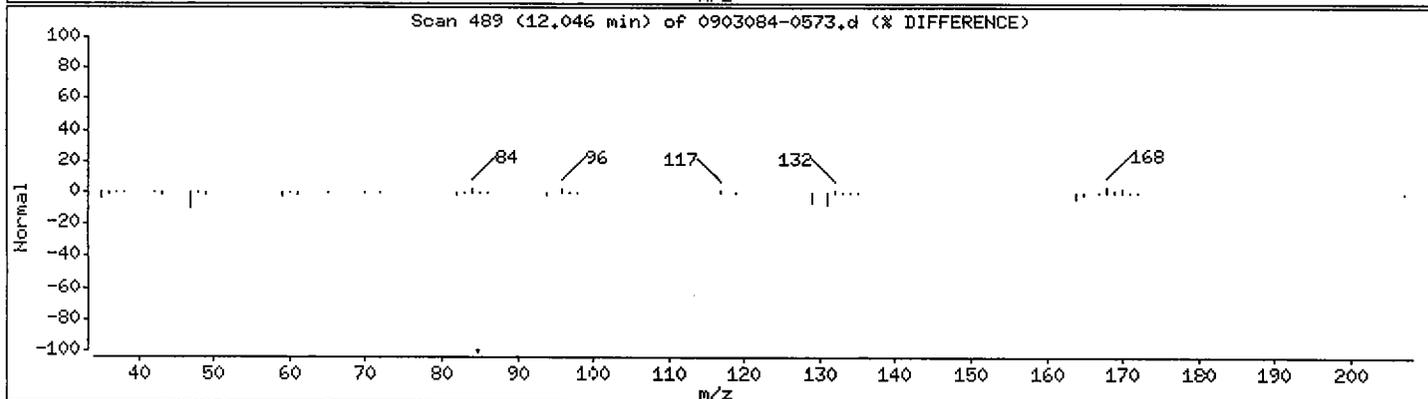
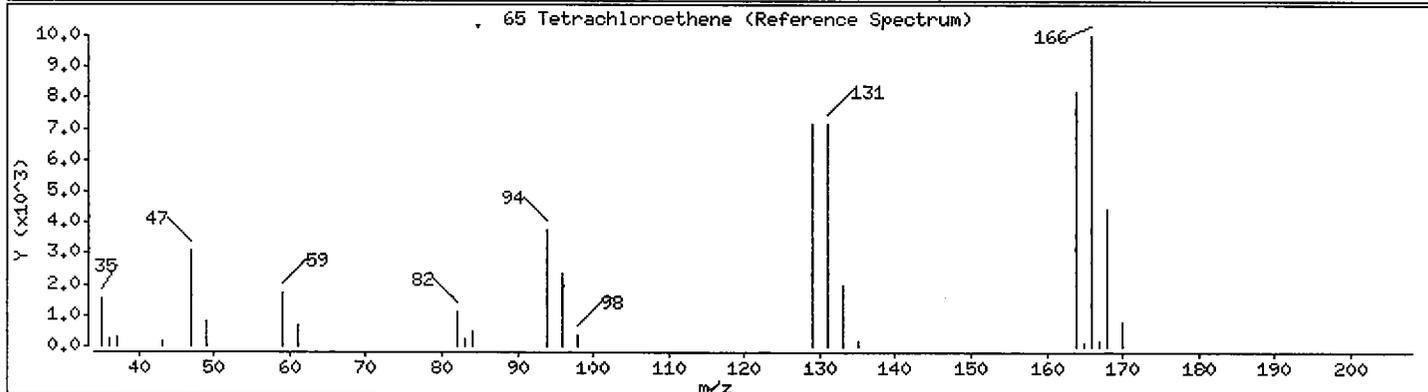
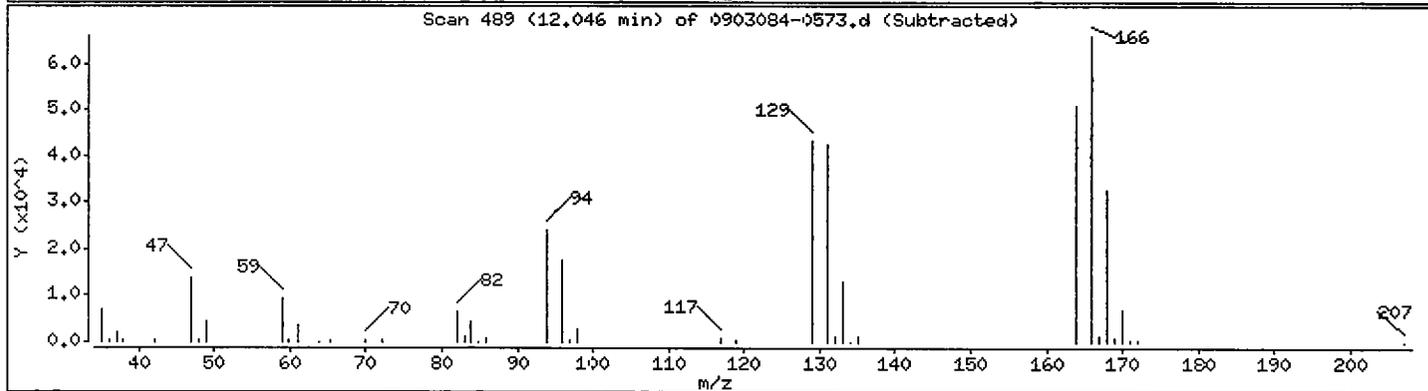
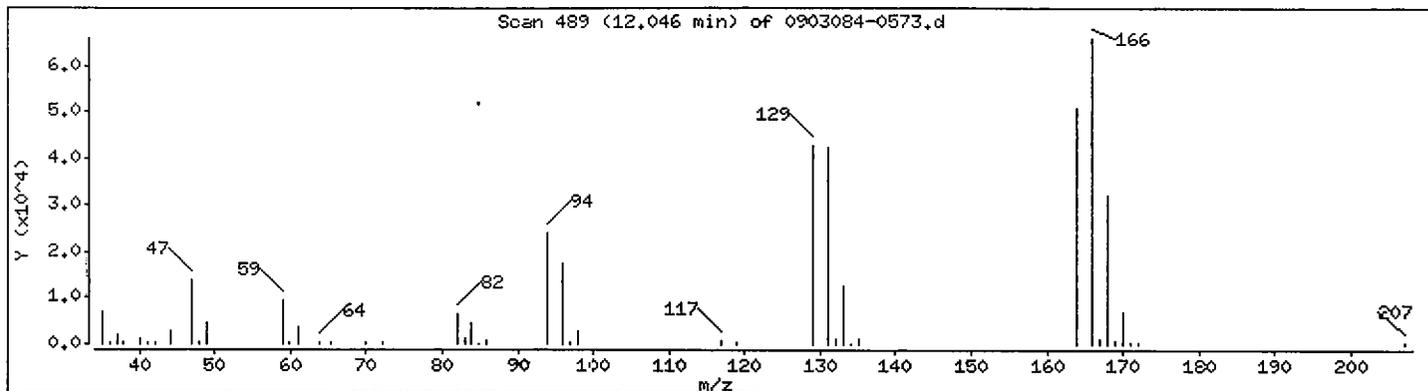
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 4.6 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05;JAO

Purge Volume: 25.0

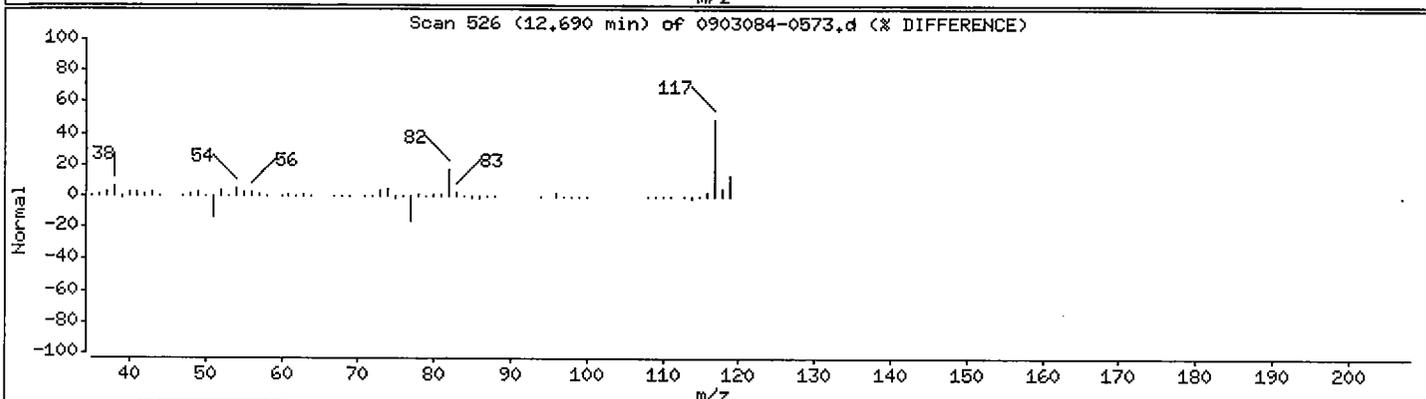
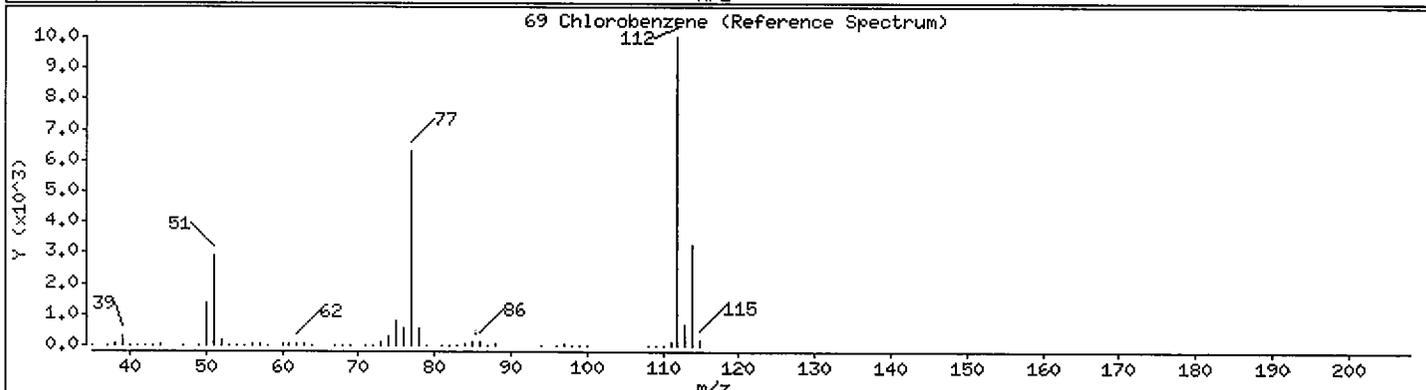
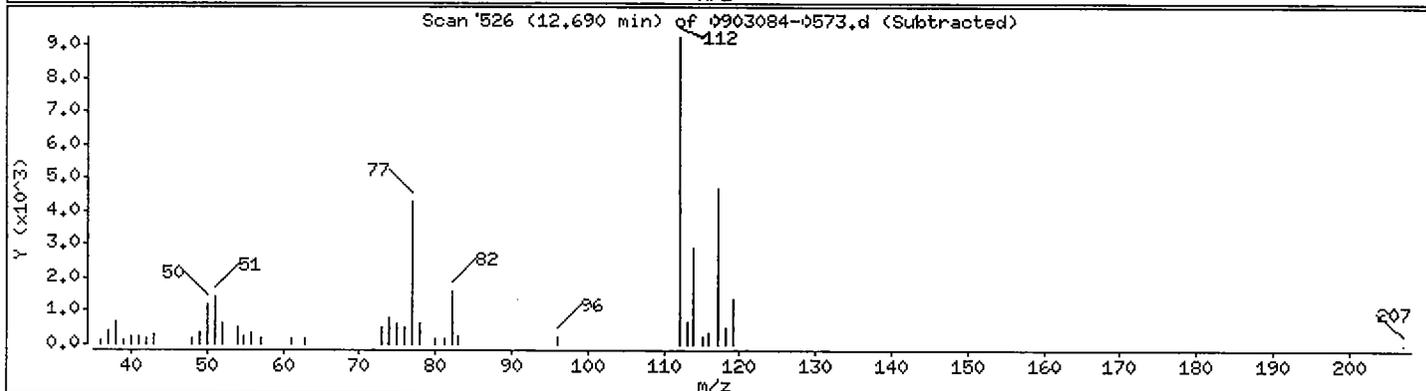
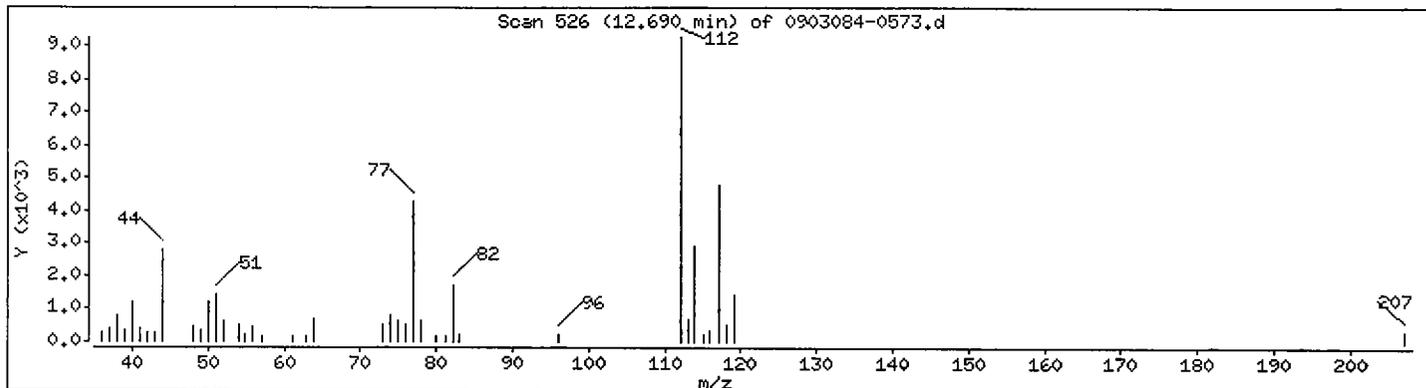
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

69 Chlorobenzene

Concentration: 0.35 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0573.d

Date : 19-MAR-2009 20:26

Client ID: MW-12

Instrument: 5972hp73.i

Sample Info: 0903084-05:JAO

Purge Volume: 25.0

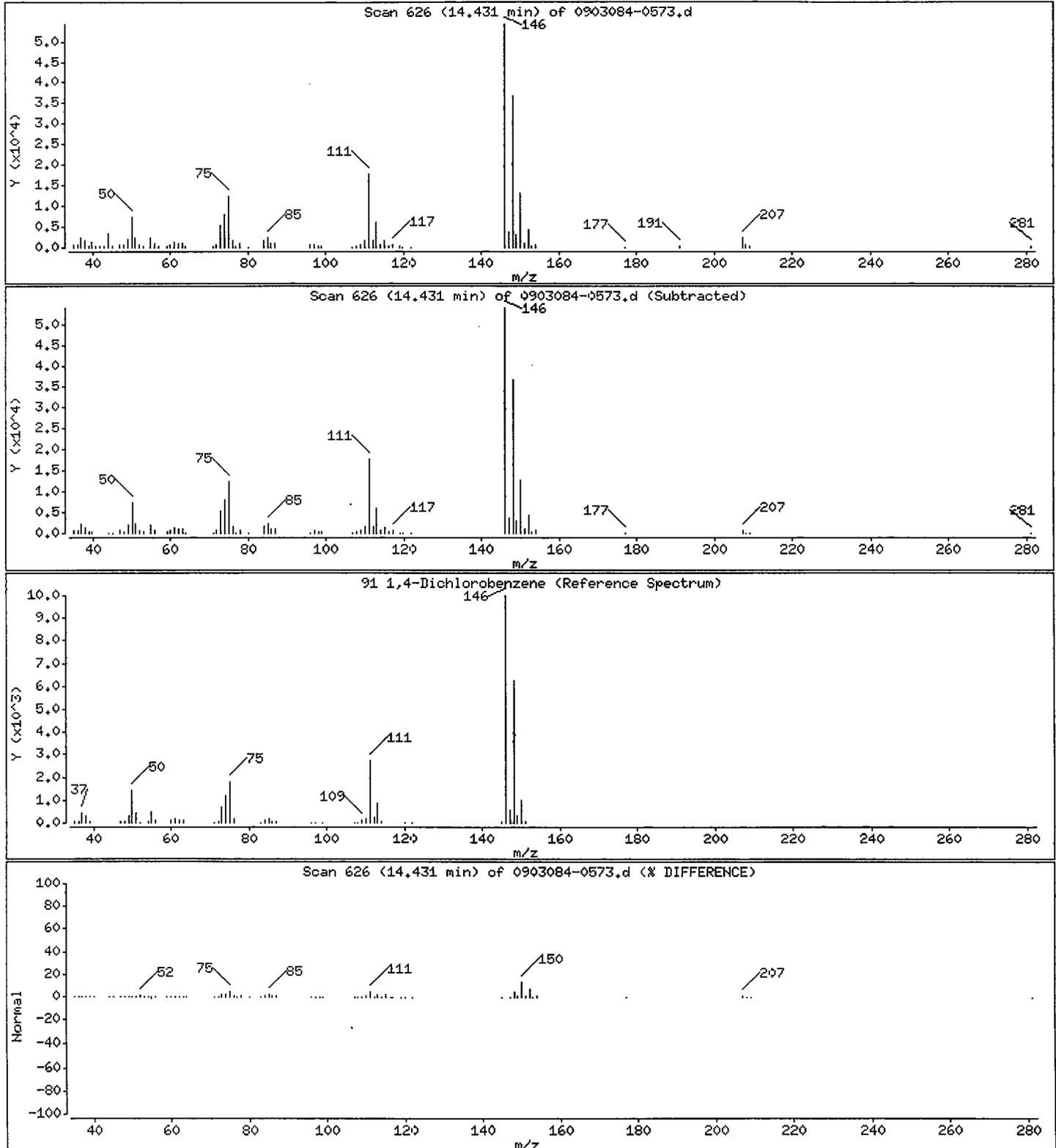
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

91 1,4-Dichlorobenzene

Concentration: 2.7 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12DL

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-05RE1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-05D73
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 4.2
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|-----|
| 75-71-8 | Dichlorodifluoromethane | 2.1 | U |
| 74-87-3 | Chloromethane | 0.57 | DJ |
| 75-01-4 | Vinyl Chloride | 2.5 | D |
| 74-83-9 | Bromomethane | 2.1 | U |
| 75-00-3 | Chloroethane | 10 | D |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U |
| 107-02-8 | Acrolein | 21 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.42 | DJ |
| 74-88-4 | Iodomethane | 2.1 | U |
| 75-15-0 | Carbon disulfide | 2.1 | U |
| 67-64-1 | Acetone | 22 | DB |
| 107-05-1 | 3-Chloropropene | 2.1 | U |
| 75-05-8 | Acetonitrile | 2.1 | U |
| 75-09-2 | Methylene Chloride | 0.89 | DJB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.71 | DJ |
| 107-13-1 | Acrylonitrile | 21 | U |
| 75-34-3 | 1,1-Dichloroethane | 23 | D |
| 108-05-4 | Vinyl acetate | 4.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 2.1 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 59 | D |
| 78-93-3 | 2-butanone | 10 | U |
| 107-12-0 | Propionitrile | 100 | U |
| 74-97-5 | Bromochloromethane | 2.1 | U |
| 126-98-7 | Methacrylonitrile | 21 | U |
| 67-66-3 | Chloroform | 0.65 | DJ |
| 71-55-6 | 1,1,1-Trichloroethane | 2.1 | U |
| 56-23-5 | Carbon Tetrachloride | 2.1 | U |
| 563-58-6 | 1,1-dichloropropene | 2.1 | U |
| 71-43-2 | Benzene | 2.1 | U |
| 107-06-2 | 1,2-Dichloroethane | 2.1 | U |
| 78-83-1 | Isobutyl alcohol | 100 | U |
| 79-01-6 | Trichloroethene | 5.2 | D |
| 78-87-5 | 1,2-Dichloropropane | 0.67 | DJ |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12DL

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-05RE1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-05D73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 4.2

Soil Extract Volume: _____ (uL)

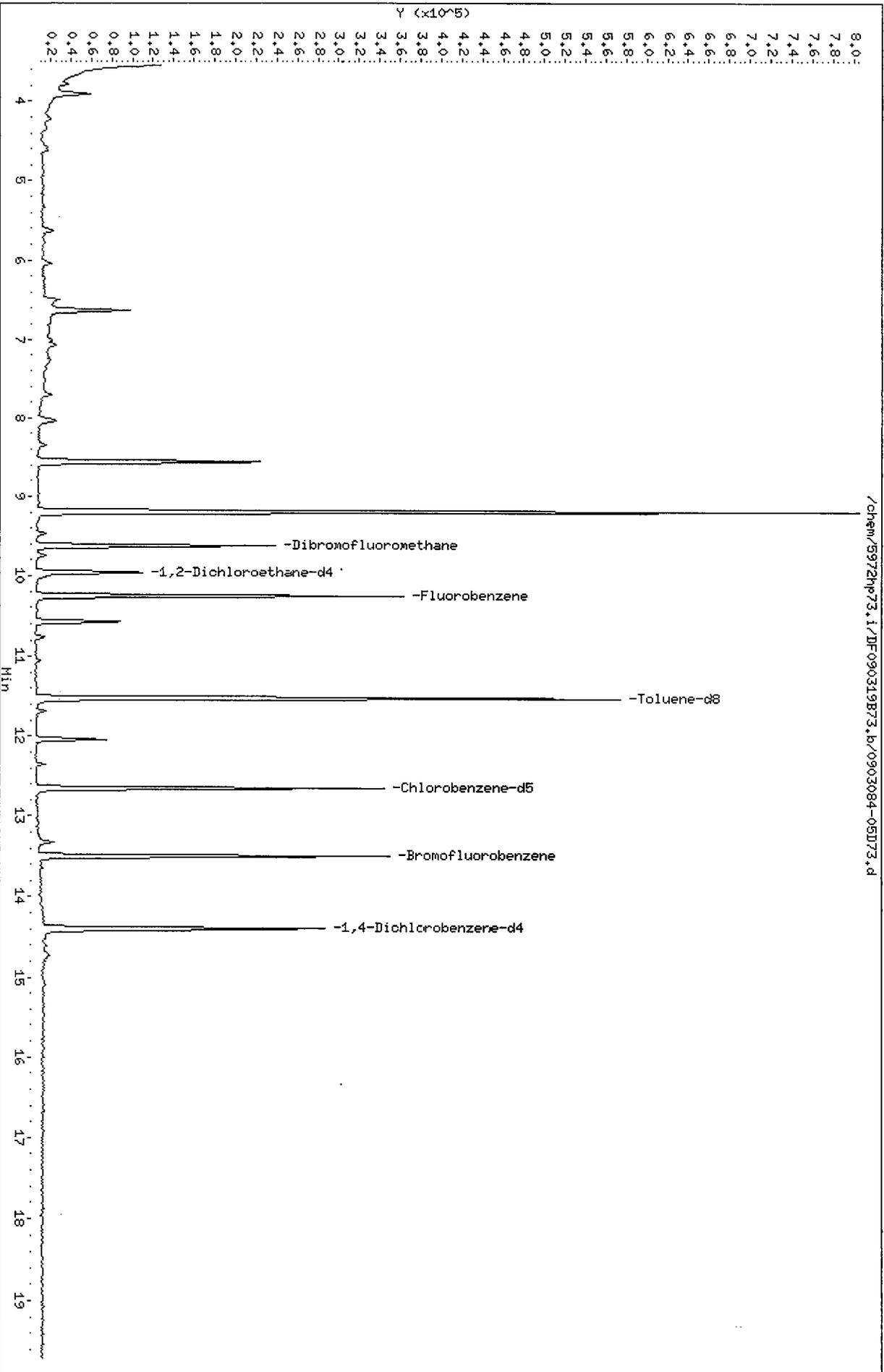
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|----|
| 74-95-3 | Dibromomethane | 2.1 | U |
| 80-62-6 | Methylmethacrylate | 21 | U |
| 75-27-4 | Bromodichloromethane | 2.1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U |
| 108-88-3 | Toluene | 2.1 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 2.1 | U |
| 97-63-2 | Ethylmethacrylate | 21 | U |
| 127-18-4 | Tetrachloroethene | 3.7 | D |
| 142-28-9 | 1,3-Dichloropropane | 2.1 | U |
| 591-78-6 | 2-hexanone | 10 | U |
| 124-48-1 | Dibromochloromethane | 2.1 | U |
| 108-90-7 | Chlorobenzene | 0.42 | DJ |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.1 | U |
| 100-41-4 | Ethylbenzene | 2.1 | U |
| 108-38-3 | m,p-Xylene | 4.2 | U |
| 95-47-6 | o-Xylene | 2.1 | U |
| 100-42-5 | Styrene | 2.1 | U |
| 75-25-2 | Bromoform | 2.1 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 2.1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.1 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 8.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.9 | D |
| 95-50-1 | 1,2-Dichlorobenzene | 2.1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.1 | U |
| 87-68-3 | Hexachlorobutadiene | 2.1 | U |
| 91-20-3 | Naphthalene | 2.1 | U |
| 1330-20-7 | Xylene (total) | 2.1 | U |
| 126-99-8 | Chloroprene | 2.1 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d
Date: 20-MAR-2009 00:27
Client ID: MW-12DL
Sample Info: 0903084-05RE1.TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data/file : /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d
 Lab Smp Id: 0903084-05RE1 Client Smp ID: MW-12DL
 Inj Date : 20-MAR-2009 00:27
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 0903084-05RE1:TD
 Misc Info : MW-12DL
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 7
 Dil Factor: 4.17000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 4.17000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 4.17000 | dilution factor |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | CONCENTRATIONS | | | | | | |
|----------------------------|-----------|----------------|------------------------|--------|---------|----------|-----------------|---------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | 10.250 | 10.253 | (1.000) | 319273 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.653 | 12.656 | (1.000) | 203761 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.394 | 14.397 | (1.000) | 88851 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.623 | 9.626 | (0.939) | 143736 | 140.497 | 23 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.971 | 9.957 | (0.973) | 81013 | 117.578 | 20 |
| \$ 6 Toluene-d8 | 98 | | 11.538 | 11.542 | (0.912) | 440386 | 127.819 | 21 |
| \$ 7 Bromofluorobenzene | 95 | | 13.488 | 13.492 | (0.937) | 127579 | 106.604 | 18 |
| 8 Dichlorodifluoromethane | 85 | | Compound Not Detected. | | | | | |
| 9 Chloromethane | 50 | | 3.894 | 4.351 | (0.380) | 3697 | 3.42580 | 0.57 (a) |
| 10 Vinyl Chloride | 62 | | 4.626 | 4.612 | (0.451) | 7606 | 14.8010 | 2.5 |
| 11 Bromomethane | 94 | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | 5.636 | 5.639 | (0.550) | 12687 | 62.0513 | 10 |
| 13 Trichlorofluoromethane | 101 | | Compound Not Detected. | | | | | |
| 14 Acrolein | 56 | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | 7.011 | 7.015 | (0.684) | 2507 | 2.54635 | 0.42 (a) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-------------------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.063 | 7.067 | (0.689) | 14664 | 134.548 | 22 |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | |
| 25 Methylene Chloride | 84 | 7.708 | 7.711 | (0.752) | 5111 | 5.30633 | 0.89 (a) |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | 8.056 | 8.059 | (0.786) | 4681 | 4.27102 | 0.71 (a) |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.561 | 8.564 | (0.835) | 250072 | 137.484 | 23 |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | 9.188 | 9.191 | (0.896) | 363837 | 354.339 | 59 |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | |
| 40 Chloroform | 83 | 9.466 | 9.470 | (0.924) | 6527 | 3.87749 | 0.65 (a) |
| 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | |
| 47 Benzene | 78 | Compound Not Detected. | | | | | |
| 48 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | |
| 49 Trichloroethene | 130 | 10.581 | 10.584 | (1.032) | 35118 | 31.2793 | 5.2 |
| 51 1,2-Dichloropropane | 63 | 10.755 | 10.758 | (1.049) | 3284 | 3.98872 | 0.67 (a) |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | |
| 65 Tetrachloroethene | 164 | 12.043 | 12.047 | (0.952) | 18829 | 22.2559 | 3.7 |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | |
| 69 Chlorobenzene | 112 | 12.687 | 12.674 | (1.003) | 5659 | 2.52666 | 0.42 (a) |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | 14.429 | 14.432 | (1.002) | 30318 | 17.6796 | 2.9 |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | | | | | | |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73,i/DF090319B73,b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

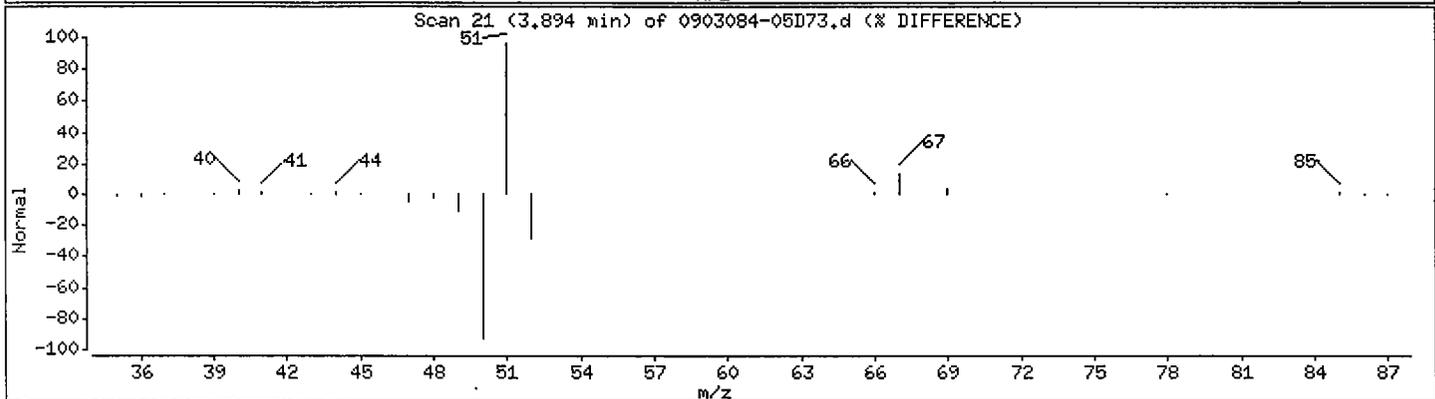
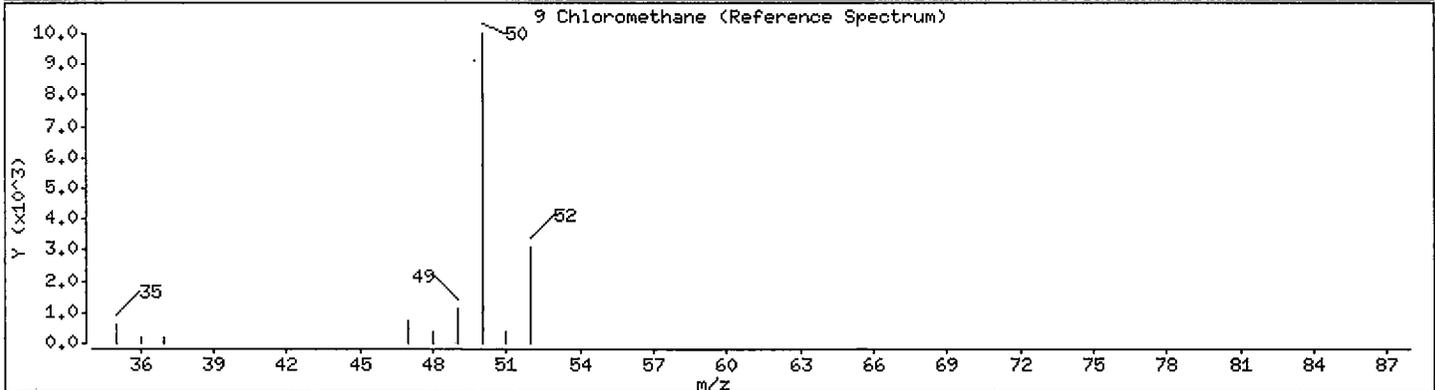
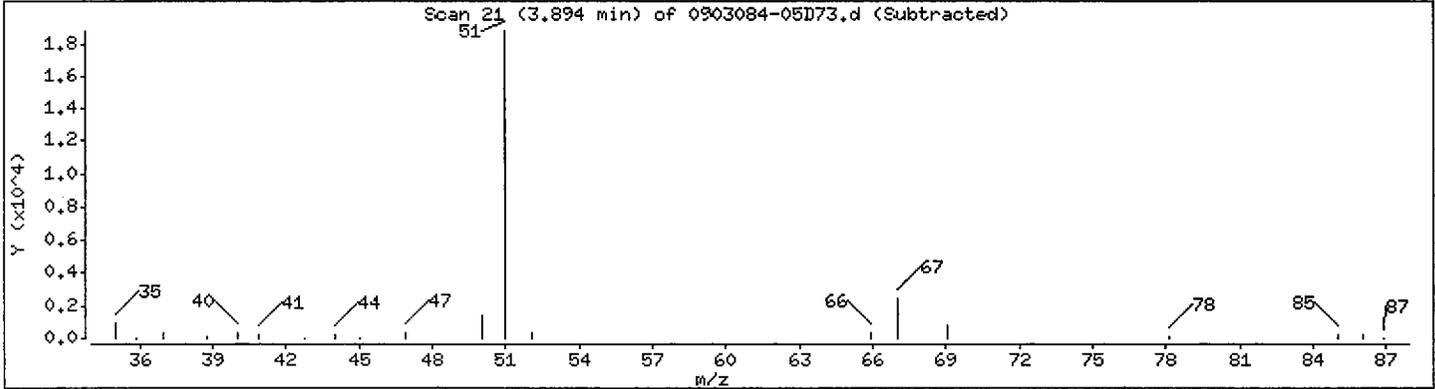
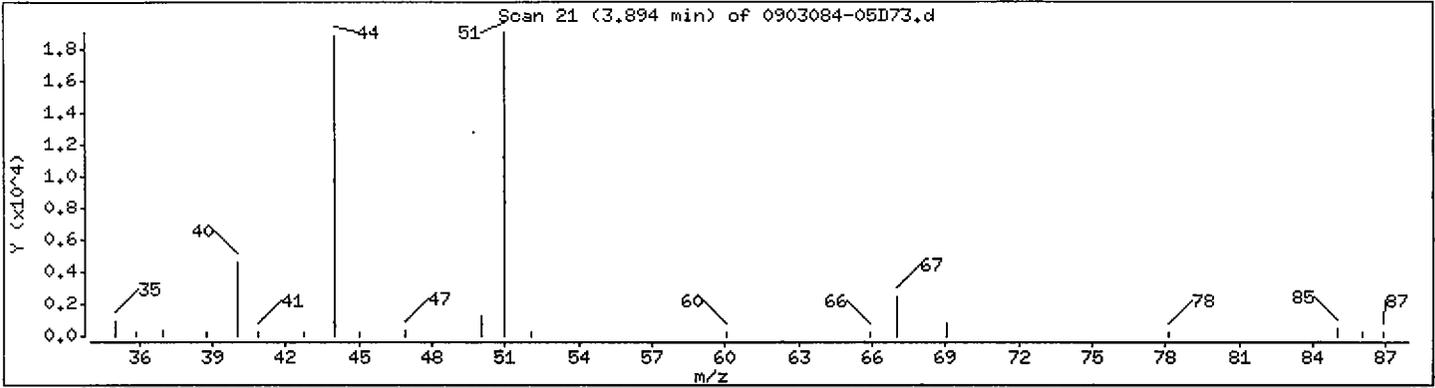
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

9 Chloromethane

Concentration: 0.57 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1;TD

Purge Volume: 25.0

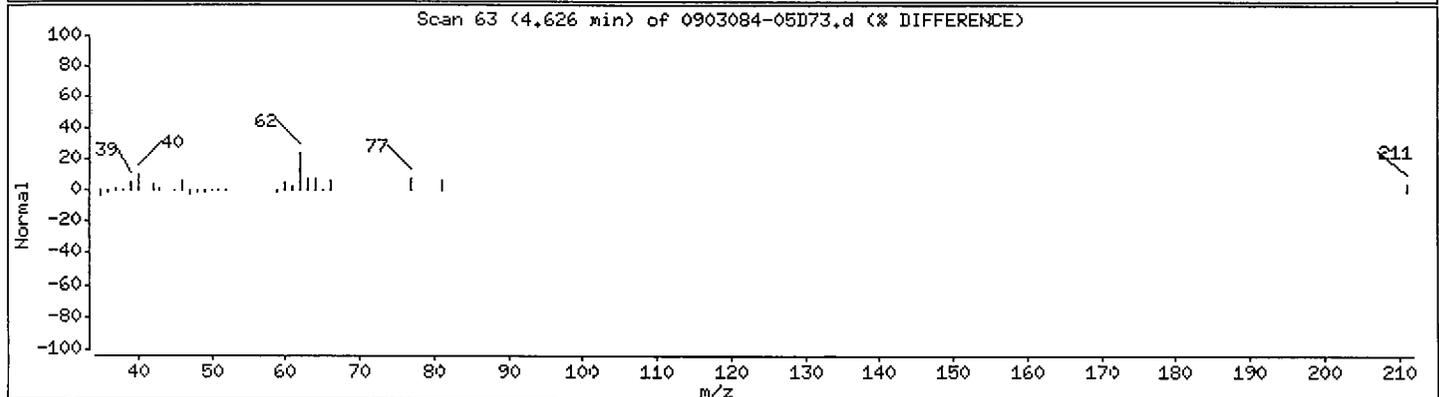
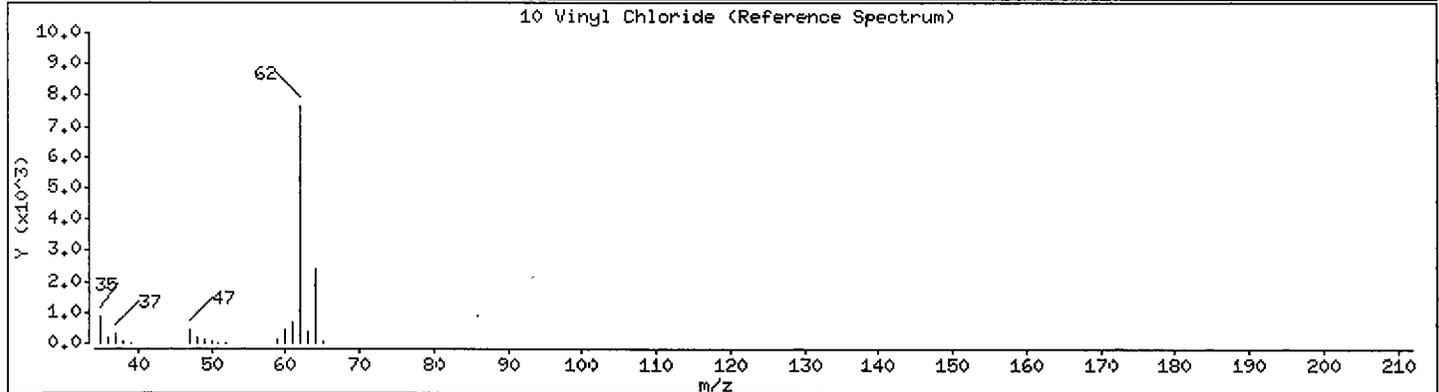
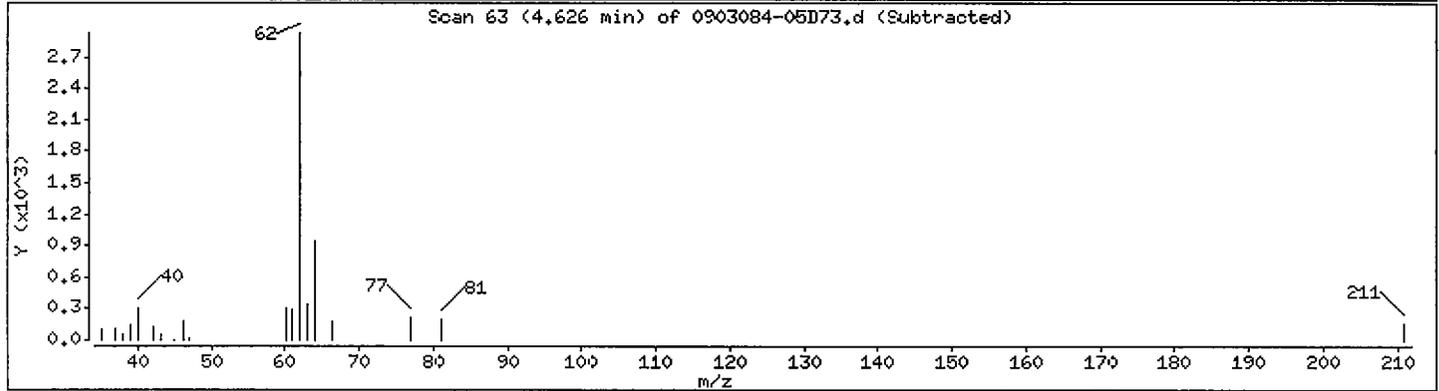
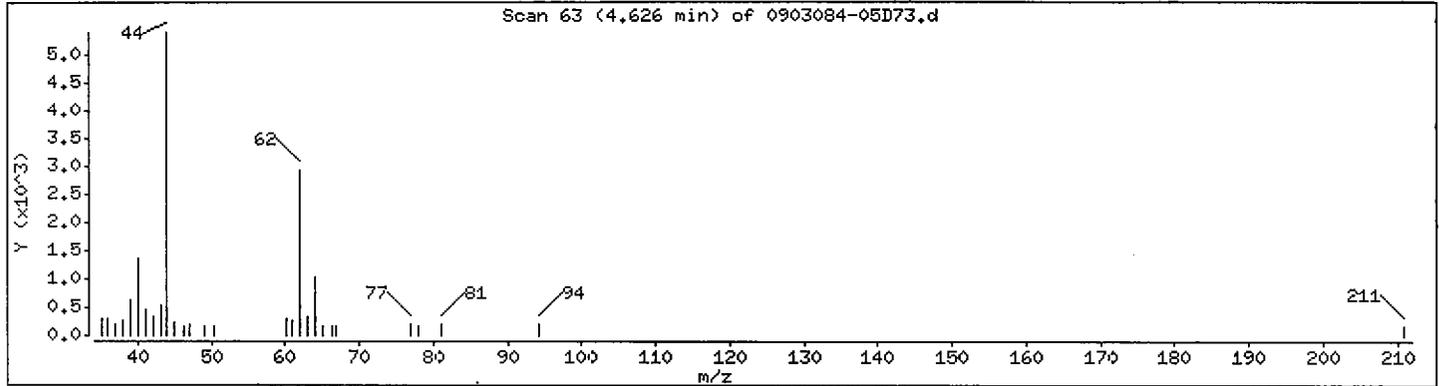
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

10 Vinyl Chloride

Concentration: 2.5 ug/L



Data File: /chem/5972hp73.i/DF090319B73,b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

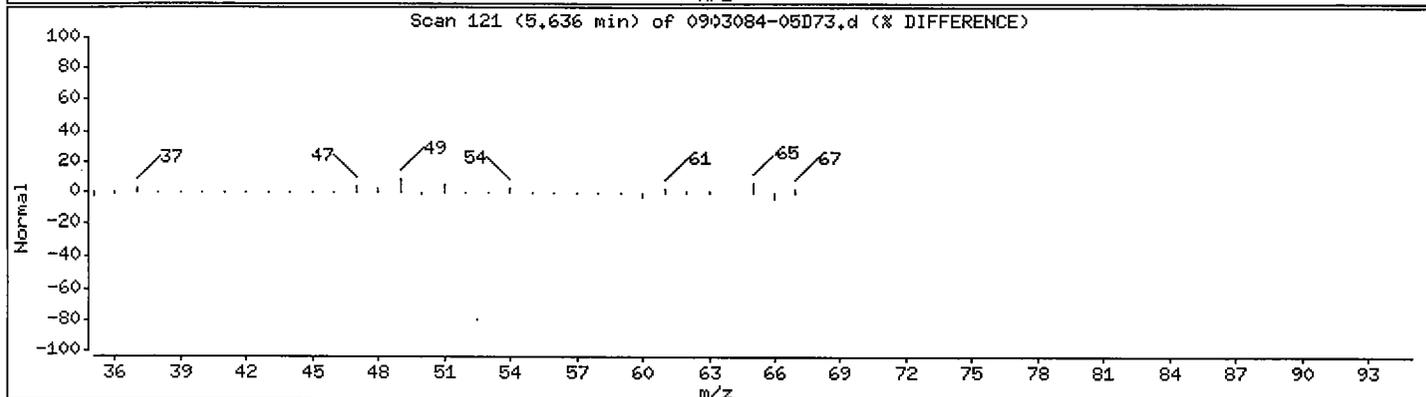
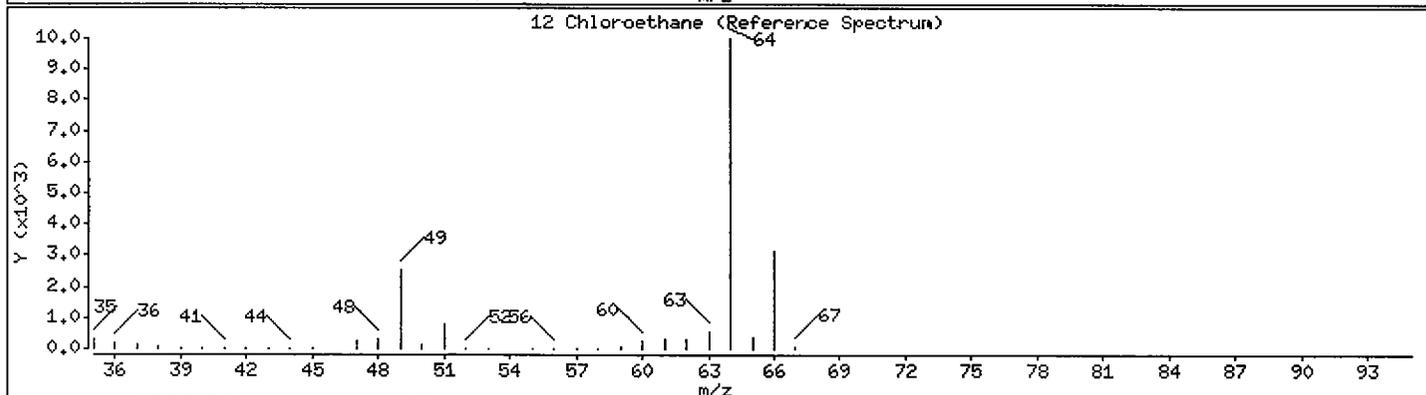
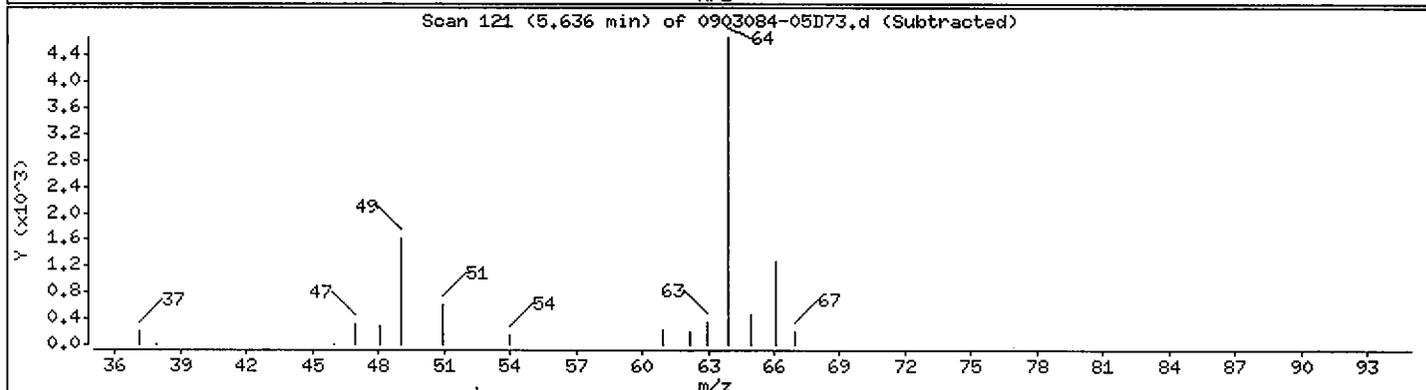
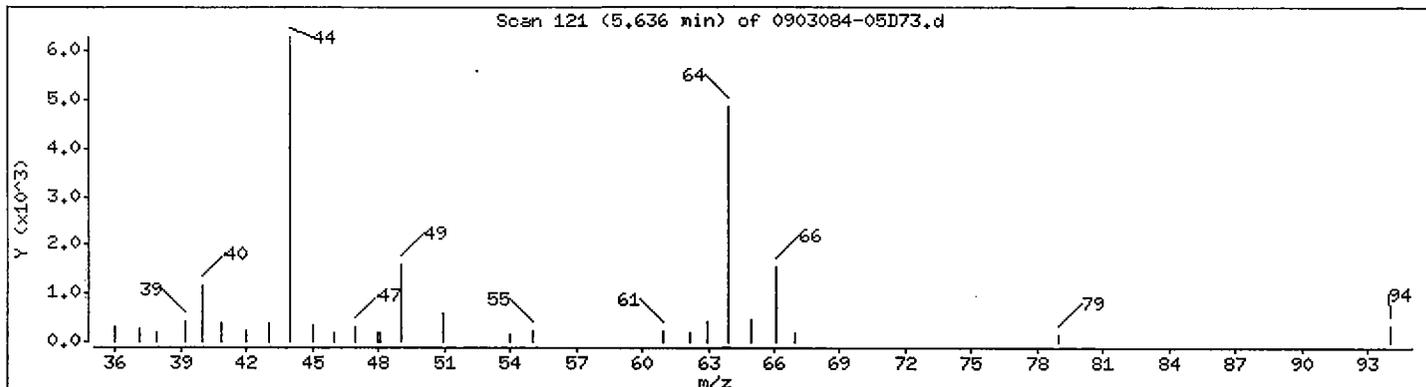
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

12 Chloroethane

Concentration: 10 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

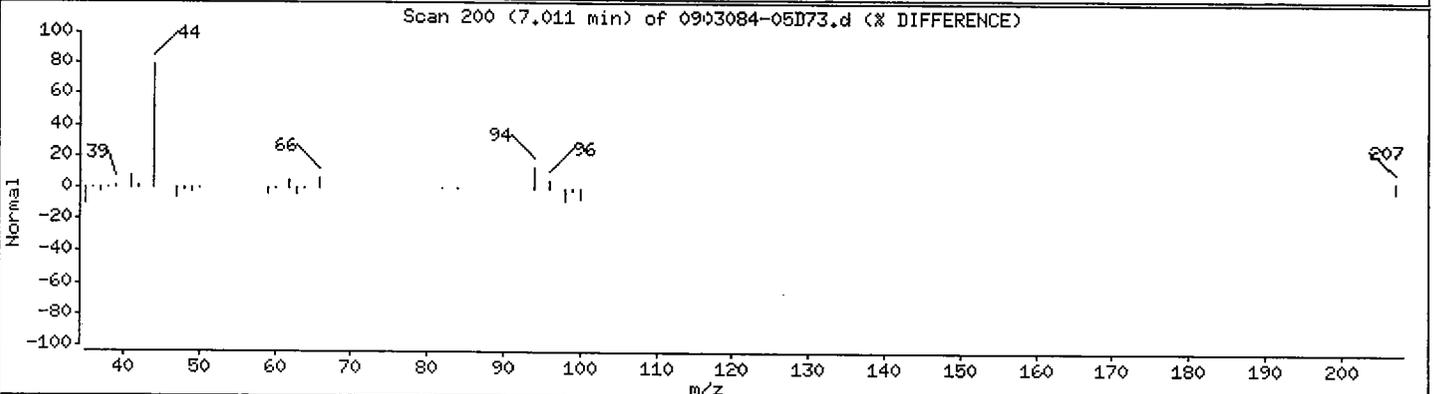
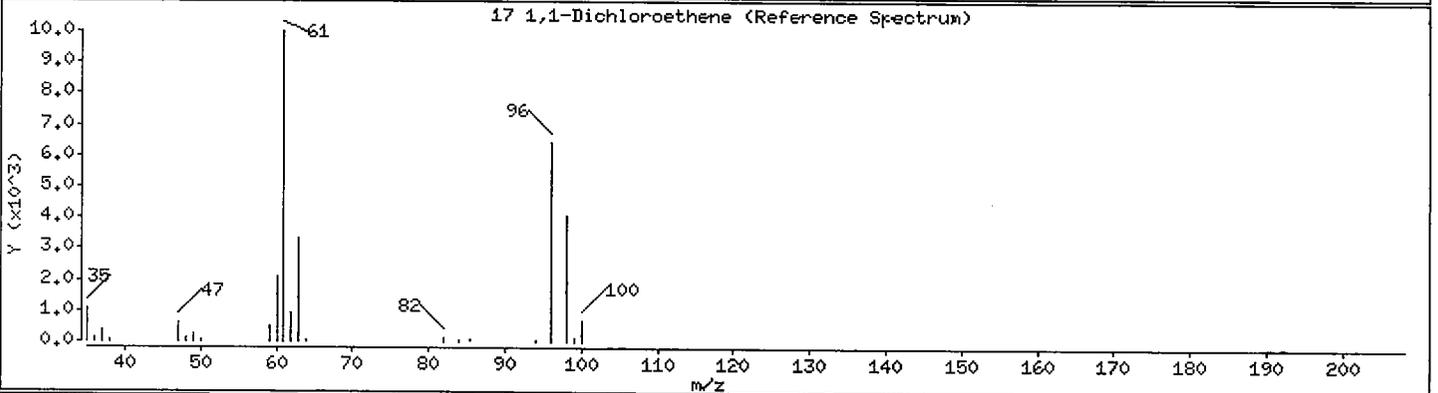
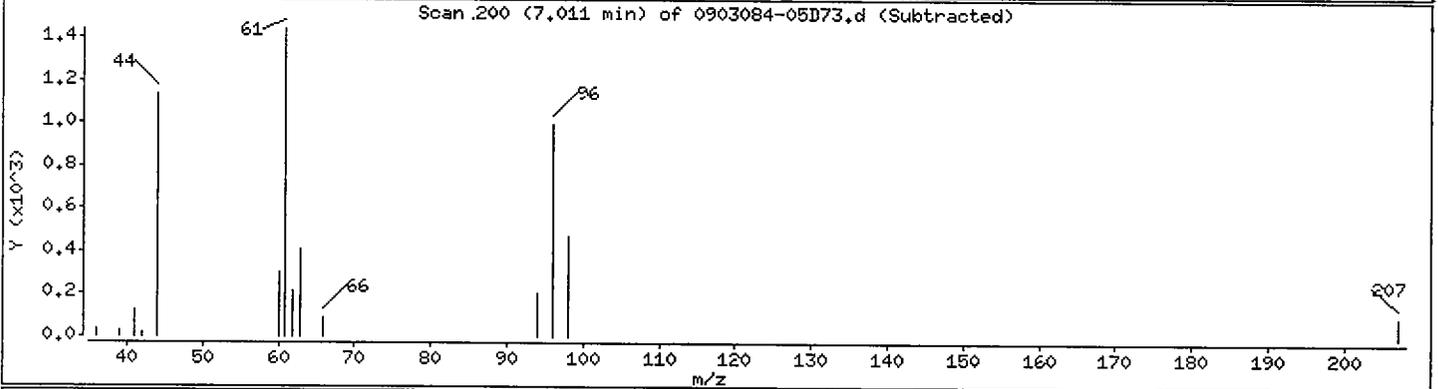
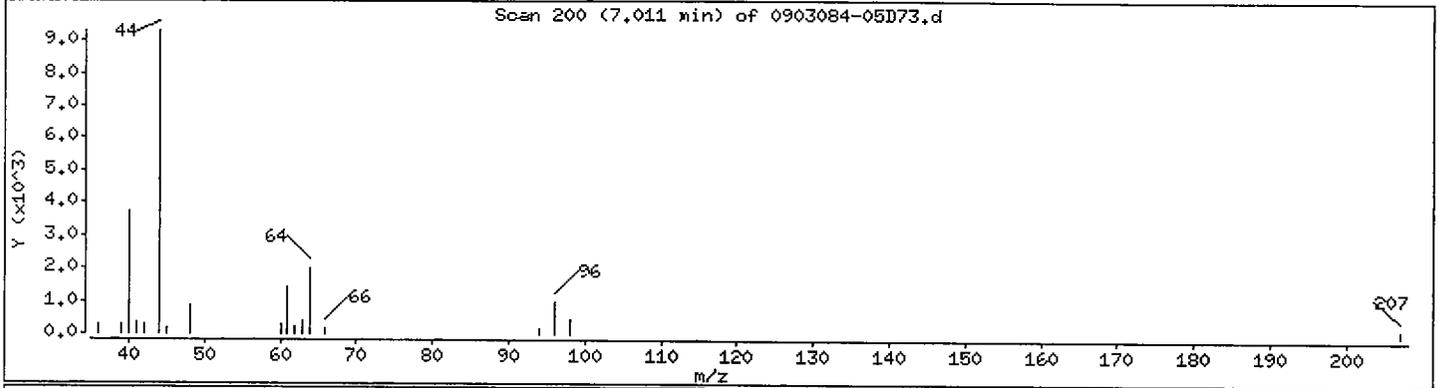
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

17 1,1-Dichloroethene

Concentration: 0.42 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1;TD

Purge Volume: 25.0

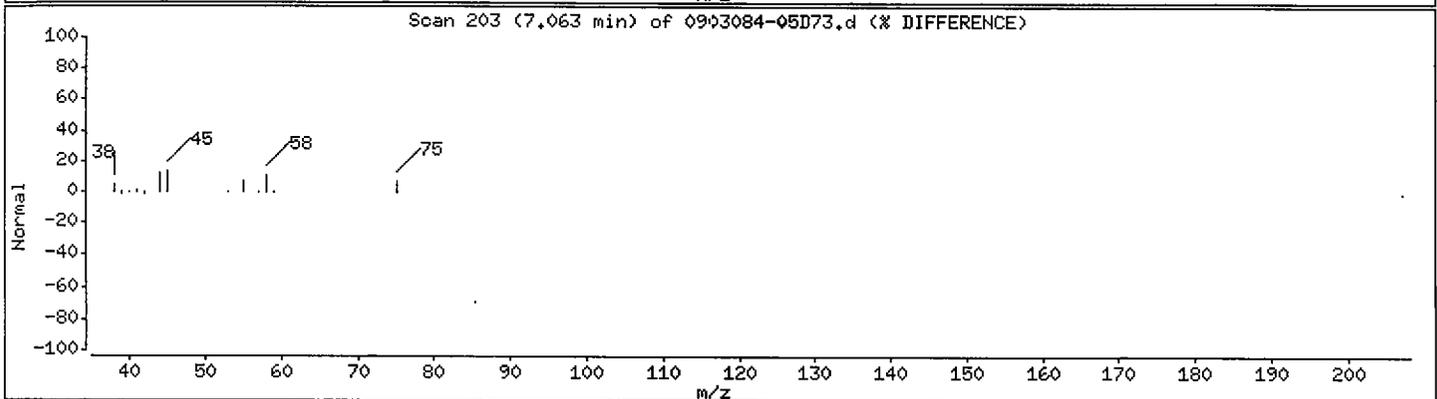
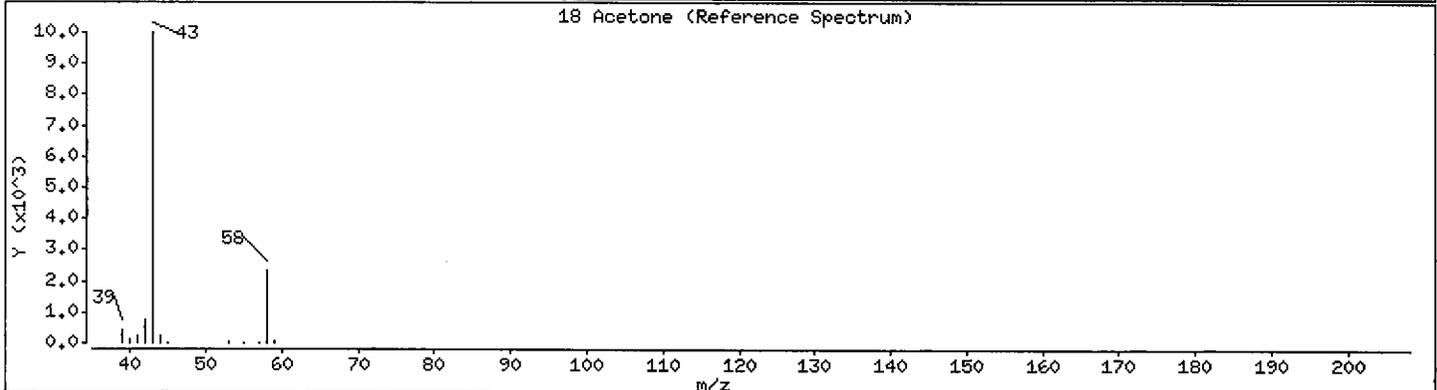
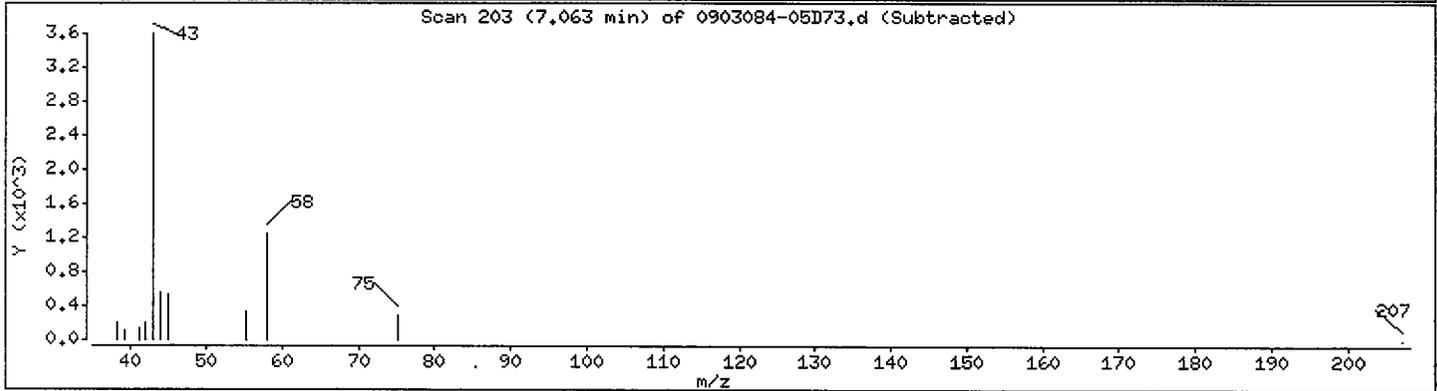
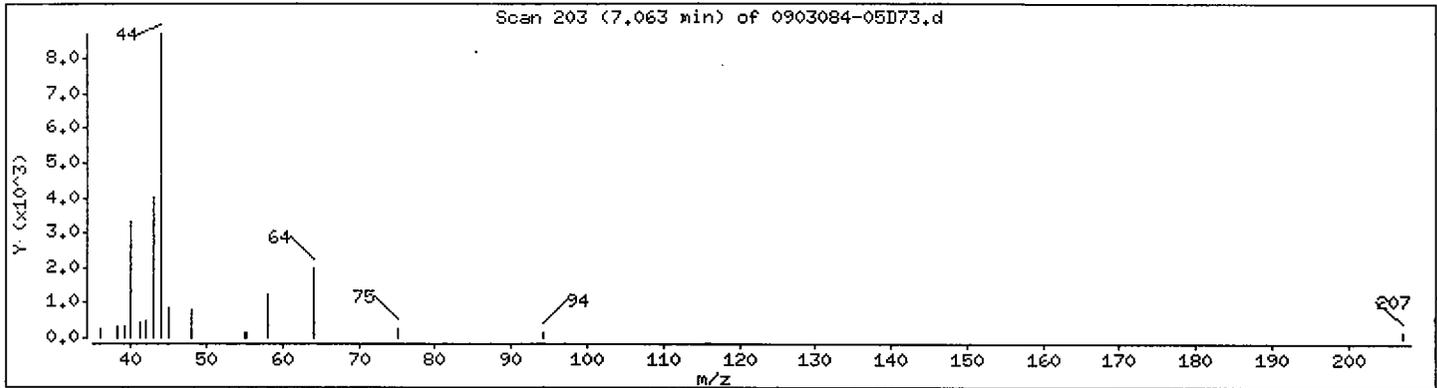
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 22 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

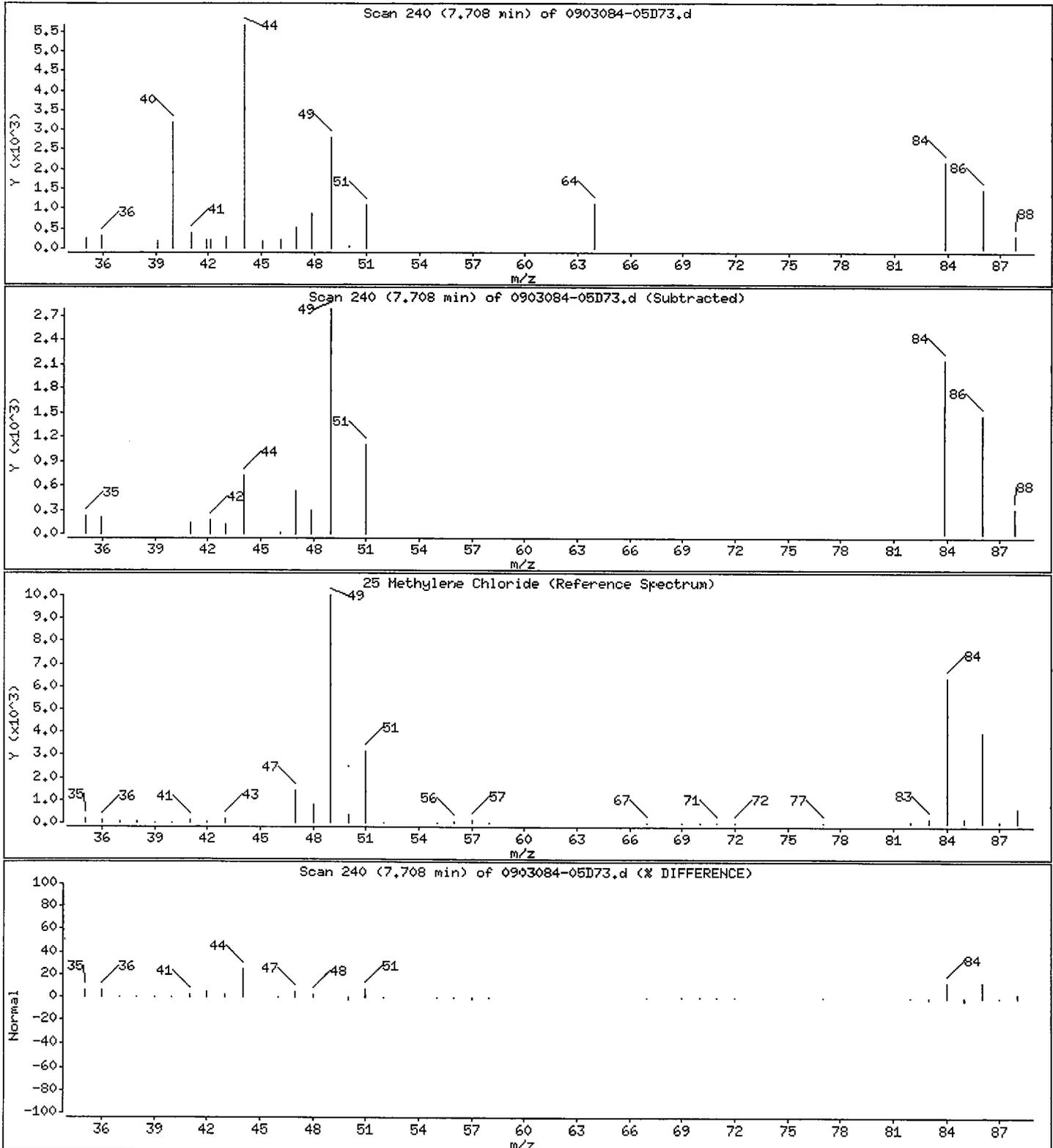
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.89 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

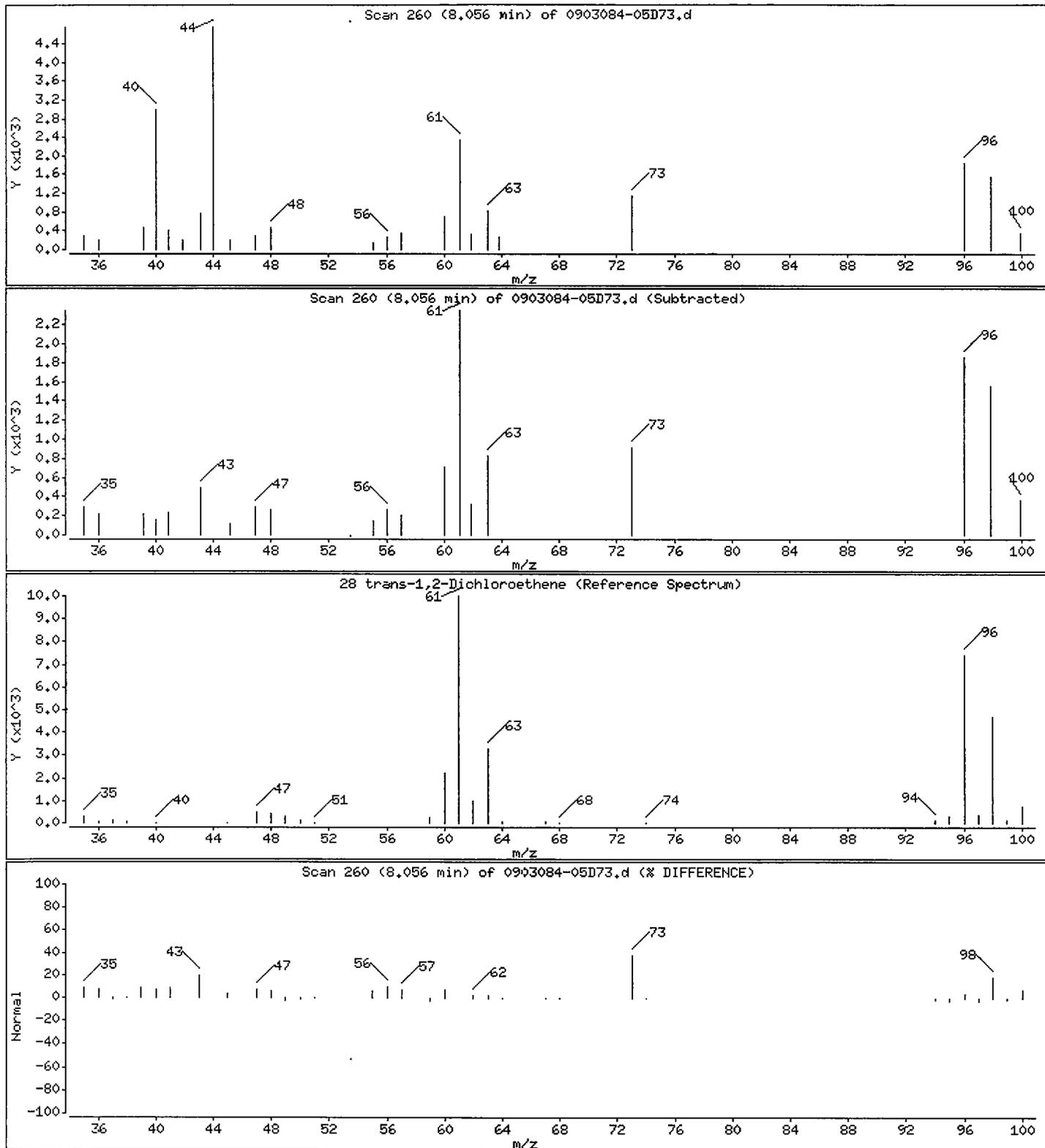
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

28 trans-1,2-Dichloroethene

Concentration: 0.71 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

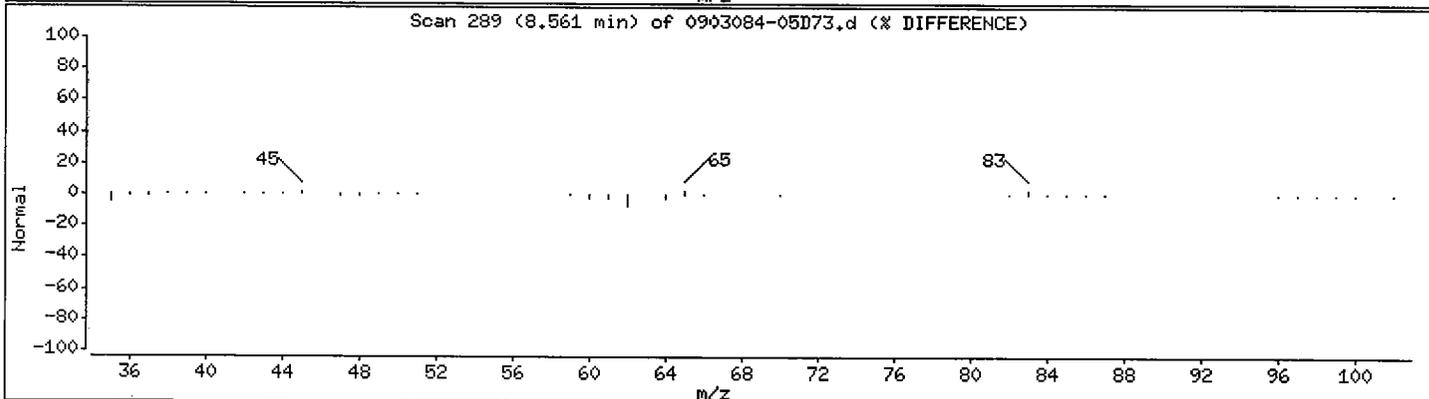
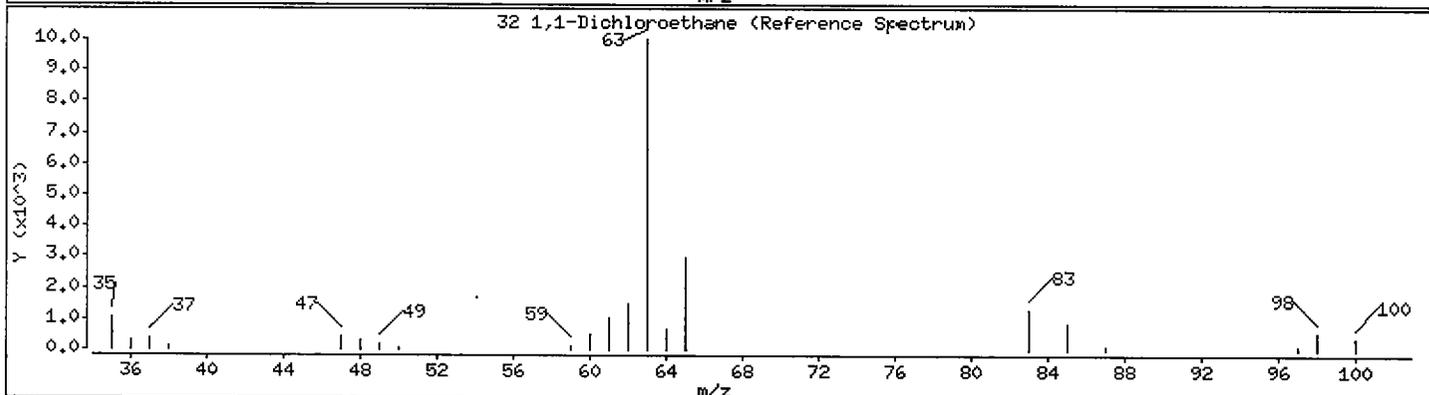
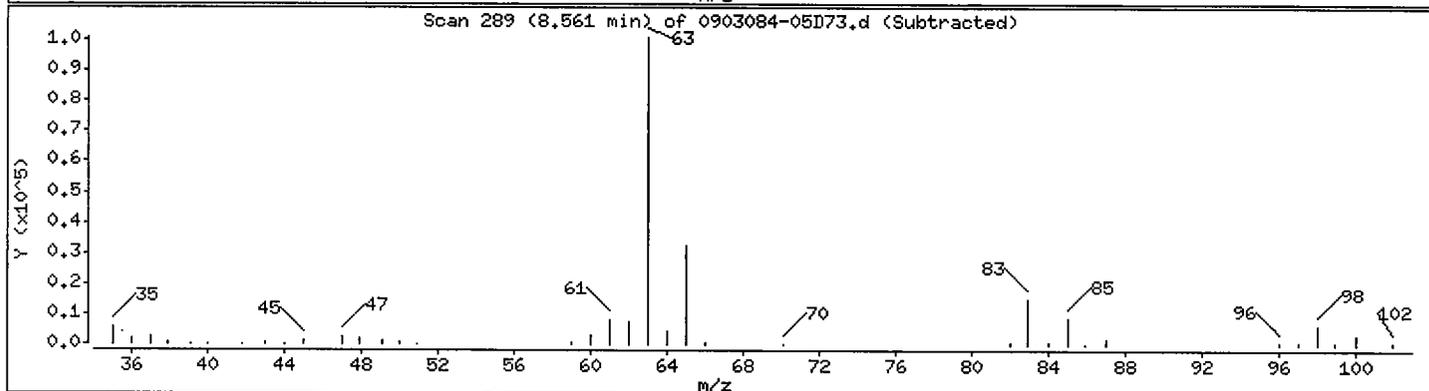
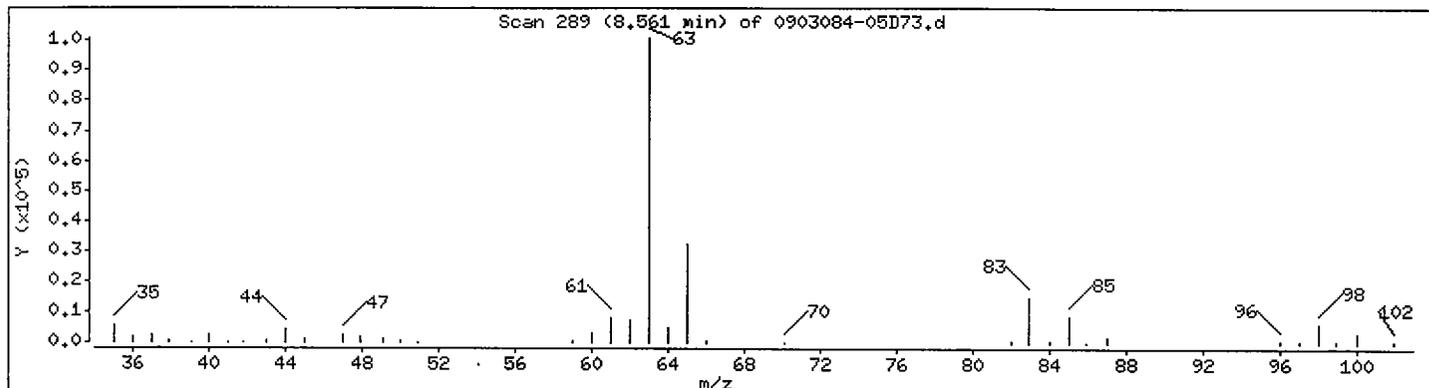
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

32 1,1-Dichloroethane

Concentration: 23 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1;TD

Purge Volume: 25.0

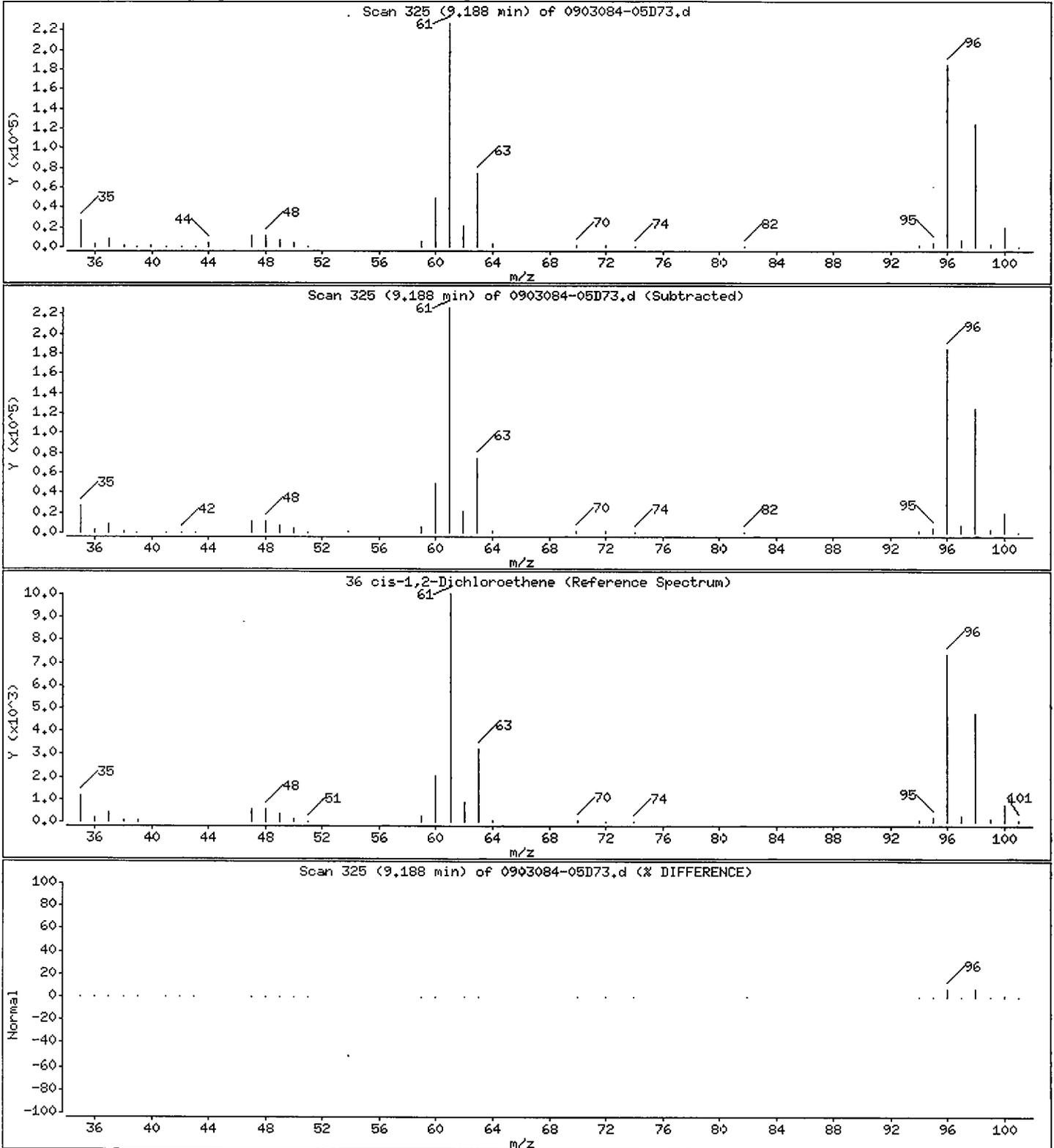
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

36 cis-1,2-Dichloroethene

Concentration: 59 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

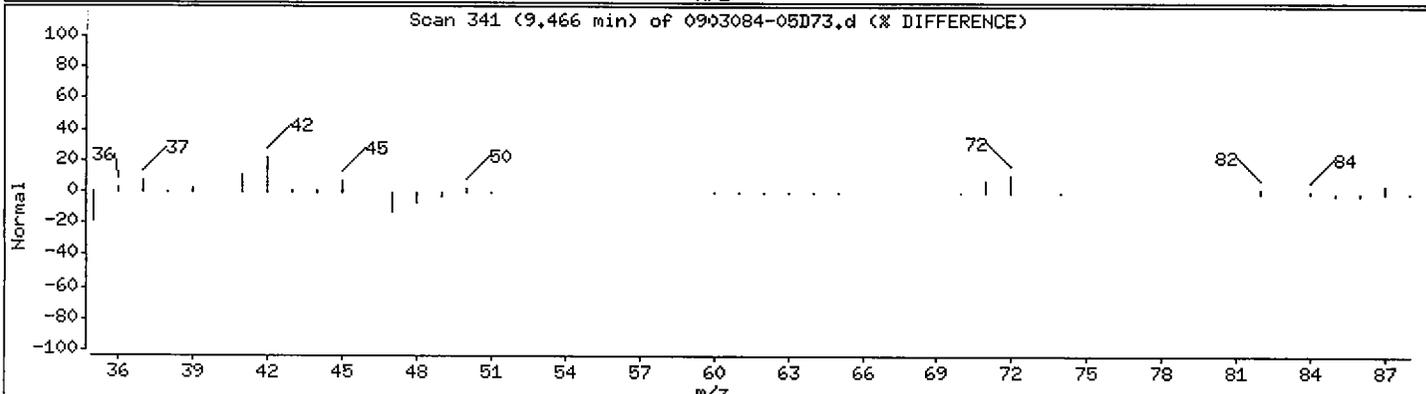
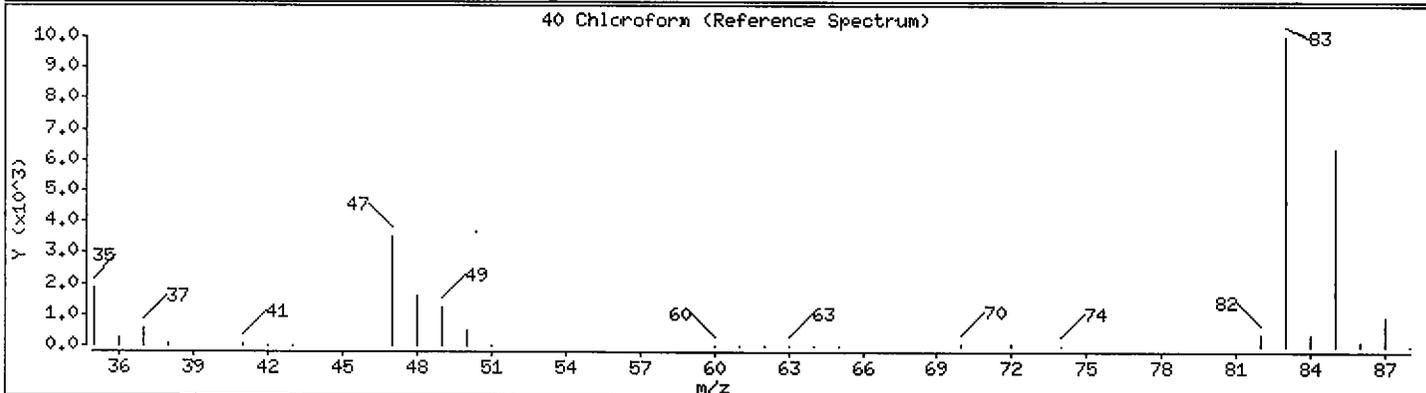
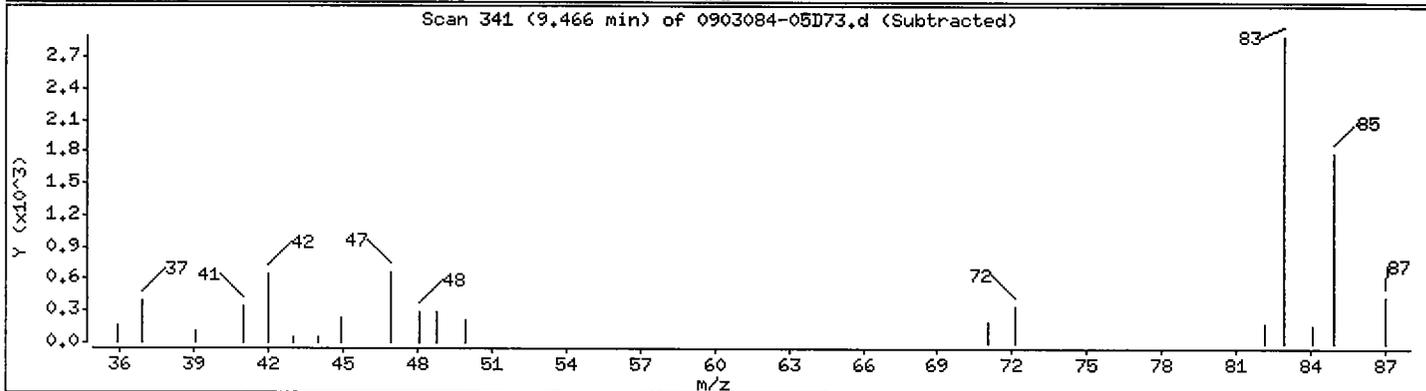
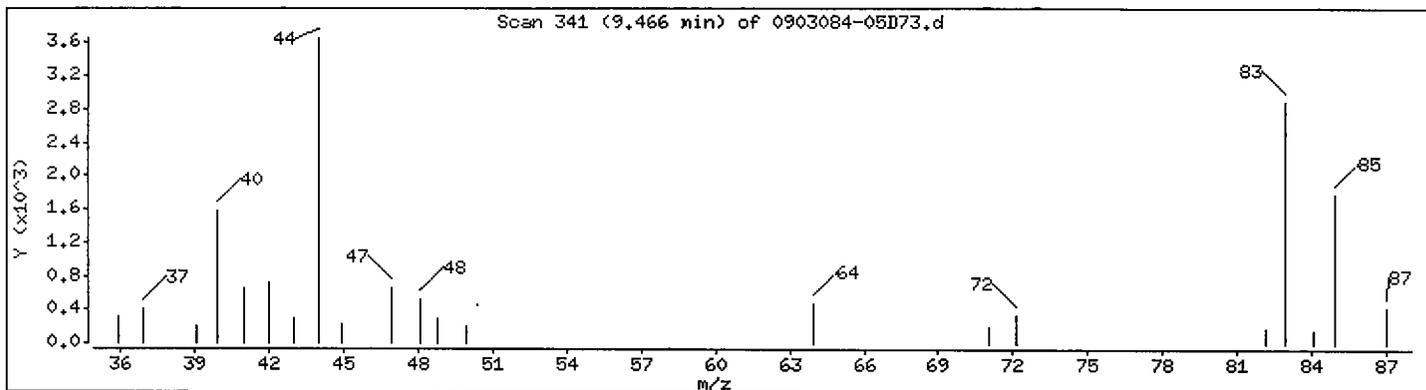
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

40 Chloroform

Concentration: 0.65 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1;TD

Purge Volume: 25.0

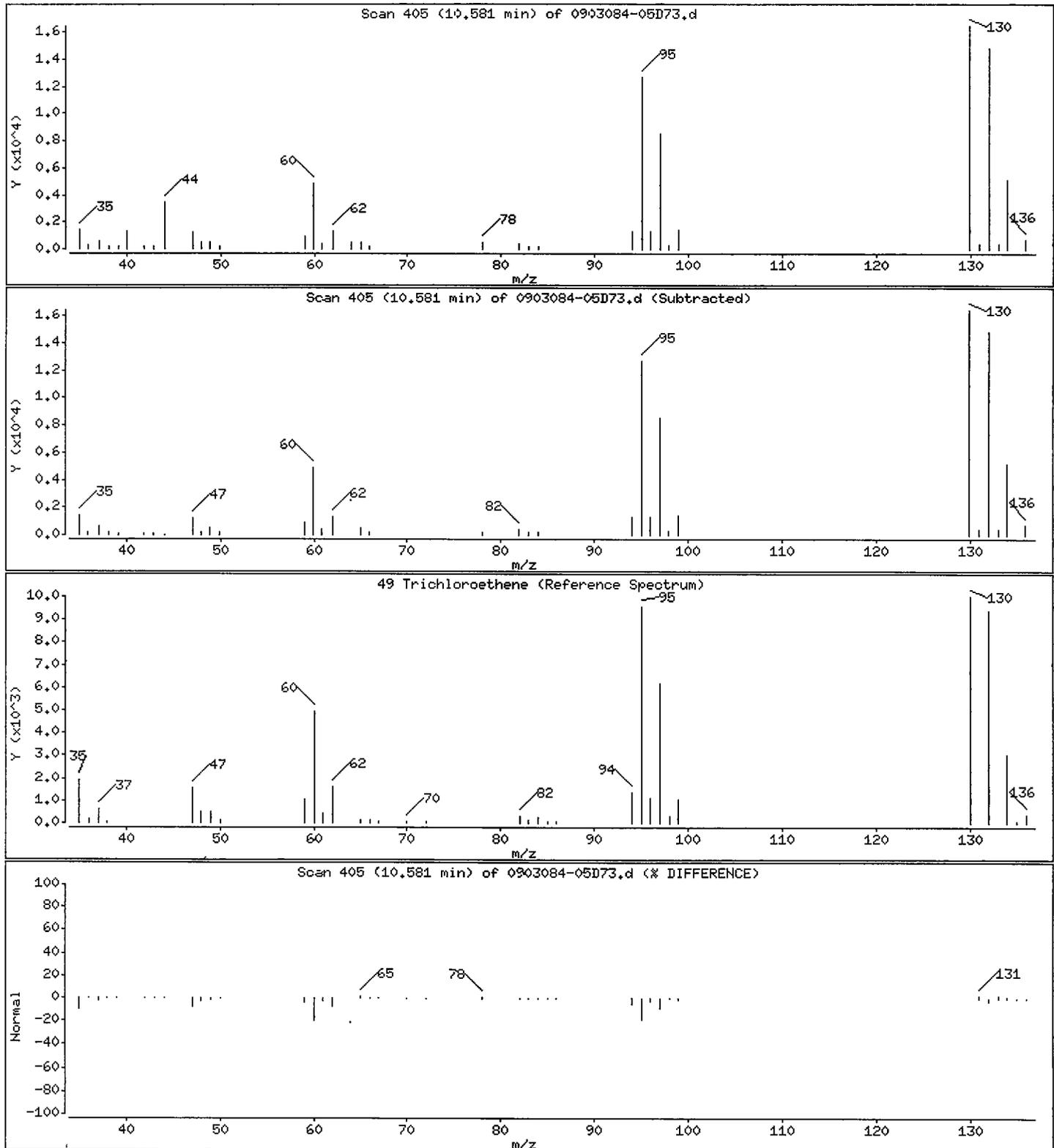
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

49 Trichloroethene

Concentration: 5.2 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

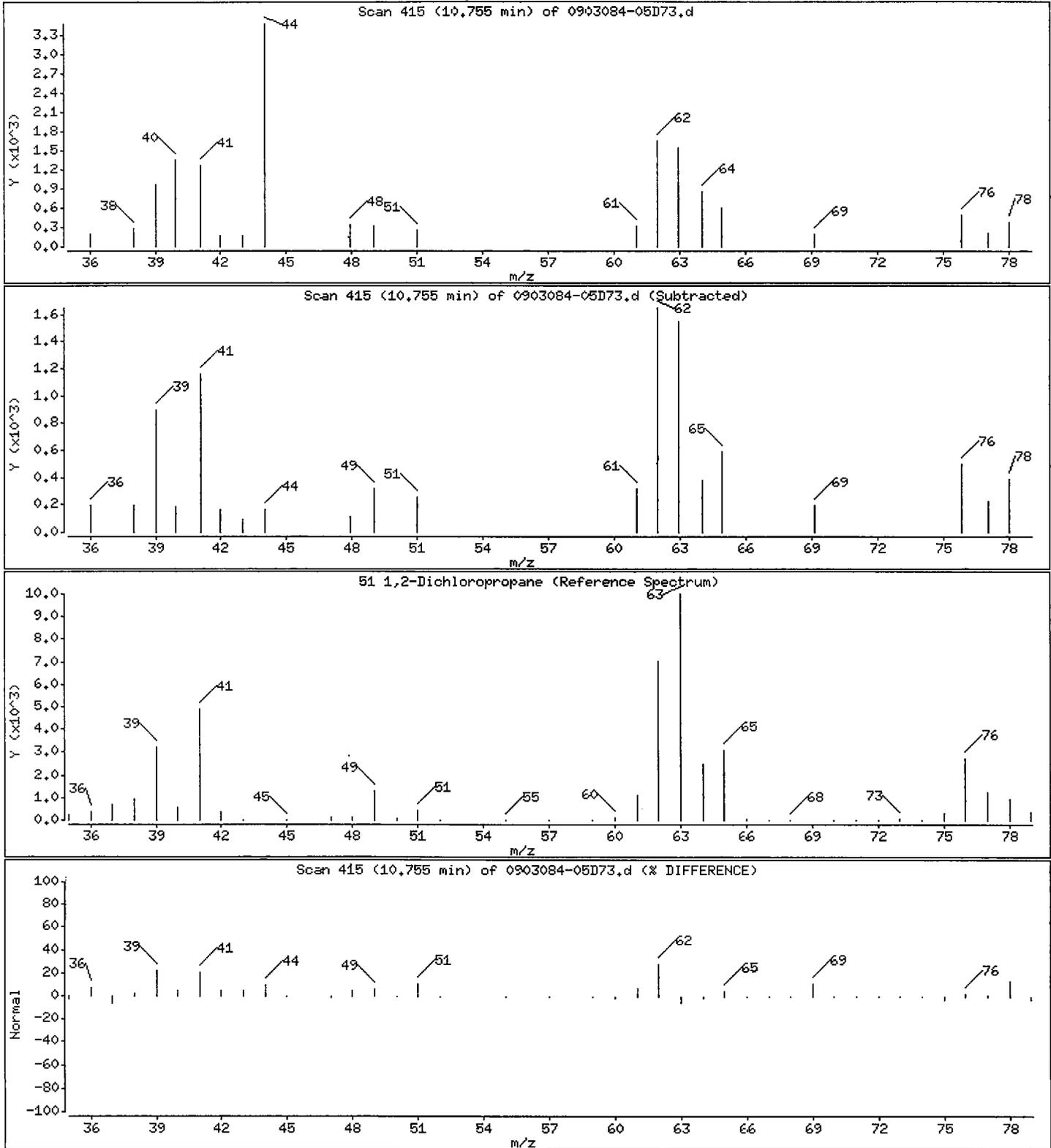
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

51 1,2-Dichloropropane

Concentration: 0.67 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

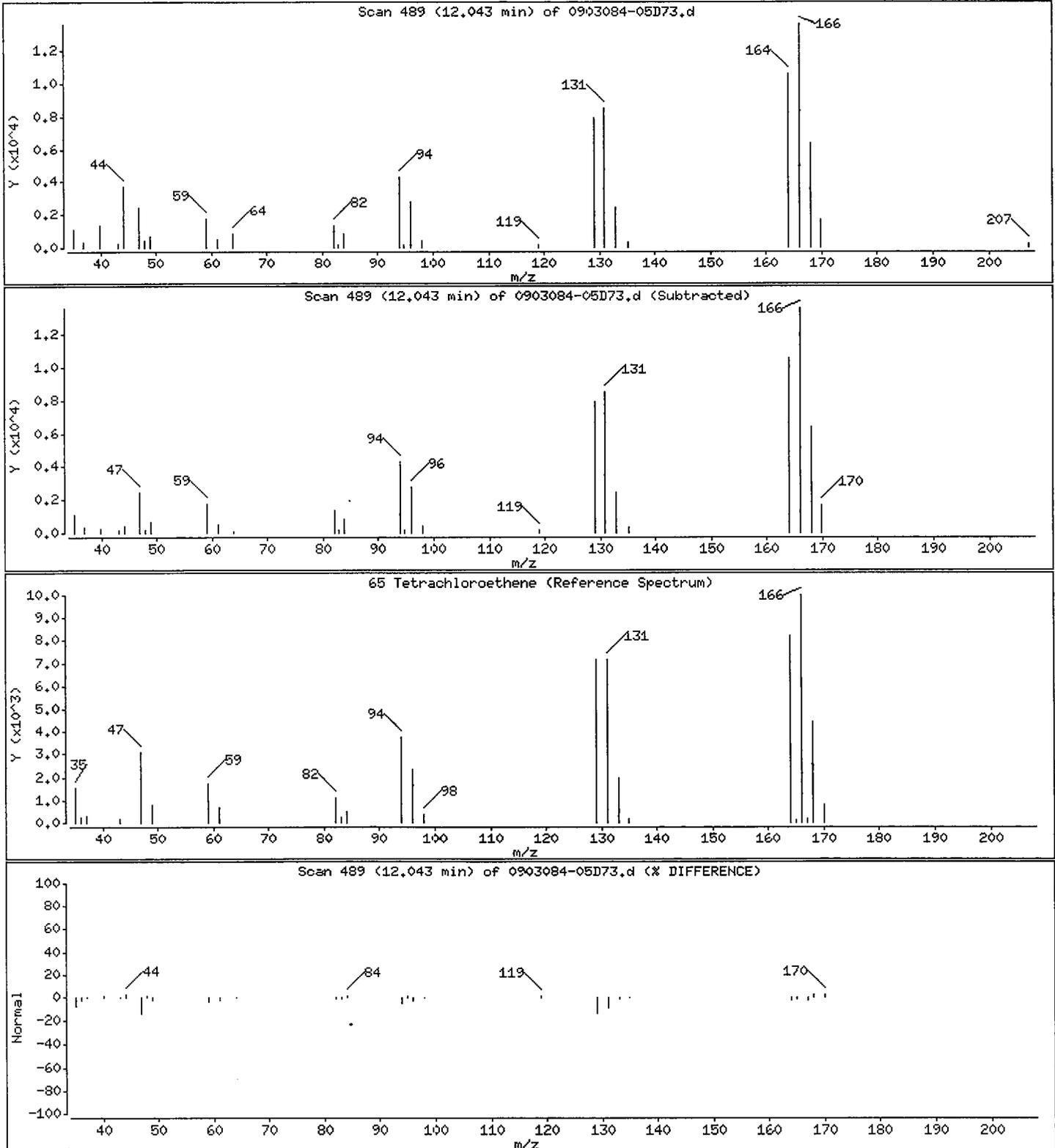
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 3.7 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

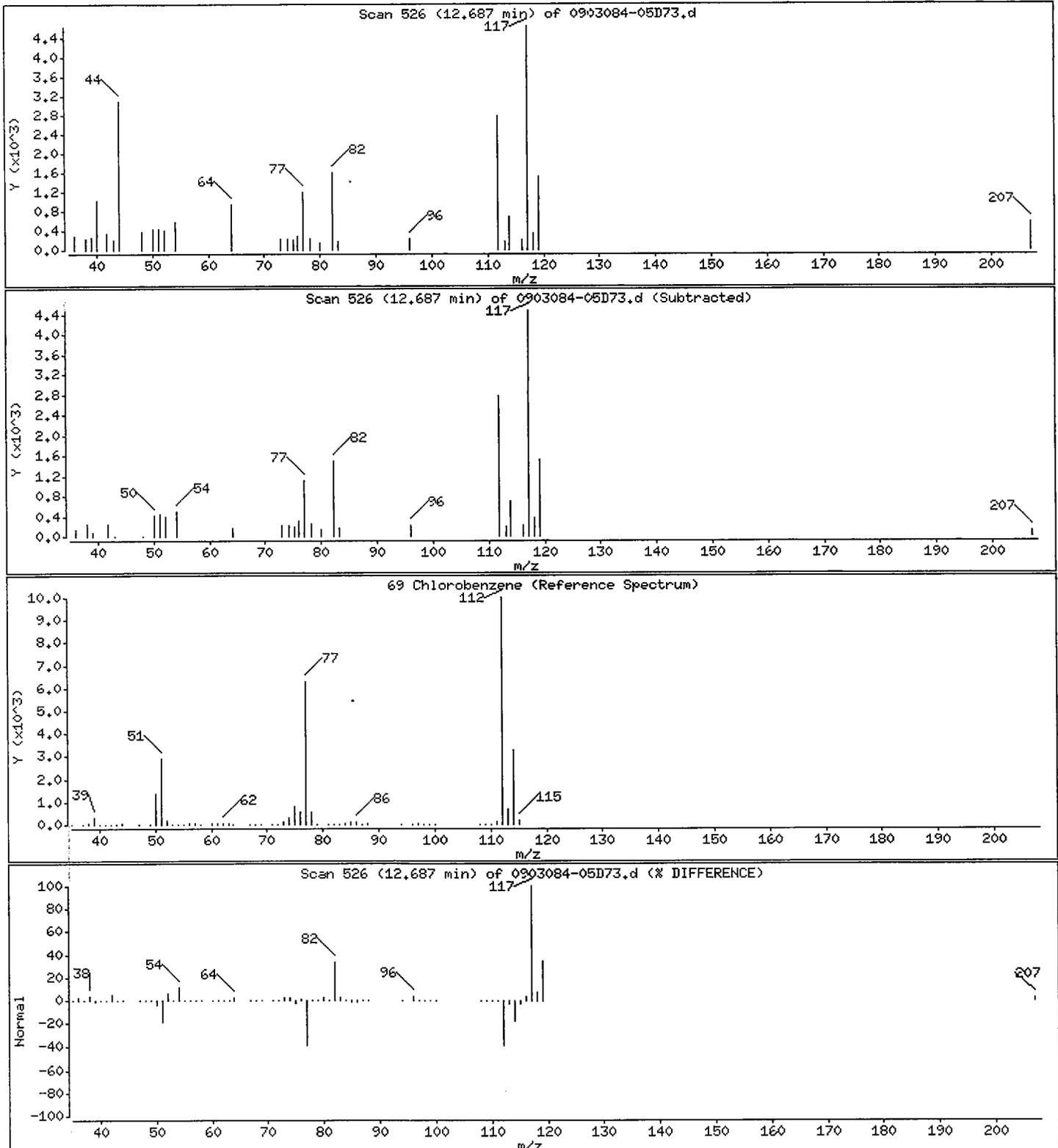
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

69 Chlorobenzene

Concentration: 0.42 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-05D73.d

Date : 20-MAR-2009 00:27

Client ID: MW-12DL

Instrument: 5972hp73.i

Sample Info: 0903084-05RE1:TD

Purge Volume: 25.0

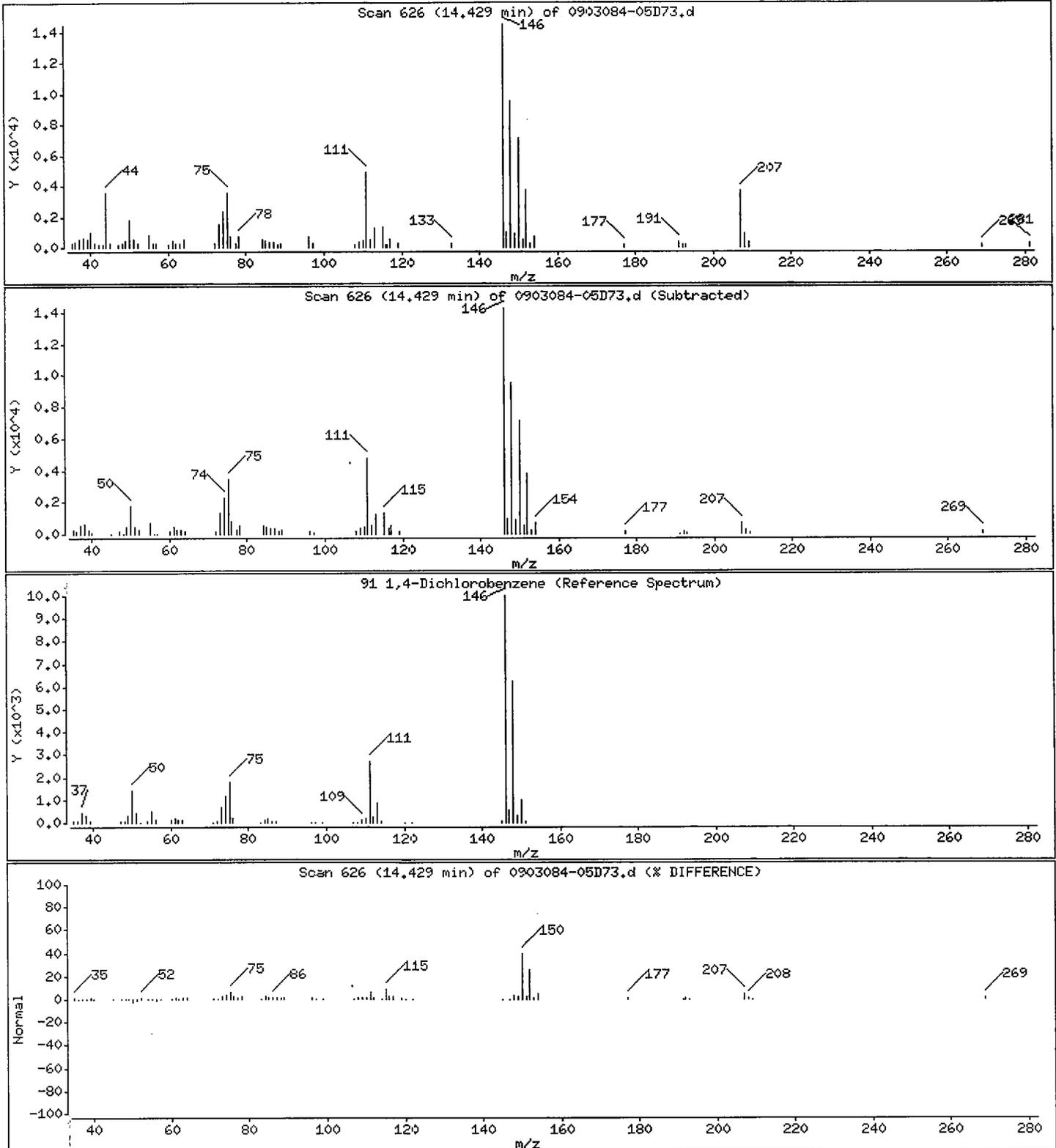
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

91 1,4-Dichlorobenzene

Concentration: 2.9 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-06

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-06R73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|----|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 4.2 | |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 2.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.20 | JB |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date: 19-MAR-2009 23:58

Client ID: MW-17

Sample Info: 0903084-06:TD

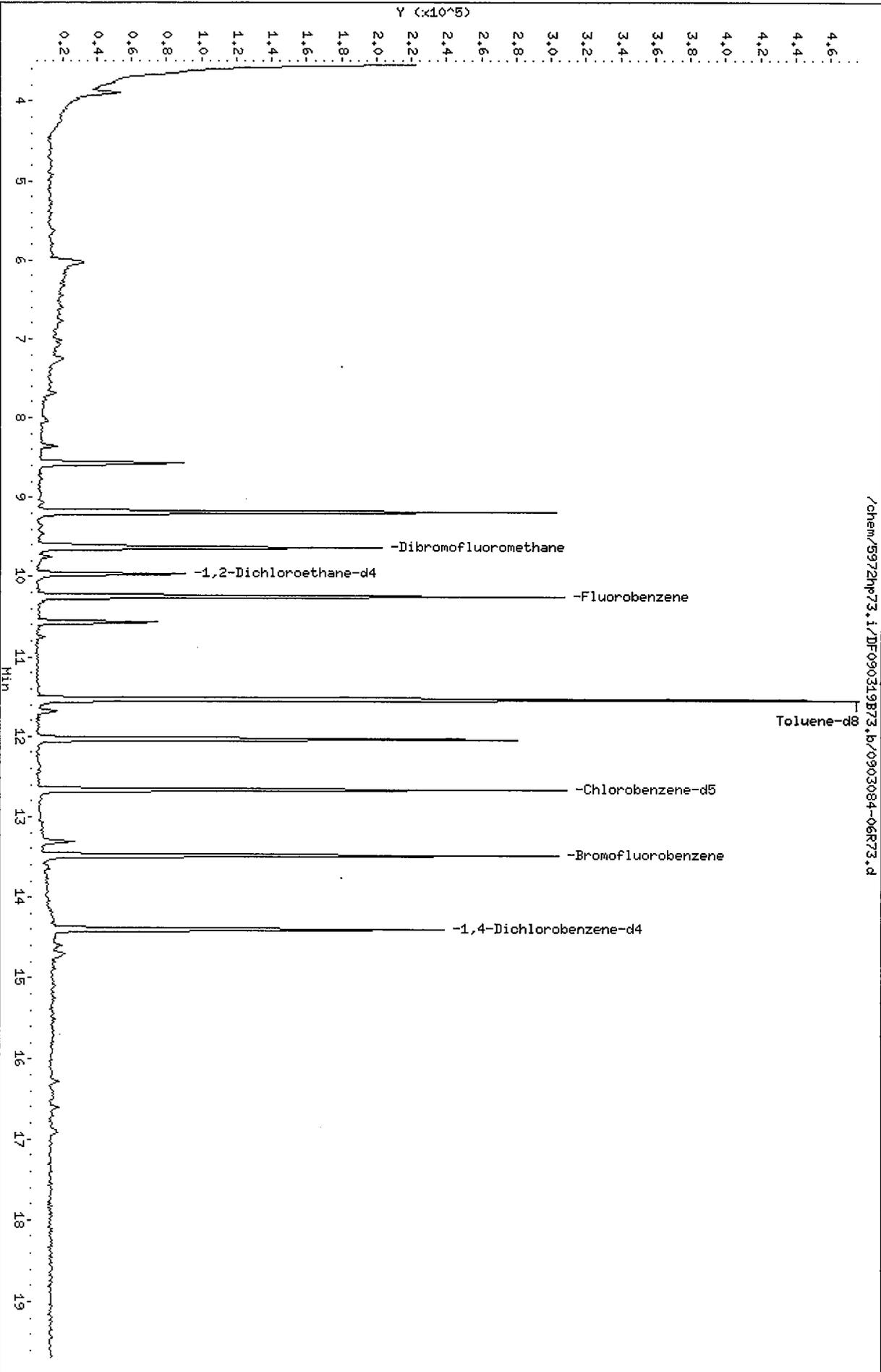
Purge Volume: 25.0

Column phase: SPB-624

Instrument: 5972hp73.i

Operator: TD

Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d
 Lab Smp Id: 0903084-06 Client Smp ID: MW-17
 Inj Date : 19-MAR-2009 23:58
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 0903084-06:TD
 Misc Info : MW-17
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|--------|--------|---------|------------------------|----------------|---------|
| | | | | | | | | ON-COLUMN | FINAL |
| | | | | | | | | (ng) | (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.250 | 10.253 | (1.000) | 276910 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.653 | 12.656 | (1.000) | 177572 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.394 | 14.397 | (1.000) | 75349 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.623 | 9.626 | (0.939) | 117639 | 132.579 | 5.3 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.954 | 9.957 | (0.971) | 61701 | 103.249 | 4.1 |
| \$ 6 Toluene-d8 | 98 | | | 11.538 | 11.542 | (0.912) | 383166 | 127.613 | 5.1 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.489 | 13.492 | (0.937) | 105141 | 103.598 | 4.1 |
| 8 Dichlorodifluoromethane | 85 | | | | | | Compound Not Detected. | | |
| 9 Chloromethane | 50 | | | | | | Compound Not Detected. | | |
| 10 Vinyl Chloride | 62 | | | | | | Compound Not Detected. | | |
| 11 Bromomethane | 94 | | | | | | Compound Not Detected. | | |
| 12 Chloroethane | 64 | | | | | | Compound Not Detected. | | |
| 13 Trichlorofluoromethane | 101 | | | | | | Compound Not Detected. | | |
| 14 Acrolein | 56 | | | | | | Compound Not Detected. | | |
| 17 1,1-Dichloroethene | 96 | | | | | | Compound Not Detected. | | |

Handwritten signature
 3/20/09

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-------------------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.063 | 7.067 | (0.689) | 6272 | 66.3523 | 2.7 |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | |
| 25 Methylene Chloride | 84 | 7.708 | 7.711 | (0.752) | 3266 | 3.90956 | 0.16 (a) |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.561 | 8.564 | (0.835) | 91869 | 58.2345 | 2.3 |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | 9.188 | 9.191 | (0.896) | 136128 | 152.856 | 6.1 |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | |
| 40 Chloroform | 83 | Compound Not Detected. | | | | | |
| 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | |
| 47 Benzene | 78 | Compound Not Detected. | | | | | |
| 48 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | |
| 49 Trichloroethene | 130 | 10.563 | 10.584 | (1.031) | 27882 | 28.6335 | 1.1 |
| 51 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | |
| 65 Tetrachloroethene | 164 | 12.043 | 12.047 | (0.952) | 78085 | 105.909 | 4.2 |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | |
| 69 Chlorobenzene | 112 | Compound Not Detected. | | | | | |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | | | | | | |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | 16.605 | 16.609 | (1.154) | 5210 | 5.10039 | 0.20 (a) |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date : 19-MAR-2009 23:58

Client ID: MW-17

Instrument: 5972hp73.i

Sample Info: 0903084-06;TD

Purge Volume: 25.0

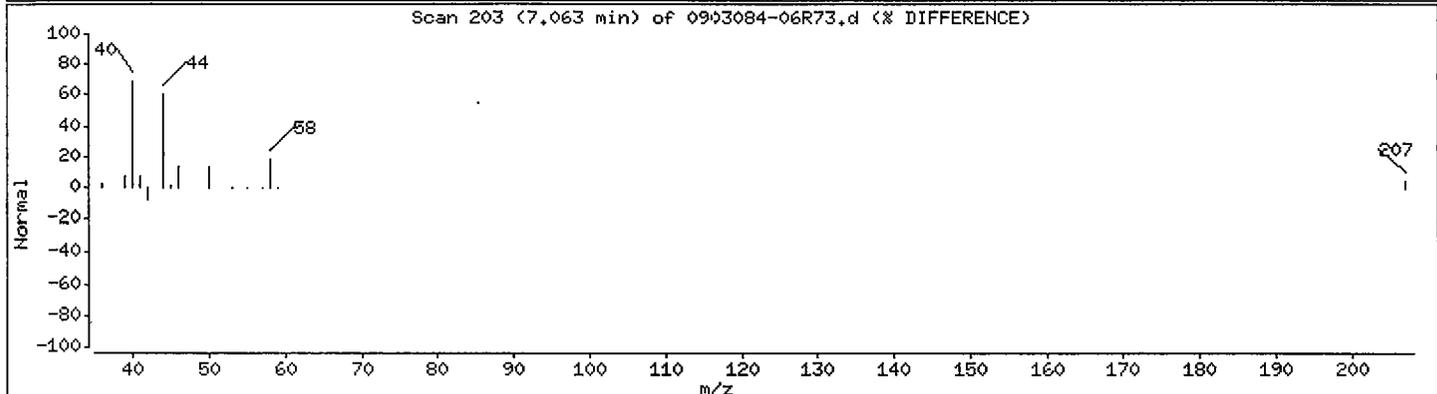
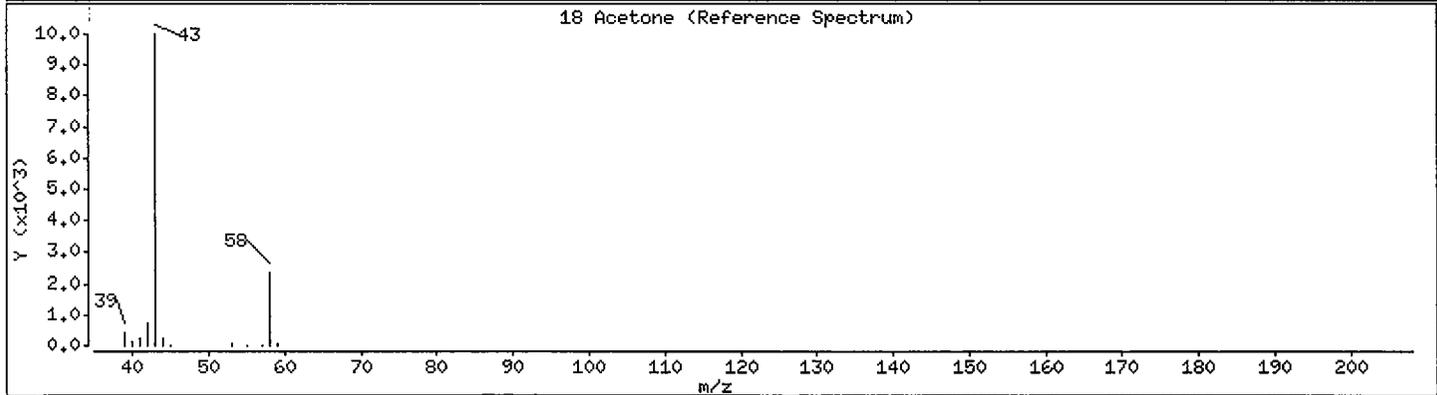
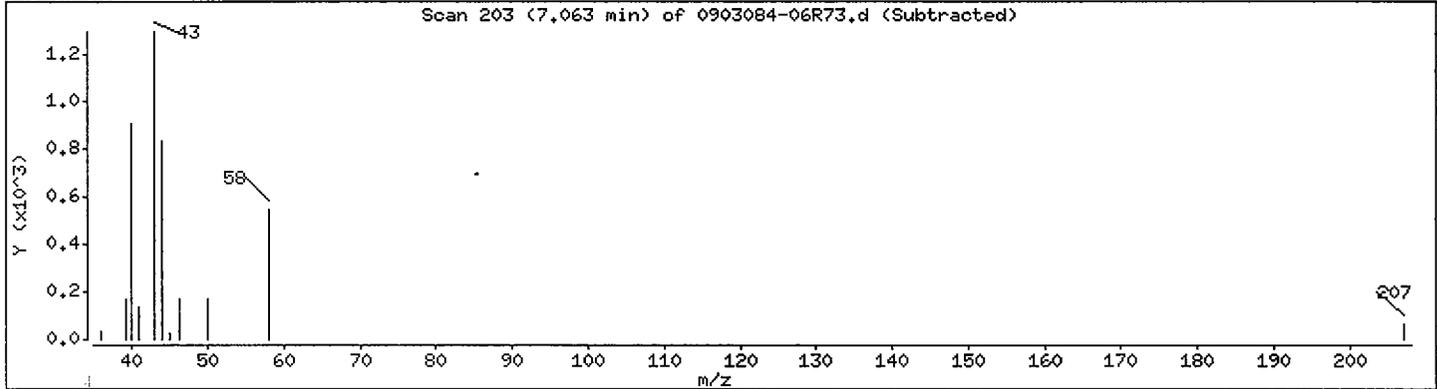
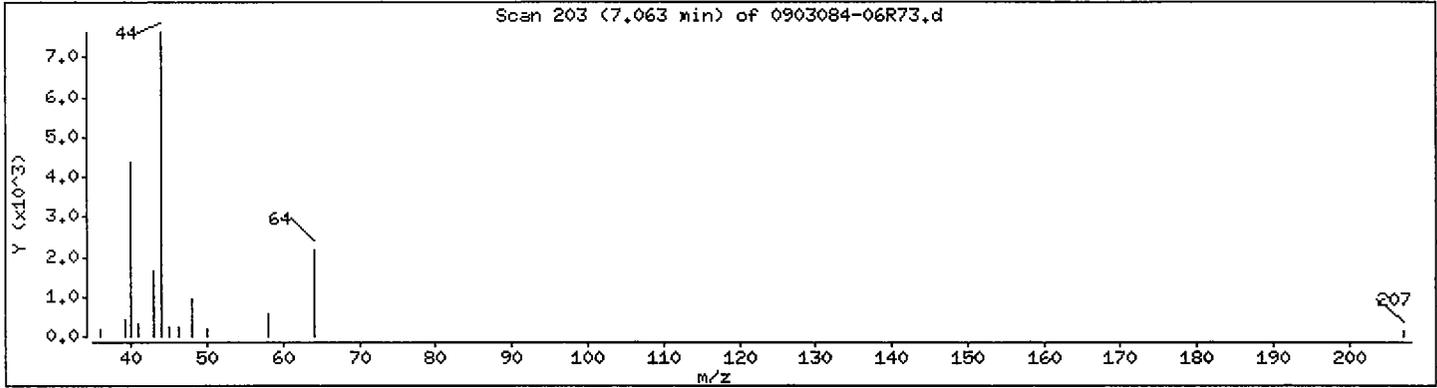
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 2.7 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date : 19-MAR-2009 23:58

Client ID: MW-17

Instrument: 5972hp73.i

Sample Info: 0903084-06;TD

Purge Volume: 25.0

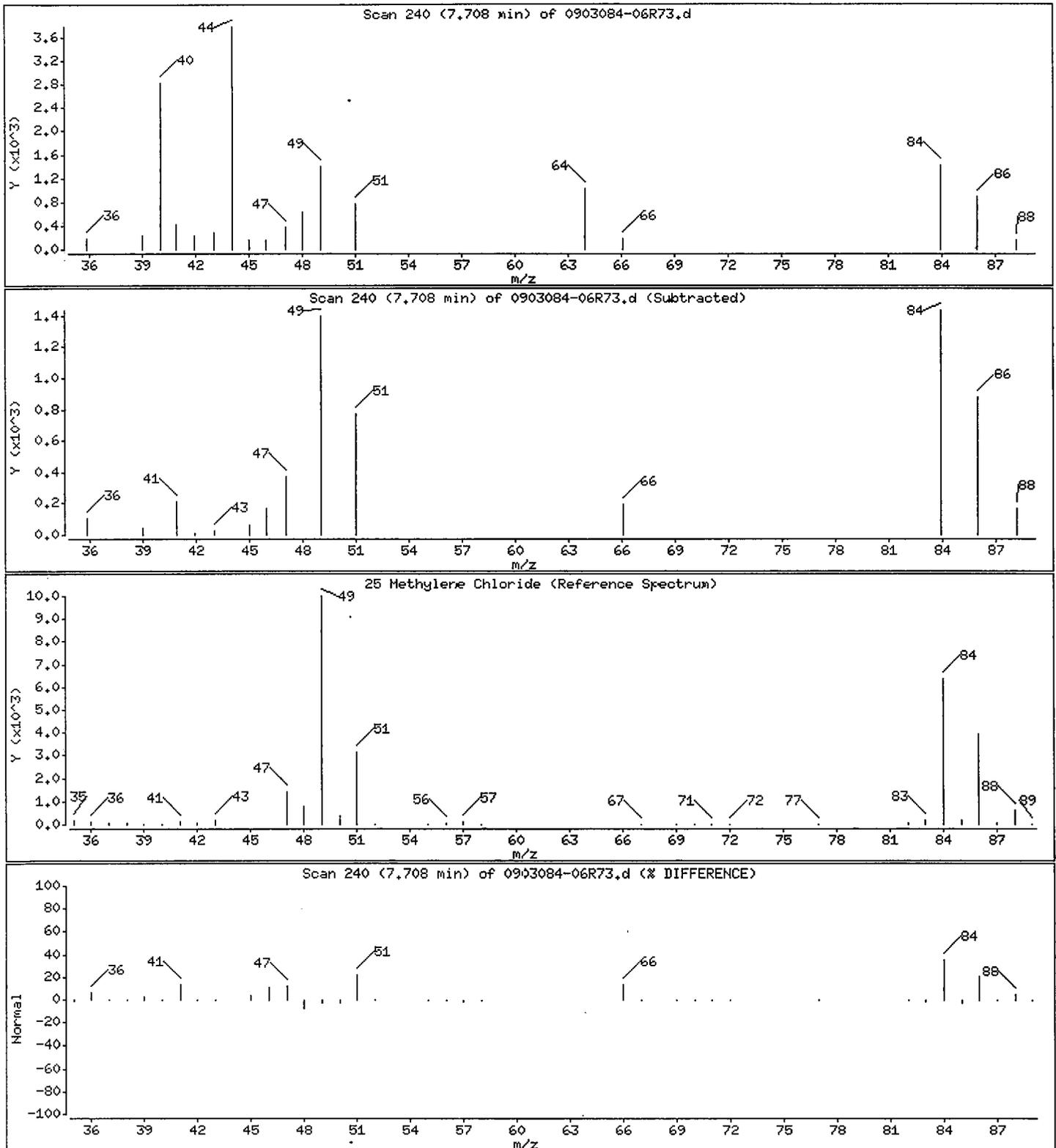
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.16 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date : 19-MAR-2009 23:58

Client ID: MW-17

Instrument: 5972hp73.i

Sample Info: 0903084-06;TD

Purge Volume: 25.0

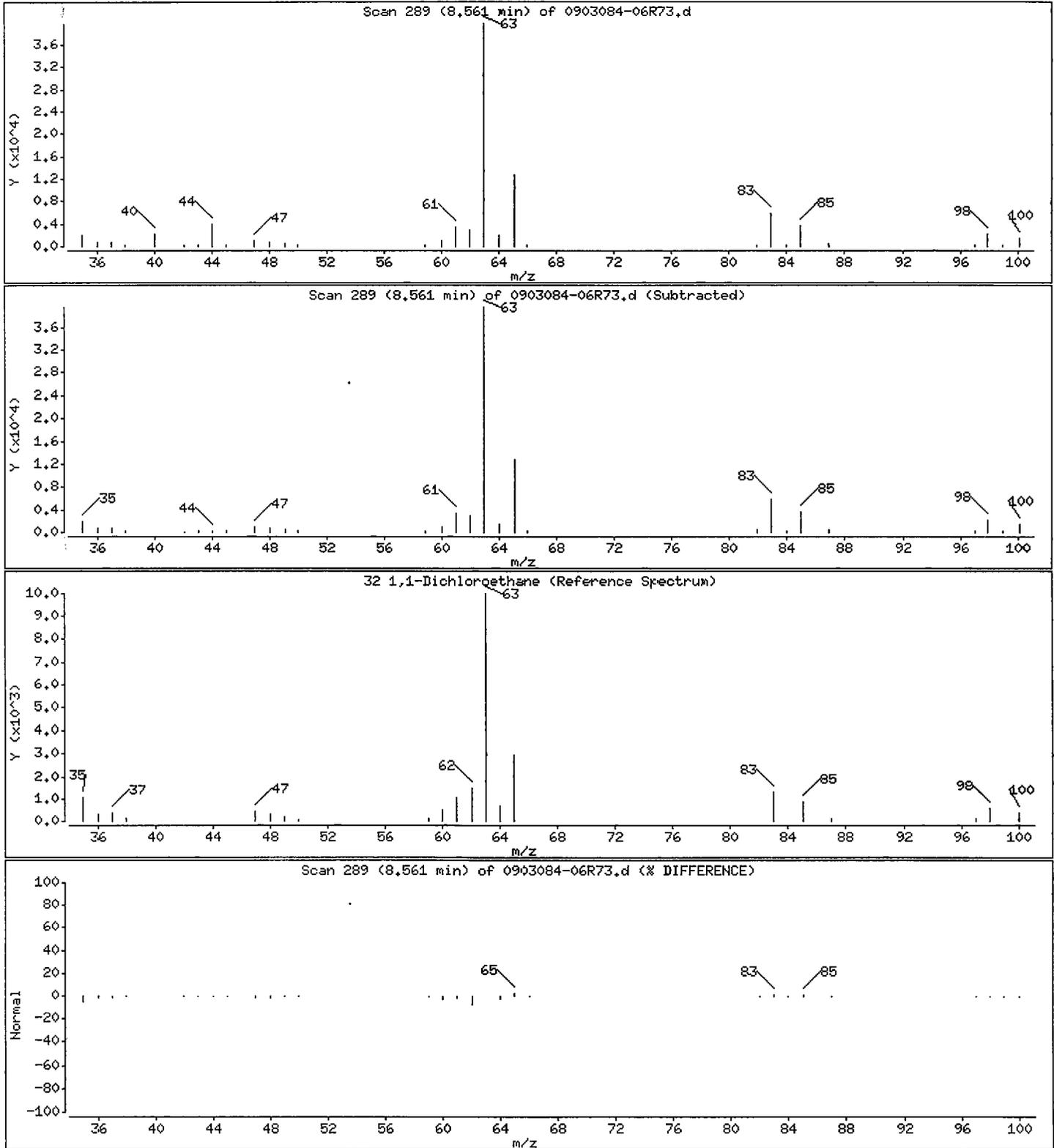
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

32 1,1-Dichloroethane

Concentration: 2.3 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date : 19-MAR-2009 23:58

Client ID: MW-17

Instrument: 5972hp73.i

Sample Info: 0903084-06;TD

Purge Volume: 25.0

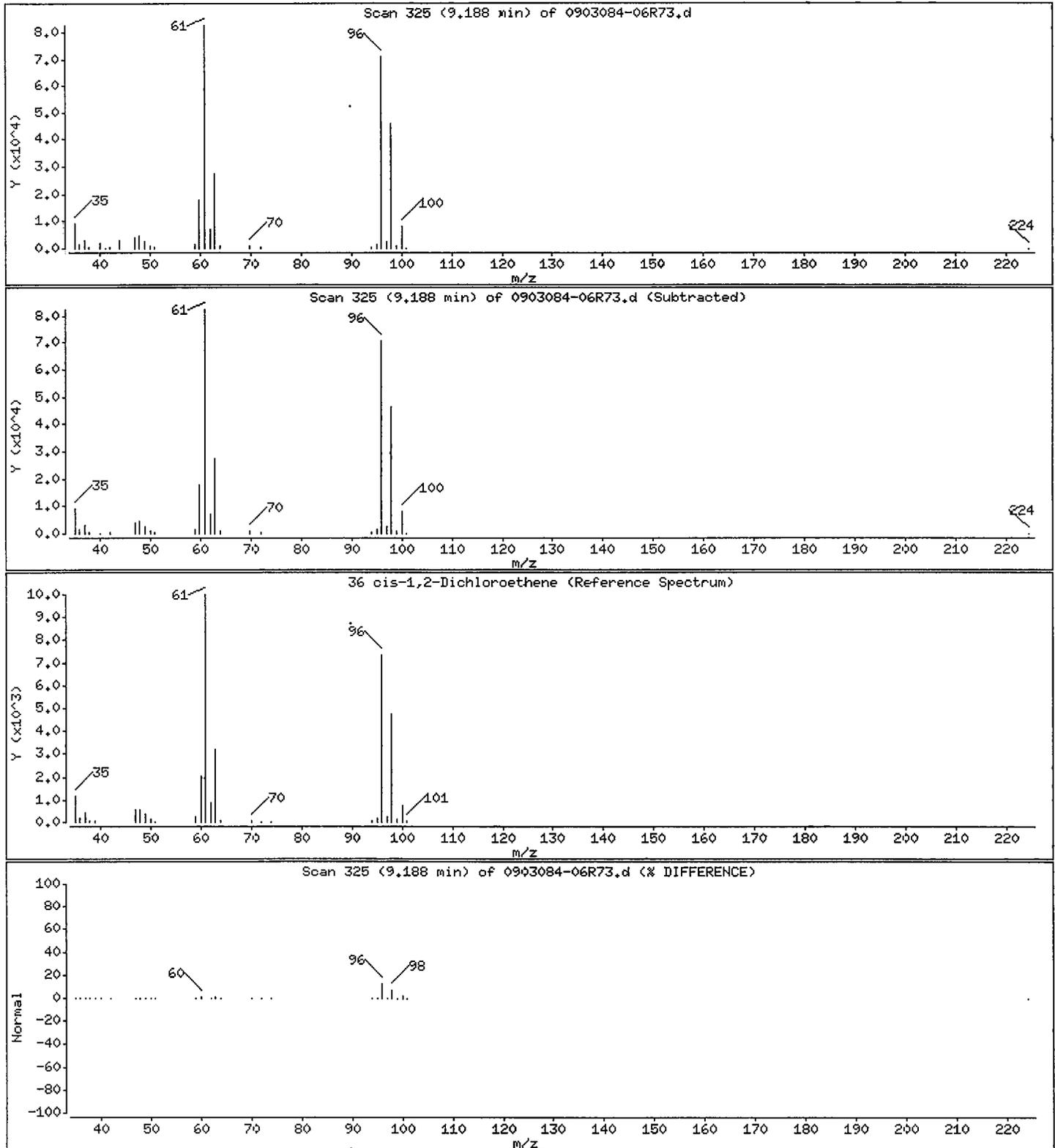
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

36 cis-1,2-Dichloroethene

Concentration: 6.1 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date : 19-MAR-2009 23:58

Client ID: MW-17

Instrument: 5972hp73.i

Sample Info: 0903084-06;TD

Purge Volume: 25.0

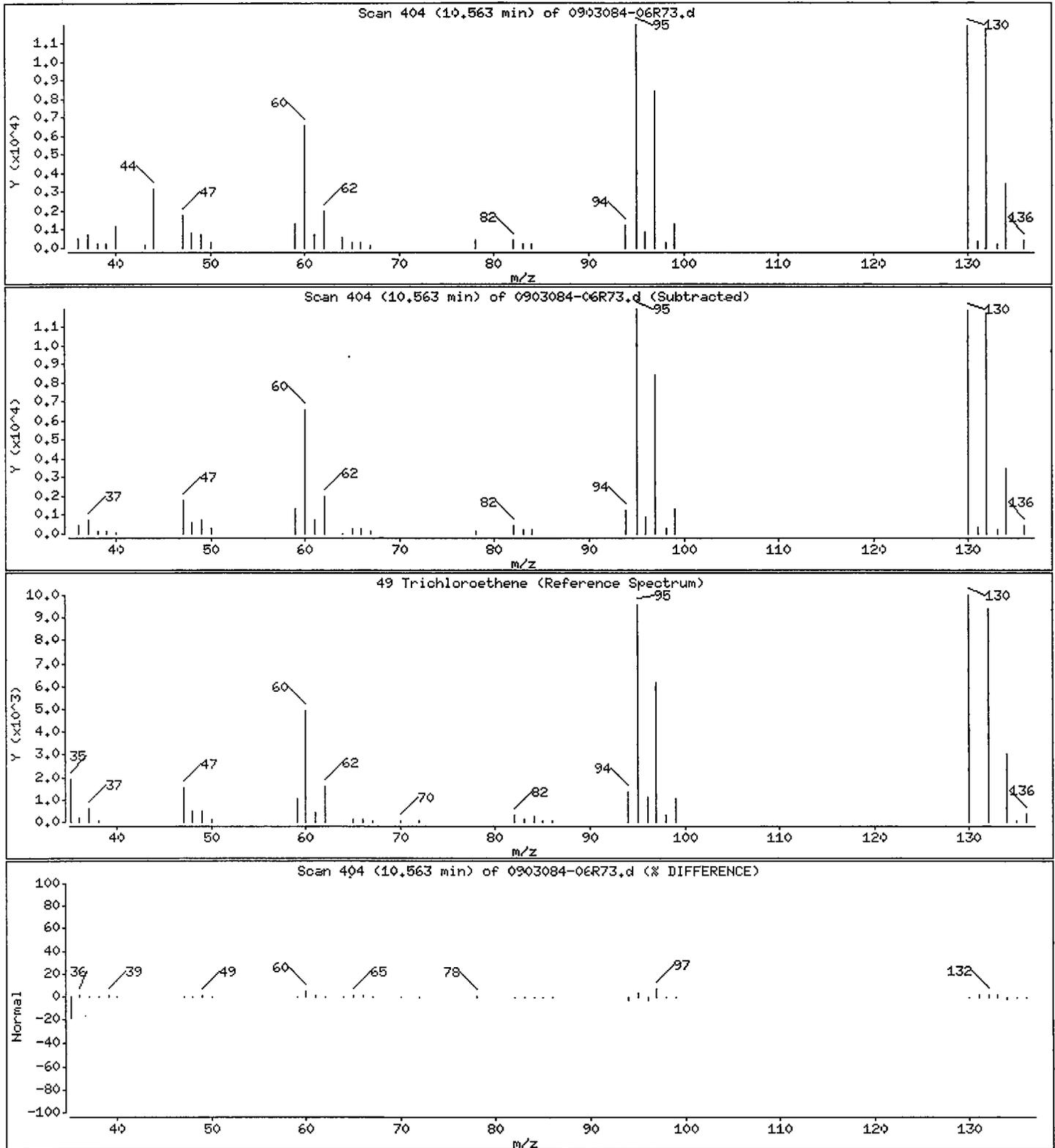
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

49 Trichloroethene

Concentration: 1.1 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date : 19-MAR-2009 23:58

Client ID: MW-17

Instrument: 5972hp73.i

Sample Info: 0903084-06;TD

Purge Volume: 25.0

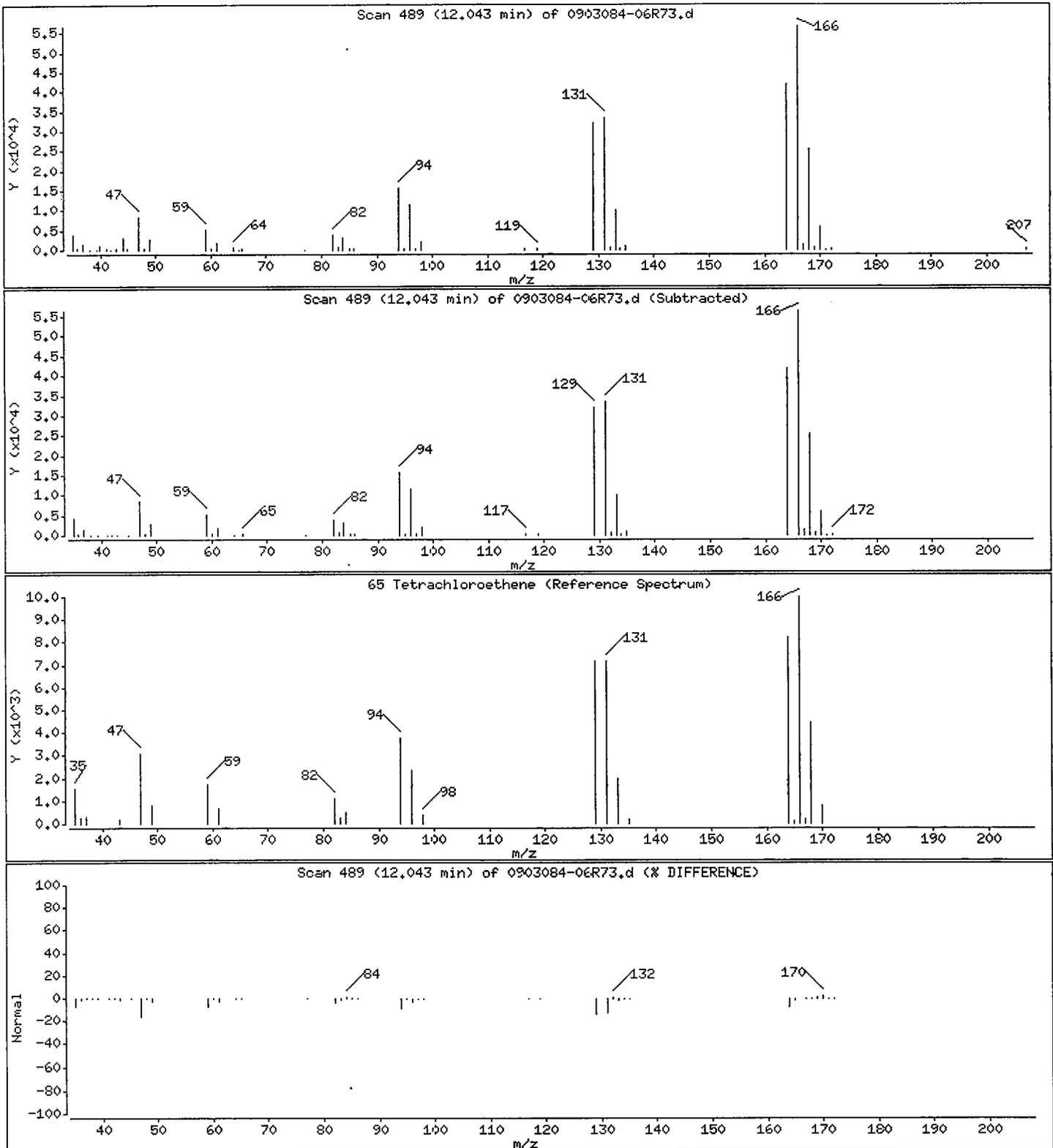
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 4.2 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-06R73.d

Date : 19-MAR-2009 23:58

Client ID: MW-17

Instrument: 5972hp73.i

Sample Info: 0903084-06;TD

Purge Volume: 25.0

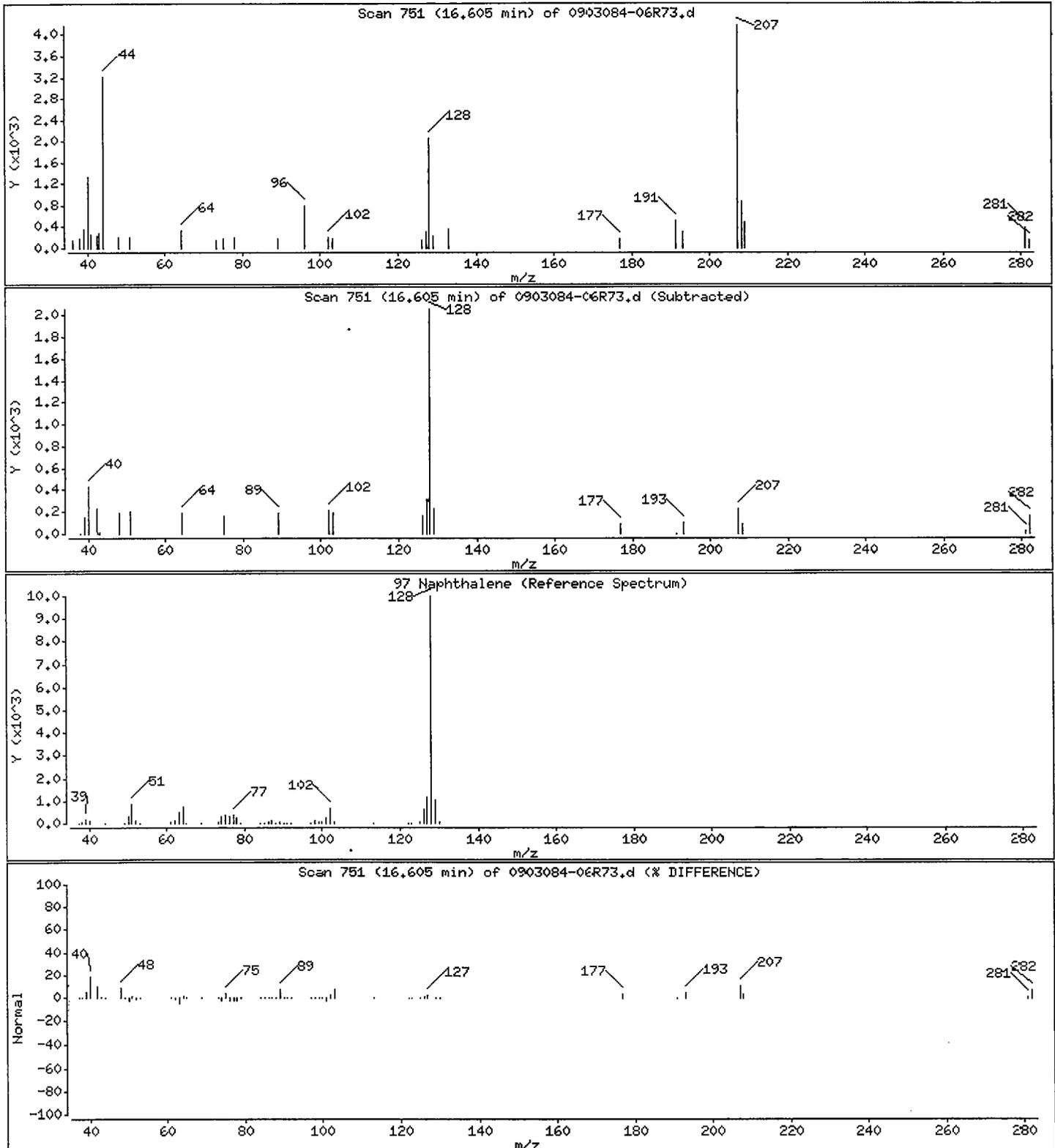
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

97 Naphthalene

Concentration: 0.20 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-02

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0273

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

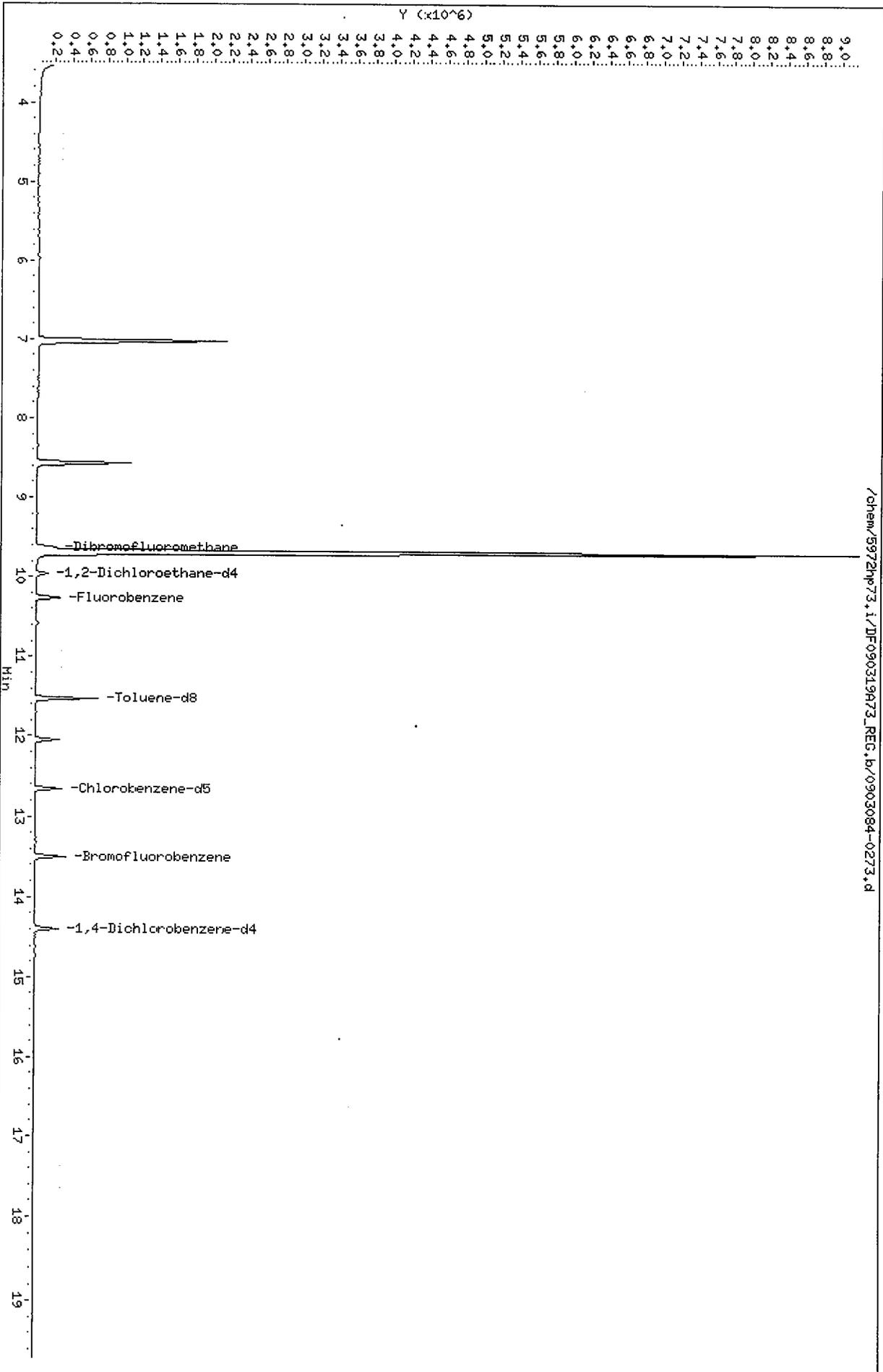
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.28 | J |
| 75-01-4 | Vinyl Chloride | 0.19 | J |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 48 | E |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 3.4 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.37 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 26 | E |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 190 | E |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.27 | J |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0273.d
Date: 19-MAR-2009 18:57
Client ID: MM-2
Sample Info: 0903084-02:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319A73_REG.b/0903084-0273.d
 Lab Smp Id: 0903084-02 Client Smp ID: MW-2
 Inj Date : 19-MAR-2009 18:57
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 0903084-02:JAO
 Misc Info : MW-2
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:15 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.265 | 10.251 | (1.000) | 294418 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.668 | 12.654 | (1.000) | 185656 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.409 | 14.412 | (1.000) | 76797 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.638 | 9.624 | (0.939) | 142748 | 151.310 | 6.1 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.969 | 9.972 | (0.971) | 86387 | 135.962 | 5.4 |
| \$ 6 Toluene-d8 | 98 | | | 11.536 | 11.539 | (0.911) | 442321 | 140.900 | 5.6 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.503 | 13.489 | (0.937) | 122768 | 118.685 | 4.7 |
| 8 Dichlorodifluoromethane | 85 | | | Compound Not Detected. | | | | | |
| 9 Chloromethane | 50 | | | 4.345 | 4.348 | (0.423) | 7022 | 7.05621 | 0.28 (a) |
| 10 Vinyl Chloride | 62 | | | 4.641 | 4.627 | (0.452) | 2283 | 4.81769 | 0.19 (a) |
| 11 Bromomethane | 94 | | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | | Compound Not Detected. | | | | | |
| 13 Trichlorofluoromethane | 101 | | | Compound Not Detected. | | | | | |
| 14 Acrolein | 56 | | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | | 7.026 | 7.029 | (0.684) | 1083665 | 1193.59 | 48 (A) |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-------------------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.078 | 7.064 | (0.690) | 8605 | 85.6199 | 3.4 |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | |
| 25 Methylene Chloride | 84 | 7.705 | 7.708 | (0.751) | 8195 | 9.22646 | 0.37 (a) |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.576 | 8.579 | (0.835) | 1091337 | 650.645 | 26 (A) |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | |
| 40 Chloroform | 83 | Compound Not Detected. | | | | | |
| 42 1,1,1-Trichloroethane | 97 | 9.690 | 9.693 | (0.944) | 6638563 | 4782.70 | 190 (A) |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | |
| 47 Benzene | 78 | Compound Not Detected. | | | | | |
| 48 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | |
| 49 Trichloroethene | 130 | 10.578 | 10.581 | (1.031) | 6877 | 6.64238 | 0.27 (a) |
| 51 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | |
| 65 Tetrachloroethene | 164 | 12.041 | 12.044 | (0.951) | 64890 | 84.1797 | 3.4 |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | |
| 69 Chlorobenzene | 112 | Compound Not Detected. | | | | | |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|----|--------|--------|------------------------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | |
| 79 1,2,3-Trichloropropane | 110 | | | | Compound Not Detected. | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | Compound Not Detected. | | |
| 90 1,3-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 91 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 93 1,2-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| 96 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 97 Naphthalene | 128 | | | | Compound Not Detected. | | |
| M 100 Xylene (total) | 106 | | | | Compound Not Detected. | | |

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date: 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02;JAO

Purge Volume: 25.0

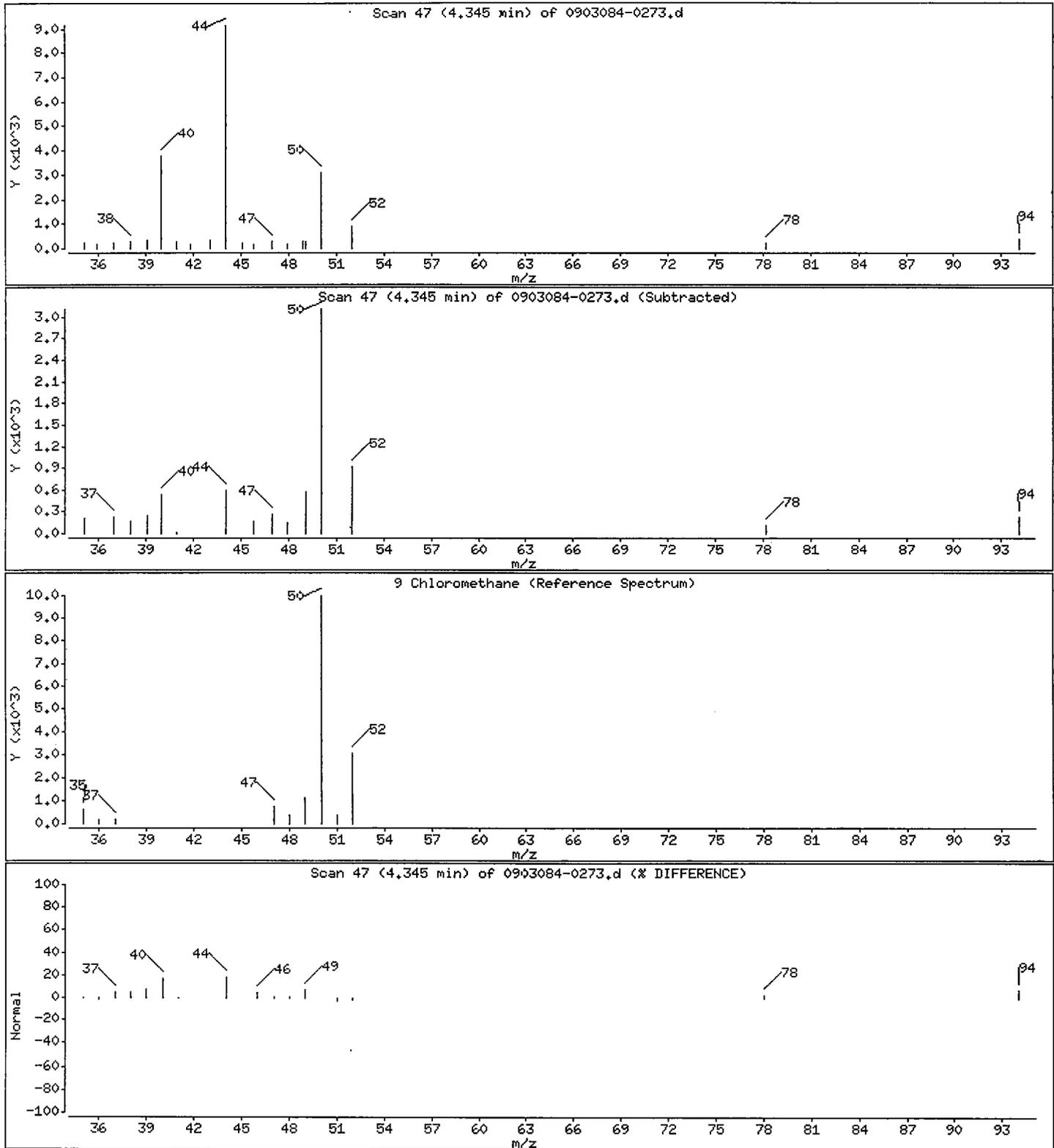
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

9 Chloromethane

Concentration: 0.28 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02;JAO

Purge Volume: 25.0

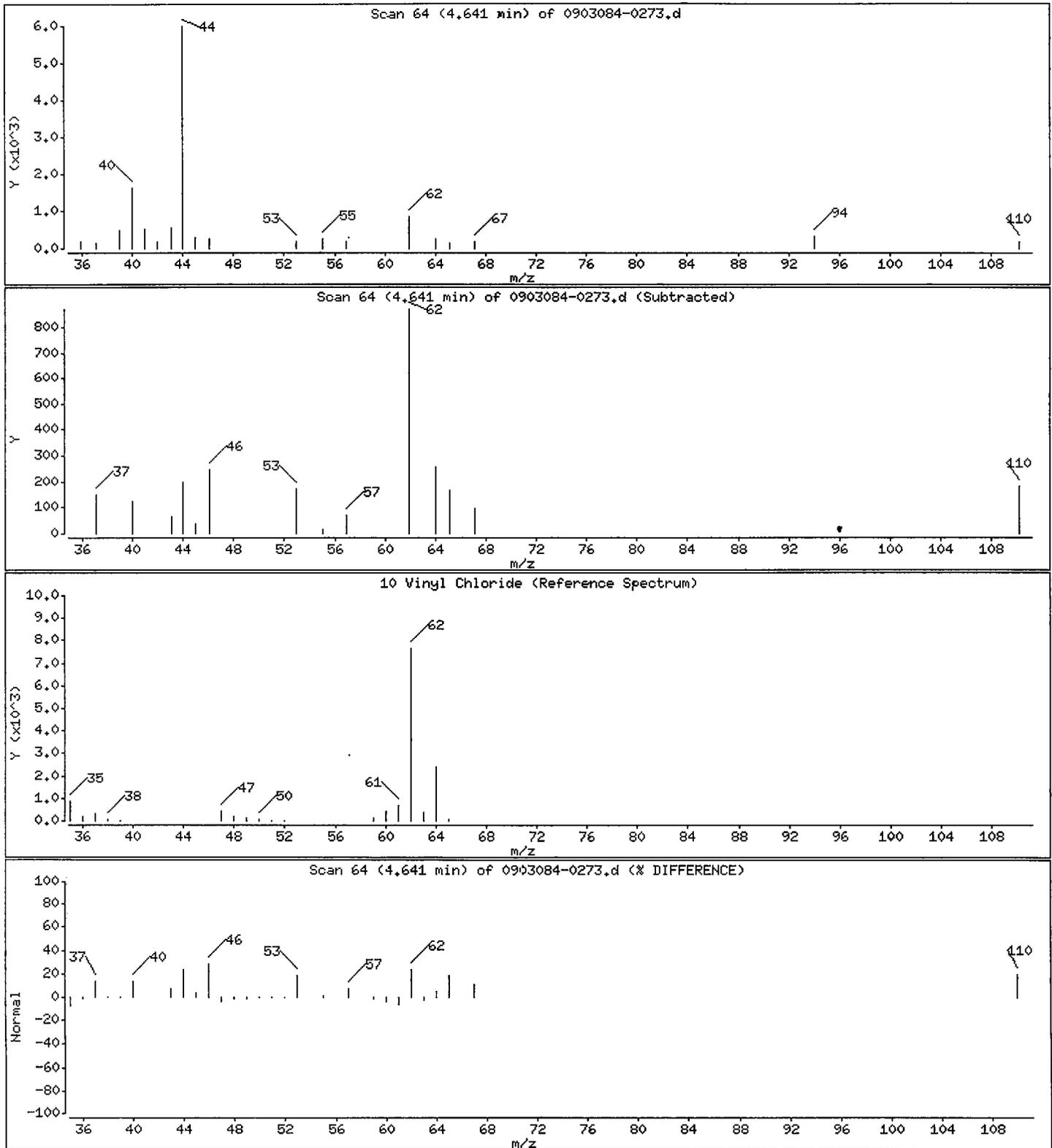
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

10 Vinyl Chloride

Concentration: 0.19 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02;JAO

Purge Volume: 25.0

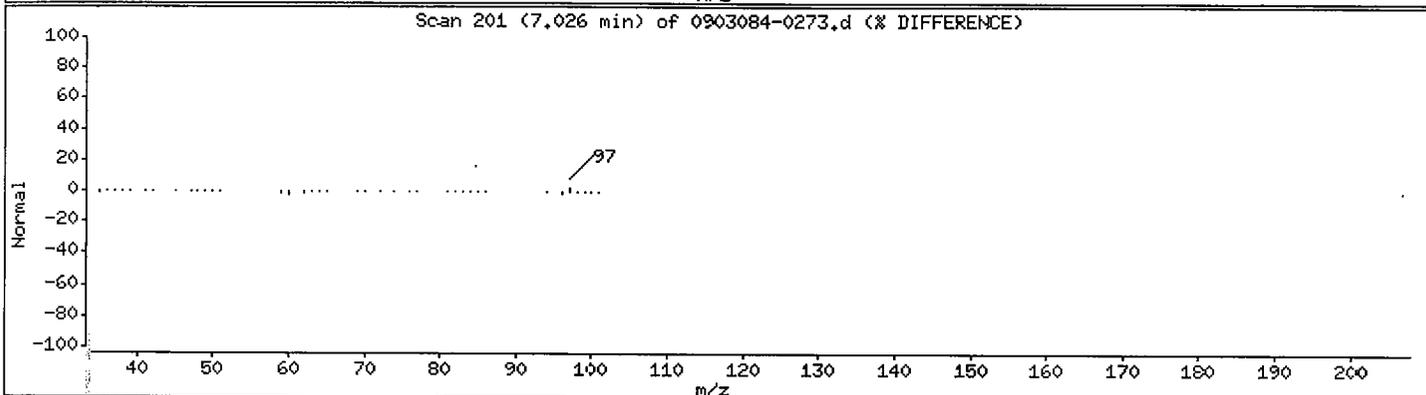
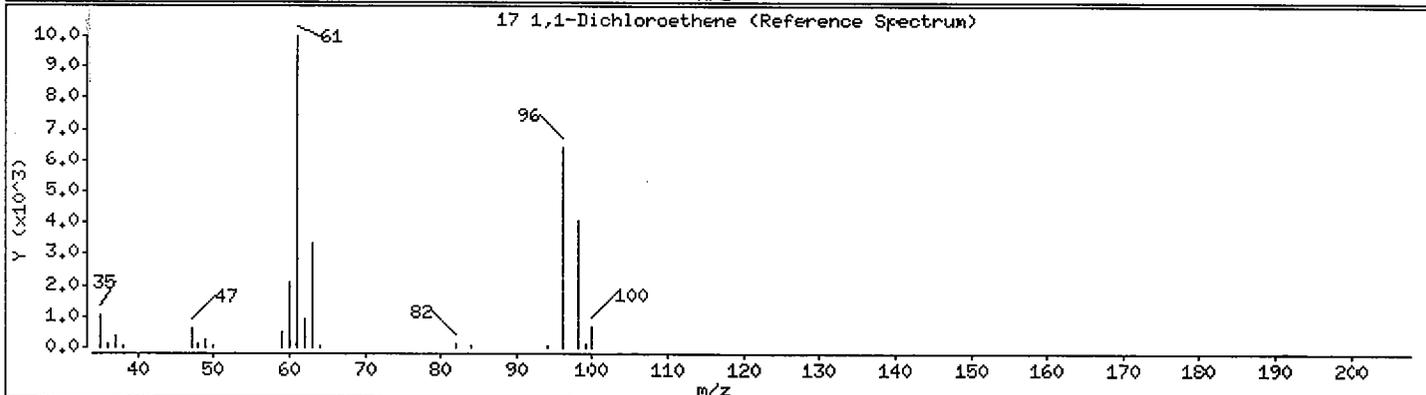
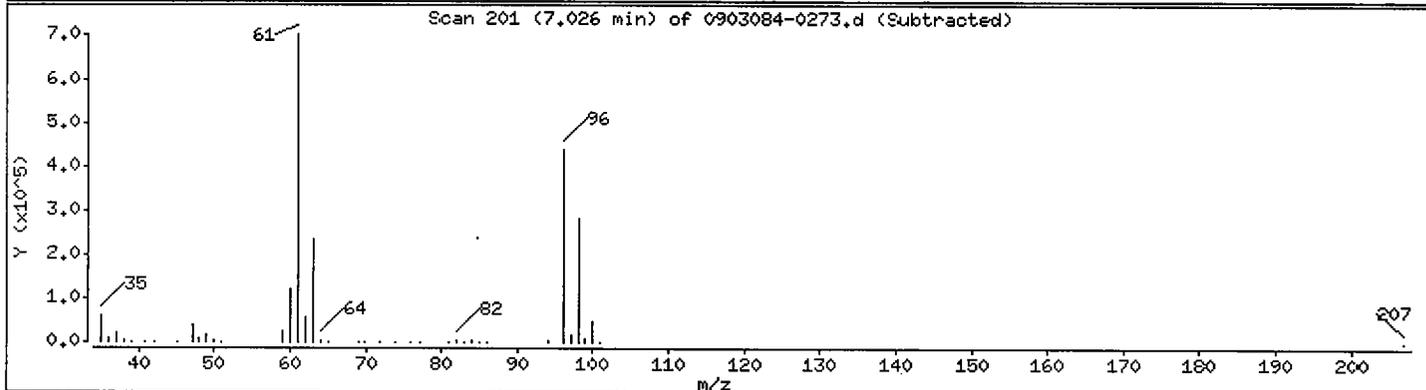
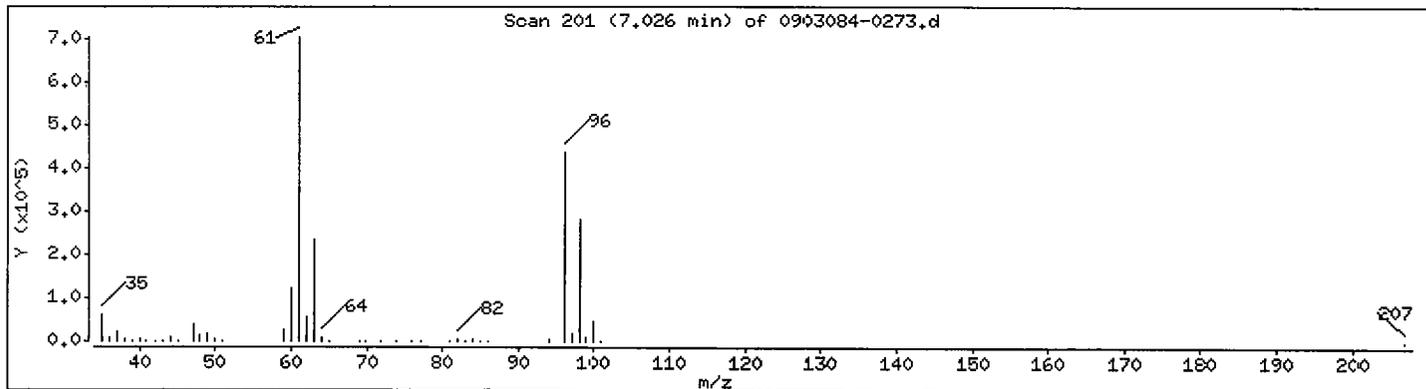
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

17 1,1-Dichloroethene

Concentration: 48 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02:JAO

Purge Volume: 25.0

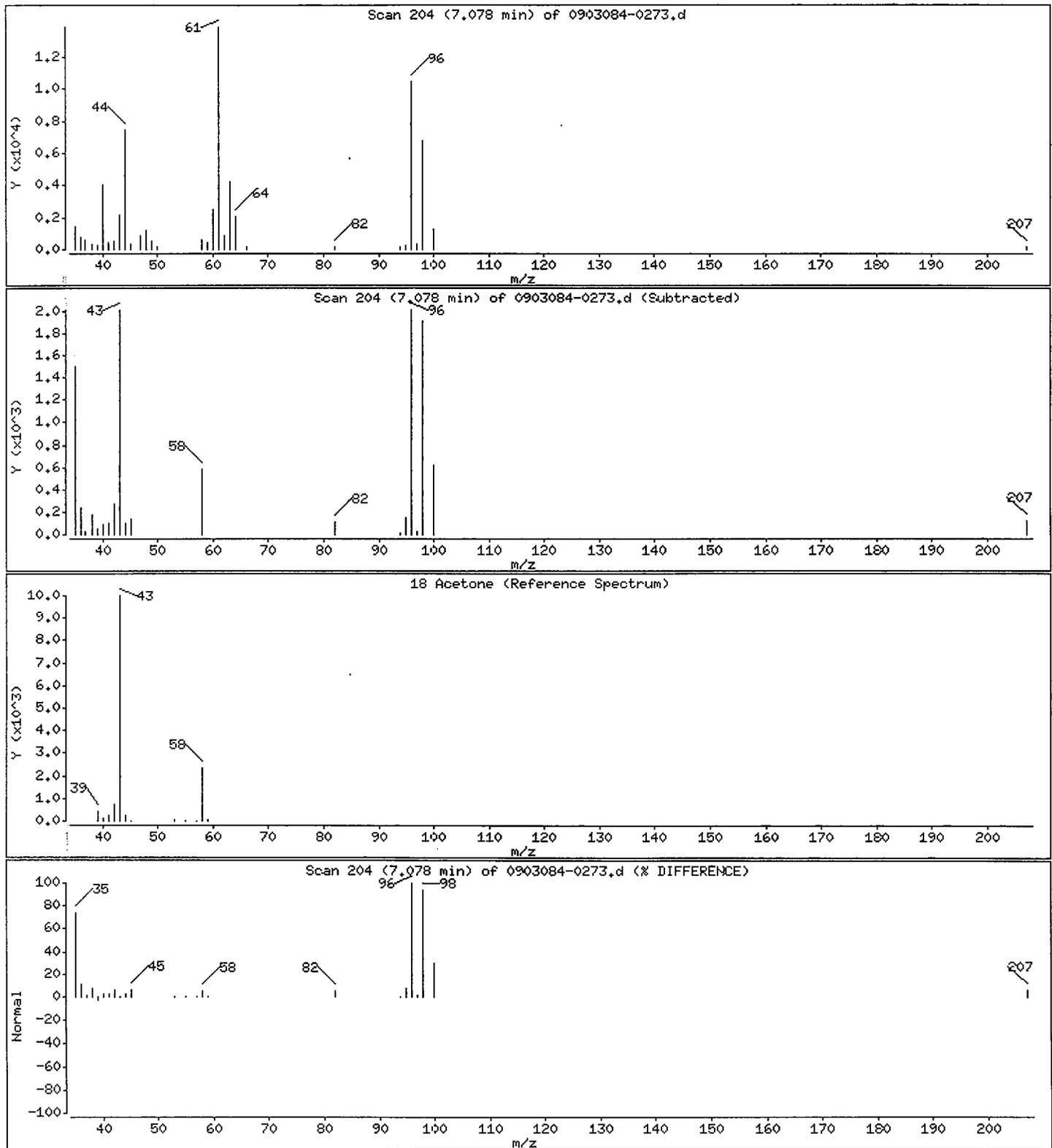
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 3.4 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02:JAO

Purge Volume: 25.0

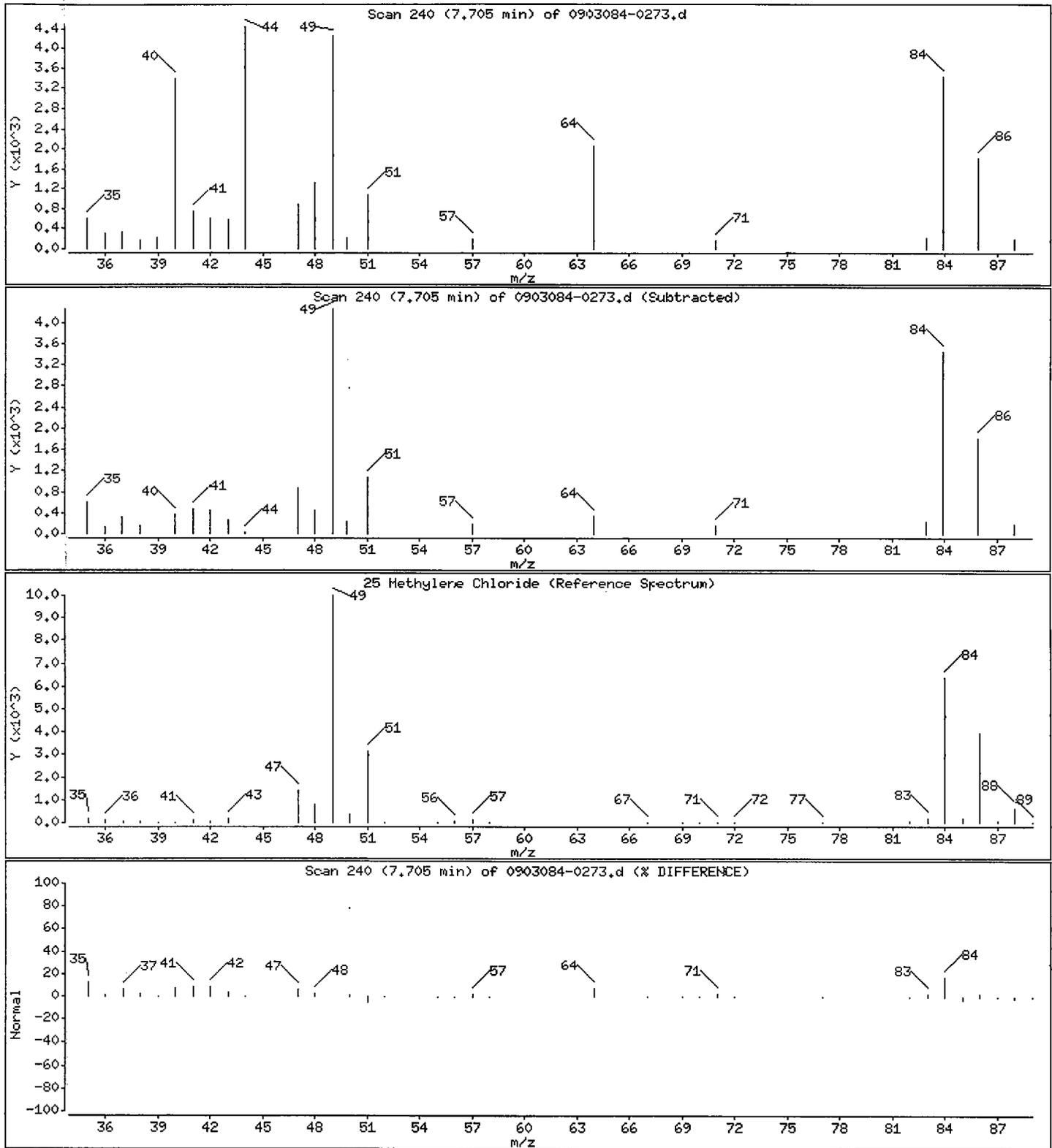
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.37 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02:JAO

Purge Volume: 25.0

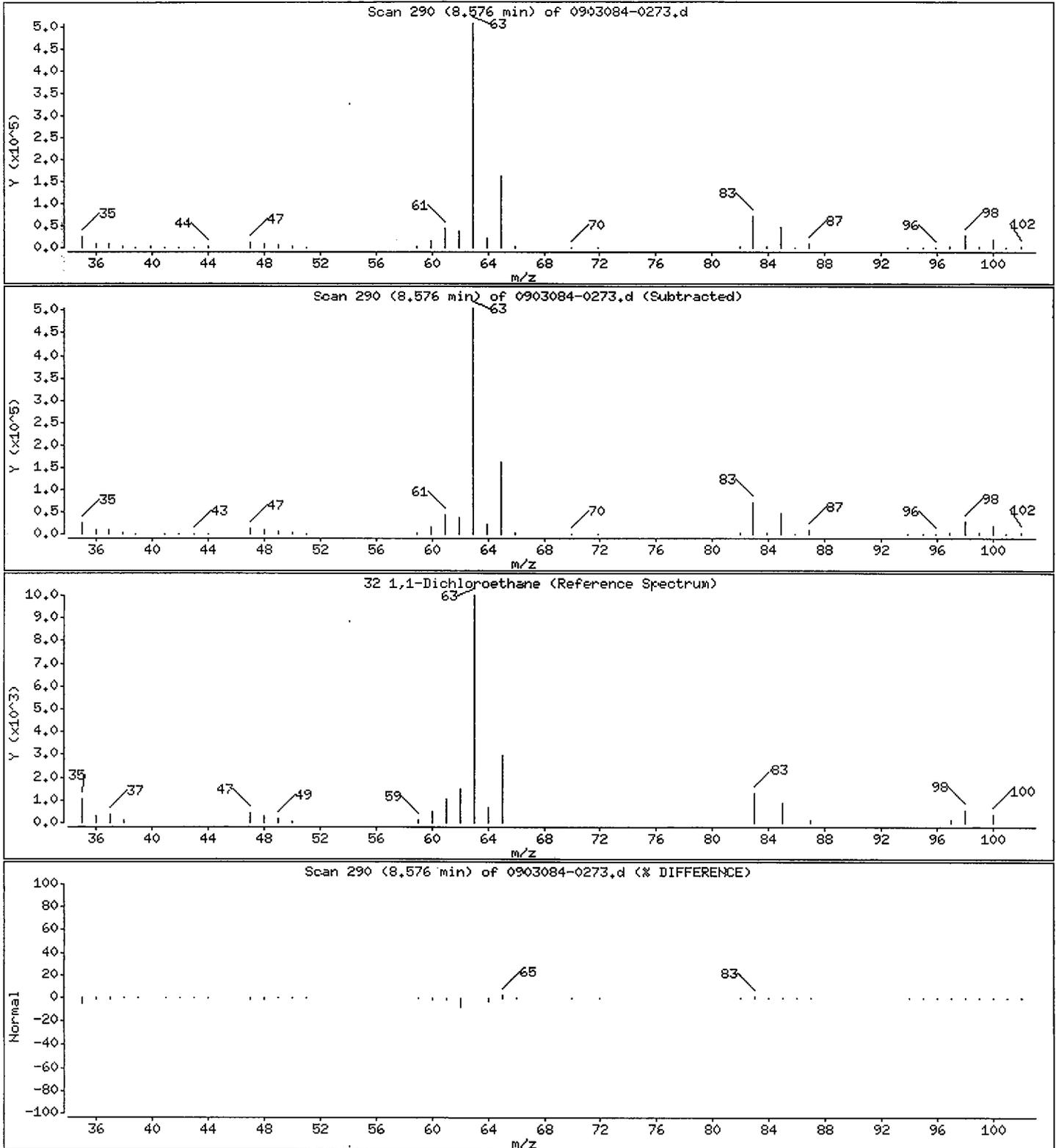
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

32 1,1-Dichloroethane

Concentration: 26 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02:JAO

Purge Volume: 25.0

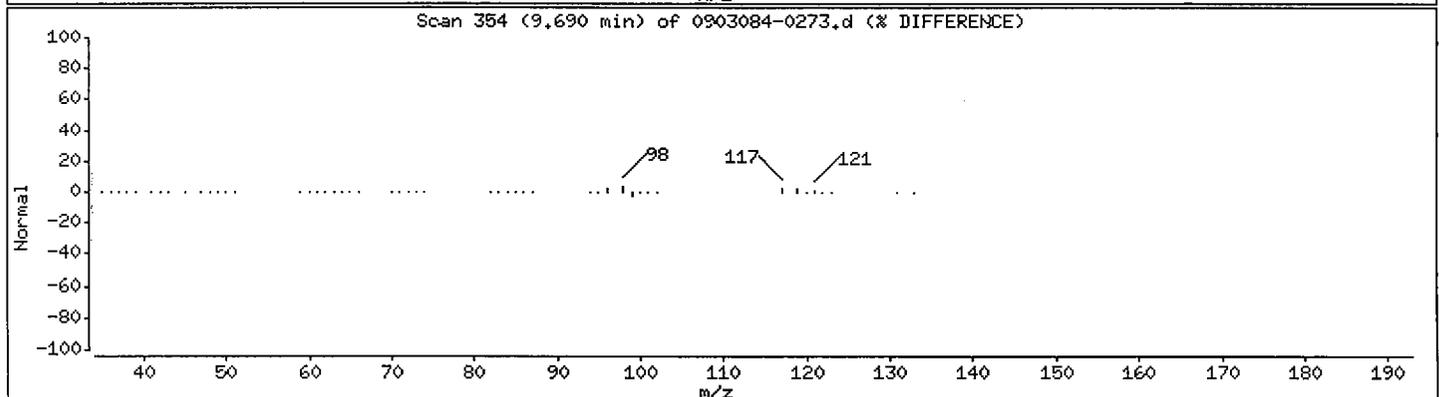
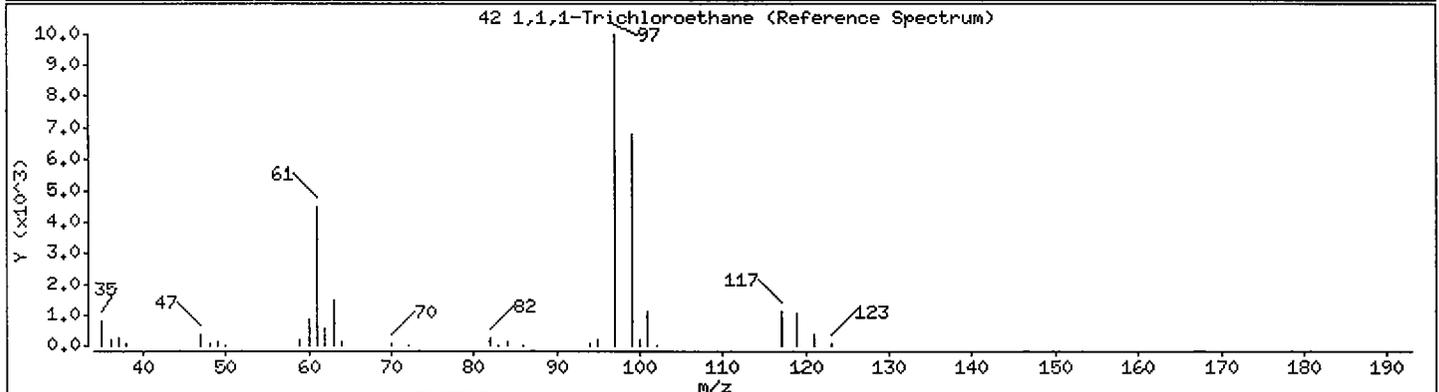
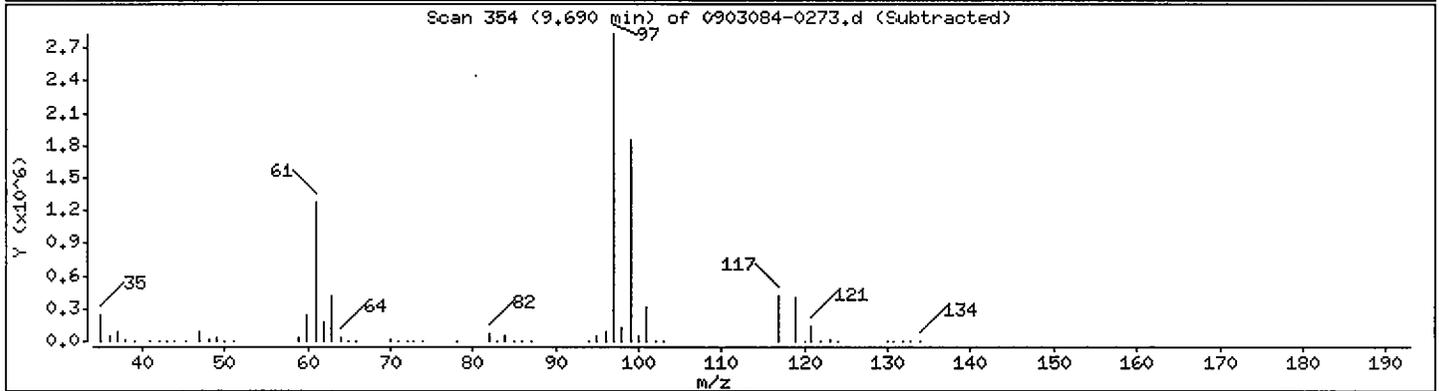
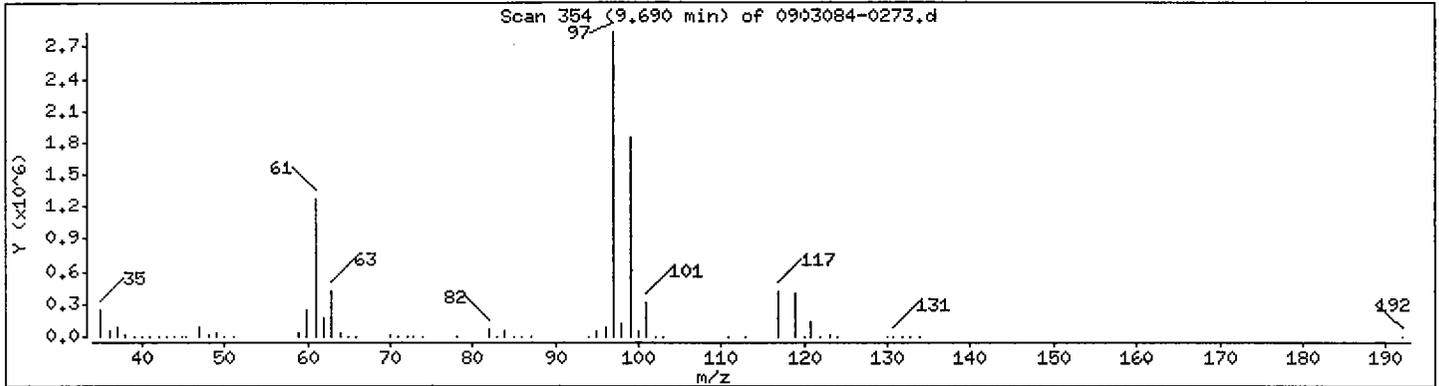
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

42 1,1,1-Trichloroethane

Concentration: 190 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02:JAO

Purge Volume: 25.0

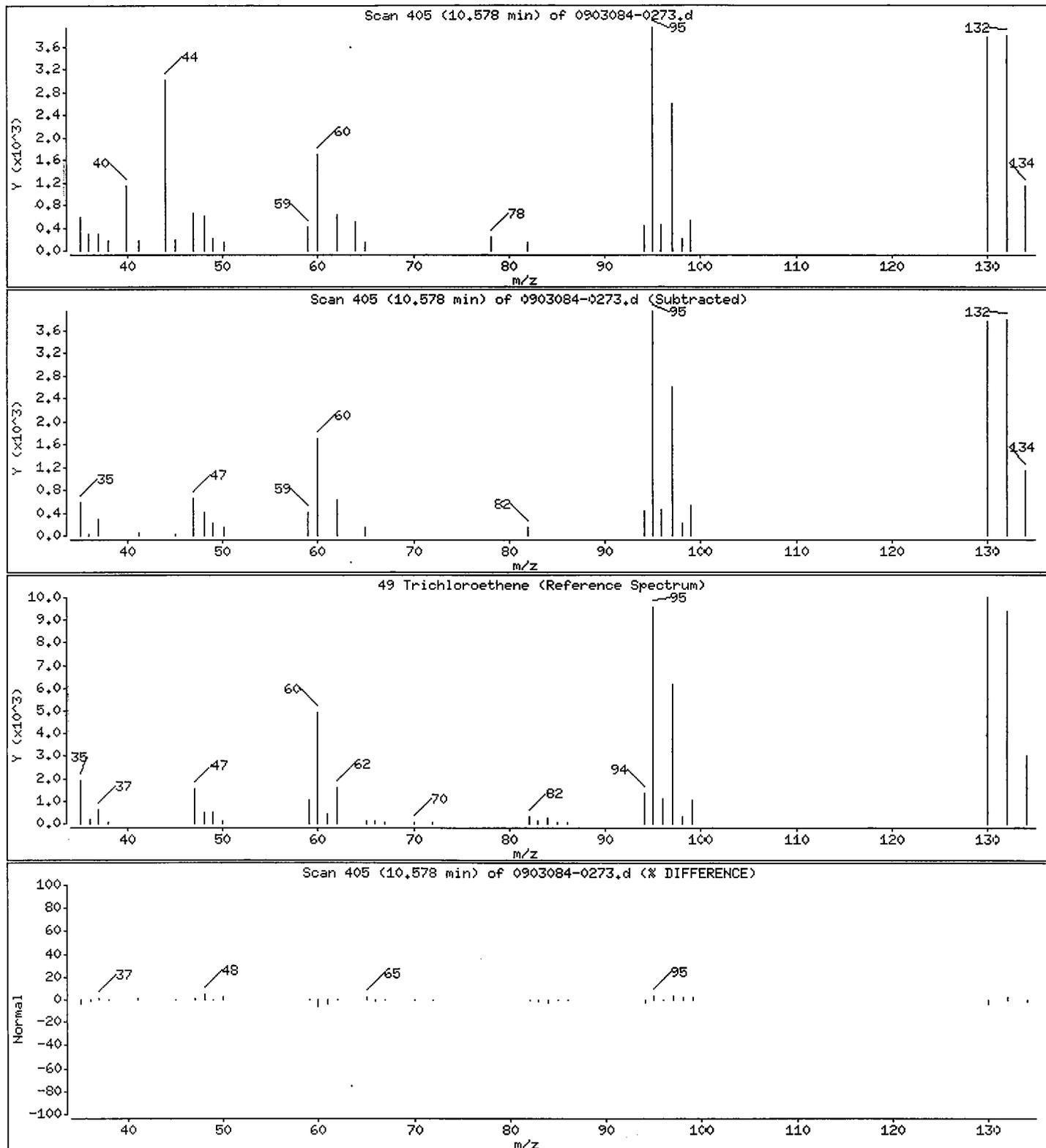
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

49 Trichloroethene

Concentration: 0.27 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0273.d

Date : 19-MAR-2009 18:57

Client ID: MW-2

Instrument: 5972hp73.i

Sample Info: 0903084-02:JAO

Purge Volume: 25.0

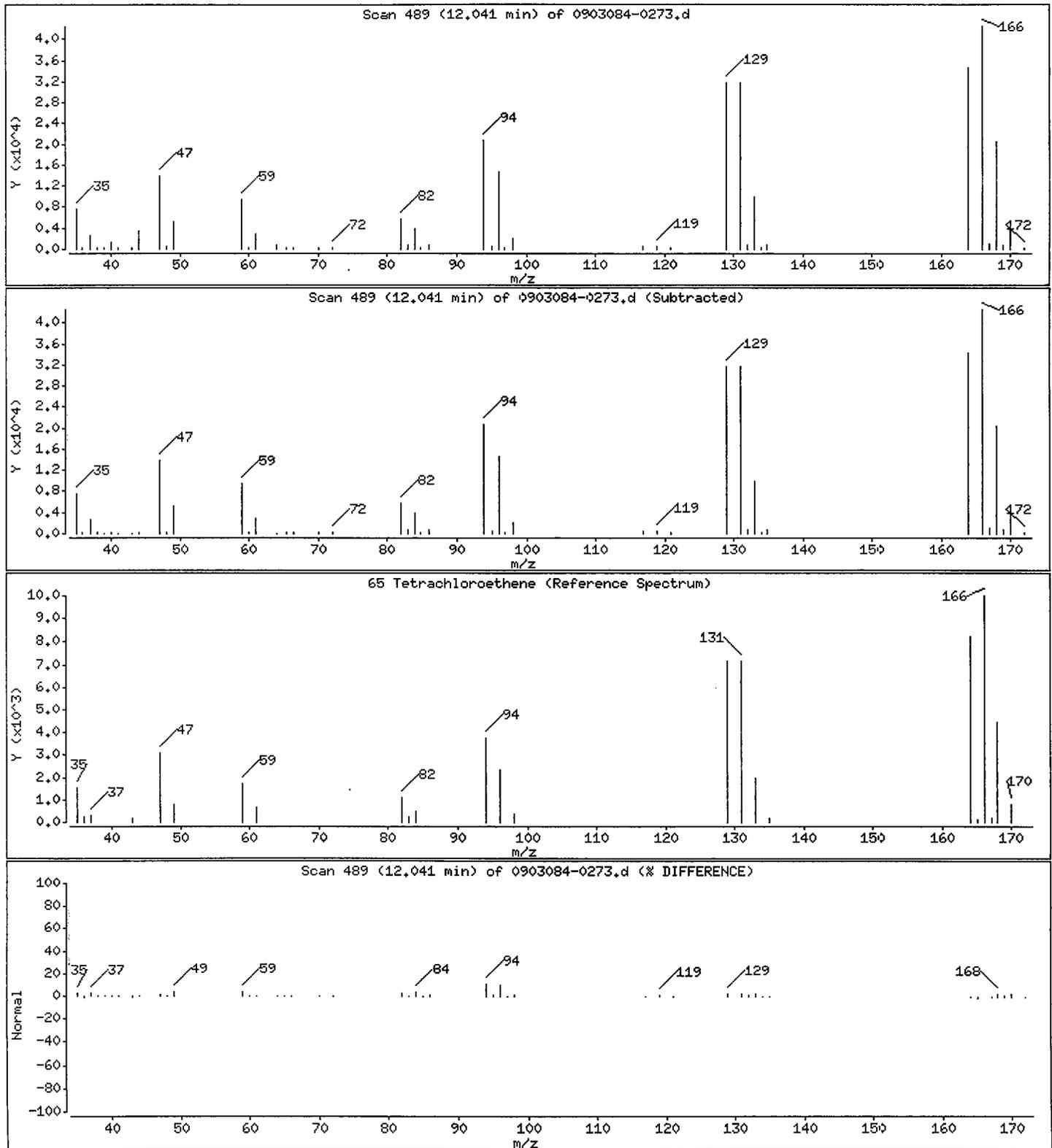
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 3.4 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2DL

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-02RE1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-02D73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 12.5

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | | |
|---------------|--------------------------|-----|-----|
| 75-71-8----- | Dichlorodifluoromethane | 6.3 | U |
| 74-87-3----- | Chloromethane | 6.3 | U |
| 75-01-4----- | Vinyl Chloride | 6.3 | U |
| 74-83-9----- | Bromomethane | 6.3 | U |
| 75-00-3----- | Chloroethane | 6.3 | U |
| 75-69-4----- | Trichlorofluoromethane | 6.3 | U |
| 107-02-8----- | Acrolein | 63 | U |
| 75-35-4----- | 1,1-Dichloroethene | 46 | D |
| 74-88-4----- | Iodomethane | 6.3 | U |
| 75-15-0----- | Carbon disulfide | 6.3 | U |
| 67-64-1----- | Acetone | 57 | DB |
| 107-05-1----- | 3-Chloropropene | 6.3 | U |
| 75-05-8----- | Acetonitrile | 6.3 | U |
| 75-09-2----- | Methylene Chloride | 1.6 | DJB |
| 156-60-5----- | trans-1,2-Dichloroethene | 6.3 | U |
| 107-13-1----- | Acrylonitrile | 63 | U |
| 75-34-3----- | 1,1-Dichloroethane | 25 | D |
| 108-05-4----- | Vinyl acetate | 13 | U |
| 594-20-7----- | 2,2-Dichloropropane | 6.3 | U |
| 156-59-2----- | cis-1,2-Dichloroethene | 6.3 | U |
| 78-93-3----- | 2-butanone | 31 | U |
| 107-12-0----- | Propionitrile | 310 | U |
| 74-97-5----- | Bromochloromethane | 6.3 | U |
| 126-98-7----- | Methacrylonitrile | 63 | U |
| 67-66-3----- | Chloroform | 6.3 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 200 | D |
| 56-23-5----- | Carbon Tetrachloride | 6.3 | U |
| 563-58-6----- | 1,1-dichloropropene | 6.3 | U |
| 71-43-2----- | Benzene | 6.3 | U |
| 107-06-2----- | 1,2-Dichloroethane | 6.3 | U |
| 78-83-1----- | Isobutyl alcohol | 310 | U |
| 79-01-6----- | Trichloroethene | 6.3 | U |
| 78-87-5----- | 1,2-Dichloropropane | 6.3 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-2DL

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-02RE1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-02D73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 12.5

Soil Extract Volume: _____ (uL)

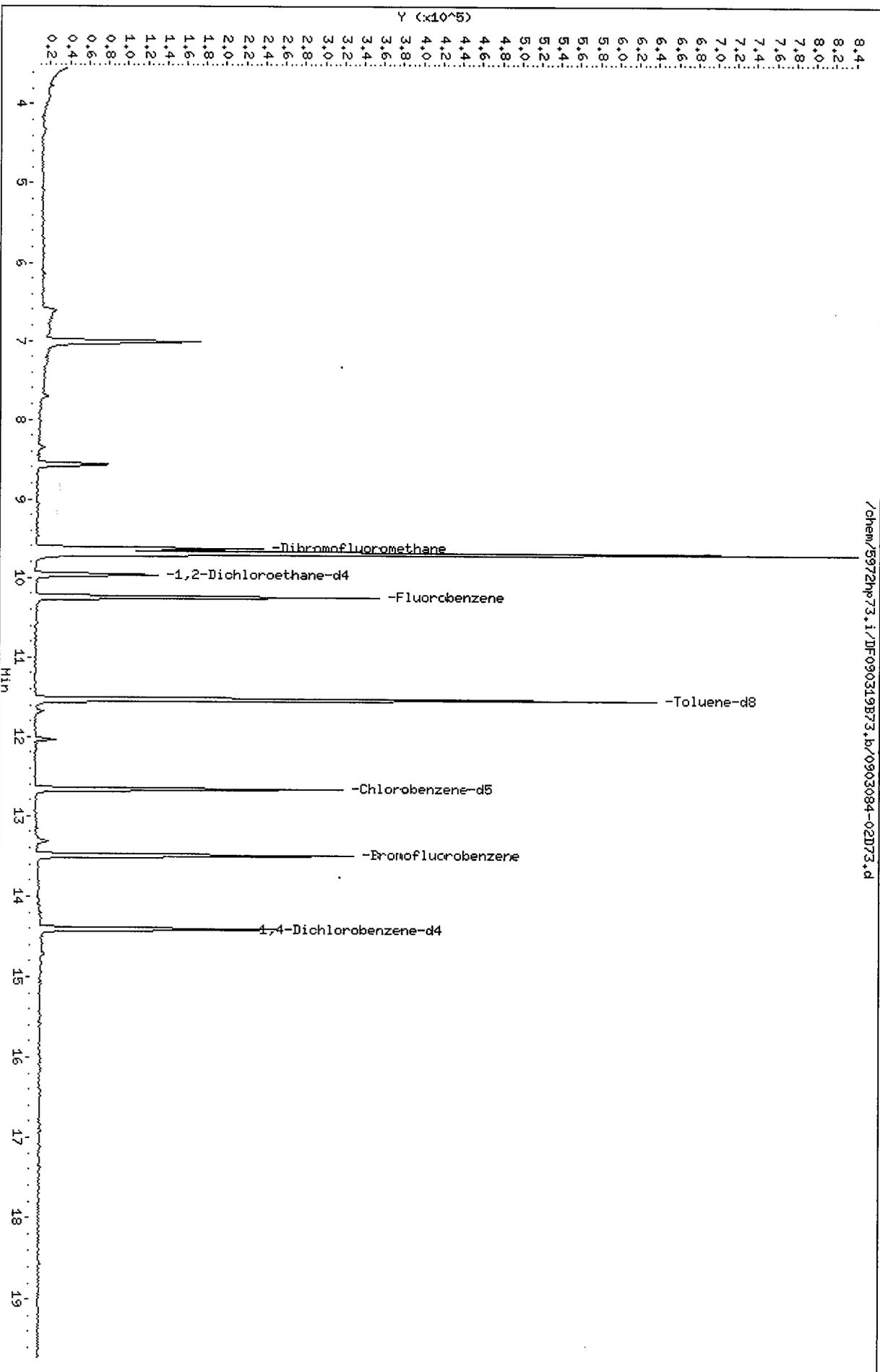
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|----|
| 74-95-3 | Dibromomethane | 6.3 | U |
| 80-62-6 | Methylmethacrylate | 63 | U |
| 75-27-4 | Bromodichloromethane | 6.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 31 | U |
| 108-88-3 | Toluene | 6.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6.3 | U |
| 97-63-2 | Ethylmethacrylate | 63 | U |
| 127-18-4 | Tetrachloroethene | 3.2 | DJ |
| 142-28-9 | 1,3-Dichloropropane | 6.3 | U |
| 591-78-6 | 2-hexanone | 31 | U |
| 124-48-1 | Dibromochloromethane | 6.3 | U |
| 108-90-7 | Chlorobenzene | 6.3 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 6.3 | U |
| 100-41-4 | Ethylbenzene | 6.3 | U |
| 108-38-3 | m,p-Xylene | 13 | U |
| 95-47-6 | o-Xylene | 6.3 | U |
| 100-42-5 | Styrene | 6.3 | U |
| 75-25-2 | Bromoform | 6.3 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 6.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.3 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 25 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 6.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 6.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 6.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.3 | U |
| 87-68-3 | Hexachlorobutadiene | 6.3 | U |
| 91-20-3 | Naphthalene | 6.3 | U |
| 1330-20-7 | Xylene (total) | 6.3 | U |
| 126-99-8 | Chloroprene | 6.3 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d
 Date: 20-MAR-2009 00:56
 Client ID: HW-2DL
 Sample Info: 0903084-02REL1:TD
 Purge Volume: 25.0
 Column phase: SPB-624

Instrument: 5972hp73.i
 Operator: TD
 Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d
 Lab Smp Id: 0903084-02RE1 Client Smp ID: MW-2DL
 Inj Date : 20-MAR-2009 00:56
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 0903084-02RE1:TD
 Misc Info : MW-2DL
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 8
 Dil Factor: 12.50000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 12.50000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 12.50000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|----------------------------|-------|-----|------|------------------------|--------|---------|----------|--------------------|------------------|--|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) | |
| * 1 Fluorobenzene | 96 | | | 10.248 | 10.253 | (1.000) | 305104 | 125.000 | | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.651 | 12.656 | (1.000) | 199884 | 125.000 | | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.410 | 14.397 | (1.000) | 92359 | 125.000 | | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.622 | 9.626 | (0.939) | 147837 | 151.216 | 76 | |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.970 | 9.957 | (0.973) | 91384 | 138.789 | 69 | |
| \$ 6 Toluene-d8 | 98 | | | 11.537 | 11.542 | (0.912) | 452135 | 133.774 | 67 | |
| \$ 7 Bromofluorobenzene | 95 | | | 13.487 | 13.492 | (0.936) | 127780 | 102.716 | 51 | |
| 8 Dichlorodifluoromethane | 85 | | | Compound Not Detected. | | | | | | |
| 9 Chloromethane | 50 | | | Compound Not Detected. | | | | | | |
| 10 Vinyl Chloride | 62 | | | Compound Not Detected. | | | | | | |
| 11 Bromomethane | 94 | | | Compound Not Detected. | | | | | | |
| 12 Chloroethane | 64 | | | Compound Not Detected. | | | | | | |
| 13 Trichlorofluoromethane | 101 | | | Compound Not Detected. | | | | | | |
| 14 Acrolein | 56 | | | Compound Not Detected. | | | | | | |
| 17 1,1-Dichloroethene | 96 | | | 7.010 | 7.015 | (0.684) | 86405 | 91.8368 | 46 | |

| Compounds | QUANT SIG | | | | | | CONCENTRATIONS | |
|------------------------------|-----------|------------------------|--------|---------|--------|----------|--------------------|------------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== | |
| 18 Acetone | 43 | 7.062 | 7.067 | (0.689) | 11947 | 114.709 | 57 | |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| 25 Methylene Chloride | 84 | 7.706 | 7.711 | (0.752) | 2925 | 3.17781 | 1.6 (a) | |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | | |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.560 | 8.564 | (0.835) | 87984 | 50.6181 | 25 | |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | | |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| 40 Chloroform | 83 | Compound Not Detected. | | | | | | |
| 42 1,1,1-Trichloroethane | 97 | 9.691 | 9.696 | (0.946) | 578256 | 402.009 | 200 | |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| 48 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| 49 Trichloroethene | 130 | Compound Not Detected. | | | | | | |
| 51 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | | |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| 65 Tetrachloroethene | 164 | 12.042 | 12.047 | (0.952) | 5259 | 6.33671 | 3.2 (a) | |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | | |
| 69 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|----|--------|--------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | | | | | | |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | | | | | | |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d

Date : 20-MAR-2009 00:56

Client ID: HW-2DL

Instrument: 5972hp73.i

Sample Info: 0903084-02RE1:TD

Purge Volume: 25.0

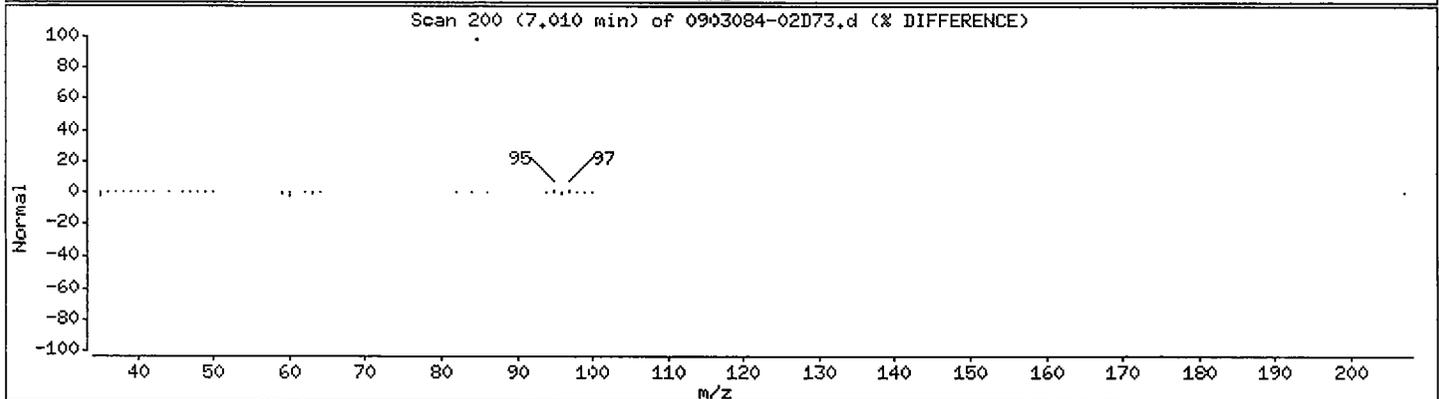
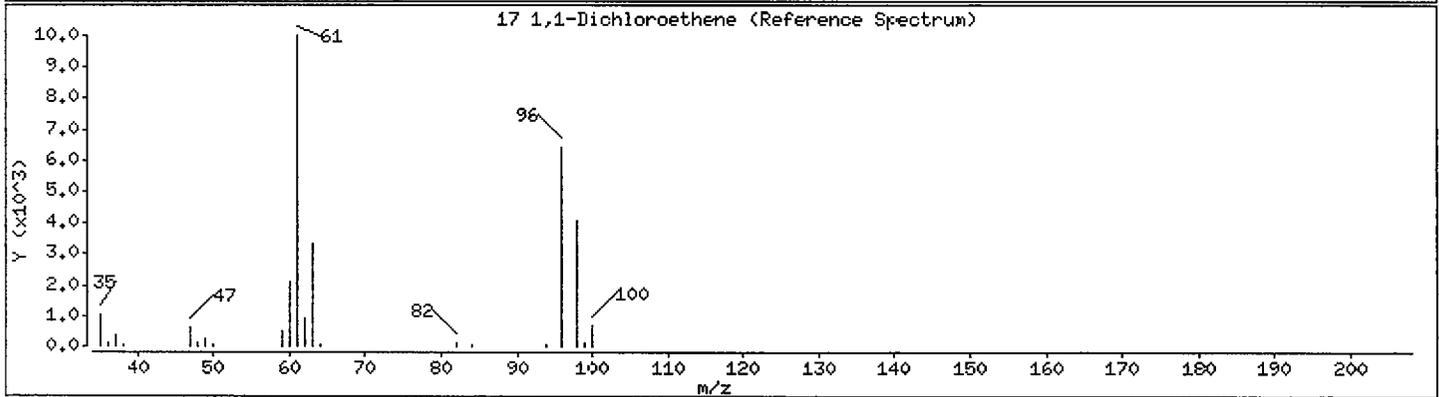
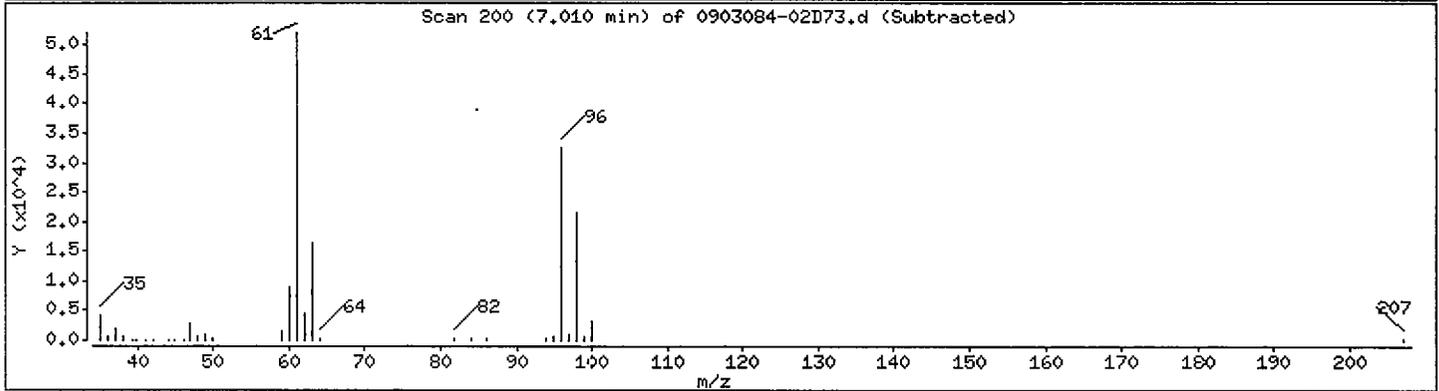
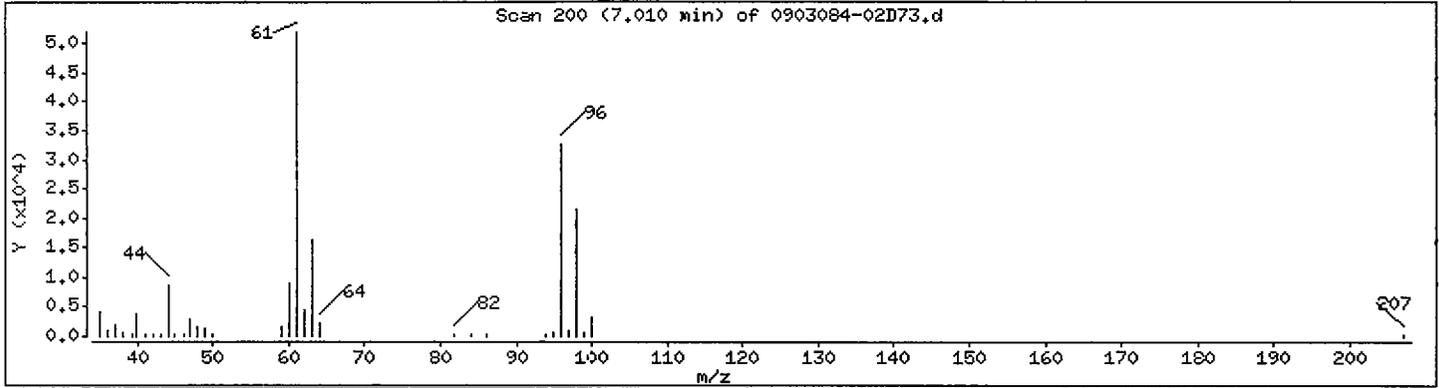
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

17 1,1-Dichloroethene

Concentration: 46 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d

Date : 20-MAR-2009 00:56

Client ID: MW-2DL

Instrument: 5972hp73.i

Sample Info: 0903084-02RE1:TD

Purge Volume: 25.0

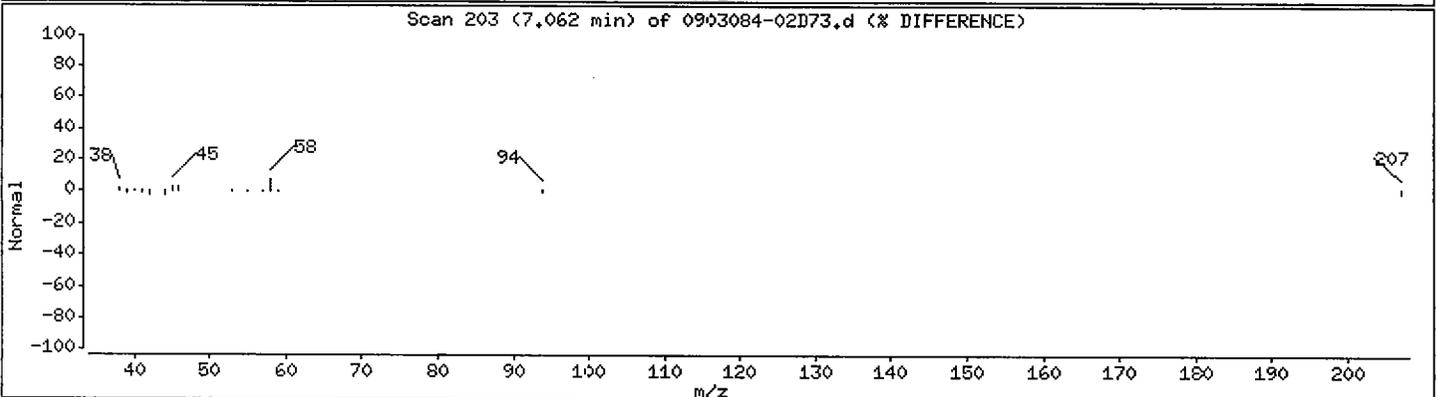
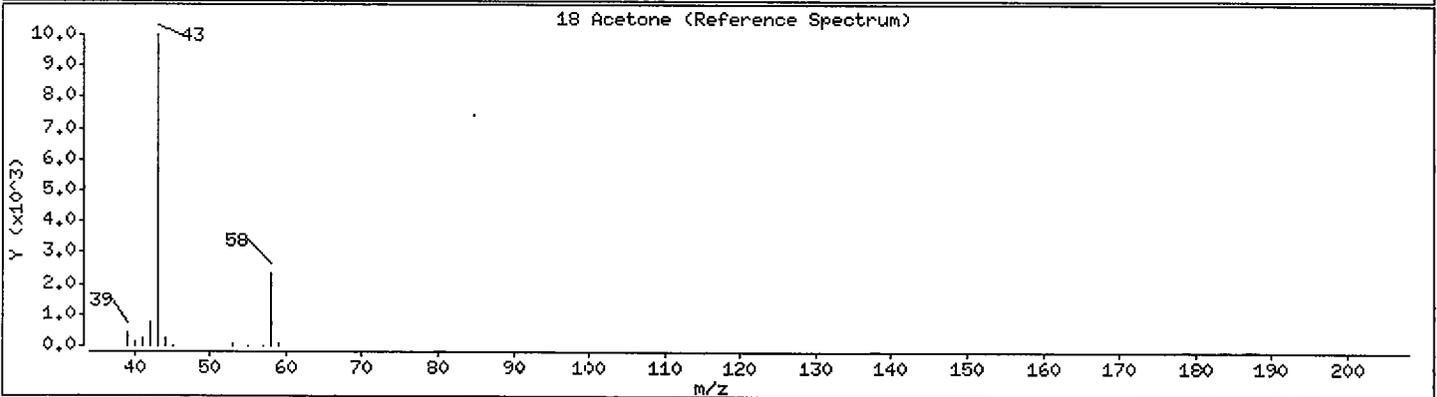
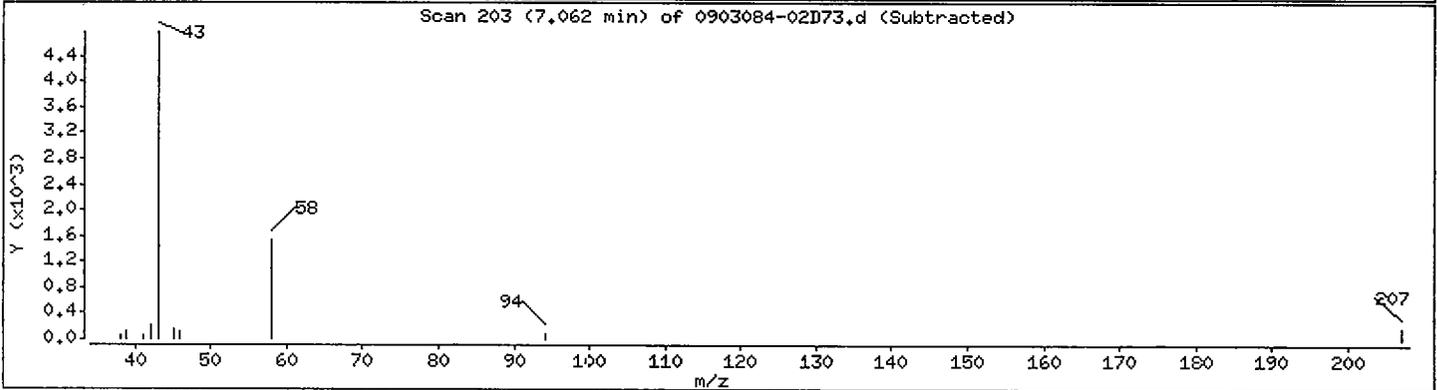
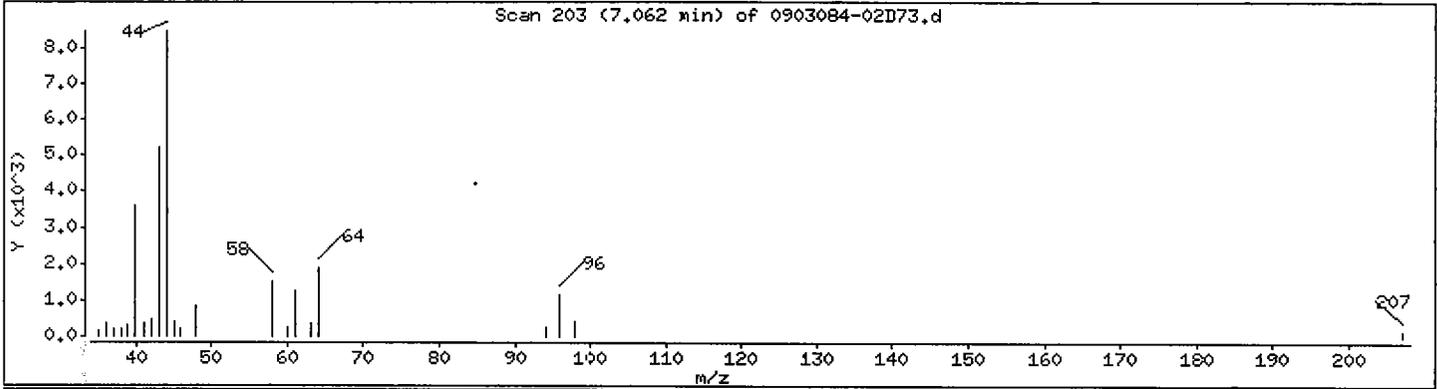
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 57 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d

Date : 20-MAR-2009 00:56

Client ID: MW-2DL

Instrument: 5972hp73.i

Sample Info: 0903084-02RE1:TD

Purge Volume: 25.0

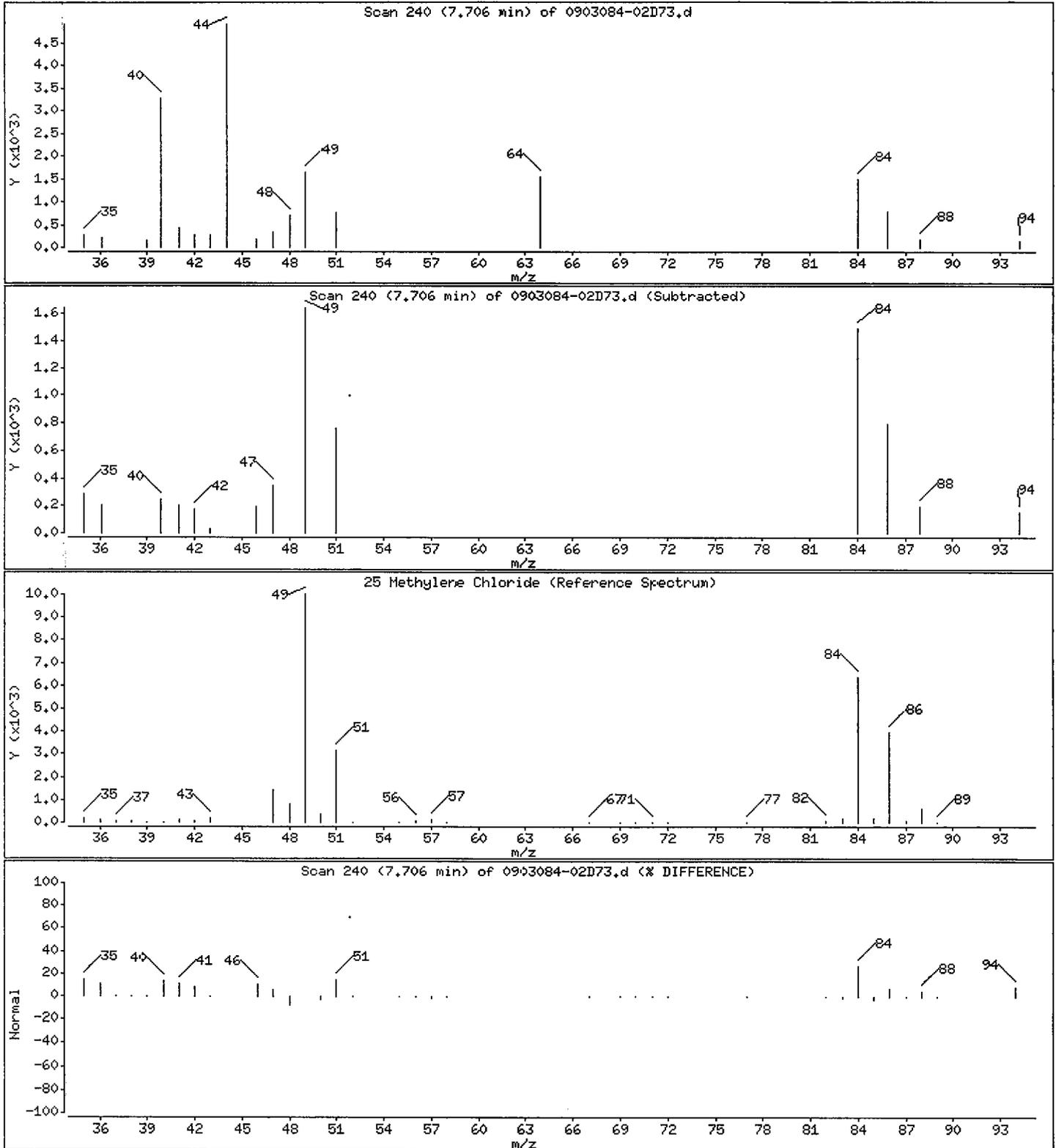
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 1.6 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d

Date : 20-MAR-2009 00:56

Client ID: MW-2DL

Instrument: 5972hp73.i

Sample Info: 0903084-02RE1:TD

Purge Volume: 25.0

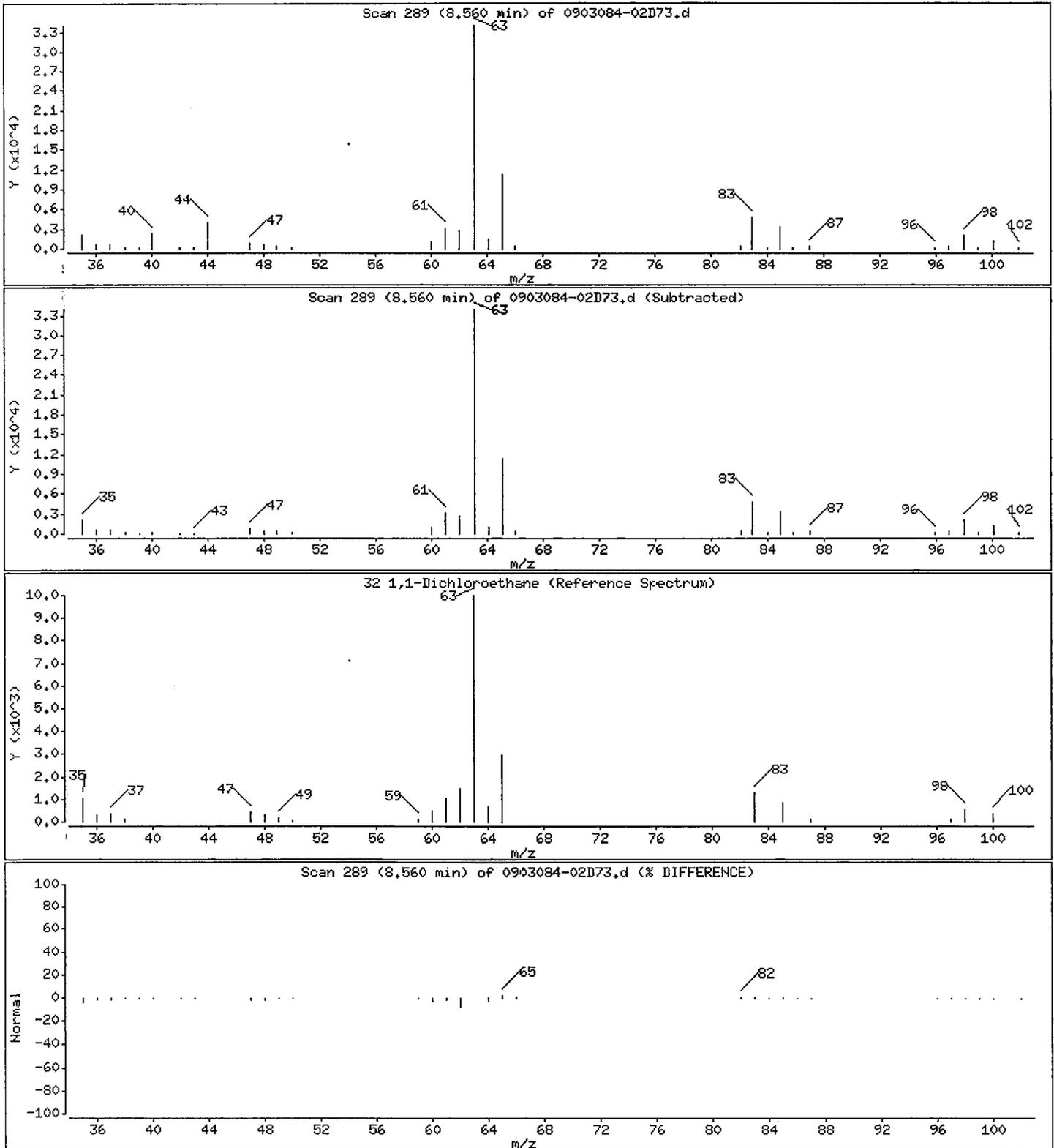
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

32 1,1-Dichloroethane

Concentration: 25 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d

Date : 20-MAR-2009 00:56

Client ID: MW-2DL

Instrument: 5972hp73.i

Sample Info: 0903084-02RE1:TD

Purge Volume: 25.0

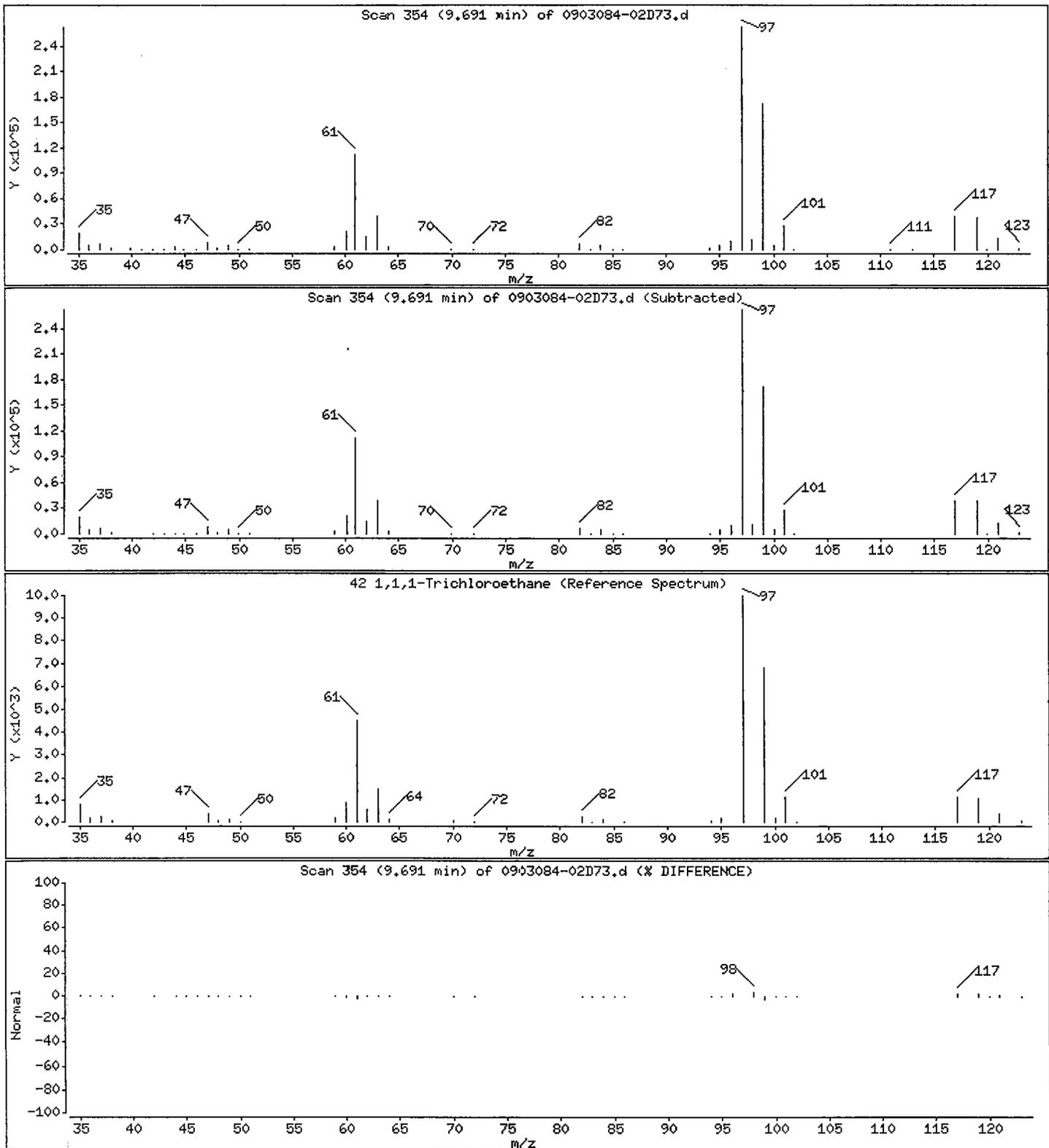
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

42 1,1,1-Trichloroethane

Concentration: 200 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/0903084-02D73.d

Date : 20-MAR-2009 00:56

Client ID: MW-2DL

Instrument: 5972hp73.i

Sample Info: 0903084-02RE1:TD

Purge Volume: 25.0

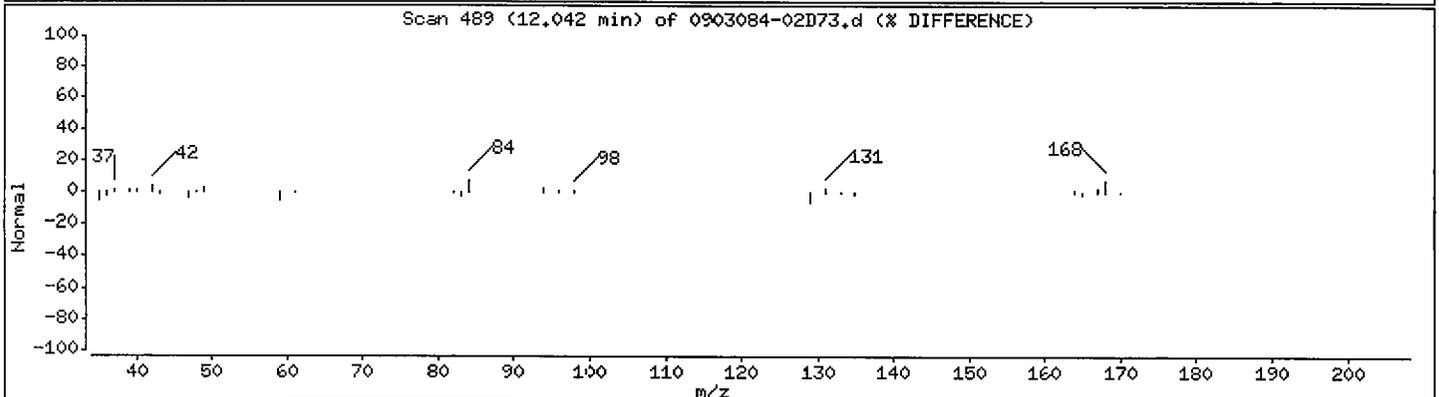
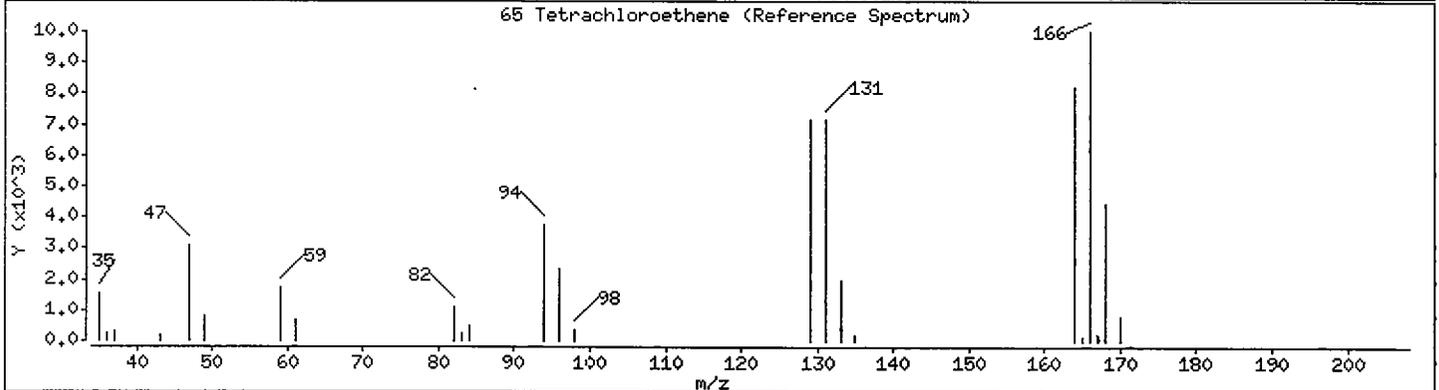
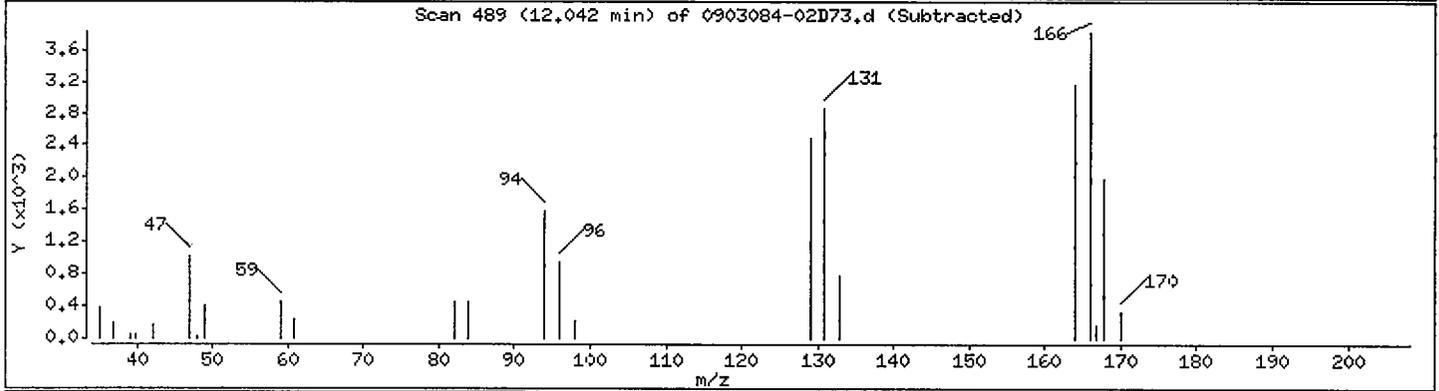
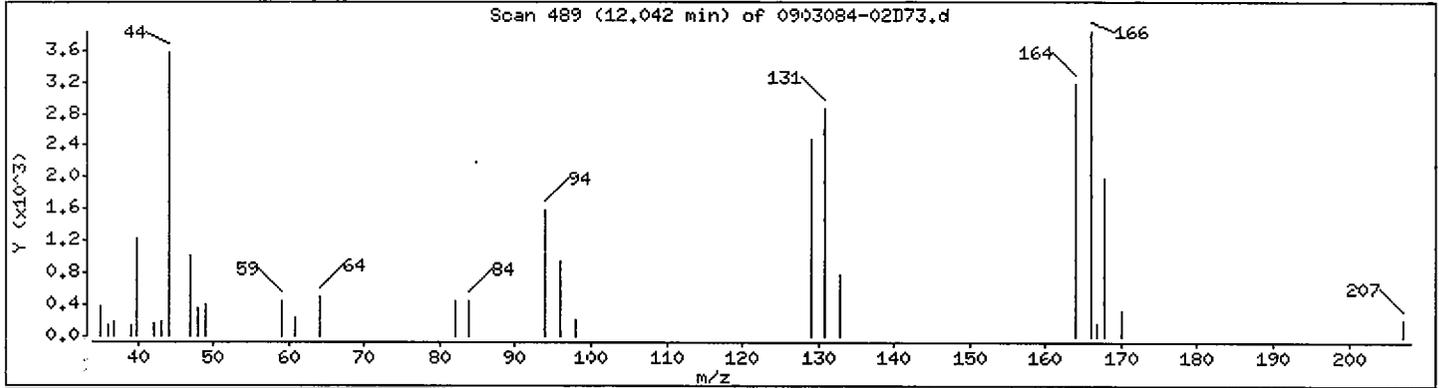
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 3.2 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-01

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.18 | J |
| 75-01-4 | Vinyl Chloride | 0.14 | J |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 2.4 | |
| 75-69-4 | Trichlorofluoromethane | 0.11 | J |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.5 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.25 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.20 | J |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.1 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 24 | |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 2.5 | |
| 78-87-5 | 1,2-Dichloropropane | 0.26 | J |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-01

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.91 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319A73_REG.k/0903084-0173.d

Date: 19-MAR-2009 18:28

Client ID: MW-3

Sample Info: 0903084-01:JAO

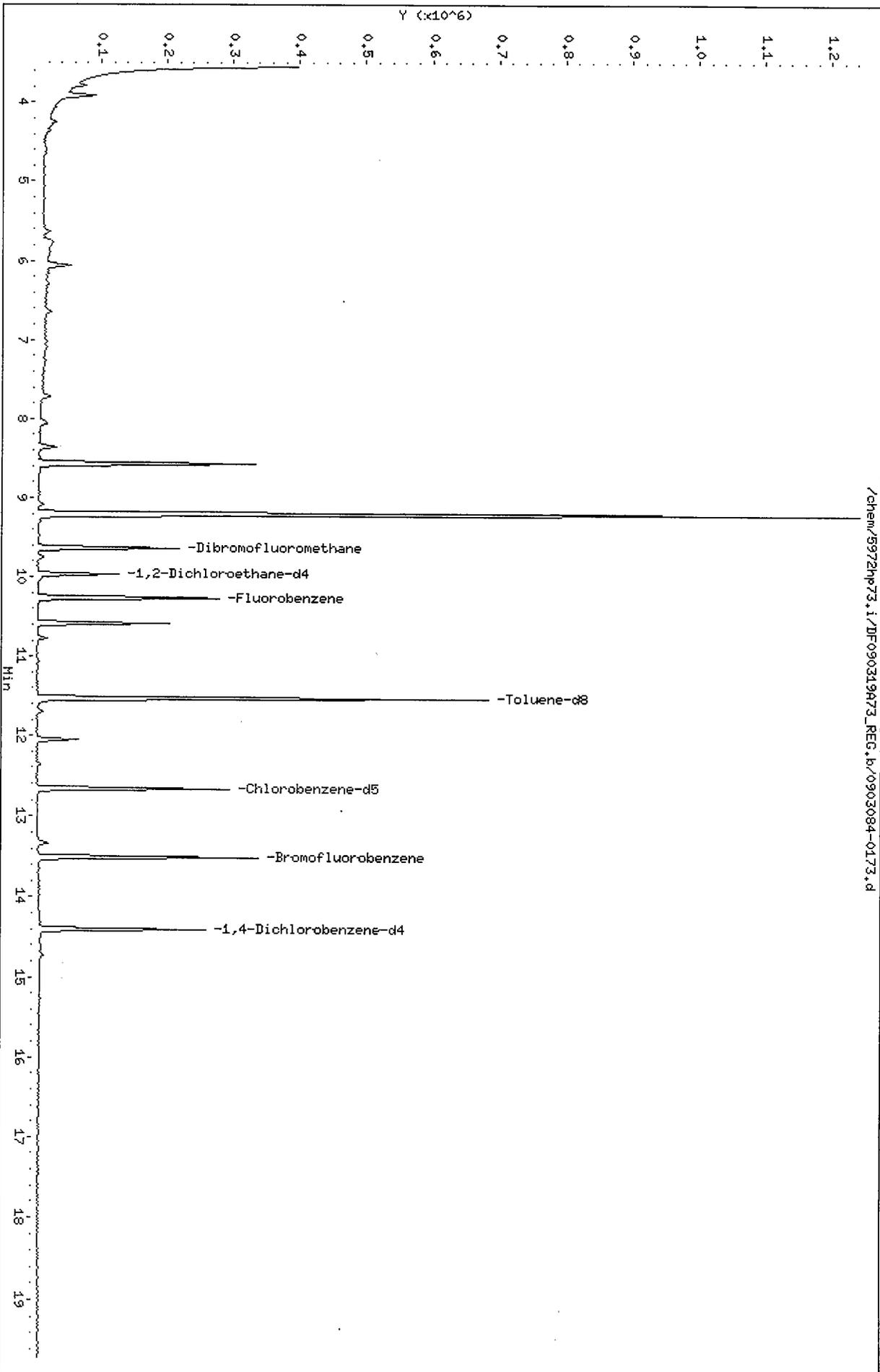
Purge Volume: 25.0

Column Phase: SPB-624

Instrument: 5972hp73.i

Operator: JAO

Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319A73_REG.b/0903084-0173.d
 Lab Smp Id: 0903084-01 Client Smp ID: MW-3
 Inj Date : 19-MAR-2009 18:28
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 0903084-01:JAO
 Misc Info : MW-3
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:15 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.268 | 10.251 | (1.000) | 292819 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.670 | 12.654 | (1.000) | 176593 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.412 | 14.412 | (1.000) | 72671 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.641 | 9.624 | (0.939) | 134843 | 143.712 | 5.7 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.972 | 9.972 | (0.971) | 78974 | 124.974 | 5.0 |
| \$ 6 Toluene-d8 | 98 | | | 11.539 | 11.539 | (0.911) | 435944 | 145.996 | 5.8 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.506 | 13.489 | (0.937) | 116702 | 119.226 | 4.8 |
| 8 Dichlorodifluoromethane | 85 | | | Compound Not Detected. | | | | | |
| 9 Chloromethane | 50 | | | 4.347 | 4.348 | (0.423) | 4513 | 4.55975 | 0.18 (a) |
| 10 Vinyl Chloride | 62 | | | 4.626 | 4.627 | (0.451) | 1660 | 3.52214 | 0.14 (a) |
| 11 Bromomethane | 94 | | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | | 5.653 | 5.636 | (0.551) | 11354 | 60.5486 | 2.4 |
| 13 Trichlorofluoromethane | 101 | | | 6.141 | 6.124 | (0.598) | 1802 | 2.86743 | 0.11 (a) |
| 14 Acrolein | 56 | | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | | Compound Not Detected. | | | | | |

[Handwritten signature]
3/20/09

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | | |
|------------------------------|-----------|------------------------|----------------|---------|----------|-----------------|---------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) | |
| 18 Acetone | 43 | 7.081 | 7.064 | (0.690) | 6208 | 62.1070 | 2.5 | |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | | |
| 25 Methylene Chloride | 84 | 7.725 | 7.708 | (0.752) | 5462 | 6.18305 | 0.25 (a) | |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | 8.074 | 8.057 | (0.786) | 5121 | 5.09460 | 0.20 (a) | |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.579 | 8.579 | (0.835) | 338158 | 202.708 | 8.1 | |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | 9.205 | 9.189 | (0.897) | 553835 | 588.106 | 24 | |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | | |
| 40 Chloroform | 83 | Compound Not Detected. | | | | | | |
| 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | | |
| 47 Benzene | 78 | Compound Not Detected. | | | | | | |
| 48 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | | |
| 49 Trichloroethene | 130 | 10.581 | 10.581 | (1.031) | 64797 | 62.9282 | 2.5 | |
| 51 1,2-Dichloropropane | 63 | 10.773 | 10.773 | (1.049) | 4894 | 6.48123 | 0.26 (a) | |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | | |
| 65 Tetrachloroethene | 164 | 12.044 | 12.044 | (0.951) | 16659 | 22.7203 | 0.91 | |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | | |
| 69 Chlorobenzene | 112 | Compound Not Detected. | | | | | | |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|----|--------|--------|------------------------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | |
| 79 1,2,3-Trichloropropane | 110 | | | | Compound Not Detected. | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | Compound Not Detected. | | |
| 90 1,3-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 91 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 93 1,2-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| 96 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 97 Naphthalene | 128 | | | | Compound Not Detected. | | |
| M 100 Xylene (total) | 106 | | | | Compound Not Detected. | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0173.d

Date: 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAO

Purge Volume: 25.0

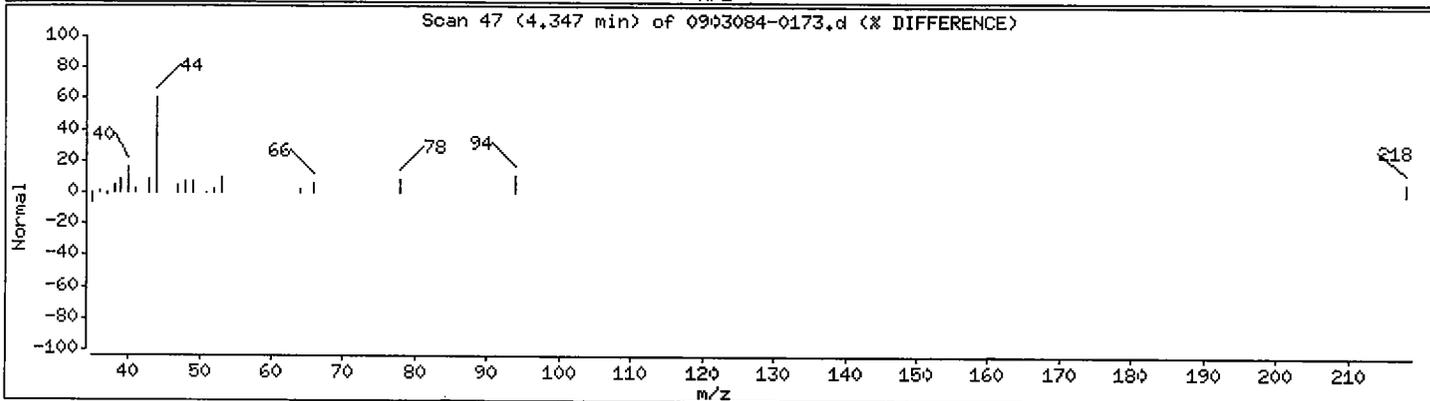
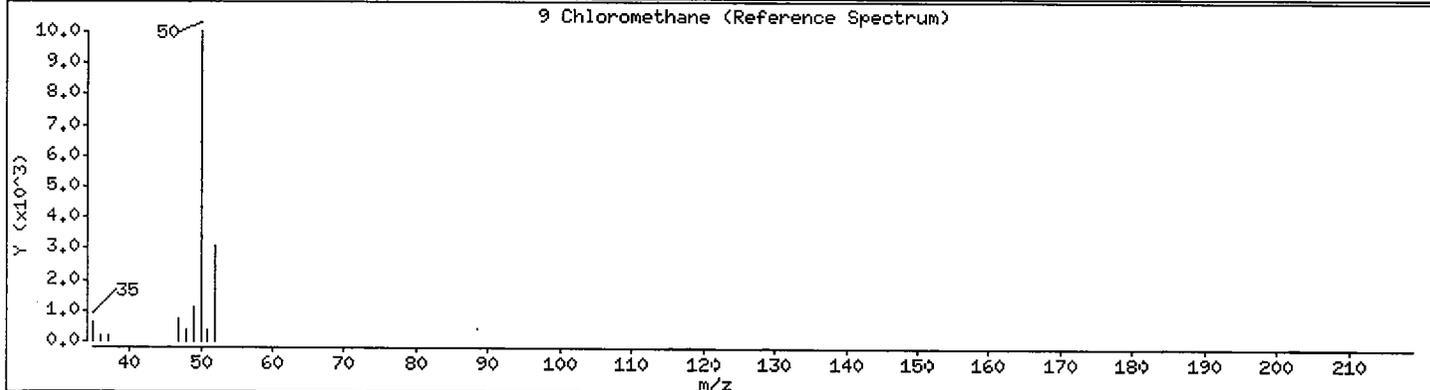
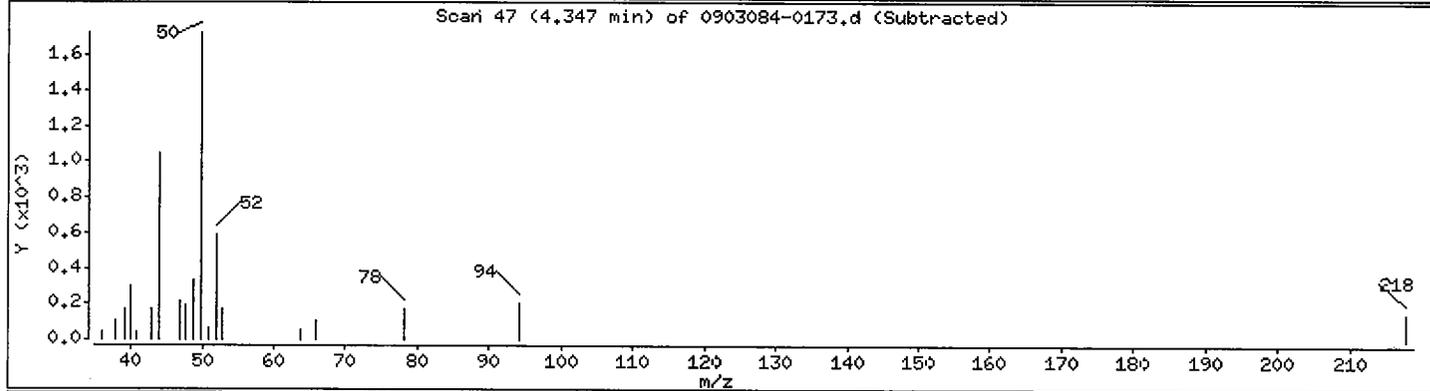
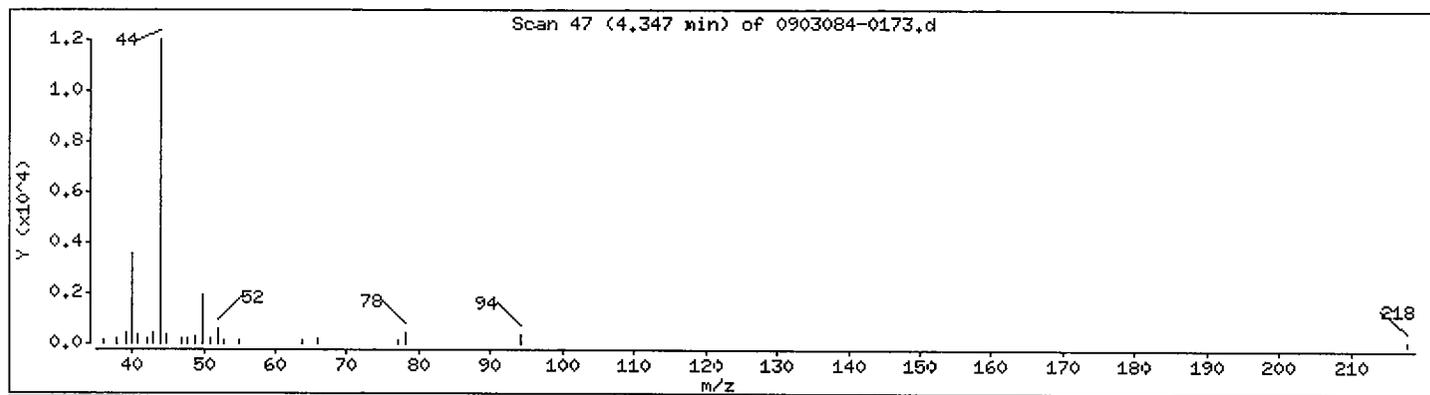
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

9 Chloromethane

Concentration: 0.18 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0173.d

Date : 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAO

Purge Volume: 25.0

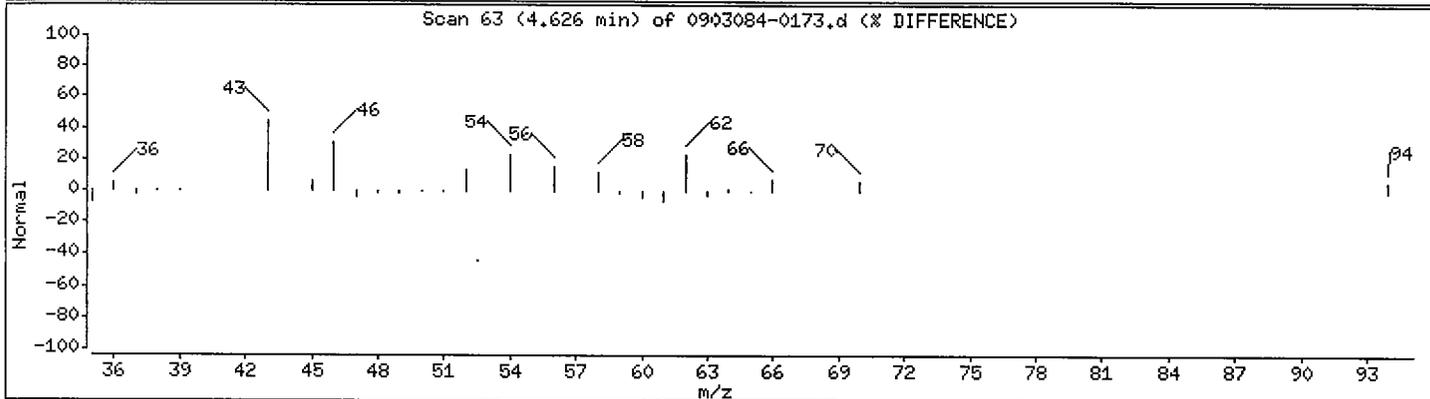
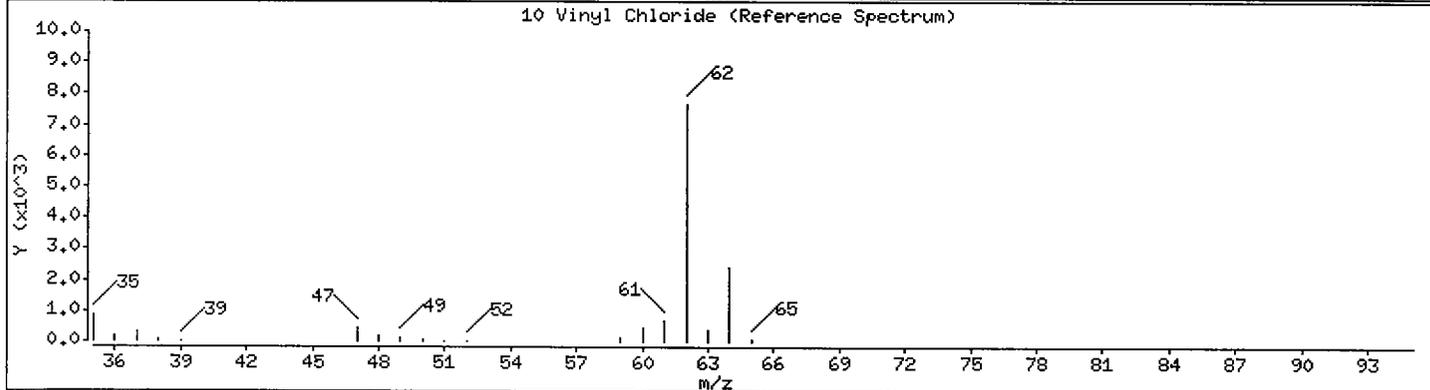
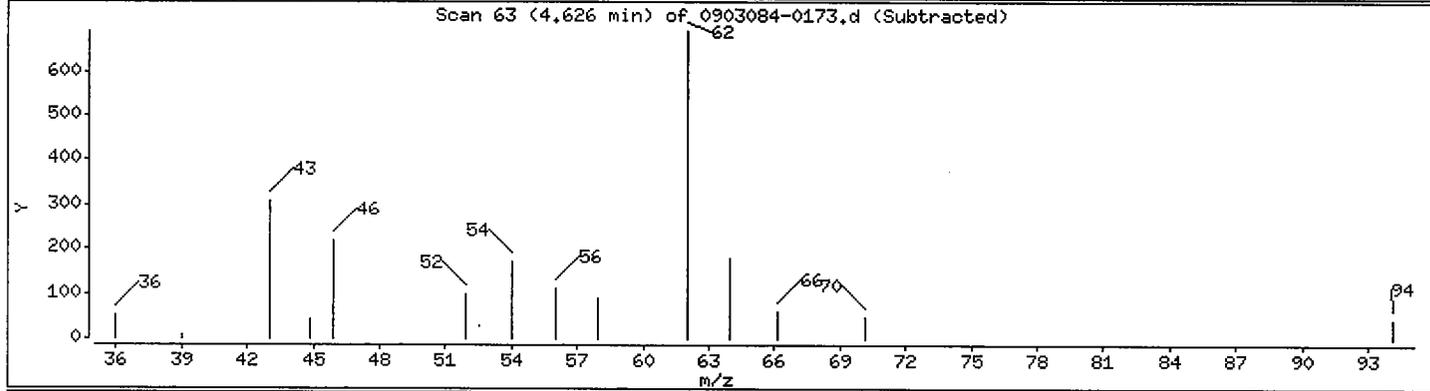
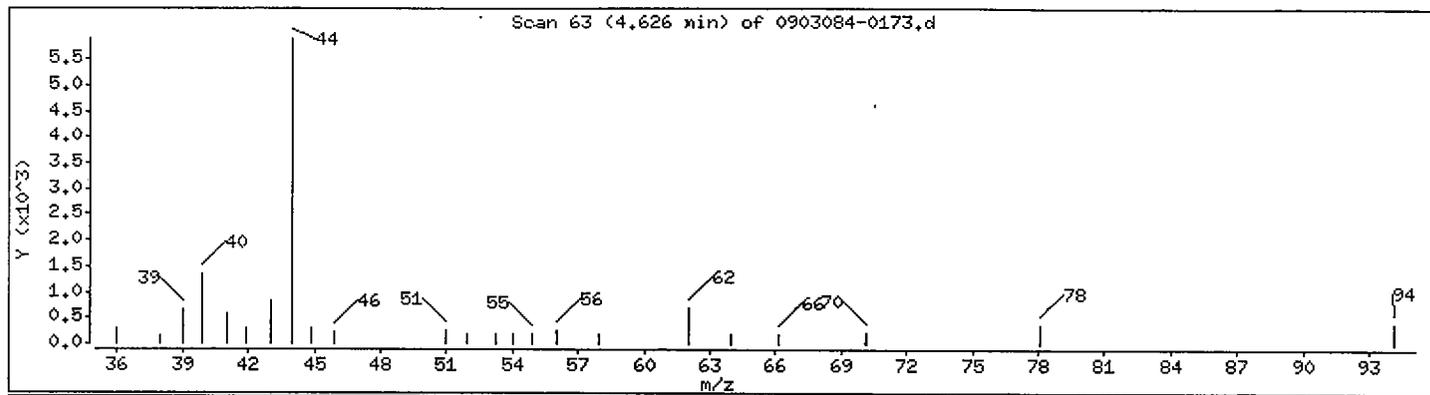
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

10 Vinyl Chloride

Concentration: 0.14 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0173.d

Date : 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAO

Purge Volume: 25.0

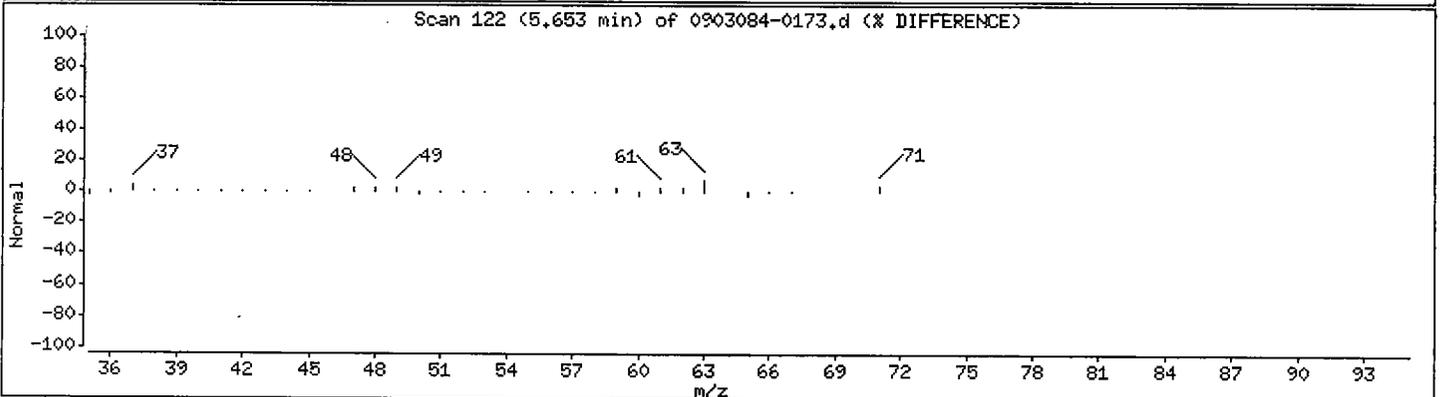
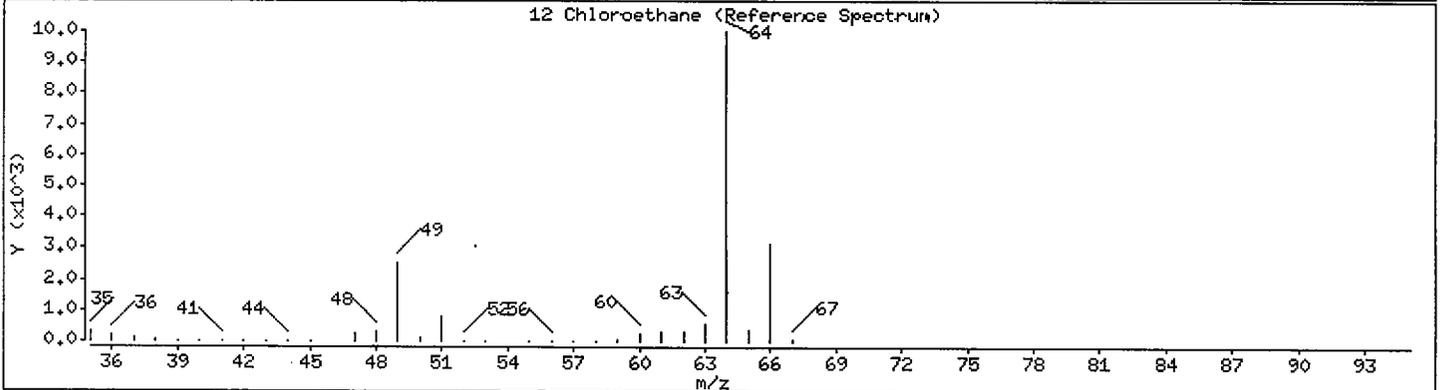
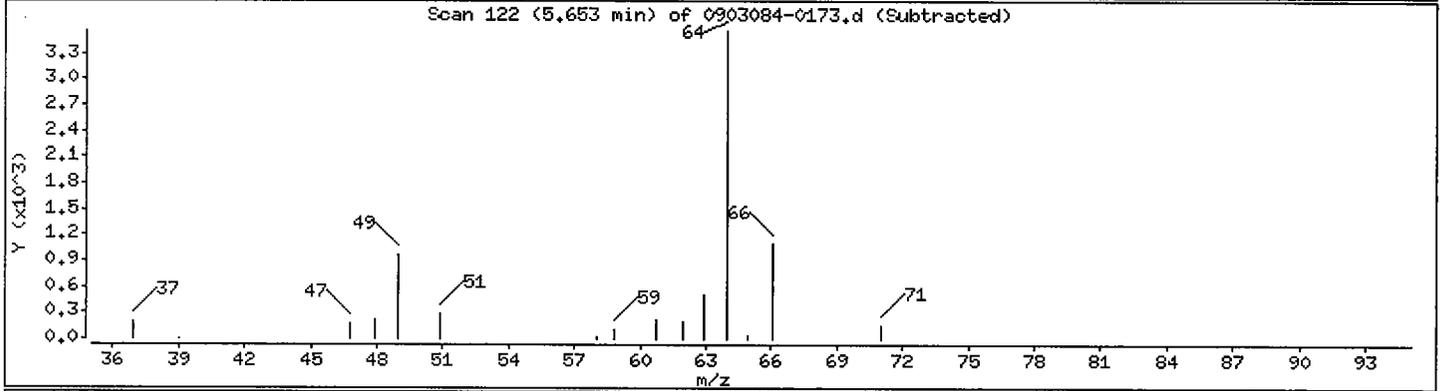
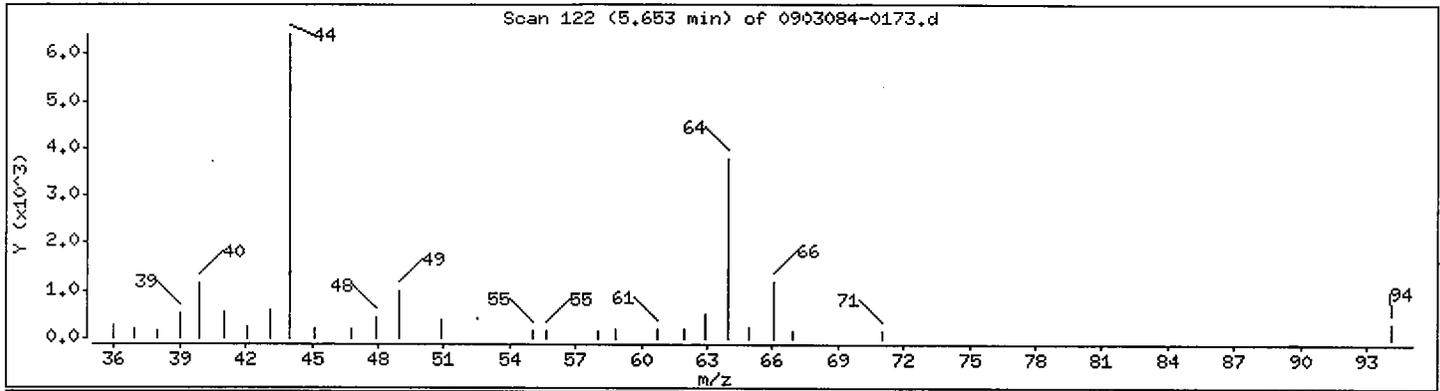
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

12 Chloroethane

Concentration: 2.4 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0173.d

Date : 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAO

Purge Volume: 25.0

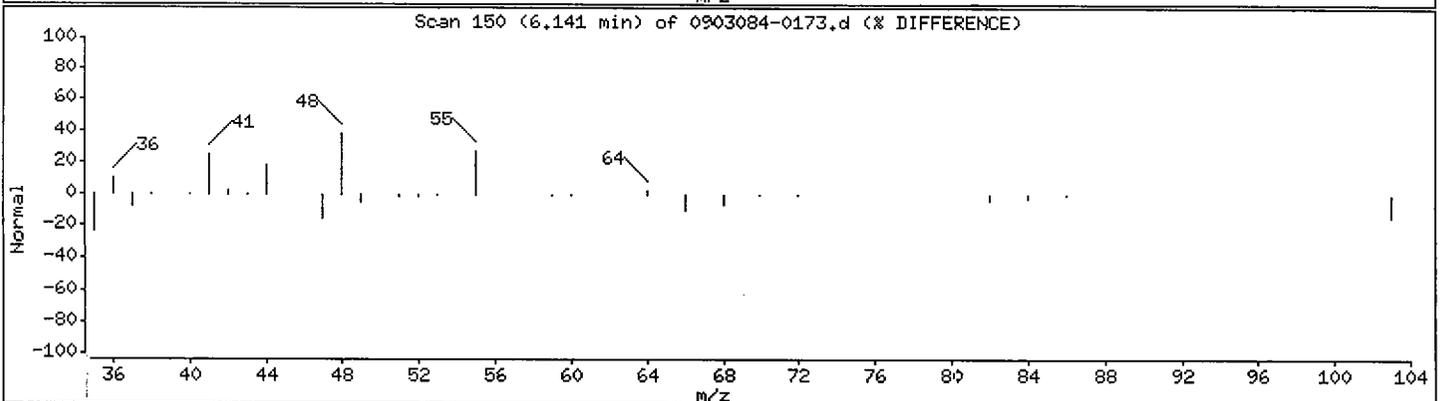
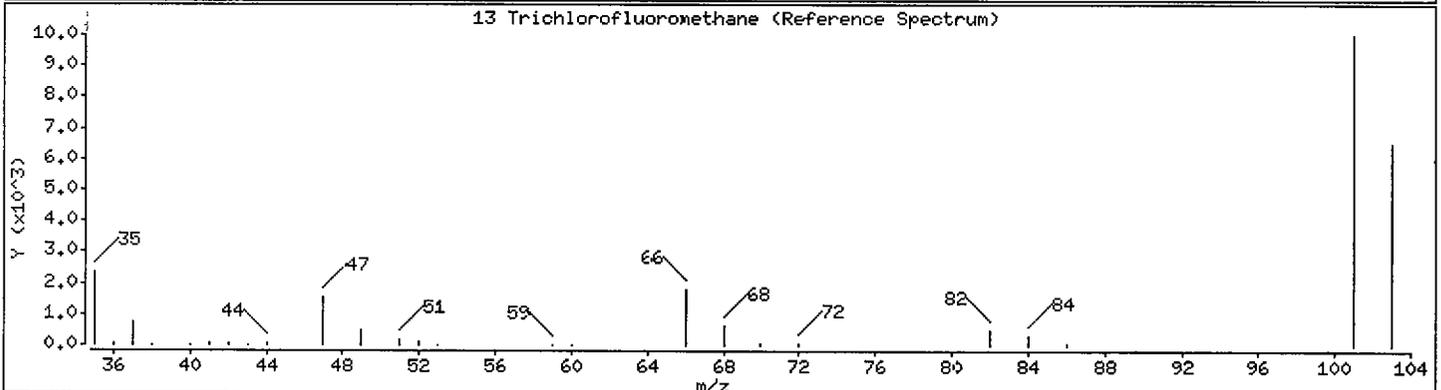
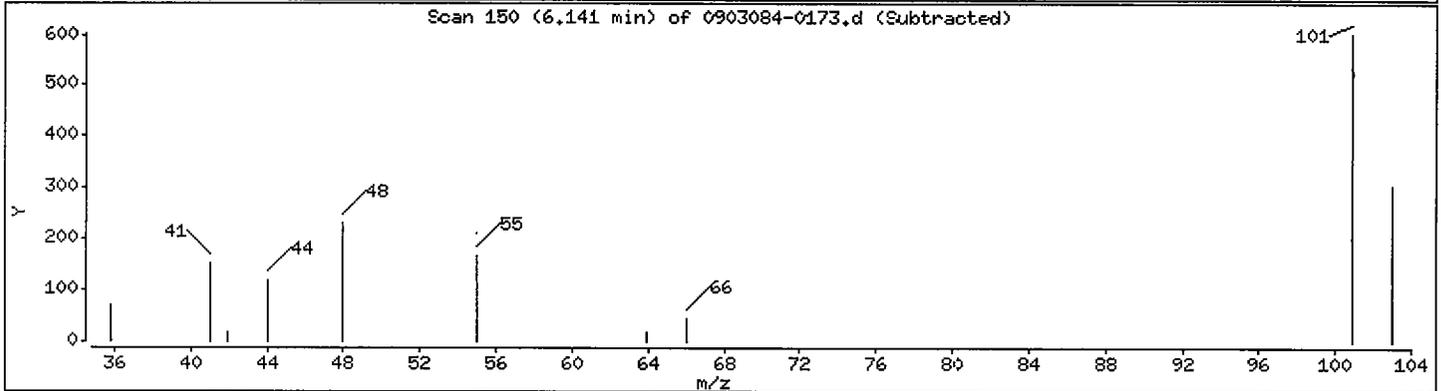
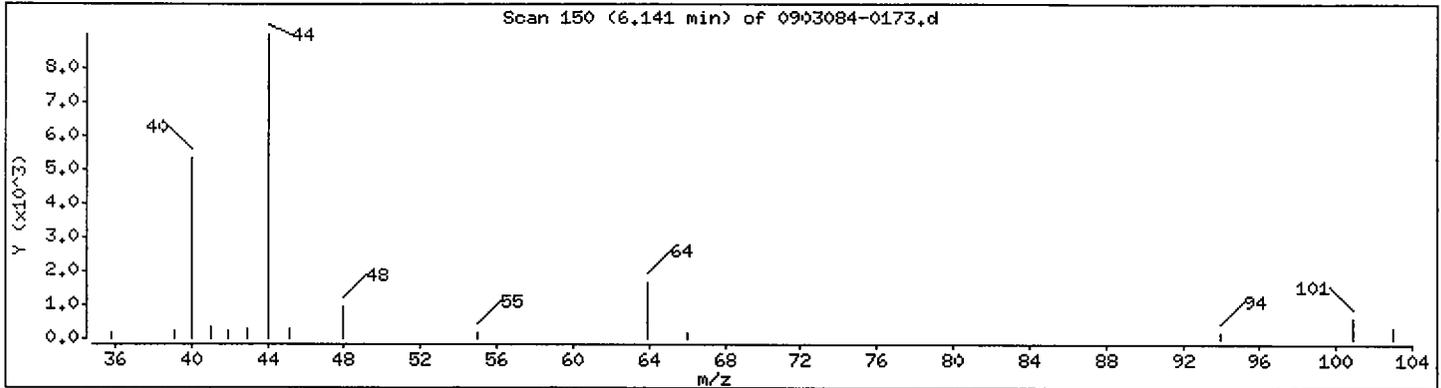
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

13 Trichlorofluoromethane

Concentration: 0.11 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0173.d

Date: 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAO

Purge Volume: 25.0

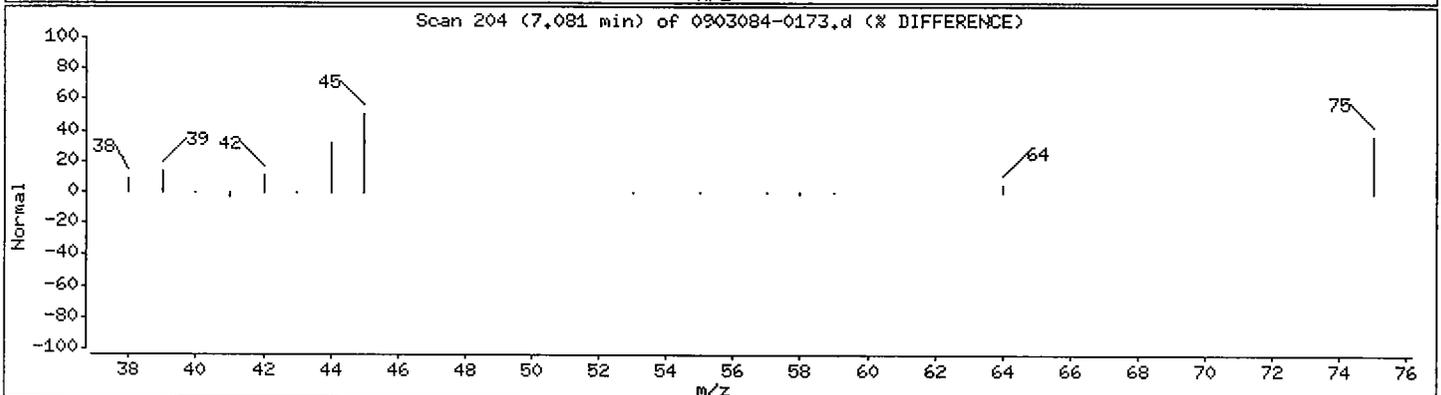
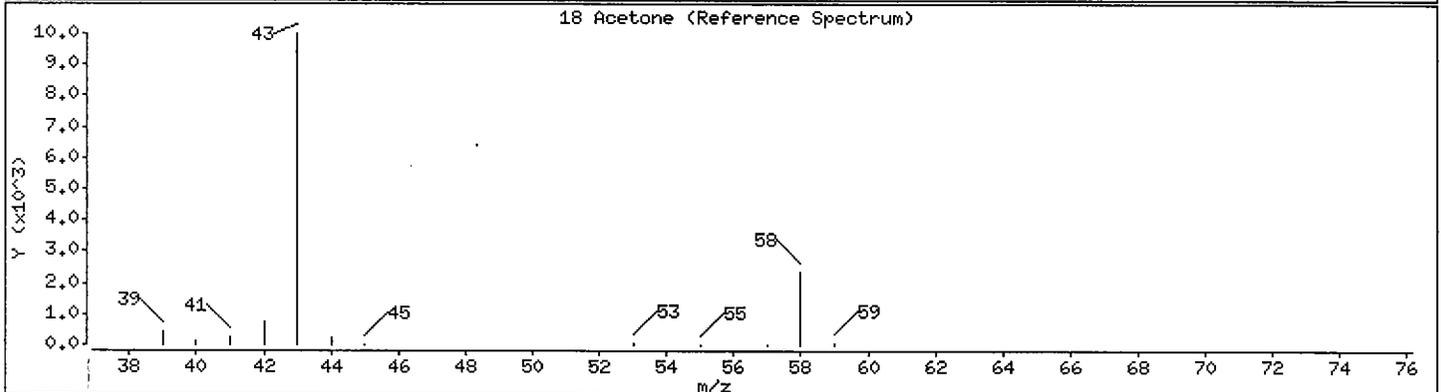
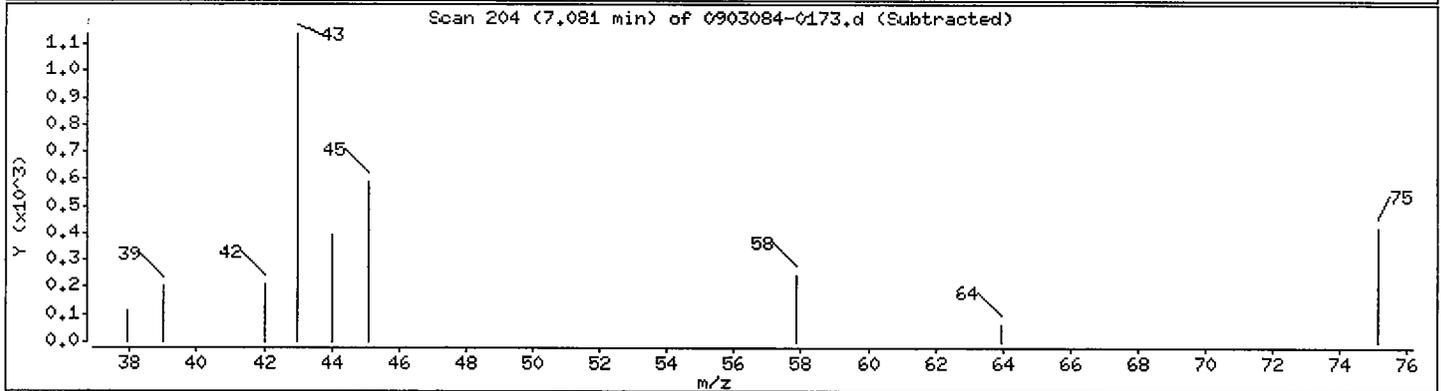
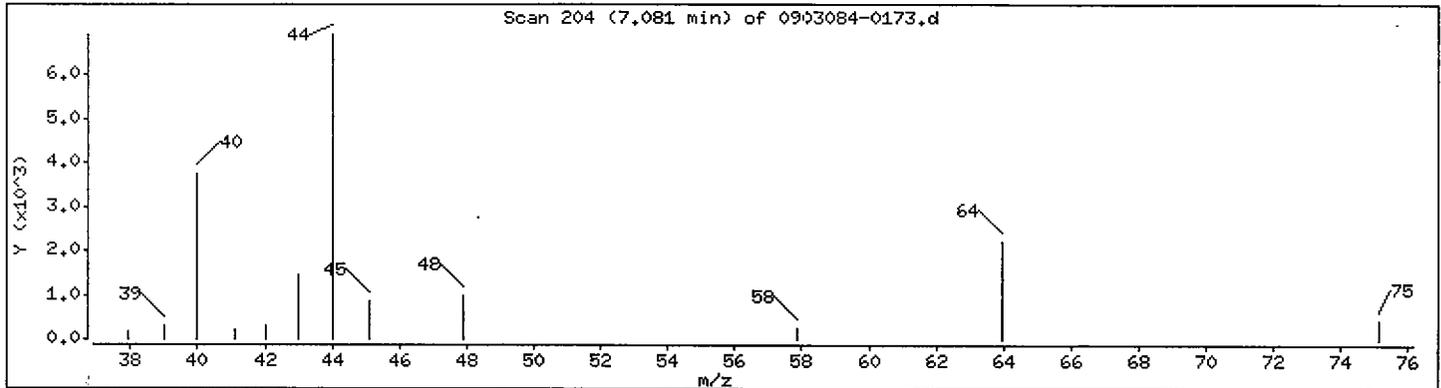
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 2.5 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0173.d

Date : 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01:JAO

Purge Volume: 25.0

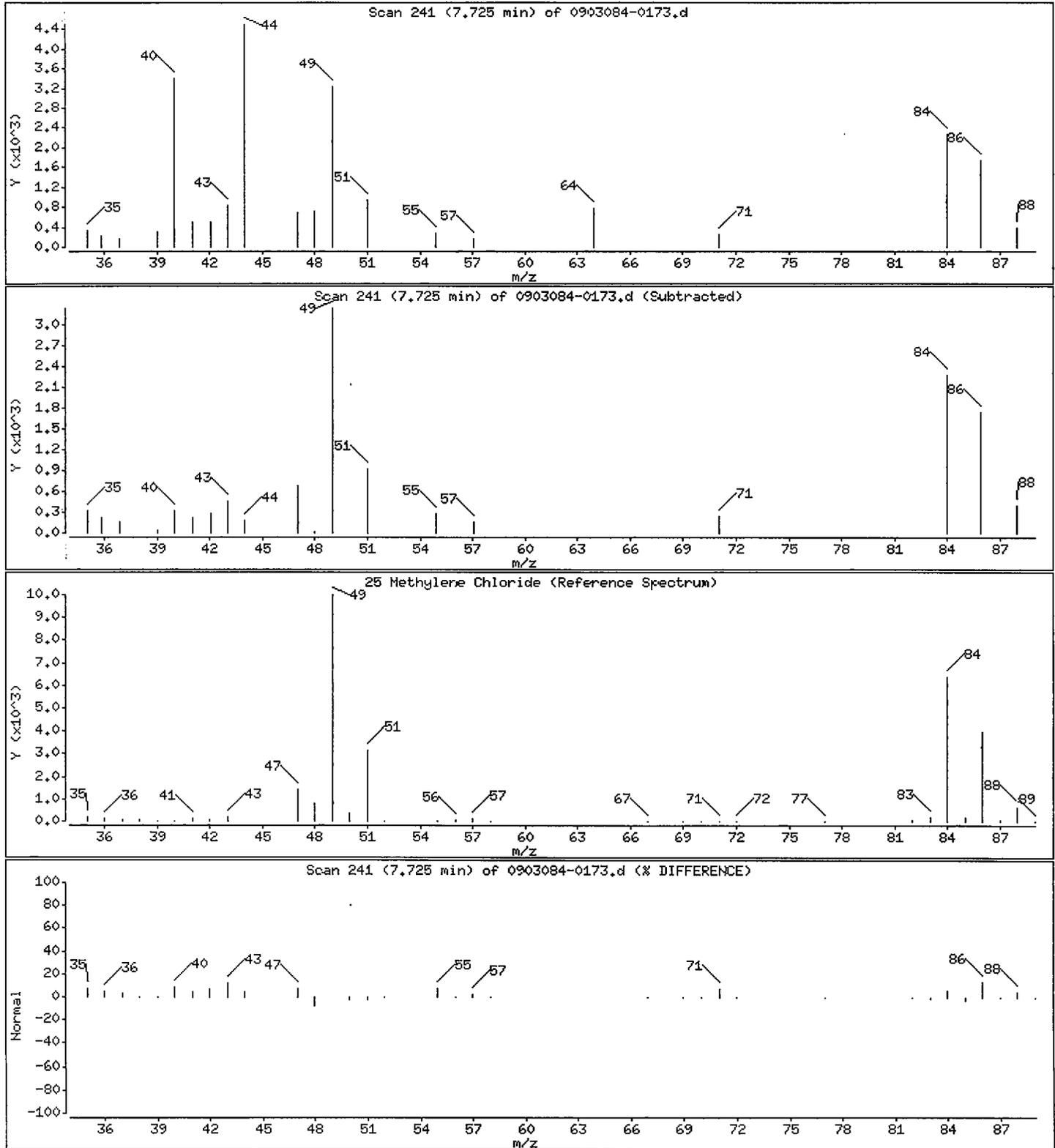
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.25 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0173.d

Date: 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01:JAO

Purge Volume: 25.0

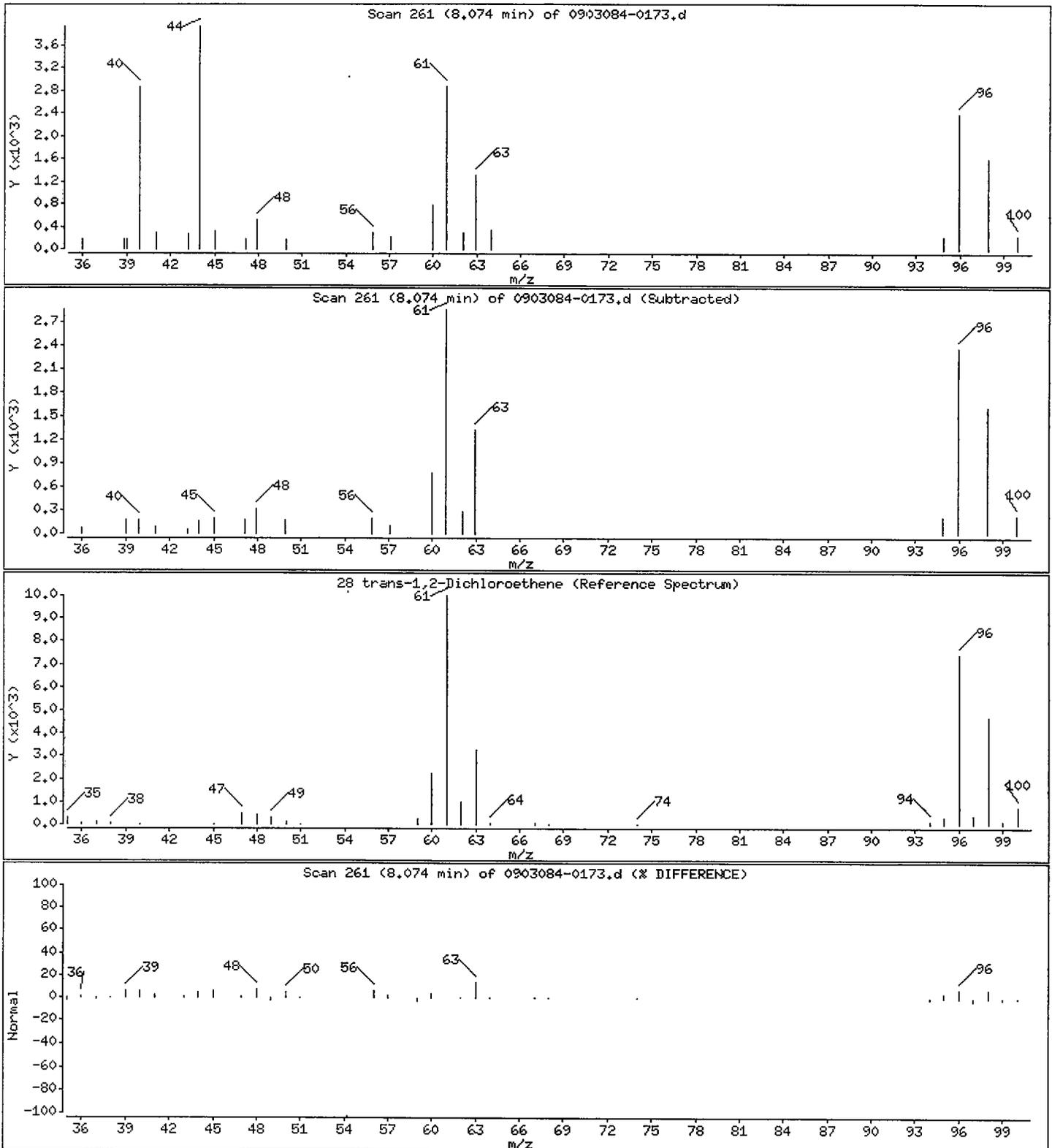
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

28 trans-1,2-Dichloroethene

Concentration: 0.20 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0173.d

Date : 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAD

Purge Volume: 25.0

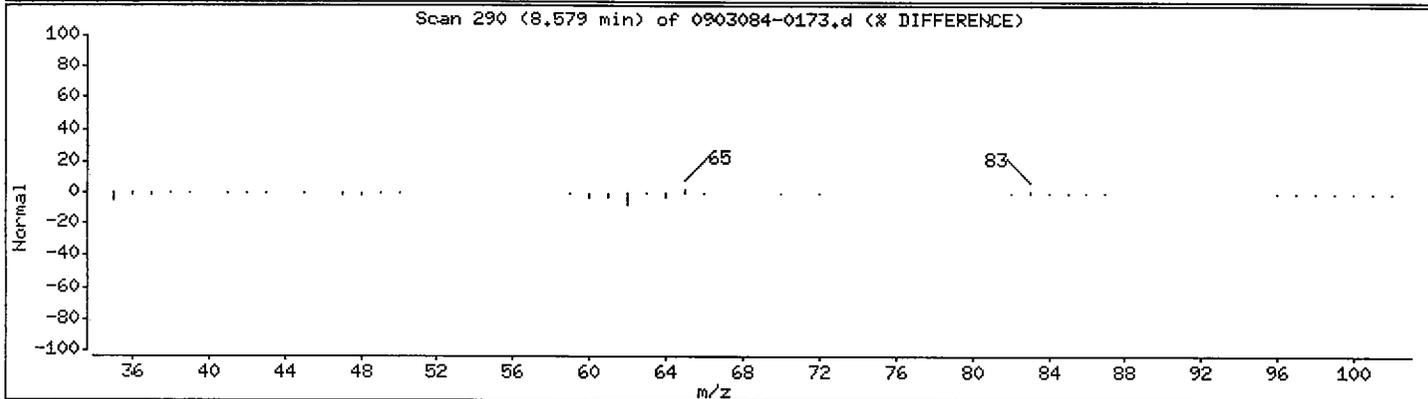
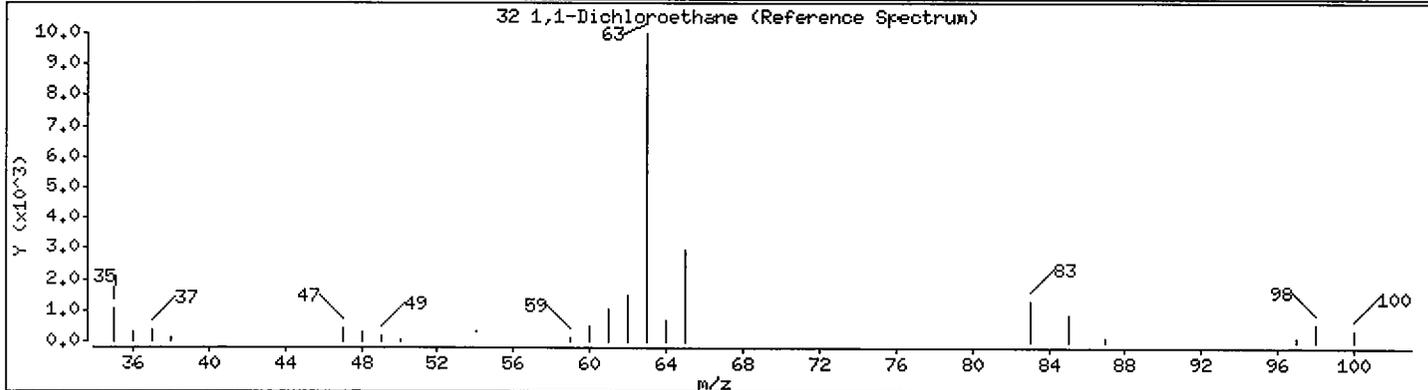
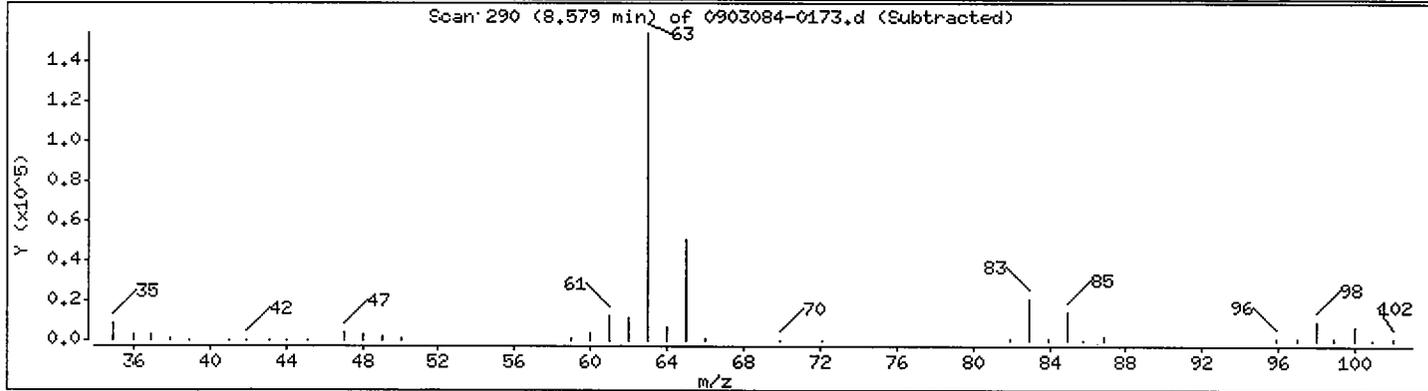
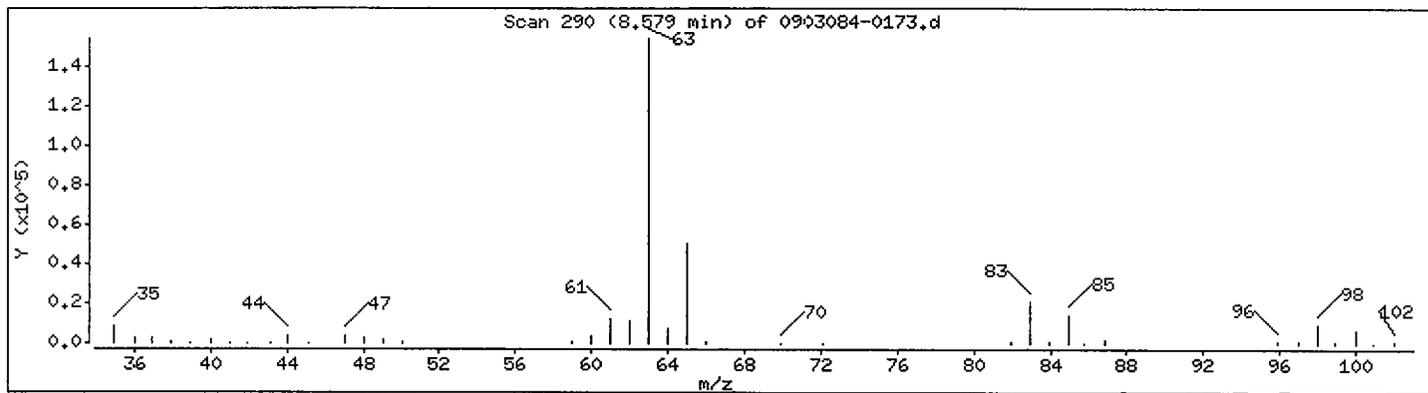
Operator: JAD

Column phase: SPB-624

Column diameter: 0.32

32 1,1-Dichloroethane

Concentration: 8.1 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0173.d

Date : 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAD

Purge Volume: 25.0

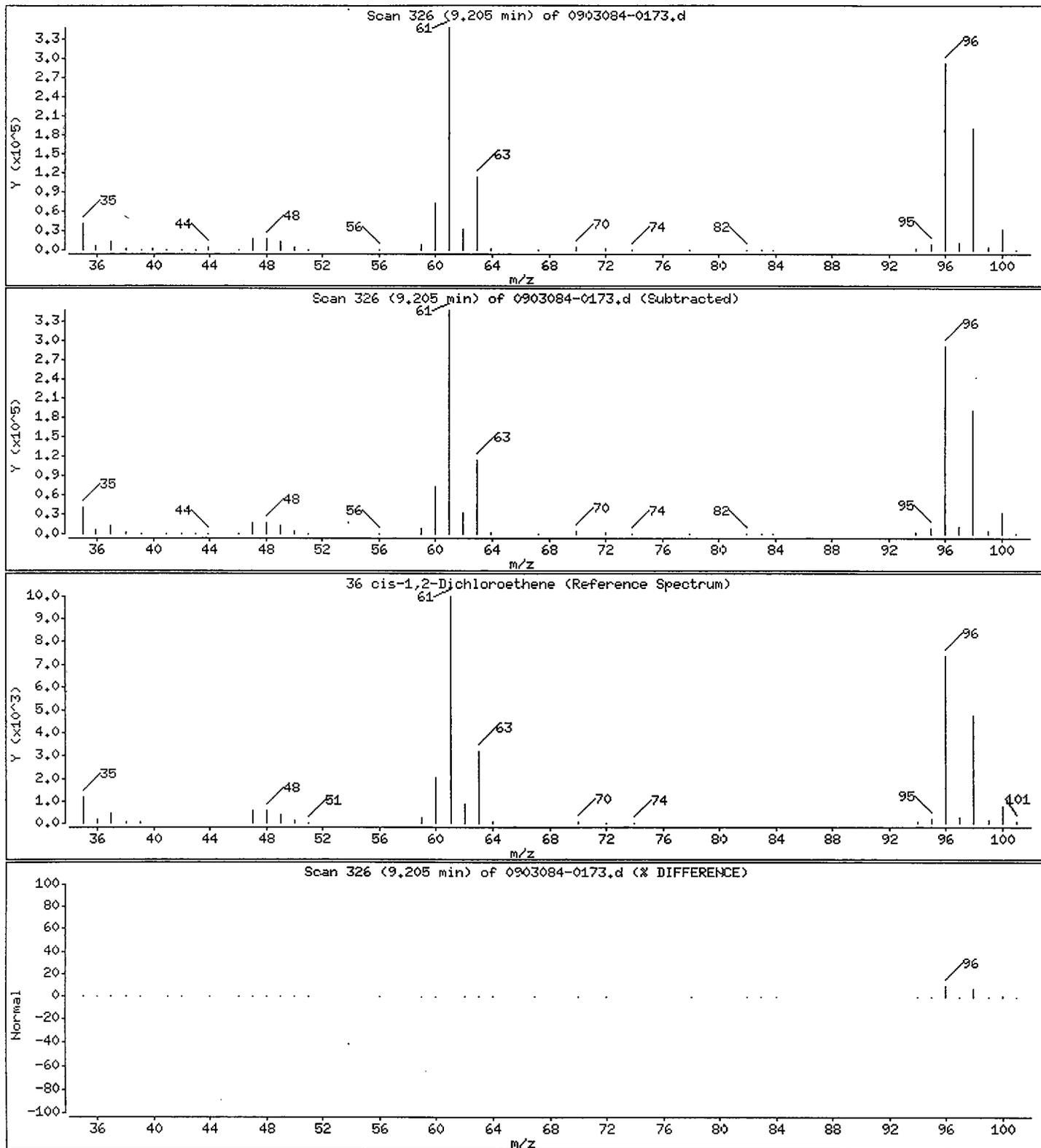
Operator: JAD

Column phase: SPB-624

Column diameter: 0.32

36 cis-1,2-Dichloroethene

Concentration: 24 ug/L



Date : 19-MAR-2009 18:28

Client ID: MM-3

Instrument: 5972hp73.i

Sample Info: 0903084-01;JAO

Purge Volume: 25.0

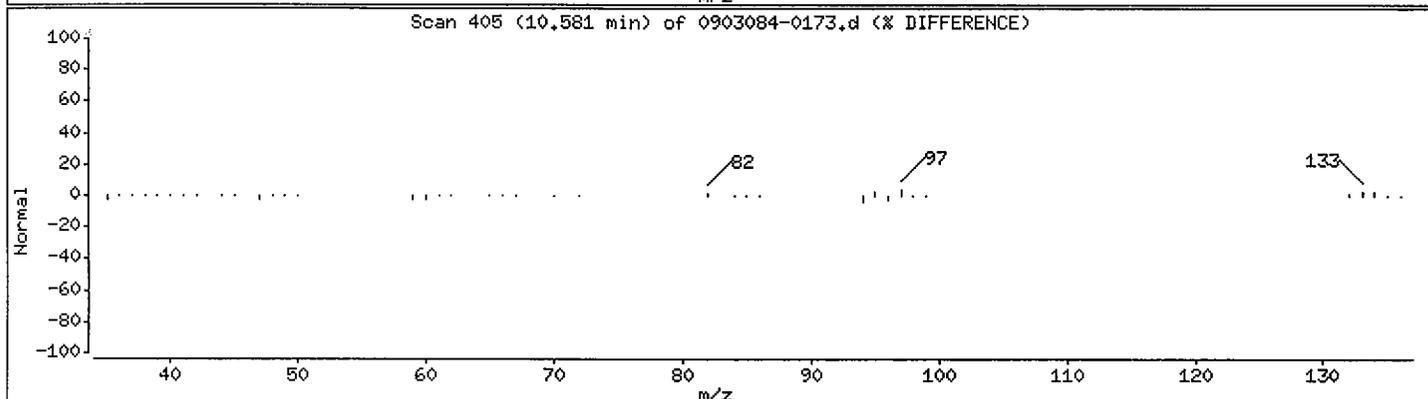
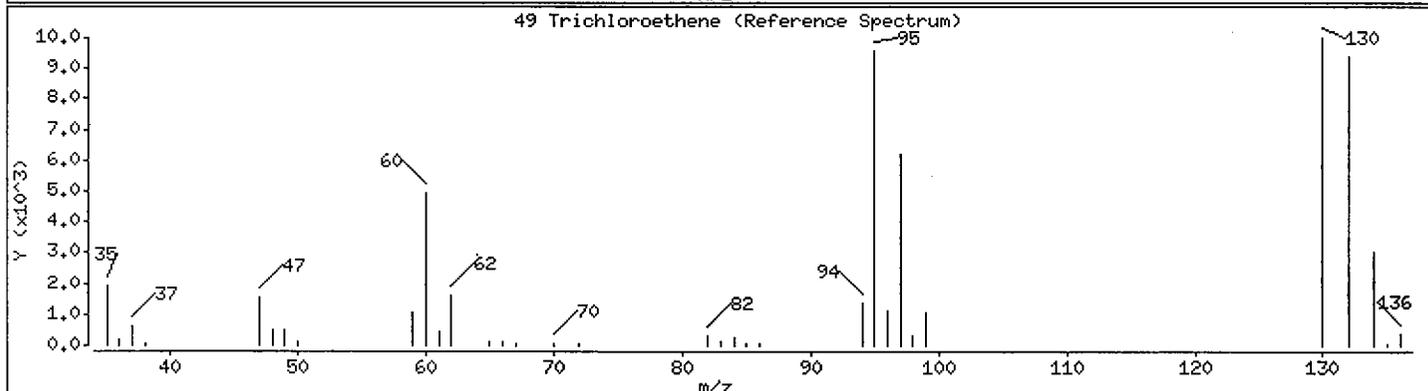
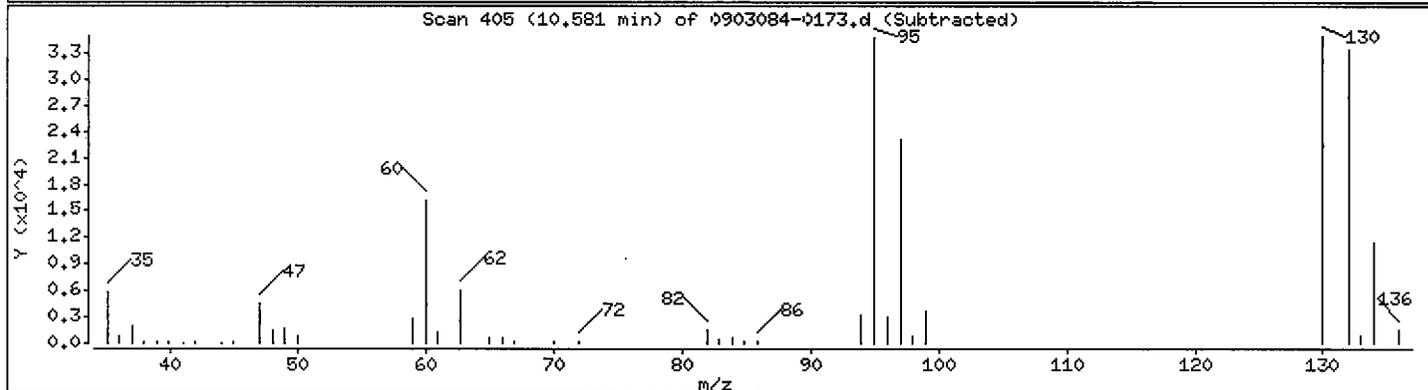
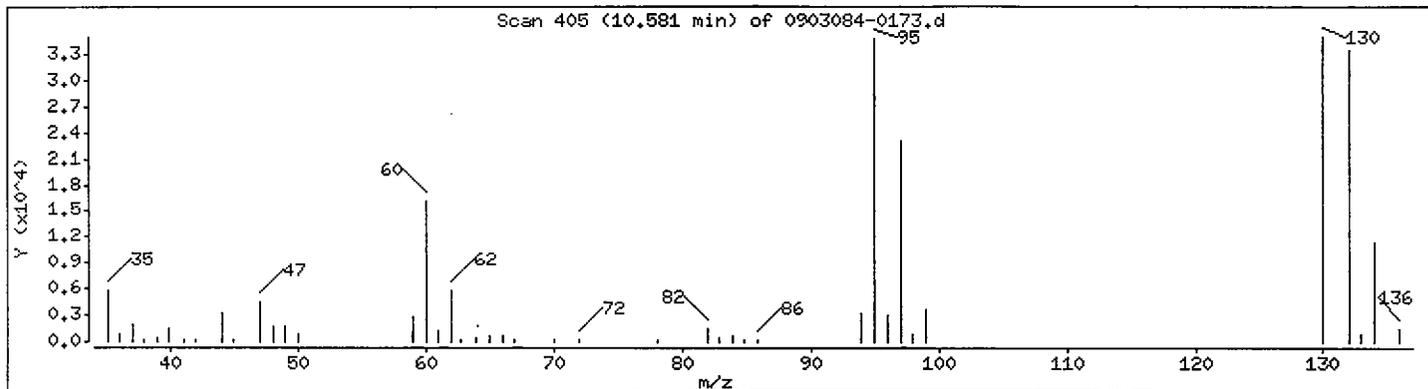
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

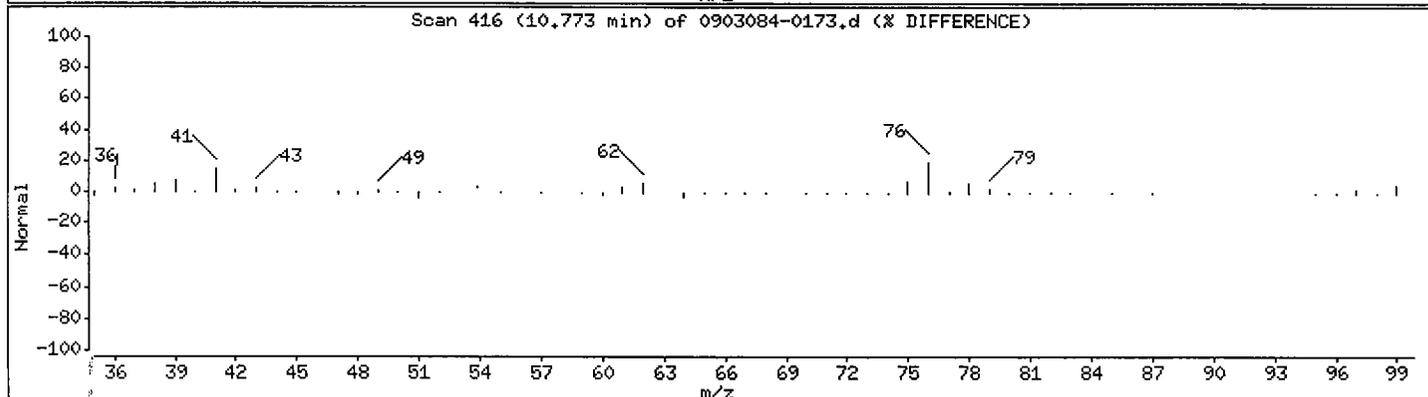
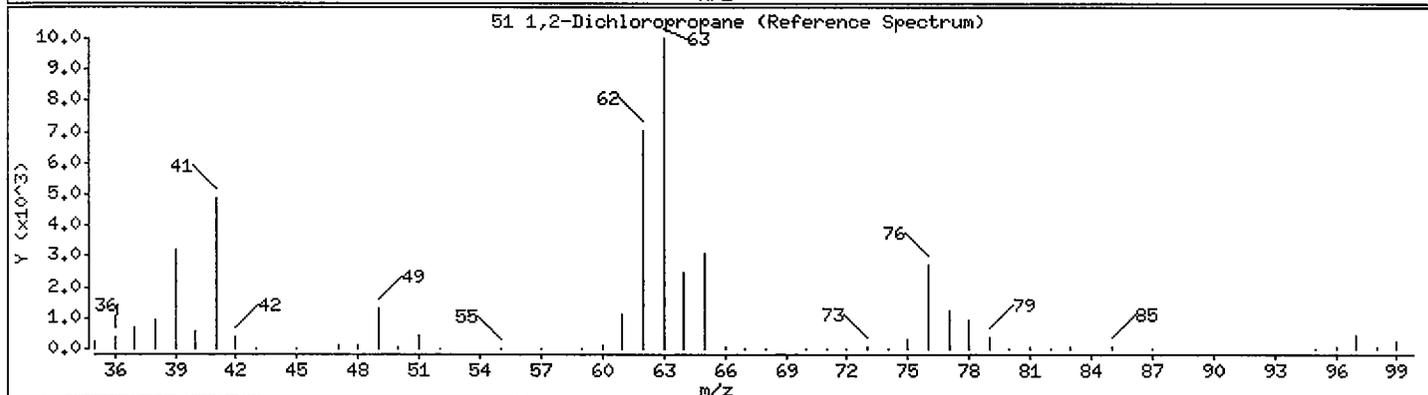
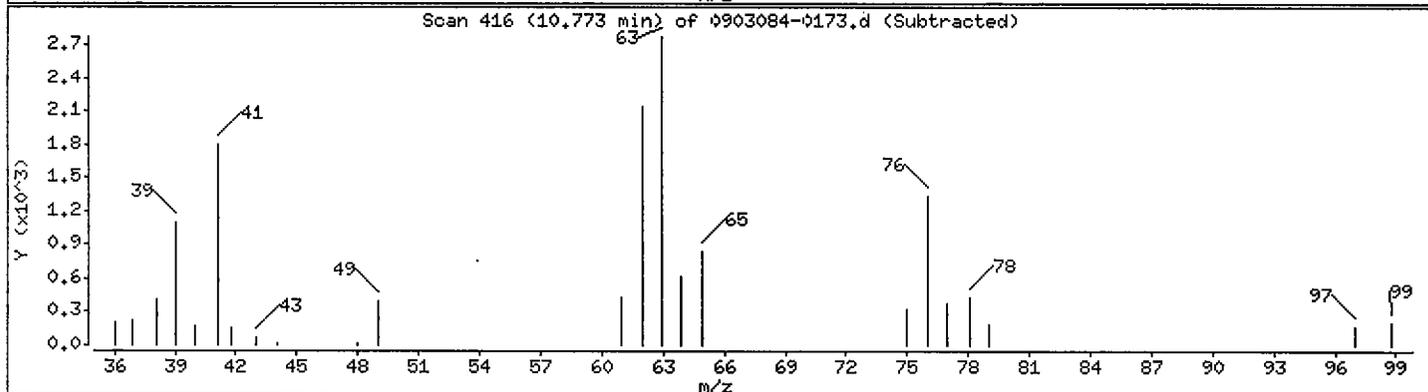
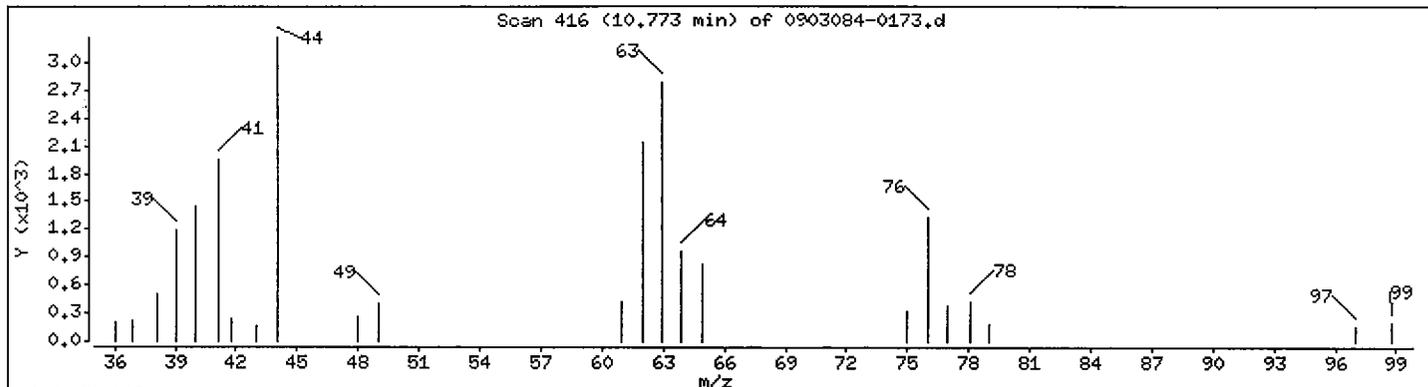
49 Trichloroethene

Concentration: 2.5 ug/L



51 1,2-Dichloropropane

Concentration: 0.26 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0173.d

Date : 19-MAR-2009 18:28

Client ID: MW-3

Instrument: 5972hp73.i

Sample Info: 0903084-01:JAO

Purge Volume: 25.0

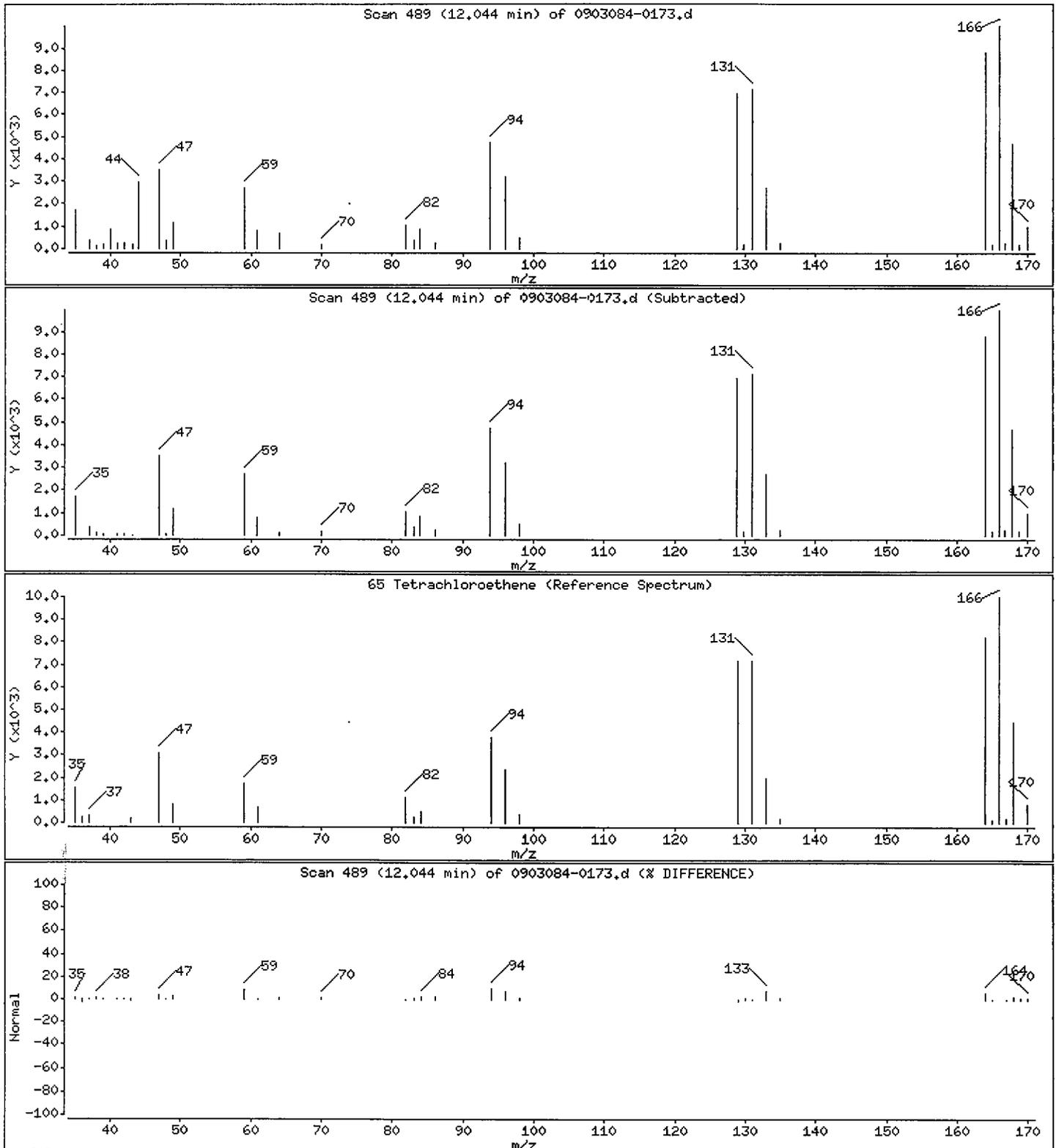
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 0.91 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

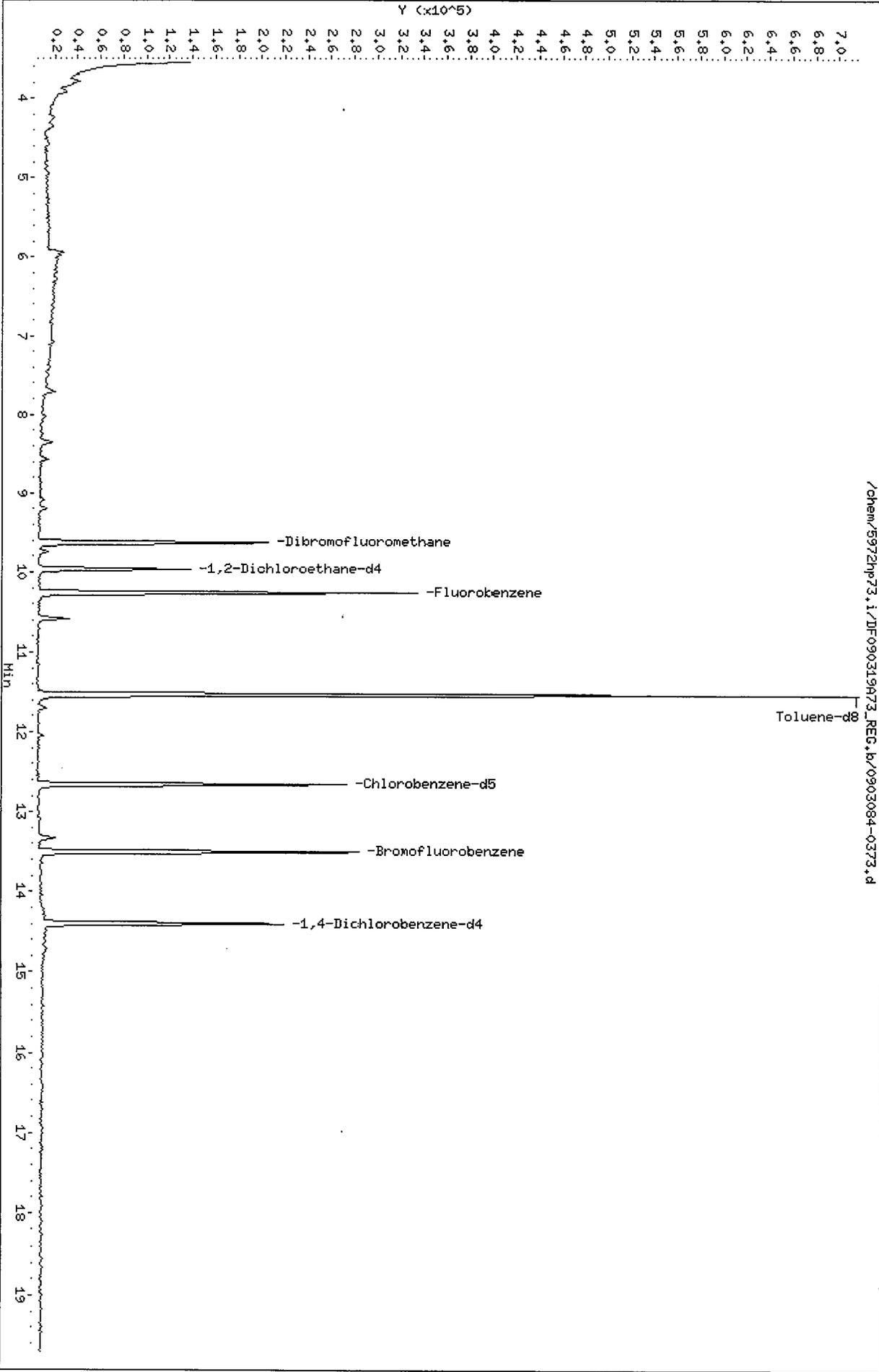
Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 0903084-03
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 0903084-0373
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.1/DF090319A73_REG.b/0903084-0373.d
Date: 19-MAR-2009 19:27
Client ID: MW-8
Sample Info: 0903084-03;JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT
 Data file : /chem/5972hp73.i/DF090319A73_REG.b/0903084-0373.d
 Lab Smp Id: 0903084-03 Client Smp ID: MW-8
 Inj Date : 19-MAR-2009 19:27
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 0903084-03:JAO
 Misc Info : MW-8
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:15 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.253 | 10.251 | (1.000) | 291766 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.655 | 12.654 | (1.000) | 179554 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.414 | 14.412 | (1.000) | 76452 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.626 | 9.624 | (0.939) | 143563 | 153.557 | 6.1 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.974 | 9.972 | (0.973) | 88088 | 139.899 | 5.6 |
| \$ 6 Toluene-d8 | 98 | | | 11.541 | 11.539 | (0.912) | 450256 | 148.302 | 5.9 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.491 | 13.489 | (0.936) | 123552 | 119.982 | 4.8 |
| 8 Dichlorodifluoromethane | 85 | | | Compound Not Detected. | | | | | |
| 9 Chloromethane | 50 | | | Compound Not Detected. | | | | | |
| 10 Vinyl Chloride | 62 | | | Compound Not Detected. | | | | | |
| 11 Bromomethane | 94 | | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | | Compound Not Detected. | | | | | |
| 13 Trichlorofluoromethane | 101 | | | Compound Not Detected. | | | | | |
| 14 Acrolein | 56 | | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | | Compound Not Detected. | | | | | |

| Compounds | QUANT MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|---------------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.084 | 7.064 | (0.691) | 6789 | 68.1647 | 2.7 |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | |
| 25 Methylene Chloride | 84 | 7.728 | 7.708 | (0.754) | 4375 | 4.97043 | 0.20 (a) |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.581 | 8.579 | (0.837) | 7827 | 4.70880 | 0.19 (a) |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | 9.208 | 9.189 | (0.898) | 4187 | 4.46213 | 0.18 (a) |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | |
| 40 Chloroform | 83 | Compound Not Detected. | | | | | |
| 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | |
| 47 Benzene | 78 | Compound Not Detected. | | | | | |
| 48 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | |
| 49 Trichloroethene | 130 | 10.583 | 10.581 | (1.032) | 8857 | 8.63259 | 0.35 (a) |
| 51 1,2-Dichloropropane | 63 | Compound Not Detected. | | | | | |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | |
| 65 Tetrachloroethene | 164 | Compound Not Detected. | | | | | |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | |
| 69 Chlorobenzene | 112 | Compound Not Detected. | | | | | |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|----|--------|--------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | | | | | | |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | | | | | | |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Date : 19-MAR-2009 19:27

Client ID: MW-8

Instrument: 5972hp73.i

Sample Info: 0903084-03:JAO

Purge Volume: 25.0

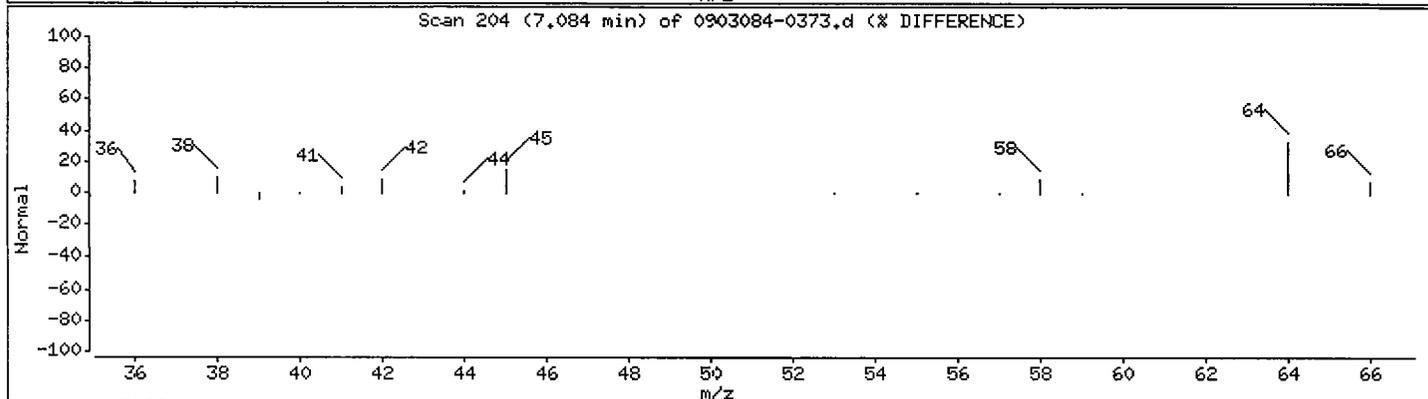
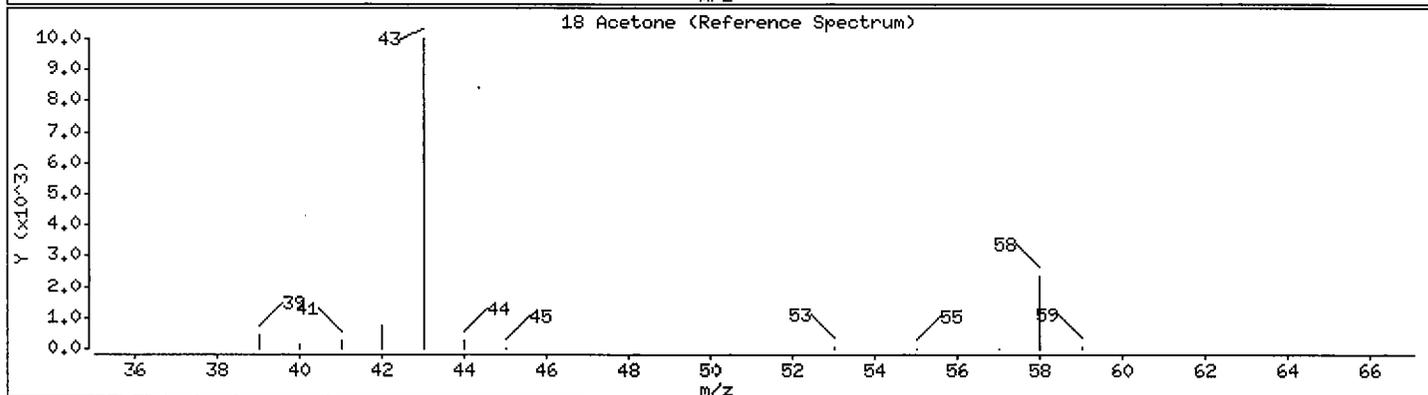
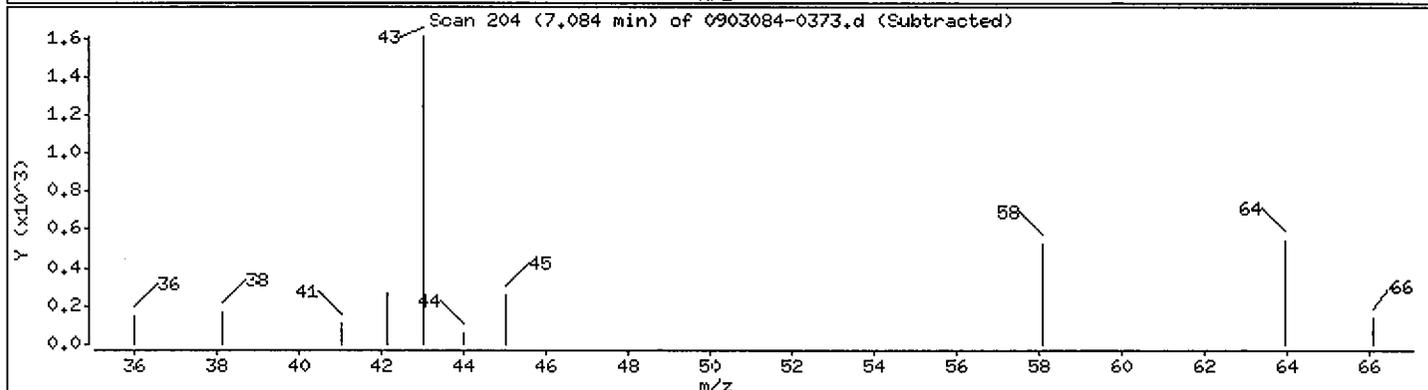
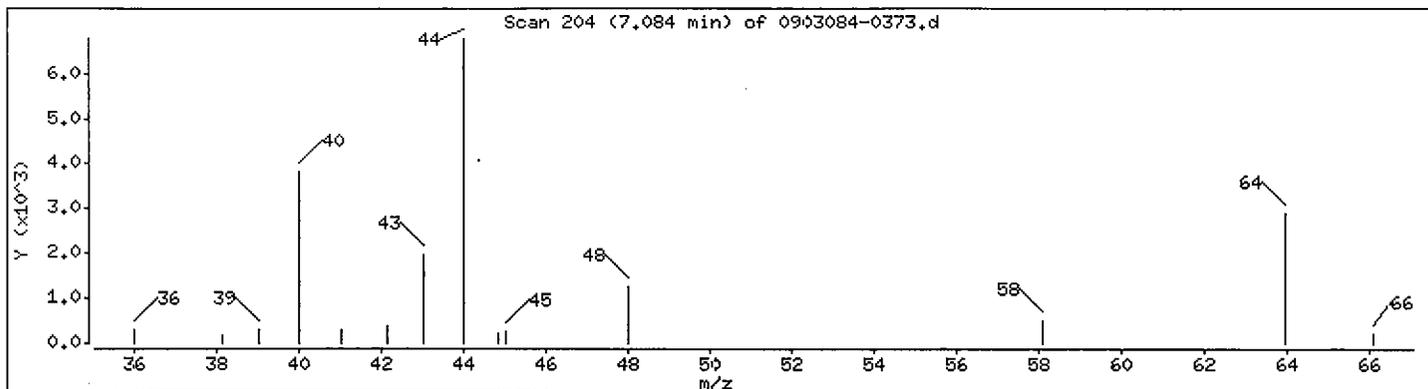
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 2.7 ug/L



Date : 19-MAR-2009 19:27

Client ID: MW-8

Instrument: 5972hp73.i

Sample Info: 0903084-03;JAO

Purge Volume: 25.0

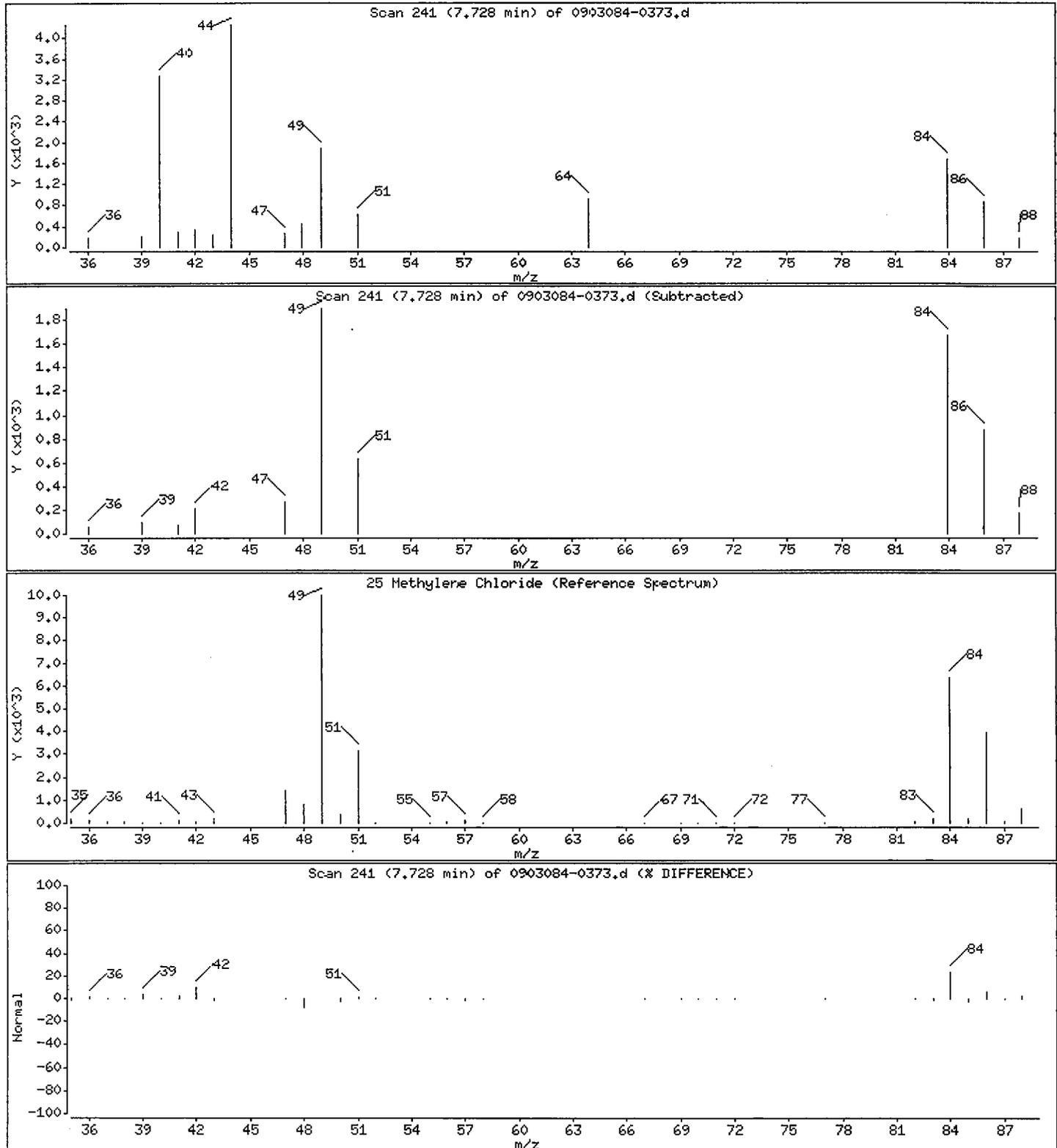
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

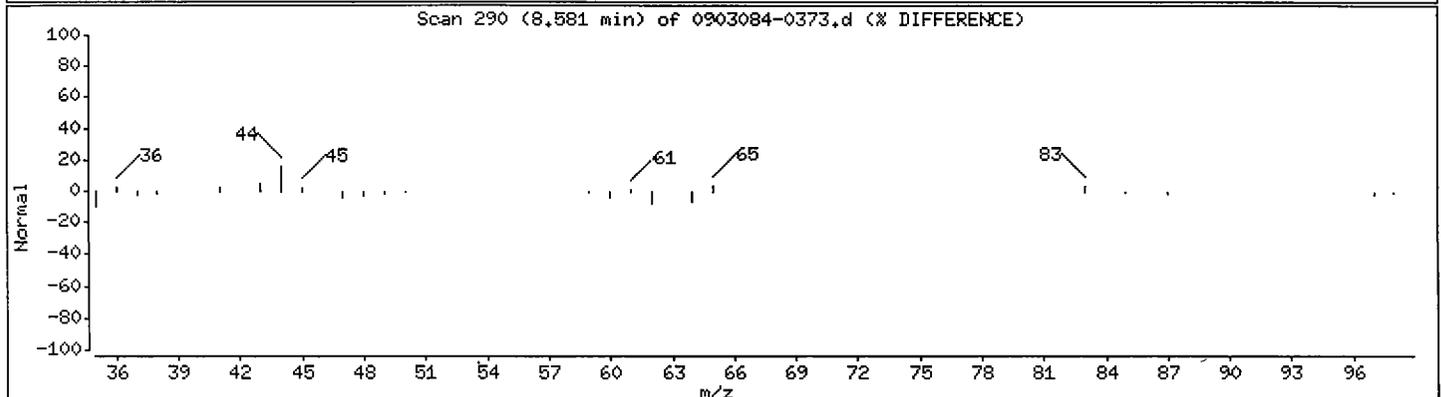
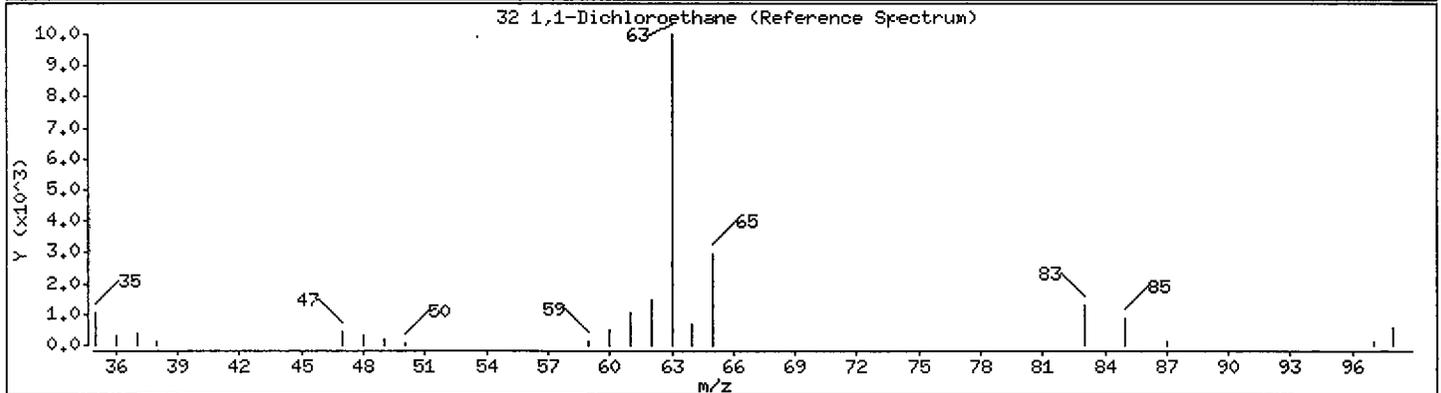
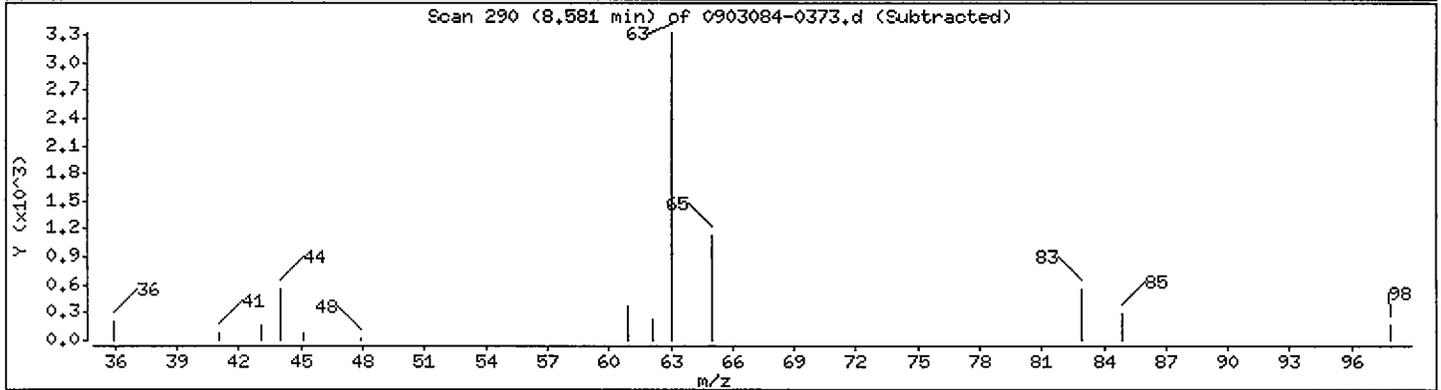
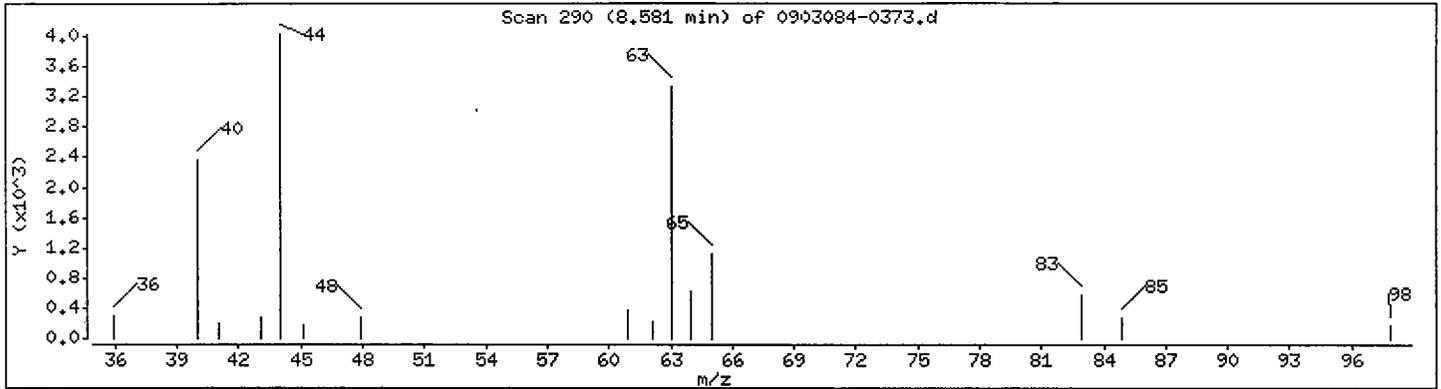
25 Methylene Chloride

Concentration: 0.20 ug/L



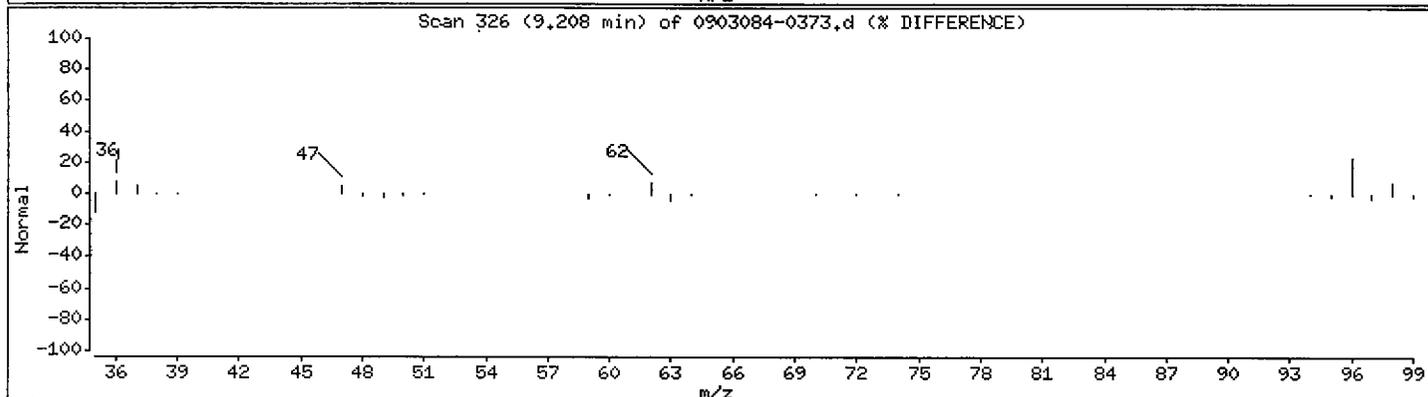
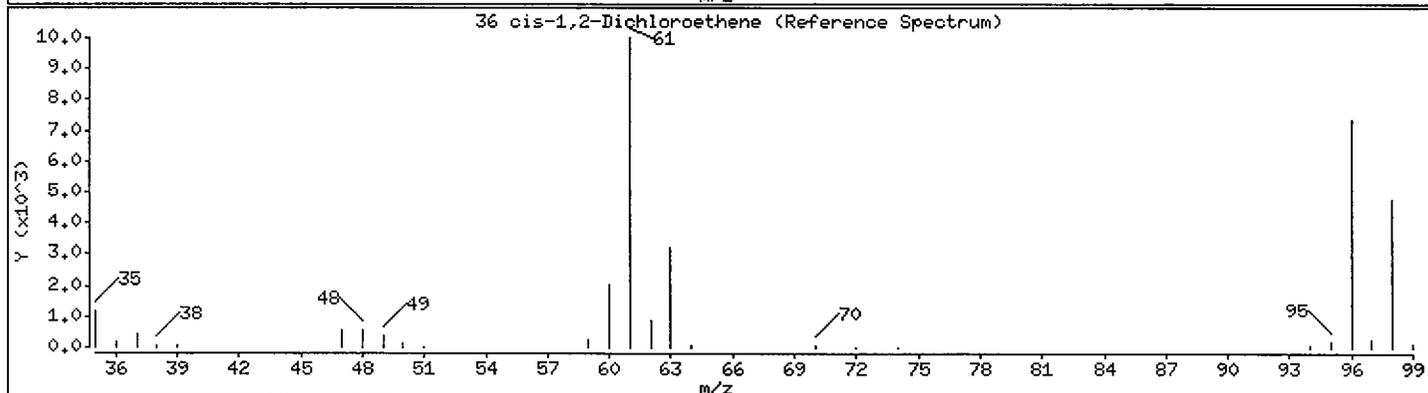
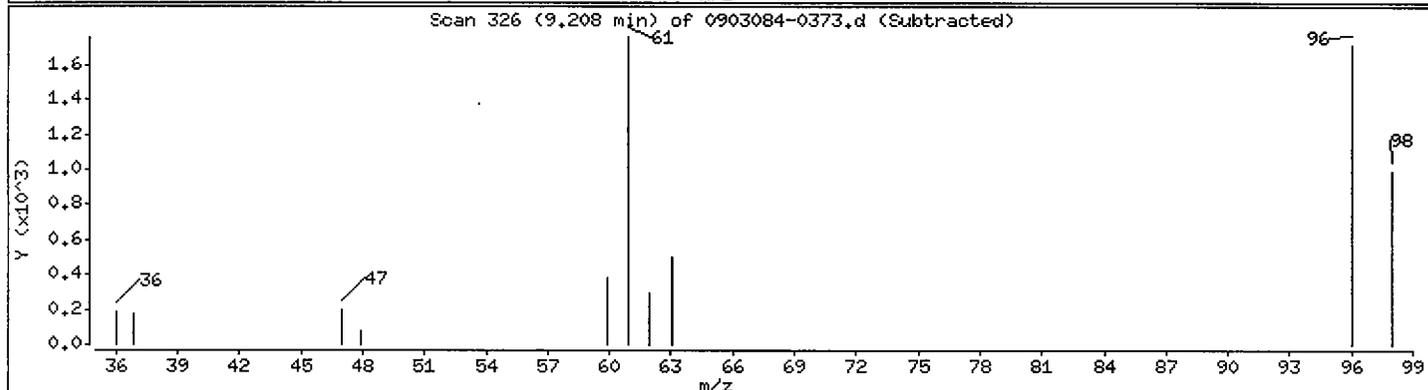
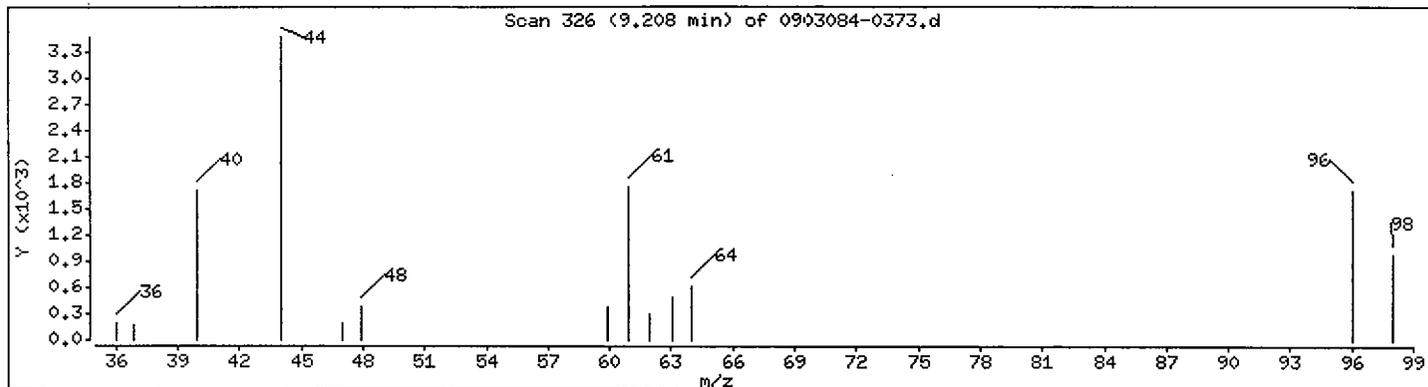
32 1,1-Dichloroethane

Concentration: 0.19 ug/L



36 cis-1,2-Dichloroethene

Concentration: 0.18 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0373.d

Date : 19-MAR-2009 19:27

Client ID: MW-8

Instrument: 5972hp73.i

Sample Info: 0903084-03;JAD

Purge Volume: 25.0

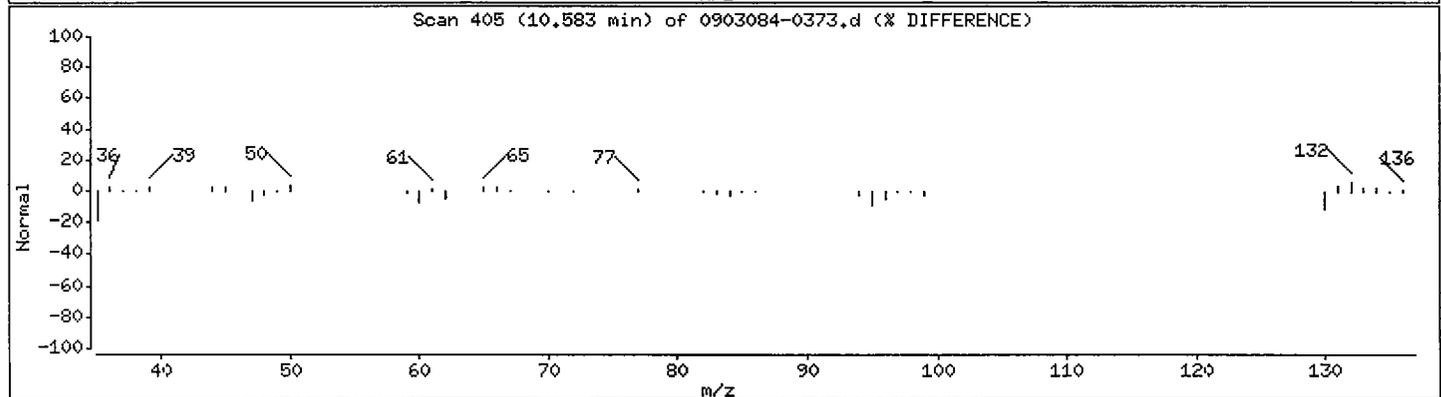
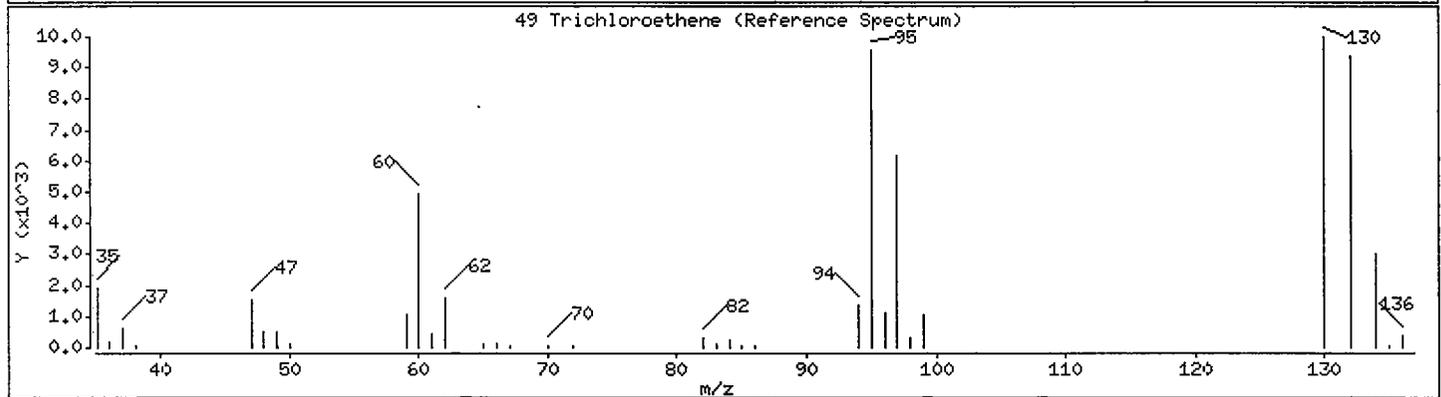
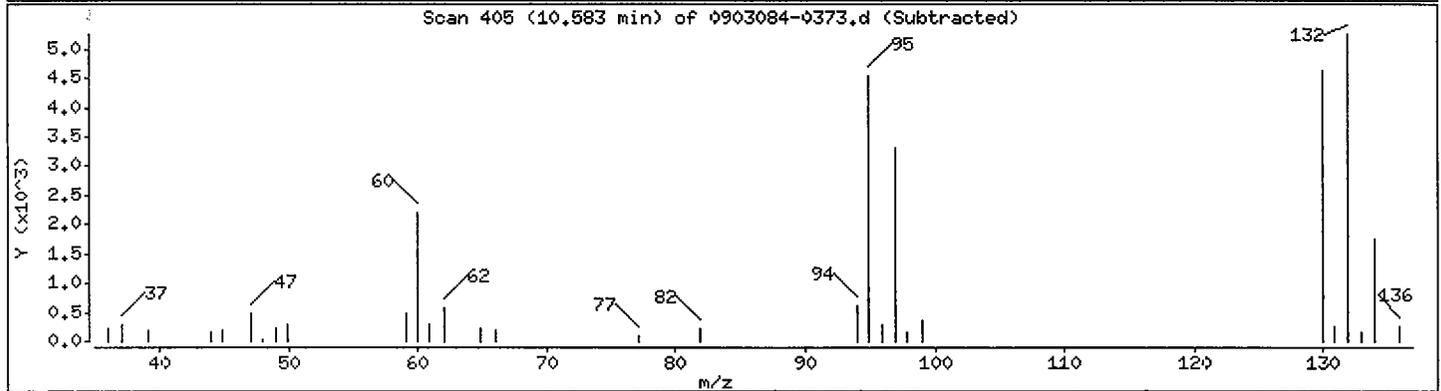
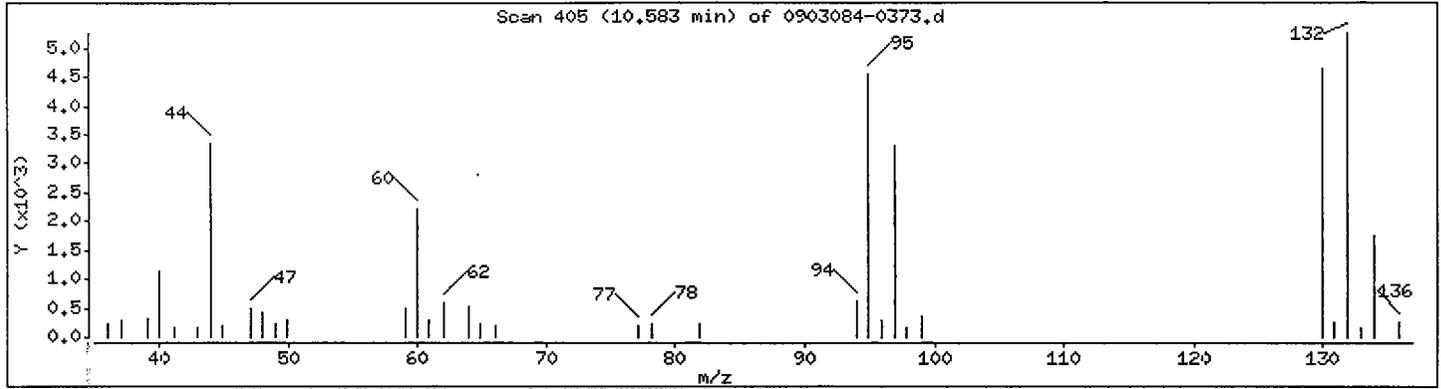
Operator: JAD

Column phase: SPB-624

Column diameter: 0.32

49 Trichloroethene

Concentration: 0.35 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-04

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0473

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | 0.43 | J |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 1.7 | |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 5.8 | |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.6 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.38 | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.32 | J |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 15 | |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 9.1 | |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 2.9 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 1.4 | |
| 78-87-5 | 1,2-Dichloropropane | 0.22 | J |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-04

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-0473

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

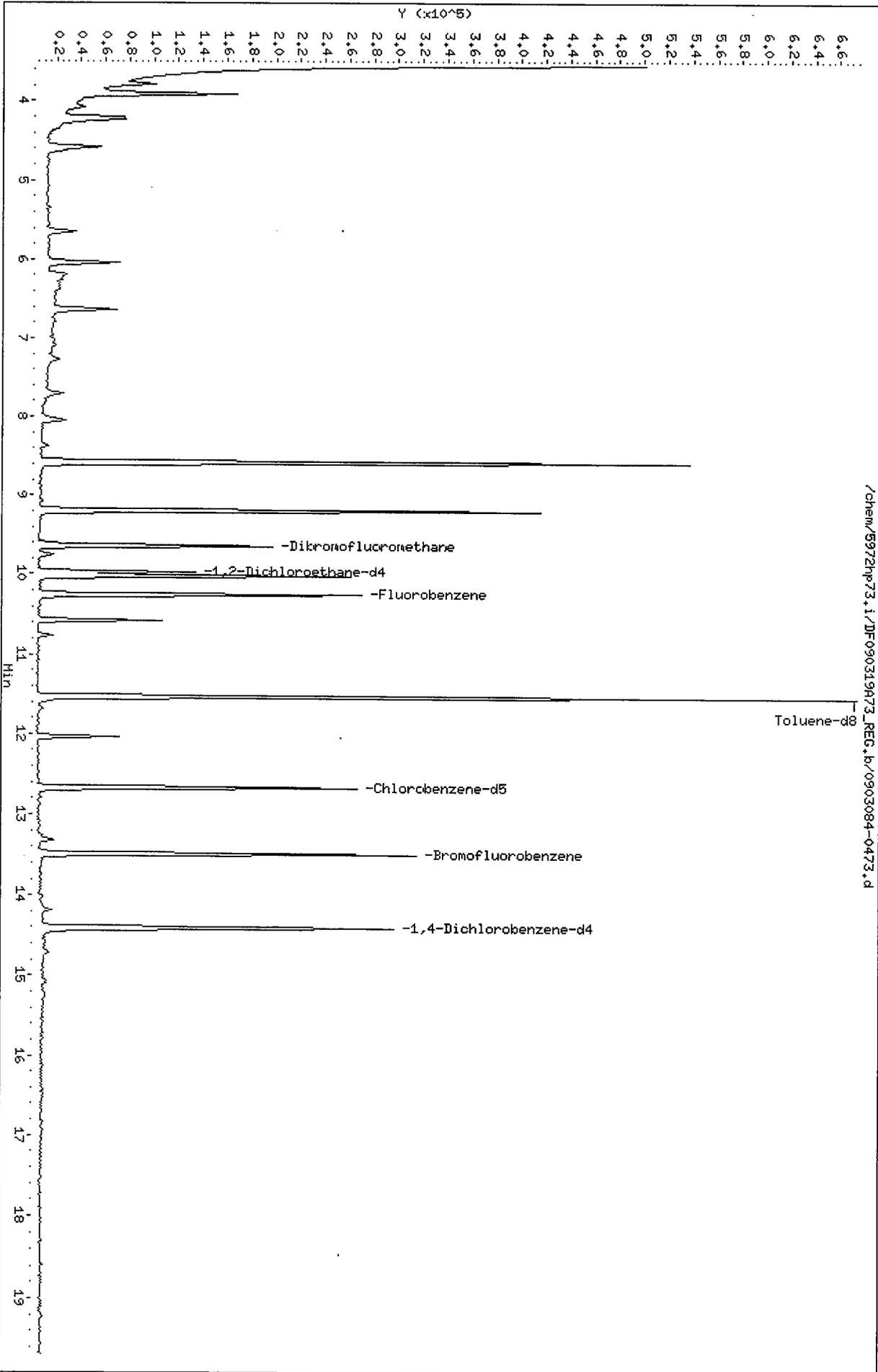
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.87 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.43 | J |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.4 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d
Date: 19-MAR-2009 19:57
Client ID: MM-9
Sample Info: 0903084-04:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d
 Lab Smp Id: 0903084-04 Client Smp ID: MW-9
 Inj Date : 19-MAR-2009 19:57
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 0903084-04:JAO
 Misc Info : MW-9
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:15 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | CONCENTRATIONS | | | | | |
|----------------------------|-------|-----|------------------------|--------|---------|--------|----------|-----------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL ( ug/L) |
| * 1 Fluorobenzene | 96 | | 10.249 | 10.251 | (1.000) | 263153 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.670 | 12.654 | (1.000) | 171547 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.411 | 14.412 | (1.000) | 80593 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.640 | 9.624 | (0.941) | 130718 | 155.021 | 6.2 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.971 | 9.972 | (0.973) | 80885 | 142.427 | 5.7 |
| \$ 6 Toluene-d8 | 98 | | 11.538 | 11.539 | (0.911) | 410161 | 141.402 | 5.7 |
| \$ 7 Bromofluorobenzene | 95 | | 13.505 | 13.489 | (0.937) | 119737 | 110.303 | 4.4 |
| 8 Dichlorodifluoromethane | 85 | | 3.876 | 3.878 | (0.378) | 16423 | 10.6586 | 0.43 (a) |
| 9 Chloromethane | 50 | | Compound Not Detected. | | | | | |
| 10 Vinyl Chloride | 62 | | 4.625 | 4.627 | (0.451) | 17480 | 41.2696 | 1.7 |
| 11 Bromomethane | 94 | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | 5.635 | 5.636 | (0.550) | 24390 | 144.730 | 5.8 |
| 13 Trichlorofluoromethane | 101 | | Compound Not Detected. | | | | | |
| 14 Acrolein | 56 | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | Compound Not Detected. | | | | | |

Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d
 Report Date: 20-Mar-2009 18:23

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-------------------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 18 Acetone | 43 | 7.080 | 7.064 | (0.691) | 5861 | 65.2457 | 2.6 |
| 19 Iodomethane | 142 | Compound Not Detected. | | | | | |
| 20 Carbon disulfide | 76 | Compound Not Detected. | | | | | |
| 22 3-Chloropropene | 39 | Compound Not Detected. | | | | | |
| 23 Acetonitrile | 41 | Compound Not Detected. | | | | | |
| 25 Methylene Chloride | 84 | 7.707 | 7.708 | (0.752) | 7507 | 9.45602 | 0.38 (a) |
| 26 Acrylonitrile | 53 | Compound Not Detected. | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | 8.073 | 8.057 | (0.788) | 7260 | 8.03680 | 0.32 (a) |
| 31 Vinyl acetate | 43 | Compound Not Detected. | | | | | |
| 32 1,1-Dichloroethane | 63 | 8.578 | 8.579 | (0.837) | 544858 | 363.433 | 15 |
| 33 Chloroprene | 53 | Compound Not Detected. | | | | | |
| 34 2-butanone | 43 | Compound Not Detected. | | | | | |
| 35 2,2-Dichloropropane | 77 | Compound Not Detected. | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | 9.205 | 9.189 | (0.898) | 193433 | 228.558 | 9.1 |
| 37 Propionitrile | 54 | Compound Not Detected. | | | | | |
| 38 Methacrylonitrile | 41 | Compound Not Detected. | | | | | |
| 39 Bromochloromethane | 128 | Compound Not Detected. | | | | | |
| 40 Chloroform | 83 | Compound Not Detected. | | | | | |
| 42 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 44 1,1-dichloropropene | 75 | Compound Not Detected. | | | | | |
| 45 Isobutyl alcohol | 43 | Compound Not Detected. | | | | | |
| 46 Carbon Tetrachloride | 117 | Compound Not Detected. | | | | | |
| 47 Benzene | 78 | 10.023 | 10.024 | (0.978) | 223427 | 73.6230 | 2.9 |
| 48 1,2-Dichloroethane | 62 | Compound Not Detected. | | | | | |
| 49 Trichloroethene | 130 | 10.580 | 10.581 | (1.032) | 31776 | 34.3384 | 1.4 |
| 51 1,2-Dichloropropane | 63 | 10.772 | 10.773 | (1.051) | 3767 | 5.55111 | 0.22 (a) |
| 52 Methylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 54 Dibromomethane | 174 | Compound Not Detected. | | | | | |
| 55 Bromodichloromethane | 83 | Compound Not Detected. | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 58 4-Methyl-2-pentanone | 43 | Compound Not Detected. | | | | | |
| 59 Toluene | 92 | Compound Not Detected. | | | | | |
| 60 Ethylmethacrylate | 69 | Compound Not Detected. | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | Compound Not Detected. | | | | | |
| 62 1,1,2-Trichloroethane | 97 | Compound Not Detected. | | | | | |
| 63 2-hexanone | 43 | Compound Not Detected. | | | | | |
| 64 1,3-Dichloropropane | 76 | Compound Not Detected. | | | | | |
| 65 Tetrachloroethene | 164 | 12.043 | 12.044 | (0.951) | 15566 | 21.8541 | 0.87 |
| 66 Dibromochloromethane | 129 | Compound Not Detected. | | | | | |
| 69 Chlorobenzene | 112 | 12.687 | 12.688 | (1.001) | 20439 | 10.8394 | 0.43 (a) |
| 70 Ethylbenzene | 106 | Compound Not Detected. | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | Compound Not Detected. | | | | | |
| 72 m,p-Xylene | 106 | Compound Not Detected. | | | | | |
| 73 o-Xylene | 106 | Compound Not Detected. | | | | | |
| 74 Styrene | 104 | Compound Not Detected. | | | | | |
| 75 Bromoform | 173 | Compound Not Detected. | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | Compound Not Detected. | | | | | |

| Compounds | QUANT MASS | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|---------------|-----|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | | 14.428 | 14.430 | (1.001) | 53052 | 34.1067 | 1.4 |
| 93 1,2-Dichlorobenzene | 146 | | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | | |
| 97 Naphthalene | 128 | | | | | | | |
| M 100 Xylene (total) | 106 | | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date : 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04:JAO

Purge Volume: 25.0

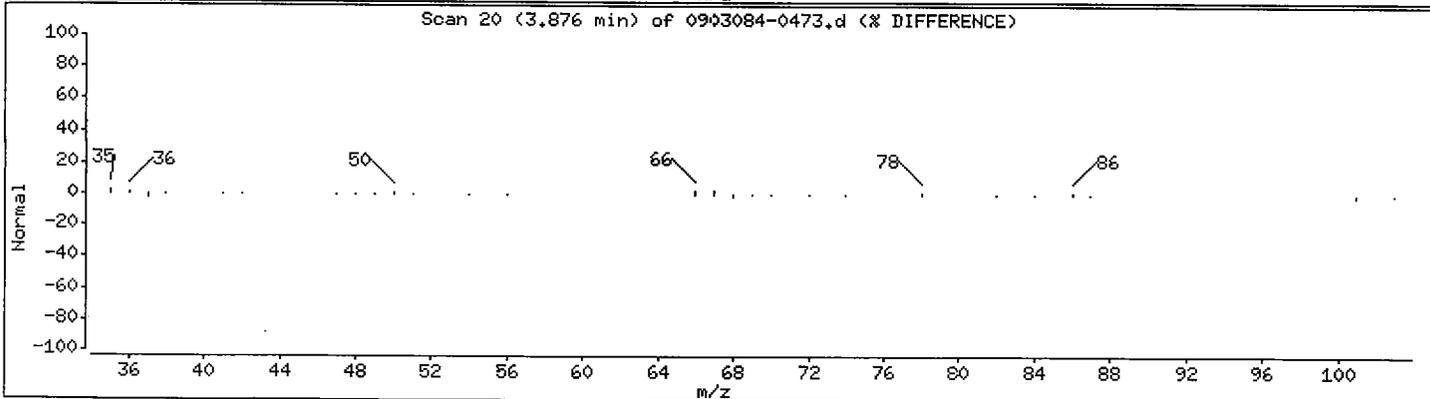
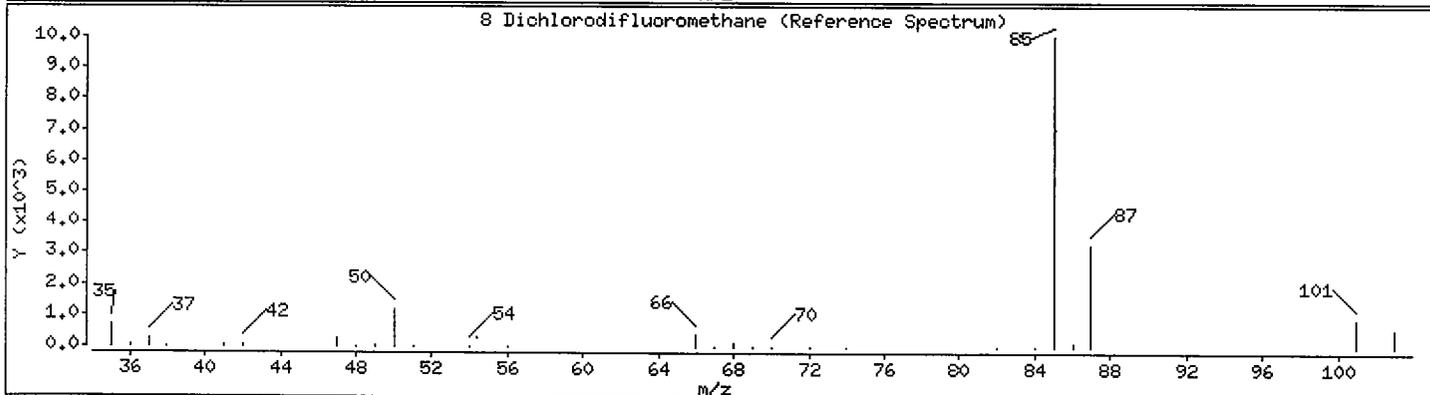
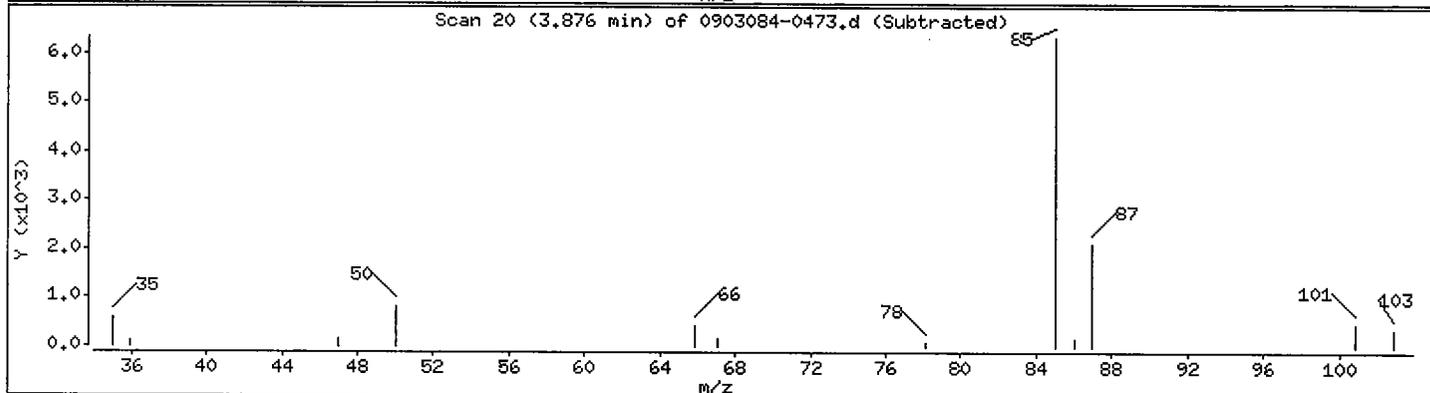
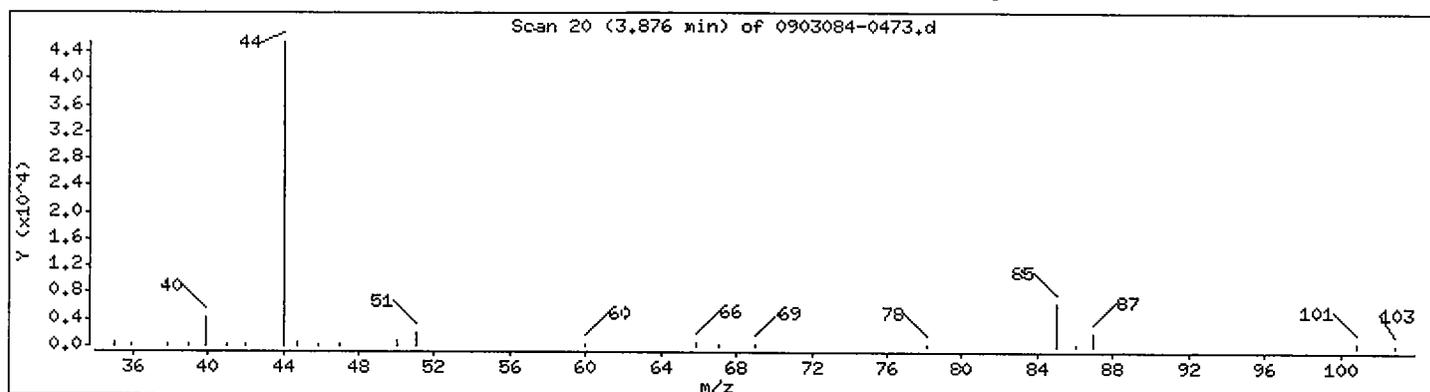
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

8 Dichlorodifluoromethane

Concentration: 0.43 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAD

Purge Volume: 25.0

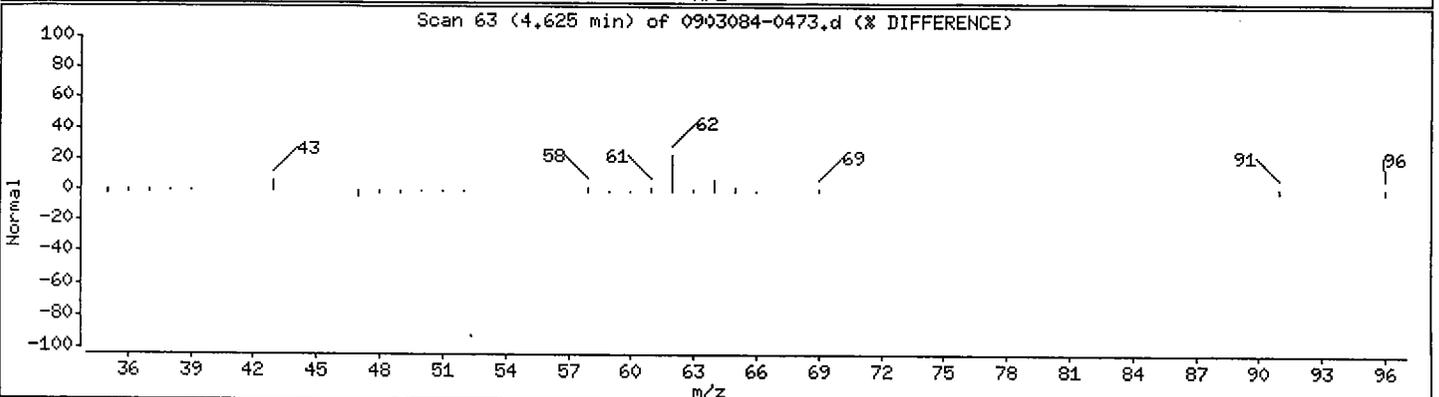
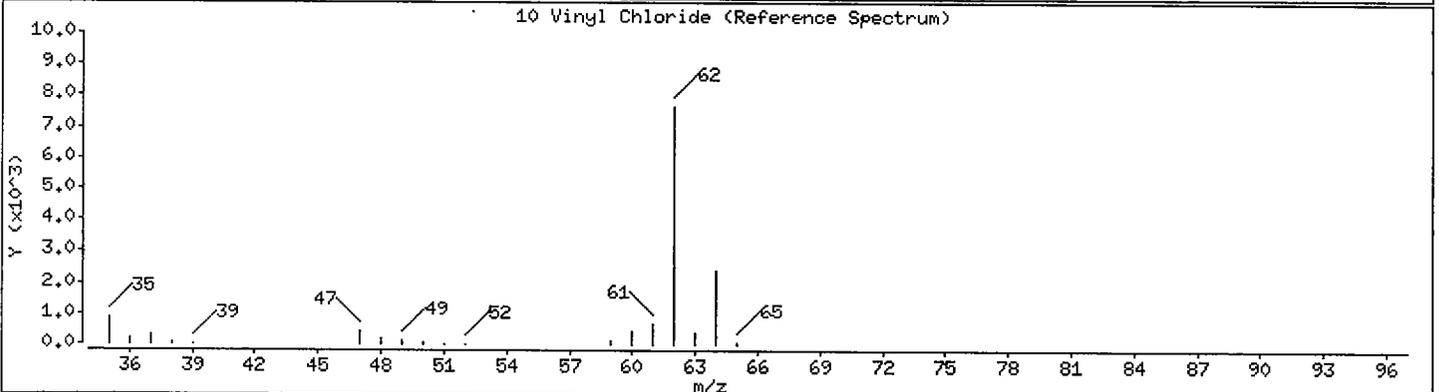
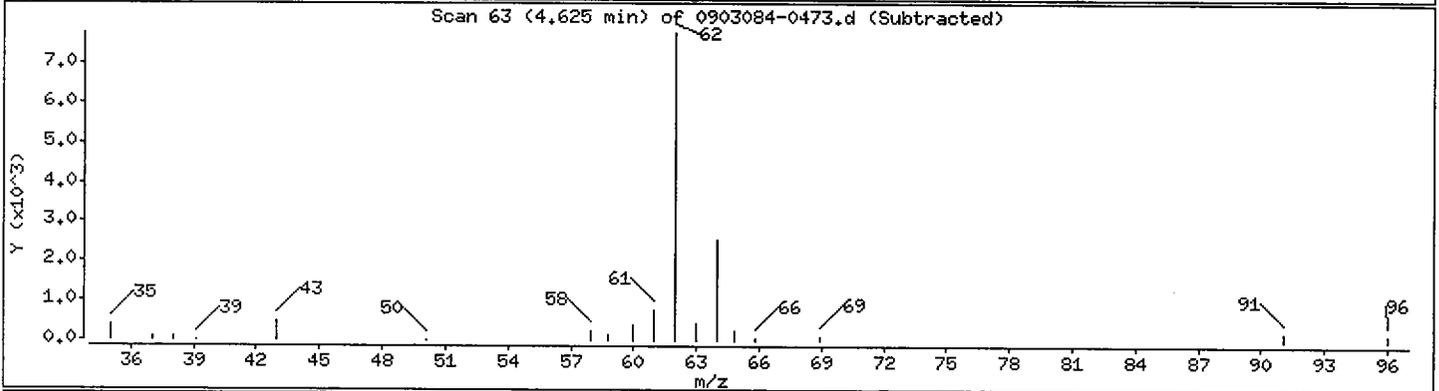
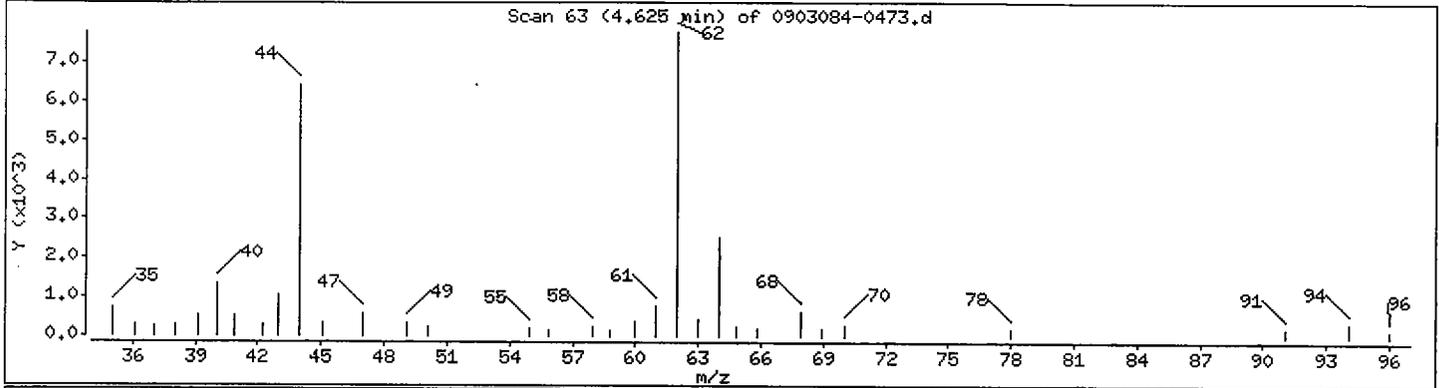
Operator: JAD

Column phase: SPB-624

Column diameter: 0.32

10 Vinyl Chloride

Concentration: 1.7 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04:JAO

Purge Volume: 25.0

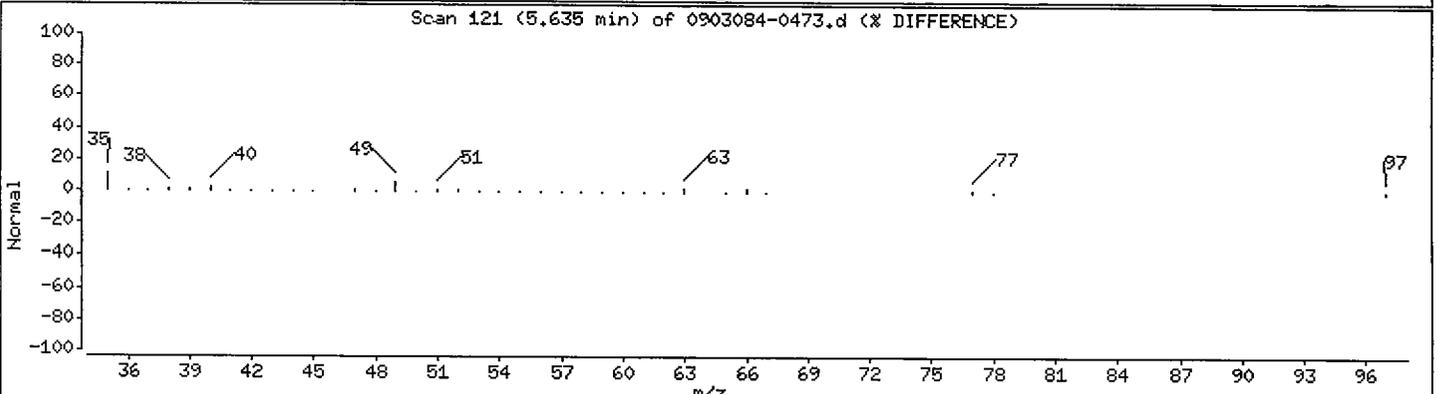
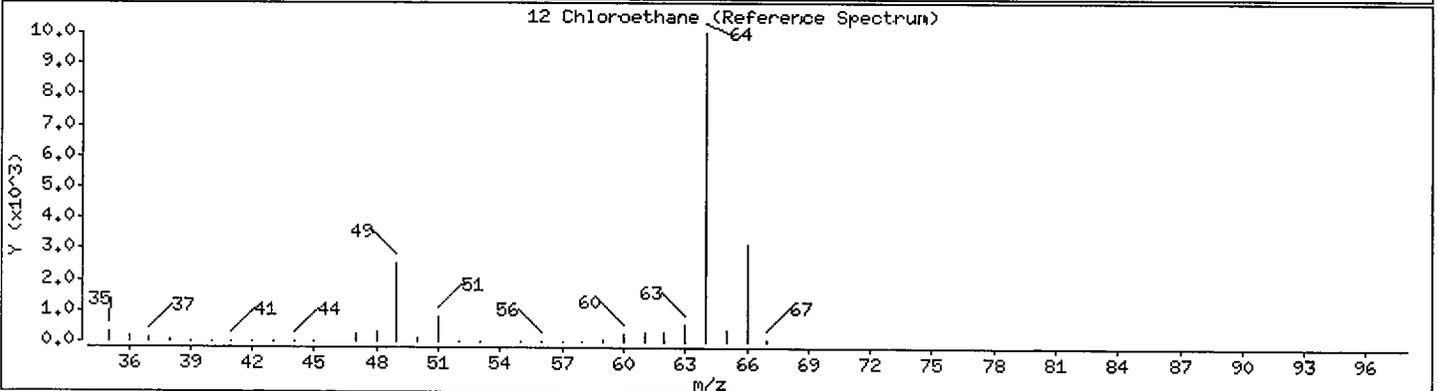
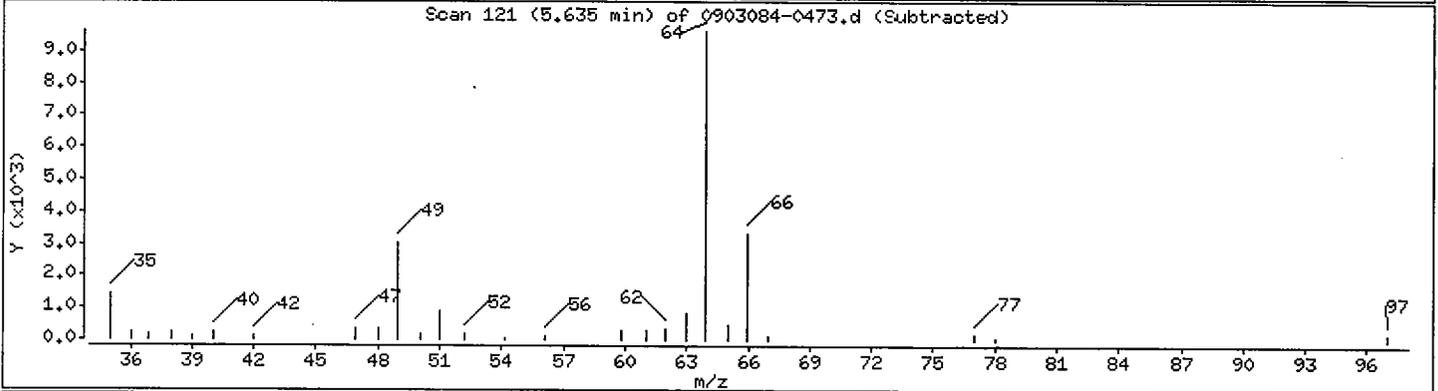
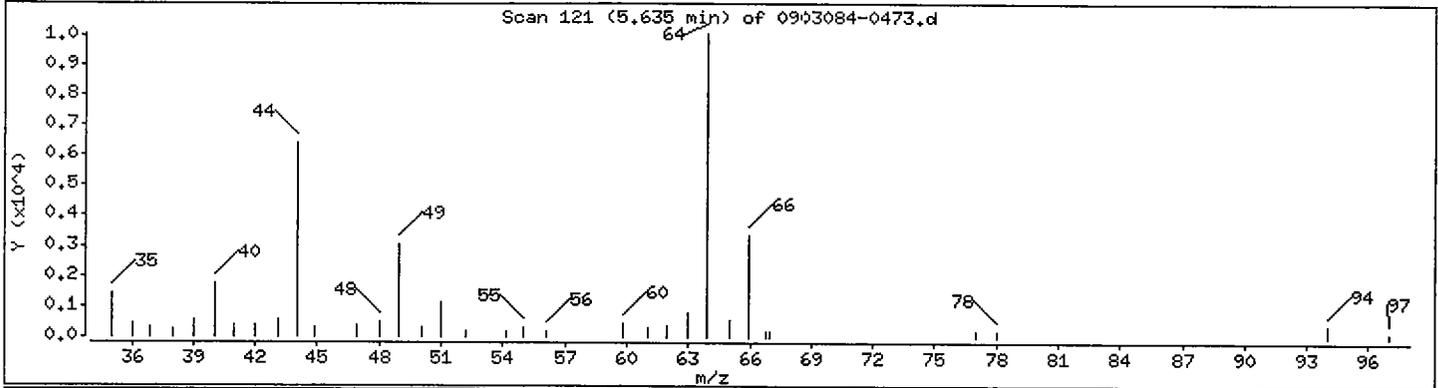
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

12 Chloroethane

Concentration: 5.8 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAO

Purge Volume: 25.0

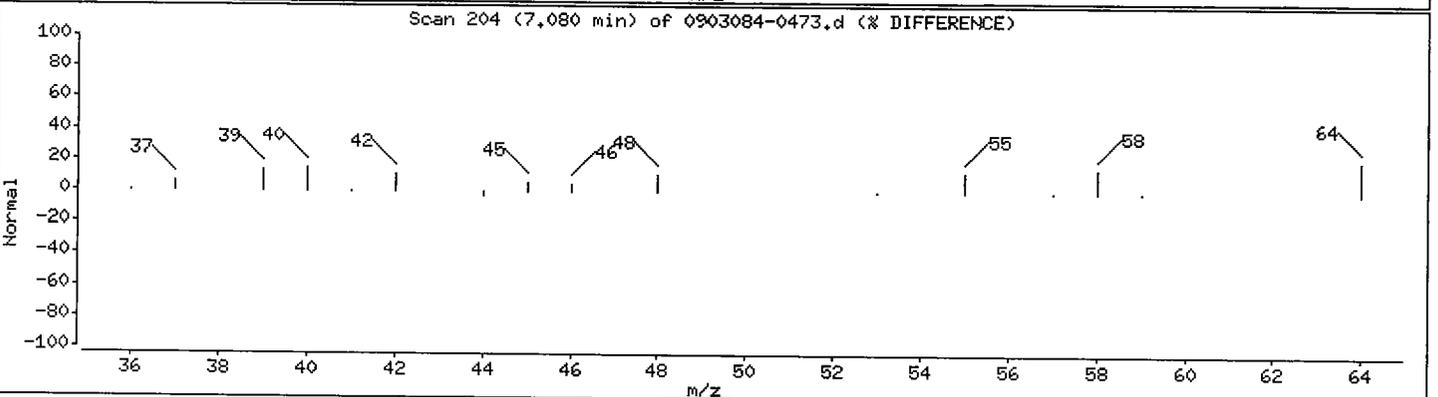
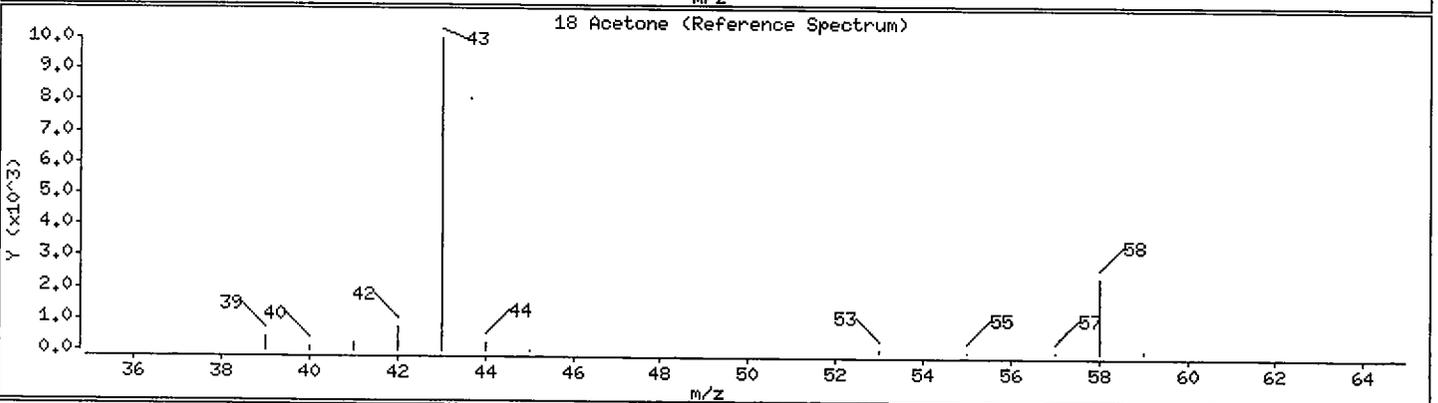
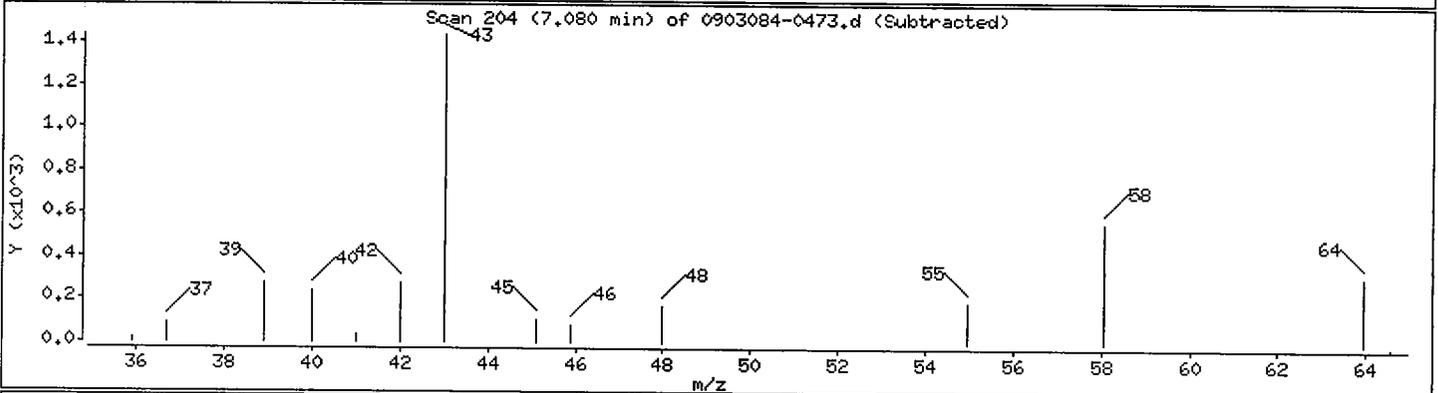
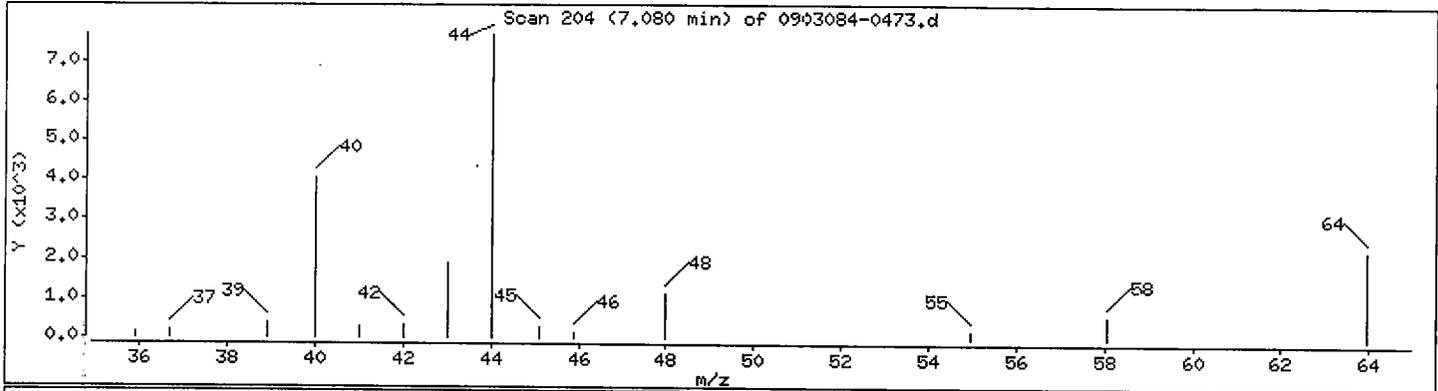
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 2.6 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAO

Purge Volume: 25.0

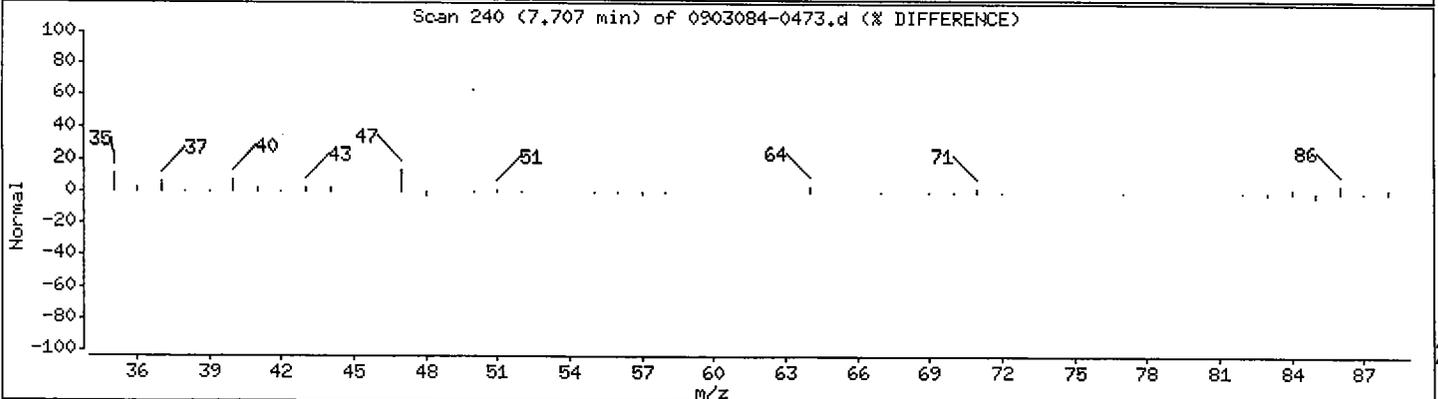
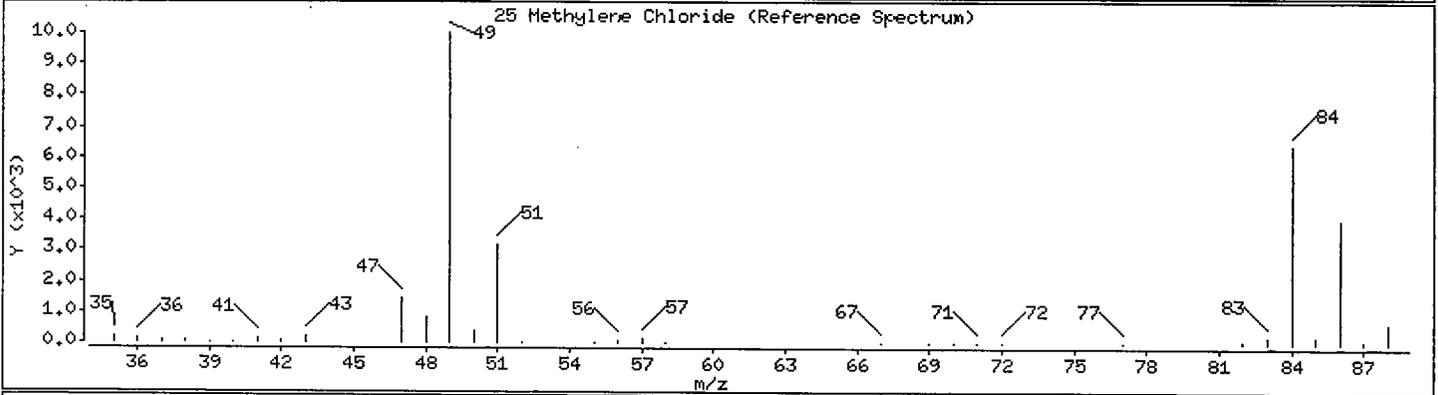
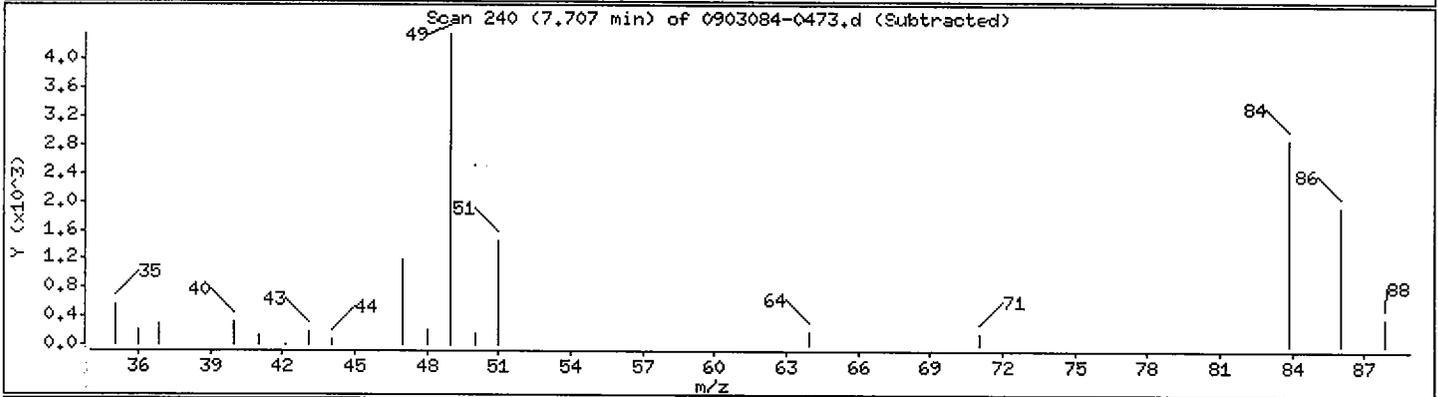
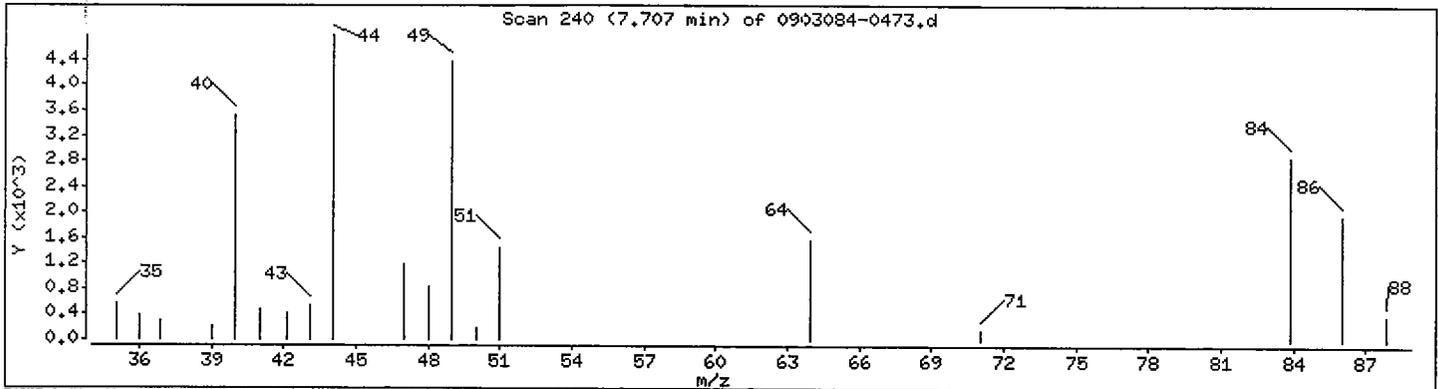
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.38 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0473.d

Date : 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAO

Purge Volume: 25.0

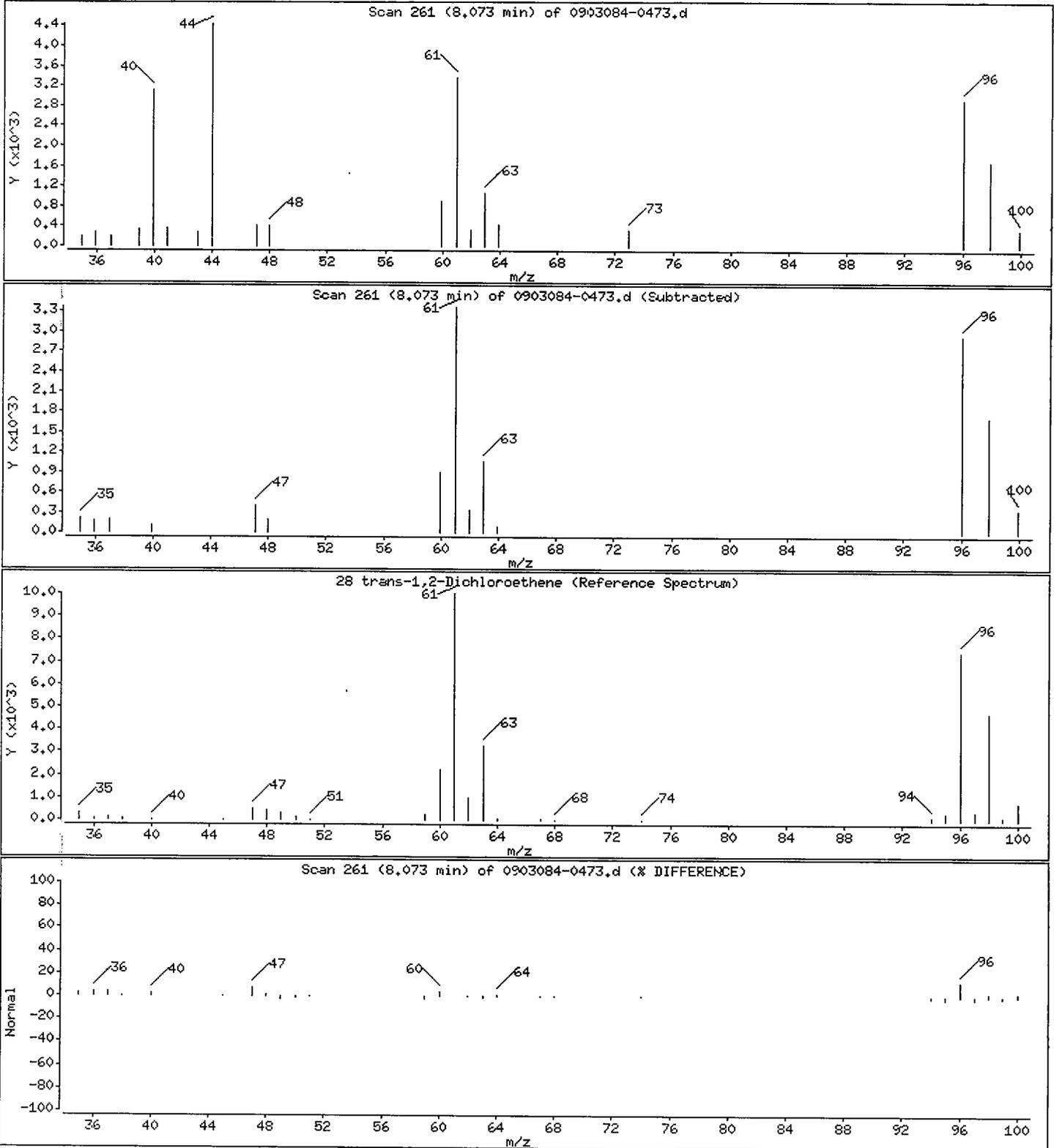
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

28 trans-1,2-Dichloroethene

Concentration: 0.32 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date : 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04:JAO

Purge Volume: 25.0

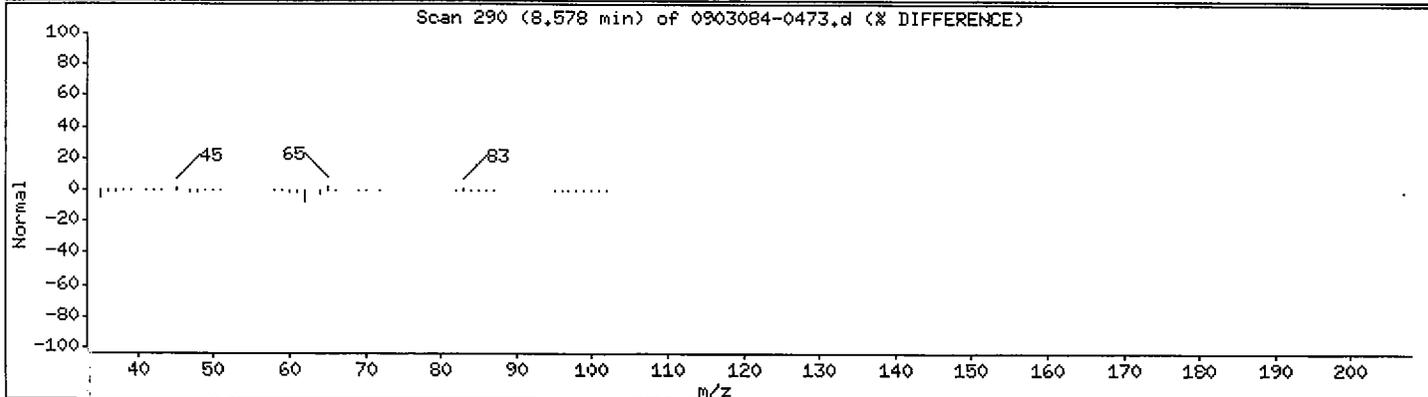
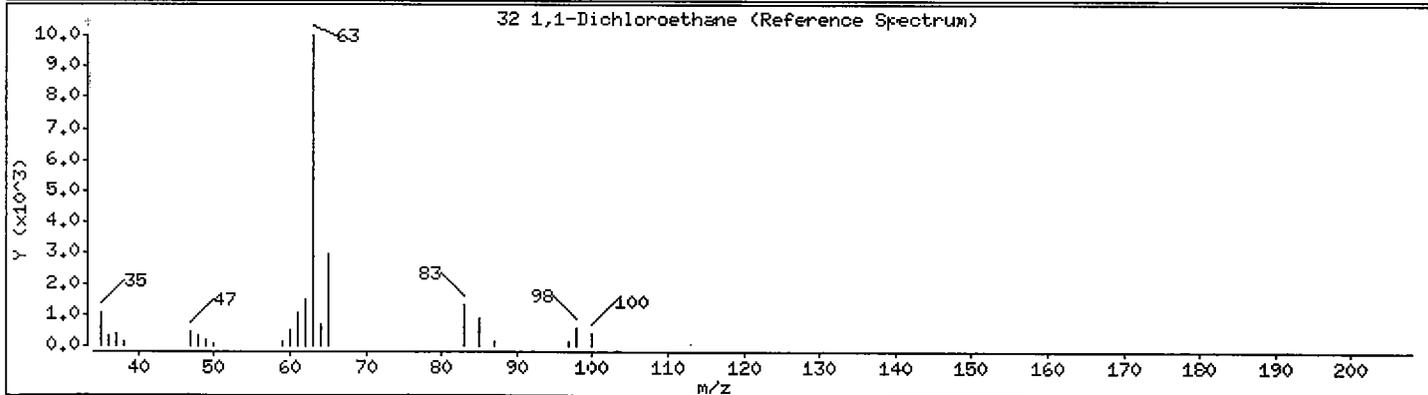
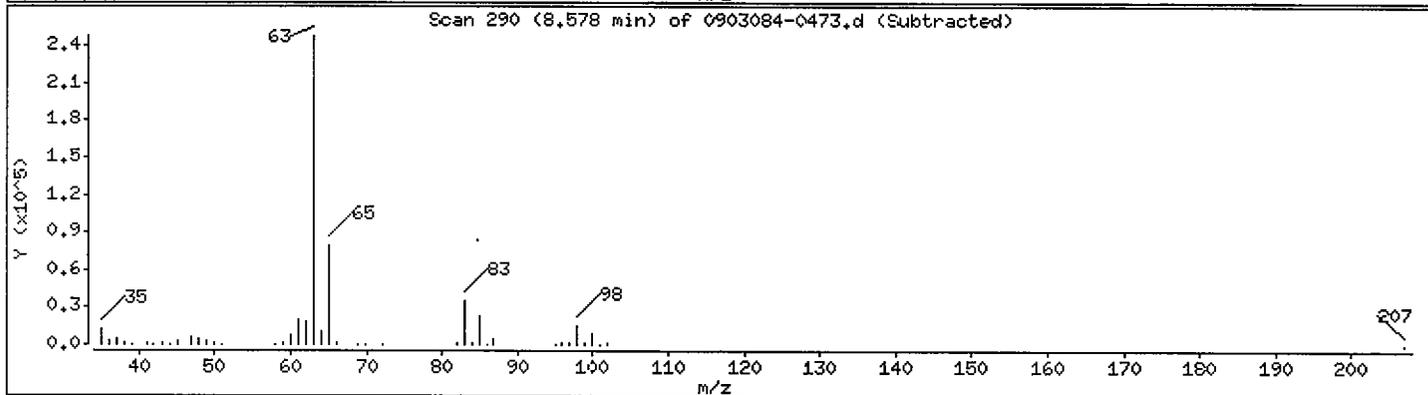
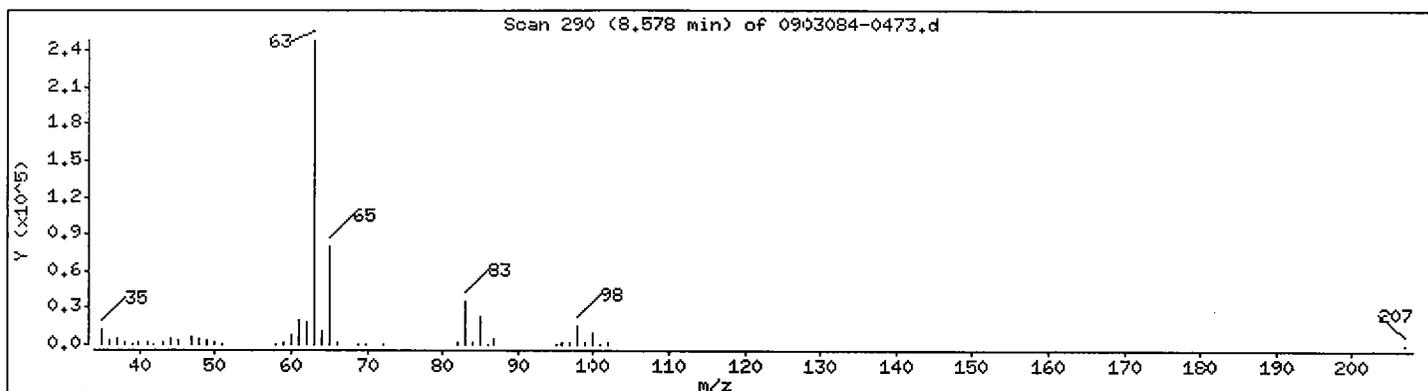
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

32 1,1-Dichloroethane

Concentration: 15 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAD

Purge Volume: 25.0

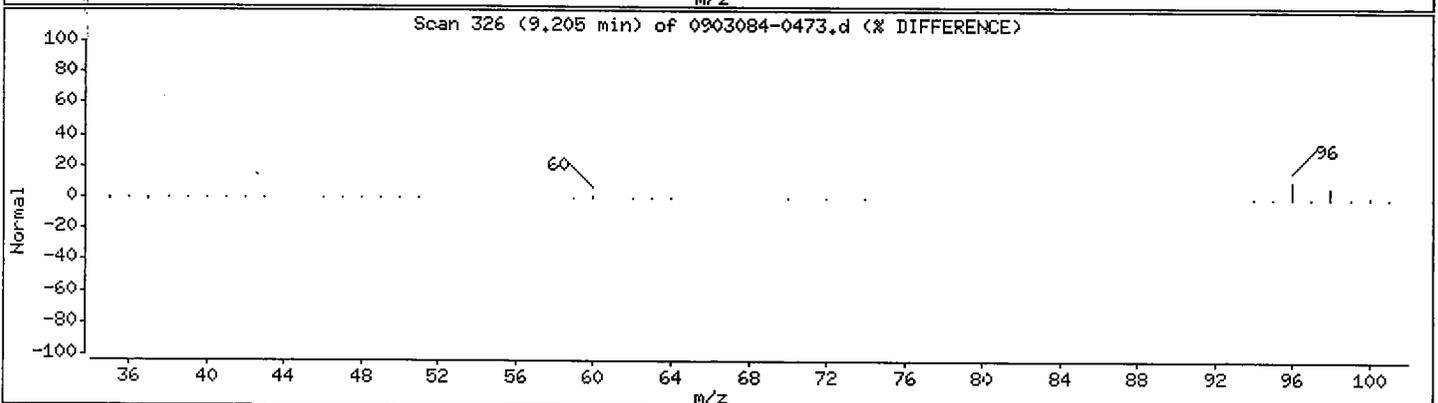
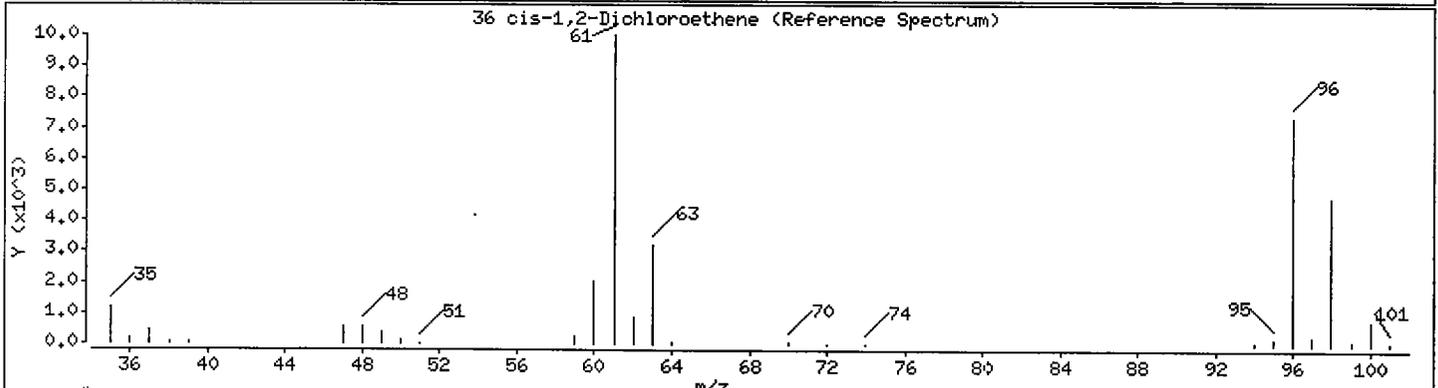
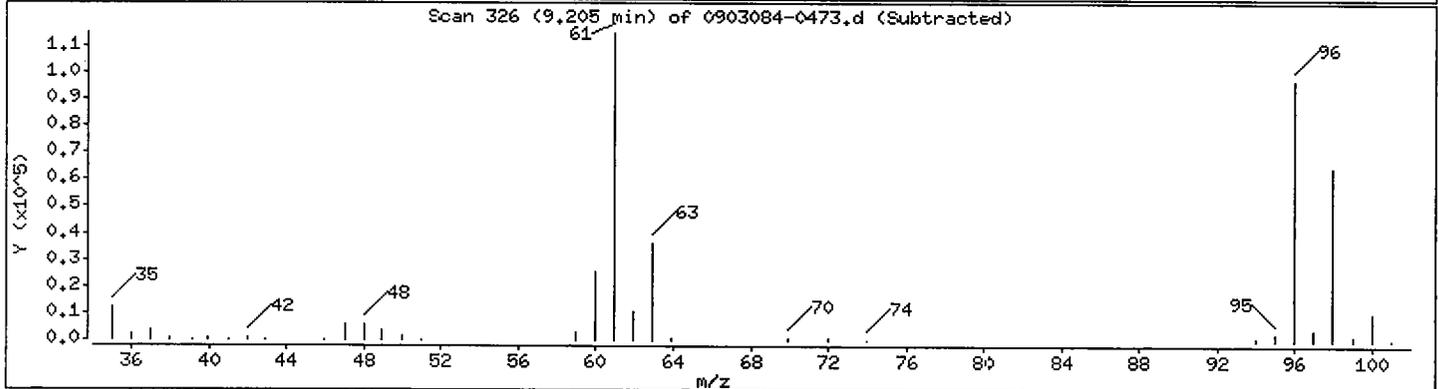
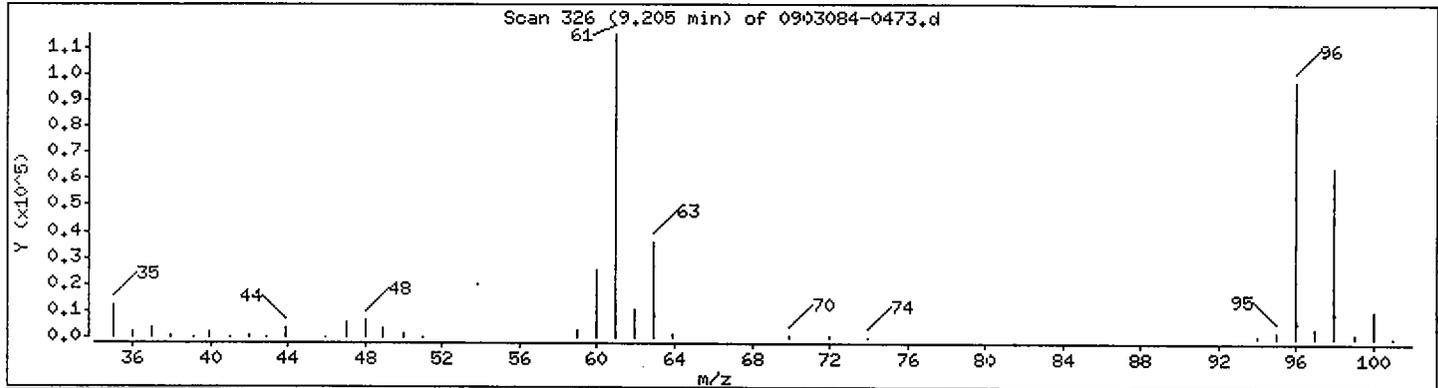
Operator: JAD

Column phase: SPB-624

Column diameter: 0.32

36 cis-1,2-Dichloroethene

Concentration: 9.1 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04:JAO

Purge Volume: 25.0

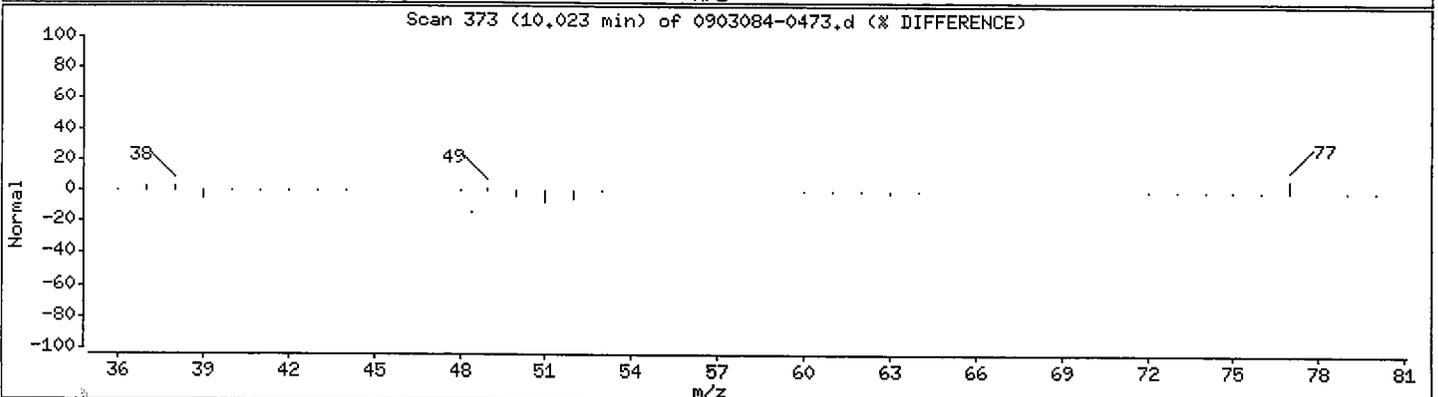
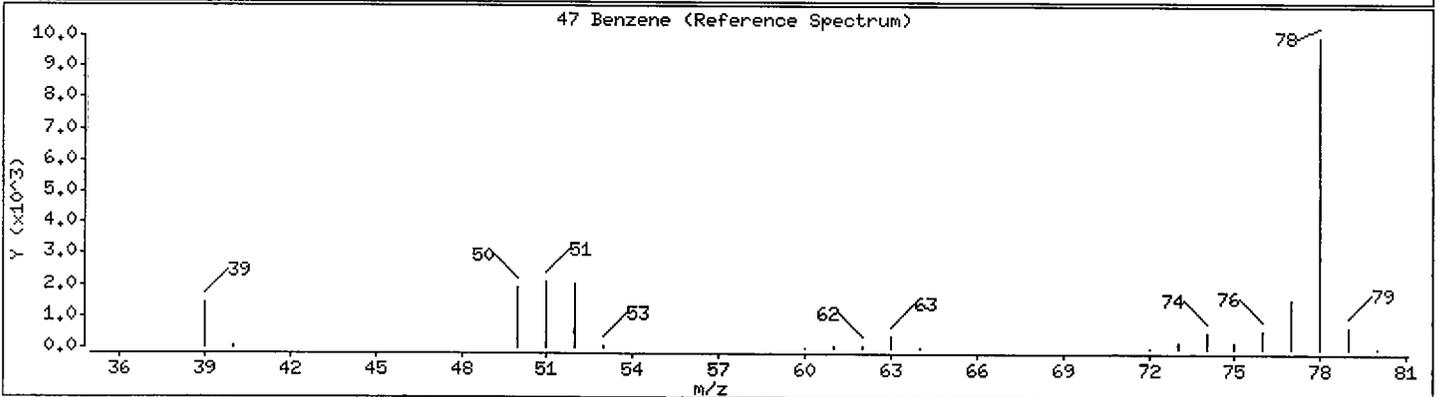
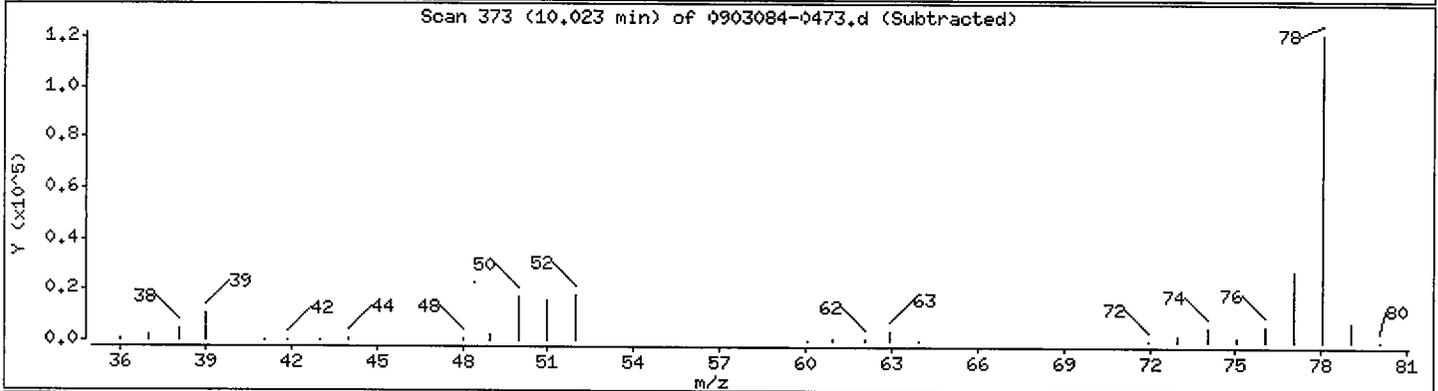
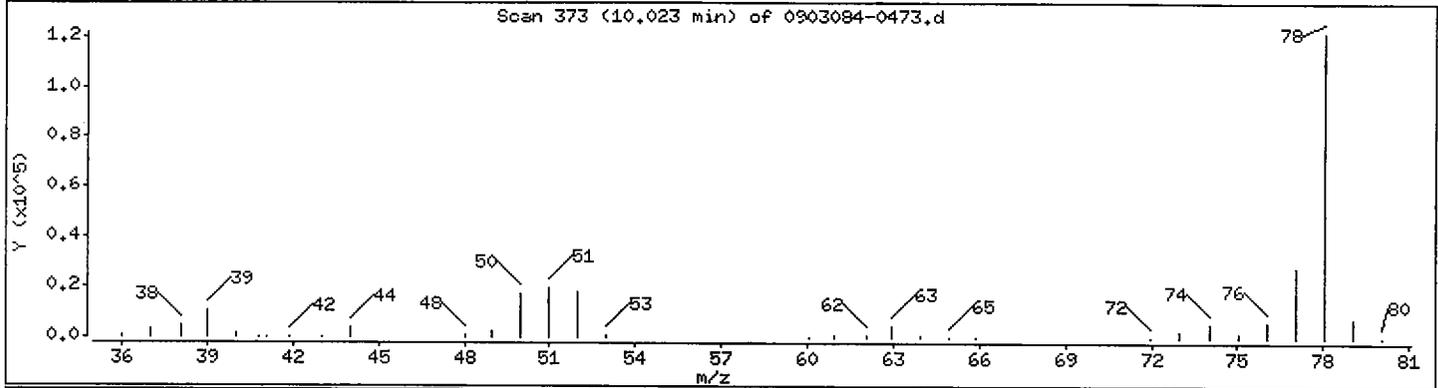
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

47 Benzene

Concentration: 2.9 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04:JAO

Purge Volume: 25.0

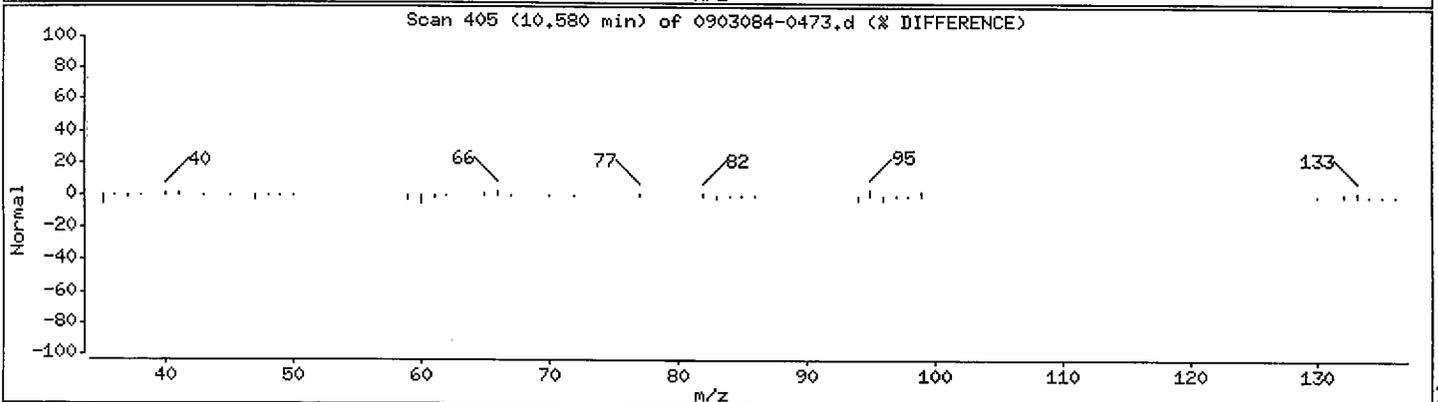
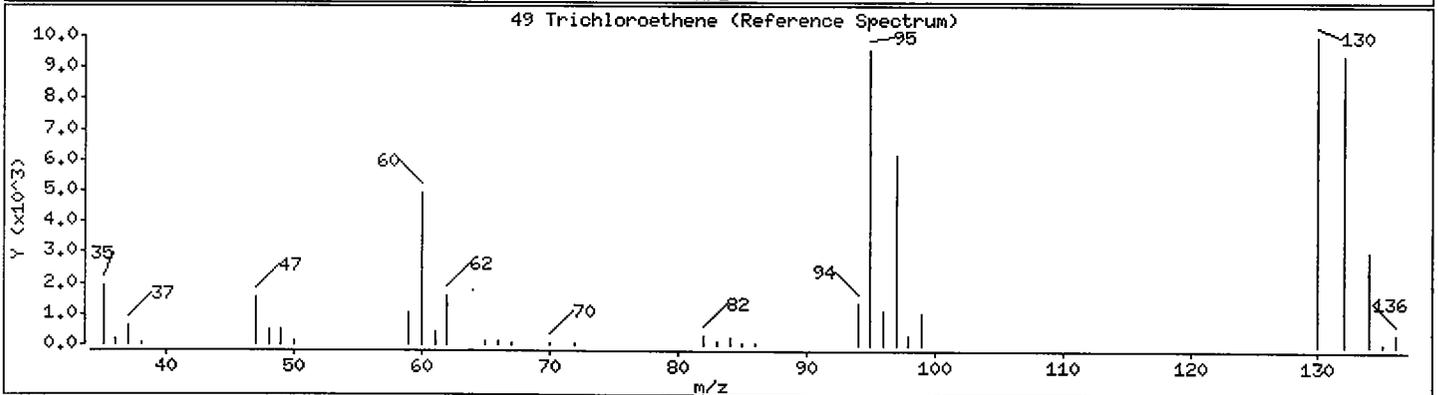
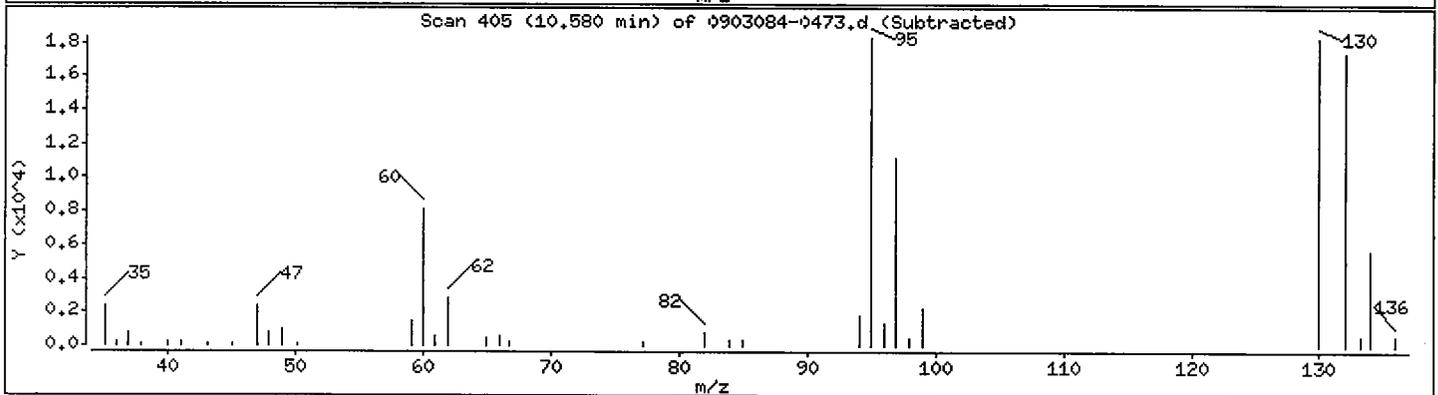
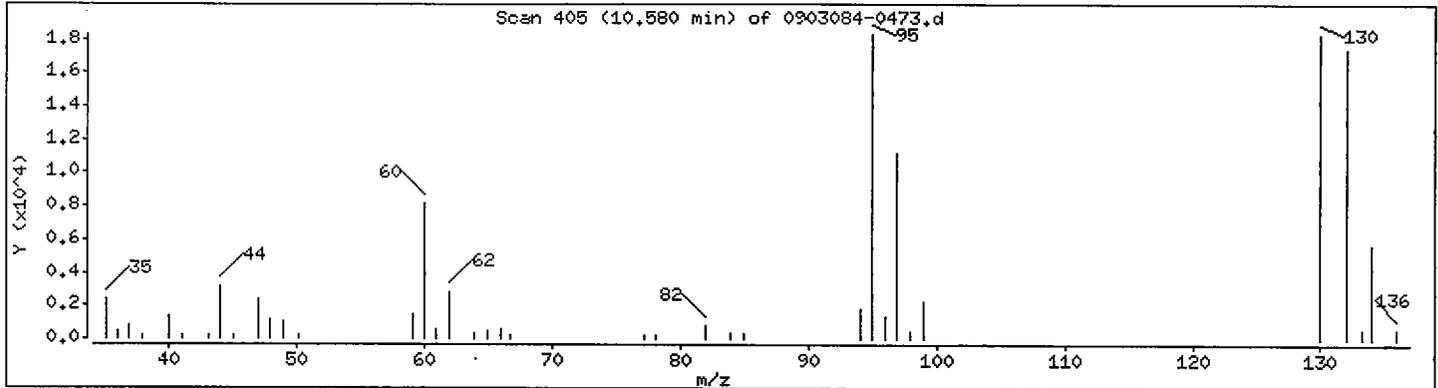
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

49 Trichloroethene

Concentration: 1.4 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04:JAO

Purge Volume: 25.0

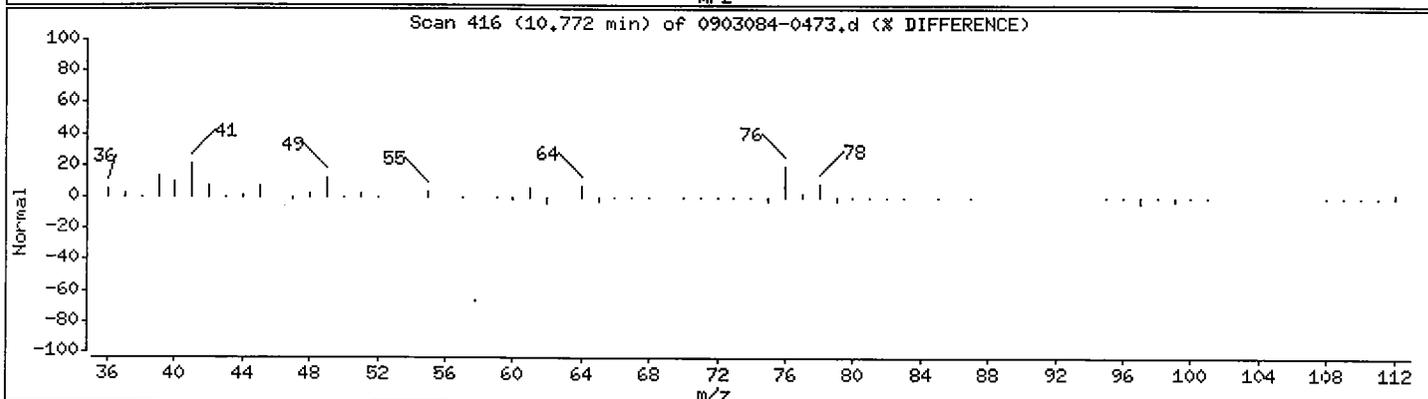
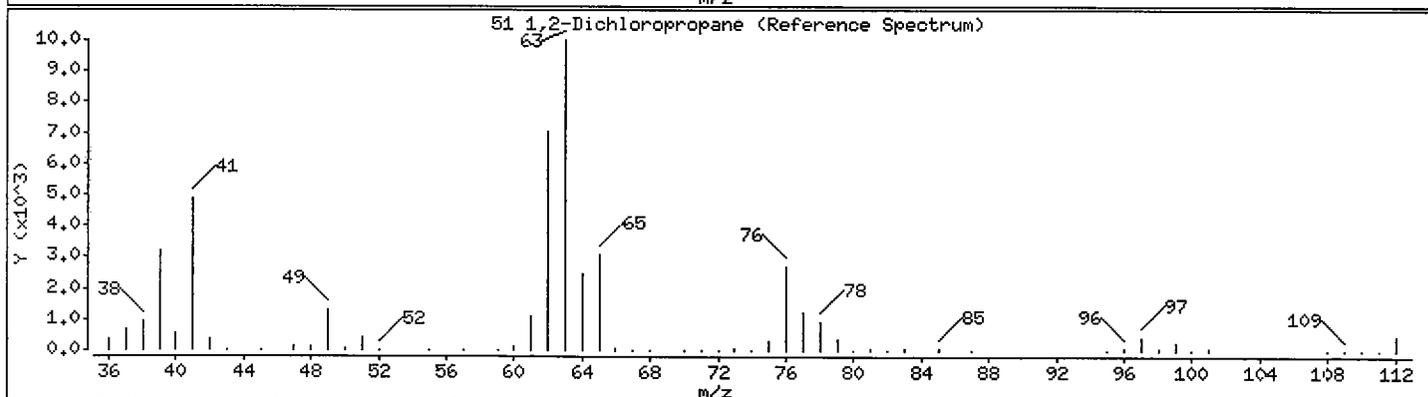
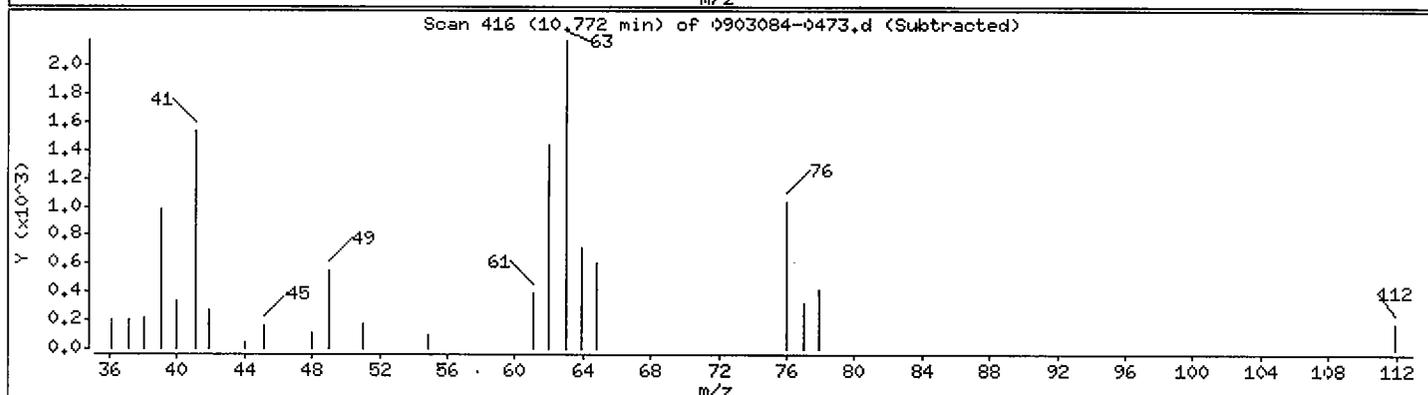
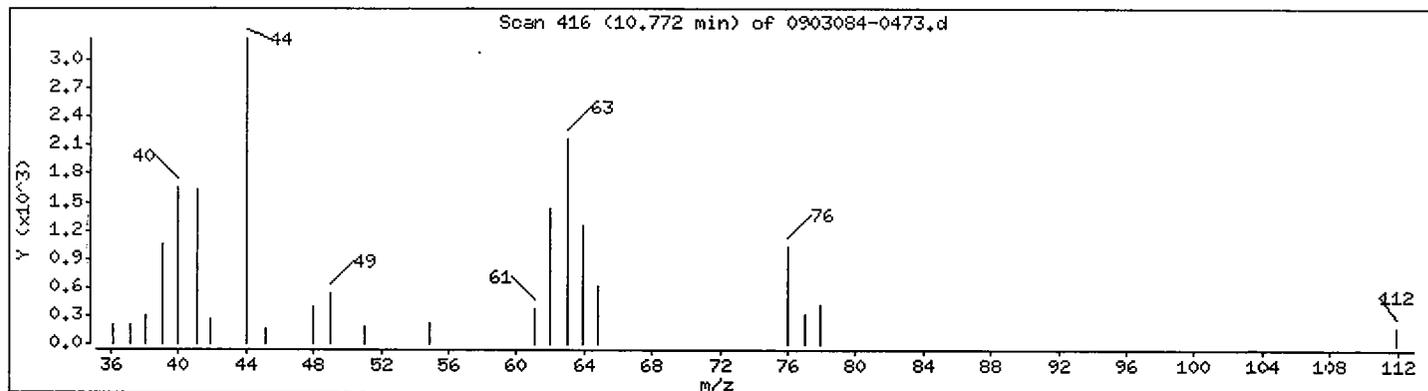
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

51 1,2-Dichloropropane

Concentration: 0.22 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAO

Purge Volume: 25.0

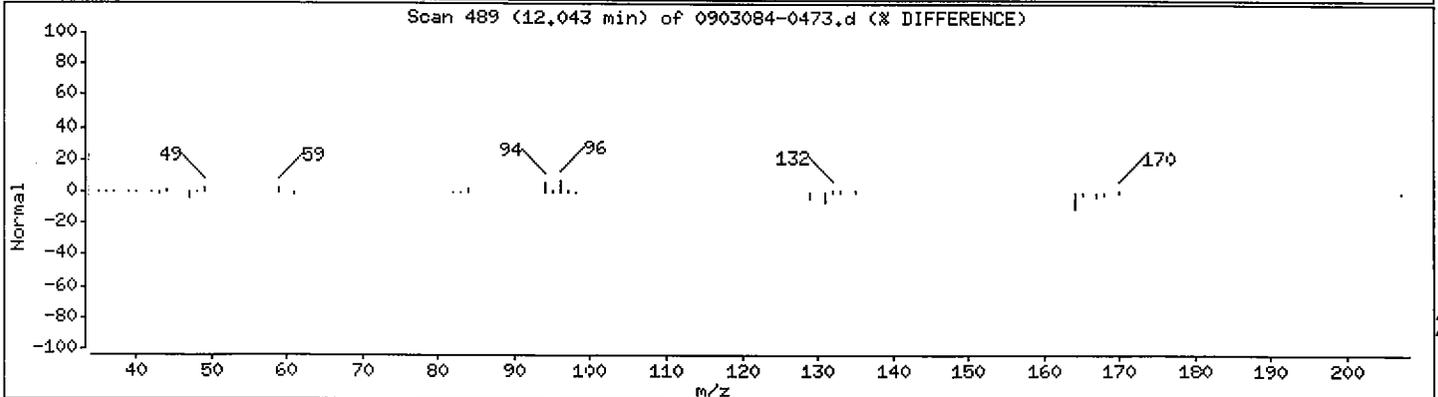
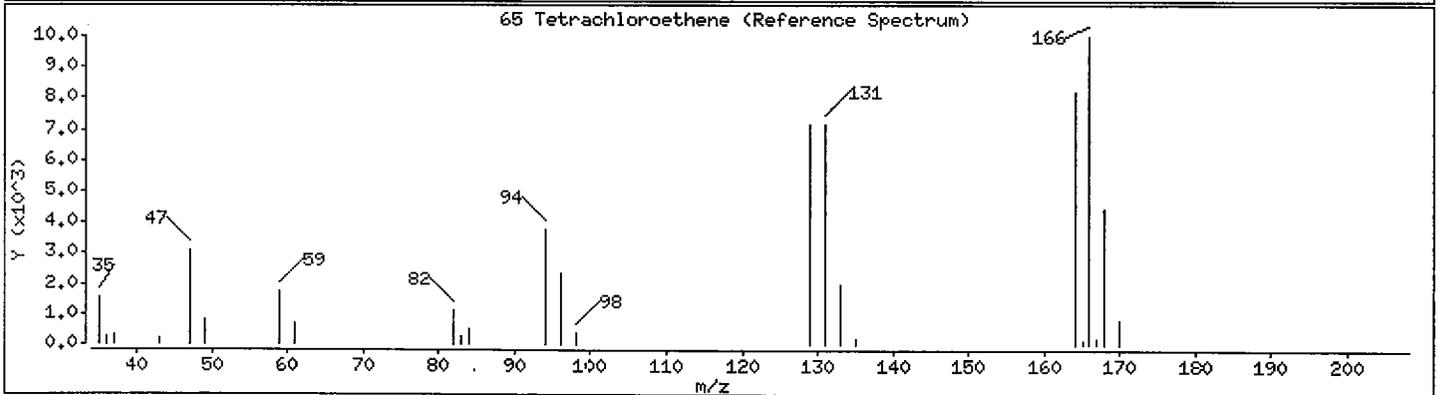
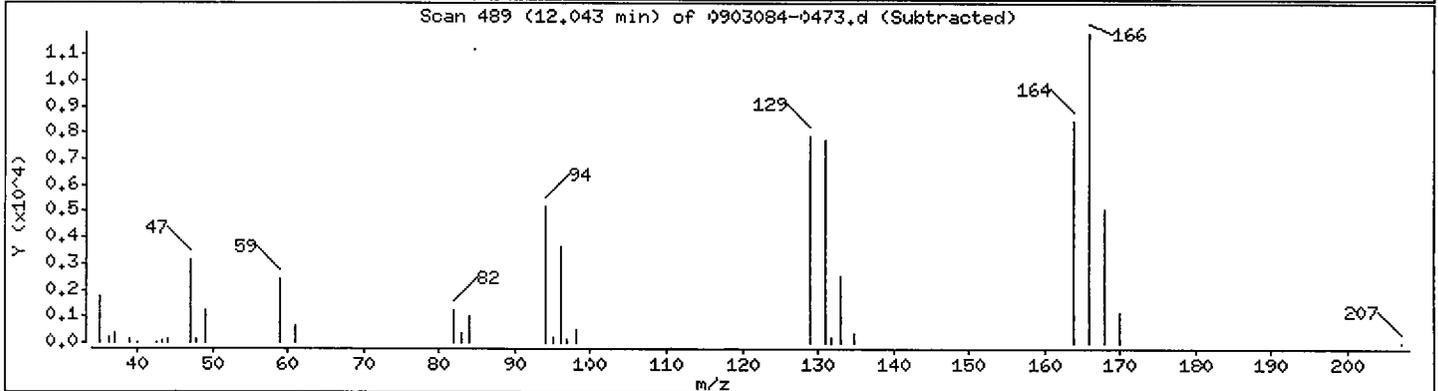
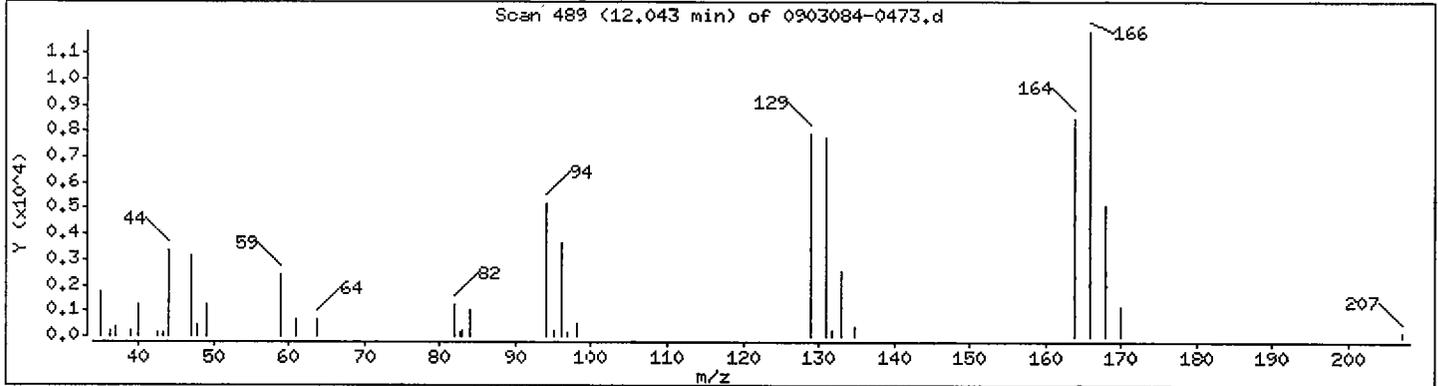
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 0.87 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/0903084-0473.d

Date: 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAO

Purge Volume: 25.0

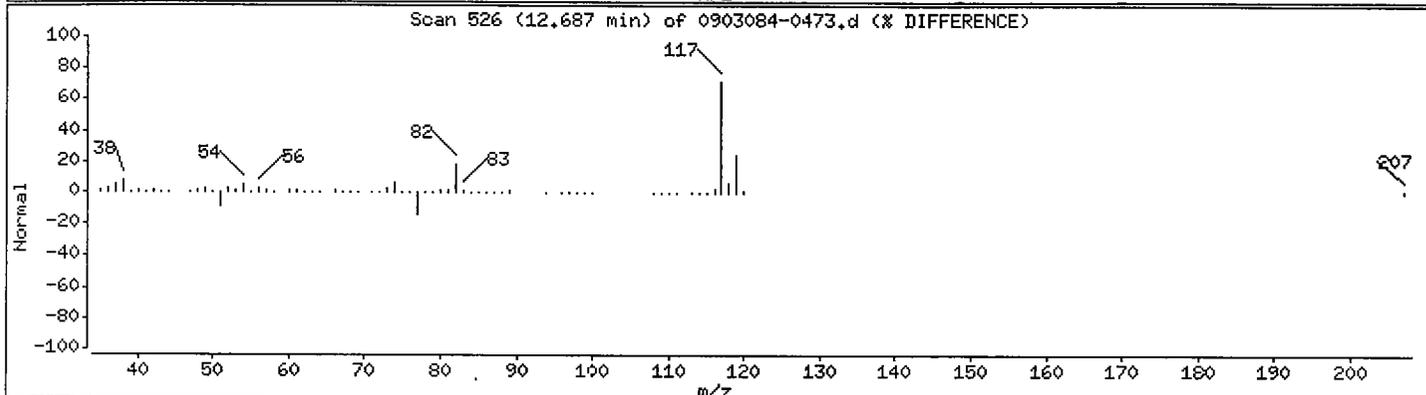
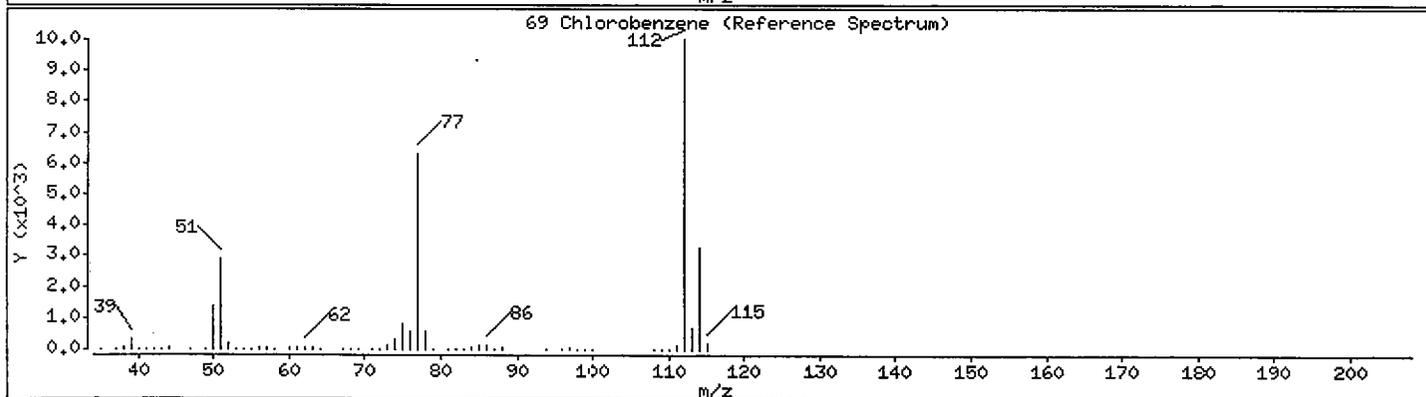
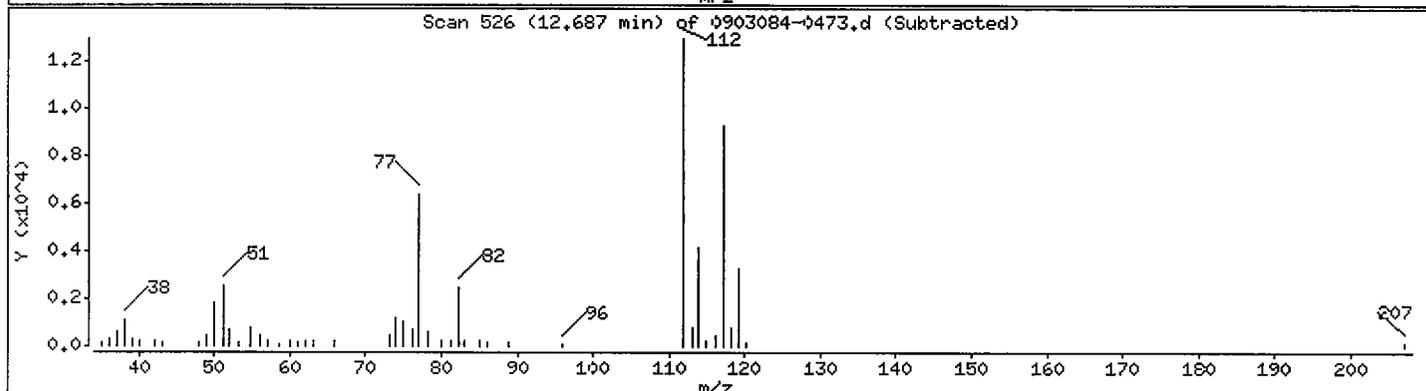
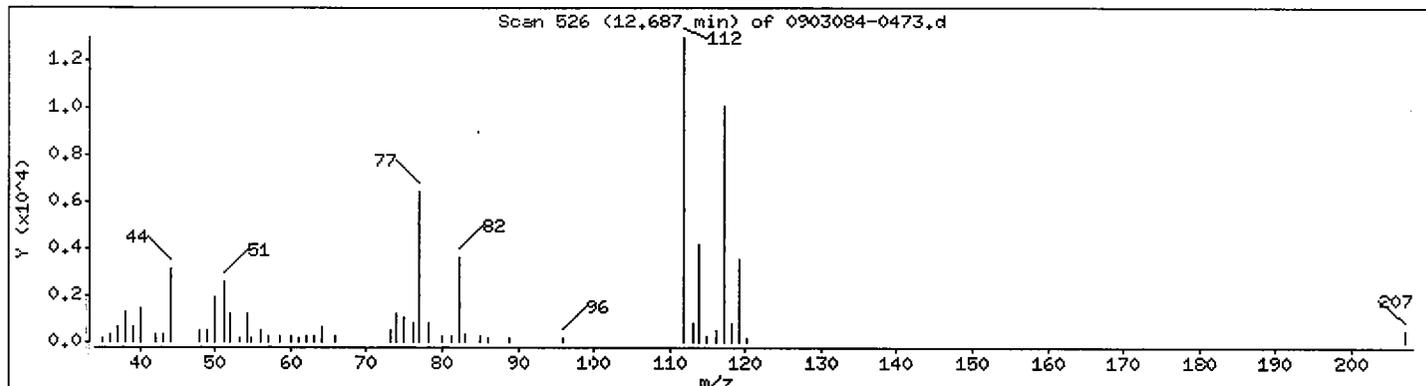
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

69 Chlorobenzene

Concentration: 0.43 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/0903084-0473.d

Date : 19-MAR-2009 19:57

Client ID: MW-9

Instrument: 5972hp73.i

Sample Info: 0903084-04;JAO

Purge Volume: 25.0

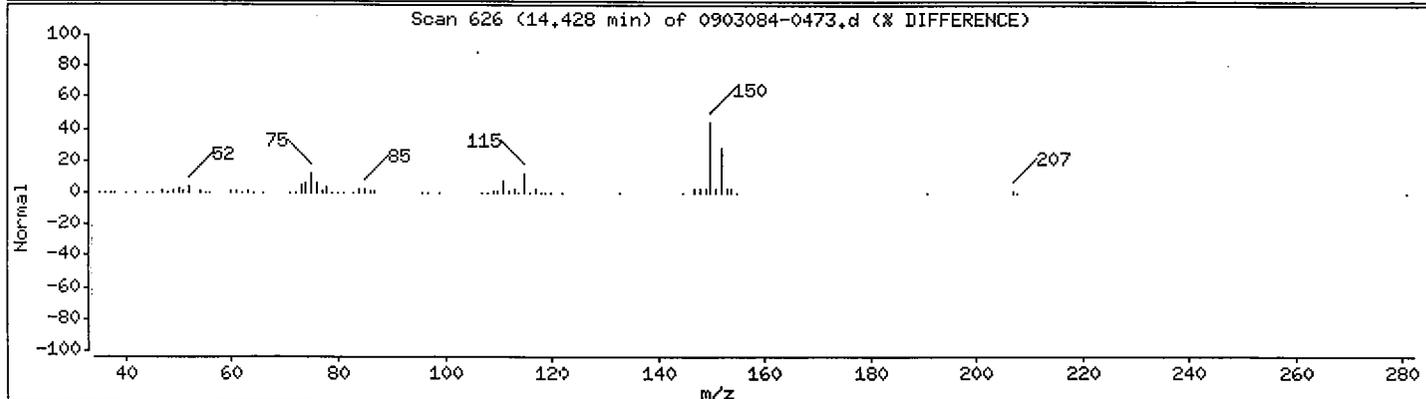
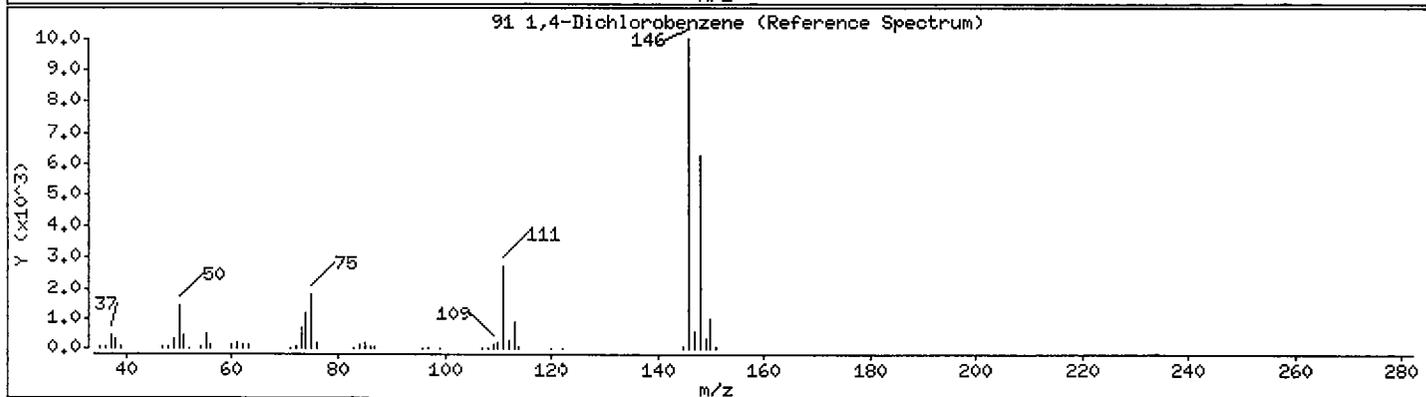
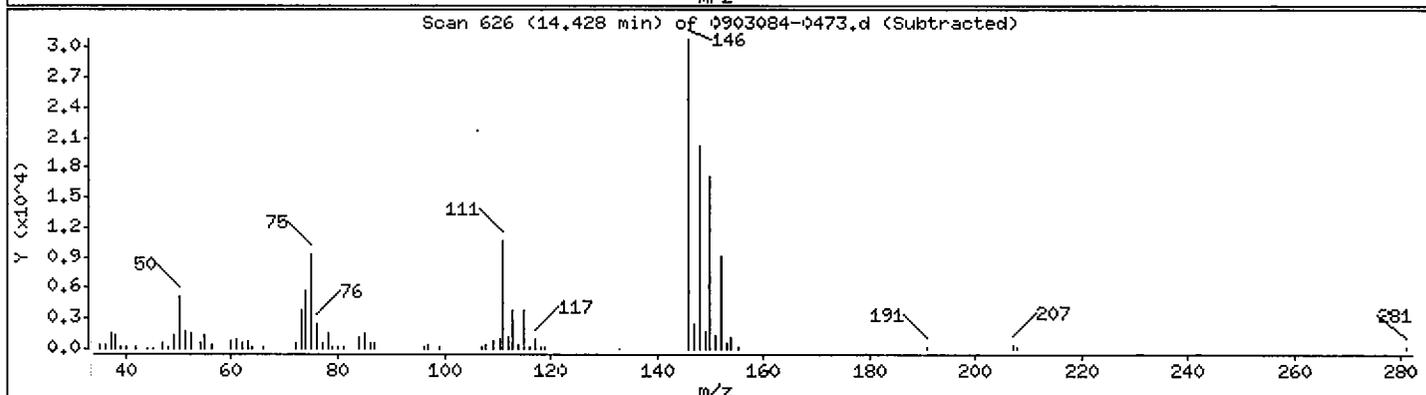
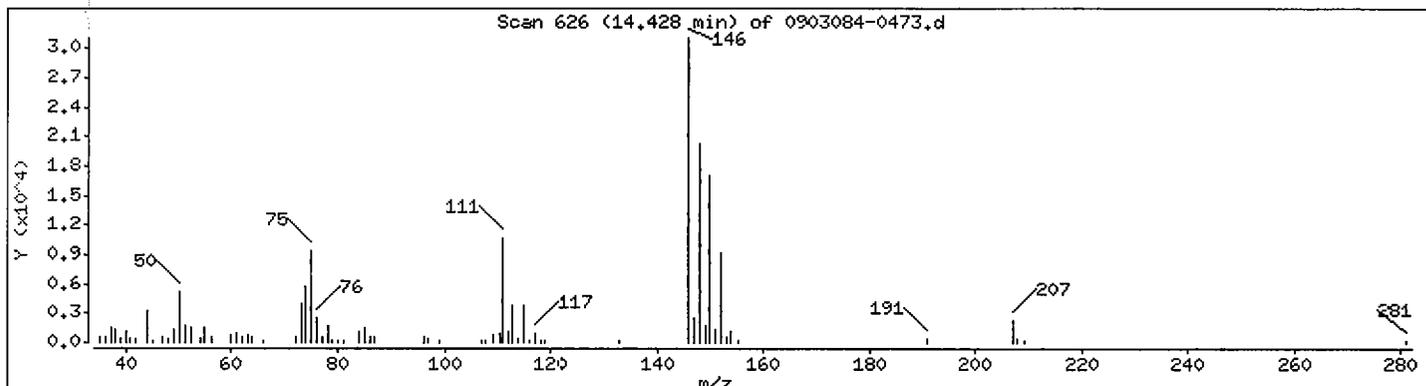
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

91 1,4-Dichlorobenzene

Concentration: 1.4 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-07

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-07R73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 2.7 | B |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.54 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 0903084-07

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 0903084-07R73

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

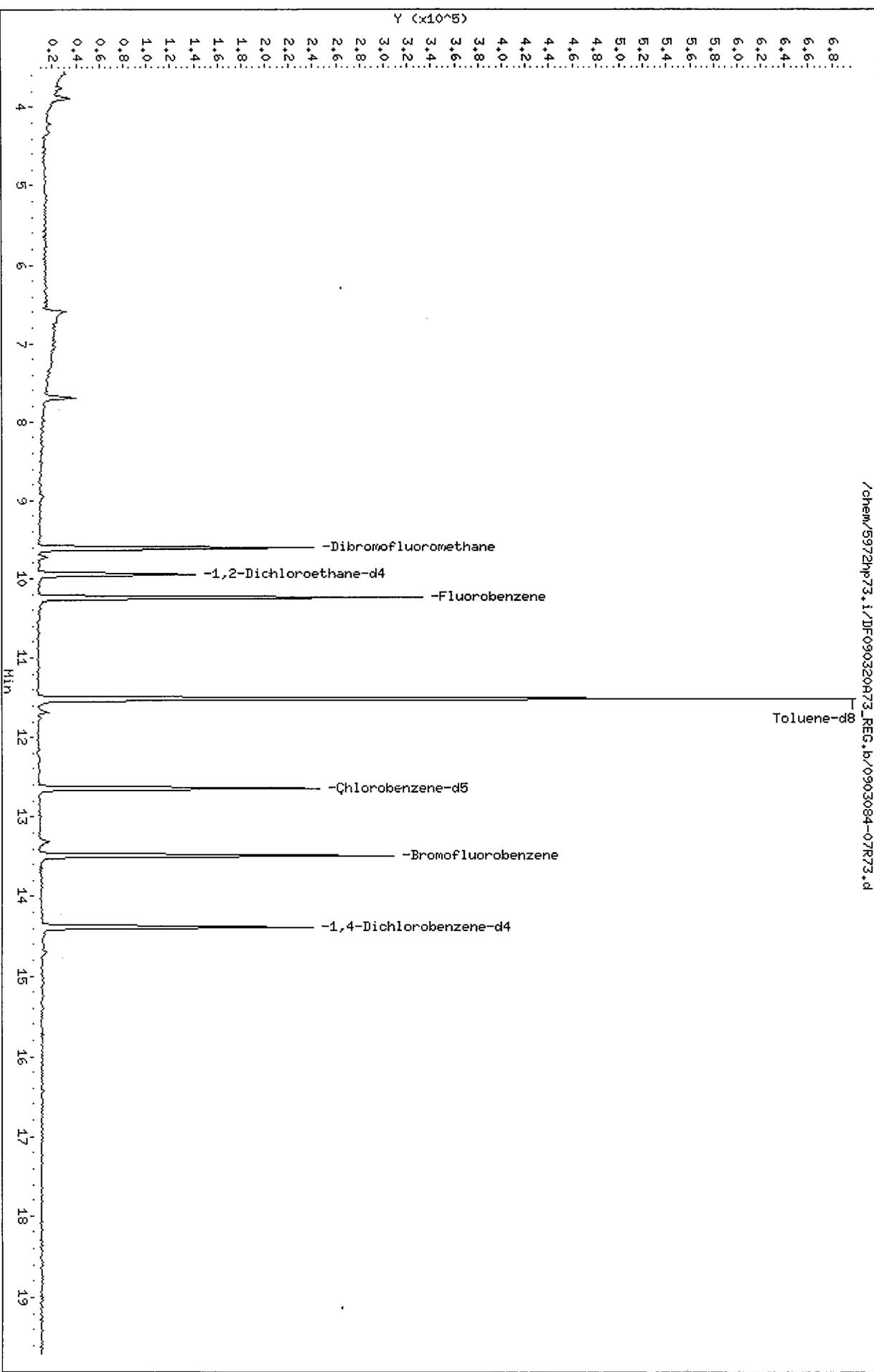
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.1/DF090320973_REG.b/0903084-07R73.d
Date: 20-HAR-2009 21:34
Client ID: TRIP BLANK
Sample Info: 0903084-07.J40
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT
 Data file : /chem/5972hp73.i/DF090320A73_REG.b/0903084-07R73.d
 Lab Smp Id: 0903084-07 Client Smp ID: TRIP BLANK
 Inj Date : 20-MAR-2009 21:31
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 0903084-07:JAO
 Misc Info : TRIP BLANK
 Comment :
 Method : /chem/5972hp73.i/DF090320A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 23-Mar-2009 13:19 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 14:12 Cal File: 9C20003-CAL573.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.234 | 10.248 | (1.000) | 271105 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.654 | 12.651 | (1.000) | 170654 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.396 | 14.393 | (1.000) | 73051 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.607 | 9.622 | (0.939) | 151099 | 153.570 | 6.1 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.955 | 9.952 | (0.973) | 96572 | 156.858 | 6.3 |
| \$ 6 Toluene-d8 | 98 | | | 11.523 | 11.520 | (0.911) | 415686 | 144.990 | 5.8 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.490 | 13.487 | (0.937) | 114386 | 131.789 | 5.3 |
| 8 Dichlorodifluoromethane | 85 | | | Compound Not Detected. | | | | | |
| 9 Chloromethane | 50 | | | Compound Not Detected. | | | | | |
| 10 Vinyl Chloride | 62 | | | Compound Not Detected. | | | | | |
| 11 Bromomethane | 94 | | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | | Compound Not Detected. | | | | | |
| 13 Trichlorofluoromethane | 101 | | | Compound Not Detected. | | | | | |
| 14 Acrolein | 56 | | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | | Compound Not Detected. | | | | | |

[Handwritten signature]
 3/23/09

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-----------|-------|--------|---------|----------|--------------------|------------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.048 | 7.062 | (0.689) | 6325 | 67.1636 | 2.7 |
| 19 Iodomethane | 142 | | | | | | Compound Not Detected. |
| 20 Carbon disulfide | 76 | | | | | | Compound Not Detected. |
| 22 3-Chloropropene | 39 | | | | | | Compound Not Detected. |
| 23 Acetonitrile | 41 | | | | | | Compound Not Detected. |
| 25 Methylene Chloride | 84 | 7.692 | 7.689 | (0.752) | 13318 | 13.6216 | 0.54 |
| 26 Acrylonitrile | 53 | | | | | | Compound Not Detected. |
| 28 trans-1,2-Dichloroethene | 96 | | | | | | Compound Not Detected. |
| 31 Vinyl acetate | 43 | | | | | | Compound Not Detected. |
| 32 1,1-Dichloroethane | 63 | | | | | | Compound Not Detected. |
| 33 Chloroprene | 53 | | | | | | Compound Not Detected. |
| 34 2-butanone | 43 | | | | | | Compound Not Detected. |
| 35 2,2-Dichloropropane | 77 | | | | | | Compound Not Detected. |
| 36 cis-1,2-Dichloroethene | 96 | | | | | | Compound Not Detected. |
| 37 Propionitrile | 54 | | | | | | Compound Not Detected. |
| 38 Methacrylonitrile | 41 | | | | | | Compound Not Detected. |
| 39 Bromochloromethane | 128 | | | | | | Compound Not Detected. |
| 40 Chloroform | 83 | | | | | | Compound Not Detected. |
| 42 1,1,1-Trichloroethane | 97 | | | | | | Compound Not Detected. |
| 44 1,1-dichloropropene | 75 | | | | | | Compound Not Detected. |
| 45 Isobutyl alcohol | 43 | | | | | | Compound Not Detected. |
| 46 Carbon Tetrachloride | 117 | | | | | | Compound Not Detected. |
| 47 Benzene | 78 | | | | | | Compound Not Detected. |
| 48 1,2-Dichloroethane | 62 | | | | | | Compound Not Detected. |
| 49 Trichloroethene | 130 | | | | | | Compound Not Detected. |
| 51 1,2-Dichloropropane | 63 | | | | | | Compound Not Detected. |
| 52 Methylmethacrylate | 69 | | | | | | Compound Not Detected. |
| 54 Dibromomethane | 174 | | | | | | Compound Not Detected. |
| 55 Bromodichloromethane | 83 | | | | | | Compound Not Detected. |
| 57 cis-1,3-Dichloropropene | 75 | | | | | | Compound Not Detected. |
| 58 4-Methyl-2-pentanone | 43 | | | | | | Compound Not Detected. |
| 59 Toluene | 92 | | | | | | Compound Not Detected. |
| 60 Ethylmethacrylate | 69 | | | | | | Compound Not Detected. |
| 61 trans-1,3-Dichloropropene | 75 | | | | | | Compound Not Detected. |
| 62 1,1,2-Trichloroethane | 97 | | | | | | Compound Not Detected. |
| 63 2-hexanone | 43 | | | | | | Compound Not Detected. |
| 64 1,3-Dichloropropane | 76 | | | | | | Compound Not Detected. |
| 65 Tetrachloroethene | 164 | | | | | | Compound Not Detected. |
| 66 Dibromochloromethane | 129 | | | | | | Compound Not Detected. |
| 69 Chlorobenzene | 112 | | | | | | Compound Not Detected. |
| 70 Ethylbenzene | 106 | | | | | | Compound Not Detected. |
| 71 1,1,1,2-Tetrachloroethane | 131 | | | | | | Compound Not Detected. |
| 72 m,p-Xylene | 106 | | | | | | Compound Not Detected. |
| 73 o-Xylene | 106 | | | | | | Compound Not Detected. |
| 74 Styrene | 104 | | | | | | Compound Not Detected. |
| 75 Bromoform | 173 | | | | | | Compound Not Detected. |
| 77 1,1,2,2-Tetrachloroethane | 83 | | | | | | Compound Not Detected. |

Data File: /chem/5972hp73.i/DF090320A73_REG.b/0903084-07R73.d
Report Date: 23-Mar-2009 13:38

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|----|--------|--------|------------------------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | |
| 79 1,2,3-Trichloropropane | 110 | | | | Compound Not Detected. | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | Compound Not Detected. | | |
| 90 1,3-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 91 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 93 1,2-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | Compound Not Detected. | | |
| 96 Hexachlorobutadiene | 225 | | | | Compound Not Detected. | | |
| 97 Naphthalene | 128 | | | | Compound Not Detected. | | |
| M 100 Xylene (total) | 106 | | | | Compound Not Detected. | | |

Data File: /chem/5972hp73.i/DF090320A73_REG,b/0903084-07R73.d

Date : 20-MAR-2009 21:31

Client ID: TRIP BLANK

Instrument: 5972hp73.i

Sample Info: 0903084-07:JAD

Purge Volume: 25.0

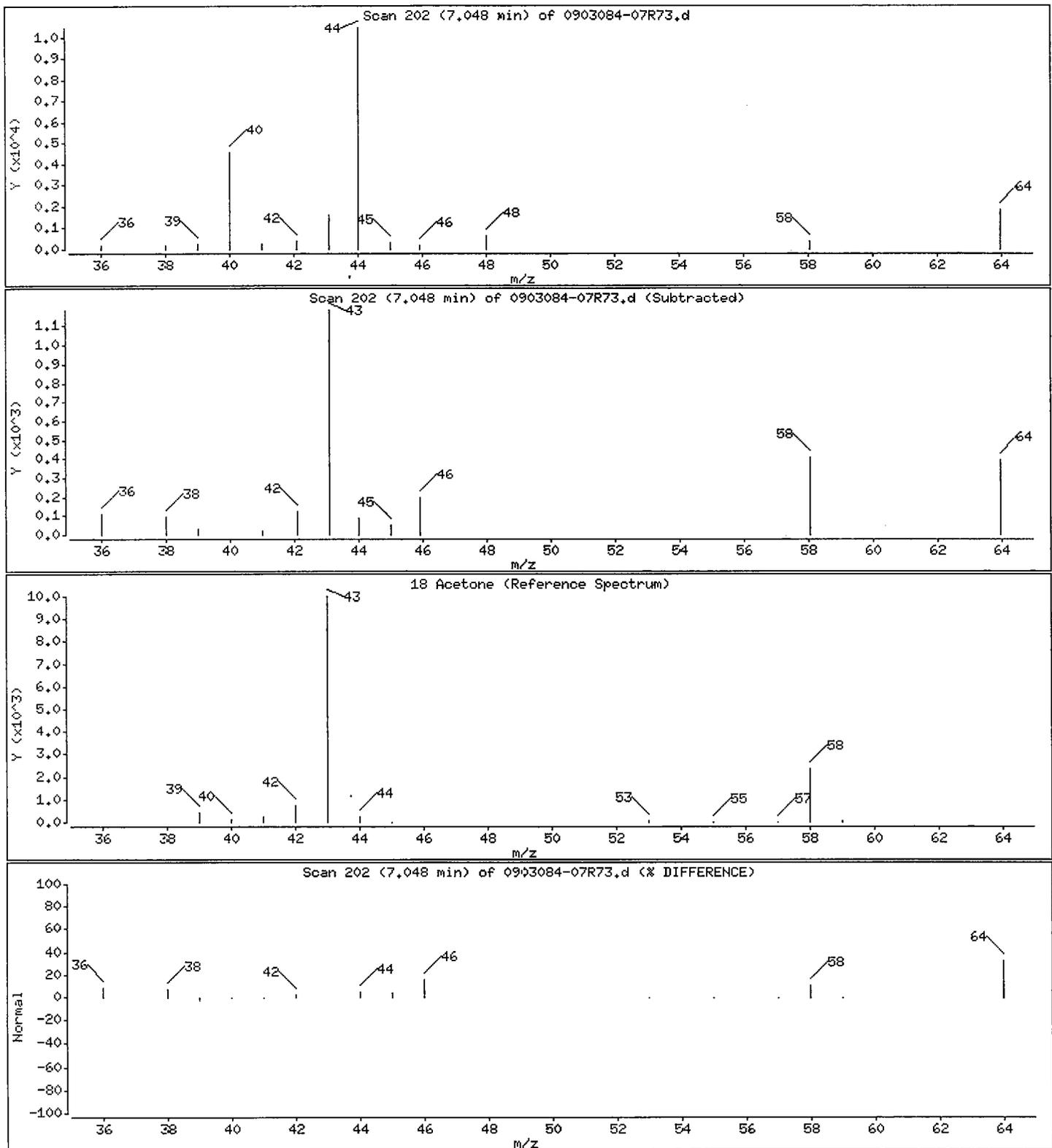
Operator: JAD

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 2.7 ug/L



Date : 20-MAR-2009 21:31

Client ID: TRIP BLANK

Instrument: 5972hp73.i

Sample Info: 0903084-07:JAO

Purge Volume: 25.0

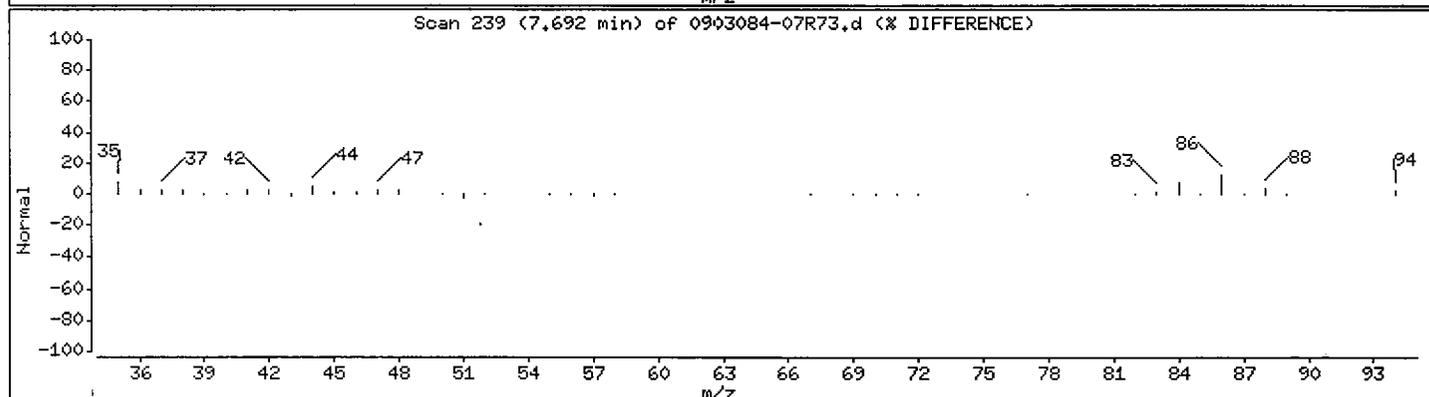
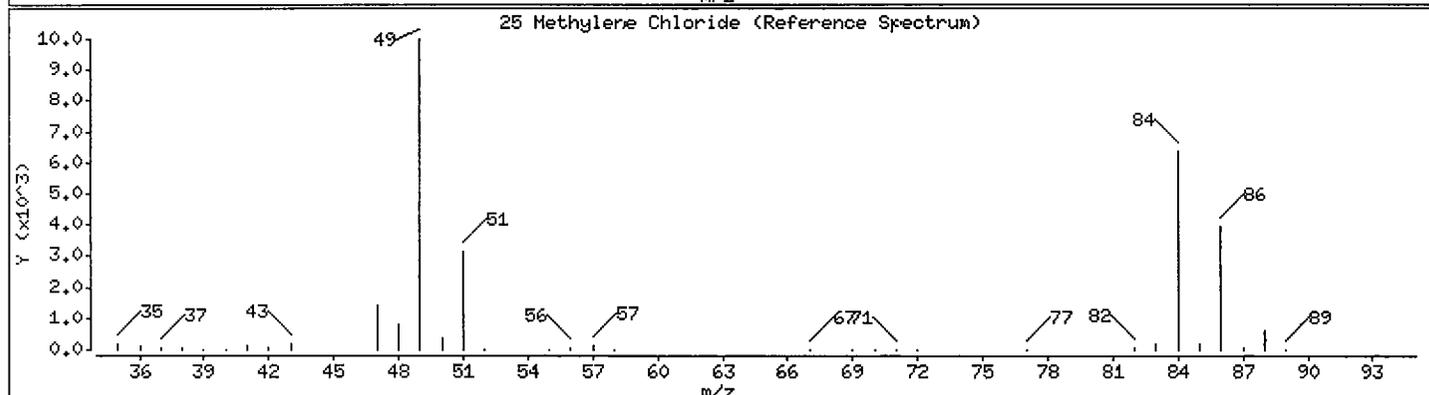
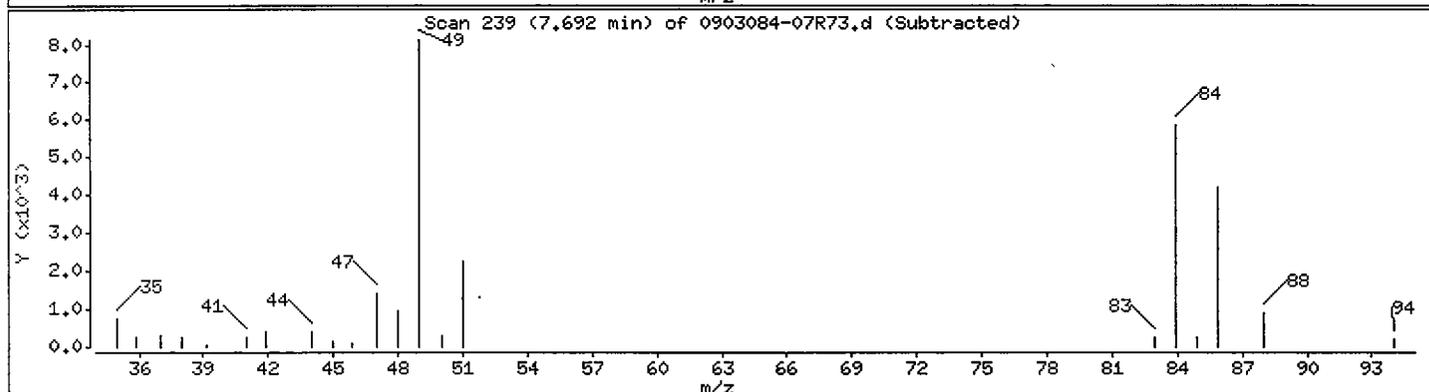
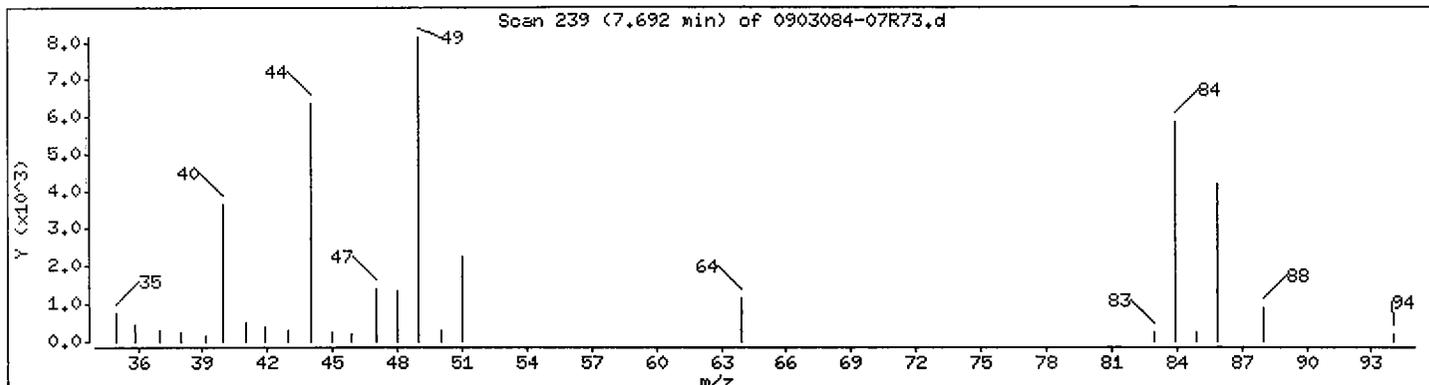
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.54 ug/L



3. Standards Data

- a. Initial Calibration Data (Form VI VOA)
- b. Continuing Calibration Data (Form VII VOA)

a. Initial Calibration Data (Form VI VOA)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

- (1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration.
Spectra not required.
- (2) EICPs displaying each manual integration.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/16/09

03/16/09

Column: SPB-624 ID: 0.32 (mm)

Calibration Time(s): 1056

1253

LAB FILE ID: RF0.5: 9C16001-CALRF1: 9C16001-CAL27RF5: 9C16001-CAL3R
RF10: 9C16001-CAL4RF25: 9C16001-CAL5

| COMPOUND | RF0.5 | RF1 | RF5 | RF10 | RF25 |
|---------------------------|---------|---------|---------|---------|---------|
| Dichlorodifluoromethane | 0.78311 | 0.76947 | 0.69656 | 0.69599 | 0.71437 |
| Chloromethane | 0.45395 | 0.41557 | 0.41069 | 0.39827 | 0.43407 |
| Vinyl Chloride | 0.21956 | 0.20190 | 0.19771 | 0.18532 | 0.20148 |
| Bromomethane | 0.10548 | 0.11100 | 0.11071 | 0.10754 | 0.11776 |
| Chloroethane | 0.09378 | 0.07554 | 0.07583 | 0.07819 | 0.07690 |
| Trichlorofluoromethane | 0.27428 | 0.27552 | 0.26467 | 0.25923 | 0.26763 |
| Acrolein | 0.02075 | 0.01910 | 0.02098 | 0.01894 | 0.02029 |
| 1,1-Dichloroethene | 0.44760 | 0.35216 | 0.38756 | 0.36290 | 0.37709 |
| Iodomethane | 0.55706 | 0.58071 | 0.58239 | 0.56045 | 0.55252 |
| Carbon disulfide | 1.58682 | 1.44389 | 1.47344 | 1.42826 | 1.45520 |
| Acetone | 0.05935 | 0.04807 | 0.03736 | 0.03411 | 0.03446 |
| 3-Chloropropene | 0.45048 | 0.43972 | 0.42353 | 0.42098 | 0.41157 |
| Acetonitrile | 0.67916 | 0.65462 | 0.62362 | 0.61869 | 0.61199 |
| Methylene Chloride | 0.43559 | 0.39728 | 0.35228 | 0.35361 | 0.34674 |
| trans-1,2-Dichloroethene | 0.44783 | 0.42214 | 0.42871 | 0.41679 | 0.43002 |
| Acrylonitrile | 0.04436 | 0.04183 | 0.04337 | 0.04132 | 0.04286 |
| 1,1-Dichloroethane | 0.73598 | 0.70911 | 0.71192 | 0.70220 | 0.70144 |
| Vinyl acetate | 0.24660 | 0.23449 | 0.23269 | 0.23612 | 0.23622 |
| 2,2-Dichloropropane | 0.71021 | 0.54794 | 0.54448 | 0.53049 | 0.54080 |
| cis-1,2-Dichloroethene | 0.42076 | 0.39530 | 0.39547 | 0.39284 | 0.40567 |
| 2-butanone | 0.06706 | 0.06275 | 0.06181 | 0.06010 | 0.06160 |
| Propionitrile | 0.01497 | 0.01506 | 0.01592 | 0.01496 | 0.01503 |
| Bromochloromethane | 0.16014 | 0.14749 | 0.14062 | 0.13915 | 0.14006 |
| Methacrylonitrile | 0.08896 | 0.08336 | 0.08969 | 0.08510 | 0.08626 |
| Chloroform | 0.69379 | 0.65056 | 0.65644 | 0.64091 | 0.65348 |
| 1,1,1-Trichloroethane | 0.71013 | 0.56790 | 0.57709 | 0.53886 | 0.55258 |
| Carbon Tetrachloride | 0.64424 | 0.48928 | 0.51441 | 0.46045 | 0.48329 |
| 1,1-dichloropropene | 0.73945 | 0.55845 | 0.58224 | 0.52409 | 0.54398 |
| Benzene | 1.62993 | 1.39744 | 1.43791 | 1.36588 | 1.37649 |
| 1,2-Dichloroethane | 0.31599 | 0.28342 | 0.29630 | 0.29486 | 0.29802 |
| Isobutyl alcohol | 0.00590 | 0.00577 | 0.00585 | 0.00486 | 0.00516 |
| Trichloroethene | 0.56180 | 0.41387 | 0.41808 | 0.39565 | 0.40840 |
| 1,2-Dichloropropane | 0.35907 | 0.31122 | 0.32737 | 0.31333 | 0.30072 |
| Dibromomethane | 0.13946 | 0.13314 | 0.13844 | 0.13945 | 0.14222 |
| Methylmethacrylate | 0.11427 | 0.10327 | 0.11063 | 0.10318 | 0.09706 |
| Bromodichloromethane | 0.48354 | 0.41081 | 0.42834 | 0.41932 | 0.42598 |
| cis-1,3-Dichloropropene | 0.47806 | 0.45321 | 0.46226 | 0.45358 | 0.46373 |
| 4-Methyl-2-pentanone | 0.21647 | 0.20525 | 0.23290 | 0.21512 | 0.21639 |
| Toluene | 1.73581 | 1.32405 | 1.36299 | 1.19596 | 1.21570 |
| trans-1,3-Dichloropropene | 0.54617 | 0.52750 | 0.55386 | 0.52771 | 0.51882 |
| 1,1,2-Trichloroethane | 0.29911 | 0.24598 | 0.27630 | 0.26270 | 0.25583 |
| Ethylmethacrylate | 0.30893 | 0.30356 | 0.34304 | 0.31773 | 0.29503 |
| Tetrachloroethene | 0.70658 | 0.49322 | 0.51932 | 0.43145 | 0.44445 |
| 1,3-Dichloropropane | 0.49541 | 0.45548 | 0.49278 | 0.47398 | 0.45435 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/16/09

03/16/09

Column: SPB-624 ID: 0.32 (mm)

Calibration Time(s): 1056

1253

LAB FILE ID: RF0.5: 9C16001-CALRF1: 9C16001-CAL27RF5: 9C16001-CAL3R

RF10: 9C16001-CAL4RF25: 9C16001-CAL5

| COMPOUND | RF0.5 | RF1 | RF5 | RF10 | RF25 |
|-----------------------------|---------|---------|---------|---------|---------|
| 2-hexanone | 0.15208 | 0.14275 | 0.16468 | 0.14950 | 0.14894 |
| Dibromochloromethane | 0.40712 | 0.35489 | 0.39410 | 0.37726 | 0.37918 |
| Chlorobenzene | 1.67421 | 1.31648 | 1.38696 | 1.23957 | 1.25269 |
| 1,1,1,2-Tetrachloroethane | 0.55876 | 0.45444 | 0.48781 | 0.44269 | 0.45035 |
| Ethylbenzene | 1.03971 | 0.77729 | 0.79964 | 0.68274 | 0.69825 |
| m,p-Xylene | 1.25652 | 0.90688 | 0.98049 | 0.83022 | 0.81936 |
| o-Xylene | 1.19356 | 0.84321 | 0.91722 | 0.80480 | 0.78678 |
| Styrene | 1.80522 | 1.26309 | 1.46057 | 1.27823 | 1.26556 |
| Bromoform | 0.21510 | 0.18329 | 0.21446 | 0.19384 | 0.19640 |
| 1,2,3-Trichloropropane | 0.07325 | 0.07509 | 0.07281 | 0.06988 | 0.07027 |
| 1,1,2,2-Tetrachloroethane | 0.84162 | 0.68720 | 0.70852 | 0.66663 | 0.67406 |
| trans-1,4-dichloro-2-butene | 0.08004 | 0.06842 | 0.08259 | 0.07659 | 0.07421 |
| 1,3-Dichlorobenzene | 3.39635 | 2.41923 | 2.35502 | 1.97177 | 2.03387 |
| 1,4-Dichlorobenzene | 3.40309 | 2.42930 | 2.30349 | 1.92013 | 2.00671 |
| 1,2-Dichlorobenzene | 2.58706 | 1.86777 | 1.85202 | 1.57195 | 1.62897 |
| 1,2,4-Trichlorobenzene | 1.94741 | 1.33737 | 1.31977 | 1.02887 | 1.04212 |
| Hexachlorobutadiene | 1.20714 | 0.60775 | 0.79222 | 0.61483 | 0.56463 |
| Naphthalene | 2.36328 | 1.71117 | 1.75842 | 1.26745 | 1.37267 |
| Xylene (total) | 1.19356 | 0.84321 | 0.91722 | 0.80480 | 0.78678 |
| Chloroprene | 0.64419 | 0.64621 | 0.61265 | 0.62545 | 0.62746 |
| Dibromofluoromethane | 0.45968 | 0.39127 | 0.38402 | 0.37792 | 0.38981 |
| 1,2-Dichloroethane-d4 | 0.31122 | 0.27223 | 0.25526 | 0.25895 | 0.25113 |
| Toluene-d8 | 2.48138 | 2.24478 | 2.01488 | 1.91880 | 1.90825 |
| Bromofluorobenzene | 2.25342 | 1.89113 | 1.45667 | 1.39984 | 1.41724 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/16/09

03/16/09

Column: SPB-624

ID: 0.32 (mm)

Calibration Time(s): 1056

1253

| COMPOUND | CURVE | COEFFICIENT A1 | %RSD OR R^2 | MAX %RSD OR R^2 |
|---------------------------|-------|-------------------|----------------|--------------------|
| Dichlorodifluoromethane | AVRG | 0.73190148 | 5.666 | 90.000 |
| Chloromethane | AVRG | 0.42250805 | 5.155 | 90.000 |
| Vinyl Chloride | AVRG | 0.20119297 | 6.096 | 30.000 |
| Bromomethane | AVRG | 0.11050036 | 4.218 | 90.000 |
| Chloroethane | AVRG | 0.08004899 | 9.678 | 90.000 |
| Trichlorofluoromethane | AVRG | 0.26827008 | 2.526 | 90.000 |
| Acrolein | AVRG | 0.02001489 | 4.694 | 90.000 |
| 1,1-Dichloroethene | AVRG | 0.38546436 | 9.666 | 30.000 |
| Iodomethane | AVRG | 0.56662553 | 2.457 | 90.000 |
| Carbon disulfide | AVRG | 1.47752299 | 4.283 | 90.000 |
| Acetone | AVRG | 0.04266991 | 25.574 | 90.000 |
| 3-Chloropropene | AVRG | 0.42925688 | 3.635 | 90.000 |
| Acetonitrile | AVRG | 0.63761432 | 4.454 | 90.000 |
| Methylene Chloride | AVRG | 0.37710271 | 10.200 | 90.000 |
| trans-1,2-Dichloroethene | AVRG | 0.42909672 | 2.737 | 90.000 |
| Acrylonitrile | AVRG | 0.04274851 | 2.844 | 90.000 |
| 1,1-Dichloroethane | AVRG | 0.71213148 | 1.974 | 90.000 |
| Vinyl acetate | AVRG | 0.23722546 | 2.291 | 90.000 |
| 2,2-Dichloropropane | AVRG | 0.57478605 | 13.220 | 90.000 |
| cis-1,2-Dichloroethene | AVRG | 0.40200903 | 2.881 | 90.000 |
| 2-butanone | AVRG | 0.06266217 | 4.204 | 90.000 |
| Propionitrile | AVRG | 0.01518778 | 2.719 | 90.000 |
| Bromochloromethane | AVRG | 0.14549083 | 6.069 | 90.000 |
| Methacrylonitrile | AVRG | 0.08667240 | 3.049 | 90.000 |
| Chloroform | AVRG | 0.65903785 | 3.078 | 30.000 |
| 1,1,1-Trichloroethane | AVRG | 0.58931350 | 11.726 | 90.000 |
| Carbon Tetrachloride | AVRG | 0.51833324 | 14.075 | 90.000 |
| 1,1-dichloropropene | AVRG | 0.58964085 | 14.651 | 90.000 |
| Benzene | AVRG | 1.44152983 | 7.552 | 90.000 |
| 1,2-Dichloroethane | AVRG | 0.29771780 | 3.933 | 90.000 |
| Isobutyl alcohol | AVRG | 0.00550944 | 8.541 | 90.000 |
| Trichloroethene | AVRG | 0.43956253 | 15.664 | 90.000 |
| 1,2-Dichloropropane | AVRG | 0.32234250 | 7.017 | 30.000 |
| Dibromomethane | AVRG | 0.13854351 | 2.405 | 90.000 |
| Methylmethacrylate | AVRG | 0.10568036 | 6.428 | 90.000 |
| Bromodichloromethane | AVRG | 0.43359851 | 6.627 | 90.000 |
| cis-1,3-Dichloropropene | AVRG | 0.46216843 | 2.188 | 90.000 |
| 4-Methyl-2-pentanone | AVRG | 0.21722660 | 4.574 | 90.000 |
| Toluene | AVRG | 1.36690100 | 15.946 | 30.000 |
| trans-1,3-Dichloropropene | AVRG | 0.53481387 | 2.728 | 90.000 |
| 1,1,2-Trichloroethane | AVRG | 0.26798240 | 7.688 | 90.000 |
| Ethylmethacrylate | AVRG | 0.31365881 | 5.860 | 90.000 |
| Tetrachloroethene | AVRG | 0.51900457 | 21.342 | 90.000 |
| 1,3-Dichloropropane | AVRG | 0.47439889 | 4.135 | 90.000 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/16/09 03/16/09

Column: SPB-624 ID: 0.32 (mm)

Calibration Time(s): 1056 1253

| COMPOUND | CURVE | COEFFICIENT A1 | %RSD OR R ² | MAX %RSD OR R ² |
|-----------------------------|-------|-------------------|---------------------------|-------------------------------|
| 2-hexanone | AVRG | 0.15159039 | 5.330 | 90.000 |
| Dibromochloromethane | AVRG | 0.38250954 | 5.132 | 90.000 |
| Chlorobenzene | AVRG | 1.37398263 | 12.937 | 90.000 |
| 1,1,1,2-Tetrachloroethane | AVRG | 0.47880799 | 10.006 | 90.000 |
| Ethylbenzene | AVRG | 0.79952634 | 17.917 | 30.000 |
| m,p-Xylene | AVRG | 0.95869464 | 18.643 | 90.000 |
| o-Xylene | AVRG | 0.90911449 | 18.337 | 90.000 |
| Styrene | AVRG | 1.41453380 | 16.521 | 90.000 |
| Bromoform | AVRG | 0.20061853 | 6.895 | 90.000 |
| 1,2,3-Trichloropropane | AVRG | 0.07226120 | 3.008 | 90.000 |
| 1,1,2,2-Tetrachloroethane | AVRG | 0.71560790 | 10.092 | 90.000 |
| trans-1,4-dichloro-2-butene | AVRG | 0.07636983 | 7.174 | 90.000 |
| 1,3-Dichlorobenzene | AVRG | 2.43524715 | 23.467 | 90.000 |
| 1,4-Dichlorobenzene | AVRG | 2.41254443 | 24.527 | 90.000 |
| 1,2-Dichlorobenzene | AVRG | 1.90155617 | 21.304 | 90.000 |
| 1,2,4-Trichlorobenzene | AVRG | 1.33510805 | 27.894 | 90.000 |
| Hexachlorobutadiene | AVRG | 0.75731427 | 35.145 | 90.000 |
| Naphthalene | AVRG | 1.69459833 | 25.340 | 90.000 |
| Xylene (total) | AVRG | 0.90911449 | 18.337 | 90.000 |
| Chloroprene | AVRG | 0.63119086 | 2.219 | 90.000 |
| Dibromofluoromethane | AVRG | 0.40054149 | 8.358 | 90.000 |
| 1,2-Dichloroethane-d4 | AVRG | 0.26975940 | 9.079 | 90.000 |
| Toluene-d8 | AVRG | 2.11362117 | 11.645 | 90.000 |
| Bromofluorobenzene | AVRG | 1.68366153 | 22.435 | 90.000 |

Average %RSD test result.

Calculate Average %RSD: 13.18225861

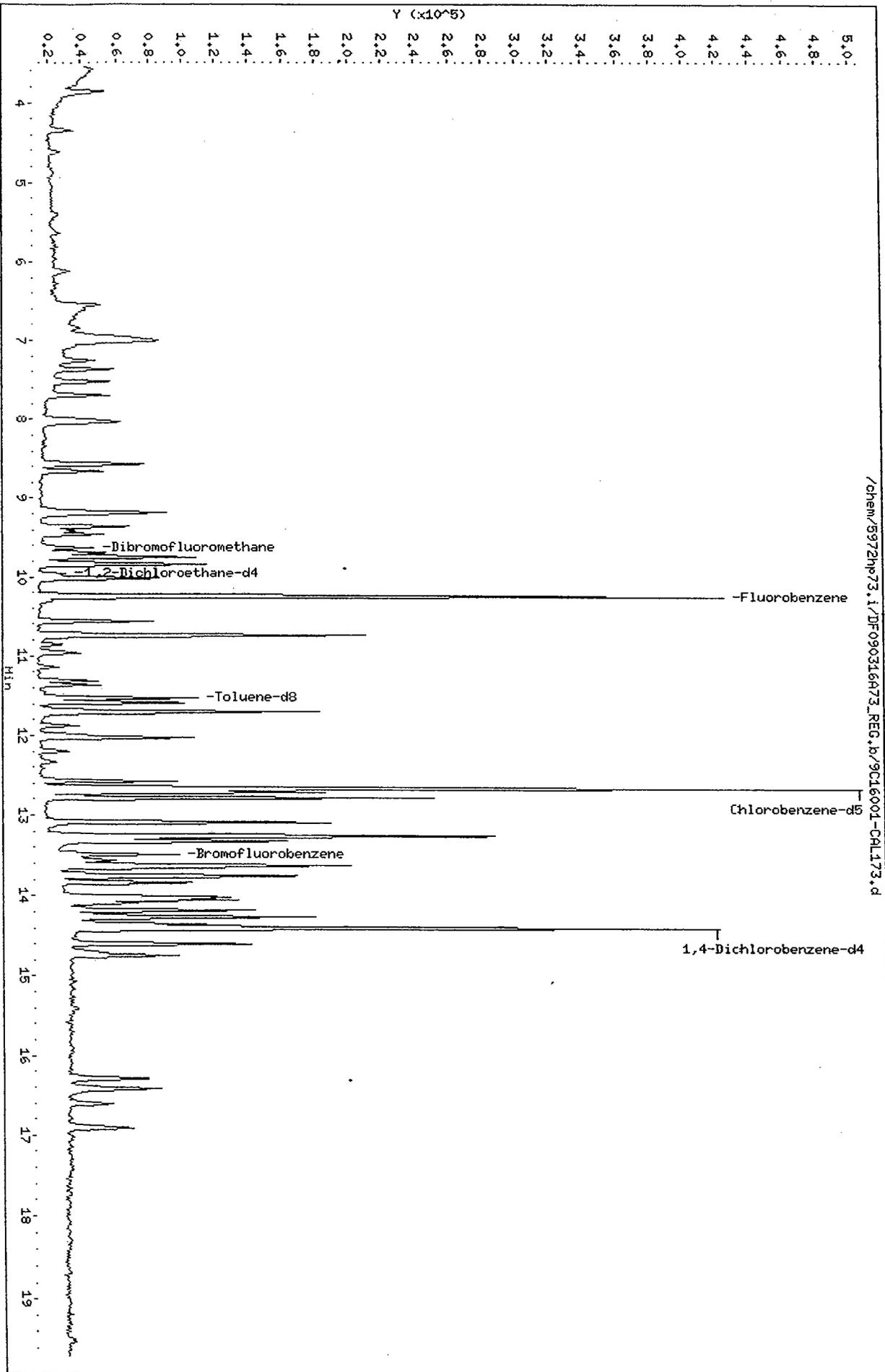
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

Data File: /chem/5972mp73.i/DF090316473.REG.b/9C16001-CAL173.d
Date: 16-MAR-2009 11:26
Client ID: VSTD0.5
Sample Info: 9C16001-CAL1:JAO
Purge Volume: 25.0
Column Phase: SPB-624

Instrument: 5972mp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL173.d
 Lab Smp Id: 9C16001-CAL1 Client Smp ID: VSTD0.5
 Inj Date : 16-MAR-2009 11:26
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C16001-CAL1:JAO
 Misc Info : VSTD0.5
 Comment :
 Method : /chem/5972hp73.i/DF090316A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 17-Mar-2009 13:04 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 11:26 Cal File: 9C16001-CAL173.d
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | | 10.248 | 10.235 | (1.000) | 392293 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.650 | 12.655 | (1.000) | 257465 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.392 | 14.396 | (1.000) | 108231 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.621 | 9.625 | (0.939) | 18033 | 12.5000 | 14 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.951 | 9.956 | (0.971) | 12209 | 12.5000 | 13 |
| \$ 6 Toluene-d8 | 98 | | 11.519 | 11.523 | (0.911) | 63887 | 12.5000 | 13 |
| \$ 7 Bromofluorobenzene | 95 | | 13.486 | 13.491 | (0.937) | 24389 | 12.5000 | 14 (M) |
| 8 Dichlorodifluoromethane | 85 | | 3.875 | 3.862 | (0.378) | 30721 | 12.5000 | 13 |
| 9 Chloromethane | 50 | | 4.345 | 4.332 | (0.424) | 17808 | 12.5000 | 13 |
| 10 Vinyl Chloride | 62 | | 4.623 | 4.611 | (0.451) | 8613 | 12.5000 | 13 |
| 11 Bromomethane | 94 | | 5.407 | 5.394 | (0.528) | 4138 | 12.5000 | 12 |
| 12 Chloroethane | 64 | | 5.633 | 5.620 | (0.550) | 3679 | 12.5000 | 14 |
| 13 Trichlorofluoromethane | 101 | | 6.121 | 6.125 | (0.597) | 10760 | 12.5000 | 12 |
| 14 Acrolein | 56 | | 6.852 | 6.839 | (0.669) | 8142 | 125.000 | 130 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | | 6.939 | 6.944 | (0.677) | 12509 | 12.5000 | 15 |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | | 6.991 | 6.979 | (0.682) | 13890 | 12.5000 | 14 |

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| Compounds | QUANT SIG | | | AMOUNTS | | |
|------------------------------|-----------|--------|----------------|----------|---------------|--------------|
| | MASS | RT | EXP RT REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 17 1,1-Dichloroethene | 96 | 7.009 | 7.013 (0.684) | 17559 | 12.5000 | 14 |
| 18 Acetone | 43 | 7.061 | 7.066 (0.689) | 11641 | 62.5000 | 69 |
| 19 Iodomethane | 142 | 7.253 | 7.240 (0.708) | 21853 | 12.5000 | 12 |
| 20 Carbon disulfide | 76 | 7.357 | 7.362 (0.718) | 62250 | 12.5000 | 13 |
| 22 3-Chloropropene | 39 | 7.531 | 7.518 (0.735) | 17672 | 12.5000 | 13 |
| 23 Acetonitrile | 41 | 7.514 | 7.518 (0.733) | 26643 | 12.5000 | 13 |
| 24 Methyl acetate | 43 | 7.514 | 7.518 (0.733) | 13329 | 12.5000 | 15 |
| 25 Methylene Chloride | 84 | 7.705 | 7.693 (0.752) | 17088 | 12.5000 | 13 |
| 26 Acrylonitrile | 53 | 8.001 | 7.989 (0.781) | 17404 | 125.000 | 130 |
| 28 trans-1,2-Dichloroethene | 96 | 8.054 | 8.041 (0.786) | 17568 | 12.5000 | 13 |
| 27 Methyl-tert-butyl ether | 73 | 8.019 | 8.023 (0.783) | 21701 | 12.5000 | 13 |
| 30 Isopropyl ether | 45 | 8.576 | 8.563 (0.837) | 47409 | 12.5000 | 13 |
| 31 Vinyl acetate | 43 | 8.576 | 8.563 (0.837) | 19348 | 25.0000 | 26 (M) |
| 32 1,1-Dichloroethane | 63 | 8.559 | 8.563 (0.835) | 28872 | 12.5000 | 13 |
| 33 Chloroprene | 53 | 8.663 | 8.650 (0.845) | 25271 | 12.5000 | 12 |
| 34 2-butanone | 43 | 9.133 | 9.138 (0.891) | 13153 | 62.5000 | 65 |
| 35 2,2-Dichloropropane | 77 | 9.185 | 9.173 (0.896) | 27861 | 12.5000 | 14 |
| 36 cis-1,2-Dichloroethene | 96 | 9.185 | 9.190 (0.896) | 16506 | 12.5000 | 13 |
| 37 Propionitrile | 54 | 9.220 | 9.207 (0.900) | 29362 | 625.000 | 620 |
| 38 Methacrylonitrile | 41 | 9.359 | 9.364 (0.913) | 34897 | 125.000 | 130 |
| 39 Bromochloromethane | 128 | 9.429 | 9.416 (0.920) | 6282 | 12.5000 | 13 |
| 40 Chloroform | 83 | 9.464 | 9.469 (0.924) | 27217 | 12.5000 | 13 |
| 42 1,1,1-Trichloroethane | 97 | 9.690 | 9.677 (0.946) | 27858 | 12.5000 | 14 |
| 43 Cyclohexane | -84 | 9.743 | 9.730 (0.951) | 40993 | 12.5000 | 15 |
| 44 1,1-dichloropropene | 75 | 9.830 | 9.817 (0.959) | 29008 | 12.5000 | 14 |
| 45 Isobutyl alcohol | 43 | 9.795 | 9.799 (0.956) | 11582 | 625.000 | 630 |
| 46 Carbon Tetrachloride | 117 | 9.847 | 9.834 (0.961) | 25273 | 12.5000 | 14 |
| 47 Benzene | 78 | 10.004 | 10.008 (0.976) | 63941 | 12.5000 | 13 |
| 48 1,2-Dichloroethane | 62 | 10.021 | 10.026 (0.978) | 12396 | 12.5000 | 13 |
| 49 Trichloroethene | 130 | 10.561 | 10.566 (1.031) | 22039 | 12.5000 | 14 |
| 50 Methylcyclohexane | 83 | 10.735 | 10.740 (1.048) | 37724 | 12.5000 | 15 |
| 51 1,2-Dichloropropane | 63 | 10.752 | 10.757 (1.049) | 14086 | 12.5000 | 13 |
| 52 Methylmethacrylate | 69 | 10.735 | 10.740 (1.048) | 44826 | 125.000 | 130 |
| 53 1,4-dioxane | 88 | 10.822 | 10.809 (1.056) | 2090 | 625.000 | 580 |
| 54 Dibromomethane | 174 | 10.874 | 10.862 (1.061) | 5471 | 12.5000 | 13 |
| 55 Bromodichloromethane | 83 | 10.961 | 10.949 (1.070) | 18969 | 12.5000 | 14 |
| 56 2-chloroethyl vinyl ether | 63 | 11.136 | 11.123 (1.087) | 5000 | 125.000 | 130 |
| 57 cis-1,3-Dichloropropene | 75 | 11.310 | 11.297 (1.104) | 18754 | 12.5000 | 13 |
| 58 4-Methyl-2-pentanone | 43 | 11.362 | 11.349 (0.898) | 27867 | 62.5000 | 64 |
| 59 Toluene | 92 | 11.588 | 11.575 (0.916) | 44691 | 12.5000 | 14 |
| 60 Ethylmethacrylate | 69 | 11.693 | 11.697 (0.924) | 79539 | 125.000 | 130 |
| 61 trans-1,3-Dichloropropene | 75 | 11.728 | 11.715 (0.927) | 14062 | 12.5000 | 13 |
| 62 1,1,2-Trichloroethane | 97 | 11.884 | 11.871 (0.939) | 7701 | 12.5000 | 14 |
| 63 2-hexanone | 43 | 11.989 | 11.993 (0.948) | 19577 | 62.5000 | 64 |
| 64 1,3-Dichloropropane | 76 | 12.024 | 12.028 (0.950) | 12755 | 12.5000 | 13 |
| 65 Tetrachloroethene | 164 | 12.041 | 12.028 (0.952) | 18192 | 12.5000 | 15 |
| 66 Dibromochloromethane | 129 | 12.215 | 12.202 (0.966) | 10482 | 12.5000 | 13 |

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 P.J.

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|---------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 67 1,2-Dibromoethane | 107 | 12.337 | 12.324 | (0.975) | 8035 | 12.5000 | 14 |
| 68 1-Chlorohexane | 55 | 12.563 | 12.568 | (0.993) | 17059 | 12.5000 | 13 |
| 69 Chlorobenzene | 112 | 12.668 | 12.672 | (1.001) | 43105 | 12.5000 | 14 |
| 70 Ethylbenzene | 106 | 12.703 | 12.690 | (1.004) | 26769 | 12.5000 | 14 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.720 | 12.707 | (1.006) | 14386 | 12.5000 | 14 |
| 72 m,p-Xylene | 106 | 12.772 | 12.777 | (1.010) | 64702 | 25.0000 | 29 |
| 73 o-Xylene | 106 | 13.086 | 13.073 | (1.034) | 30730 | 12.5000 | 15 |
| 74 Styrene | 104 | 13.086 | 13.073 | (1.034) | 46478 | 12.5000 | 15 |
| 75 Bromoform | 173 | 13.277 | 13.264 | (1.050) | 5538 | 12.5000 | 13 |
| 76 Isopropyl Benzene | 105 | 13.329 | 13.317 | (1.054) | 88995 | 12.5000 | 15 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.521 | 13.526 | (0.939) | 9109 | 12.5000 | 14 |
| 79 1,2,3-Trichloropropane | 110 | 13.591 | 13.595 | (1.074) | 1886 | 12.5000 | 12 |
| 80 n-Propyl Benzene | 91 | 13.625 | 13.613 | (0.947) | 112316 | 12.5000 | 15 |
| 81 Bromobenzene | 156 | 13.643 | 13.630 | (1.078) | 17224 | 12.5000 | 14 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.730 | 13.735 | (0.954) | 65578 | 12.5000 | 15 |
| 83 2-Chlorotoluene | 126 | 13.747 | 13.752 | (0.955) | 19672 | 12.5000 | 15 |
| 84 4-Chlorotoluene | 126 | 13.834 | 13.822 | (0.961) | 19508 | 12.5000 | 14 |
| 85 tert-Butyl Benzene | 119 | 14.009 | 13.996 | (0.973) | 64819 | 12.5000 | 15 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.043 | 14.031 | (0.976) | 64676 | 12.5000 | 15 |
| 87 Pentachloroethane | 167 | 14.078 | 14.083 | (0.978) | 7663 | 12.5000 | 13 |
| 88 sec-Butyl Benzene | 105 | 14.165 | 14.170 | (0.984) | 97342 | 12.5000 | 15 |
| 89 p-Isopropyl Toluene | 119 | 14.252 | 14.257 | (0.990) | 72395 | 12.5000 | 15 |
| 90 1,3-Dichlorobenzene | 146 | 14.339 | 14.344 | (0.996) | 36759 | 12.5000 | 15 |
| 91 1,4-Dichlorobenzene | 146 | 14.409 | 14.414 | (1.001) | 36832 | 12.5000 | 15 |
| 92 n-Butyl Benzene | 91 | 14.601 | 14.588 | (1.015) | 80169 | 12.5000 | 15 |
| 93 1,2-Dichlorobenzene | 146 | 14.740 | 14.744 | (1.024) | 28000 | 12.5000 | 15 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.419 | 15.406 | (1.071) | 1526 | 12.5000 | 14 (M) |
| 95 1,2,4-Trichlorobenzene | 180 | 16.290 | 16.277 | (1.132) | 21077 | 12.5000 | 15 |
| 96 Hexachlorobutadiene | 225 | 16.394 | 16.399 | (1.139) | 13065 | 12.5000 | 17 |
| 97 Naphthalene | 128 | 16.586 | 16.590 | (1.152) | 25578 | 12.5000 | 15 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.899 | 16.886 | (1.174) | 15880 | 12.5000 | 15 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 34074 | 25.0000 | 26 |
| M 100 Xylene (total) | 106 | | | | 95432 | 12.5000 | 45 |

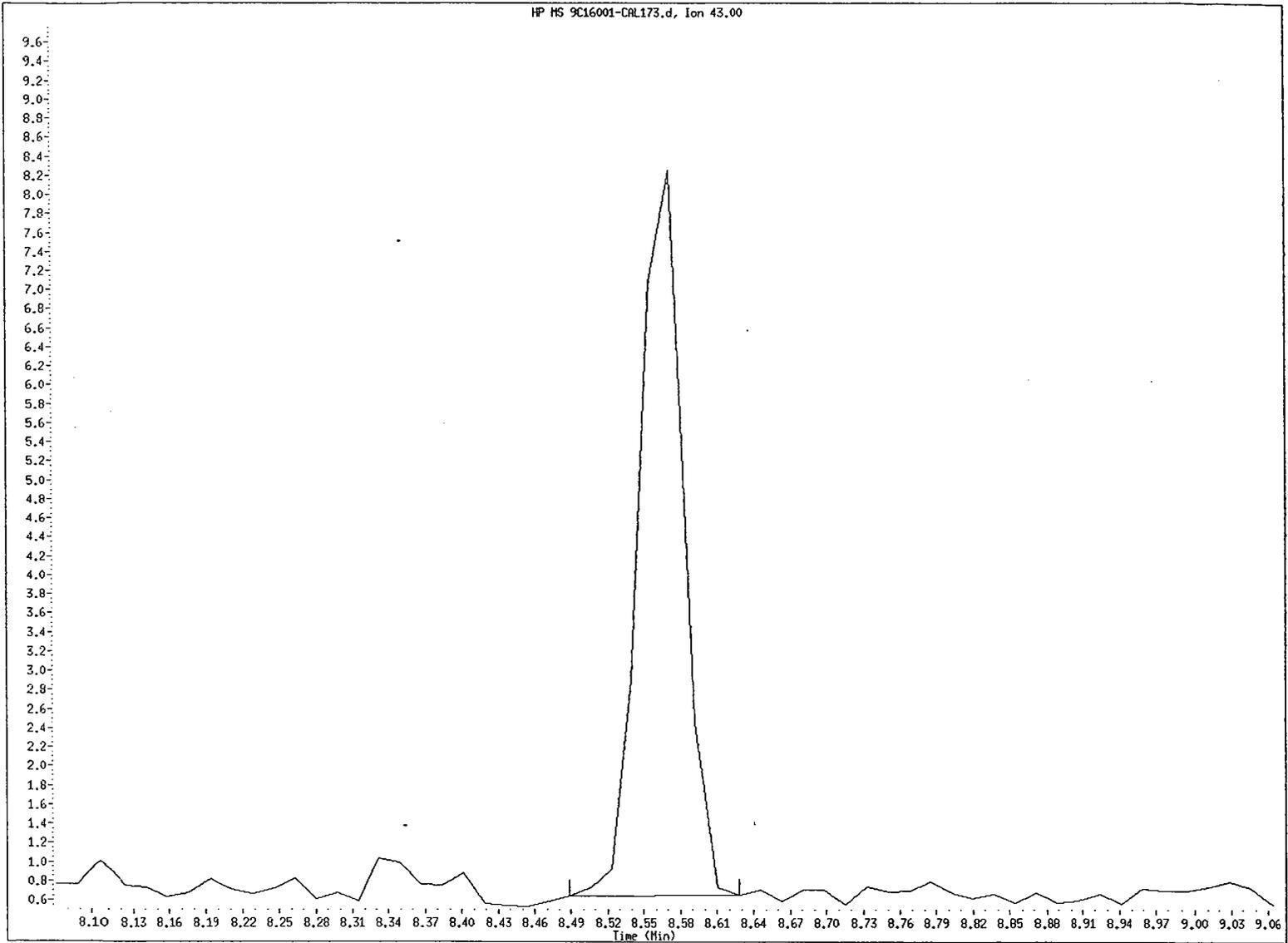
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QC Flag Legend

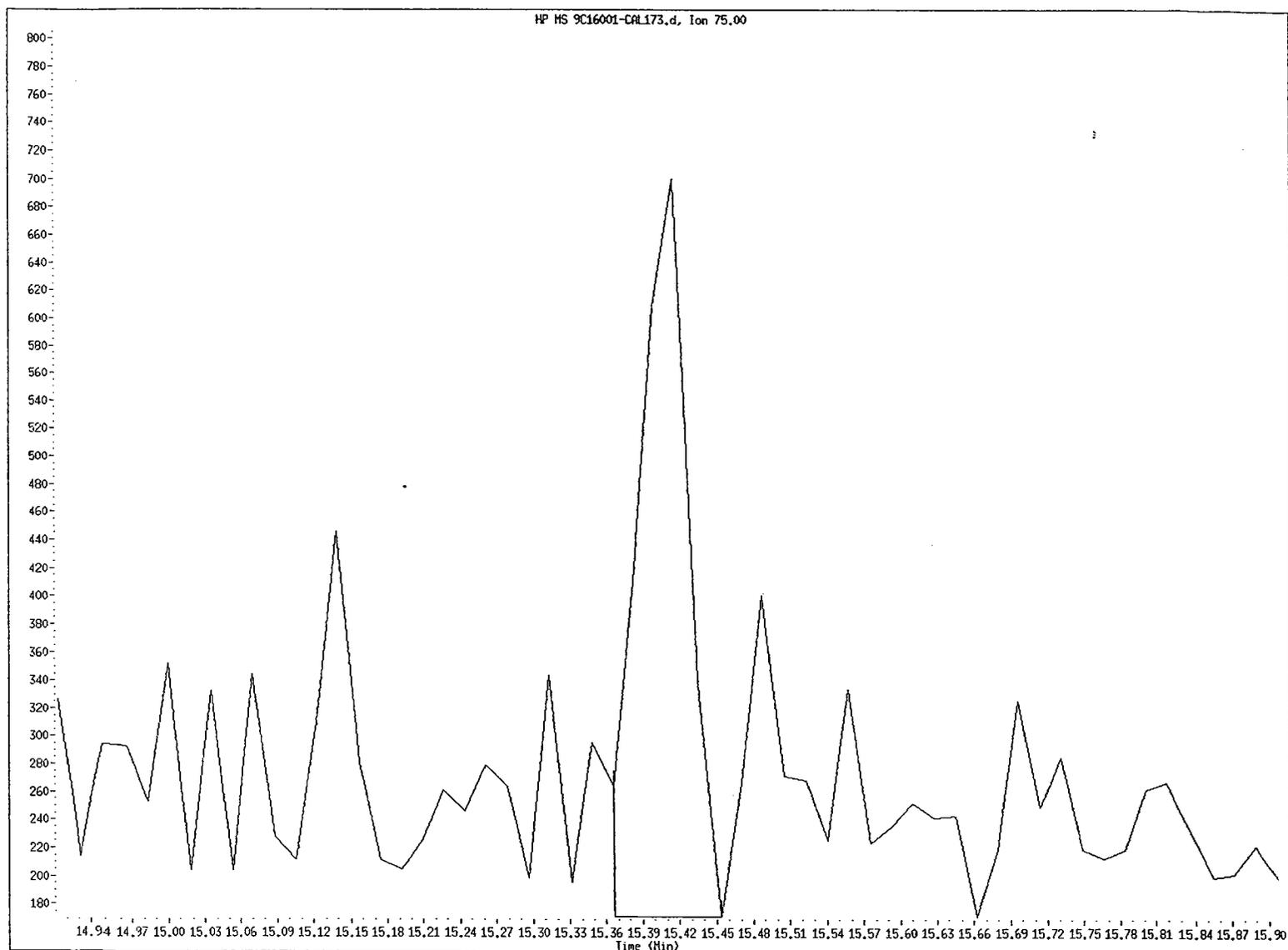
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Vinyl acetate CAS Number 108-05-4 Area = 19348 Manually integrated



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Instrument ID: 5972hp73.i
Injection Date and Time: 16-MAR-2009 11:26
Retention Time: 8.58
Operator ID: JAO



File name: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL173.d

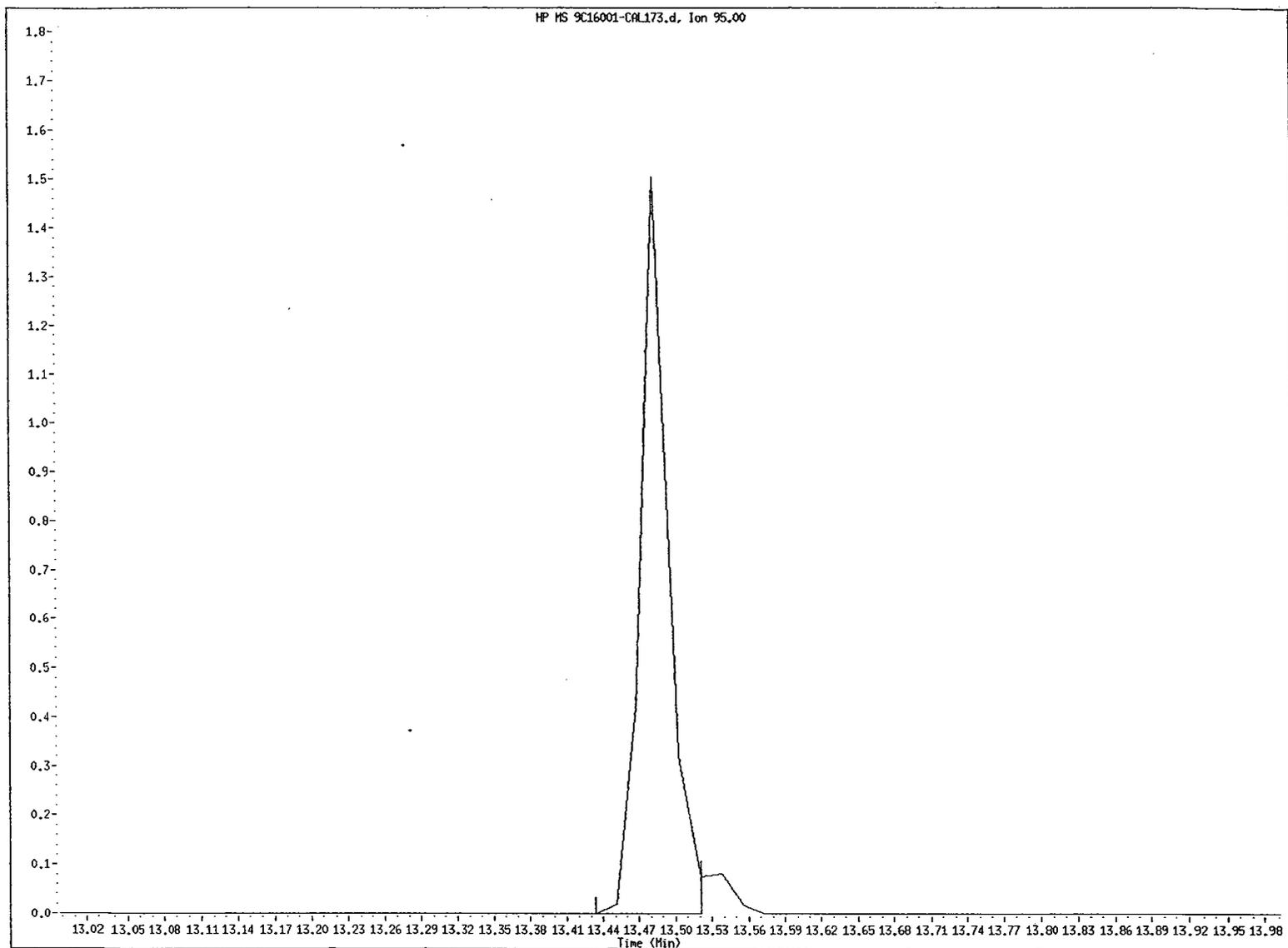
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Instrument ID: 5972hp73.i

Injection Date and Time: 16-MAR-2009 11:26

Retention Time: 15.42

Operator ID: JAO



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Client ID: VSTD0.5

Instrument ID: 5972hp73.i

Injection Date and Time: 16-MAR-2009 11:26

Retention Time: 13.49

Operator ID: JAO

Data File: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL273.d

Date: 16-MAR-2009 10:56

Client ID: VSTD001

Sample Info: 9C16001-CAL2:JAO

Purge Volume: 25.0

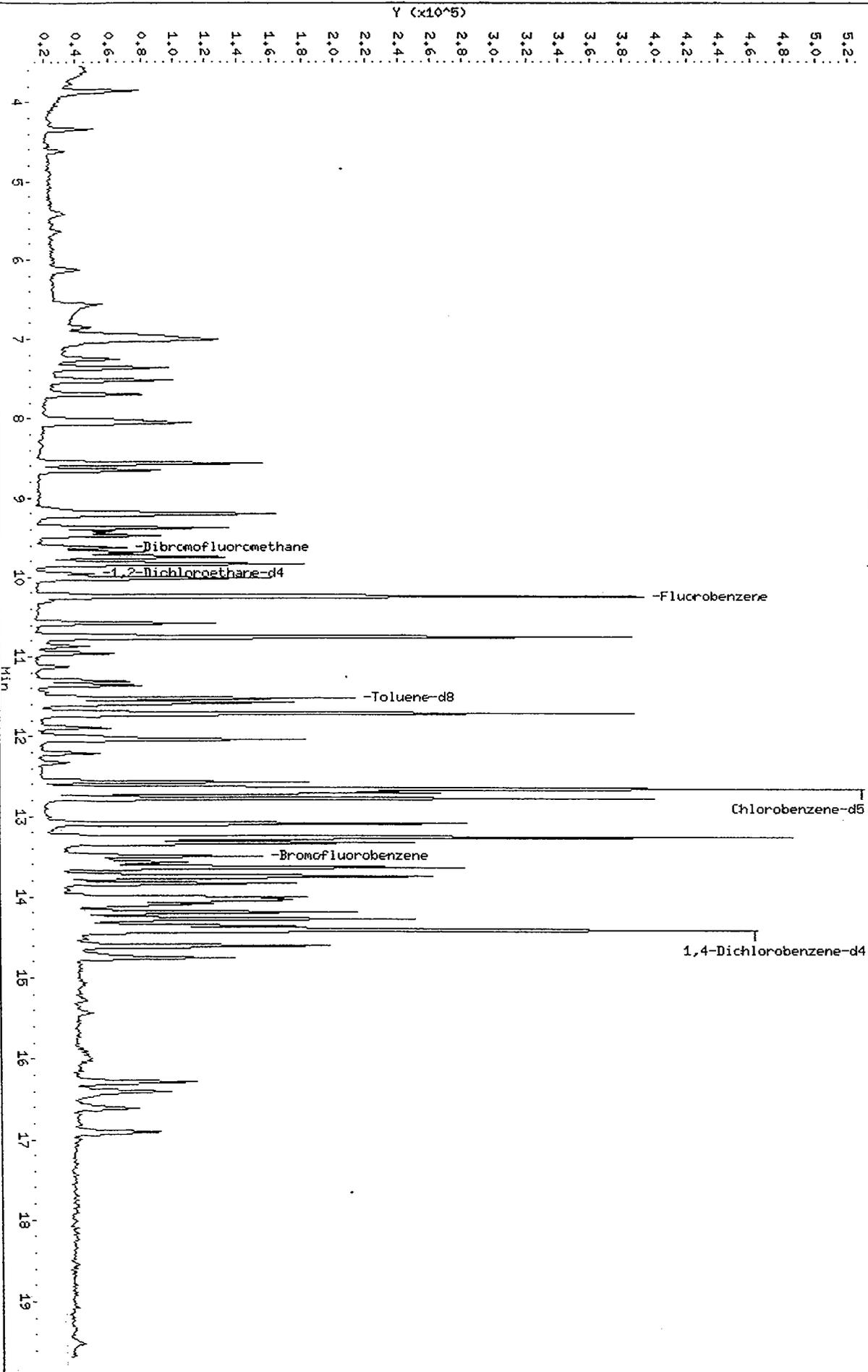
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Instrument: 5972hp73.i

Operator: JAO

Column diameter: 0.32

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CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL273.d
 Lab Smp Id: 9C16001-CAL2 Client Smp ID: VSTD001
 Inj Date : 16-MAR-2009 10:56
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C16001-CAL2:JAO
 Misc Info : VSTD001
 Comment :
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 Meth Date : 17-Mar-2009 13:04 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 10:56 Cal File: 9C16001-CAL273.d
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | | 96 | 10.250 | 10.235 | (1.000) | 419222 | 125.000 | |
| * 2 Chlorobenzene-d5 | | 117 | 12.653 | 12.655 | (1.000) | 282339 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | | 152 | 14.394 | 14.396 | (1.000) | 119193 | 125.000 | |
| \$ 4 Dibromofluoromethane | | 113 | 9.623 | 9.625 | (0.939) | 32806 | 25.0000 | 25 |
| \$ 5 1,2-Dichloroethane-d4 | | 65 | 9.954 | 9.956 | (0.971) | 22825 | 25.0000 | 25 |
| \$ 6 Toluene-d8 | | 98 | 11.521 | 11.523 | (0.911) | 126758 | 25.0000 | 25 |
| \$ 7 Bromofluorobenzene | | 95 | 13.489 | 13.491 | (0.937) | 45082 | 25.0000 | 25 |
| 8 Dichlorodifluoromethane | | 85 | 3.860 | 3.862 | (0.377) | 64516 | 25.0000 | 25 |
| 9 Chloromethane | | 50 | 4.330 | 4.332 | (0.422) | 34843 | 25.0000 | 25 |
| 10 Vinyl Chloride | | 62 | 4.609 | 4.611 | (0.450) | 16928 | 25.0000 | 25 |
| 11 Bromomethane | | 94 | 5.410 | 5.394 | (0.528) | 9307 | 25.0000 | 25 |
| 12 Chloroethane | | 64 | 5.636 | 5.620 | (0.550) | 6334 | 25.0000 | 25 |
| 13 Trichlorofluoromethane | | 101 | 6.123 | 6.125 | (0.597) | 23101 | 25.0000 | 25 |
| 14 Acrolein | | 56 | 6.837 | 6.839 | (0.667) | 16019 | 250.000 | 250 |
| 15 1,1,1-trichloro-2,2,2-trifluo | | 117 | 6.942 | 6.944 | (0.677) | 18318 | 25.0000 | 25 |
| 16 1,1,2-trichloro-1,2,2-trifluo | | 85 | 6.977 | 6.979 | (0.681) | 21718 | 25.0000 | 25 |

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| Compounds | QUANT SIG | | AMOUNTS | | | | |
|------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 17 1,1-Dichloroethene | 96 | 7.011 | 7.013 | (0.684) | 29527 | 25.0000 | 25 |
| 18 Acetone | 43 | 7.064 | 7.066 | (0.689) | 20154 | 125.000 | 130 |
| 19 Iodomethane | 142 | 7.255 | 7.240 | (0.708) | 48689 | 25.0000 | 25 |
| 20 Carbon disulfide | 76 | 7.360 | 7.362 | (0.718) | 121062 | 25.0000 | 25 |
| 22 3-Chloropropene | 39 | 7.516 | 7.518 | (0.733) | 36868 | 25.0000 | 25 |
| 23 Acetonitrile | 41 | 7.516 | 7.518 | (0.733) | 54886 | 25.0000 | 25 |
| 24 Methyl acetate | 43 | 7.516 | 7.518 | (0.733) | 20599 | 25.0000 | 25 |
| 25 Methylene Chloride | 84 | 7.708 | 7.693 | (0.752) | 33310 | 25.0000 | 25 |
| 26 Acrylonitrile | 53 | 8.004 | 7.989 | (0.781) | 35070 | 250.000 | 250 |
| 28 trans-1,2-Dichloroethene | 96 | 8.056 | 8.041 | (0.786) | 35394 | 25.0000 | 25 |
| 27 Methyl-tert-butyl ether | 73 | 8.021 | 8.023 | (0.783) | 41457 | 25.0000 | 25 |
| 30 Isopropyl ether | 45 | 8.561 | 8.563 | (0.835) | 97127 | 25.0000 | 25 |
| 31 Vinyl acetate | 43 | 8.561 | 8.563 | (0.835) | 39322 | 50.0000 | 50 (M) |
| 32 1,1-Dichloroethane | 63 | 8.561 | 8.563 | (0.835) | 59455 | 25.0000 | 25 |
| 33 Chloroprene | 53 | 8.648 | 8.650 | (0.844) | 54181 | 25.0000 | 25 |
| 34 2-butanone | 43 | 9.136 | 9.138 | (0.891) | 26305 | 125.000 | 130 |
| 35 2,2-Dichloropropane | 77 | 9.188 | 9.173 | (0.896) | 45942 | 25.0000 | 25 |
| 36 cis-1,2-Dichloroethene | 96 | 9.188 | 9.190 | (0.896) | 33144 | 25.0000 | 25 |
| 37 Propionitrile | 54 | 9.205 | 9.207 | (0.898) | 63115 | 1250.00 | 1300 |
| 38 Methacrylonitrile | 41 | 9.362 | 9.364 | (0.913) | 69892 | 250.000 | 250 |
| 39 Bromochloromethane | 128 | 9.432 | 9.416 | (0.920) | 12366 | 25.0000 | 25 |
| 40 Chloroform | 83 | 9.467 | 9.469 | (0.924) | 54546 | 25.0000 | 25 |
| 42 1,1,1-Trichloroethane | 97 | 9.675 | 9.677 | (0.944) | 47615 | 25.0000 | 25 |
| 43 Cyclohexane | 84 | 9.745 | 9.730 | (0.951) | 55802 | 25.0000 | 25 |
| 44 1,1-dichloropropene | 75 | 9.832 | 9.817 | (0.959) | 46823 | 25.0000 | 25 |
| 45 Isobutyl alcohol | 43 | 9.797 | 9.799 | (0.956) | 24206 | 1250.00 | 1300 |
| 46 Carbon Tetrachloride | 117 | 9.832 | 9.834 | (0.959) | 41023 | 25.0000 | 25 |
| 47 Benzene | 78 | 10.006 | 10.008 | (0.976) | 117168 | 25.0000 | 25 |
| 48 1,2-Dichloroethane | 62 | 10.024 | 10.026 | (0.978) | 23763 | 25.0000 | 25 |
| 49 Trichloroethene | 130 | 10.563 | 10.566 | (1.031) | 34701 | 25.0000 | 25 |
| 50 Methylcyclohexane | 83 | 10.738 | 10.740 | (1.048) | 57170 | 25.0000 | 25 |
| 51 1,2-Dichloropropane | 63 | 10.755 | 10.757 | (1.049) | 26094 | 25.0000 | 25 |
| 52 Methylmethacrylate | 69 | 10.738 | 10.740 | (1.048) | 86585 | 250.000 | 250 |
| 53 1,4-dioxane | 88 | 10.825 | 10.809 | (1.056) | 5098 | 1250.00 | 1300 |
| 54 Dibromomethane | 174 | 10.860 | 10.862 | (1.059) | 11163 | 25.0000 | 25 |
| 55 Bromodichloromethane | 83 | 10.947 | 10.949 | (1.068) | 34444 | 25.0000 | 25 |
| 56 2-chloroethyl vinyl ether | 63 | 11.138 | 11.123 | (1.087) | 9992 | 250.000 | 250 |
| 57 cis-1,3-Dichloropropene | 75 | 11.312 | 11.297 | (1.104) | 37999 | 25.0000 | 25 |
| 58 4-Methyl-2-pentanone | 43 | 11.364 | 11.349 | (0.898) | 57950 | 125.000 | 130 |
| 59 Toluene | 92 | 11.573 | 11.575 | (0.915) | 74766 | 25.0000 | 25 |
| 60 Ethylmethacrylate | 69 | 11.695 | 11.697 | (0.924) | 171416 | 250.000 | 250 |
| 61 trans-1,3-Dichloropropene | 75 | 11.730 | 11.715 | (0.927) | 29787 | 25.0000 | 25 |
| 62 1,1,2-Trichloroethane | 97 | 11.887 | 11.871 | (0.939) | 13890 | 25.0000 | 25 |
| 63 2-hexanone | 43 | 11.991 | 11.993 | (0.948) | 40303 | 125.000 | 130 |
| 64 1,3-Dichloropropane | 76 | 12.026 | 12.028 | (0.950) | 25720 | 25.0000 | 25 |
| 65 Tetrachloroethene | 164 | 12.026 | 12.028 | (0.950) | 27851 | 25.0000 | 25 |
| 66 Dibromochloromethane | 129 | 12.200 | 12.202 | (0.964) | 20040 | 25.0000 | 25 |

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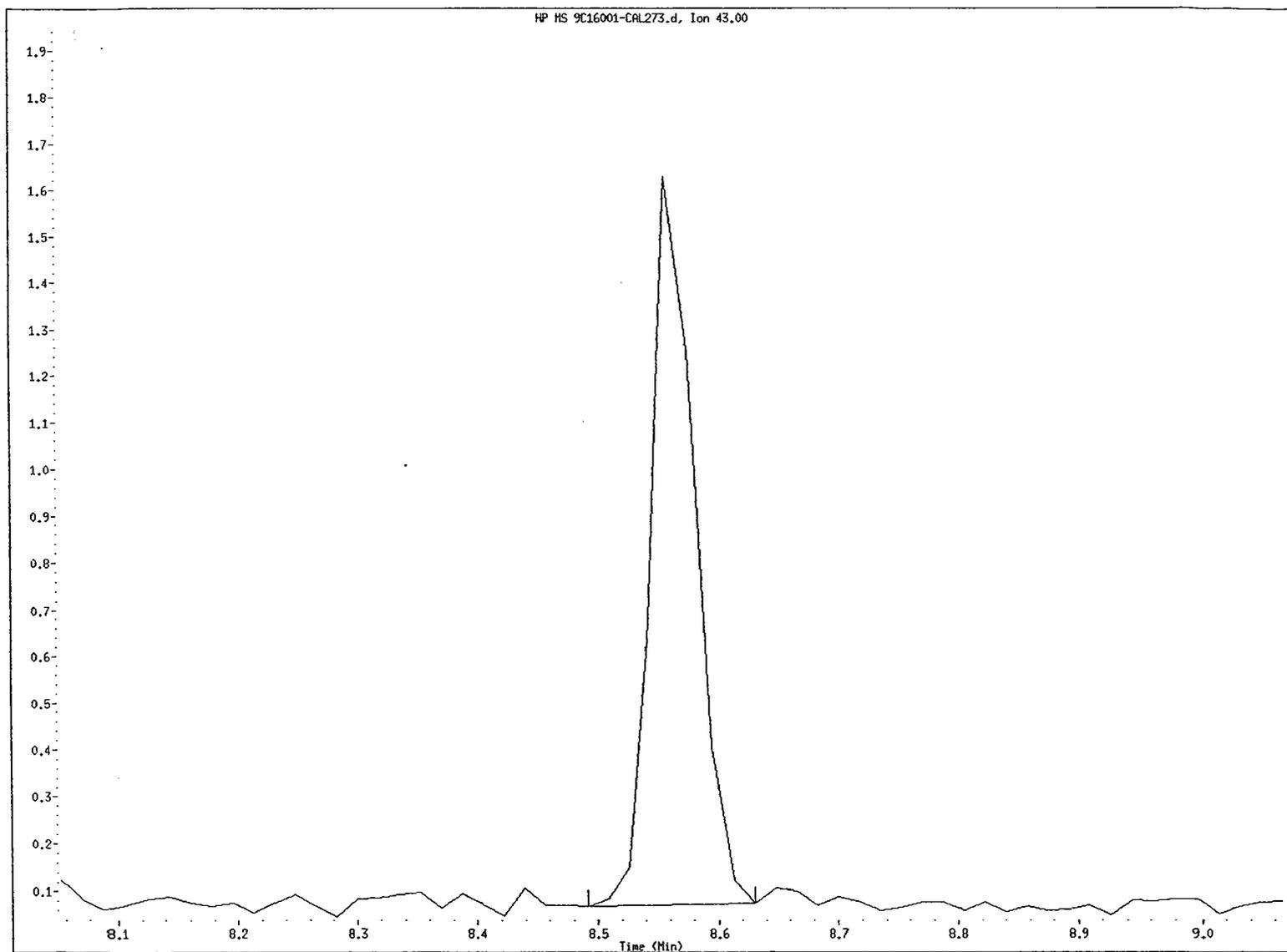
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| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 67 1,2-Dibromoethane | 107 | 12.322 | 12.324 | (0.974) | 13565 | 25.0000 | 25 |
| 68 1-Chlorohexane | 55 | 12.566 | 12.568 | (0.993) | 34084 | 25.0000 | 25 |
| 69 Chlorobenzene | 112 | 12.670 | 12.672 | (1.001) | 74339 | 25.0000 | 25 |
| 70 Ethylbenzene | 106 | 12.705 | 12.690 | (1.004) | 43892 | 25.0000 | 25 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.705 | 12.707 | (1.004) | 25661 | 25.0000 | 25 |
| 72 m,p-Xylene | 106 | 12.775 | 12.777 | (1.010) | 102419 | 50.0000 | 50 |
| 73 o-Xylene | 106 | 13.071 | 13.073 | (1.033) | 47614 | 25.0000 | 25 |
| 74 Styrene | 104 | 13.088 | 13.073 | (1.034) | 71324 | 25.0000 | 25 |
| 75 Bromoform | 173 | 13.280 | 13.264 | (1.050) | 10350 | 25.0000 | 25 |
| 76 Isopropyl Benzene | 105 | 13.315 | 13.317 | (1.052) | 133341 | 25.0000 | 25 |
| 77 1,1,2,2-Tetrachloroethane | .83 | 13.524 | 13.526 | (0.940) | 16382 | 25.0000 | 25 |
| 79 1,2,3-Trichloropropane | 110 | 13.593 | 13.595 | (1.074) | 4240 | 25.0000 | 25 |
| 80 n-Propyl Benzene | 91 | 13.628 | 13.613 | (0.947) | 164553 | 25.0000 | 25 |
| 81 Bromobenzene | 156 | 13.645 | 13.630 | (1.078) | 28571 | 25.0000 | 25 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.733 | 13.735 | (0.954) | 98965 | 25.0000 | 25 |
| 83 2-Chlorotoluene | 126 | 13.750 | 13.752 | (0.955) | 30363 | 25.0000 | 25 |
| 84 4-Chlorotoluene | 126 | 13.820 | 13.822 | (0.960) | 31120 | 25.0000 | 25 |
| 85 tert-Butyl Benzene | 119 | 13.994 | 13.996 | (0.972) | 98186 | 25.0000 | 25 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.046 | 14.031 | (0.976) | 95862 | 25.0000 | 25 |
| 87 Pentachloroethane | 167 | 14.081 | 14.083 | (0.978) | 15787 | 25.0000 | 25 |
| 88 sec-Butyl Benzene | 105 | 14.168 | 14.170 | (0.984) | 139501 | 25.0000 | 25 |
| 89 p-Isopropyl Toluene | 119 | 14.255 | 14.257 | (0.990) | 105752 | 25.0000 | 25 |
| 90 1,3-Dichlorobenzene | 146 | 14.342 | 14.344 | (0.996) | 57671 | 25.0000 | 25 |
| 91 1,4-Dichlorobenzene | 146 | 14.412 | 14.414 | (1.001) | 57911 | 25.0000 | 25 |
| 92 n-Butyl Benzene | 91 | 14.586 | 14.588 | (1.013) | 110844 | 25.0000 | 25 |
| 93 1,2-Dichlorobenzene | 146 | 14.742 | 14.744 | (1.024) | 44525 | 25.0000 | 25 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.404 | 15.406 | (1.070) | 2548 | 25.0000 | 25 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.275 | 16.277 | (1.131) | 31881 | 25.0000 | 25 |
| 96 Hexachlorobutadiene | 225 | 16.397 | 16.399 | (1.139) | 14488 | 25.0000 | 25 |
| 97 Naphthalene | 128 | 16.588 | 16.590 | (1.152) | 40792 | 25.0000 | 25 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.902 | 16.886 | (1.174) | 24794 | 25.0000 | 25 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 68538 | 50.0000 | 50 |
| M 100 Xylene (total) | 106 | | | | 150033 | 25.0000 | 79 |

QC Flag Legend

M - Compound response manually integrated.

Vinyl, acetate CAS Number 108-05-4 Area = 39322 Manually integrated



File name: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL273.d

Client ID: VSTD001

Instrument ID: 5972hp73.i

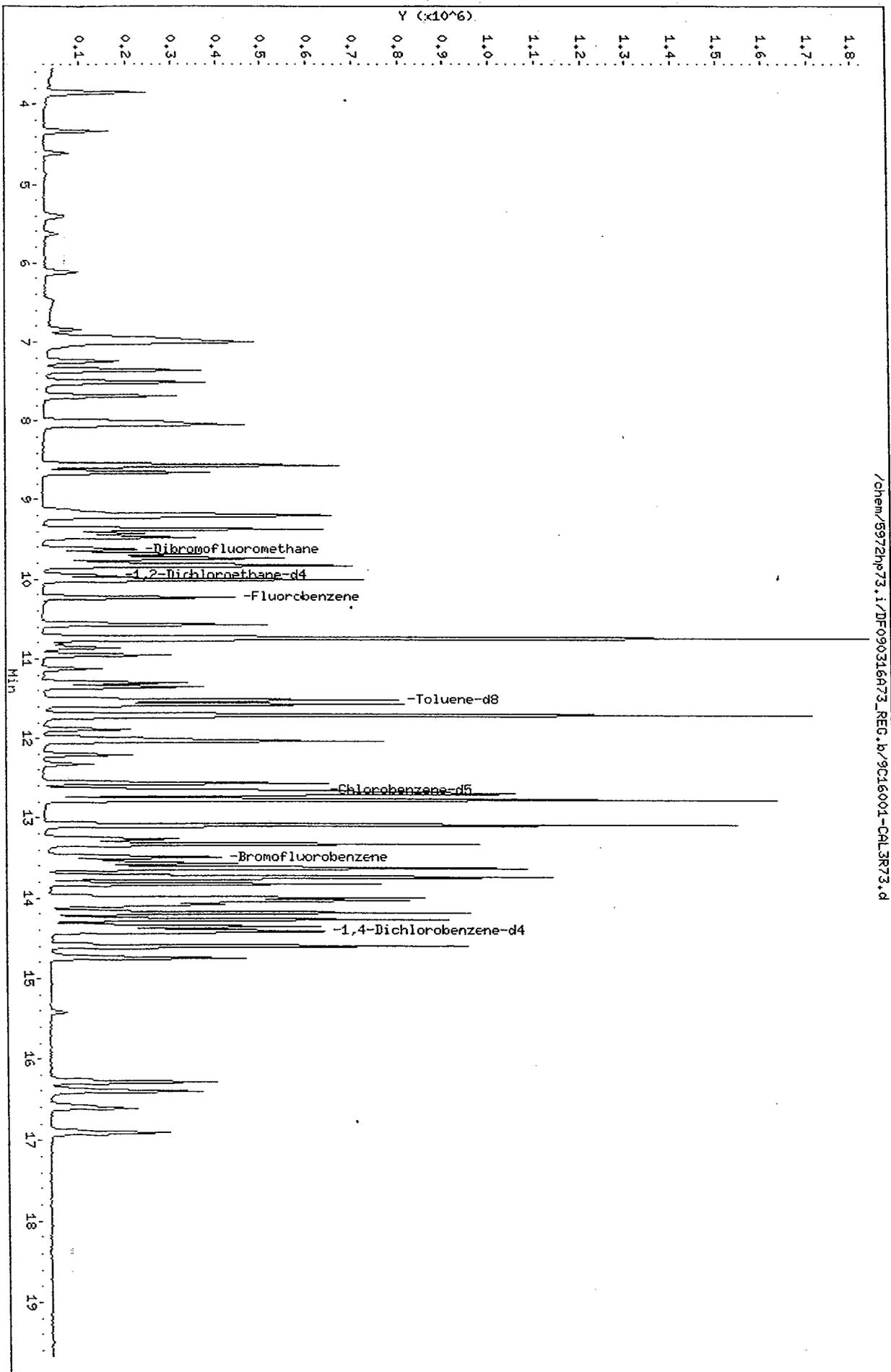
Injection Date and Time: 16-MAR-2009 10:56

Retention Time: 8.56

Operator ID: JAO

Data File: /chem/5972hp73.i/DF090316A73_REC.b/9C16001-CAL3R73.d
Date: 16-MAR-2009 12:53
Client ID: VSTD005
Sample Info: 9C16001-CAL3:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL3R73.d
 Report Date: 18-Mar-2009 13:00

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL3R73.d
 Lab Smp Id: 9C16001-CAL3 Client Smp ID: VSTD005
 Inj Date : 16-MAR-2009 12:53
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C16001-CAL3:JAO
 Misc Info : VSTD005
 Comment :
 Method : /chem/5972hp73.i/DF090316A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 17-Mar-2009 13:04 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 7 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | 10.235 | 10.235 | (1.000) | 387710 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | 12.655 | 12.655 | (1.000) | 246287 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.396 | 14.396 | (1.000) | 112844 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | 9.625 | 9.625 | (0.940) | 148890 | 125.000 | 120 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | 9.956 | 9.956 | (0.973) | 98968 | 125.000 | 120 |
| \$ 6 Toluene-d8 | 98 | 11.523 | 11.523 | (0.911) | 496239 | 125.000 | 120 |
| \$ 7 Bromofluorobenzene | 95 | 13.491 | 13.491 | (0.937) | 164377 | 125.000 | 110(M) |
| 8 Dichlorodifluoromethane | 85 | 3.862 | 3.862 | (0.377) | 270064 | 125.000 | 120 |
| 9 Chloromethane | 50 | 4.332 | 4.332 | (0.423) | 159228 | 125.000 | 120 |
| 10 Vinyl Chloride | 62 | 4.611 | 4.611 | (0.450) | 76656 | 125.000 | 120 |
| 11 Bromomethane | 94 | 5.394 | 5.394 | (0.527) | 42925 | 125.000 | 130 |
| 12 Chloroethane | 64 | 5.620 | 5.620 | (0.549) | 29399 | 125.000 | 120 |
| 13 Trichlorofluoromethane | 101 | 6.125 | 6.125 | (0.598) | 102617 | 125.000 | 120 |
| 14 Acrolein | 56 | 6.839 | 6.839 | (0.668) | 81345 | 1250.00 | 1300 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | 6.944 | 6.944 | (0.678) | 86221 | 125.000 | 120 |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | 6.979 | 6.979 | (0.682) | 94479 | 125.000 | 120 |

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| Compounds | QUANT SIG | | AMOUNTS | | | | |
|------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 17 1,1-Dichloroethene | 96 | 7.013 | 7.013 | (0.685) | 150262 | 125.000 | 130 |
| 18 Acetone | 43 | 7.066 | 7.066 | (0.690) | 72423 | 625.000 | 550 |
| 19 Iodomethane | 142 | 7.240 | 7.240 | (0.707) | 225798 | 125.000 | 130 |
| 20 Carbon disulfide | 76 | 7.362 | 7.362 | (0.719) | 571268 | 125.000 | 120 |
| 22 3-Chloropropene | 39 | 7.518 | 7.518 | (0.735) | 164206 | 125.000 | 120 |
| 23 Acetonitrile | 41 | 7.518 | 7.518 | (0.735) | 241782 | 125.000 | 120 |
| 24 Methyl acetate | 43 | 7.518 | 7.518 | (0.735) | 103522 | 125.000 | 120 |
| 25 Methylene Chloride | 84 | 7.693 | 7.693 | (0.752) | 136583 | 125.000 | 120 |
| 26 Acrylonitrile | 53 | 7.989 | 7.989 | (0.781) | 168150 | 1250.00 | 1300 |
| 28 trans-1,2-Dichloroethene | 96 | 8.041 | 8.041 | (0.786) | 166215 | 125.000 | 120 |
| 27 Methyl-tert-butyl ether | 73 | 8.023 | 8.023 | (0.784) | 199254 | 125.000 | 120 |
| 30 Isopropyl ether | 45 | 8.563 | 8.563 | (0.837) | 467172 | 125.000 | 130 |
| 31 Vinyl acetate | 43 | 8.563 | 8.563 | (0.837) | 180432 | 250.000 | 250 (M) |
| 32 1,1-Dichloroethane | 63 | 8.563 | 8.563 | (0.837) | 276017 | 125.000 | 120 |
| 33 Chloroprene | 53 | 8.650 | 8.650 | (0.845) | 237532 | 125.000 | 120 |
| 34 2-butanone | 43 | 9.138 | 9.138 | (0.893) | 119825 | 625.000 | 620 |
| 35 2,2-Dichloropropane | 77 | 9.173 | 9.173 | (0.896) | 211102 | 125.000 | 120 |
| 36 cis-1,2-Dichloroethene | 96 | 9.190 | 9.190 | (0.898) | 153328 | 125.000 | 120 |
| 37 Propionitrile | 54 | 9.207 | 9.207 | (0.900) | 308672 | 6250.00 | 6600 |
| 38 Methacrylonitrile | 41 | 9.364 | 9.364 | (0.915) | 347732 | 1250.00 | 1300 |
| 39 Bromochloromethane | 128 | 9.416 | 9.416 | (0.920) | 54519 | 125.000 | 120 |
| 40 Chloroform | 83 | 9.469 | 9.469 | (0.925) | 254510 | 125.000 | 120 |
| 42 1,1,1-Trichloroethane | 97 | 9.677 | 9.677 | (0.946) | 223745 | 125.000 | 120 |
| 43 Cyclohexane | 84 | 9.730 | 9.730 | (0.951) | 224906 | 125.000 | 110 |
| 44 1,1-dichloropropene | 75 | 9.817 | 9.817 | (0.959) | 225740 | 125.000 | 120 |
| 45 Isobutyl alcohol | 43 | 9.799 | 9.799 | (0.957) | 113383 | 6250.00 | 6600 |
| 46 Carbon Tetrachloride | 117 | 9.834 | 9.834 | (0.961) | 199441 | 125.000 | 120 |
| 47 Benzene | 78 | 10.008 | 10.008 | (0.978) | 557491 | 125.000 | 120 |
| 48 1,2-Dichloroethane | 62 | 10.026 | 10.026 | (0.980) | 114878 | 125.000 | 120 |
| 49 Trichloroethene | 130 | 10.566 | 10.566 | (1.032) | 162095 | 125.000 | 120 |
| 50 Methylcyclohexane | 83 | 10.740 | 10.740 | (1.049) | 247978 | 125.000 | 120 |
| 51 1,2-Dichloropropane | 63 | 10.757 | 10.757 | (1.051) | 126925 | 125.000 | 130 |
| 52 Methylmethacrylate | 69 | 10.740 | 10.740 | (1.049) | 428911 | 1250.00 | 1300 |
| 53 1,4-dioxane | 88 | 10.809 | 10.809 | (1.056) | 24074 | 6250.00 | 6500 |
| 54 Dibromomethane | 174 | 10.862 | 10.862 | (1.061) | 53675 | 125.000 | 120 |
| 55 Bromodichloromethane | 83 | 10.949 | 10.949 | (1.070) | 166072 | 125.000 | 120 |
| 56 2-chloroethyl vinyl ether | 63 | 11.123 | 11.123 | (1.087) | 53076 | 1250.00 | 1300 |
| 57 cis-1,3-Dichloropropene | 75 | 11.297 | 11.297 | (1.104) | 179223 | 125.000 | 130 |
| 58 4-Methyl-2-pentanone | 43 | 11.349 | 11.349 | (0.897) | 286808 | 625.000 | 670 |
| 59 Toluene | 92 | 11.575 | 11.575 | (0.915) | 335686 | 125.000 | 120 |
| 60 Ethylmethacrylate | 69 | 11.697 | 11.697 | (0.924) | 844864 | 1250.00 | 1400 |
| 61 trans-1,3-Dichloropropene | 75 | 11.715 | 11.715 | (0.926) | 136409 | 125.000 | 130 |
| 62 1,1,2-Trichloroethane | 97 | 11.871 | 11.871 | (0.938) | 68049 | 125.000 | 130 |
| 63 2-hexanone | 43 | 11.993 | 11.993 | (0.948) | 202793 | 625.000 | 680 |
| 64 1,3-Dichloropropane | 76 | 12.028 | 12.028 | (0.950) | 121366 | 125.000 | 130 |
| 65 Tetrachloroethene | 164 | 12.028 | 12.028 | (0.950) | 127903 | 125.000 | 130 |
| 66 Dibromochloromethane | 129 | 12.202 | 12.202 | (0.964) | 97061 | 125.000 | 130 |

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| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 67 1,2-Dibromoethane | 107 | 12.324 | 12.324 | (0.974) | 70381 | 125.000 | 130 |
| 68 1-Chlorohexane | 55 | 12.568 | 12.568 | (0.993) | 144495 | 125.000 | 120 |
| 69 Chlorobenzene | 112 | 12.672 | 12.672 | (1.001) | 341589 | 125.000 | 130 |
| 70 Ethylbenzene | 106 | 12.690 | 12.690 | (1.003) | 196940 | 125.000 | 130 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.707 | 12.707 | (1.004) | 120142 | 125.000 | 130 |
| 72 m,p-Xylene | 106 | 12.777 | 12.777 | (1.010) | 482964 | 250.000 | 260 |
| 73 o-Xylene | 106 | 13.073 | 13.073 | (1.033) | 225900 | 125.000 | 130 |
| 74 Styrene | 104 | 13.073 | 13.073 | (1.033) | 359719 | 125.000 | 130 |
| 75 Bromoform | 173 | 13.264 | 13.264 | (1.048) | 52820 | 125.000 | 130 |
| 76 Isopropyl Benzene | 105 | 13.317 | 13.317 | (1.052) | 619517 | 125.000 | 130 |
| 77 1,1,2,2-Tetrachloroethane | .83 | 13.526 | 13.526 | (0.940) | 79952 | 125.000 | 120 |
| 79 1,2,3-Trichloropropane | 110 | 13.595 | 13.595 | (1.074) | 17933 | 125.000 | 130 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.560 | 13.560 | (1.072) | 81364 | 500.000 | 540 |
| 80 n-Propyl Benzene | 91 | 13.613 | 13.613 | (0.946) | 778460 | 125.000 | 120 |
| 81 Bromobenzene | 156 | 13.630 | 13.630 | (1.077) | 133610 | 125.000 | 130 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.735 | 13.735 | (0.954) | 480342 | 125.000 | 120 |
| 83 2-Chlorotoluene | 126 | 13.752 | 13.752 | (0.955) | 147203 | 125.000 | 120 |
| 84 4-Chlorotoluene | 126 | 13.822 | 13.822 | (0.960) | 146930 | 125.000 | 120 |
| 85 tert-Butyl Benzene | 119 | 13.996 | 13.996 | (0.972) | 464179 | 125.000 | 120 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.031 | 14.031 | (0.975) | 467254 | 125.000 | 120 |
| 87 Pentachloroethane | 167 | 14.083 | 14.083 | (0.978) | 78926 | 125.000 | 130 |
| 88 sec-Butyl Benzene | 105 | 14.170 | 14.170 | (0.984) | 698524 | 125.000 | 130 |
| 89 p-Isopropyl Toluene | 119 | 14.257 | 14.257 | (0.990) | 533669 | 125.000 | 130 |
| 90 1,3-Dichlorobenzene | 146 | 14.344 | 14.344 | (0.996) | 265750 | 125.000 | 120 |
| 91 1,4-Dichlorobenzene | 146 | 14.414 | 14.414 | (1.001) | 259935 | 125.000 | 120 |
| 92 n-Butyl Benzene | 91 | 14.588 | 14.588 | (1.013) | 559099 | 125.000 | 130 |
| 93 1,2-Dichlorobenzene | 146 | 14.744 | 14.744 | (1.024) | 208990 | 125.000 | 120 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.406 | 15.406 | (1.070) | 9774 | 125.000 | 110 (M) |
| 95 1,2,4-Trichlorobenzene | 180 | 16.277 | 16.277 | (1.131) | 148928 | 125.000 | 120 |
| 96 Hexachlorobutadiene | 225 | 16.399 | 16.399 | (1.139) | 89397 | 125.000 | 130 |
| 97 Naphthalene | 128 | 16.590 | 16.590 | (1.152) | 198427 | 125.000 | 130 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.886 | 16.886 | (1.173) | 117681 | 125.000 | 130 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 319543 | 250.000 | 250 |
| M 100 Xylene (total) | 106 | | | | 708864 | 125.000 | 400 |

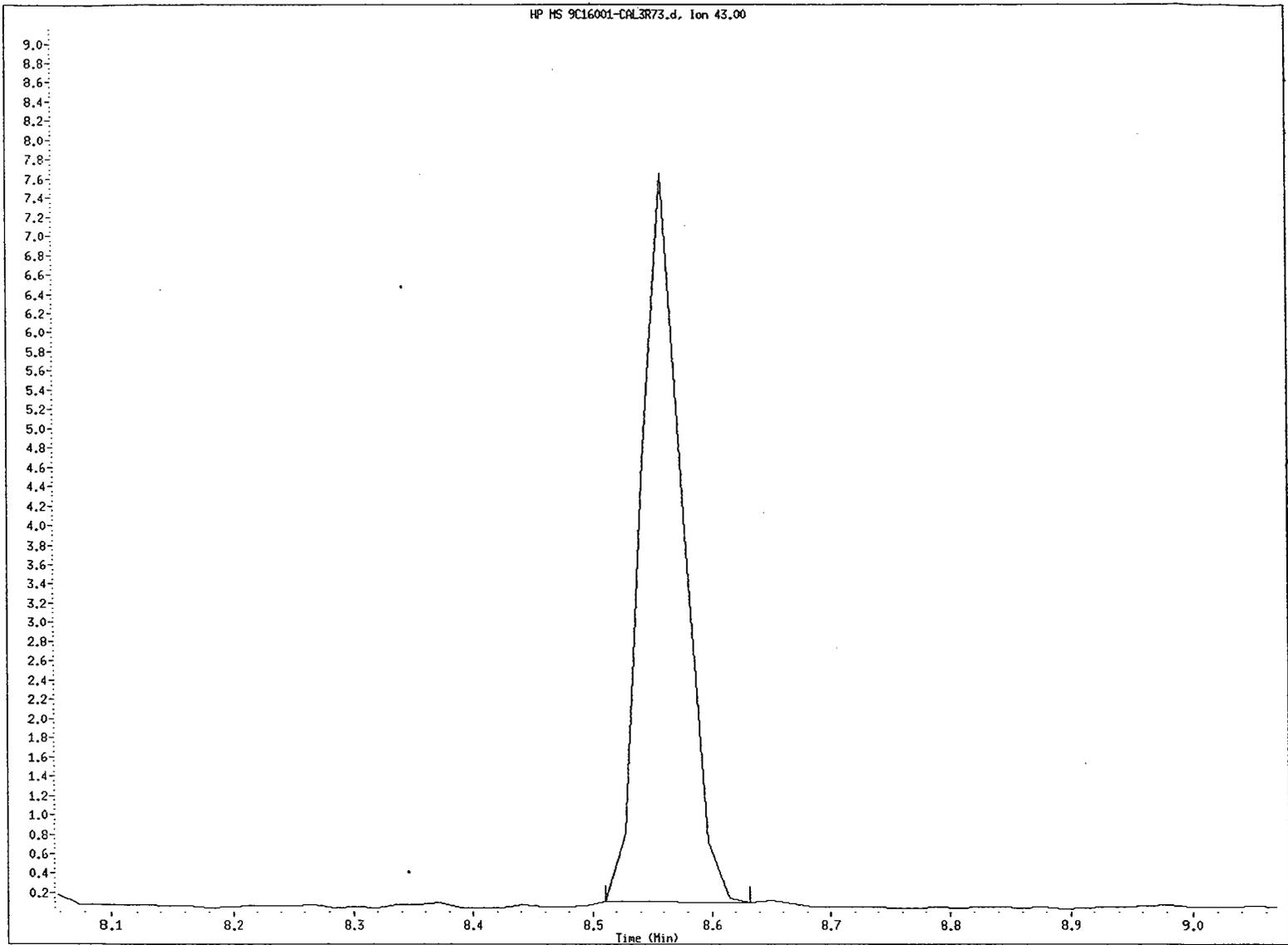
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QC Flag Legend

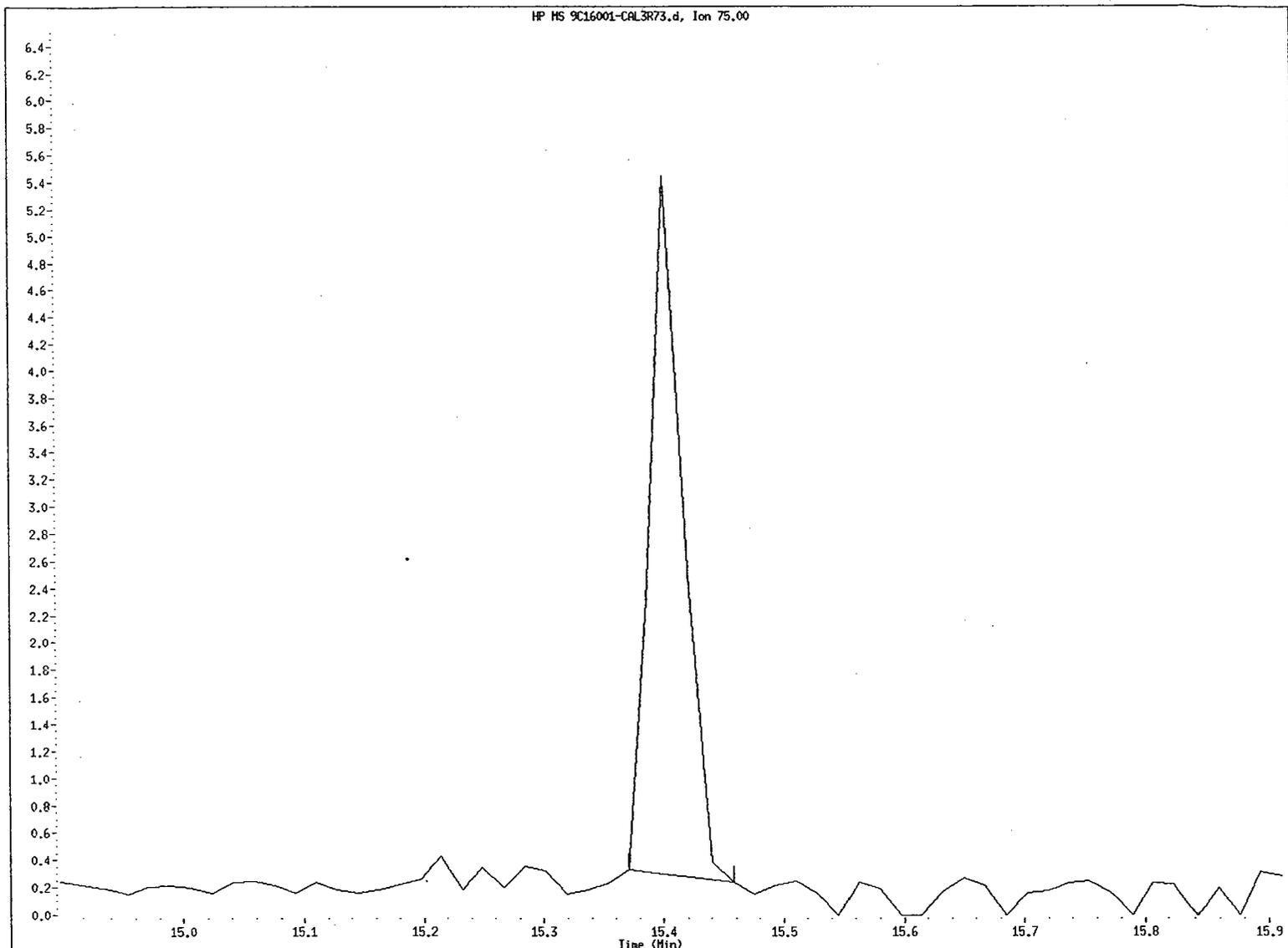
M - Compound response manually integrated.

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 3-18-09

Vinyl acetate CAS Number 108-05-4 Area = 180432 Manually integrated



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Client ID: VSTD005
Instrument ID: 5972hp73.i
Injection Date and Time: 16-MAR-2009 12:53
Retention Time: 8.56
Operator ID: JAO



File name: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL3R73.d

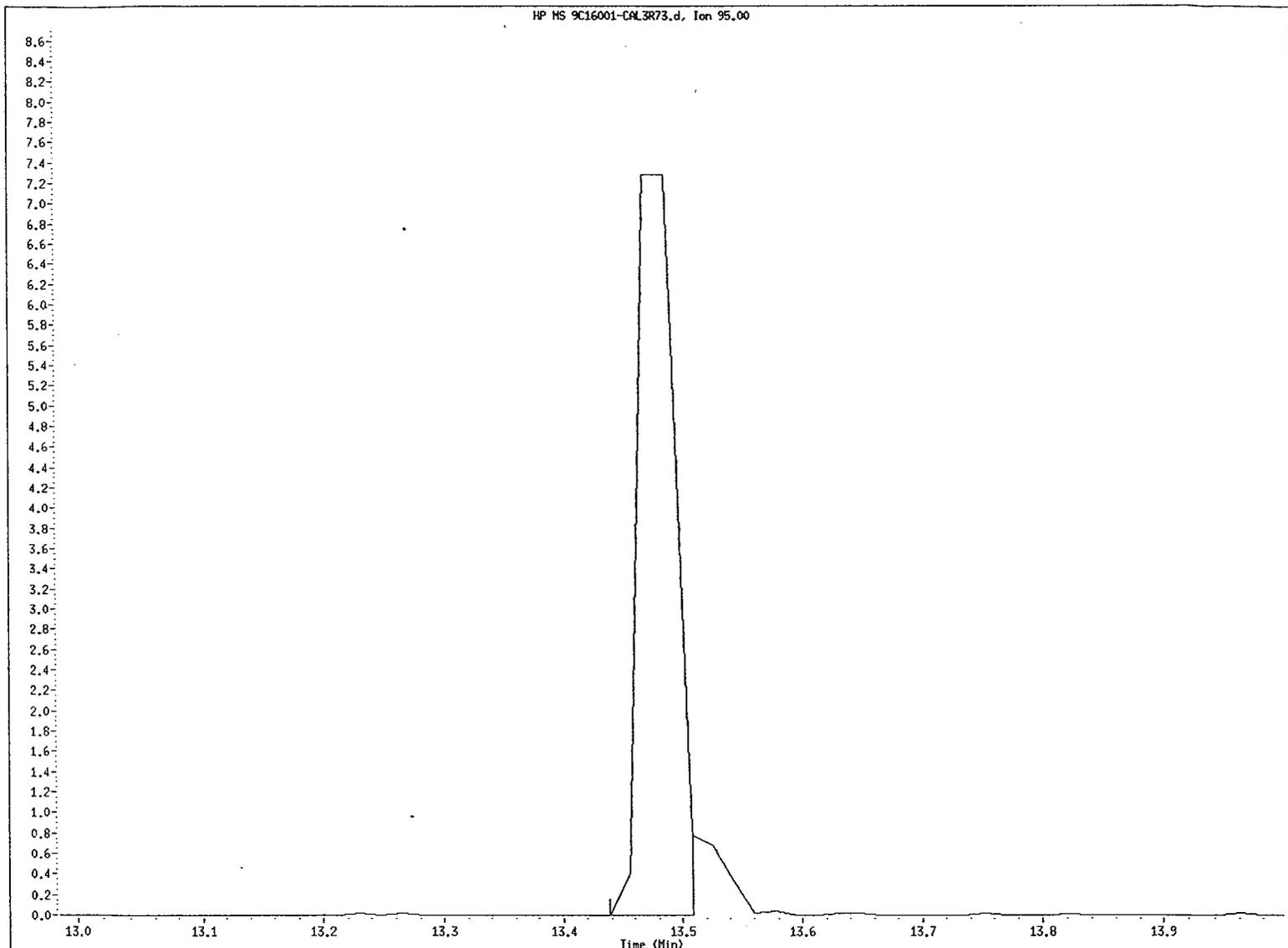
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Instrument ID: 5972hp73.i

Injection Date and Time: 16-MAR-2009 12:53

Retention Time: 15.41

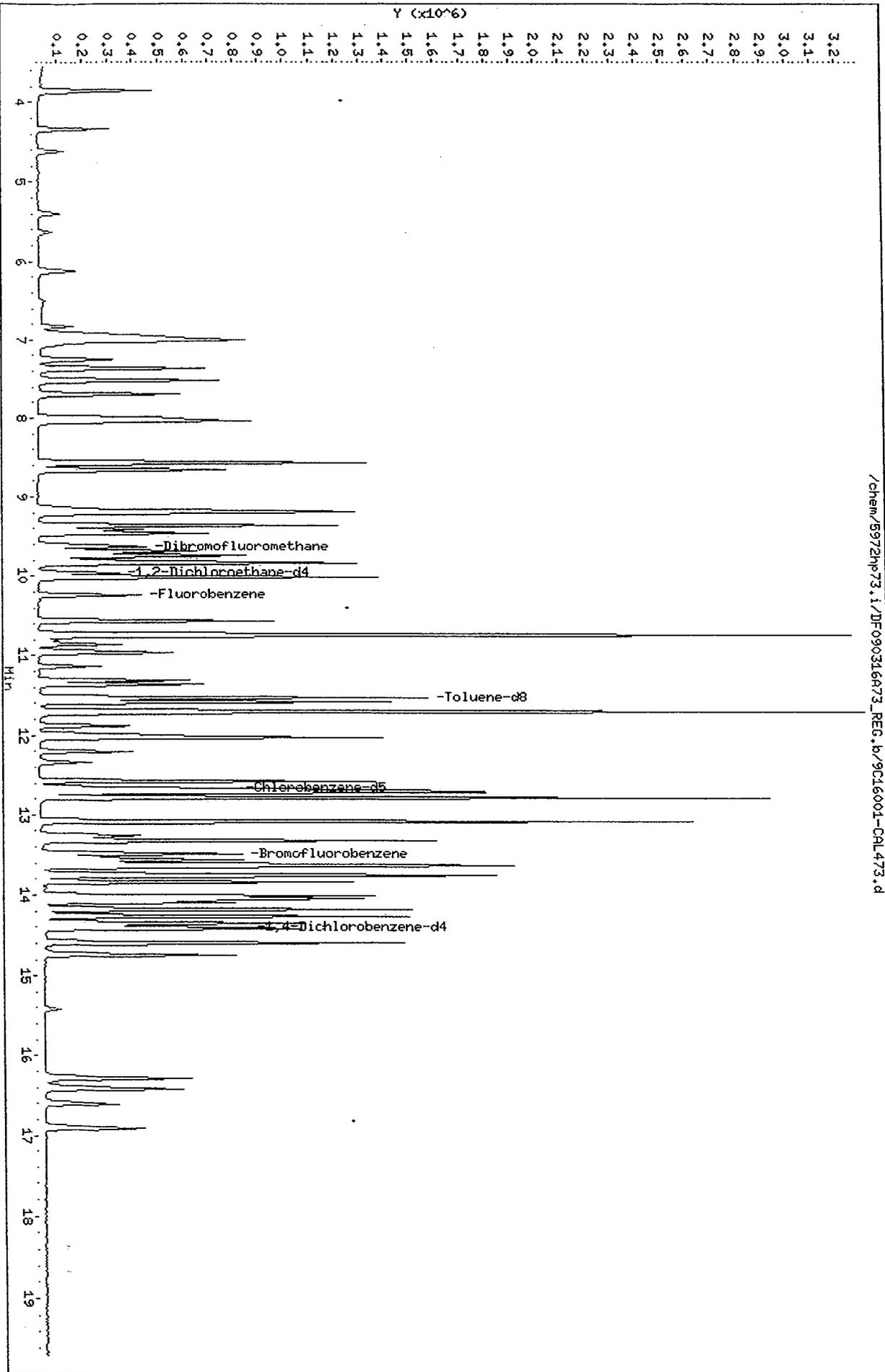
Operator ID: JAO



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Client ID: VSTD005
Instrument ID: 5972hp73.i
Injection Date and Time: 16-MAR-2009 12:53
Retention Time: 13.49
Operator ID: JAO

Data File: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL473.d
Date: 16-MAR-2009 11:55
Client ID: VSTD010
Sample Info: 9C16001-CAL4:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL473.d
 Lab Smp Id: 9C16001-CAL4 Client Smp ID: VSTD010
 Inj Date : 16-MAR-2009 11:55
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C16001-CAL4:JAO
 Misc Info : VSTD010
 Comment :
 Method : /chem/5972hp73.i/DF090316A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 17-Mar-2009 13:04 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 11:55 Cal File: 9C16001-CAL473.d
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|--------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | 10.235 | 10.235 | (1.000) | 384021 | 125.000 | | |
| * 2 Chlorobenzene-d5 | 117 | 12.655 | 12.655 | (1.000) | 252848 | 125.000 | | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.396 | 14.396 | (1.000) | 115639 | 125.000 | | |
| \$ 4 Dibromofluoromethane | 113 | 9.626 | 9.625 | (0.940) | 290258 | 250.000 | 230 | |
| \$ 5 1,2-Dichloroethane-d4 | 65 | 9.956 | 9.956 | (0.973) | 198887 | 250.000 | 230 | |
| \$ 6 Toluene-d8 | 98 | 11.523 | 11.523 | (0.911) | 970330 | 250.000 | 220 | |
| \$ 7 Bromofluorobenzene | 95 | 13.491 | 13.491 | (0.937) | 323752 | 250.000 | 190 (M) | |
| 8 Dichlorodifluoromethane | 85 | 3.862 | 3.862 | (0.377) | 534550 | 250.000 | 230 | |
| 9 Chloromethane | 50 | 4.332 | 4.332 | (0.423) | 305888 | 250.000 | 240 | |
| 10 Vinyl Chloride | 62 | 4.611 | 4.611 | (0.450) | 142335 | 250.000 | 230 | |
| 11 Bromomethane | 94 | 5.412 | 5.394 | (0.529) | 82598 | 250.000 | 250 | |
| 12 Chloroethane | 64 | 5.621 | 5.620 | (0.549) | 60051 | 250.000 | 240 | |
| 13 Trichlorofluoromethane | 101 | 6.126 | 6.125 | (0.599) | 199103 | 250.000 | 240 | |
| 14 Acrolein | 56 | 6.840 | 6.839 | (0.668) | 145494 | 2500.00 | 2400 | |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | 6.944 | 6.944 | (0.678) | 146206 | 250.000 | 200 | |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | 6.979 | 6.979 | (0.682) | 162451 | 250.000 | 190 | |

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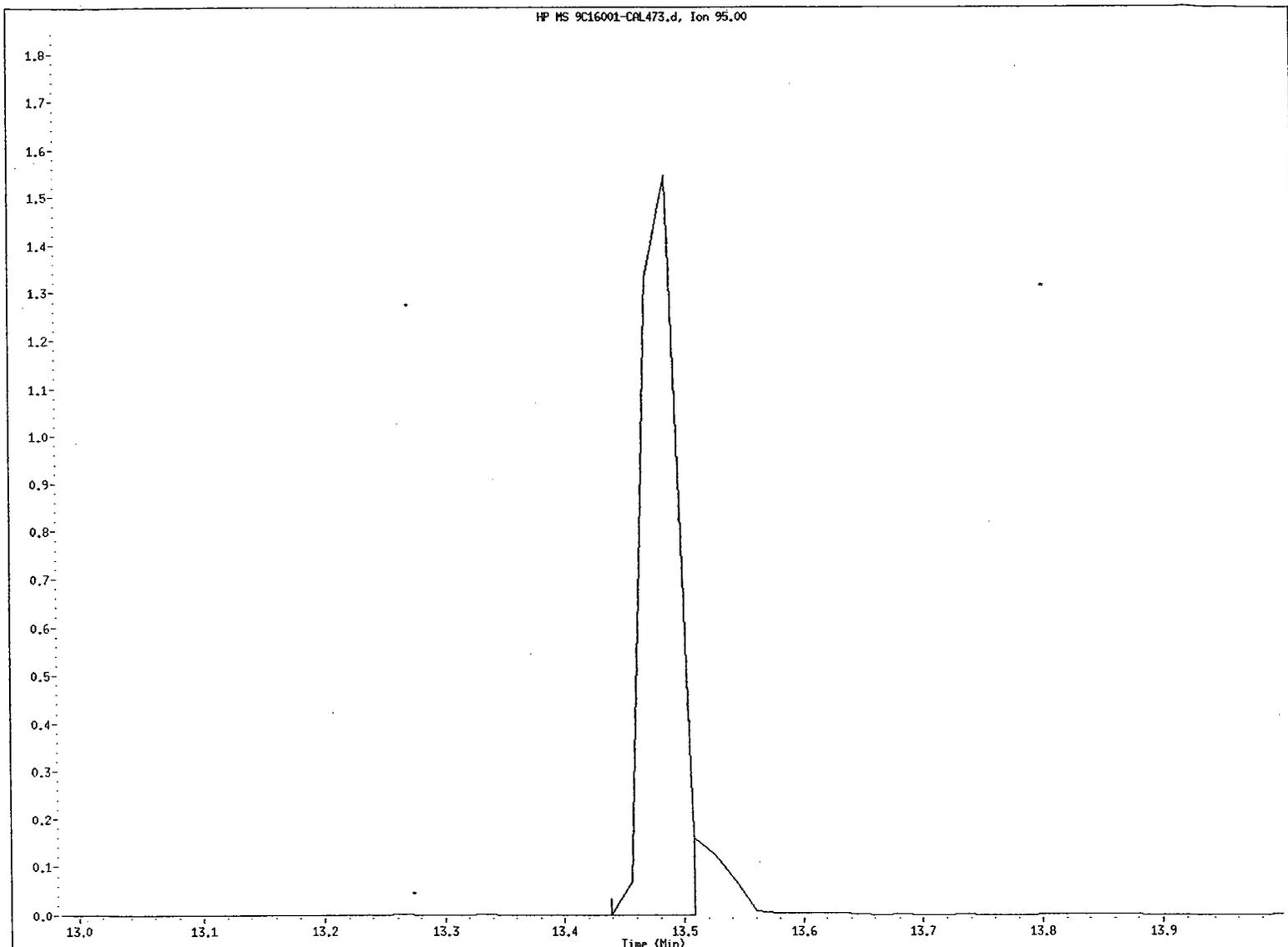
Handwritten initials

| Compounds | QUANT | SIG | | | | | AMOUNTS | |
|------------------------------|-------|-----|--------|----------------|---------|---------|----------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== | ===== |
| 17 1,1-Dichloroethene | 96 | | 7.014 | 7.013 (0.685) | 278727 | 250.000 | 230 | |
| 18 Acetone | 43 | | 7.066 | 7.066 (0.690) | 130988 | 1250.00 | 900 | |
| 19 Iodomethane | 142 | | 7.258 | 7.240 (0.709) | 430450 | 250.000 | 250 | |
| 20 Carbon disulfide | 76 | | 7.362 | 7.362 (0.719) | 1096961 | 250.000 | 240 | |
| 22 3-Chloropropene | 39 | | 7.519 | 7.518 (0.735) | 323334 | 250.000 | 240 | |
| 23 Acetonitrile | 41 | | 7.519 | 7.518 (0.735) | 475178 | 250.000 | 240 | |
| 24 Methyl acetate | 43 | | 7.519 | 7.518 (0.735) | 205128 | 250.000 | 230 | |
| 25 Methylene Chloride | 84 | | 7.693 | 7.693 (0.752) | 271589 | 250.000 | 220 | |
| 26 Acrylonitrile | 53 | | 7.989 | 7.989 (0.781) | 317321 | 2500.00 | 2400 | |
| 28 trans-1,2-Dichloroethene | 96 | | 8.041 | 8.041 (0.786) | 320111 | 250.000 | 240 | |
| 27 Methyl-tert-butyl ether | 73 | | 8.024 | 8.023 (0.784) | 393141 | 250.000 | 250 | |
| 30 Isopropyl ether | 45 | | 8.563 | 8.563 (0.837) | 910101 | 250.000 | 250 | |
| 31 Vinyl acetate | 43 | | 8.563 | 8.563 (0.837) | 362698 | 500.000 | 490 | |
| 32 1,1-Dichloroethane | 63 | | 8.563 | 8.563 (0.837) | 539322 | 250.000 | 250 | |
| 33 Chloroprene | 53 | | 8.650 | 8.650 (0.845) | 480371 | 250.000 | 240 | |
| 34 2-butanone | 43 | | 9.138 | 9.138 (0.893) | 230792 | 1250.00 | 1200 | |
| 35 2,2-Dichloropropane | 77 | | 9.173 | 9.173 (0.896) | 407439 | 250.000 | 220 | |
| 36 cis-1,2-Dichloroethene | 96 | | 9.190 | 9.190 (0.898) | 301721 | 250.000 | 240 | |
| 37 Propionitrile | 54 | | 9.208 | 9.207 (0.900) | 574475 | 12500.0 | 12000 | |
| 38 Methacrylonitrile | 41 | | 9.364 | 9.364 (0.915) | 653607 | 2500.00 | 2500 | |
| 39 Bromochloromethane | 128 | | 9.417 | 9.416 (0.920) | 106872 | 250.000 | 230 | |
| 40 Chloroform | 83 | | 9.469 | 9.469 (0.925) | 492245 | 250.000 | 240 | |
| 42 1,1,1-Trichloroethane | 97 | | 9.678 | 9.677 (0.946) | 413868 | 250.000 | 220 | |
| 43 Cyclohexane | 84 | | 9.730 | 9.730 (0.951) | 362974 | 250.000 | 160 | |
| 44 1,1-dichloropropene | 75 | | 9.835 | 9.817 (0.961) | 402522 | 250.000 | 220 | |
| 45 Isobutyl alcohol | 43 | | 9.800 | 9.799 (0.957) | 186627 | 12500.0 | 11000 | |
| 46 Carbon Tetrachloride | 117 | | 9.835 | 9.834 (0.961) | 353648 | 250.000 | 220 | |
| 47 Benzene | 78 | | 10.009 | 10.008 (0.978) | 1049050 | 250.000 | 230 | |
| 48 1,2-Dichloroethane | 62 | | 10.026 | 10.026 (0.980) | 226468 | 250.000 | 250 | |
| 49 Trichloroethene | 130 | | 10.566 | 10.566 (1.032) | 303878 | 250.000 | 220 | |
| 50 Methylcyclohexane | 83 | | 10.740 | 10.740 (1.049) | 394570 | 250.000 | 180 | |
| 51 1,2-Dichloropropane | 63 | | 10.757 | 10.757 (1.051) | 240652 | 250.000 | 240 | |
| 52 Methylmethacrylate | 69 | | 10.740 | 10.740 (1.049) | 792466 | 2500.00 | 2400 | |
| 53 1,4-dioxane | 88 | | 10.810 | 10.809 (1.056) | 47362 | 12500.0 | 13000 | |
| 54 Dibromomethane | 174 | | 10.862 | 10.862 (1.061) | 107106 | 250.000 | 250 | |
| 55 Bromodichloromethane | 83 | | 10.949 | 10.949 (1.070) | 322058 | 250.000 | 240 | |
| 56 2-chloroethyl vinyl ether | 63 | | 11.123 | 11.123 (1.087) | 99822 | 2500.00 | 2600 | |
| 57 cis-1,3-Dichloropropene | 75 | | 11.297 | 11.297 (1.104) | 348372 | 250.000 | 250 | |
| 58 4-Methyl-2-pentanone | 43 | | 11.349 | 11.349 (0.897) | 543921 | 1250.00 | 1300 | |
| 59 Toluene | 92 | | 11.576 | 11.575 (0.915) | 604794 | 250.000 | 210 | |
| 60 Ethylmethacrylate | 69 | | 11.698 | 11.697 (0.924) | 1606747 | 2500.00 | 2600 | |
| 61 trans-1,3-Dichloropropene | 75 | | 11.715 | 11.715 (0.926) | 266860 | 250.000 | 250 | |
| 62 1,1,2-Trichloroethane | 97 | | 11.889 | 11.871 (0.939) | 132844 | 250.000 | 240 | |
| 63 2-hexanone | 43 | | 11.994 | 11.993 (0.948) | 378022 | 1250.00 | 1300 | |
| 64 1,3-Dichloropropane | 76 | | 12.028 | 12.028 (0.950) | 239688 | 250.000 | 250 | |
| 65 Tetrachloroethene | 164 | | 12.028 | 12.028 (0.950) | 218181 | 250.000 | 200 | |
| 66 Dibromochloromethane | 129 | | 12.203 | 12.202 (0.964) | 190777 | 250.000 | 250 | |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 67 1,2-Dibromoethane | 107 | 12.324 | 12.324 | (0.974) | 137656 | 250.000 | 250 |
| 68 1-Chlorohexane | 55 | 12.568 | 12.568 | (0.993) | 296511 | 250.000 | 240 |
| 69 Chlorobenzene | 112 | 12.673 | 12.672 | (1.001) | 626847 | 250.000 | 220 |
| 70 Ethylbenzene | 106 | 12.690 | 12.690 | (1.003) | 345260 | 250.000 | 200 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.707 | 12.707 | (1.004) | 223866 | 250.000 | 230 |
| 72 m,p-Xylene | 106 | 12.777 | 12.777 | (1.010) | 839675 | 500.000 | 420 |
| 73 o-Xylene | 106 | 13.073 | 13.073 | (1.033) | 406983 | 250.000 | 210 |
| 74 Styrene | 104 | 13.073 | 13.073 | (1.033) | 646398 | 250.000 | 220 |
| 75 Bromoform | 173 | 13.282 | 13.264 | (1.050) | 98023 | 250.000 | 250 |
| 76 Isopropyl Benzene | 105 | 13.317 | 13.317 | (1.052) | 1041449 | 250.000 | 200 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.526 | 13.526 | (0.940) | 154178 | 250.000 | 230 |
| 79 1,2,3-Trichloropropane | 110 | 13.596 | 13.595 | (1.074) | 35340 | 250.000 | 240 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.561 | 13.560 | (1.072) | 154920 | 1000.00 | 1000 |
| 80 n-Propyl Benzene | 91 | 13.613 | 13.613 | (0.946) | 1328400 | 250.000 | 190 |
| 81 Bromobenzene | 156 | 13.630 | 13.630 | (1.077) | 234977 | 250.000 | 210 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.735 | 13.735 | (0.954) | 797631 | 250.000 | 190 |
| 83 2-Chlorotoluene | 126 | 13.752 | 13.752 | (0.955) | 251310 | 250.000 | 200 |
| 84 4-Chlorotoluene | 126 | 13.822 | 13.822 | (0.960) | 251509 | 250.000 | 190 |
| 85 tert-Butyl Benzene | 119 | 13.996 | 13.996 | (0.972) | 770637 | 250.000 | 190 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.031 | 14.031 | (0.975) | 778429 | 250.000 | 190 |
| 87 Pentachloroethane | 167 | 14.083 | 14.083 | (0.978) | 153838 | 250.000 | 250 |
| 88 sec-Butyl Benzene | 105 | 14.170 | 14.170 | (0.984) | 1131952 | 250.000 | 190 |
| 89 p-Isopropyl Toluene | 119 | 14.257 | 14.257 | (0.990) | 881677 | 250.000 | 190 |
| 90 1,3-Dichlorobenzene | 146 | 14.344 | 14.344 | (0.996) | 456028 | 250.000 | 190 |
| 91 1,4-Dichlorobenzene | 146 | 14.414 | 14.414 | (1.001) | 444084 | 250.000 | 190 |
| 92 n-Butyl Benzene | 91 | 14.588 | 14.588 | (1.013) | 890871 | 250.000 | 180 |
| 93 1,2-Dichlorobenzene | 146 | 14.745 | 14.744 | (1.024) | 363558 | 250.000 | 200 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.406 | 15.406 | (1.070) | 18507 | 250.000 | 180 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.277 | 16.277 | (1.131) | 237955 | 250.000 | 180 |
| 96 Hexachlorobutadiene | 225 | 16.399 | 16.399 | (1.139) | 142196 | 250.000 | 190 |
| 97 Naphthalene | 128 | 16.590 | 16.590 | (1.152) | 293134 | 250.000 | 180 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.886 | 16.886 | (1.173) | 185542 | 250.000 | 180 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 621832 | 500.000 | 490 |
| M 100 Xylene (total) | 106 | | | | 1246658 | 250.000 | 650 |

QC Flag Legend

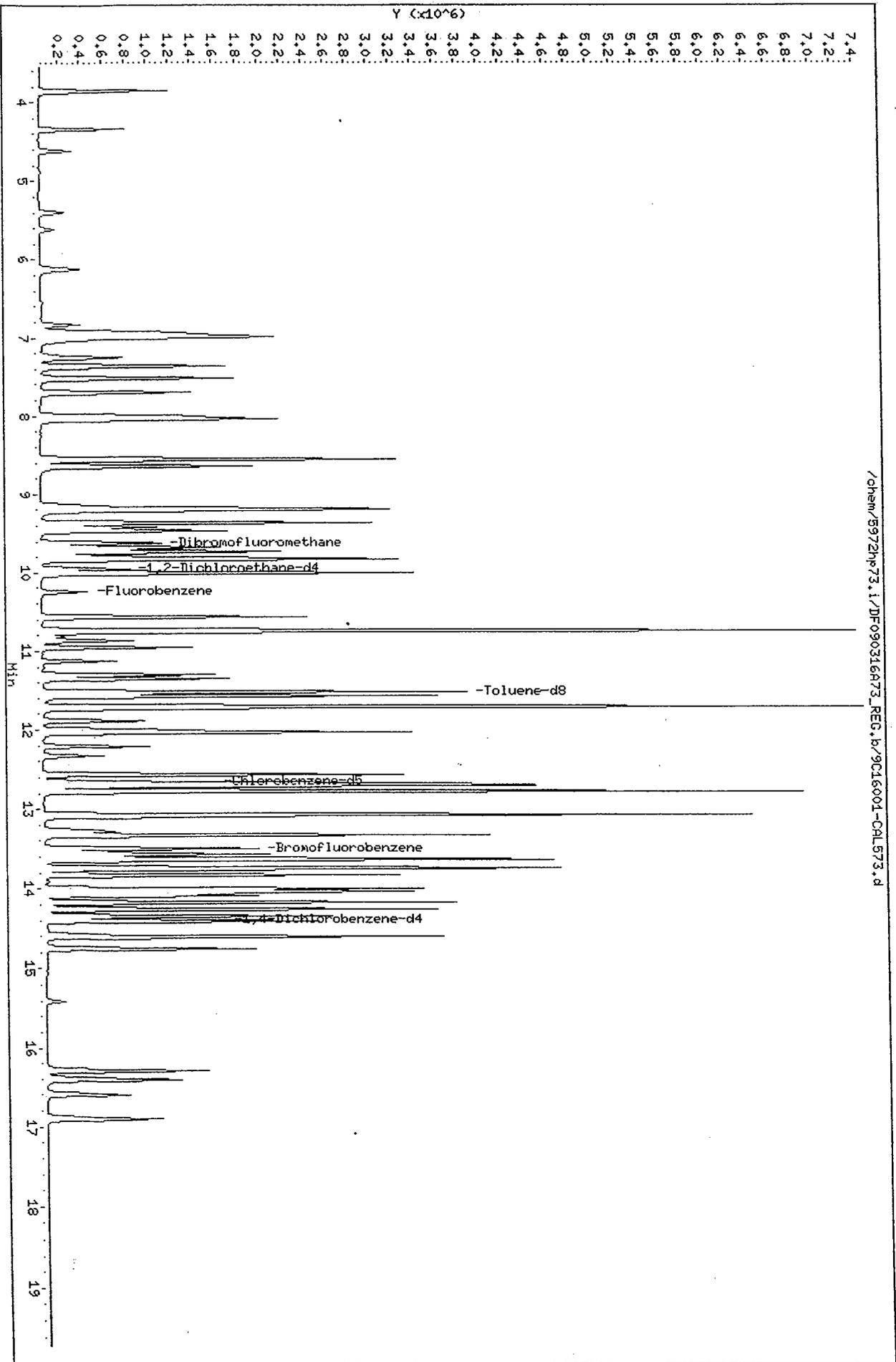
M - Compound response manually integrated.



File name: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL473.d
Client ID: VSTD010
Instrument ID: 5972hp73.i
Injection Date and Time: 16-MAR-2009 11:55
Retention Time: 13.49
Operator ID: JAO

Data File: /chem/5972hp73.i/DF090316A73_REG.h/9C16001-CAL573.d
 Date: 16-MAR-2009 12:24
 Client ID: VSTD025
 Sample Info: 9C16001-CAL5:JAO
 Purge Volume: 25.0
 Column phase: SPB-624

Instrument: 5972hp73.i
 Operator: JAO
 Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL573.d
 Lab Smp Id: 9C16001-CAL5 Client Smp ID: VSTD025
 Inj Date : 16-MAR-2009 12:24
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C16001-CAL5:JAO
 Misc Info : VSTD025
 Comment :
 Method : /chem/5972hp73.i/DF090316A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 17-Mar-2009 13:04 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:24 Cal File: 9C16001-CAL573.d
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | | 96 | 10.236 | 10.235 | (1.000) | 386009 | 125.000 | |
| * 2 Chlorobenzene-d5 | | 117 | 12.656 | 12.655 | (1.000) | 256705 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | | 152 | 14.397 | 14.396 | (1.000) | 115626 | 125.000 | |
| \$ 4 Dibromofluoromethane | | 113 | 9.626 | 9.625 | (0.940) | 752350 | 625.000 | 600 |
| \$ 5 1,2-Dichloroethane-d4 | | 65 | 9.957 | 9.956 | (0.973) | 484690 | 625.000 | 570 |
| \$ 6 Toluene-d8 | | 98 | 11.524 | 11.523 | (0.911) | 2449292 | 625.000 | 560 |
| \$ 7 Bromofluorobenzene | | 95 | 13.492 | 13.491 | (0.937) | 819348 | 625.000 | 510 (M) |
| 8 Dichlorodifluoromethane | | 85 | 3.863 | 3.862 | (0.377) | 1378763 | 625.000 | 600 |
| 9 Chloromethane | | 50 | 4.333 | 4.332 | (0.423) | 837771 | 625.000 | 640 (A) |
| 10 Vinyl Chloride | | 62 | 4.611 | 4.611 | (0.451) | 388856 | 625.000 | 620 |
| 11 Bromomethane | | 94 | 5.395 | 5.394 | (0.527) | 227279 | 625.000 | 670 (A) |
| 12 Chloroethane | | 64 | 5.621 | 5.620 | (0.549) | 148428 | 625.000 | 590 |
| 13 Trichlorofluoromethane | | 101 | 6.126 | 6.125 | (0.599) | 516546 | 625.000 | 620 |
| 14 Acrolein | | 56 | 6.840 | 6.839 | (0.668) | 391597 | 6250.00 | 6400 (A) |
| 15 1,1,1-trichloro-2,2,2-trifluo | | 117 | 6.945 | 6.944 | (0.678) | 386700 | 625.000 | 540 |
| 16 1,1,2-trichloro-1,2,2-trifluo | | 85 | 6.979 | 6.979 | (0.682) | 425930 | 625.000 | 530 |

Handwritten signature and date:
 20
 3/18/09

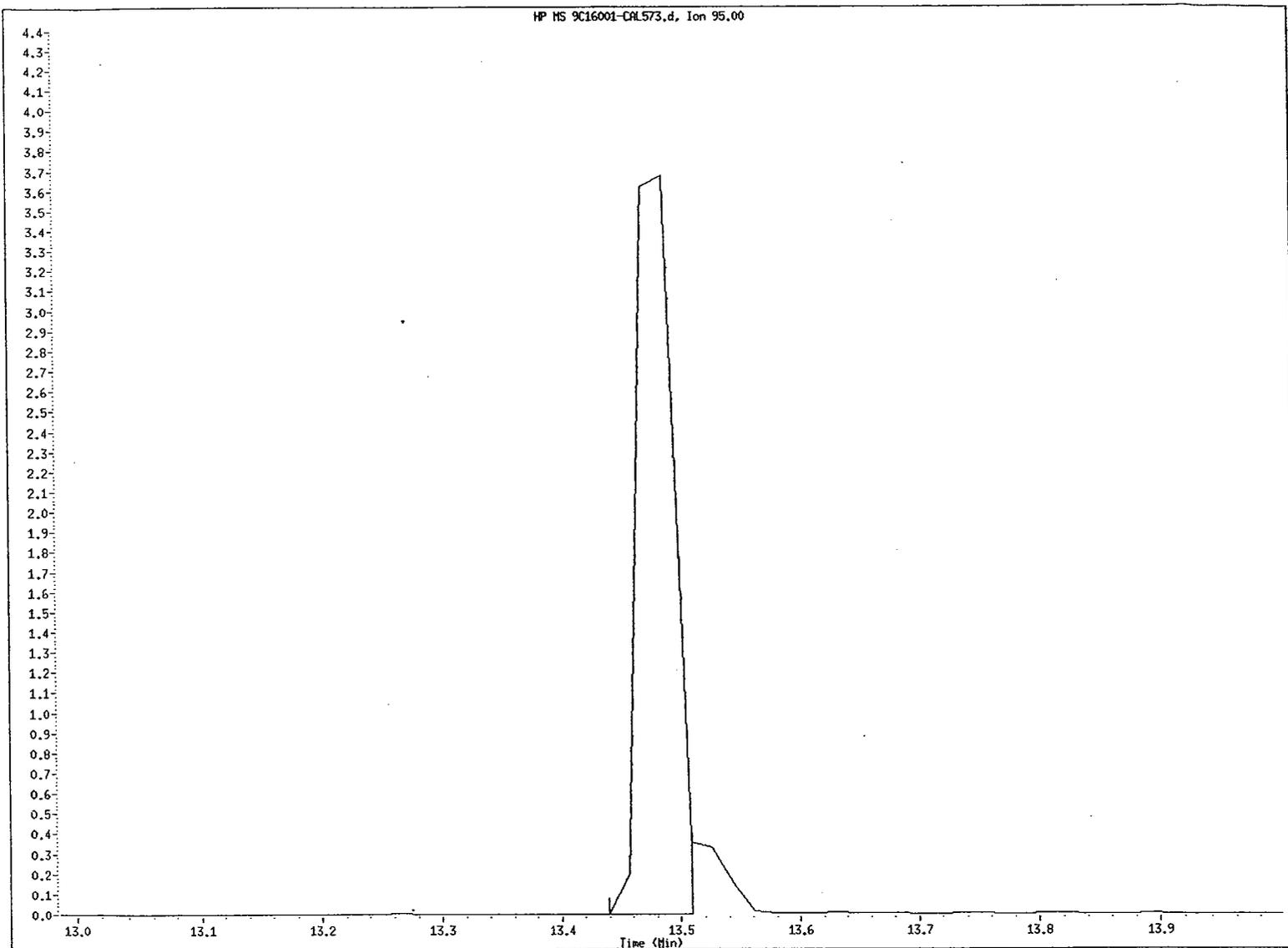
| Compounds | QUANT SIG | | AMOUNTS | | | | |
|------------------------------|-----------|--------|---------|---------|----------|---------------|--------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 17 1,1-Dichloroethene | 96 | 7.014 | 7.013 | (0.685) | 727800 | 625.000 | 610 |
| 18 Acetone | 43 | 7.049 | 7.066 | (0.689) | 332521 | 3125.00 | 2400 |
| 19 Iodomethane | 142 | 7.241 | 7.240 | (0.707) | 1066394 | 625.000 | 610 |
| 20 Carbon disulfide | 76 | 7.363 | 7.362 | (0.719) | 2808609 | 625.000 | 620 |
| 22 3-Chloropropene | 39 | 7.519 | 7.518 | (0.735) | 794354 | 625.000 | 600 |
| 23 Acetonitrile | 41 | 7.519 | 7.518 | (0.735) | 1181169 | 625.000 | 600 |
| 24 Methyl acetate | 43 | 7.519 | 7.518 | (0.735) | 514348 | 625.000 | 600 |
| 25 Methylene Chloride | 84 | 7.693 | 7.693 | (0.752) | 669231 | 625.000 | 570 |
| 26 Acrylonitrile | 53 | 7.989 | 7.989 | (0.781) | 827307 | 6250.00 | 6300 (A) |
| 28 trans-1,2-Dichloroethene | 96 | 8.042 | 8.041 | (0.786) | 829954 | 625.000 | 630 (A) |
| 27 Methyl-tert-butyl ether | 73 | 8.024 | 8.023 | (0.784) | 1006665 | 625.000 | 630 (A) |
| 30 Isopropyl ether | 45 | 8.564 | 8.563 | (0.837) | 2284870 | 625.000 | 620 |
| 31 Vinyl acetate | 43 | 8.564 | 8.563 | (0.837) | 911846 | 1250.00 | 1200 |
| 32 1,1-Dichloroethane | 63 | 8.564 | 8.563 | (0.837) | 1353822 | 625.000 | 620 |
| 33 Chloroprene | 53 | 8.651 | 8.650 | (0.845) | 1211018 | 625.000 | 620 |
| 34 2-butanone | 43 | 9.139 | 9.138 | (0.893) | 594417 | 3125.00 | 3100 |
| 35 2,2-Dichloropropane | 77 | 9.173 | 9.173 | (0.896) | 1043774 | 625.000 | 580 |
| 36 cis-1,2-Dichloroethene | 96 | 9.191 | 9.190 | (0.898) | 782960 | 625.000 | 630 (A) |
| 37 Propionitrile | 54 | 9.208 | 9.207 | (0.900) | 1450611 | 31250.0 | 31000 (A) |
| 38 Methacrylonitrile | 41 | 9.365 | 9.364 | (0.915) | 1664804 | 6250.00 | 6300 (A) |
| 39 Bromochloromethane | 128 | 9.417 | 9.416 | (0.920) | 270331 | 625.000 | 600 |
| 40 Chloroform | 83 | 9.469 | 9.469 | (0.925) | 1261248 | 625.000 | 620 |
| 42 1,1,1-Trichloroethane | 97 | 9.678 | 9.677 | (0.946) | 1066510 | 625.000 | 580 |
| 43 Cyclohexane | 84 | 9.731 | 9.730 | (0.951) | 946311 | 625.000 | 460 |
| 44 1,1-dichloropropene | 75 | 9.818 | 9.817 | (0.959) | 1049902 | 625.000 | 570 |
| 45 Isobutyl alcohol | 43 | 9.800 | 9.799 | (0.957) | 497927 | 31250.0 | 30000 |
| 46 Carbon Tetrachloride | 117 | 9.835 | 9.834 | (0.961) | 932774 | 625.000 | 580 |
| 47 Benzene | 78 | 10.009 | 10.008 | (0.978) | 2656689 | 625.000 | 600 |
| 48 1,2-Dichloroethane | 62 | 10.027 | 10.026 | (0.980) | 575192 | 625.000 | 620 |
| 49 Trichloroethene | 130 | 10.566 | 10.566 | (1.032) | 788237 | 625.000 | 570 |
| 50 Methylcyclohexane | 83 | 10.741 | 10.740 | (1.049) | 990002 | 625.000 | 480 |
| 51 1,2-Dichloropropane | 63 | 10.758 | 10.757 | (1.051) | 580407 | 625.000 | 590 |
| 52 Methylmethacrylate | 69 | 10.741 | 10.740 | (1.049) | 1873296 | 6250.00 | 5800 |
| 53 1,4-dioxane | 88 | 10.810 | 10.809 | (1.056) | 119347 | 31250.0 | 33000 (A) |
| 54 Dibromomethane | 174 | 10.862 | 10.862 | (1.061) | 274494 | 625.000 | 640 (A) |
| 55 Bromodichloromethane | 83 | 10.949 | 10.949 | (1.070) | 822157 | 625.000 | 610 |
| 56 2-chloroethyl vinyl ether | 63 | 11.124 | 11.123 | (1.087) | 268243 | 6250.00 | 6700 (A) |
| 57 cis-1,3-Dichloropropene | 75 | 11.298 | 11.297 | (1.104) | 895015 | 625.000 | 630 (A) |
| 58 4-Methyl-2-pentanone | 43 | 11.350 | 11.349 | (0.897) | 1388696 | 3125.00 | 3200 (A) |
| 59 Toluene | 92 | 11.576 | 11.575 | (0.915) | 1560380 | 625.000 | 560 |
| 60 Ethylmethacrylate | 69 | 11.698 | 11.697 | (0.924) | 3786762 | 6250.00 | 6000 |
| 61 trans-1,3-Dichloropropene | 75 | 11.716 | 11.715 | (0.926) | 665923 | 625.000 | 610 |
| 62 1,1,2-Trichloroethane | 97 | 11.872 | 11.871 | (0.938) | 328361 | 625.000 | 600 |
| 63 2-hexanone | 43 | 11.994 | 11.993 | (0.948) | 955868 | 3125.00 | 3100 (A) |
| 64 1,3-Dichloropropane | 76 | 12.029 | 12.028 | (0.950) | 583166 | 625.000 | 600 |
| 65 Tetrachloroethene | 164 | 12.029 | 12.028 | (0.950) | 570463 | 625.000 | 540 |
| 66 Dibromochloromethane | 129 | 12.203 | 12.202 | (0.964) | 486685 | 625.000 | 620 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 67 1,2-Dibromoethane | 107 | 12.325 | 12.324 | (0.974) | 356229 | 625.000 | 630(A) |
| 68 1-Chlorohexane | 55 | 12.569 | 12.568 | (0.993) | 739025 | 625.000 | 590 |
| 69 Chlorobenzene | 112 | 12.673 | 12.672 | (1.001) | 1607862 | 625.000 | 570 |
| 70 Ethylbenzene | 106 | 12.691 | 12.690 | (1.003) | 896217 | 625.000 | 550 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.708 | 12.707 | (1.004) | 578031 | 625.000 | 590 |
| 72 m,p-Xylene | 106 | 12.778 | 12.777 | (1.010) | 2103353 | 1250.00 | 1100 |
| 73 o-Xylene | 106 | 13.074 | 13.073 | (1.033) | 1009859 | 625.000 | 540 |
| 74 Styrene | 104 | 13.074 | 13.073 | (1.033) | 1624376 | 625.000 | 560 |
| 75 Bromoform | 173 | 13.265 | 13.264 | (1.048) | 252087 | 625.000 | 620 |
| 76 Isopropyl Benzene | 105 | 13.318 | 13.317 | (1.052) | 2708330 | 625.000 | 530 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.526 | 13.526 | (0.940) | 389692 | 625.000 | 590 |
| 79 1,2,3-Trichloropropane | 110 | 13.596 | 13.595 | (1.074) | 90192 | 625.000 | 610 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.561 | 13.560 | (1.072) | 381009 | 2500.00 | 2500 |
| 80 n-Propyl Benzene | 91 | 13.614 | 13.613 | (0.946) | 3347054 | 625.000 | 500 |
| 81 Bromobenzene | 156 | 13.631 | 13.630 | (1.077) | 610585 | 625.000 | 560 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.735 | 13.735 | (0.954) | 2070160 | 625.000 | 520 |
| 83 2-Chlorotoluene | 126 | 13.753 | 13.752 | (0.955) | 656642 | 625.000 | 530 |
| 84 4-Chlorotoluene | 126 | 13.822 | 13.822 | (0.960) | 656903 | 625.000 | 530 |
| 85 tert-Butyl Benzene | 119 | 13.997 | 13.996 | (0.972) | 2018277 | 625.000 | 520 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.031 | 14.031 | (0.975) | 2024951 | 625.000 | 520 |
| 87 Pentachloroethane | 167 | 14.084 | 14.083 | (0.978) | 403287 | 625.000 | 640(A) |
| 88 sec-Butyl Benzene | 105 | 14.171 | 14.170 | (0.984) | 2883474 | 625.000 | 500 |
| 89 p-Isopropyl Toluene | 119 | 14.258 | 14.257 | (0.990) | 2251419 | 625.000 | 520 |
| 90 1,3-Dichlorobenzene | 146 | 14.345 | 14.344 | (0.996) | 1175839 | 625.000 | 520 |
| 91 1,4-Dichlorobenzene | 146 | 14.414 | 14.414 | (1.001) | 1160142 | 625.000 | 510 |
| 92 n-Butyl Benzene | 91 | 14.589 | 14.588 | (1.013) | 2240785 | 625.000 | 490 |
| 93 1,2-Dichlorobenzene | 146 | 14.745 | 14.744 | (1.024) | 941759 | 625.000 | 530 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.407 | 15.406 | (1.070) | 45629 | 625.000 | 490 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.278 | 16.277 | (1.131) | 602483 | 625.000 | 490 |
| 96 Hexachlorobutadiene | 225 | 16.399 | 16.399 | (1.139) | 326431 | 625.000 | 470 |
| 97 Naphthalene | 128 | 16.591 | 16.590 | (1.152) | 793580 | 625.000 | 510 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.887 | 16.886 | (1.173) | 477808 | 625.000 | 500 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 1612914 | 1250.00 | 1300(A) |
| M 100 Xylene (total) | 106 | | | | 3113212 | 625.000 | 1700 |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Bromofluorobenzene CAS Number 460-00-4 Area = 819348 Manually integrated



File name: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-CAL573.d
Client ID: VSTD025
Instrument ID: 5972hp73.i
Injection Date and Time: 16-MAR-2009 12:24
Retention Time: 13.49
Operator ID: JAO

PREVENTIVE MAINTENANCE

News Source (K.G.) 4oned

| FILE NAME | pH | Vol | DATE | TIME | Client ID | SDG# | INI VOL | DF# | CHEMIST | COMMENT(S) OR DISPOSITION |
|-----------------|----|-----|---------|------|---------------|---------|---------|-------|---------|---------------------------|
| 1 9C16001-T0U1 | - | - | 3/16/09 | 1003 | BFR | - | 2uL | - | FAO | LCB=SCD |
| 2 -CAL3 VS | - | - | 1/1 | 1027 | VSTD005 | - | 25mL | - | | |
| 3 -CAL2 | - | - | 1/1 | 1056 | VSTD001 | - | | - | | |
| 4 -CAL1 | - | - | 1/1 | 1126 | VSTD015 | - | | - | | FCAL process |
| 5 -CAL4 | - | - | 1/1 | 1155 | VSTD010 | - | | - | | DOB |
| 6 -CAL5 | - | - | 1/1 | 1224 | VSTD025 | - | | - | | |
| 7 -CAL3R | - | - | 1/1 | 1253 | VSTD005 | - | | - | | |
| 8 GB090316 | - | - | 1/1 | 1323 | V1B LKAR | - | | - | | |
| 9 9031625-BK1 | - | - | 1/1 | 1352 | VBLKGT | VARIOUS | | - | | Passes STGCC-1 |
| 10 -BS1 | - | - | 1/1 | 1421 | VGTLCS | | | - | | 462 N4PR |
| 11 903059-01R5H | 1 | B | 1/1 | 1450 | ALPC2 | 0903059 | 25mL | - | | |
| 12 -02D | 1 | B | 1/1 | 1520 | EW-20 | | 609uL | 41.7 | | |
| 13 -03R | 1 | B | 1/1 | 1549 | TRIP | | 25mL | - | | |
| 14 9031625-BSD1 | - | - | 1/1 | 1618 | VGTLCS | VARIOUS | | - | | Passes STGCC-1 |
| 15 903059-01R3 | 7 | C | 1/1 | 1647 | ALPC2 | 0903059 | 25mL | - | | |
| 16 903012-02B2 | 1 | A | 1/1 | 1717 | 1738MWD-08D | 0903012 | 6mL | 4.17 | | |
| 17 -04R2 | 1 | C | 1/1 | 1746 | AOCF-TB01-08D | | 25mL | - | | |
| 18 -11R 0T | - | - | 1/1 | | -TB02-08D | | 25mL | - | | not run here |
| 19 -08R | 1 | B | 1/1 | 1831 | AOCF-FB01-08D | | 25mL | - | | |
| 20 -09R | 1 | B | 1/1 | 1900 | -ER01-08D | | 25mL | - | | |
| 21 -12D | 1 | B | 1/1 | 1929 | 124MWD-08D | | 5mL | 5 | | 10Z vol |
| 22 -13D | 1 | C | 1/1 | 1959 | 1738MWD-08D | | 659uL | 38.46 | | |
| 23 -05D | 1 | C | 1/1 | 2028 | 1738MWD-08D | | 659uL | 38.46 | | |
| 24 -06 | 1 | B | 1/1 | 2057 | 2842BMWD-08D | | 25mL | - | | 77C |

*On-column sample aliquot

+Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Tune (ID #7008) Lot No: 66499

Calibration Group Code / Lot No: DC461

REVIEWED BY: [Signature] Date 3-17-09 Archem IS# 66537

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/20/09

03/20/09

Column: SPB-624 ID: 0.32 (mm)

Calibration Time(s): 1245

1610

LAB FILE ID: RF0.5: 9C20003-CALRF1: 9C20003-CAL27RF5: 9C20003-CAL3R
RF10: 9C20003-CAL4RF25: 9C20003-CAL5

| COMPOUND | RF0.5 | RF1 | RF5 | RF10 | RF25 |
|---------------------------|---------|---------|---------|---------|---------|
| Dichlorodifluoromethane | 0.87143 | 0.94986 | 0.80686 | 0.75910 | 0.69406 |
| Chloromethane | 0.48960 | 0.43034 | 0.44241 | 0.43981 | 0.41751 |
| Vinyl Chloride | 0.31353 | 0.27252 | 0.26425 | 0.24396 | 0.23644 |
| Bromomethane | 0.16148 | 0.14899 | 0.14491 | 0.14678 | 0.14140 |
| Chloroethane | 0.18923 | 0.10952 | 0.11121 | 0.09988 | 0.09387 |
| Trichlorofluoromethane | 0.41943 | 0.40333 | 0.40702 | 0.35433 | 0.32411 |
| Acrolein | 0.01664 | 0.01688 | 0.01690 | 0.01761 | 0.01772 |
| 1,1-Dichloroethene | 0.48008 | 0.43755 | 0.43161 | 0.43381 | 0.41505 |
| Iodomethane | 0.74285 | 0.72903 | 0.69665 | 0.63870 | 0.63178 |
| Carbon disulfide | 1.83205 | 1.74158 | 1.76799 | 1.72422 | 1.57392 |
| Acetone | 0.06054 | 0.05185 | 0.03508 | 0.03677 | 0.03288 |
| 3-Chloropropene | 0.48430 | 0.41817 | 0.43476 | 0.40032 | 0.37893 |
| Acetonitrile | 0.66931 | 0.65349 | 0.64617 | 0.62055 | 0.58960 |
| Methylene Chloride | 0.53697 | 0.44973 | 0.43584 | 0.43000 | 0.40145 |
| trans-1,2-Dichloroethene | 0.52614 | 0.47549 | 0.52301 | 0.50194 | 0.48817 |
| Acrylonitrile | 0.04133 | 0.04360 | 0.04490 | 0.04683 | 0.04397 |
| 1,1-Dichloroethane | 0.88034 | 0.80620 | 0.82215 | 0.79896 | 0.74754 |
| Vinyl acetate | 0.24568 | 0.21198 | 0.23595 | 0.24196 | 0.23417 |
| 2,2-Dichloropropane | 0.63759 | 0.56107 | 0.66092 | 0.60624 | 0.55272 |
| cis-1,2-Dichloroethene | 0.44666 | 0.44990 | 0.46872 | 0.46385 | 0.44808 |
| 2-butanone | 0.05206 | 0.05371 | 0.05261 | 0.05847 | 0.05834 |
| Propionitrile | 0.01620 | 0.01599 | 0.01585 | 0.01651 | 0.01515 |
| Bromochloromethane | 0.18277 | 0.17332 | 0.16852 | 0.17111 | 0.16504 |
| Methacrylonitrile | 0.07437 | 0.07912 | 0.08501 | 0.08952 | 0.08476 |
| Chloroform | 0.78891 | 0.76585 | 0.77313 | 0.75483 | 0.70366 |
| 1,1,1-Trichloroethane | 0.63817 | 0.60680 | 0.66809 | 0.64590 | 0.58536 |
| Carbon Tetrachloride | 0.54858 | 0.55076 | 0.61497 | 0.57852 | 0.52626 |
| 1,1-dichloropropene | 0.54197 | 0.59102 | 0.65842 | 0.62594 | 0.56575 |
| Benzene | 1.68533 | 1.60934 | 1.70271 | 1.64735 | 1.53460 |
| 1,2-Dichloroethane | 0.34892 | 0.32876 | 0.33270 | 0.32961 | 0.30580 |
| Isobutyl alcohol | 0.00487 | 0.00486 | 0.00403 | 0.00462 | 0.00476 |
| Trichloroethene | 0.46149 | 0.48201 | 0.47968 | 0.49172 | 0.46353 |
| 1,2-Dichloropropane | 0.38701 | 0.36207 | 0.37900 | 0.36985 | 0.33389 |
| Dibromomethane | 0.16736 | 0.15793 | 0.16345 | 0.17314 | 0.17012 |
| Methylmethacrylate | 0.08470 | 0.10524 | 0.11069 | 0.11726 | 0.10593 |
| Bromodichloromethane | 0.45321 | 0.43242 | 0.46668 | 0.46846 | 0.45017 |
| cis-1,3-Dichloropropene | 0.44217 | 0.44194 | 0.48304 | 0.49688 | 0.49079 |
| 4-Methyl-2-pentanone | 0.16079 | 0.18220 | 0.18490 | 0.18928 | 0.19219 |
| Toluene | 1.27088 | 1.33133 | 1.50894 | 1.34756 | 1.28634 |
| trans-1,3-Dichloropropene | 0.54064 | 0.53726 | 0.57533 | 0.52440 | 0.50545 |
| 1,1,2-Trichloroethane | 0.32240 | 0.30885 | 0.29136 | 0.27804 | 0.28082 |
| Ethylmethacrylate | 0.26338 | 0.30956 | 0.32450 | 0.30869 | 0.28665 |
| Tetrachloroethene | 0.51678 | 0.63685 | 0.60221 | 0.53434 | 0.49740 |
| 1,3-Dichloropropane | 0.51021 | 0.53463 | 0.52436 | 0.48894 | 0.46970 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/20/09

03/20/09

Column: SPB-624 ID: 0.32 (mm)

Calibration Time(s): 1245

1610

LAB FILE ID: RF0.5: 9C20003-CALRF1: 9C20003-CAL27RF5: 9C20003-CAL3R
RF10: 9C20003-CAL4RF25: 9C20003-CAL5

| COMPOUND | RF0.5 | RF1 | RF5 | RF10 | RF25 |
|-----------------------------|---------|---------|---------|---------|---------|
| 2-hexanone | 0.09635 | 0.11259 | 0.11625 | 0.12455 | 0.13191 |
| Dibromochloromethane | 0.39722 | 0.40214 | 0.39535 | 0.38217 | 0.39140 |
| Chlorobenzene | 1.41825 | 1.50937 | 1.60553 | 1.41161 | 1.34791 |
| 1,1,1,2-Tetrachloroethane | 0.52444 | 0.50590 | 0.54167 | 0.49670 | 0.48129 |
| Ethylbenzene | 0.66171 | 0.82487 | 0.89736 | 0.79399 | 0.72168 |
| m,p-Xylene | 0.79037 | 0.99148 | 1.08567 | 0.97060 | 0.88486 |
| o-Xylene | 0.75249 | 0.90399 | 1.02760 | 0.92339 | 0.84050 |
| Styrene | 1.22912 | 1.31120 | 1.51507 | 1.39604 | 1.34550 |
| Bromoform | 0.16921 | 0.20079 | 0.20237 | 0.19994 | 0.20494 |
| 1,2,3-Trichloropropane | 0.07416 | 0.07542 | 0.07927 | 0.07681 | 0.07385 |
| 1,1,2,2-Tetrachloroethane | 0.71395 | 0.69496 | 0.73768 | 0.71362 | 0.69205 |
| trans-1,4-dichloro-2-butene | 0.06992 | 0.06792 | 0.07258 | 0.07038 | 0.06787 |
| 1,3-Dichlorobenzene | 2.71878 | 2.82400 | 2.59392 | 2.35126 | 2.30146 |
| 1,4-Dichlorobenzene | 2.81614 | 3.05226 | 2.59937 | 2.33643 | 2.17148 |
| 1,2-Dichlorobenzene | 2.15792 | 2.16609 | 2.05534 | 1.88042 | 1.77766 |
| 1,2,4-Trichlorobenzene | 1.26425 | 1.42104 | 1.16296 | 1.22345 | 1.14151 |
| Hexachlorobutadiene | 0.85106 | 0.92686 | 0.57204 | 0.80691 | 0.59919 |
| Naphthalene | 1.41162 | 1.45271 | 1.35078 | 1.39794 | 1.43906 |
| Xylene (total) | 0.75249 | 0.90399 | 1.02760 | 0.92339 | 0.84050 |
| Chloroprene | 0.53373 | 0.59382 | 0.63750 | 0.61589 | 0.60266 |
| Dibromofluoromethane | 0.47690 | 0.47304 | 0.45739 | 0.43467 | 0.42628 |
| 1,2-Dichloroethane-d4 | 0.31787 | 0.28748 | 0.28865 | 0.26766 | 0.25768 |
| Toluene-d8 | 2.23498 | 2.16739 | 2.19677 | 1.95233 | 1.94855 |
| Bromofluorobenzene | 1.61856 | 1.44136 | 1.55972 | 1.39127 | 1.41493 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/20/09 03/20/09

Column: SPB-624

ID: 0.32 (mm)

Calibration Time(s): 1245

1610

| COMPOUND | CURVE | COEFFICIENT | %RSD | MAX %RSD |
|---------------------------|-------|-------------|--------|----------|
| | | A1 | OR R^2 | OR R^2 |
| Dichlorodifluoromethane | AVRG | 0.81626086 | 12.125 | 90.000 |
| Chloromethane | AVRG | 0.44393671 | 6.156 | 90.000 |
| Vinyl Chloride | AVRG | 0.26614125 | 11.373 | 30.000 |
| Bromomethane | AVRG | 0.14871136 | 5.152 | 90.000 |
| Chloroethane | AVRG | 0.12074216 | 32.249 | 90.000 |
| Trichlorofluoromethane | AVRG | 0.38164475 | 10.642 | 90.000 |
| Acrolein | AVRG | 0.01715133 | 2.808 | 90.000 |
| 1,1-Dichloroethene | AVRG | 0.43962051 | 5.505 | 30.000 |
| Iodomethane | AVRG | 0.68780189 | 7.398 | 90.000 |
| Carbon disulfide | AVRG | 1.72795047 | 5.518 | 90.000 |
| Acetone | AVRG | 0.04342089 | 27.945 | 90.000 |
| 3-Chloropropene | AVRG | 0.42329504 | 9.431 | 90.000 |
| Acetonitrile | AVRG | 0.63582418 | 4.918 | 90.000 |
| Methylene Chloride | AVRG | 0.45079855 | 11.375 | 90.000 |
| trans-1,2-Dichloroethene | AVRG | 0.50294984 | 4.349 | 90.000 |
| Acrylonitrile | AVRG | 0.04412731 | 4.534 | 90.000 |
| 1,1-Dichloroethane | AVRG | 0.81103951 | 5.890 | 90.000 |
| Vinyl acetate | AVRG | 0.23394760 | 5.608 | 90.000 |
| 2,2-Dichloropropane | AVRG | 0.60370667 | 7.789 | 90.000 |
| cis-1,2-Dichloroethene | AVRG | 0.45544357 | 2.220 | 90.000 |
| 2-butanone | AVRG | 0.05503687 | 5.685 | 90.000 |
| Propionitrile | AVRG | 0.01593977 | 3.180 | 90.000 |
| Bromochloromethane | AVRG | 0.17215314 | 3.885 | 90.000 |
| Methacrylonitrile | AVRG | 0.08255769 | 7.119 | 90.000 |
| Chloroform | AVRG | 0.75727542 | 4.282 | 30.000 |
| 1,1,1-Trichloroethane | AVRG | 0.62886595 | 5.210 | 90.000 |
| Carbon Tetrachloride | AVRG | 0.56382099 | 6.044 | 90.000 |
| 1,1-dichloropropene | AVRG | 0.59662093 | 7.794 | 90.000 |
| Benzene | AVRG | 1.63586814 | 4.101 | 90.000 |
| 1,2-Dichloroethane | AVRG | 0.32915887 | 4.680 | 90.000 |
| Isobutyl alcohol | AVRG | 0.00462993 | 7.505 | 90.000 |
| Trichloroethene | AVRG | 0.47568571 | 2.705 | 90.000 |
| 1,2-Dichloropropane | AVRG | 0.36636661 | 5.579 | 30.000 |
| Dibromomethane | AVRG | 0.16640187 | 3.566 | 90.000 |
| Methylmethacrylate | AVRG | 0.10476772 | 11.644 | 90.000 |
| Bromodichloromethane | AVRG | 0.45418991 | 3.211 | 90.000 |
| cis-1,3-Dichloropropene | AVRG | 0.47096596 | 5.699 | 90.000 |
| 4-Methyl-2-pentanone | AVRG | 0.18187207 | 6.817 | 90.000 |
| Toluene | AVRG | 1.34900991 | 7.025 | 30.000 |
| trans-1,3-Dichloropropene | AVRG | 0.53661547 | 4.784 | 90.000 |
| 1,1,2-Trichloroethane | AVRG | 0.29629542 | 6.396 | 90.000 |
| Ethylmethacrylate | AVRG | 0.29855519 | 7.990 | 90.000 |
| Tetrachloroethene | AVRG | 0.55751762 | 10.650 | 90.000 |
| 1,3-Dichloropropane | AVRG | 0.50556898 | 5.217 | 90.000 |

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date(s): 03/20/09 03/20/09

Column: SPB-624

ID: 0.32 (mm)

Calibration Time(s): 1245

1610

| COMPOUND | CURVE | COEFFICIENT A1 | %RSD OR R^2 | MAX %RSD OR R^2 |
|-----------------------------|-------|-------------------|----------------|--------------------|
| 2-hexanone | AVRG | 0.11632942 | 11.561 | 90.000 |
| Dibromochloromethane | AVRG | 0.39365525 | 1.903 | 90.000 |
| Chlorobenzene | AVRG | 1.45853430 | 6.878 | 90.000 |
| 1,1,1,2-Tetrachloroethane | AVRG | 0.51000023 | 4.629 | 90.000 |
| Ethylbenzene | AVRG | 0.77992302 | 11.712 | 30.000 |
| m,p-Xylene | AVRG | 0.94459480 | 11.851 | 90.000 |
| o-Xylene | AVRG | 0.88959655 | 11.464 | 90.000 |
| Styrene | AVRG | 1.35938775 | 7.808 | 90.000 |
| Bromoform | AVRG | 0.19544919 | 7.568 | 90.000 |
| 1,2,3-Trichloropropane | AVRG | 0.07590142 | 2.919 | 90.000 |
| 1,1,2,2-Tetrachloroethane | AVRG | 0.71045376 | 2.578 | 90.000 |
| trans-1,4-dichloro-2-butene | AVRG | 0.06973509 | 2.806 | 90.000 |
| 1,3-Dichlorobenzene | AVRG | 2.55788353 | 8.882 | 90.000 |
| 1,4-Dichlorobenzene | AVRG | 2.59513577 | 13.681 | 90.000 |
| 1,2-Dichlorobenzene | AVRG | 2.00748979 | 8.593 | 90.000 |
| 1,2,4-Trichlorobenzene | AVRG | 1.24264199 | 8.928 | 90.000 |
| Hexachlorobutadiene | AVRG | 0.75121156 | 20.957 | 90.000 |
| Naphthalene | AVRG | 1.41042117 | 2.819 | 90.000 |
| Xylene (total) | AVRG | 0.88959655 | 11.464 | 90.000 |
| Chloroprene | AVRG | 0.59671867 | 6.514 | 90.000 |
| Dibromofluoromethane | AVRG | 0.45365581 | 4.978 | 90.000 |
| 1,2-Dichloroethane-d4 | AVRG | 0.28386903 | 8.150 | 90.000 |
| Toluene-d8 | AVRG | 2.10000514 | 6.601 | 90.000 |
| Bromofluorobenzene | AVRG | 1.48516913 | 6.650 | 90.000 |

Average %RSD test result.

Calculate Average %RSD: 7.681614876

Maximum Average %RSD: 15.00000000

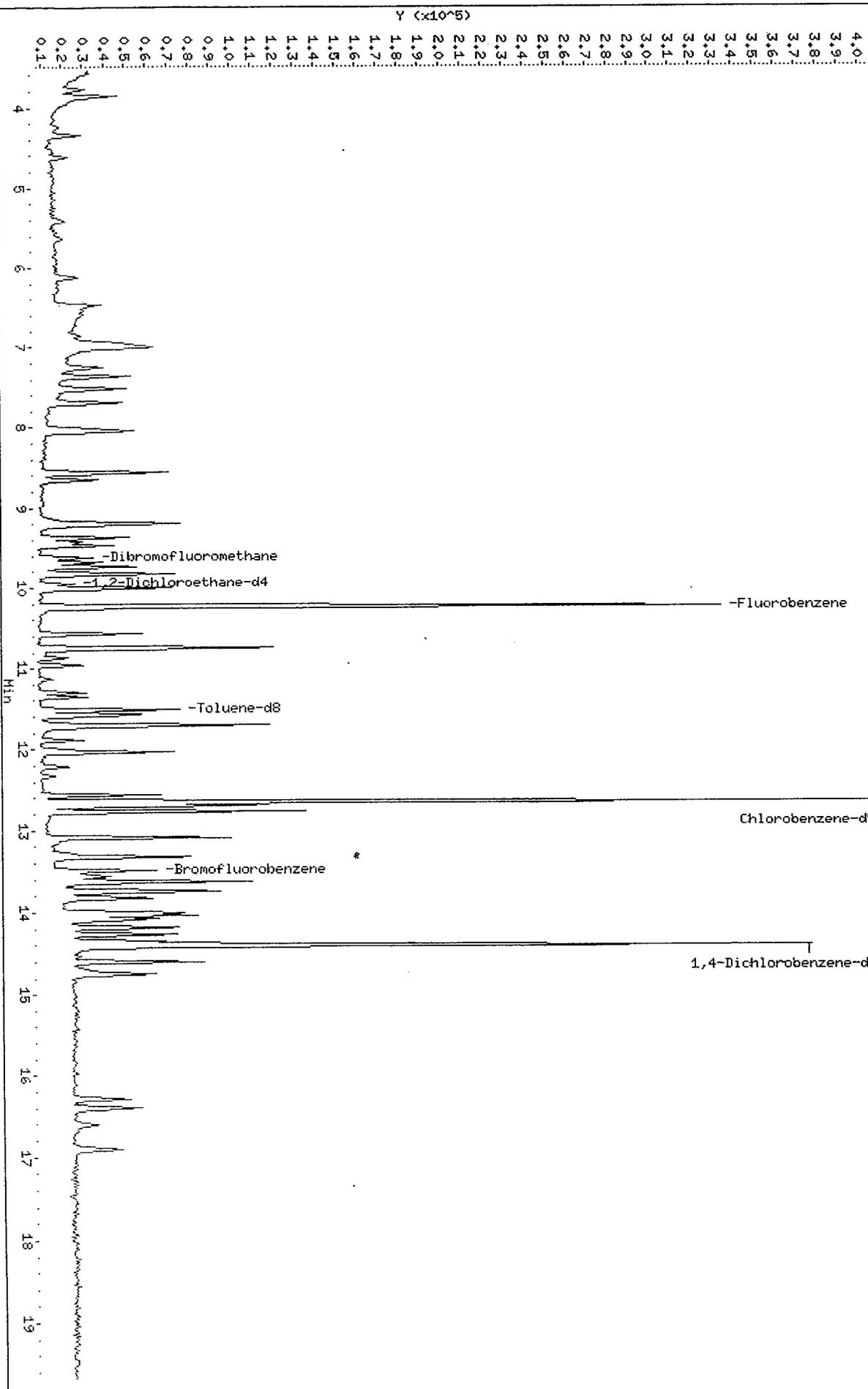
Note: Passes Average %RSD Test.

FORM VI VOA

Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CALL173.d
Date: 20-MAR-2009 13:14
Client ID: VSTD0.5
Sample Info: 9C20003-CALL1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32

/chem/5972hp73.i/DF090320A73_REG.b/9C20003-CALL173.d



Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL173.d
 Report Date: 23-Mar-2009 13:11

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL173.d
 Lab Smp Id: 9C20003-CAL1 Client Smp ID: VSTD0.5
 Inj Date : 20-MAR-2009 13:14
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C20003-CAL1:JAO
 Misc Info : VSTD0.5
 Comment :
 Method : /chem/5972hp73.i/DF090320A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 23-Mar-2009 13:11 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 13:14 Cal File: 9C20003-CAL173.d
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | | | 10.248 | 10.248 | (1.000) | 329757 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.651 | 12.651 | (1.000) | 212932 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.392 | 14.392 | (1.000) | 101380 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.621 | 9.621 | (0.939) | 15726 | 12.5000 | 13 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.952 | 9.952 | (0.971) | 10482 | 12.5000 | 13 |
| \$ 6 Toluene-d8 | 98 | | | 11.519 | 11.519 | (0.911) | 47590 | 12.5000 | 13 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.487 | 13.487 | (0.937) | 16409 | 12.5000 | 13 (M) |
| 8 Dichlorodifluoromethane | 85 | | | 3.858 | 3.858 | (0.376) | 28736 | 12.5000 | 13 |
| 9 Chloromethane | 50 | | | 4.328 | 4.328 | (0.422) | 16145 | 12.5000 | 13 |
| 10 Vinyl Chloride | 62 | | | 4.606 | 4.606 | (0.449) | 10339 | 12.5000 | 13 |
| 11 Bromomethane | 94 | | | 5.407 | 5.407 | (0.528) | 5325 | 12.5000 | 13 |
| 12 Chloroethane | 64 | | | 5.616 | 5.616 | (0.548) | 6240 | 12.5000 | 13 |
| 13 Trichlorofluoromethane | 101 | | | 6.121 | 6.121 | (0.597) | 13831 | 12.5000 | 13 |
| 14 Acrolein | 56 | | | 6.835 | 6.835 | (0.667) | 5489 | 125.000 | 130 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | | | 6.957 | 6.957 | (0.679) | 7814 | 12.5000 | 13 |

Zh
3/23/09

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | 6.975 | 6.975 | (0.681) | 8647 | 12.5000 | 13 |
| 17 1,1-Dichloroethene | 96 | 7.009 | 7.009 | (0.684) | 15831 | 12.5000 | 13 |
| 18 Acetone | 43 | 7.062 | 7.062 | (0.689) | 9981 | 62.5000 | 63 |
| 19 Iodomethane | 142 | 7.253 | 7.253 | (0.708) | 24496 | 12.5000 | 13 |
| 20 Carbon disulfide | 76 | 7.358 | 7.358 | (0.718) | 60413 | 12.5000 | 13 |
| 22 3-Chloropropene | 39 | 7.514 | 7.514 | (0.733) | 15970 | 12.5000 | 13 |
| 23 Acetonitrile | 41 | 7.514 | 7.514 | (0.733) | 22071 | 12.5000 | 13 |
| 24 Methyl acetate | 43 | 7.514 | 7.514 | (0.733) | 10116 | 12.5000 | 13 |
| 25 Methylene Chloride | 84 | 7.706 | 7.706 | (0.752) | 17707 | 12.5000 | 13 |
| 26 Acrylonitrile | 53 | 8.002 | 8.002 | (0.781) | 13630 | 125.000 | 130 |
| 28 trans-1,2-Dichloroethene | 96 | 8.037 | 8.037 | (0.784) | 17350 | 12.5000 | 13 |
| 27 Methyl-tert-butyl ether | 73 | 8.019 | 8.019 | (0.783) | 14815 | 12.5000 | 13 |
| 30 Isopropyl ether | 45 | 8.559 | 8.559 | (0.835) | 33945 | 12.5000 | 13 |
| 31 Vinyl acetate | 43 | 8.559 | 8.559 | (0.835) | 16203 | 25.0000 | 25 (M) |
| 32 1,1-Dichloroethane | 63 | 8.559 | 8.559 | (0.835) | 29030 | 12.5000 | 13 |
| 33 Chloroprene | 53 | 8.646 | 8.646 | (0.844) | 17600 | 12.5000 | 13 |
| 34 2-butanone | 43 | 9.134 | 9.134 | (0.891) | 8584 | 62.5000 | 63 |
| 35 2,2-Dichloropropane | 77 | 9.186 | 9.186 | (0.896) | 21025 | 12.5000 | 13 |
| 36 cis-1,2-Dichloroethene | 96 | 9.186 | 9.186 | (0.896) | 14729 | 12.5000 | 13 |
| 37 Propionitrile | 54 | 9.203 | 9.203 | (0.898) | 26717 | 625.000 | 630 |
| 38 Methacrylonitrile | 41 | 9.360 | 9.360 | (0.913) | 24525 | 125.000 | 130 |
| 39 Bromochloromethane | 128 | 9.430 | 9.430 | (0.920) | 6027 | 12.5000 | 13 |
| 40 Chloroform | 83 | 9.464 | 9.464 | (0.924) | 26015 | 12.5000 | 13 |
| 42 1,1,1-Trichloroethane | 97 | 9.673 | 9.673 | (0.944) | 21044 | 12.5000 | 13 |
| 43 Cyclohexane | 84 | 9.743 | 9.743 | (0.951) | 18621 | 12.5000 | 13 |
| 44 1,1-dichloropropene | 75 | 9.830 | 9.830 | (0.959) | 17872 | 12.5000 | 13 |
| 45 Isobutyl alcohol | 43 | 9.795 | 9.795 | (0.956) | 8028 | 625.000 | 630 |
| 46 Carbon Tetrachloride | 117 | 9.830 | 9.830 | (0.959) | 18090 | 12.5000 | 13 |
| 47 Benzene | 78 | 10.004 | 10.004 | (0.976) | 55575 | 12.5000 | 13 |
| 48 1,2-Dichloroethane | 62 | 10.022 | 10.022 | (0.978) | 11506 | 12.5000 | 13 |
| 49 Trichloroethene | 130 | 10.561 | 10.561 | (1.031) | 15218 | 12.5000 | 13 |
| 50 Methylcyclohexane | 83 | 10.736 | 10.736 | (1.048) | 16926 | 12.5000 | 13 |
| 51 1,2-Dichloropropane | 63 | 10.753 | 10.753 | (1.049) | 12762 | 12.5000 | 13 |
| 52 Methylmethacrylate | 69 | 10.736 | 10.736 | (1.048) | 27932 | 125.000 | 130 |
| 53 1,4-dioxane | 88 | 10.823 | 10.823 | (1.056) | 1747 | 625.000 | 630 |
| 54 Dibromomethane | 174 | 10.875 | 10.875 | (1.061) | 5519 | 12.5000 | 13 |
| 55 Bromodichloromethane | 83 | 10.962 | 10.962 | (1.070) | 14945 | 12.5000 | 13 |
| 56 2-chloroethyl vinyl ether | 63 | 11.136 | 11.136 | (1.087) | 2645 | 125.000 | 130 |
| 57 cis-1,3-Dichloropropene | 75 | 11.310 | 11.310 | (1.104) | 14581 | 12.5000 | 13 |
| 58 4-Methyl-2-pentanone | 43 | 11.362 | 11.362 | (0.898) | 17119 | 62.5000 | 63 |
| 59 Toluene | 92 | 11.589 | 11.589 | (0.916) | 27061 | 12.5000 | 13 |
| 60 Ethylmethacrylate | 69 | 11.693 | 11.693 | (0.924) | 56081 | 125.000 | 130 |
| 61 trans-1,3-Dichloropropene | 75 | 11.728 | 11.728 | (0.927) | 11512 | 12.5000 | 13 |
| 62 1,1,2-Trichloroethane | 97 | 11.885 | 11.885 | (0.939) | 6865 | 12.5000 | 13 |
| 63 2-hexanone | 43 | 11.989 | 11.989 | (0.948) | 10258 | 62.5000 | 63 (M) |
| 64 1,3-Dichloropropane | 76 | 12.024 | 12.024 | (0.950) | 10864 | 12.5000 | 13 |
| 65 Tetrachloroethene | 164 | 12.041 | 12.041 | (0.952) | 11004 | 12.5000 | 13 |

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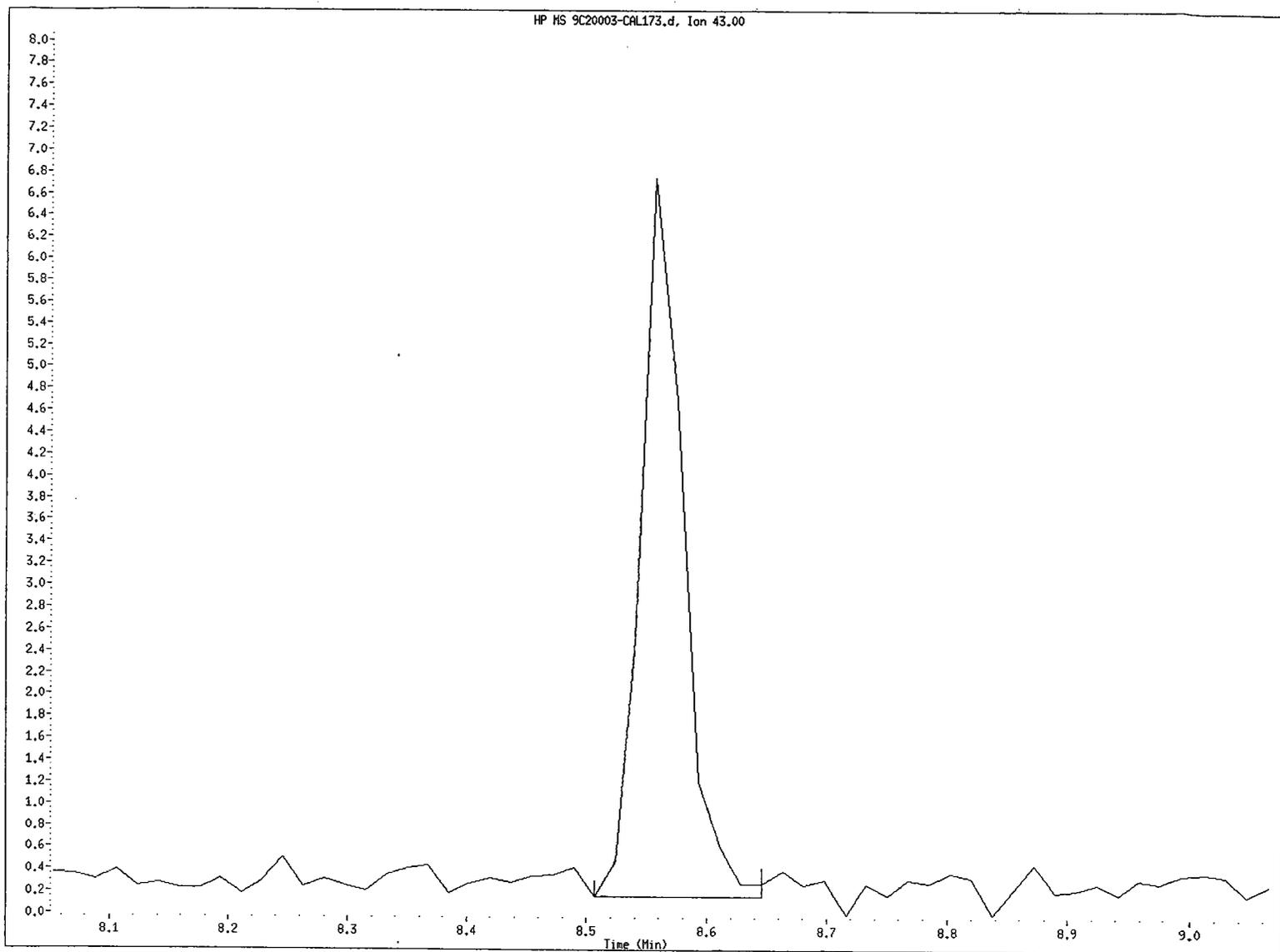
| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 66 Dibromochloromethane | 129 | 12.216 | 12.216 | (0.966) | 8458 | 12.5000 | 13 |
| 67 1,2-Dibromoethane | 107 | 12.338 | 12.338 | (0.975) | 5890 | 12.5000 | 13 |
| 68 1-Chlorohexane | 55 | 12.564 | 12.564 | (0.993) | 12164 | 12.5000 | 13 |
| 69 Chlorobenzene | 112 | 12.668 | 12.668 | (1.001) | 30199 | 12.5000 | 13 |
| 70 Ethylbenzene | 106 | 12.703 | 12.703 | (1.004) | 14090 | 12.5000 | 13 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.721 | 12.721 | (1.006) | 11167 | 12.5000 | 13 |
| 72 m,p-Xylene | 106 | 12.773 | 12.773 | (1.010) | 33659 | 25.0000 | 25 |
| 73 o-Xylene | 106 | 13.086 | 13.086 | (1.034) | 16023 | 12.5000 | 13 |
| 74 Styrene | 104 | 13.086 | 13.086 | (1.034) | 26172 | 12.5000 | 13 |
| 75 Bromoform | 173 | 13.278 | 13.278 | (1.050) | 3603 | 12.5000 | 13 (M) |
| 76 Isopropyl Benzene | 105 | 13.330 | 13.330 | (1.054) | 43059 | 12.5000 | 13 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.539 | 13.539 | (0.941) | 7238 | 12.5000 | 13 |
| 79 1,2,3-Trichloropropane | 110 | 13.609 | 13.609 | (1.076) | 1579 | 12.5000 | 13 (M) |
| 80 n-Propyl Benzene | 91 | 13.626 | 13.626 | (0.947) | 55424 | 12.5000 | 13 |
| 81 Bromobenzene | 156 | 13.643 | 13.643 | (1.078) | 12385 | 12.5000 | 13 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.730 | 13.730 | (0.954) | 31735 | 12.5000 | 13 |
| 83 2-Chlorotoluene | 126 | 13.748 | 13.748 | (0.955) | 13108 | 12.5000 | 13 |
| 84 4-Chlorotoluene | 126 | 13.835 | 13.835 | (0.961) | 11834 | 12.5000 | 13 |
| 85 tert-Butyl Benzene | 119 | 14.009 | 14.009 | (0.973) | 39457 | 12.5000 | 13 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.044 | 14.044 | (0.976) | 32796 | 12.5000 | 13 |
| 87 Pentachloroethane | 167 | 14.079 | 14.079 | (0.978) | 7691 | 12.5000 | 13 |
| 88 sec-Butyl Benzene | 105 | 14.166 | 14.166 | (0.984) | 48904 | 12.5000 | 13 |
| 89 p-Isopropyl Toluene | 119 | 14.253 | 14.253 | (0.990) | 34872 | 12.5000 | 13 |
| 90 1,3-Dichlorobenzene | 146 | 14.357 | 14.357 | (0.998) | 27563 | 12.5000 | 13 |
| 91 1,4-Dichlorobenzene | 146 | 14.410 | 14.410 | (1.001) | 28550 | 12.5000 | 13 |
| 92 n-Butyl Benzene | 91 | 14.601 | 14.601 | (1.015) | 38711 | 12.5000 | 13 |
| 93 1,2-Dichlorobenzene | 146 | 14.740 | 14.740 | (1.024) | 21877 | 12.5000 | 13 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.402 | 15.402 | (1.070) | 1664 | 12.5000 | 13 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.290 | 16.290 | (1.132) | 12817 | 12.5000 | 13 |
| 96 Hexachlorobutadiene | 225 | 16.395 | 16.395 | (1.139) | 8628 | 12.5000 | 13 |
| 97 Naphthalene | 128 | 16.586 | 16.586 | (1.152) | 14311 | 12.5000 | 13 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.899 | 16.899 | (1.174) | 10519 | 12.5000 | 13 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 32079 | 25.0000 | 25 |
| M 100 Xylene (total) | 106 | | | | 49682 | 12.5000 | 39 |

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QC Flag Legend

M - Compound response manually integrated.

Vinyl acetate CAS Number 108-05-4 Area = 16203 Manually integrated



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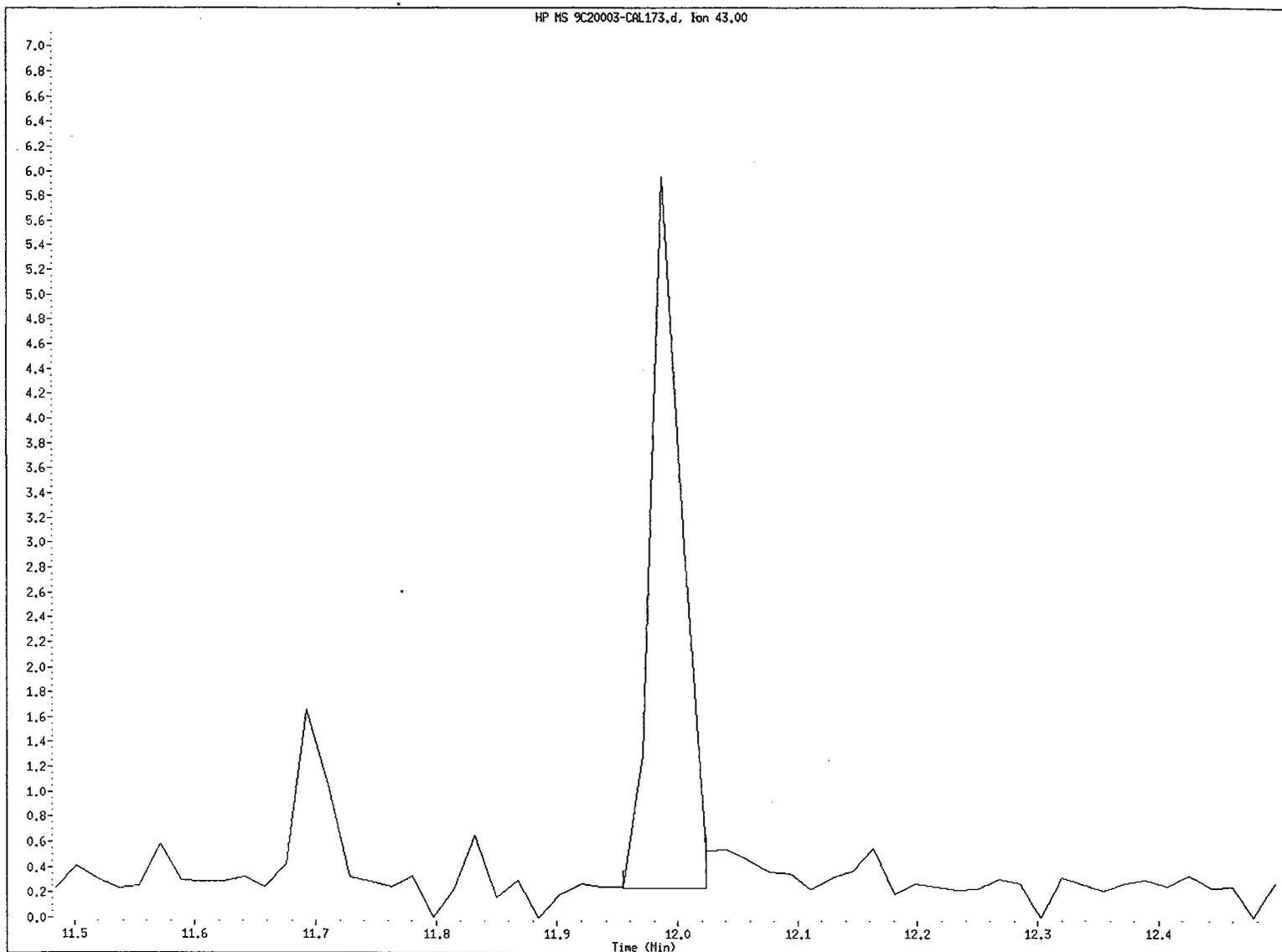
Instrument ID: 5972hp73.i

Injection Date and Time: 20-MAR-2009 13:14

Retention Time: 8.56

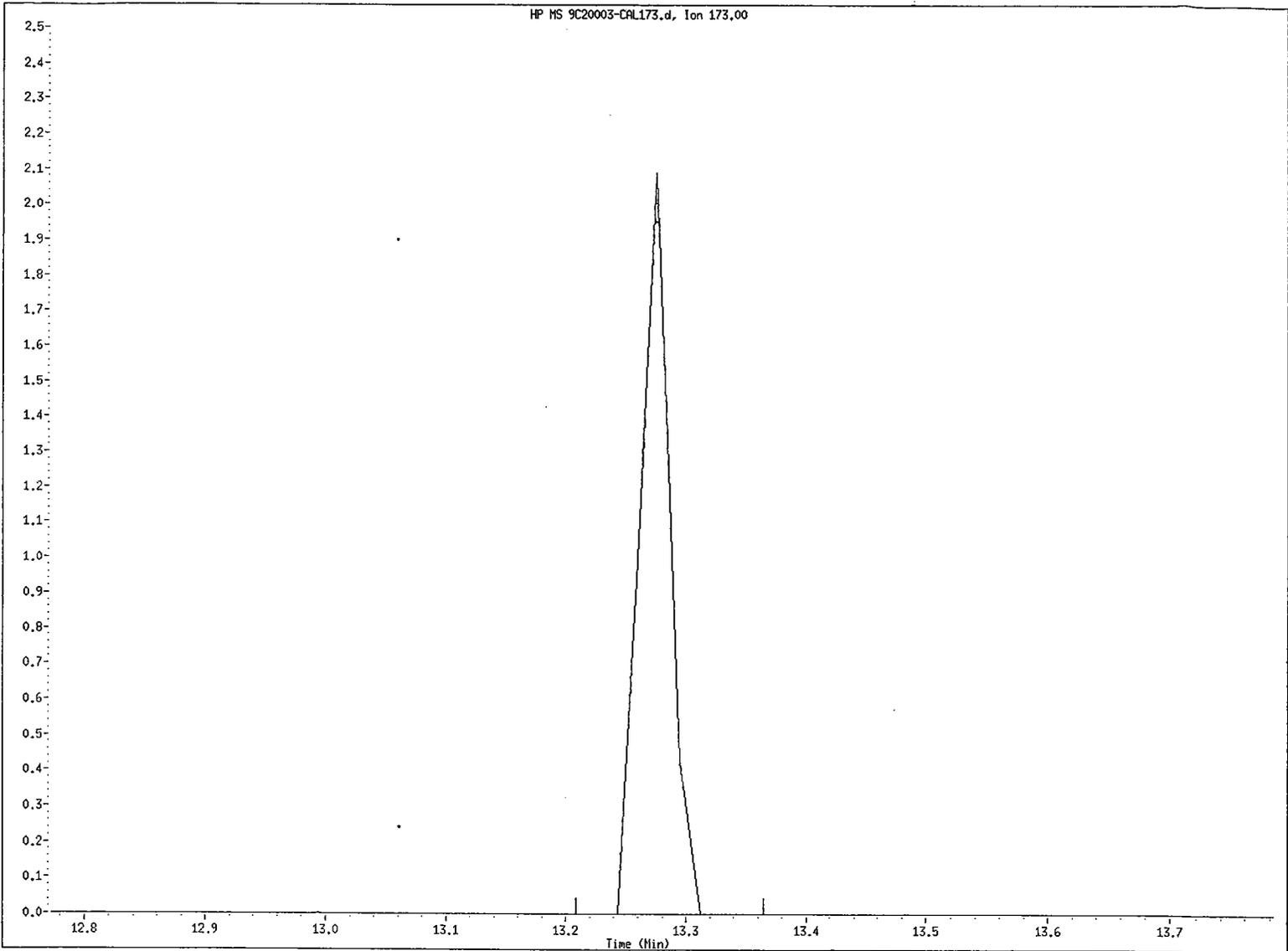
Operator ID: JAO

2-hexanone CAS Number 591-78-6 Area = 10258 Manually integrated



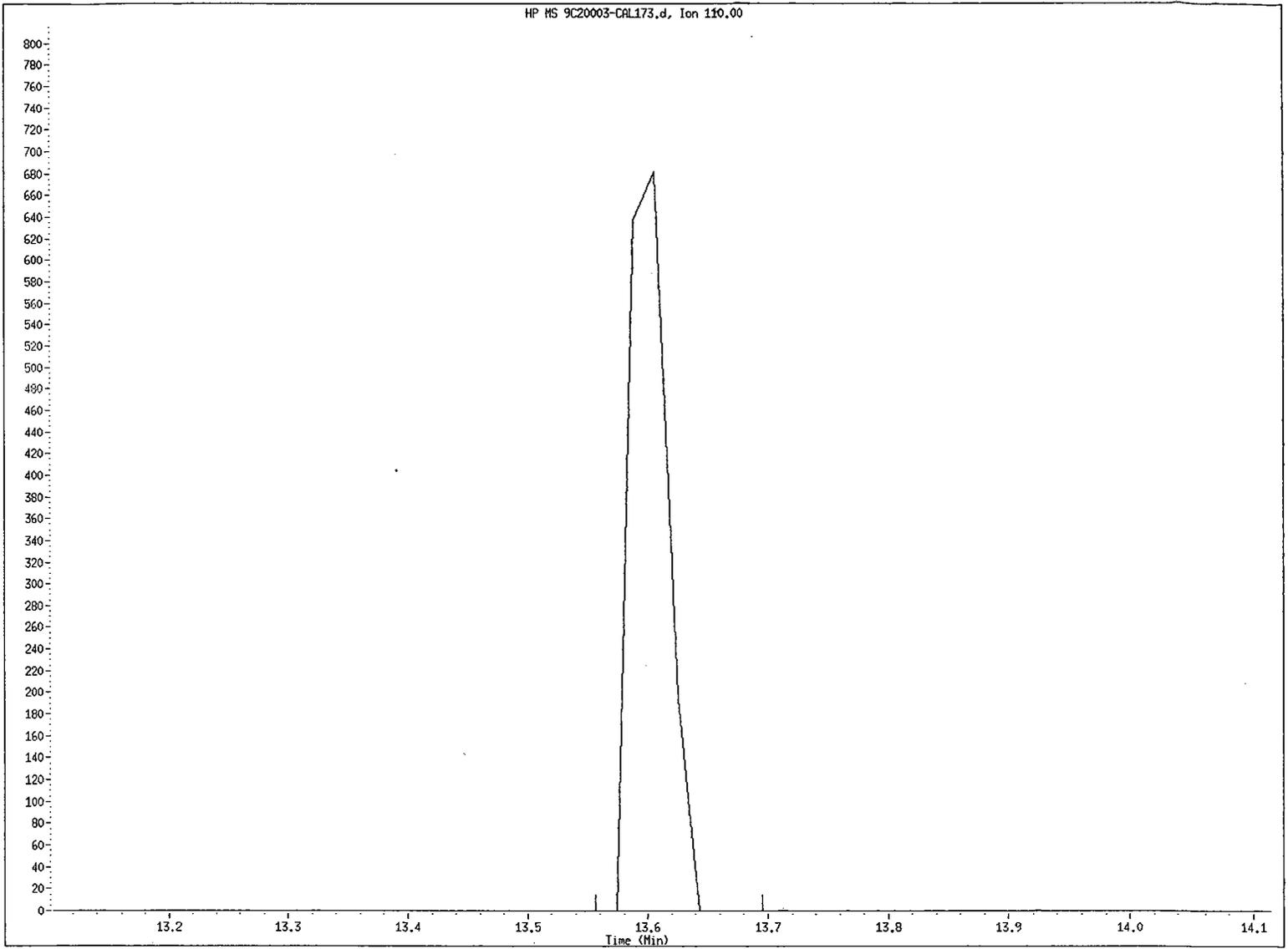
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Client ID: VSTD0.5
Instrument ID: 5972hp73.i
Injection Date and Time: 20-MAR-2009 13:14
Retention Time: 11.99
Operator ID: JAO

Bromoform CAS Number 75-25-2 Area = 3603 Manually integrated



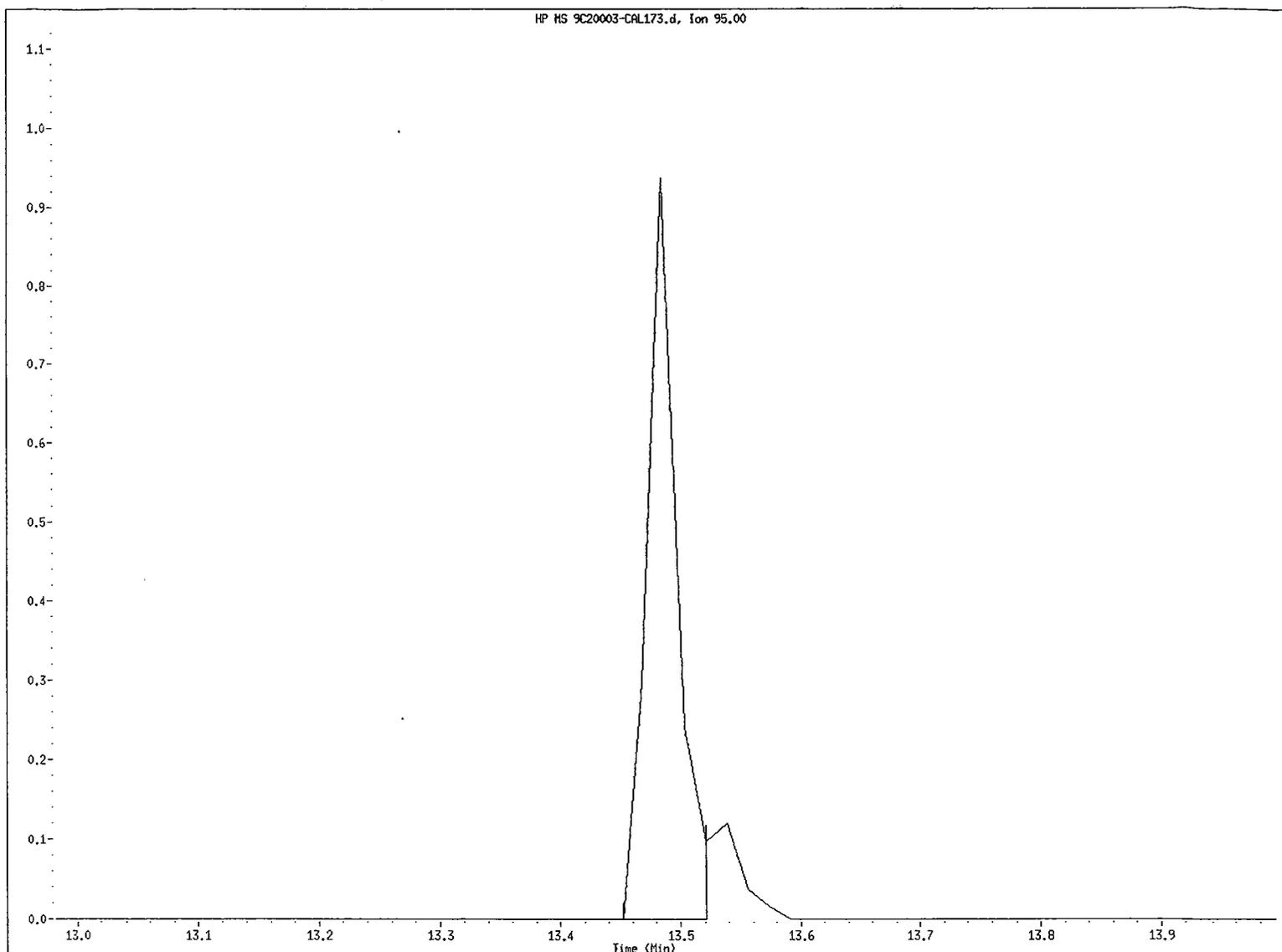
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Instrument ID: 5972hp73.i
Injection Date and Time: 20-MAR-2009 13:14
Retention Time: 13.28
Operator ID: JAO

1,2,3-Trichloropropane CAS Number 96-18-4 Area = 1579 Manually integrated



File name: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL173.d
Client ID: VSTD0.5
Instrument ID: 5972hp73.i
Injection Date and Time: 20-MAR-2009 13:14
Retention Time: 13.61
Operator ID: JAO

Bromofluorobenzene CAS Number 460-00-4 Area = 16409 Manually integrated



File name: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL173.d

Client ID: VSTD0.5

Instrument ID: 5972hp73.i

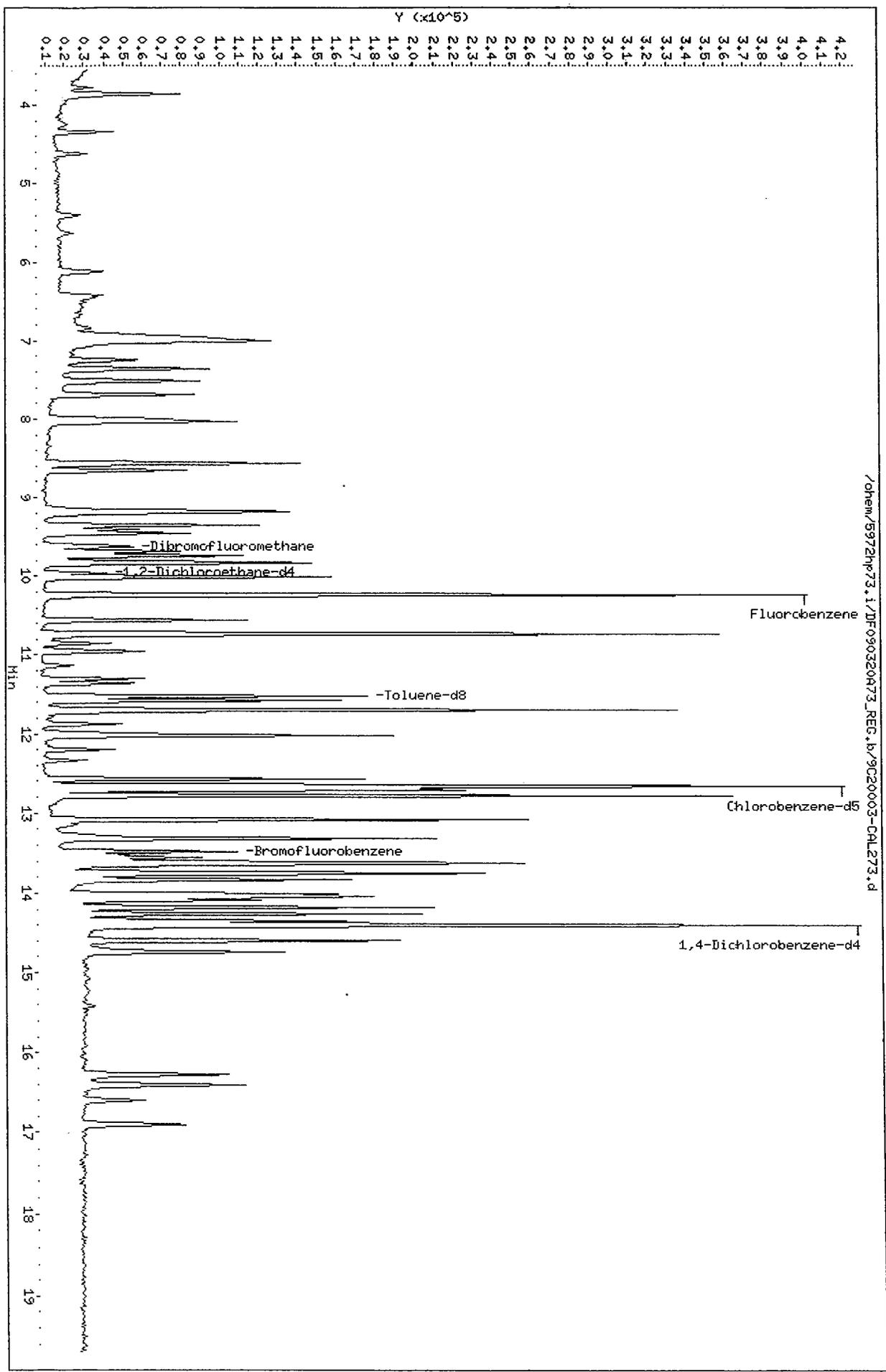
Injection Date and Time: 20-MAR-2009 13:14

Retention Time: 13.49

Operator ID: JAO

Data File: /chem/5972hp73.1/DF090320473_REC.b/9C20003-CAL273.d
 Date: 20-MAR-2009 12:45
 Client ID: VSTD001
 Sample Info: 9C20003-CAL2:JAO
 Purge Volume: 25.0
 Column phase: SPB-624

Instrument: 5972hp73.1
 Operator: JAO
 Column diameter: 0.32



Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL273.d
 Report Date: 23-Mar-2009 13:11

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL273.d
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 Inj Date : 20-MAR-2009 12:45
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C20003-CAL2:JAO
 Misc Info : VSTD001
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 Meth Date : 23-Mar-2009 13:11 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 12:45 Cal File: 9C20003-CAL273.d
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | .96 | | 10.236 | 10.236 | (1.000) | 380336 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.656 | 12.656 | (1.000) | 247076 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.397 | 14.397 | (1.000) | 118589 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.627 | 9.627 | (0.940) | 35983 | 25.0000 | 25 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.957 | 9.957 | (0.973) | 21868 | 25.0000 | 24 |
| \$ 6 Toluene-d8 | 98 | | 11.524 | 11.524 | (0.911) | 107102 | 25.0000 | 25 |
| \$ 7 Bromofluorobenzene | 95 | | 13.492 | 13.492 | (0.937) | 34186 | 25.0000 | 24 |
| 8 Dichlorodifluoromethane | 85 | | 3.863 | 3.863 | (0.377) | 72253 | 25.0000 | 26 |
| 9 Chloromethane | 50 | | 4.333 | 4.333 | (0.423) | 32735 | 25.0000 | 23 |
| 10 Vinyl Chloride | 62 | | 4.612 | 4.612 | (0.451) | 20730 | 25.0000 | 23 |
| 11 Bromomethane | 94 | | 5.395 | 5.395 | (0.527) | 11333 | 25.0000 | 24 |
| 12 Chloroethane | 64 | | 5.622 | 5.622 | (0.549) | 8331 | 25.0000 | 18 |
| 13 Trichlorofluoromethane | 101 | | 6.109 | 6.109 | (0.597) | 30680 | 25.0000 | 25 |
| 14 Acrolein | 56 | | 6.841 | 6.841 | (0.668) | 12839 | 250.000 | 250 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | | 6.945 | 6.945 | (0.678) | 20238 | 25.0000 | 26 |

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| Compounds | QUANT SIG | | | AMOUNTS | | | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | 6.980 | 6.980 | (0.682) | 22325 | 25.0000 | 26 |
| 17 1,1-Dichloroethene | 96 | 7.015 | 7.015 | (0.685) | 33283 | 25.0000 | 24 |
| 18 Acetone | 43 | 7.067 | 7.067 | (0.690) | 19719 | 125.000 | 120 |
| 19 Iodomethane | 142 | 7.241 | 7.241 | (0.707) | 55455 | 25.0000 | 25 |
| 20 Carbon disulfide | 76 | 7.363 | 7.363 | (0.719) | 132477 | 25.0000 | 24 |
| 22 3-Chloropropene | 39 | 7.520 | 7.520 | (0.735) | 31809 | 25.0000 | 23 |
| 23 Acetonitrile | 41 | 7.520 | 7.520 | (0.735) | 49709 | 25.0000 | 25 |
| 24 Methyl acetate | 43 | 7.520 | 7.520 | (0.735) | 21695 | 25.0000 | 24 |
| 25 Methylene Chloride | 84 | 7.694 | 7.694 | (0.752) | 34210 | 25.0000 | 23 |
| 26 Acrylonitrile | 53 | 8.007 | 8.007 | (0.782) | 33162 | 250.000 | 260 |
| 28 trans-1,2-Dichloroethene | 96 | 8.042 | 8.042 | (0.786) | 36169 | 25.0000 | 24 |
| 27 Methyl-tert-butyl ether | 73 | 8.025 | 8.025 | (0.784) | 36065 | 25.0000 | 26 |
| 30 Isopropyl ether | 45 | 8.564 | 8.564 | (0.837) | 77966 | 25.0000 | 25 |
| 31 Vinyl acetate | 43 | 8.564 | 8.564 | (0.837) | 32249 | 50.0000 | 46 (M) |
| 32 1,1-Dichloroethane | 63 | 8.564 | 8.564 | (0.837) | 61325 | 25.0000 | 24 |
| 33 Chloroprene | 53 | 8.651 | 8.651 | (0.845) | 45170 | 25.0000 | 26 |
| 34 2-butanone | 43 | 9.139 | 9.139 | (0.893) | 20427 | 125.000 | 130 |
| 35 2,2-Dichloropropane | 77 | 9.174 | 9.174 | (0.896) | 42679 | 25.0000 | 23 |
| 36 cis-1,2-Dichloroethene | 96 | 9.191 | 9.191 | (0.898) | 34223 | 25.0000 | 25 |
| 37 Propionitrile | 54 | 9.209 | 9.209 | (0.900) | 60815 | 1250.00 | 1200 |
| 38 Methacrylonitrile | 41 | 9.365 | 9.365 | (0.915) | 60188 | 250.000 | 260 |
| 39 Bromochloromethane | 128 | 9.418 | 9.418 | (0.920) | 13184 | 25.0000 | 24 |
| 40 Chloroform | 83 | 9.470 | 9.470 | (0.925) | 58256 | 25.0000 | 25 |
| 42 1,1,1-Trichloroethane | 97 | 9.679 | 9.679 | (0.946) | 46158 | 25.0000 | 24 |
| 43 Cyclohexane | 84 | 9.731 | 9.731 | (0.951) | 44137 | 25.0000 | 25 |
| 44 1,1-dichloropropene | 75 | 9.818 | 9.818 | (0.959) | 44957 | 25.0000 | 26 |
| 45 Isobutyl alcohol | 43 | 9.801 | 9.801 | (0.957) | 18492 | 1250.00 | 1200 |
| 46 Carbon Tetrachloride | 117 | 9.835 | 9.835 | (0.961) | 41895 | 25.0000 | 25 |
| 47 Benzene | 78 | 10.010 | 10.010 | (0.978) | 122418 | 25.0000 | 24 |
| 48 1,2-Dichloroethane | 62 | 10.027 | 10.027 | (0.980) | 25008 | 25.0000 | 24 |
| 49 Trichloroethene | 130 | 10.567 | 10.567 | (1.032) | 36665 | 25.0000 | 26 |
| 50 Methylcyclohexane | 83 | 10.741 | 10.741 | (1.049) | 51521 | 25.0000 | 28 |
| 51 1,2-Dichloropropane | 63 | 10.758 | 10.758 | (1.051) | 27542 | 25.0000 | 24 |
| 52 Methylmethacrylate | 69 | 10.741 | 10.741 | (1.049) | 80057 | 250.000 | 280 |
| 53 1,4-dioxane | 88 | 10.811 | 10.811 | (1.056) | 4091 | 1250.00 | 1300 |
| 54 Dibromomethane | 174 | 10.863 | 10.863 | (1.061) | 12013 | 25.0000 | 24 |
| 55 Bromodichloromethane | 83 | 10.950 | 10.950 | (1.070) | 32893 | 25.0000 | 24 |
| 56 2-chloroethyl vinyl ether | 63 | 11.124 | 11.124 | (1.087) | 8099 | 250.000 | 290 |
| 57 cis-1,3-Dichloropropene | 75 | 11.298 | 11.298 | (1.104) | 33617 | 25.0000 | 25 |
| 58 4-Methyl-2-pentanone | 43 | 11.350 | 11.350 | (0.897) | 45017 | 125.000 | 130 |
| 59 Toluene | 92 | 11.577 | 11.577 | (0.915) | 65788 | 25.0000 | 26 |
| 60 Ethylmethacrylate | 69 | 11.699 | 11.699 | (0.924) | 152971 | 250.000 | 270 |
| 61 trans-1,3-Dichloropropene | 75 | 11.716 | 11.716 | (0.926) | 26549 | 25.0000 | 25 |
| 62 1,1,2-Trichloroethane | 97 | 11.890 | 11.890 | (0.939) | 15262 | 25.0000 | 24 |
| 63 2-hexanone | 43 | 11.995 | 11.995 | (0.948) | 27818 | 125.000 | 130 |
| 64 1,3-Dichloropropane | 76 | 12.029 | 12.029 | (0.950) | 26419 | 25.0000 | 26 |
| 65 Tetrachloroethene | 164 | 12.029 | 12.029 | (0.950) | 31470 | 25.0000 | 28 |

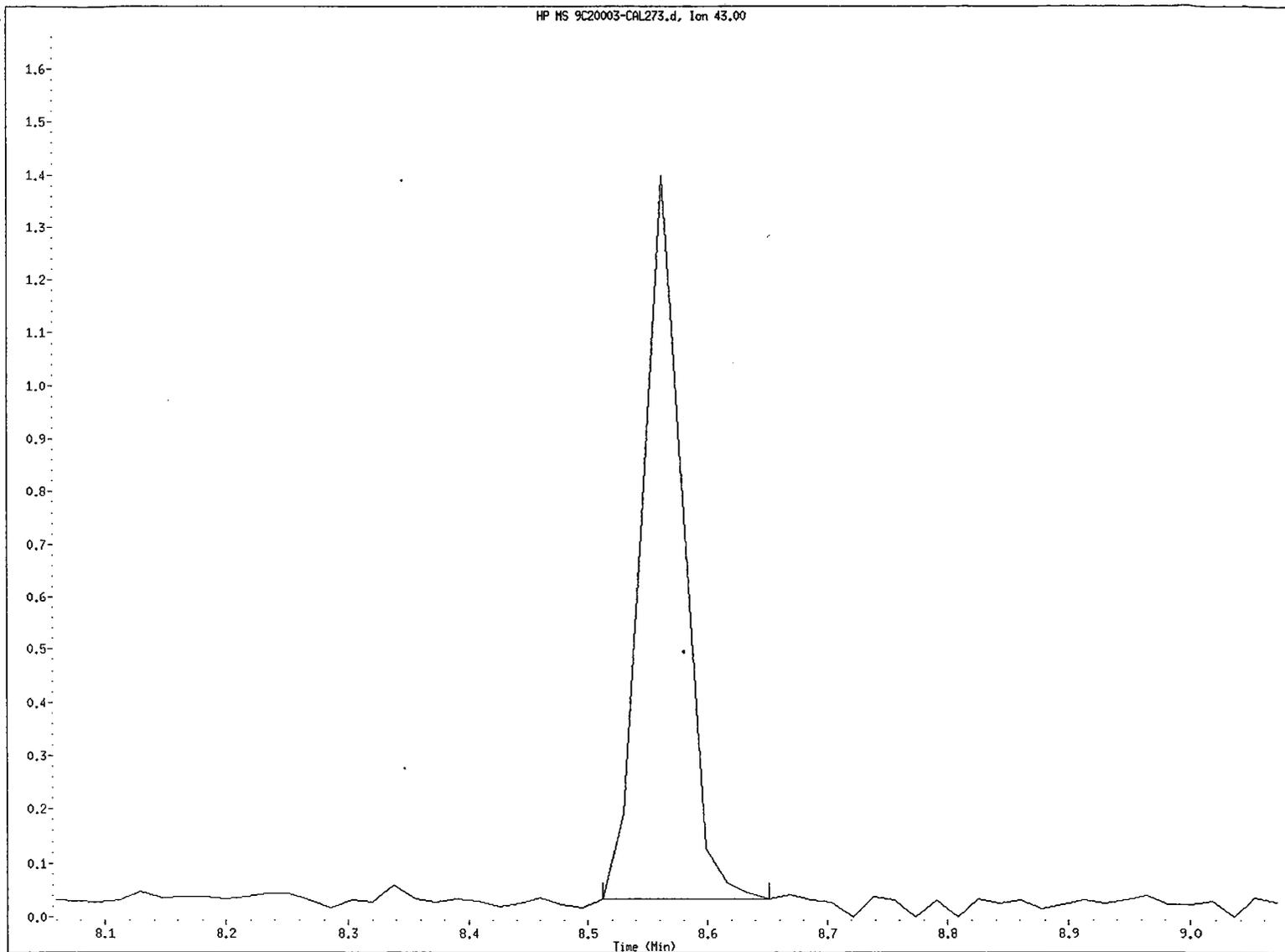
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| Compounds | QUANT SIG | | AMOUNTS | | | | |
|---------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 66 Dibromochloromethane | 129 | 12.204 | 12.204 | (0.964) | 19872 | 25.0000 | 25 |
| 67 1,2-Dibromoethane | 107 | 12.325 | 12.325 | (0.974) | 14209 | 25.0000 | 25 |
| 68 1-Chlorohexane | 55 | 12.569 | 12.569 | (0.993) | 34556 | 25.0000 | 28 |
| 69 Chlorobenzene | 112 | 12.674 | 12.674 | (1.001) | 74586 | 25.0000 | 26 |
| 70 Ethylbenzene | 106 | 12.709 | 12.709 | (1.004) | 40761 | 25.0000 | 28 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.709 | 12.709 | (1.004) | 24999 | 25.0000 | 25 |
| 72 m,p-Xylene | 106 | 12.778 | 12.778 | (1.010) | 97988 | 50.0000 | 56 |
| 73 o-Xylene | 106 | 13.074 | 13.074 | (1.033) | 44671 | 25.0000 | 27 |
| 74 Styrene | 104 | 13.092 | 13.092 | (1.034) | 64793 | 25.0000 | 26 |
| 75 Bromoform | 173 | 13.283 | 13.283 | (1.050) | 9922 | 25.0000 | 27 |
| 76 Isopropyl Benzene | 105 | 13.318 | 13.318 | (1.052) | 119827 | 25.0000 | 27 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.527 | 13.527 | (0.940) | 16483 | 25.0000 | 25 |
| 79 1,2,3-Trichloropropane | 110 | 13.597 | 13.597 | (1.074) | 3727 | 25.0000 | 25 |
| 80 n-Propyl Benzene | 91 | 13.631 | 13.631 | (0.947) | 167345 | 25.0000 | 28 |
| 81 Bromobenzene | 156 | 13.649 | 13.649 | (1.078) | 29308 | 25.0000 | 25 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.736 | 13.736 | (0.954) | 94622 | 25.0000 | 28 |
| 83 2-Chlorotoluene | 126 | 13.753 | 13.753 | (0.955) | 30781 | 25.0000 | 25 |
| 84 4-Chlorotoluene | 126 | 13.823 | 13.823 | (0.960) | 34951 | 25.0000 | 28 |
| 85 tert-Butyl Benzene | 119 | 13.997 | 13.997 | (0.972) | 105730 | 25.0000 | 27 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.032 | 14.032 | (0.975) | 93165 | 25.0000 | 27 |
| 87 Pentachloroethane | 167 | 14.084 | 14.084 | (0.978) | 17892 | 25.0000 | 25 |
| 88 sec-Butyl Benzene | 105 | 14.171 | 14.171 | (0.984) | 146569 | 25.0000 | 28 |
| 89 p-Isopropyl Toluene | 119 | 14.258 | 14.258 | (0.990) | 103809 | 25.0000 | 28 |
| 90 1,3-Dichlorobenzene | 146 | 14.345 | 14.345 | (0.996) | 66979 | 25.0000 | 25 |
| 91 1,4-Dichlorobenzene | 146 | 14.415 | 14.415 | (1.001) | 72393 | 25.0000 | 26 |
| 92 n-Butyl Benzene | 91 | 14.589 | 14.589 | (1.013) | 116063 | 25.0000 | 28 |
| 93 1,2-Dichlorobenzene | 146 | 14.746 | 14.746 | (1.024) | 51375 | 25.0000 | 25 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.407 | 15.407 | (1.070) | 3493 | 25.0000 | 24 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.295 | 16.295 | (1.132) | 33704 | 25.0000 | 26 |
| 96 Hexachlorobutadiene | 225 | 16.400 | 16.400 | (1.139) | 21983 | 25.0000 | 26 |
| 97 Naphthalene | 128 | 16.591 | 16.591 | (1.152) | 34455 | 25.0000 | 25 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.905 | 16.905 | (1.174) | 25592 | 25.0000 | 25 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 70392 | 50.0000 | 49 |
| M 100 Xylene (total) | 106 | | | | 142659 | 25.0000 | 87 |

QC Flag Legend

M - Compound response manually integrated.

Vinyl acetate CAS Number 108-05-4 Area = 32249 Manually integrated



File name: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL273.d

Client ID: VSTD001

Instrument ID: 5972hp73.i

Injection Date and Time: 20-MAR-2009 12:45

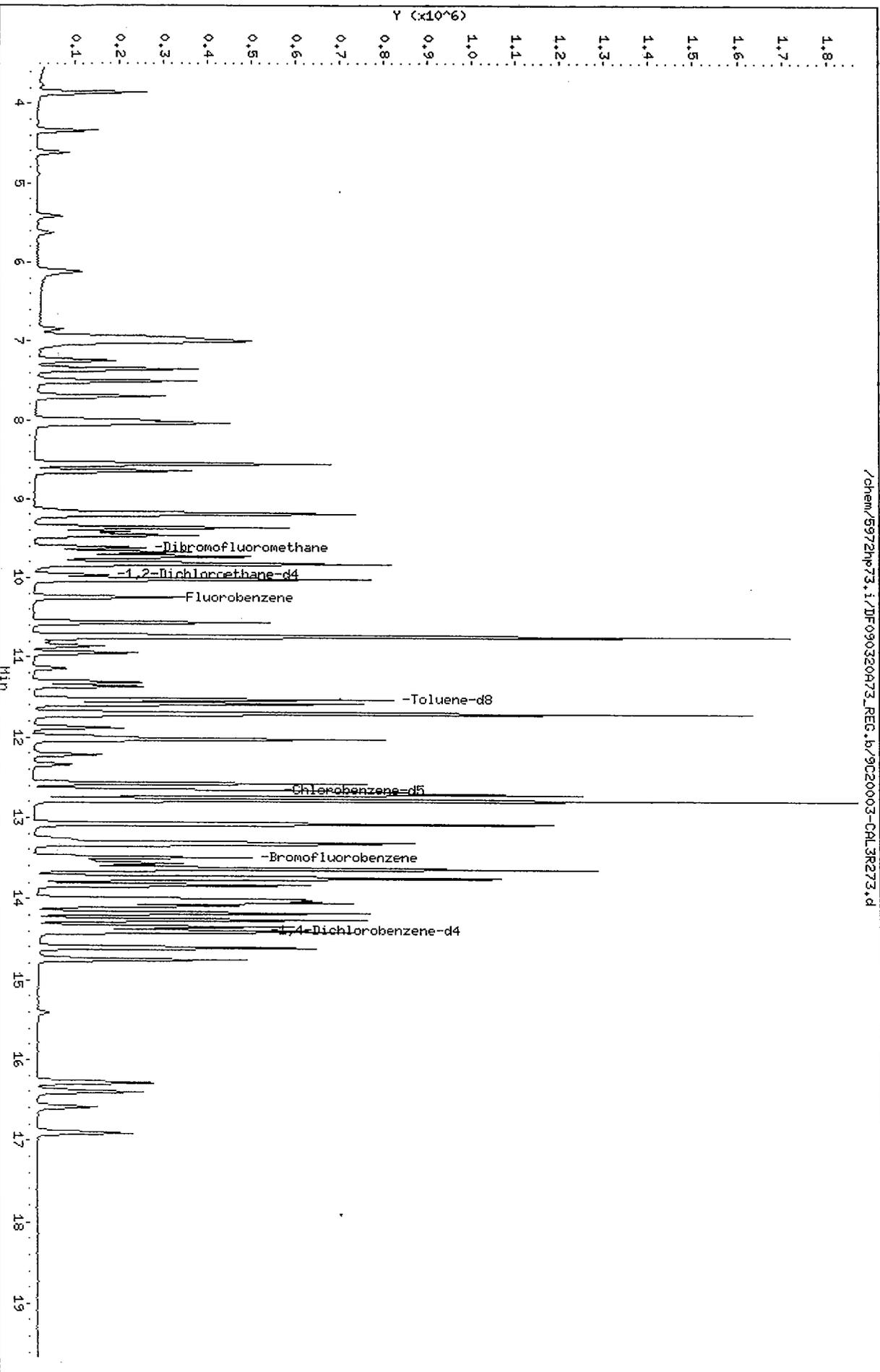
Retention Time: 8.56

Operator ID: JAO

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Sample Info: 9020003-CAL3;JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32

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Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL3R273.d
 Report Date: 23-Mar-2009 13:11

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL3R273.d
 Lab Smp Id: 9C20003-CAL3 Client Smp ID: VSTD005
 Inj Date : 20-MAR-2009 16:10
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C20003-CAL3:JAO
 Misc Info : VSTD005
 Comment :
 Method : /chem/5972hp73.i/DF090320A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 23-Mar-2009 13:11 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 16:10 Cal File: 9C20003-CAL3R273.d
 Als bottle: 2 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|----------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | 10.252 | 10.252 | (1.000) | 359660 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | 12.655 | 12.655 | (1.000) | 240864 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.396 | 14.396 | (1.000) | 111410 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | 9.625 | 9.625 | (0.939) | 164504 | 125.000 | 120 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | 9.956 | 9.956 | (0.971) | 103817 | 125.000 | 120 |
| \$ 6 Toluene-d8 | 98 | 11.523 | 11.523 | (0.911) | 529124 | 125.000 | 120 |
| \$ 7 Bromofluorobenzene | 95 | 13.491 | 13.491 | (0.937) | 173768 | 125.000 | 130 (M) |
| 8 Dichlorodifluoromethane | 85 | 3.862 | 3.862 | (0.377) | 290194 | 125.000 | 120 |
| 9 Chloromethane | 50 | 4.332 | 4.332 | (0.423) | 159118 | 125.000 | 120 |
| 10 Vinyl Chloride | 62 | 4.611 | 4.611 | (0.450) | 95041 | 125.000 | 120 |
| 11 Bromomethane | 94 | 5.412 | 5.412 | (0.528) | 52117 | 125.000 | 120 |
| 12 Chloroethane | 64 | 5.620 | 5.620 | (0.548) | 39997 | 125.000 | 100 |
| 13 Trichlorofluoromethane | 101 | 6.125 | 6.125 | (0.597) | 146390 | 125.000 | 120 |
| 14 Acrolein | 56 | 6.839 | 6.839 | (0.667) | 60786 | 1250.00 | 1300 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | 6.944 | 6.944 | (0.677) | 102322 | 125.000 | 140 |

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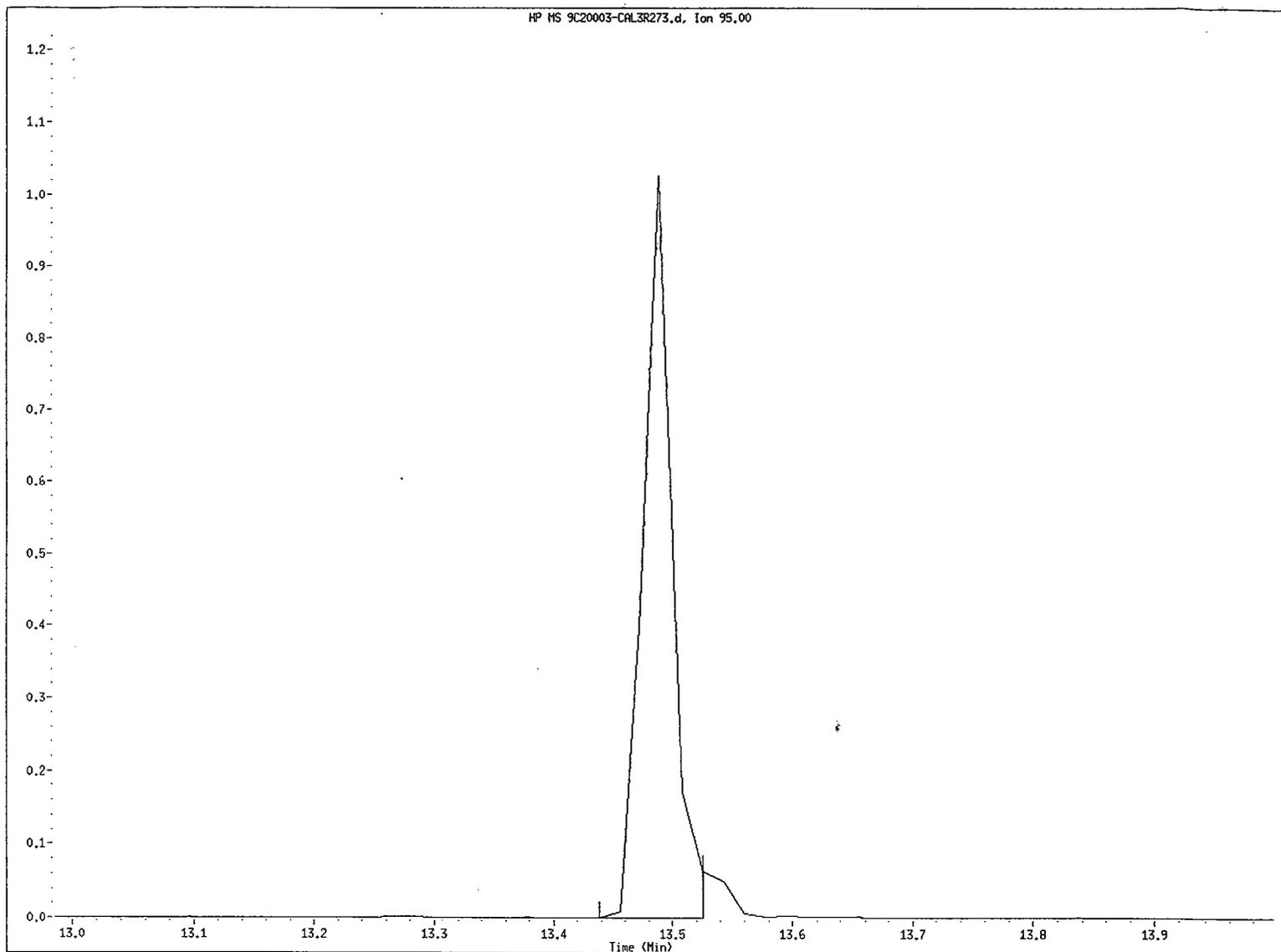
| Compounds | QUANT SIG | | | | AMOUNTS | | |
|--|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 16 1,1,2-trichloro-1,2,2-trifluoroethane | 85 | 6.979 | 6.979 | (0.681) | 109428 | 125.000 | 130 |
| 17 1,1-Dichloroethene | 96 | 7.013 | 7.013 | (0.684) | 155233 | 125.000 | 120 |
| 18 Acetone | 43 | 7.066 | 7.066 | (0.689) | 63082 | 625.000 | 450 |
| 19 Iodomethane | 142 | 7.257 | 7.257 | (0.708) | 250558 | 125.000 | 120 |
| 20 Carbon disulfide | 76 | 7.362 | 7.362 | (0.718) | 635875 | 125.000 | 120 |
| 22 3-Chloropropene | 39 | 7.518 | 7.518 | (0.733) | 156364 | 125.000 | 120 |
| 23 Acetonitrile | 41 | 7.518 | 7.518 | (0.733) | 232402 | 125.000 | 120 |
| 24 Methyl acetate | 43 | 7.518 | 7.518 | (0.733) | 95643 | 125.000 | 120 |
| 25 Methylene Chloride | 84 | 7.693 | 7.693 | (0.750) | 156753 | 125.000 | 110 |
| 26 Acrylonitrile | 53 | 7.989 | 7.989 | (0.779) | 161507 | 1250.00 | 1300 |
| 28 trans-1,2-Dichloroethene | 96 | 8.041 | 8.041 | (0.784) | 188106 | 125.000 | 130 |
| 27 Methyl-tert-butyl ether | 73 | 8.023 | 8.023 | (0.783) | 172073 | 125.000 | 130 |
| 30 Isopropyl ether | 45 | 8.563 | 8.563 | (0.835) | 403894 | 125.000 | 130 |
| 31 Vinyl acetate | 43 | 8.563 | 8.563 | (0.835) | 169726 | 250.000 | 260 |
| 32 1,1-Dichloroethane | 63 | 8.563 | 8.563 | (0.835) | 295696 | 125.000 | 120 |
| 33 Chloroprene | 53 | 8.650 | 8.650 | (0.844) | 229285 | 125.000 | 140 |
| 34 2-butanone | 43 | 9.138 | 9.138 | (0.891) | 94609 | 625.000 | 620 |
| 35 2,2-Dichloropropane | 77 | 9.190 | 9.190 | (0.896) | 237705 | 125.000 | 130 |
| 36 cis-1,2-Dichloroethene | 96 | 9.190 | 9.190 | (0.896) | 168579 | 125.000 | 130 |
| 37 Propionitrile | 54 | 9.207 | 9.207 | (0.898) | 285004 | 6250.00 | 6200 |
| 38 Methacrylonitrile | 41 | 9.364 | 9.364 | (0.913) | 305739 | 1250.00 | 1300 |
| 39 Bromochloromethane | 128 | 9.416 | 9.416 | (0.918) | 60610 | 125.000 | 120 |
| 40 Chloroform | 83 | 9.469 | 9.469 | (0.924) | 278063 | 125.000 | 120 |
| 42 1,1,1-Trichloroethane | 97 | 9.678 | 9.678 | (0.944) | 240286 | 125.000 | 130 |
| 43 Cyclohexane | 84 | 9.747 | 9.747 | (0.951) | 231629 | 125.000 | 140 |
| 44 1,1-dichloropropene | 75 | 9.834 | 9.834 | (0.959) | 236808 | 125.000 | 140 |
| 45 Isobutyl alcohol | 43 | 9.799 | 9.799 | (0.956) | 72558 | 6250.00 | 5500 |
| 46 Carbon Tetrachloride | 117 | 9.834 | 9.834 | (0.959) | 221180 | 125.000 | 130 |
| 47 Benzene | 78 | 10.008 | 10.008 | (0.976) | 612398 | 125.000 | 130 |
| 48 1,2-Dichloroethane | 62 | 10.026 | 10.026 | (0.978) | 119660 | 125.000 | 120 |
| 49 Trichloroethene | 130 | 10.566 | 10.566 | (1.031) | 172520 | 125.000 | 130 |
| 50 Methylcyclohexane | 83 | 10.740 | 10.740 | (1.048) | 239315 | 125.000 | 130 |
| 51 1,2-Dichloropropane | 63 | 10.757 | 10.757 | (1.049) | 136312 | 125.000 | 130 |
| 52 Methylmethacrylate | 69 | 10.740 | 10.740 | (1.048) | 398109 | 1250.00 | 1400 |
| 53 1,4-dioxane | 88 | 10.809 | 10.809 | (1.054) | 19669 | 6250.00 | 6400 |
| 54 Dibromomethane | 174 | 10.862 | 10.862 | (1.059) | 58786 | 125.000 | 130 |
| 55 Bromodichloromethane | 83 | 10.949 | 10.949 | (1.068) | 167848 | 125.000 | 130 |
| 56 2-chloroethyl vinyl ether | 63 | 11.140 | 11.140 | (1.087) | 37008 | 1250.00 | 1300 |
| 57 cis-1,3-Dichloropropene | 75 | 11.314 | 11.314 | (1.104) | 173732 | 125.000 | 130 |
| 58 4-Methyl-2-pentanone | 43 | 11.367 | 11.367 | (0.898) | 222681 | 625.000 | 660 |
| 59 Toluene | 92 | 11.575 | 11.575 | (0.915) | 363449 | 125.000 | 140 |
| 60 Ethylmethacrylate | 69 | 11.697 | 11.697 | (0.924) | 781605 | 1250.00 | 1400 |
| 61 trans-1,3-Dichloropropene | 75 | 11.732 | 11.732 | (0.927) | 138576 | 125.000 | 130 |
| 62 1,1,2-Trichloroethane | 97 | 11.889 | 11.889 | (0.939) | 70178 | 125.000 | 120 |
| 63 2-hexanone | 43 | 11.993 | 11.993 | (0.948) | 139998 | 625.000 | 670 |
| 64 1,3-Dichloropropane | 76 | 12.028 | 12.028 | (0.950) | 126300 | 125.000 | 130 |
| 65 Tetrachloroethene | 164 | 12.028 | 12.028 | (0.950) | 145051 | 125.000 | 130 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | |
| 66 Dibromochloromethane | 129 | 12.202 | 12.202 | (0.964) | 95225 | 125.000 | 120 |
| 67 1,2-Dibromoethane | 107 | 12.324 | 12.324 | (0.974) | 72144 | 125.000 | 130 |
| 68 1-Chlorohexane | 55 | 12.568 | 12.568 | (0.993) | 150893 | 125.000 | 120 |
| 69 Chlorobenzene | 112 | 12.672 | 12.672 | (1.001) | 386715 | 125.000 | 130 |
| 70 Ethylbenzene | 106 | 12.707 | 12.707 | (1.004) | 216141 | 125.000 | 140 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.707 | 12.707 | (1.004) | 130469 | 125.000 | 130 |
| 72 m,p-Xylene | 106 | 12.777 | 12.777 | (1.010) | 522998 | 250.000 | 280 |
| 73 o-Xylene | 106 | 13.073 | 13.073 | (1.033) | 247511 | 125.000 | 140 |
| 74 Styrene | 104 | 13.090 | 13.090 | (1.034) | 364927 | 125.000 | 140 |
| 75 Bromoform | 173 | 13.282 | 13.282 | (1.050) | 48744 | 125.000 | 130 |
| 76 Isopropyl Benzene | 105 | 13.317 | 13.317 | (1.052) | 649378 | 125.000 | 140 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.526 | 13.526 | (0.940) | 82185 | 125.000 | 130 |
| 79 1,2,3-Trichloropropane | 110 | 13.595 | 13.595 | (1.074) | 19093 | 125.000 | 130 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.560 | 13.560 | (1.072) | 69929 | 500.000 | 520 |
| 80 n-Propyl Benzene | 91 | 13.630 | 13.630 | (0.947) | 811630 | 125.000 | 140 |
| 81 Bromobenzene | 156 | 13.647 | 13.647 | (1.078) | 145961 | 125.000 | 130 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.735 | 13.735 | (0.954) | 480492 | 125.000 | 140 |
| 83 2-Chlorotoluene | 126 | 13.752 | 13.752 | (0.955) | 164120 | 125.000 | 140 |
| 84 4-Chlorotoluene | 126 | 13.839 | 13.839 | (0.961) | 153227 | 125.000 | 130 |
| 85 tert-Butyl Benzene | 119 | 14.013 | 14.013 | (0.973) | 477507 | 125.000 | 130 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.048 | 14.048 | (0.976) | 480519 | 125.000 | 140 |
| 87 Pentachloroethane | 167 | 14.083 | 14.083 | (0.978) | 83283 | 125.000 | 120 |
| 88 sec-Butyl Benzene | 105 | 14.170 | 14.170 | (0.984) | 633937 | 125.000 | 130 |
| 89 p-Isopropyl Toluene | 119 | 14.257 | 14.257 | (0.990) | 483674 | 125.000 | 130 |
| 90 1,3-Dichlorobenzene | 146 | 14.344 | 14.344 | (0.996) | 288989 | 125.000 | 120 |
| 91 1,4-Dichlorobenzene | 146 | 14.414 | 14.414 | (1.001) | 289596 | 125.000 | 120 |
| 92 n-Butyl Benzene | 91 | 14.605 | 14.605 | (1.014) | 471068 | 125.000 | 120 |
| 93 1,2-Dichlorobenzene | 146 | 14.744 | 14.744 | (1.024) | 228986 | 125.000 | 120 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.406 | 15.406 | (1.070) | 9072 | 125.000 | 78 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.294 | 16.294 | (1.132) | 129565 | 125.000 | 110 |
| 96 Hexachlorobutadiene | 225 | 16.399 | 16.399 | (1.139) | 63731 | 125.000 | 91 |
| 97 Naphthalene | 128 | 16.590 | 16.590 | (1.152) | 150491 | 125.000 | 120 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.904 | 16.904 | (1.174) | 99208 | 125.000 | 110 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 356685 | 250.000 | 260 |
| M 100 Xylene (total) | 106 | | | | 770509 | 125.000 | 450 |

QC Flag Legend

M - Compound response manually integrated.

Bromofluorobenzene CAS Number 460-00-4 Area = 173768 Manually integrated



File name: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL3R273.d

Client ID: VSTD005

Instrument ID: 5972hp73.i

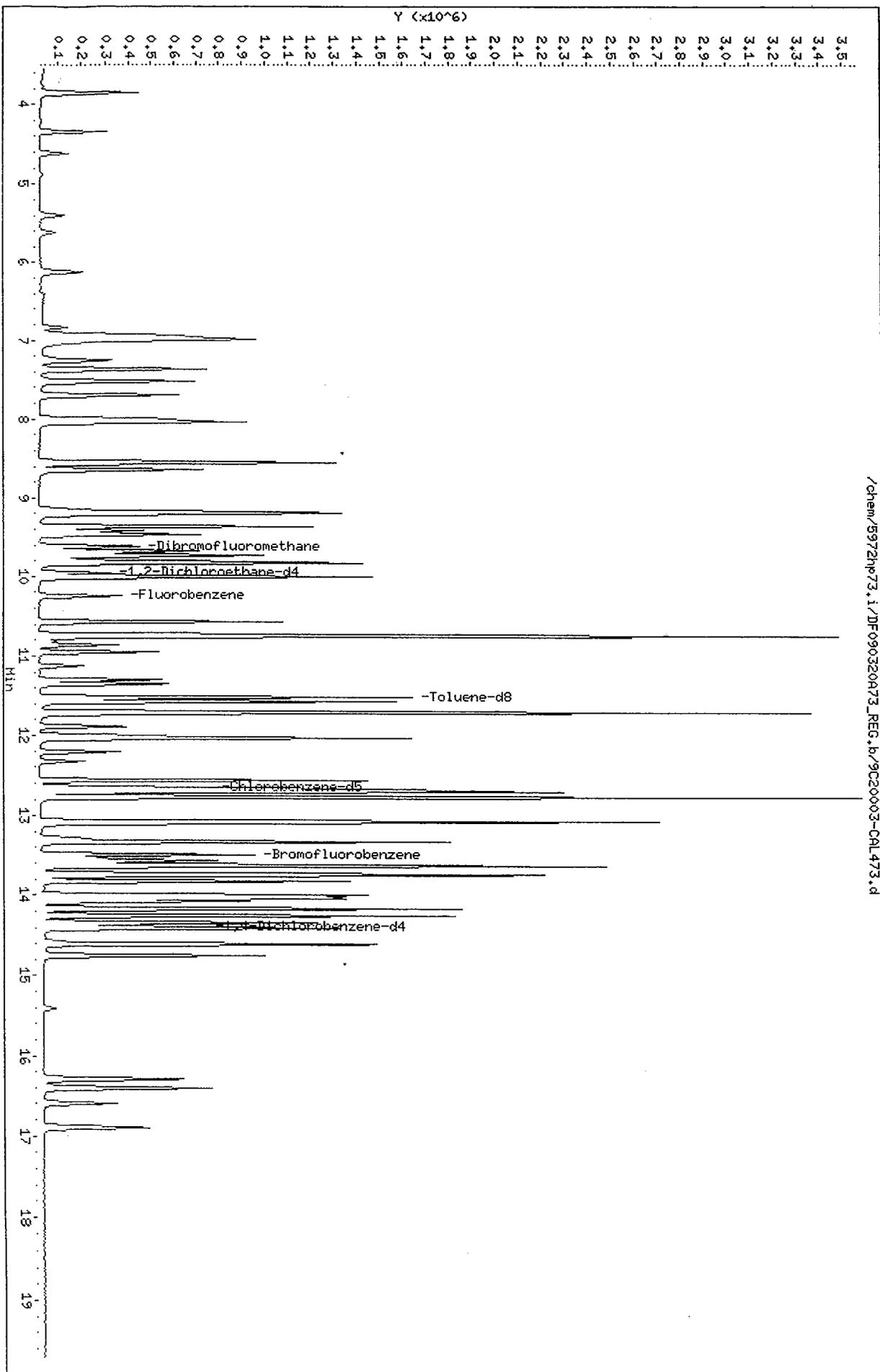
Injection Date and Time: 20-MAR-2009 16:10

Retention Time: 13.49

Operator ID: JAO

Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL473.d
Date: 20-MAR-2009 13:43
Client ID: VSTD010
Sample Info: 9C20003-CAL4:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL473.d
 Lab Smp Id: 9C20003-CAL4 Client Smp ID: VSTD010
 Inj Date : 20-MAR-2009 13:43
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C20003-CAL4:JAO
 Misc Info : VSTD010
 Comment :
 Method : /chem/5972hp73.i/DF090320A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 23-Mar-2009 13:11 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 13:43 Cal File: 9C20003-CAL473.d
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | | 10.235 | 10.235 | (1.000) | 355110 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.656 | 12.656 | (1.000) | 265935 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.397 | 14.397 | (1.000) | 123730 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.626 | 9.626 | (0.940) | 308713 | 250.000 | 240 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.957 | 9.957 | (0.973) | 190100 | 250.000 | 230 |
| \$ 6 Toluene-d8 | 98 | | 11.524 | 11.524 | (0.911) | 1038385 | 250.000 | 230 |
| \$ 7 Bromofluorobenzene | 95 | | 13.491 | 13.491 | (0.937) | 344284 | 250.000 | 230 |
| 8 Dichlorodifluoromethane | 85 | | 3.863 | 3.863 | (0.377) | 539129 | 250.000 | 220 |
| 9 Chloromethane | 50 | | 4.333 | 4.333 | (0.423) | 312364 | 250.000 | 240 |
| 10 Vinyl Chloride | 62 | | 4.611 | 4.611 | (0.451) | 173267 | 250.000 | 220 |
| 11 Bromomethane | 94 | | 5.395 | 5.395 | (0.527) | 104246 | 250.000 | 240 |
| 12 Chloroethane | 64 | | 5.621 | 5.621 | (0.549) | 70939 | 250.000 | 200 |
| 13 Trichlorofluoromethane | 101 | | 6.109 | 6.109 | (0.597) | 251653 | 250.000 | 220 |
| 14 Acrolein | 56 | | 6.840 | 6.840 | (0.668) | 125080 | 2500.00 | 2600 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | | 6.944 | 6.944 | (0.678) | 183186 | 250.000 | 250 |

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| Compounds | QUANT SIG | | | | AMOUNTS | | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | 6.979 | 6.979 | (0.682) | 197390 | 250.000 | 240 |
| 17 1,1-Dichloroethene | 96 | 7.014 | 7.014 | (0.685) | 308101 | 250.000 | 240 |
| 18 Acetone | 43 | 7.049 | 7.049 | (0.689) | 130569 | 1250.00 | 1000 |
| 19 Iodomethane | 142 | 7.240 | 7.240 | (0.707) | 453621 | 250.000 | 230 |
| 20 Carbon disulfide | 76 | 7.362 | 7.362 | (0.719) | 1224577 | 250.000 | 240 |
| 22 3-Chloropropene | 39 | 7.519 | 7.519 | (0.735) | 284319 | 250.000 | 230 |
| 23 Acetonitrile | 41 | 7.519 | 7.519 | (0.735) | 440729 | 250.000 | 240 |
| 24 Methyl acetate | 43 | 7.502 | 7.502 | (0.733) | 198476 | 250.000 | 250 |
| 25 Methylene Chloride | 84 | 7.693 | 7.693 | (0.752) | 305394 | 250.000 | 230 |
| 26 Acrylonitrile | 53 | 7.989 | 7.989 | (0.781) | 332582 | 2500.00 | 2700 |
| 28 trans-1,2-Dichloroethene | 96 | 8.041 | 8.041 | (0.786) | 356487 | 250.000 | 250 |
| 27 Methyl-tert-butyl ether | 73 | 8.007 | 8.007 | (0.782) | 371758 | 250.000 | 270 |
| 30 Isopropyl ether | 45 | 8.564 | 8.564 | (0.837) | 849631 | 250.000 | 270 |
| 31 Vinyl acetate | 43 | 8.564 | 8.564 | (0.837) | 343690 | 500.000 | 520 |
| 32 1,1-Dichloroethane | 63 | 8.564 | 8.564 | (0.837) | 567438 | 250.000 | 240 |
| 33 Chloroprene | 53 | 8.651 | 8.651 | (0.845) | 437416 | 250.000 | 260 |
| 34 2-butanone | 43 | 9.138 | 9.138 | (0.893) | 207620 | 1250.00 | 1300 |
| 35 2,2-Dichloropropane | 77 | 9.173 | 9.173 | (0.896) | 430565 | 250.000 | 250 |
| 36 cis-1,2-Dichloroethene | 96 | 9.191 | 9.191 | (0.898) | 329437 | 250.000 | 250 |
| 37 Propionitrile | 54 | 9.208 | 9.208 | (0.900) | 586188 | 12500.0 | 13000 |
| 38 Methacrylonitrile | 41 | 9.365 | 9.365 | (0.915) | 635829 | 2500.00 | 2700 |
| 39 Bromochloromethane | 128 | 9.417 | 9.417 | (0.920) | 121526 | 250.000 | 250 |
| 40 Chloroform | 83 | 9.469 | 9.469 | (0.925) | 536093 | 250.000 | 240 |
| 42 1,1,1-Trichloroethane | 97 | 9.678 | 9.678 | (0.946) | 458732 | 250.000 | 250 |
| 43 Cyclohexane | 84 | 9.730 | 9.730 | (0.951) | 438584 | 250.000 | 260 |
| 44 1,1-dichloropropene | 75 | 9.818 | 9.818 | (0.959) | 444558 | 250.000 | 260 |
| 45 Isobutyl alcohol | 43 | 9.800 | 9.800 | (0.957) | 164090 | 12500.0 | 13000 |
| 46 Carbon Tetrachloride | 117 | 9.835 | 9.835 | (0.961) | 410879 | 250.000 | 250 |
| 47 Benzene | 78 | 10.009 | 10.009 | (0.978) | 1169984 | 250.000 | 250 |
| 48 1,2-Dichloroethane | 62 | 10.026 | 10.026 | (0.980) | 234096 | 250.000 | 250 |
| 49 Trichloroethene | 130 | 10.566 | 10.566 | (1.032) | 349231 | 250.000 | 260 |
| 50 Methylcyclohexane | 83 | 10.740 | 10.740 | (1.049) | 493969 | 250.000 | 270 |
| 51 1,2-Dichloropropane | 63 | 10.758 | 10.758 | (1.051) | 262677 | 250.000 | 250 |
| 52 Methylmethacrylate | 69 | 10.740 | 10.740 | (1.049) | 832830 | 2500.00 | 2800 |
| 53 1,4-dioxane | 88 | 10.810 | 10.810 | (1.056) | 45433 | 12500.0 | 14000 |
| 54 Dibromomethane | 174 | 10.862 | 10.862 | (1.061) | 122971 | 250.000 | 260 |
| 55 Bromodichloromethane | 83 | 10.949 | 10.949 | (1.070) | 332712 | 250.000 | 260 |
| 56 2-chloroethyl vinyl ether | 63 | 11.123 | 11.123 | (1.087) | 91571 | 2500.00 | 3100 |
| 57 cis-1,3-Dichloropropene | 75 | 11.298 | 11.298 | (1.104) | 352894 | 250.000 | 270 |
| 58 4-Methyl-2-pentanone | 43 | 11.350 | 11.350 | (0.897) | 503362 | 1250.00 | 1300 |
| 59 Toluene | 92 | 11.576 | 11.576 | (0.915) | 716726 | 250.000 | 250 |
| 60 Ethylmethacrylate | 69 | 11.698 | 11.698 | (0.924) | 1641830 | 2500.00 | 2600 |
| 61 trans-1,3-Dichloropropene | 75 | 11.733 | 11.733 | (0.927) | 278910 | 250.000 | 240 |
| 62 1,1,2-Trichloroethane | 97 | 11.890 | 11.890 | (0.939) | 147880 | 250.000 | 230 |
| 63 2-hexanone | 43 | 11.994 | 11.994 | (0.948) | 331229 | 1250.00 | 1400 (H) |
| 64 1,3-Dichloropropane | 76 | 12.029 | 12.029 | (0.950) | 260052 | 250.000 | 240 |
| 65 Tetrachloroethene | 164 | 12.029 | 12.029 | (0.950) | 284201 | 250.000 | 230 |

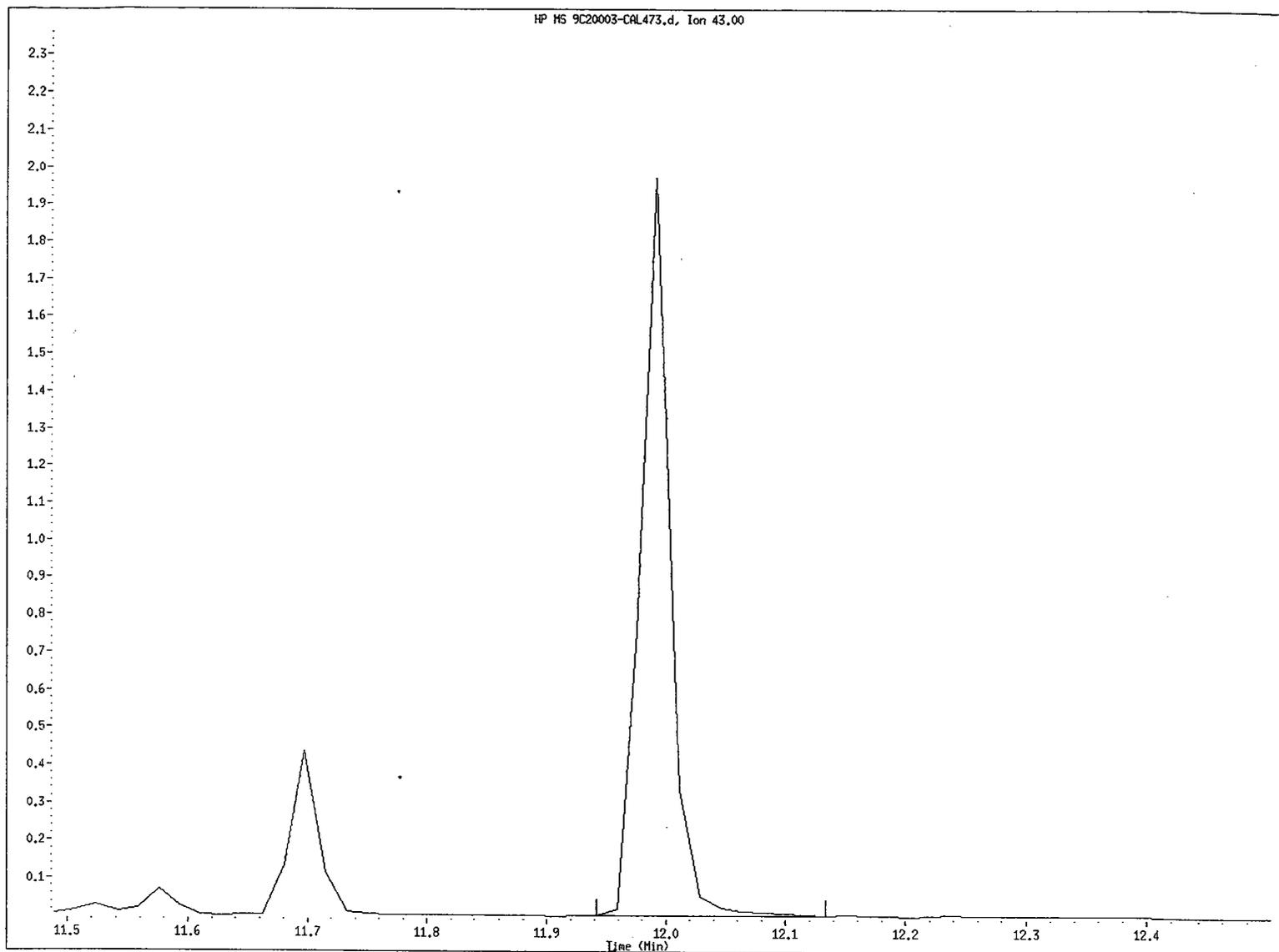
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| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 66 Dibromochloromethane | 129 | 12.203 | 12.203 | (0.964) | 203266 | 250.000 | 240 |
| 67 1,2-Dibromoethane | 107 | 12.325 | 12.325 | (0.974) | 151913 | 250.000 | 250 |
| 68 1-Chlorohexane | 55 | 12.569 | 12.569 | (0.993) | 290695 | 250.000 | 220 |
| 69 Chlorobenzene | 112 | 12.673 | 12.673 | (1.001) | 750793 | 250.000 | 240 |
| 70 Ethylbenzene | 106 | 12.708 | 12.708 | (1.004) | 422302 | 250.000 | 250 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.708 | 12.708 | (1.004) | 264183 | 250.000 | 240 |
| 72 m,p-Xylene | 106 | 12.778 | 12.778 | (1.010) | 1032461 | 500.000 | 510 |
| 73 o-Xylene | 106 | 13.074 | 13.074 | (1.033) | 491126 | 250.000 | 260 |
| 74 Styrene | 104 | 13.091 | 13.091 | (1.034) | 742511 | 250.000 | 260 |
| 75 Bromoform | 173 | 13.283 | 13.283 | (1.050) | 106342 | 250.000 | 260 |
| 76 Isopropyl Benzene | 105 | 13.317 | 13.317 | (1.052) | 1319383 | 250.000 | 260 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.526 | 13.526 | (0.940) | 176593 | 250.000 | 250 |
| 79 1,2,3-Trichloropropane | 110 | 13.596 | 13.596 | (1.074) | 40852 | 250.000 | 250 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.561 | 13.561 | (1.072) | 149741 | 1000.00 | 1000 |
| 80 n-Propyl Benzene | 91 | 13.631 | 13.631 | (0.947) | 1610107 | 250.000 | 250 |
| 81 Bromobenzene | 156 | 13.648 | 13.648 | (1.078) | 294026 | 250.000 | 240 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.735 | 13.735 | (0.954) | 1003249 | 250.000 | 260 |
| 83 2-Chlorotoluene | 126 | 13.753 | 13.753 | (0.955) | 319432 | 250.000 | 240 |
| 84 4-Chlorotoluene | 126 | 13.822 | 13.822 | (0.960) | 308559 | 250.000 | 240 |
| 85 tert-Butyl Benzene | 119 | 14.014 | 14.014 | (0.973) | 1050272 | 250.000 | 250 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.049 | 14.049 | (0.976) | 982824 | 250.000 | 260 |
| 87 Pentachloroethane | 167 | 14.083 | 14.083 | (0.978) | 174344 | 250.000 | 240 |
| 88 sec-Butyl Benzene | 105 | 14.171 | 14.171 | (0.984) | 1482216 | 250.000 | 260 |
| 89 p-Isopropyl Toluene | 119 | 14.258 | 14.258 | (0.990) | 1150965 | 250.000 | 280 |
| 90 1,3-Dichlorobenzene | 146 | 14.345 | 14.345 | (0.996) | 581843 | 250.000 | 220 |
| 91 1,4-Dichlorobenzene | 146 | 14.414 | 14.414 | (1.001) | 578172 | 250.000 | 220 |
| 92 n-Butyl Benzene | 91 | 14.588 | 14.588 | (1.013) | 1151201 | 250.000 | 260 |
| 93 1,2-Dichlorobenzene | 146 | 14.745 | 14.745 | (1.024) | 465330 | 250.000 | 230 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.407 | 15.407 | (1.070) | 17907 | 250.000 | 160 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.295 | 16.295 | (1.132) | 302754 | 250.000 | 240 |
| 96 Hexachlorobutadiene | 225 | 16.399 | 16.399 | (1.139) | 199679 | 250.000 | 260 |
| 97 Naphthalene | 128 | 16.591 | 16.591 | (1.152) | 345934 | 250.000 | 250 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.904 | 16.904 | (1.174) | 237898 | 250.000 | 240 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 685924 | 500.000 | 500 |
| M 100 Xylene (total) | 106 | | | | 1523587 | 250.000 | 790 |

QC Flag Legend

H - Operator selected an alternate compound hit.

2-hexanone CAS Number 591-78-6 Area = 331229 User selected hit



File name: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL473.d

Client ID: VSTD010

Instrument ID: 5972hp73.i

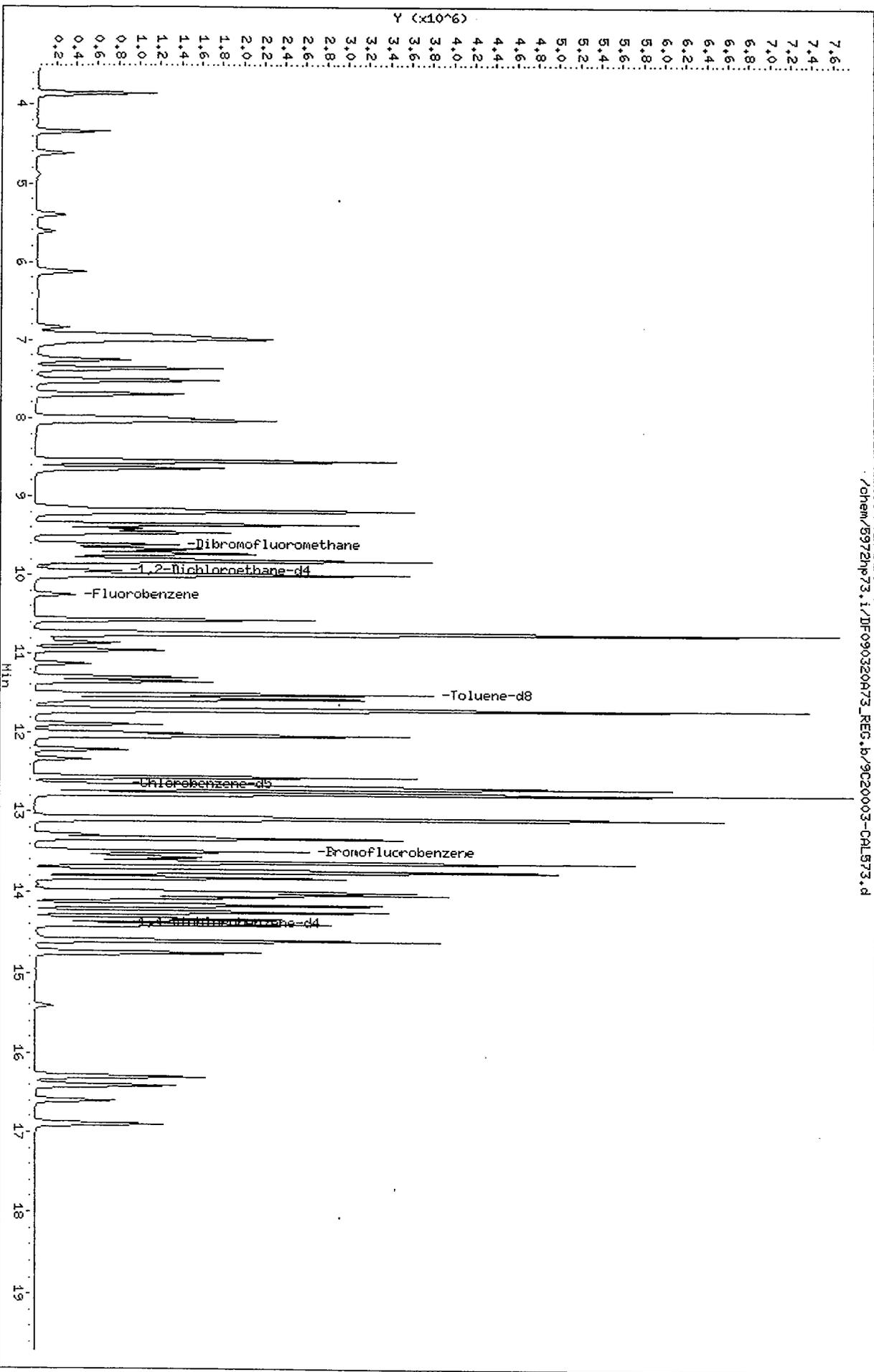
Injection Date and Time: 20-MAR-2009 13:43

Retention Time: 11.99

Operator ID: JAO

Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL573.d
 Date: 20-MAR-2009 14:12
 Client ID: VSTD025
 Sample Info: 9C20003-CAL573J90
 Purge Volume: 25.0
 Column phase: SPB-624

Instrument: 5972hp73.i
 Operator: JAO
 Column diameter: 0.32



Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL573.d
 Report Date: 23-Mar-2009 13:11

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL573.d
 Lab Smp Id: 9C20003-CAL5 Client Smp ID: VSTD025
 Inj Date : 20-MAR-2009 14:12
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C20003-CAL5:JAO
 Misc Info : VSTD025
 Comment :
 Method : /chem/5972hp73.i/DF090320A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 23-Mar-2009 13:11 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 14:12 Cal File: 9C20003-CAL573.d
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|------|--------|--------|---------|----------|---------|----------|
| | | | | | | | | CAL-AMT | ON-COL |
| | | | | | | | (ng) | (ng) | |
| * 1 Fluorobenzene | 96 | | | 10.248 | 10.248 | (1.000) | 397279 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.651 | 12.651 | (1.000) | 282990 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.393 | 14.393 | (1.000) | 130333 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.622 | 9.622 | (0.939) | 846761 | 625.000 | 590 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.952 | 9.952 | (0.971) | 511845 | 625.000 | 570 |
| \$ 6 Toluene-d8 | 98 | | | 11.520 | 11.520 | (0.911) | 2757096 | 625.000 | 580 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.487 | 13.487 | (0.937) | 922060 | 625.000 | 600 (M) |
| 8 Dichlorodifluoromethane | 85 | | | 3.858 | 3.858 | (0.376) | 1378676 | 625.000 | 530 |
| 9 Chloromethane | 50 | | | 4.328 | 4.328 | (0.422) | 829344 | 625.000 | 590 |
| 10 Vinyl Chloride | 62 | | | 4.607 | 4.607 | (0.450) | 469654 | 625.000 | 560 |
| 11 Bromomethane | 94 | | | 5.408 | 5.408 | (0.528) | 280879 | 625.000 | 590 |
| 12 Chloroethane | 64 | | | 5.617 | 5.617 | (0.548) | 186459 | 625.000 | 490 |
| 13 Trichlorofluoromethane | 101 | | | 6.122 | 6.122 | (0.597) | 643814 | 625.000 | 530 |
| 14 Acrolein | 56 | | | 6.836 | 6.836 | (0.667) | 351992 | 6250.00 | 6500 (A) |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | | | 6.940 | 6.940 | (0.677) | 461435 | 625.000 | 570 |

Handwritten signatures and initials:
 ZAL
 3/20/09

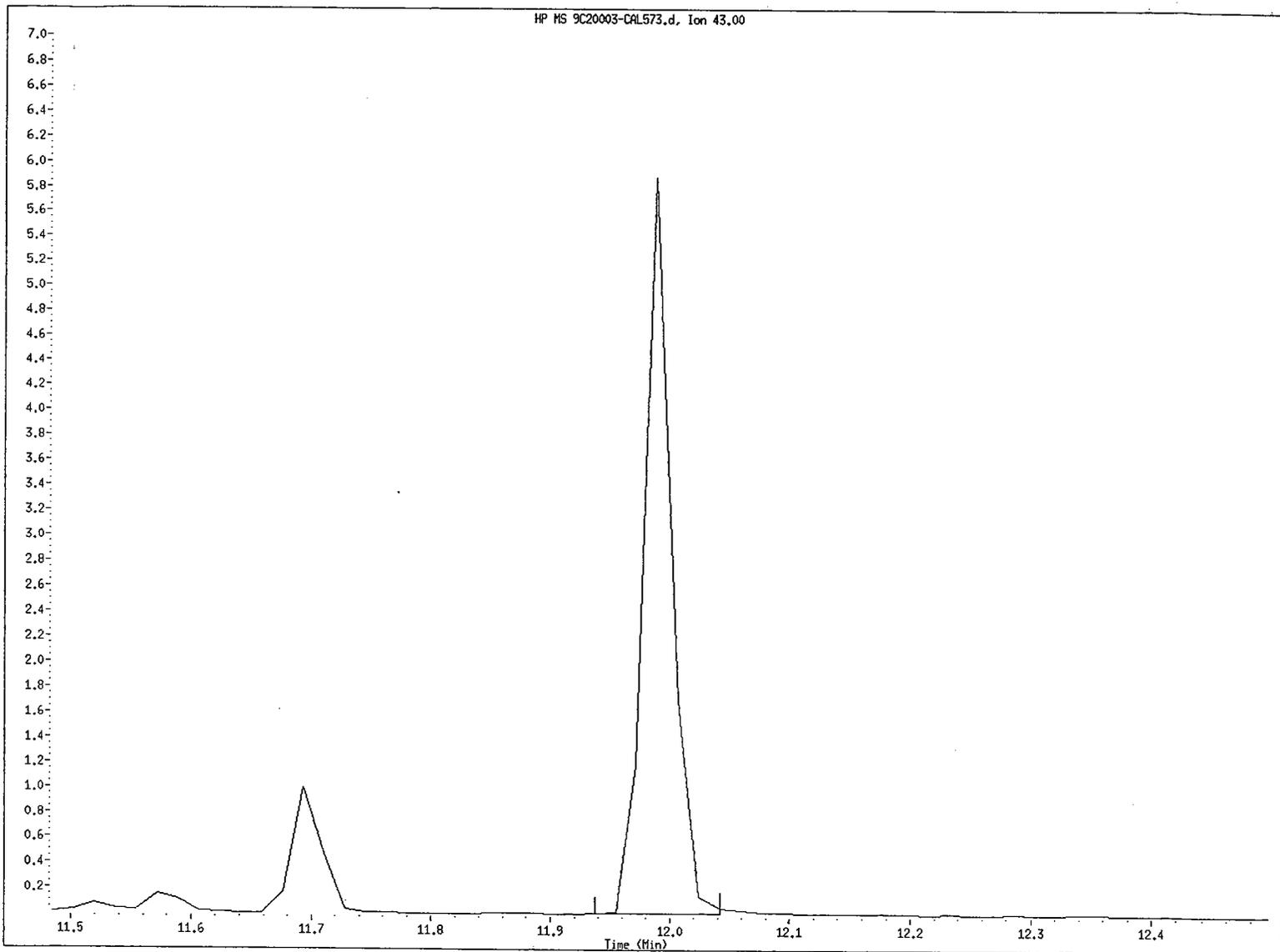
| Compounds | QUANT SIG | | | | AMOUNTS | | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 16 1,1,2-trichloro-1,2,2-trifluo | .85 | 6.975 | 6.975 | (0.681) | 484295 | 625.000 | 550 |
| 17 1,1-Dichloroethene | 96 | 7.010 | 7.010 | (0.684) | 824460 | 625.000 | 590 |
| 18 Acetone | 43 | 7.062 | 7.062 | (0.689) | 326518 | 3125.00 | 2400 |
| 19 Iodomethane | 142 | 7.254 | 7.254 | (0.708) | 1254956 | 625.000 | 570 |
| 20 Carbon disulfide | 76 | 7.358 | 7.358 | (0.718) | 3126420 | 625.000 | 570 |
| 22 3-Chloropropene | 39 | 7.515 | 7.515 | (0.733) | 752703 | 625.000 | 560 |
| 23 Acetonitrile | 41 | 7.515 | 7.515 | (0.733) | 1171174 | 625.000 | 580 |
| 24 Methyl acetate | 43 | 7.515 | 7.515 | (0.733) | 541302 | 625.000 | 600 |
| 25 Methylene Chloride | 84 | 7.689 | 7.689 | (0.750) | 797442 | 625.000 | 560 |
| 26 Acrylonitrile | 53 | 8.002 | 8.002 | (0.781) | 873496 | 6250.00 | 6200 |
| 28 trans-1,2-Dichloroethene | 96 | 8.037 | 8.037 | (0.784) | 969693 | 625.000 | 610 |
| 27 Methyl-tert-butyl ether | 73 | 8.020 | 8.020 | (0.783) | 1049853 | 625.000 | 670 (A) |
| 30 Isopropyl ether | 45 | 8.559 | 8.559 | (0.835) | 2341302 | 625.000 | 660 (A) |
| 31 Vinyl acetate | 43 | 8.559 | 8.559 | (0.835) | 930294 | 1250.00 | 1300 (A) |
| 32 1,1-Dichloroethane | 63 | 8.559 | 8.559 | (0.835) | 1484914 | 625.000 | 580 |
| 33 Chloroprene | 53 | 8.646 | 8.646 | (0.844) | 1197115 | 625.000 | 630 (A) |
| 34 2-butanone | 43 | 9.134 | 9.134 | (0.891) | 579405 | 3125.00 | 3300 (A) |
| 35 2,2-Dichloropropane | 77 | 9.186 | 9.186 | (0.896) | 1097911 | 625.000 | 570 |
| 36 cis-1,2-Dichloroethene | 96 | 9.186 | 9.186 | (0.896) | 890066 | 625.000 | 610 |
| 37 Propionitrile | 54 | 9.204 | 9.204 | (0.898) | 1504617 | 31250.0 | 30000 |
| 38 Methacrylonitrile | 41 | 9.360 | 9.360 | (0.913) | 1683615 | 6250.00 | 6400 (A) |
| 39 Bromochloromethane | 128 | 9.430 | 9.430 | (0.920) | 327842 | 625.000 | 600 |
| 40 Chloroform | 83 | 9.465 | 9.465 | (0.924) | 1397746 | 625.000 | 580 |
| 42 1,1,1-Trichloroethane | 97 | 9.674 | 9.674 | (0.944) | 1162764 | 625.000 | 580 |
| 43 Cyclohexane | 84 | 9.743 | 9.743 | (0.951) | 1057701 | 625.000 | 570 |
| 44 1,1-dichloropropene | 75 | 9.831 | 9.831 | (0.959) | 1123797 | 625.000 | 590 |
| 45 Isobutyl alcohol | 43 | 9.796 | 9.796 | (0.956) | 473056 | 31250.0 | 32000 (A) |
| 46 Carbon Tetrachloride | 117 | 9.831 | 9.831 | (0.959) | 1045366 | 625.000 | 580 |
| 47 Benzene | 78 | 10.005 | 10.005 | (0.976) | 3048323 | 625.000 | 590 |
| 48 1,2-Dichloroethane | 62 | 10.022 | 10.022 | (0.978) | 607430 | 625.000 | 580 |
| 49 Trichloroethene | 130 | 10.562 | 10.562 | (1.031) | 920757 | 625.000 | 610 |
| 50 Methylcyclohexane | 83 | 10.736 | 10.736 | (1.048) | 1134385 | 625.000 | 570 |
| 51 1,2-Dichloropropane | 63 | 10.753 | 10.753 | (1.049) | 663239 | 625.000 | 570 |
| 52 Methylmethacrylate | 69 | 10.736 | 10.736 | (1.048) | 2104281 | 6250.00 | 6300 (A) |
| 53 1,4-dioxane | 88 | 10.823 | 10.823 | (1.056) | 132929 | 31250.0 | 36000 (A) |
| 54 Dibromomethane | 174 | 10.875 | 10.875 | (1.061) | 337933 | 625.000 | 640 (A) |
| 55 Bromodichloromethane | 83 | 10.962 | 10.962 | (1.070) | 894212 | 625.000 | 620 |
| 56 2-chloroethyl vinyl ether | 63 | 11.136 | 11.136 | (1.087) | 258896 | 6250.00 | 7400 (A) |
| 57 cis-1,3-Dichloropropene | 75 | 11.311 | 11.311 | (1.104) | 974908 | 625.000 | 650 (A) |
| 58 4-Methyl-2-pentanone | 43 | 11.363 | 11.363 | (0.898) | 1359670 | 3125.00 | 3300 (A) |
| 59 Toluene | 92 | 11.589 | 11.589 | (0.916) | 1820115 | 625.000 | 600 |
| 60 Ethylmethacrylate | 69 | 11.694 | 11.694 | (0.924) | 4055919 | 6250.00 | 6000 |
| 61 trans-1,3-Dichloropropene | 75 | 11.728 | 11.728 | (0.927) | 715183 | 625.000 | 590 |
| 62 1,1,2-Trichloroethane | 97 | 11.885 | 11.885 | (0.939) | 397352 | 625.000 | 590 |
| 63 2-hexanone | 43 | 11.990 | 11.990 | (0.948) | 933224 | 3125.00 | 3500 (A) |
| 64 1,3-Dichloropropane | 76 | 12.024 | 12.024 | (0.950) | 664603 | 625.000 | 580 |
| 65 Tetrachloroethene | 164 | 12.042 | 12.042 | (0.952) | 703797 | 625.000 | 560 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 66 Dibromochloromethane | 129 | 12.216 | 12.216 | (0.966) | 553807 | 625.000 | 620 |
| 67 1,2-Dibromoethane | 107 | 12.338 | 12.338 | (0.975) | 406377 | 625.000 | 620 |
| 68 1-Chlorohexane | 55 | 12.564 | 12.564 | (0.993) | 761997 | 625.000 | 560 |
| 69 Chlorobenzene | 112 | 12.669 | 12.669 | (1.001) | 1907224 | 625.000 | 580 |
| 70 Ethylbenzene | 106 | 12.704 | 12.704 | (1.004) | 1021144 | 625.000 | 580 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.721 | 12.721 | (1.006) | 680998 | 625.000 | 590 |
| 72 m,p-Xylene | 106 | 12.773 | 12.773 | (1.010) | 2504071 | 1250.00 | 1200 |
| 73 o-Xylene | 106 | 13.087 | 13.087 | (1.034) | 1189272 | 625.000 | 590 |
| 74 Styrene | 104 | 13.087 | 13.087 | (1.034) | 1903822 | 625.000 | 620 |
| 75 Bromoform | 173 | 13.278 | 13.278 | (1.050) | 289976 | 625.000 | 660 (A) |
| 76 Isopropyl Benzene | 105 | 13.330 | 13.330 | (1.054) | 3159492 | 625.000 | 590 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.539 | 13.539 | (0.941) | 450988 | 625.000 | 610 |
| 79 1,2,3-Trichloropropane | 110 | 13.609 | 13.609 | (1.076) | 104498 | 625.000 | 610 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.557 | 13.557 | (1.072) | 384152 | 2500.00 | 2400 |
| 80 n-Propyl Benzene | 91 | 13.626 | 13.626 | (0.947) | 3709845 | 625.000 | 560 |
| 81 Bromobenzene | 156 | 13.644 | 13.644 | (1.078) | 760478 | 625.000 | 590 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.731 | 13.731 | (0.954) | 2414329 | 625.000 | 600 |
| 83 2-Chlorotoluene | 126 | 13.748 | 13.748 | (0.955) | 810432 | 625.000 | 590 |
| 84 4-Chlorotoluene | 126 | 13.835 | 13.835 | (0.961) | 787380 | 625.000 | 580 |
| 85 tert-Butyl Benzene | 119 | 14.009 | 14.009 | (0.973) | 2467586 | 625.000 | 570 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.044 | 14.044 | (0.976) | 2369759 | 625.000 | 600 |
| 87 Pentachloroethane | 167 | 14.079 | 14.079 | (0.978) | 486426 | 625.000 | 630 (A) |
| 88 sec-Butyl Benzene | 105 | 14.166 | 14.166 | (0.984) | 3352251 | 625.000 | 580 |
| 89 p-Isopropyl Toluene | 119 | 14.253 | 14.253 | (0.990) | 2653997 | 625.000 | 610 |
| 90 1,3-Dichlorobenzene | 146 | 14.358 | 14.358 | (0.998) | 1499778 | 625.000 | 560 |
| 91 1,4-Dichlorobenzene | 146 | 14.410 | 14.410 | (1.001) | 1415077 | 625.000 | 520 |
| 92 n-Butyl Benzene | 91 | 14.601 | 14.601 | (1.015) | 2528887 | 625.000 | 560 |
| 93 1,2-Dichlorobenzene | 146 | 14.741 | 14.741 | (1.024) | 1158441 | 625.000 | 550 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.420 | 15.420 | (1.071) | 46935 | 625.000 | 420 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.290 | 16.290 | (1.132) | 743883 | 625.000 | 570 |
| 96 Hexachlorobutadiene | 225 | 16.412 | 16.412 | (1.140) | 390472 | 625.000 | 500 |
| 97 Naphthalene | 128 | 16.586 | 16.586 | (1.152) | 937782 | 625.000 | 640 (A) |
| 98 1,2,3-Trichlorobenzene | 180 | 16.900 | 16.900 | (1.174) | 588455 | 625.000 | 580 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 1859759 | 1250.00 | 1200 |
| M 100 Xylene (total) | 106 | | | | 3693343 | 625.000 | 1800 |

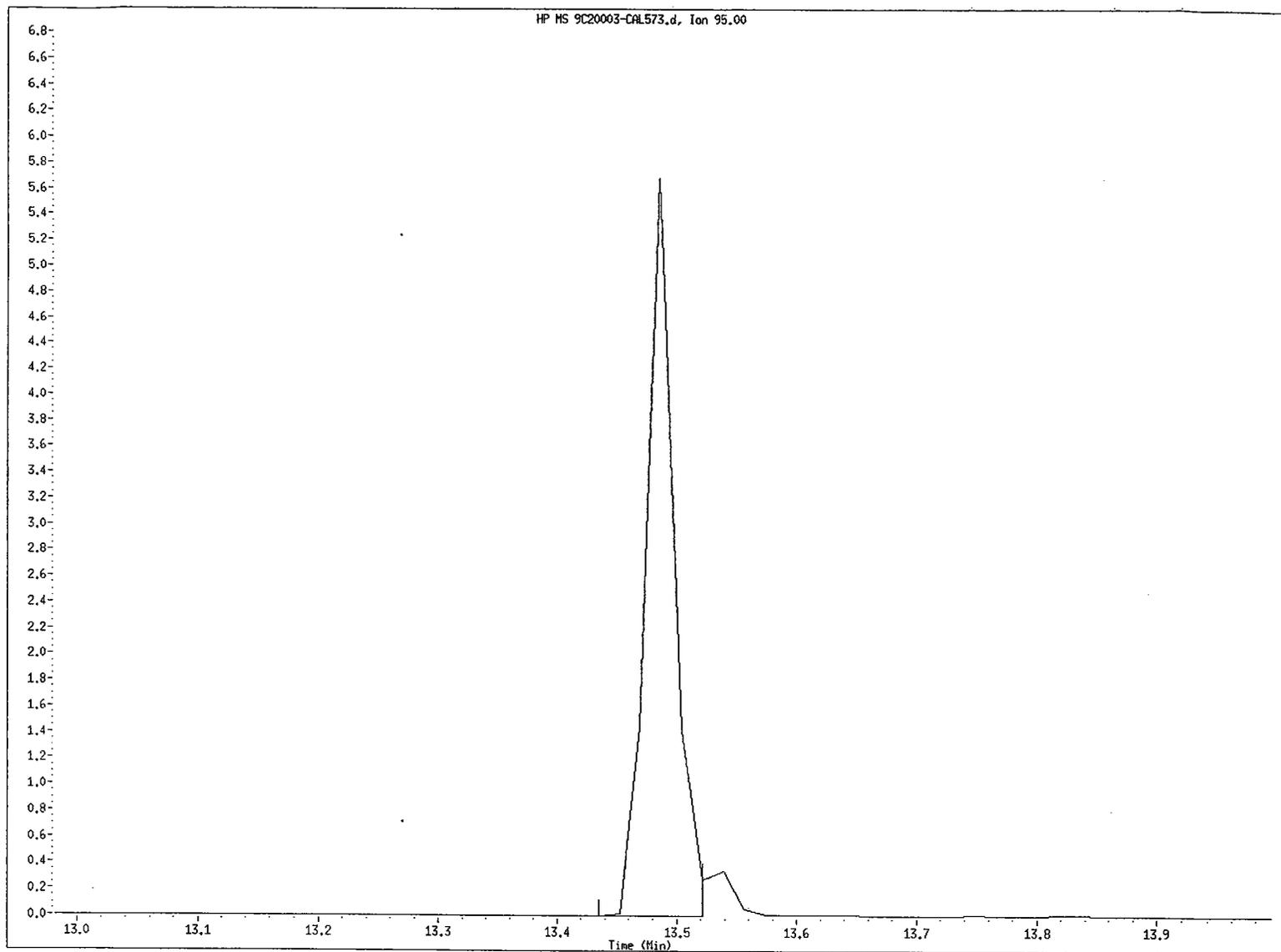
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

2-hexanone CAS Number 591-78-6 Area = 933224 User selected hit



File name: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL573.d
Client ID: VSTD025
Instrument ID: 5972hp73.i
Injection Date and Time: 20-MAR-2009 14:12
Retention Time: 11.99
Operator ID: JAO



File name: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-CAL573.d
Client ID: VSTD025
Instrument ID: 5972hp73.i
Injection Date and Time: 20-MAR-2009 14:12
Retention Time: 13.49
Operator ID: JAO

COMPUCHEM a division of Liberty Analytical Corp DATE 3/20/09
GCMS VOLATILE RUN LOG
 COMPUCHEM LOGBOOK 11 ZZZZ 24 (S972hp73)

INITIAL TIME OF TUNE 1144 TIME TUNE EXPRES 2344 LINKER/METHOD 8260B 25mL
 SHIFT(S) (A) (B) (C)

PREVENTIVE MAINTENANCE returned

| FILE NAME | PH | Vol | DATE | TIME | Client ID | SDG# | INI VOL | DF+ | CHEMIST | COMMENT(S)/DISPOSITION |
|-----------------|----|-----|---------|------|-------------|---------|---------|-----|---------|--|
| 9C20003-TUN1 | - | - | 3/20/09 | 1144 | BFB | | 2uL | - | JAK | LEDSSCB |
| -CAL3 | US | - | 1/1 | 1215 | VSTD005 | | 25mL | - | | |
| -CAL2 | - | - | 1/1 | 1245 | VSTD001 | | | - | | |
| -CAL1 | - | - | 1/1 | 1314 | VSTD0.5 | | | - | | ICAL pass |
| -CAL4 | - | - | 1/1 | 1343 | VSTD010 | | | - | | |
| -CAL5 | - | - | 1/1 | 1412 | VSTD025 | | | - | | |
| GB090320 | CS | - | 1/1 | 1441 | V1BLRAB | | | - | | |
| 9C20003-CAL3RUS | - | - | 1/1 | 1511 | VSTD005 | | | - | | |
| GC090320 | - | - | 1/1 | 1541 | V1BLKAC | | | - | | |
| 9C20003-CAL3R2 | - | - | 1/1 | 1610 | VSTD005 | | | - | | |
| 9032016-BLK1 | - | - | 1/1 | 1639 | VBLKHE | VARIOUS | | - | | D462 Passes EPA 51K TCL4-D02,50CC-1 |
| -BS1 | - | - | 1/1 | 1708 | VHELCS | | | - | | |
| -BS1 | - | - | 1/1 | 1737 | VHELCSB | | | - | | |
| 903120-01 | 6 | A | 1/1 | 1807 | WSPN-01 DUP | 0903120 | 25mL | - | | not run - not needed 73-20A |
| -02 | 6 | A | 1/1 | 1836 | WSPN-01 | | | - | | |
| -03 | 6 | A | 1/1905 | 1934 | WSPN-01 INF | | | - | | accepted 3/27/09 |
| -04 | 6 | A | 1/1 | 1934 | WSPN-02 | | | - | | |
| -05 | 6 | A | 1/1 | 2005 | WSPN-03 INF | | | - | | accepted 3/27/09 |
| -02R | 6 | B | 1/1 | | WSPN-01 | | | - | | not run - not needed |
| -03R | 6 | B | 1/1 | 2033 | WSPN-01 INF | | | - | | not run - not needed |
| -04R | 6 | B | 1/1 | | WSPN-02 | | | - | | not run - not needed |
| -05R | 6 | B | 1/1 | 2102 | WSPN-03 INF | | | - | | verified |
| 903084-07R | 1 | B | 1/1 | 2151 | TRIP BLANK | 0903084 | 25mL | - | | |
| 0903119-02 | 1 | A | 1/1 | | TRIP | 0903119 | 25mL | - | | not run |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Tune (ID #7008) Lot No.: 66499 Calibration Group Code / Lot No.: DC463

REVIEWED BY: 73 Date 3-20-09

b. Continuing Calibration Data (Form VII VOA)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

- (1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.
- (2) EICPs displaying each manual integration.

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date: 03/19/09

Time: 1009

Lab File ID: 9C19002-CCV173

Init. Calib. Date(s): 03/16/09

03/16/09

Init. Calib. Times: 1056

1253

GC Column: SPB-624 ID: 0.32 (mm)

| COMPOUND | RRF OR | RRF5 | MIN | %D OR | MAX %D OR | CURV |
|---------------------------|-----------|-----------|-------|--------|-----------|------|
| | AMOUNT | OR | | RRF | %DRIFT |  | %DRIFT |
| Dichlorodifluoromethane | 0.7319000 | 0.7504972 | 0.001 | 2.54 | 90.00 | AVRG |
| Chloromethane | 0.4225100 | 0.3835121 | 0.1 | -9.23 | 90.00 | AVRG |
| Vinyl Chloride | 0.2011900 | 0.2103804 | 0.001 | 4.57 | 20.00 | AVRG |
| Bromomethane | 0.1105000 | 0.1018361 | 0.001 | -7.84 | 90.00 | AVRG |
| Chloroethane | 0.0800500 | 0.0878708 | 0.001 | 9.77 | 90.00 | AVRG |
| Trichlorofluoromethane | 0.2682700 | 0.3099919 | 0.001 | 15.55 | 90.00 | AVRG |
| Acrolein | 0.0200100 | 0.0175629 | 0.001 | -12.23 | 90.00 | AVRG |
| 1,1-Dichloroethene | 0.3854600 | 0.4094750 | 0.001 | 6.23 | 20.00 | AVRG |
| Iodomethane | 0.5666300 | 0.5461264 | 0.001 | -3.62 | 90.00 | AVRG |
| Carbon disulfide | 1.4775200 | 1.5666660 | 0.001 | 6.03 | 90.00 | AVRG |
| Acetone | 0.0426700 | 0.0321995 | 0.001 | -24.54 | 90.00 | AVRG |
| 3-Chloropropene | 0.4292600 | 0.3724192 | 0.001 | -13.24 | 90.00 | AVRG |
| Acetonitrile | 0.6376200 | 0.5753685 | 0.001 | -9.76 | 90.00 | AVRG |
| Methylene Chloride | 0.3771000 | 0.3877469 | 0.001 | 2.82 | 90.00 | AVRG |
| trans-1,2-Dichloroethene | 0.4291000 | 0.4741830 | 0.001 | 10.51 | 90.00 | AVRG |
| Acrylonitrile | 0.0427500 | 0.0399367 | 0.001 | -6.58 | 90.00 | AVRG |
| 1,1-Dichloroethane | 0.7121300 | 0.7192020 | 0.1 | 0.99 | 90.00 | AVRG |
| Vinyl acetate | 0.2372200 | 0.2121993 | 0.001 | -10.55 | 90.00 | AVRG |
| 2,2-Dichloropropane | 0.5747800 | 0.5651322 | 0.001 | -1.68 | 90.00 | AVRG |
| cis-1,2-Dichloroethene | 0.4020100 | 0.4206349 | 0.001 | 4.63 | 90.00 | AVRG |
| 2-butanone | 0.0626600 | 0.0534506 | 0.001 | -14.70 | 90.00 | AVRG |
| Propionitrile | 0.0151900 | 0.0139920 | 0.001 | -7.89 | 90.00 | AVRG |
| Bromochloromethane | 0.1454900 | 0.1601998 | 0.001 | 10.11 | 90.00 | AVRG |
| Methacrylonitrile | 0.0866700 | 0.0728825 | 0.001 | -15.91 | 90.00 | AVRG |
| Chloroform | 0.6590400 | 0.6840092 | 0.001 | 3.79 | 20.00 | AVRG |
| 1,1,1-Trichloroethane | 0.5893100 | 0.5783907 | 0.001 | -1.85 | 90.00 | AVRG |
| Carbon Tetrachloride | 0.5183300 | 0.5247704 | 0.001 | 1.24 | 90.00 | AVRG |
| 1,1-dichloropropene | 0.5896400 | 0.5497697 | 0.001 | -6.76 | 90.00 | AVRG |
| Benzene | 1.4415300 | 1.4713535 | 0.001 | 2.07 | 90.00 | AVRG |
| 1,2-Dichloroethane | 0.2977200 | 0.2941262 | 0.001 | -1.21 | 90.00 | AVRG |
| Isobutyl alcohol | 0.0055100 | 0.0043173 | 0.001 | -21.65 | 90.00 | AVRG |
| Trichloroethene | 0.4395600 | 0.4492158 | 0.001 | 2.20 | 90.00 | AVRG |
| 1,2-Dichloropropane | 0.3223400 | 0.3173105 | 0.001 | -1.56 | 20.00 | AVRG |
| Dibromomethane | 0.1385400 | 0.1613161 | 0.001 | 16.44 | 90.00 | AVRG |
| Methylmethacrylate | 0.1056800 | 0.0977953 | 0.001 | -7.46 | 90.00 | AVRG |
| Bromodichloromethane | 0.4336000 | 0.4186299 | 0.001 | -3.45 | 90.00 | AVRG |
| cis-1,3-Dichloropropene | 0.4621700 | 0.4477757 | 0.001 | -3.11 | 90.00 | AVRG |
| 4-Methyl-2-pentanone | 0.2172300 | 0.1710872 | 0.001 | -21.24 | 90.00 | AVRG |
| Toluene | 1.3669000 | 1.2768079 | 0.001 | -6.59 | 20.00 | AVRG |
| trans-1,3-Dichloropropene | 0.5348100 | 0.4913925 | 0.001 | -8.12 | 90.00 | AVRG |
| 1,1,2-Trichloroethane | 0.2679800 | 0.2668453 | 0.001 | -0.42 | 90.00 | AVRG |
| Ethylmethacrylate | 0.3136600 | 0.2889078 | 0.001 | -7.89 | 90.00 | AVRG |

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date: 03/19/09

Time: 1009

Lab File ID: 9C19002-CCV173

Init. Calib. Date(s): 03/16/09

03/16/09

Init. Calib. Times: 1056

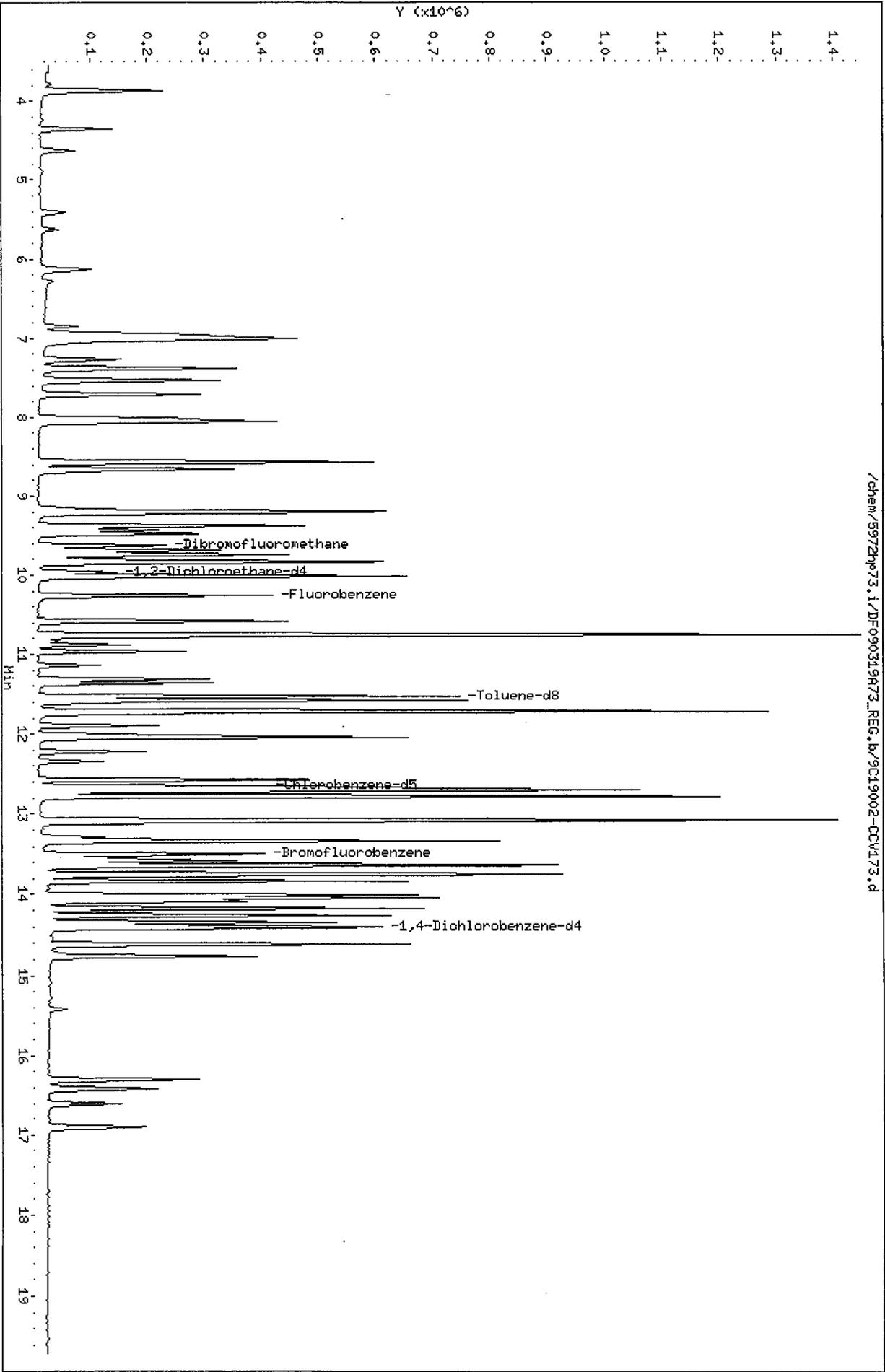
1253

GC Column: SPB-624 ID: 0.32 (mm)

| COMPOUND | RRF OR AMOUNT | RRF5 OR AMOUNT | MIN RRF | %D OR %DRIFT | MAX %D OR %DRIFT | CURV TYPE |
|-----------------------------|---------------|----------------|---------|--------------|------------------|-----------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Tetrachloroethene | 0.5190000 | 0.5137967 | 0.001 | -1.00 | 90.00 | AVRG |
| 1,3-Dichloropropane | 0.4744000 | 0.4601593 | 0.001 | -3.00 | 90.00 | AVRG |
| 2-hexanone | 0.1515900 | 0.1161767 | 0.001 | -23.36 | 90.00 | AVRG |
| Dibromochloromethane | 0.3825100 | 0.3864673 | 0.001 | 1.03 | 90.00 | AVRG |
| Chlorobenzene | 1.3739800 | 1.3374975 | 0.3 | -2.66 | 90.00 | AVRG |
| 1,1,1,2-Tetrachloroethane | 0.4788100 | 0.4709299 | 0.001 | -1.64 | 90.00 | AVRG |
| Ethylbenzene | 0.7995300 | 0.7129471 | 0.001 | -10.83 | 20.00 | AVRG |
| m,p-Xylene | 0.9586900 | 0.8744239 | 0.001 | -8.79 | 90.00 | AVRG |
| o-Xylene | 0.9091100 | 0.8342949 | 0.001 | -8.23 | 90.00 | AVRG |
| Styrene | 1.4145300 | 1.2943797 | 0.001 | -8.49 | 90.00 | AVRG |
| Bromoform | 0.2006200 | 0.2021353 | 0.1 | 0.76 | 90.00 | AVRG |
| 1,2,3-Trichloropropane | 0.0722600 | 0.0692481 | 0.001 | -4.17 | 90.00 | AVRG |
| 1,1,2,2-Tetrachloroethane | 0.7156100 | 0.6475000 | 0.3 | -9.52 | 90.00 | AVRG |
| trans-1,4-dichloro-2-butene | 0.0763700 | 0.0644700 | 0.001 | -15.58 | 90.00 | AVRG |
| 1,3-Dichlorobenzene | 2.4352500 | 2.1434424 | 0.001 | -11.98 | 90.00 | AVRG |
| 1,4-Dichlorobenzene | 2.4125400 | 2.0452049 | 0.001 | -15.23 | 90.00 | AVRG |
| 1,2-Dichlorobenzene | 1.9015500 | 1.6864909 | 0.001 | -11.31 | 90.00 | AVRG |
| 1,2,4-Trichlorobenzene | 1.3351100 | 0.9911086 | 0.001 | -25.76 | 90.00 | AVRG |
| Hexachlorobutadiene | 0.7573100 | 0.4559045 | 0.001 | -39.80 | 90.00 | AVRG |
| Naphthalene | 1.6946000 | 1.1830465 | 0.001 | -30.19 | 90.00 | AVRG |
| Xylene (total) | 0.9091100 | 0.8342949 | 0.001 | -8.23 | 90.00 | AVRG |
| Chloroprene | 0.6311900 | 0.5521414 | 0.001 | -12.52 | 90.00 | AVRG |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Dibromofluoromethane | 0.4005400 | 0.4188708 | 0.001 | 4.58 | 90.00 | AVRG |
| 1,2-Dichloroethane-d4 | 0.2697600 | 0.2418041 | 0.001 | -10.36 | 90.00 | AVRG |
| Toluene-d8 | 2.1136200 | 2.0154185 | 0.001 | -4.65 | 90.00 | AVRG |
| Bromofluorobenzene | 1.6836600 | 1.3680541 | 0.001 | -18.74 | 90.00 | AVRG |

Data File: /chem/5972hp73.i/DF090319A73_REG.b/9C19002-CCV173.d
Date: 19-MAR-2009 10:09
Client ID: VSTD005
Sample Info: 9C19002-CCV1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319A73_REG.b/9C19002-CCV173.d
 Lab Smp Id: 9C19002-CCV1 Client Smp ID: VSTD005
 Inj Date : 19-MAR-2009 10:09
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9C19002-CCV1:JAO
 Misc Info : VSTD005
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:15 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | | 10.251 | 10.251 | (1.000) | 373571 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.654 | 12.654 | (1.000) | 254953 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.412 | 14.412 | (1.000) | 120341 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.624 | 9.624 | (0.939) | 156478 | 125.000 | 130 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.972 | 9.972 | (0.973) | 90331 | 125.000 | 110 |
| \$ 6 Toluene-d8 | 98 | | 11.539 | 11.539 | (0.912) | 513837 | 125.000 | 120 |
| \$ 7 Bromofluorobenzene | 95 | | 13.489 | 13.489 | (0.936) | 164633 | 125.000 | 100 |
| 8 Dichlorodifluoromethane | 85 | | 3.878 | 3.878 | (0.378) | 280364 | 125.000 | 130 |
| 9 Chloromethane | 50 | | 4.348 | 4.348 | (0.424) | 143269 | 125.000 | 110 |
| 10 Vinyl Chloride | 62 | | 4.627 | 4.627 | (0.451) | 78592 | 125.000 | 130 |
| 11 Bromomethane | 94 | | 5.410 | 5.410 | (0.528) | 38043 | 125.000 | 120 |
| 12 Chloroethane | 64 | | 5.636 | 5.636 | (0.550) | 32826 | 125.000 | 140 |
| 13 Trichlorofluoromethane | 101 | | 6.124 | 6.124 | (0.597) | 115804 | 125.000 | 140 |
| 14 Acrolein | 56 | | 6.855 | 6.855 | (0.669) | 65610 | 1250.00 | 1100 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | | 6.960 | 6.960 | (0.679) | 88660 | 125.000 | 130 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | 6.995 | 6.995 | (0.682) | 91740 | 125.000 | 120 |
| 17 1,1-Dichloroethene | 96 | 7.029 | 7.029 | (0.686) | 152968 | 125.000 | 130 |
| 18 Acetone | 43 | 7.064 | 7.064 | (0.689) | 60144 | 625.000 | 470 |
| 19 Iodomethane | 142 | 7.256 | 7.256 | (0.708) | 204017 | 125.000 | 120 |
| 20 Carbon disulfide | 76 | 7.378 | 7.378 | (0.720) | 585261 | 125.000 | 130 |
| 22 3-Chloropropene | 39 | 7.534 | 7.534 | (0.735) | 139125 | 125.000 | 110 |
| 23 Acetonitrile | 41 | 7.534 | 7.534 | (0.735) | 214941 | 125.000 | 110 |
| 24 Methyl acetate | 43 | 7.517 | 7.517 | (0.733) | 91440 | 125.000 | 110 |
| 25 Methylene Chloride | 84 | 7.708 | 7.708 | (0.752) | 144851 | 125.000 | 130 |
| 26 Acrylonitrile | 53 | 8.004 | 8.004 | (0.781) | 149192 | 1250.00 | 1200 |
| 28 trans-1,2-Dichloroethene | 96 | 8.057 | 8.057 | (0.786) | 177141 | 125.000 | 140 |
| 27 Methyl-tert-butyl ether | 73 | 8.022 | 8.022 | (0.783) | 182692 | 125.000 | 120 |
| 30 Isopropyl ether | 45 | 8.579 | 8.579 | (0.837) | 388637 | 125.000 | 110 |
| 31 Vinyl acetate | 43 | 8.579 | 8.579 | (0.837) | 158543 | 250.000 | 220 |
| 32 1,1-Dichloroethane | 63 | 8.579 | 8.579 | (0.837) | 268673 | 125.000 | 130 |
| 33 Chloroprene | 53 | 8.666 | 8.666 | (0.845) | 206264 | 125.000 | 110 |
| 34 2-butanone | 43 | 9.136 | 9.136 | (0.891) | 99838 | 625.000 | 530 |
| 35 2,2-Dichloropropane | 77 | 9.189 | 9.189 | (0.896) | 211117 | 125.000 | 120 |
| 36 cis-1,2-Dichloroethene | 96 | 9.189 | 9.189 | (0.896) | 157137 | 125.000 | 130 |
| 37 Propionitrile | 54 | 9.223 | 9.223 | (0.900) | 261350 | 6250.00 | 5800 |
| 38 Methacrylonitrile | 41 | 9.380 | 9.380 | (0.915) | 272268 | 1250.00 | 1100 |
| 39 Bromochloromethane | 128 | 9.432 | 9.432 | (0.920) | 59846 | 125.000 | 140 |
| 40 Chloroform | 83 | 9.485 | 9.485 | (0.925) | 255526 | 125.000 | 130 |
| 42 1,1,1-Trichloroethane | 97 | 9.693 | 9.693 | (0.946) | 216070 | 125.000 | 120 |
| 43 Cyclohexane | 84 | 9.746 | 9.746 | (0.951) | 193475 | 125.000 | 99 |
| 44 1,1-dichloropropene | 75 | 9.833 | 9.833 | (0.959) | 205378 | 125.000 | 120 |
| 45 Isobutyl alcohol | 43 | 9.798 | 9.798 | (0.956) | 80640 | 6250.00 | 4900 |
| 46 Carbon Tetrachloride | 117 | 9.850 | 9.850 | (0.961) | 196039 | 125.000 | 130 |
| 47 Benzene | 78 | 10.024 | 10.024 | (0.978) | 549655 | 125.000 | 130 |
| 48 1,2-Dichloroethane | 62 | 10.042 | 10.042 | (0.980) | 109877 | 125.000 | 120 |
| 49 Trichloroethene | 130 | 10.581 | 10.581 | (1.032) | 167814 | 125.000 | 130 |
| 50 Methylcyclohexane | 83 | 10.738 | 10.738 | (1.048) | 195525 | 125.000 | 99 |
| 51 1,2-Dichloropropane | 63 | 10.773 | 10.773 | (1.051) | 118538 | 125.000 | 120 |
| 52 Methylmethacrylate | 69 | 10.756 | 10.756 | (1.049) | 365335 | 1250.00 | 1200 |
| 53 1,4-dioxane | 88 | 10.825 | 10.825 | (1.056) | 21995 | 6250.00 | 6100 |
| 54 Dibromomethane | 174 | 10.877 | 10.877 | (1.061) | 60263 | 125.000 | 150 |
| 55 Bromodichloromethane | 83 | 10.965 | 10.965 | (1.070) | 156388 | 125.000 | 120 |
| 56 2-chloroethyl vinyl ether | 63 | 11.139 | 11.139 | (1.087) | 42876 | 1250.00 | 1100 |
| 57 cis-1,3-Dichloropropene | 75 | 11.313 | 11.313 | (1.104) | 167276 | 125.000 | 120 |
| 58 4-Methyl-2-pentanone | 43 | 11.365 | 11.365 | (0.898) | 218096 | 625.000 | 490 |
| 59 Toluene | 92 | 11.591 | 11.591 | (0.916) | 325526 | 125.000 | 120 |
| 60 Ethylmethacrylate | 69 | 11.713 | 11.713 | (0.926) | 736579 | 1250.00 | 1200 |
| 61 trans-1,3-Dichloropropene | 75 | 11.731 | 11.731 | (0.927) | 125282 | 125.000 | 110 |
| 62 1,1,2-Trichloroethane | 97 | 11.887 | 11.887 | (0.939) | 68033 | 125.000 | 120 |
| 63 2-hexanone | 43 | 11.992 | 11.992 | (0.948) | 148098 | 625.000 | 480 |
| 64 1,3-Dichloropropane | 76 | 12.027 | 12.027 | (0.950) | 117319 | 125.000 | 120 |
| 65 Tetrachloroethene | 164 | 12.044 | 12.044 | (0.952) | 130994 | 125.000 | 120 |

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| 66 Dibromochloromethane | 129 | 12.218 | 12.218 | (0.966) | 98531 | 125.000 | 130 |
| 67 1,2-Dibromoethane | 107 | 12.340 | 12.340 | (0.975) | 70254 | 125.000 | 120 |
| 68 1-Chlorohexane | 55 | 12.566 | 12.566 | (0.993) | 137032 | 125.000 | 110 |
| 69 Chlorobenzene | 112 | 12.688 | 12.688 | (1.003) | 340999 | 125.000 | 120 |
| 70 Ethylbenzene | 106 | 12.706 | 12.706 | (1.004) | 181768 | 125.000 | 110 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.723 | 12.723 | (1.006) | 120065 | 125.000 | 120 |
| 72 m,p-Xylene | 106 | 12.793 | 12.793 | (1.011) | 445874 | 250.000 | 230 |
| 73 o-Xylene | 106 | 13.089 | 13.089 | (1.034) | 212706 | 125.000 | 110 |
| 74 Styrene | 104 | 13.089 | 13.089 | (1.034) | 330006 | 125.000 | 110 |
| 75 Bromoform | 173 | 13.280 | 13.280 | (1.050) | 51535 | 125.000 | 130 |
| 76 Isopropyl Benzene | 105 | 13.333 | 13.333 | (1.054) | 552809 | 125.000 | 110 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.542 | 13.542 | (0.940) | 77921 | 125.000 | 110 |
| 79 1,2,3-Trichloropropane | 110 | 13.611 | 13.611 | (1.076) | 17655 | 125.000 | 120 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.576 | 13.576 | (1.073) | 65751 | 500.000 | 420 |
| 80 n-Propyl Benzene | 91 | 13.629 | 13.629 | (0.946) | 656517 | 125.000 | 95 |
| 81 Bromobenzene | 156 | 13.646 | 13.646 | (1.078) | 134953 | 125.000 | 120 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.751 | 13.751 | (0.954) | 395920 | 125.000 | 96 |
| 83 2-Chlorotoluene | 126 | 13.768 | 13.768 | (0.955) | 139733 | 125.000 | 110 |
| 84 4-Chlorotoluene | 126 | 13.838 | 13.838 | (0.960) | 137691 | 125.000 | 110 |
| 85 tert-Butyl Benzene | 119 | 14.012 | 14.012 | (0.972) | 388069 | 125.000 | 96 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.046 | 14.046 | (0.975) | 399961 | 125.000 | 99 |
| 87 Pentachloroethane | 167 | 14.099 | 14.099 | (0.978) | 86831 | 125.000 | 130 |
| 88 sec-Butyl Benzene | 105 | 14.186 | 14.186 | (0.984) | 540520 | 125.000 | 91 |
| 89 p-Isopropyl Toluene | 119 | 14.273 | 14.273 | (0.990) | 419802 | 125.000 | 93 |
| 90 1,3-Dichlorobenzene | 146 | 14.360 | 14.360 | (0.996) | 257944 | 125.000 | 110 |
| 91 1,4-Dichlorobenzene | 146 | 14.430 | 14.430 | (1.001) | 246122 | 125.000 | 110 |
| 92 n-Butyl Benzene | 91 | 14.604 | 14.604 | (1.013) | 380493 | 125.000 | 80 |
| 93 1,2-Dichlorobenzene | 146 | 14.760 | 14.760 | (1.024) | 202954 | 125.000 | 110 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.422 | 15.422 | (1.070) | 8531 | 125.000 | 90 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.293 | 16.293 | (1.130) | 119271 | 125.000 | 93 |
| 96 Hexachlorobutadiene | 225 | 16.415 | 16.415 | (1.139) | 54864 | 125.000 | 75 |
| 97 Naphthalene | 128 | 16.606 | 16.606 | (1.152) | 142369 | 125.000 | 87 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.920 | 16.920 | (1.174) | 94427 | 125.000 | 95 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 334278 | 250.000 | 270 |
| M 100 Xylene (total) | 106 | | | | 658580 | 125.000 | 360 |

COMPUCHEM a division of Liberty Analytical Corp DATE 3/19/09 INITIAL TIME OF TUNE 0929 SHIFT(S/A) (B) (C) 8260B 25ml
 GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2129 LINKER/METHOD 20D
 COMPUCHEM LOGBOOK 11 ZZZ 24 (S972hp73)

PREVENTIVE MAINTENANCE

returned

| FILE NAME | pH | Visi | DATE | TIME | Client ID | SDG# | INI VOL * | DF+ | CHEMIST | COMMENTS(ETC)/DISPOSITION |
|--------------|----|------|---------|------|------------------|---------|-----------|-----|---------|---------------------------|
| 9C19002-TUN1 | - | - | 3/19/09 | 0929 | BFB | - | 25ml | - | JR0 | WDS-5CB |
| -CCV1 | - | - | 1/1 | 1009 | VSTD005 | - | 25ml | - | | |
| 9031905-BLK1 | - | - | 1/1 | 1055 | VBLKHB | VARIOUS | 25ml | - | | Passes TCU-20D |
| -BS1 | - | - | 1/1 | 1137 | VHBLCS | | | - | | Passes pp. 5.8 |
| -BSD1 | - | - | 1/1 | 1206 | VHBLCS D | | | - | | |
| 0903044-06R | 1 | A | 1/1 | 1248 | YS01-TB01-030909 | 0903044 | 25ml | - | | |
| 9031905-MS1 | 1 | C | 1/1 | 1317 | -GW23-0309MS | | | - | | |
| -MSD1 | 1 | D | 1/1 | 1346 | -GW23-0309MSD | | | - | | |
| 0903044-13B | 1 | A | 1/1 | 1415 | -EB02-031009 | | | - | | |
| -14 | 1 | A | 1/1 | 1445 | -TB01-031009 | | | - | | |
| -15 | 1 | A | 1/1 | 1536 | -GW18-0309 | | | - | | |
| -16 | 1 | A | 1/1 | 1606 | -GW19-0309 | | | - | | |
| -17 | 1 | A | 1/1 | 1635 | -EB01-031109 | | | - | | |
| -18 | 1 | A | 1/1 | 1704 | -EB02-031109 | | | - | | |
| -19 | 1 | A | 1/1 | 1733 | -TB01-031109 | | | - | | |
| 0903084-01 | 1 | A | 1/1 | 1828 | MW-3 | 0903084 | 25ml | - | | 661-TC Ethane 47834g |
| -02 | 1 | A | 1/1 | 1857 | MW-2 | | | - | | |
| -03 | 1 | A | 1/1 | 1927 | MW-8 | | | - | | |
| -04 | 1 | A | 1/1 | 1957 | MW-9 | | | - | | |
| -05 | 1 | A | 1/1 | 2026 | MW-12 | | | - | | CS, L2 16170g |
| -06 | 1 | A | 1/1 | 2055 | MW-17 | | | - | | |
| | | | 1/1 | | | | | - | | |
| | | | 1/1 | | | | | - | | |
| | | | 1/1 | | | | | - | | |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Time (ID #7008) Lot No.: 66499 Calibration Group Code / Lot No.: DC 461
 REVIEWED BY: B Date 3-19-09 Arden IS# 66537

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date: 03/19/09

Time: 2155

Lab File ID: 9C19010-CCV173

Init. Calib. Date(s): 03/16/09

03/16/09

Init. Calib. Times: 1056

1253

GC Column: SPB-624 ID: 0.32 (mm)

| COMPOUND | RRF | OR | MIN | %D | OR | CURV |
|---------------------------|-----------|-----------|-------|--------|--------|------|
| | AMOUNT | AMOUNT | | RRF | %DRIFT |  | MAX %D OR %DRIFT | TYPE |
| Dichlorodifluoromethane | 0.7319000 | 0.7537149 | 0.001 | 2.98 | 90.00 | AVRG |
| Chloromethane | 0.4225100 | 0.4036370 | 0.1 | -4.47 | 90.00 | AVRG |
| Vinyl Chloride | 0.2011900 | 0.2119765 | 0.001 | 5.36 | 20.00 | AVRG |
| Bromomethane | 0.1105000 | 0.1075005 | 0.001 | -2.71 | 90.00 | AVRG |
| Chloroethane | 0.0800500 | 0.0841775 | 0.001 | 5.16 | 90.00 | AVRG |
| Trichlorofluoromethane | 0.2682700 | 0.3011111 | 0.001 | 12.24 | 90.00 | AVRG |
| Acrolein | 0.0200100 | 0.0149802 | 0.001 | -25.14 | 90.00 | AVRG |
| 1,1-Dichloroethene | 0.3854600 | 0.3953401 | 0.001 | 2.56 | 20.00 | AVRG |
| Iodomethane | 0.5666300 | 0.5721905 | 0.001 | 0.98 | 90.00 | AVRG |
| Carbon disulfide | 1.4775200 | 1.5510746 | 0.001 | 4.98 | 90.00 | AVRG |
| Acetone | 0.0426700 | 0.0380267 | 0.001 | -10.88 | 90.00 | AVRG |
| 3-Chloropropene | 0.4292600 | 0.3590434 | 0.001 | -16.36 | 90.00 | AVRG |
| Acetonitrile | 0.6376200 | 0.5467101 | 0.001 | -14.26 | 90.00 | AVRG |
| Methylene Chloride | 0.3771000 | 0.3885525 | 0.001 | 3.04 | 90.00 | AVRG |
| trans-1,2-Dichloroethene | 0.4291000 | 0.4789454 | 0.001 | 11.62 | 90.00 | AVRG |
| Acrylonitrile | 0.0427500 | 0.0378892 | 0.001 | -11.37 | 90.00 | AVRG |
| 1,1-Dichloroethane | 0.7121300 | 0.7280273 | 0.1 | 2.23 | 90.00 | AVRG |
| Vinyl acetate | 0.2372200 | 0.1991254 | 0.001 | -16.06 | 90.00 | AVRG |
| 2,2-Dichloropropane | 0.5747800 | 0.5997845 | 0.001 | 4.35 | 90.00 | AVRG |
| cis-1,2-Dichloroethene | 0.4020100 | 0.4376741 | 0.001 | 8.87 | 90.00 | AVRG |
| 2-butanone | 0.0626600 | 0.0485832 | 0.001 | -22.46 | 90.00 | AVRG |
| Propionitrile | 0.0151900 | 0.0134715 | 0.001 | -11.31 | 90.00 | AVRG |
| Bromochloromethane | 0.1454900 | 0.1608785 | 0.001 | 10.58 | 90.00 | AVRG |
| Methacrylonitrile | 0.0866700 | 0.0710310 | 0.001 | -18.04 | 90.00 | AVRG |
| Chloroform | 0.6590400 | 0.7012682 | 0.001 | 6.41 | 20.00 | AVRG |
| 1,1,1-Trichloroethane | 0.5893100 | 0.6090769 | 0.001 | 3.35 | 90.00 | AVRG |
| Carbon Tetrachloride | 0.5183300 | 0.5613801 | 0.001 | 8.30 | 90.00 | AVRG |
| 1,1-dichloropropene | 0.5896400 | 0.5752530 | 0.001 | -2.44 | 90.00 | AVRG |
| Benzene | 1.4415300 | 1.5288640 | 0.001 | 6.06 | 90.00 | AVRG |
| 1,2-Dichloroethane | 0.2977200 | 0.2876586 | 0.001 | -3.38 | 90.00 | AVRG |
| Isobutyl alcohol | 0.0055100 | 0.0036374 | 0.001 | -33.98 | 90.00 | AVRG |
| Trichloroethene | 0.4395600 | 0.4693085 | 0.001 | 6.77 | 90.00 | AVRG |
| 1,2-Dichloropropane | 0.3223400 | 0.3248895 | 0.001 | 0.79 | 20.00 | AVRG |
| Dibromomethane | 0.1385400 | 0.1645423 | 0.001 | 18.77 | 90.00 | AVRG |
| Methylmethacrylate | 0.1056800 | 0.0961937 | 0.001 | -8.98 | 90.00 | AVRG |
| Bromodichloromethane | 0.4336000 | 0.4253805 | 0.001 | -1.90 | 90.00 | AVRG |
| cis-1,3-Dichloropropene | 0.4621700 | 0.4418926 | 0.001 | -4.39 | 90.00 | AVRG |
| 4-Methyl-2-pentanone | 0.2172300 | 0.1518413 | 0.001 | -30.10 | 90.00 | AVRG |
| Toluene | 1.3669000 | 1.3047985 | 0.001 | -4.54 | 20.00 | AVRG |
| trans-1,3-Dichloropropene | 0.5348100 | 0.5001412 | 0.001 | -6.48 | 90.00 | AVRG |
| 1,1,2-Trichloroethane | 0.2679800 | 0.2621355 | 0.001 | -2.18 | 90.00 | AVRG |
| Ethylmethacrylate | 0.3136600 | 0.2808145 | 0.001 | -10.47 | 90.00 | AVRG |

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Instrument ID: 5972HP73

Calibration Date: 03/19/09

Time: 2155

Lab File ID: 9C19010-CCV173

Init. Calib. Date(s): 03/16/09

03/16/09

Init. Calib. Times: 1056

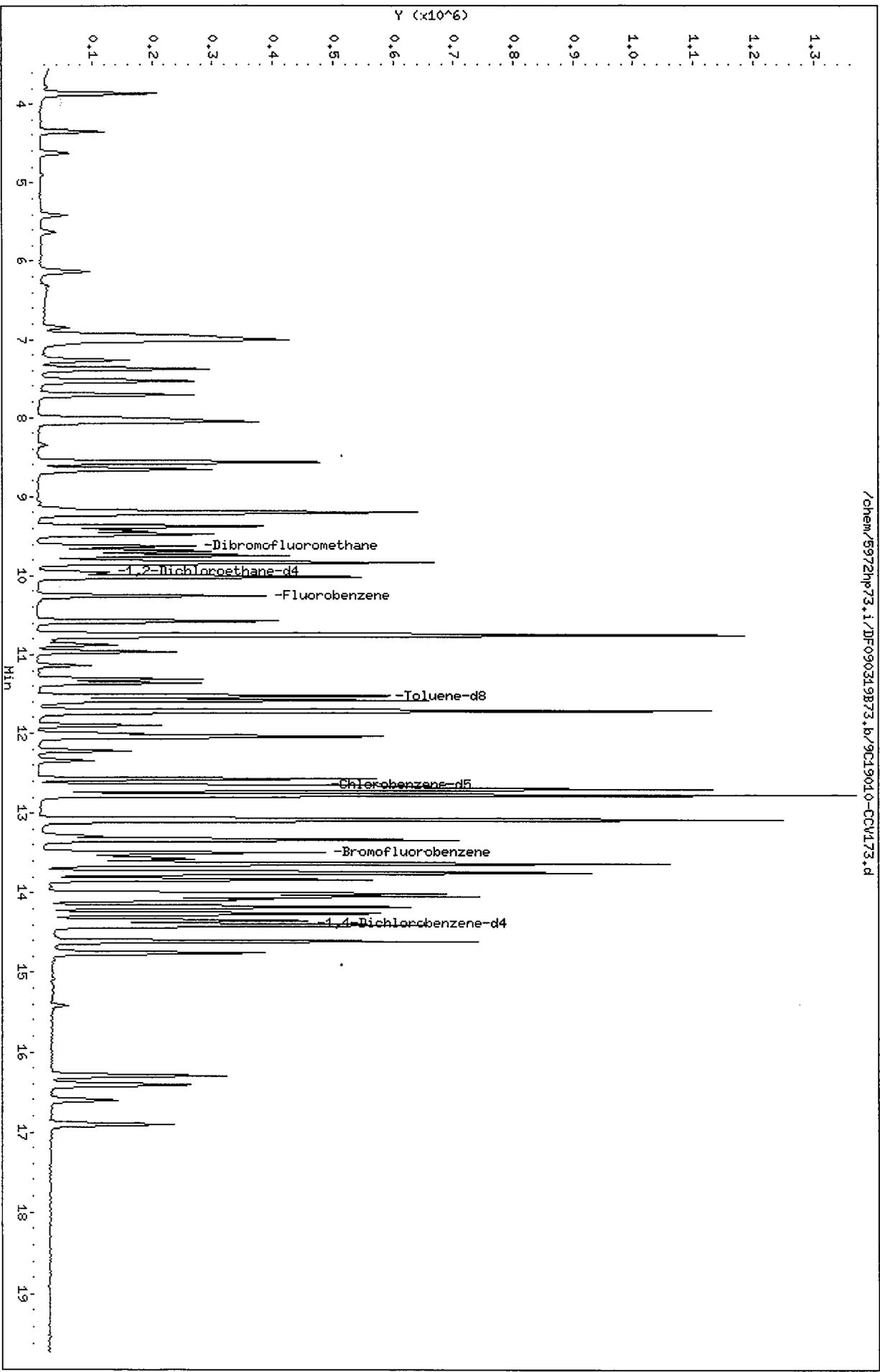
1253

GC Column: SPB-624 ID: 0.32 (mm)

| COMPOUND | RRF OR AMOUNT | RRF5 OR AMOUNT | MIN RRF | %D OR %DRIFT | MAX %D OR %DRIFT | CURV TYPE |
|-----------------------------|---------------|----------------|---------|--------------|------------------|-----------|
| Tetrachloroethene | 0.5190000 | 0.5309114 | 0.001 | 2.30 | 90.00 | AVRG |
| 1,3-Dichloropropane | 0.4744000 | 0.4452373 | 0.001 | -6.15 | 90.00 | AVRG |
| 2-hexanone | 0.1515900 | 0.0999505 | 0.001 | -34.06 | 90.00 | AVRG |
| Dibromochloromethane | 0.3825100 | 0.3680009 | 0.001 | -3.79 | 90.00 | AVRG |
| Chlorobenzene | 1.3739800 | 1.3701052 | 0.3 | -0.28 | 90.00 | AVRG |
| 1,1,1,2-Tetrachloroethane | 0.4788100 | 0.4882688 | 0.001 | 1.98 | 90.00 | AVRG |
| Ethylbenzene | 0.7995300 | 0.7536835 | 0.001 | -5.73 | 20.00 | AVRG |
| m,p-Xylene | 0.9586900 | 0.9196890 | 0.001 | -4.07 | 90.00 | AVRG |
| o-Xylene | 0.9091100 | 0.8563638 | 0.001 | -5.80 | 90.00 | AVRG |
| Styrene | 1.4145300 | 1.3171131 | 0.001 | -6.89 | 90.00 | AVRG |
| Bromoform | 0.2006200 | 0.1890258 | 0.1 | -5.78 | 90.00 | AVRG |
| 1,2,3-Trichloropropane | 0.0722600 | 0.0754392 | 0.001 | 4.40 | 90.00 | AVRG |
| 1,1,2,2-Tetrachloroethane | 0.7156100 | 0.5945823 | 0.3 | -16.91 | 90.00 | AVRG |
| trans-1,4-dichloro-2-butene | 0.0763700 | 0.0610633 | 0.001 | -20.04 | 90.00 | AVRG |
| 1,3-Dichlorobenzene | 2.4352500 | 2.2288800 | 0.001 | -8.47 | 90.00 | AVRG |
| 1,4-Dichlorobenzene | 2.4125400 | 2.0989662 | 0.001 | -13.00 | 90.00 | AVRG |
| 1,2-Dichlorobenzene | 1.9015500 | 1.7234632 | 0.001 | -9.36 | 90.00 | AVRG |
| 1,2,4-Trichlorobenzene | 1.3351100 | 1.0903637 | 0.001 | -18.33 | 90.00 | AVRG |
| Hexachlorobutadiene | 0.7573100 | 0.6184975 | 0.001 | -18.33 | 90.00 | AVRG |
| Naphthalene | 1.6946000 | 1.1555065 | 0.001 | -31.81 | 90.00 | AVRG |
| Xylene (total) | 0.9091100 | 0.8563638 | 0.001 | -5.80 | 90.00 | AVRG |
| Chloroprene | 0.6311900 | 0.5426639 | 0.001 | -14.02 | 90.00 | AVRG |
| Dibromofluoromethane | 0.4005400 | 0.4631953 | 0.001 | 15.64 | 90.00 | AVRG |
| 1,2-Dichloroethane-d4 | 0.2697600 | 0.2723202 | 0.001 | 0.95 | 90.00 | AVRG |
| Toluene-d8 | 2.1136200 | 2.0970880 | 0.001 | -0.78 | 90.00 | AVRG |
| Bromofluorobenzene | 1.6836600 | 1.4314732 | 0.001 | -14.98 | 90.00 | AVRG |

Data File: /chem/5972hp73.i/DF090319873.b/9C19010-CCV173.d
Date: 19-MAR-2009 21:55
Client ID: VSTD005
Sample Info: 9C19010-CCV1:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/9C19010-CCV173.d
 Lab Smp Id: 9C19010-CCV1 Client Smp ID: VSTD005
 Inj Date : 19-MAR-2009 21:55
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 9C19010-CCV1:TD
 Misc Info : VSTD005
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Fluorobenzene | 96 | | 10.253 | 10.253 | (1.000) | 342538 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.656 | 12.656 | (1.000) | 244263 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.397 | 14.397 | (1.000) | 121011 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.626 | 9.626 | (0.939) | 158662 | 125.000 | 140 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.957 | 9.957 | (0.971) | 93280 | 125.000 | 130 |
| \$ 6 Toluene-d8 | 98 | | 11.542 | 11.542 | (0.912) | 512241 | 125.000 | 120 |
| \$ 7 Bromofluorobenzene | 95 | | 13.492 | 13.492 | (0.937) | 173224 | 125.000 | 110 |
| 8 Dichlorodifluoromethane | 85 | | 3.863 | 3.863 | (0.377) | 258176 | 125.000 | 130 |
| 9 Chloromethane | 50 | | 4.351 | 4.351 | (0.424) | 138261 | 125.000 | 120 |
| 10 Vinyl Chloride | 62 | | 4.612 | 4.612 | (0.450) | 72610 | 125.000 | 130 |
| 11 Bromomethane | 94 | | 5.413 | 5.413 | (0.528) | 36823 | 125.000 | 120 |
| 12 Chloroethane | 64 | | 5.639 | 5.639 | (0.550) | 28834 | 125.000 | 130 |
| 13 Trichlorofluoromethane | 101 | | 6.127 | 6.127 | (0.598) | 103142 | 125.000 | 140 |
| 14 Acrolein | 56 | | 6.858 | 6.858 | (0.669) | 51313 | 1250.00 | 940 |
| 15 1,1,1-trichloro-2,2,2-trifluo | 117 | | 6.962 | 6.962 | (0.679) | 85961 | 125.000 | 140 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 16 1,1,2-trichloro-1,2,2-trifluo | 85 | 6.997 | 6.997 | (0.682) | 89041 | 125.000 | 130 |
| 17 1,1-Dichloroethene | 96 | 7.015 | 7.015 | (0.684) | 135419 | 125.000 | 130 |
| 18 Acetone | 43 | 7.067 | 7.067 | (0.689) | 65128 | 625.000 | 560 |
| 19 Iodomethane | 142 | 7.258 | 7.258 | (0.708) | 195997 | 125.000 | 130 |
| 20 Carbon disulfide | 76 | 7.380 | 7.380 | (0.720) | 531302 | 125.000 | 130 |
| 22 3-Chloropropene | 39 | 7.537 | 7.537 | (0.735) | 122986 | 125.000 | 100 |
| 23 Acetonitrile | 41 | 7.537 | 7.537 | (0.735) | 187269 | 125.000 | 110 |
| 24 Methyl acetate | 43 | 7.520 | 7.520 | (0.733) | 80610 | 125.000 | 110 |
| 25 Methylene Chloride | 84 | 7.711 | 7.711 | (0.752) | 133094 | 125.000 | 130 |
| 26 Acrylonitrile | 53 | 8.007 | 8.007 | (0.781) | 129785 | 1250.00 | 1100 |
| 28 trans-1,2-Dichloroethene | 96 | 8.059 | 8.059 | (0.786) | 164057 | 125.000 | 140 |
| 27 Methyl-tert-butyl ether | 73 | 8.025 | 8.025 | (0.783) | 154079 | 125.000 | 110 |
| 30 Isopropyl ether | 45 | 8.582 | 8.582 | (0.837) | 325255 | 125.000 | 100 |
| 31 Vinyl acetate | 43 | 8.582 | 8.582 | (0.837) | 136416 | 250.000 | 210 |
| 32 1,1-Dichloroethane | 63 | 8.564 | 8.564 | (0.835) | 249377 | 125.000 | 130 |
| 33 Chloroprene | 53 | 8.669 | 8.669 | (0.845) | 185883 | 125.000 | 110 |
| 34 2-butanone | 43 | 9.139 | 9.139 | (0.891) | 83208 | 625.000 | 480 |
| 35 2,2-Dichloropropane | 77 | 9.191 | 9.191 | (0.896) | 205449 | 125.000 | 130 |
| 36 cis-1,2-Dichloroethene | 96 | 9.191 | 9.191 | (0.896) | 149920 | 125.000 | 140 |
| 37 Propionitrile | 54 | 9.226 | 9.226 | (0.900) | 230725 | 6250.00 | 5500 |
| 38 Methacrylonitrile | 41 | 9.365 | 9.365 | (0.913) | 243308 | 1250.00 | 1000 |
| 39 Bromochloromethane | 128 | 9.435 | 9.435 | (0.920) | 55107 | 125.000 | 140 |
| 40 Chloroform | 83 | 9.470 | 9.470 | (0.924) | 240211 | 125.000 | 130 |
| 42 1,1,1-Trichloroethane | 97 | 9.696 | 9.696 | (0.946) | 208632 | 125.000 | 130 |
| 43 Cyclohexane | 84 | 9.748 | 9.748 | (0.951) | 183754 | 125.000 | 100 |
| 44 1,1-dichloropropene | 75 | 9.835 | 9.835 | (0.959) | 197046 | 125.000 | 120 |
| 45 Isobutyl alcohol | 43 | 9.801 | 9.801 | (0.956) | 62298 | 6250.00 | 4100 |
| 46 Carbon Tetrachloride | 117 | 9.853 | 9.853 | (0.961) | 192294 | 125.000 | 140 |
| 47 Benzene | 78 | 10.009 | 10.009 | (0.976) | 523694 | 125.000 | 130 |
| 48 1,2-Dichloroethane | 62 | 10.027 | 10.027 | (0.978) | 98534 | 125.000 | 120 |
| 49 Trichloroethene | 130 | 10.584 | 10.584 | (1.032) | 160756 | 125.000 | 130 |
| 50 Methylcyclohexane | 83 | 10.741 | 10.741 | (1.048) | 199994 | 125.000 | 110 |
| 51 1,2-Dichloropropane | 63 | 10.758 | 10.758 | (1.049) | 111287 | 125.000 | 130 |
| 52 Methylmethacrylate | 69 | 10.758 | 10.758 | (1.049) | 329500 | 1250.00 | 1100 |
| 53 1,4-dioxane | 88 | 10.828 | 10.828 | (1.056) | 19148 | 6250.00 | 5800 |
| 54 Dibromomethane | 174 | 10.880 | 10.880 | (1.061) | 56362 | 125.000 | 150 |
| 55 Bromodichloromethane | 83 | 10.967 | 10.967 | (1.070) | 145709 | 125.000 | 120 |
| 56 2-chloroethyl vinyl ether | 63 | 11.141 | 11.141 | (1.087) | 34997 | 1250.00 | 980 |
| 57 cis-1,3-Dichloropropene | 75 | 11.315 | 11.315 | (1.104) | 151365 | 125.000 | 120 |
| 58 4-Methyl-2-pentanone | 43 | 11.368 | 11.368 | (0.898) | 185446 | 625.000 | 440 |
| 59 Toluene | 92 | 11.594 | 11.594 | (0.916) | 318714 | 125.000 | 120 |
| 60 Ethylmethacrylate | 69 | 11.698 | 11.698 | (0.924) | 685926 | 1250.00 | 1100 |
| 61 trans-1,3-Dichloropropene | 75 | 11.733 | 11.733 | (0.927) | 122166 | 125.000 | 120 |
| 62 1,1,2-Trichloroethane | 97 | 11.890 | 11.890 | (0.939) | 64030 | 125.000 | 120 |
| 63 2-hexanone | 43 | 11.995 | 11.995 | (0.948) | 122071 | 625.000 | 410 |
| 64 1,3-Dichloropropane | 76 | 12.029 | 12.029 | (0.950) | 108755 | 125.000 | 120 |
| 65 Tetrachloroethene | 164 | 12.047 | 12.047 | (0.952) | 129682 | 125.000 | 130 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|---------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 66 Dibromochloromethane | 129 | 12.221 | 12.221 | (0.966) | 89889 | 125.000 | 120 |
| 67 1,2-Dibromoethane | 107 | 12.343 | 12.343 | (0.975) | 64133 | 125.000 | 120 |
| 68 1-Chlorohexane | 55 | 12.569 | 12.569 | (0.993) | 122082 | 125.000 | 100 |
| 69 Chlorobenzene | 112 | 12.674 | 12.674 | (1.001) | 334666 | 125.000 | 120 |
| 70 Ethylbenzene | 106 | 12.708 | 12.708 | (1.004) | 184097 | 125.000 | 120 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.726 | 12.726 | (1.006) | 119266 | 125.000 | 130 |
| 72 m,p-Xylene | 106 | 12.778 | 12.778 | (1.010) | 449292 | 250.000 | 240 |
| 73 o-Xylene | 106 | 13.091 | 13.091 | (1.034) | 209178 | 125.000 | 120 |
| 74 Styrene | 104 | 13.091 | 13.091 | (1.034) | 321722 | 125.000 | 120 |
| 75 Bromoform | 173 | 13.283 | 13.283 | (1.050) | 46172 | 125.000 | 120 |
| 76 Isopropyl Benzene | 105 | 13.335 | 13.335 | (1.054) | 560647 | 125.000 | 110 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.544 | 13.544 | (0.941) | 71951 | 125.000 | 100 |
| 79 1,2,3-Trichloropropane | 110 | 13.614 | 13.614 | (1.076) | 18427 | 125.000 | 130 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.562 | 13.562 | (1.072) | 59662 | 500.000 | 400 |
| 80 n-Propyl Benzene | 91 | 13.631 | 13.631 | (0.947) | 683947 | 125.000 | 99 |
| 81 Bromobenzene | 156 | 13.649 | 13.649 | (1.078) | 131621 | 125.000 | 130 |
| 82 1,3,5-Trimethyl Benzene | 105 | 13.736 | 13.736 | (0.954) | 419568 | 125.000 | 100 |
| 83 2-Chlorotoluene | 126 | 13.771 | 13.771 | (0.956) | 144010 | 125.000 | 110 |
| 84 4-Chlorotoluene | 126 | 13.840 | 13.840 | (0.961) | 138190 | 125.000 | 110 |
| 85 tert-Butyl Benzene | 119 | 14.014 | 14.014 | (0.973) | 425815 | 125.000 | 100 |
| 86 1,2,4-Trimethyl Benzene | 105 | 14.049 | 14.049 | (0.976) | 418199 | 125.000 | 100 |
| 87 Pentachloroethane | 167 | 14.084 | 14.084 | (0.978) | 84539 | 125.000 | 130 |
| 88 sec-Butyl Benzene | 105 | 14.188 | 14.188 | (0.985) | 594324 | 125.000 | 99 |
| 89 p-Isopropyl Toluene | 119 | 14.275 | 14.275 | (0.992) | 457555 | 125.000 | 100 |
| 90 1,3-Dichlorobenzene | 146 | 14.363 | 14.363 | (0.998) | 269719 | 125.000 | 110 |
| 91 1,4-Dichlorobenzene | 146 | 14.432 | 14.432 | (1.002) | 253998 | 125.000 | 110 |
| 92 n-Butyl Benzene | 91 | 14.606 | 14.606 | (1.014) | 443492 | 125.000 | 93 |
| 93 1,2-Dichlorobenzene | 146 | 14.746 | 14.746 | (1.024) | 208558 | 125.000 | 110 |
| 94 1,2-Dibromo-3-Chloropropane | 75 | 15.425 | 15.425 | (1.071) | 7409 | 125.000 | 78 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.295 | 16.295 | (1.132) | 131946 | 125.000 | 100 |
| 96 Hexachlorobutadiene | 225 | 16.417 | 16.417 | (1.140) | 74845 | 125.000 | 100 |
| 97 Naphthalene | 128 | 16.609 | 16.609 | (1.154) | 139829 | 125.000 | 85 |
| 98 1,2,3-Trichlorobenzene | 180 | 16.905 | 16.905 | (1.174) | 100212 | 125.000 | 100 |
| M 99 1,2-Dichloroethene (total) | 96 | | | | 313977 | 250.000 | 280 |
| M 100 Xylene (total) | 106 | | | | 658470 | 125.000 | 370 |

COMPUCHEM a division of Liberty Analytical Corp DATE 3/19/09
 GC/MS VOLATILE RUN LOG
 COMPUCHEM LOGBOOK 11 ZZZ 24 (5972hp73)

INITIAL TIME OF TUNE 2129 TIME TUNE EXPIRES 929 SHIFT(S/A) (B) X (C)
 LINKER/METHOD 82608 25mL

PREVENTIVE MAINTENANCE

Tune

| FILE NAME | pH | Vial | DATE | TIME | Client ID | SDG# | INI. VOL.* | DF+ | CHEMIST | COMMENT(S) / DISPOSITION |
|--------------|----|------|---------|------|----------------|---------|------------|------|---------|--------------------------|
| QC19010-TMNI | - | - | 3/19/09 | 2129 | BEFB | - | 2.0L | - | TD | RED = SCR |
| CV1 | - | - | 1/1 | 2155 | VSTD005 | - | 25mL | - | | |
| Q031920-BLK | - | - | 1/1 | 2230 | VBLKDD | VARIOUS | | | | |
| BS1 | - | - | 1/1 | 2259 | VDBLCS | | | | | |
| BS1 | - | - | 1/1 | 2328 | VDBLCS | | | | | |
| Q03084-06R | 1 | B | 1/1 | 2358 | MW-17 | 0903084 | | | | |
| 05D | 1 | 1 | 3/20/09 | 0027 | MW-12 | | 6mL | 4.17 | | |
| 02D | 1 | 1 | 1/1 | 0056 | MW-2 | | 2mL | 12.5 | | |
| Q031920-MS1 | 1 | 1 | 1/1 | 0125 | MW-3 MS | | 25mL | - | | |
| MSD1 | 1 | C | 1/1 | 0135 | MW-3 MSD | | | | | |
| Q03084-07 | 1 | A | 1/1 | 0224 | TRIP BLANK | | | | | LA. NEGATIVE |
| Q03099-01 | 1 | A | 1/1 | 0253 | GW031769TP001 | 0903099 | 25mL | | | |
| 02 | 1 | 1 | 1/1 | 0323 | TB031709 TP001 | | | | | |
| 03 | 1 | 1 | 1/1 | 0352 | GW031769TP002 | | | | | |
| 04 | 6 | 6 | 1/1 | 0421 | GW031769TP003 | | | | | |
| 05 | 1 | 1 | 1/1 | 0451 | GW031709TP004 | | | | | |
| Q03109-01 | 1 | 1 | 1/1 | 0520 | EW10317 | 6903109 | 25mL | | | |
| 02 | 1 | 1 | 1/1 | 0549 | EW20317 | | | | | |
| 03 | 1 | 1 | 1/1 | 0618 | EW30317 | | | | | |
| 04 | 1 | 1 | 1/1 | 0648 | EW40317 | | | | | |
| 05 | 1 | 1 | 1/1 | 0717 | EW50317 | | | | | |
| 06 | 1 | 1 | 1/1 | 0746 | EW60317 | | | | | |
| 07 | 1 | 1 | 1/1 | 0816 | EW70317 | | | | | |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Tune (ID #7008) Lot No.: 66499 Calibration Group Code / Lot No.: DC461

REVIEWED BY: [Signature] Date 3-20-09 75 # 66537

4. Raw QC Data

a. BFB Data

b. Blank Data

c. Laboratory Control Sample Data

d. Matrix Spike Data

e. Matrix Spike Duplicate Data

a. **BFB Data**

For each 12 hour period, per instrument utilized, include:

- Bar Graph spectrum and Tabulated Relative Abundances
- Mass listing
- Reconstructed ion chromatogram

Date : 16-MAR-2009 10:03

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C16001-TUN1;JAO

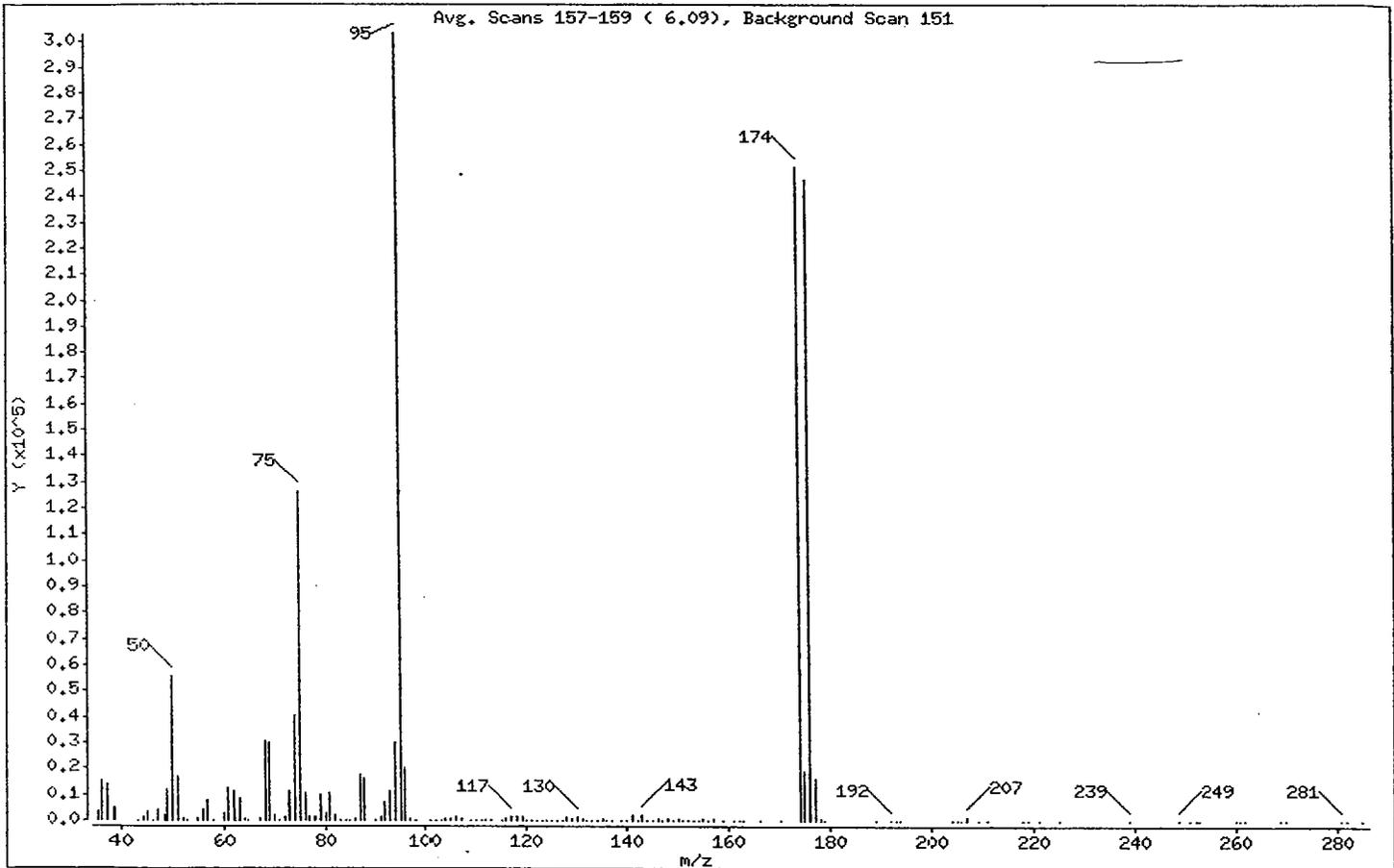
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.55 |
| 75 | 30.00 - 60.00% of mass 95 | 41.82 |
| 96 | 5.00 - 9.00% of mass 95 | 6.68 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | Greater than 50.00% of mass 95 | 83.01 |
| 175 | 5.00 - 9.00% of mass 174 | 6.20 (7.47) |
| 176 | 95.00 - 101.00% of mass 174 | 81.35 (98.00) |
| 177 | 5.00 - 9.00% of mass 176 | 5.28 (6.49) |

Date : 16-MAR-2009 10:03

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C16001-TUN1:JAO

Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C16001-TUN173.d

Spectrum: Avg. Scans 157-159 (6.09), Background Scan 151

Location of Maximum: 95.00

Number of points: 149

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|--------|--------|------|--------|--------|
| 36.00 | 3406 | 80.00 | 2503 | 123.00 | 176 | 166.00 | 166 |
| 37.00 | 15440 | 81.00 | 10178 | 124.00 | 275 | 170.00 | 75 |
| 38.00 | 13745 | 82.00 | 1887 | 125.00 | 12 | 174.00 | 251520 |
| 39.00 | 4991 | 83.00 | 64 | 126.00 | 60 | 175.00 | 18792 |
| 43.00 | 70 | 84.00 | 100 | 127.00 | 12 | 176.00 | 246464 |
| 44.00 | 1235 | 85.00 | 95 | 128.00 | 1106 | 177.00 | 15991 |
| 45.00 | 3308 | 86.00 | 354 | 129.00 | 496 | 178.00 | 497 |
| 46.00 | 9 | 87.00 | 17120 | 130.00 | 1156 | 179.00 | 55 |
| 47.00 | 4279 | 88.00 | 16123 | 131.00 | 438 | 189.00 | 178 |
| 48.00 | 1789 | 90.00 | 101 | 132.00 | 98 | 192.00 | 190 |
| 49.00 | 11703 | 91.00 | 1370 | 133.00 | 292 | 193.00 | 103 |
| 50.00 | 56192 | 92.00 | 7085 | 134.00 | 11 | 194.00 | 44 |
| 51.00 | 16784 | 93.00 | 11114 | 135.00 | 384 | 204.00 | 42 |
| 52.00 | 449 | 94.00 | 29968 | 136.00 | 65 | 205.00 | 103 |
| 53.00 | 285 | 95.00 | 302976 | 137.00 | 297 | 206.00 | 33 |
| 55.00 | 560 | 96.00 | 20248 | 139.00 | 128 | 207.00 | 1125 |
| 56.00 | 4208 | 97.00 | 728 | 140.00 | 45 | 209.00 | 79 |
| 57.00 | 7596 | 98.00 | 89 | 141.00 | 1944 | 211.00 | 64 |
| 58.00 | 100 | 101.00 | 40 | 142.00 | 81 | 218.00 | 42 |
| 60.00 | 2613 | 102.00 | 16 | 143.00 | 2357 | 219.00 | 76 |
| 61.00 | 12315 | 103.00 | 262 | 144.00 | 217 | 221.00 | 38 |
| 62.00 | 11480 | 104.00 | 946 | 145.00 | 147 | 225.00 | 38 |
| 63.00 | 8588 | 105.00 | 386 | 146.00 | 378 | 239.00 | 245 |
| 64.00 | 818 | 106.00 | 1132 | 147.00 | 192 | 249.00 | 221 |
| 65.00 | 20 | 107.00 | 589 | 148.00 | 583 | 251.00 | 66 |
| 67.00 | 415 | 109.00 | 111 | 149.00 | 284 | 252.00 | 82 |
| 68.00 | 30544 | 110.00 | 177 | 150.00 | 386 | 253.00 | 38 |
| 69.00 | 29728 | 111.00 | 279 | 151.00 | 6 | 260.00 | 133 |
| 70.00 | 2087 | 112.00 | 304 | 152.00 | 150 | 261.00 | 84 |
| 71.00 | 122 | 113.00 | 328 | 153.00 | 218 | 262.00 | 36 |
| 72.00 | 1296 | 115.00 | 297 | 154.00 | 156 | 269.00 | 19 |
| 73.00 | 10966 | 116.00 | 813 | 155.00 | 638 | 270.00 | 14 |
| 74.00 | 40248 | 117.00 | 1567 | 156.00 | 93 | 281.00 | 254 |
| 75.00 | 126704 | 118.00 | 1054 | 157.00 | 382 | 282.00 | 5 |
| 76.00 | 10603 | 119.00 | 1145 | 159.00 | 300 | 285.00 | 36 |

Data File: /chem/5972hp73.i/DF090316A73_REG.b/9C16001-TUN173.d

Date : 16-MAR-2009 10:03

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C16001-TUN1:JAO

Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C16001-TUN173.d

Spectrum: Avg. Scans 157-159 (6.09), Background Scan 151

Location of Maximum: 95.00

Number of points: 149

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|------|--------|----|--------|-----|-----|---|
| 77.00 | 1699 | 120.00 | 84 | 161.00 | 337 | | |
| 78.00 | 1219 | 121.00 | 79 | 162.00 | 24 | | |
| 79.00 | 9886 | 122.00 | 81 | 163.00 | 171 | | |

Data File: /chem/5972hp73.i/DF090316A73.REG.b/9C16001-TUN173.d

Date: 16-MAR-2009 10:03

Client ID: BFB

Sample Info: 9C16001-TUN1:JAO

Volume Injected (uL): 2.0

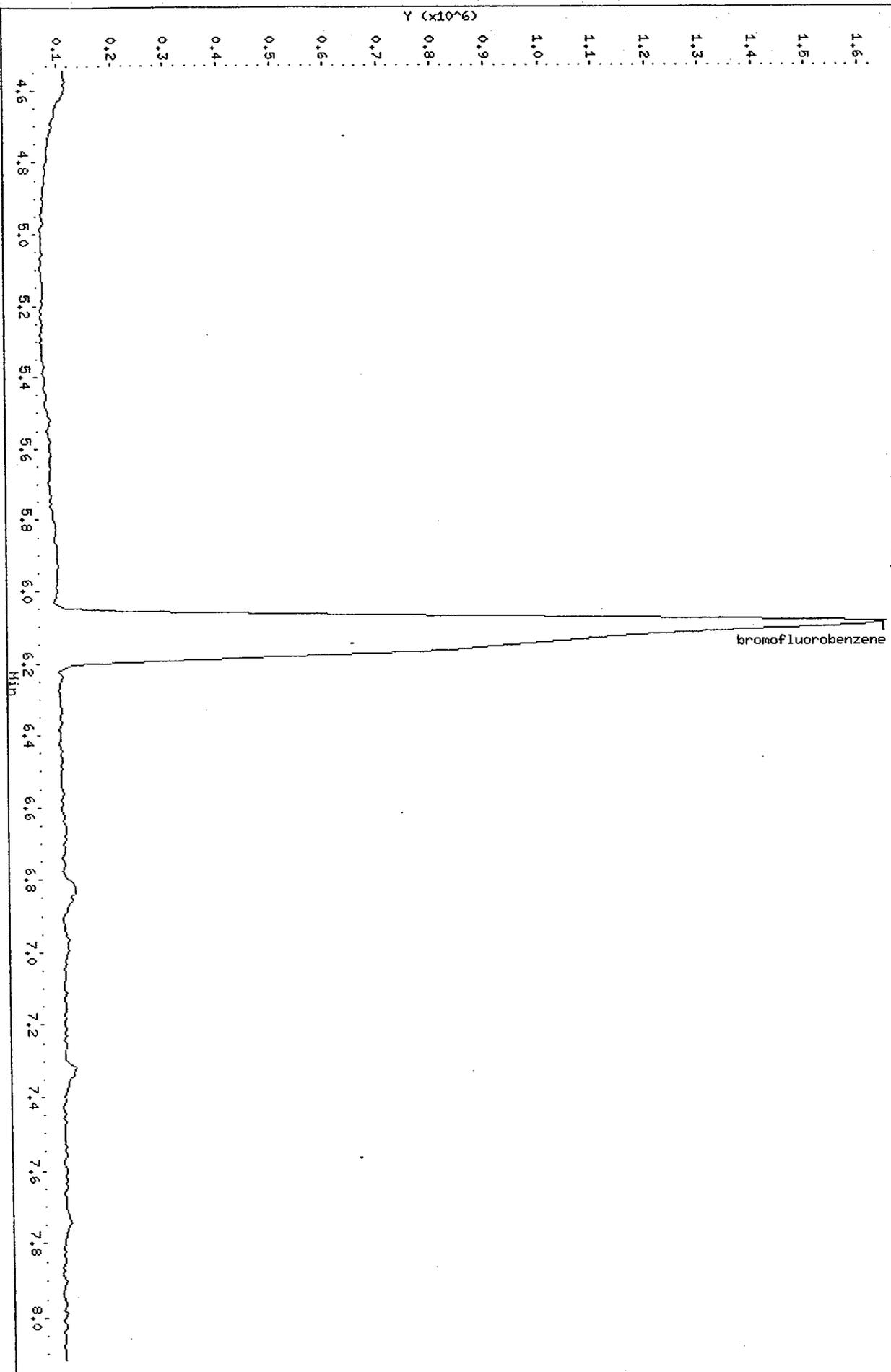
Column phase: SPB-624

Instrument: 5972hp73.i

Operator: JAO

Column diameter: 0.32

/chem/5972hp73.i/DF090316A73.REG.b/9C16001-TUN173.d



Date : 19-MAR-2009 09:29

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C19002-TUN1;JAO

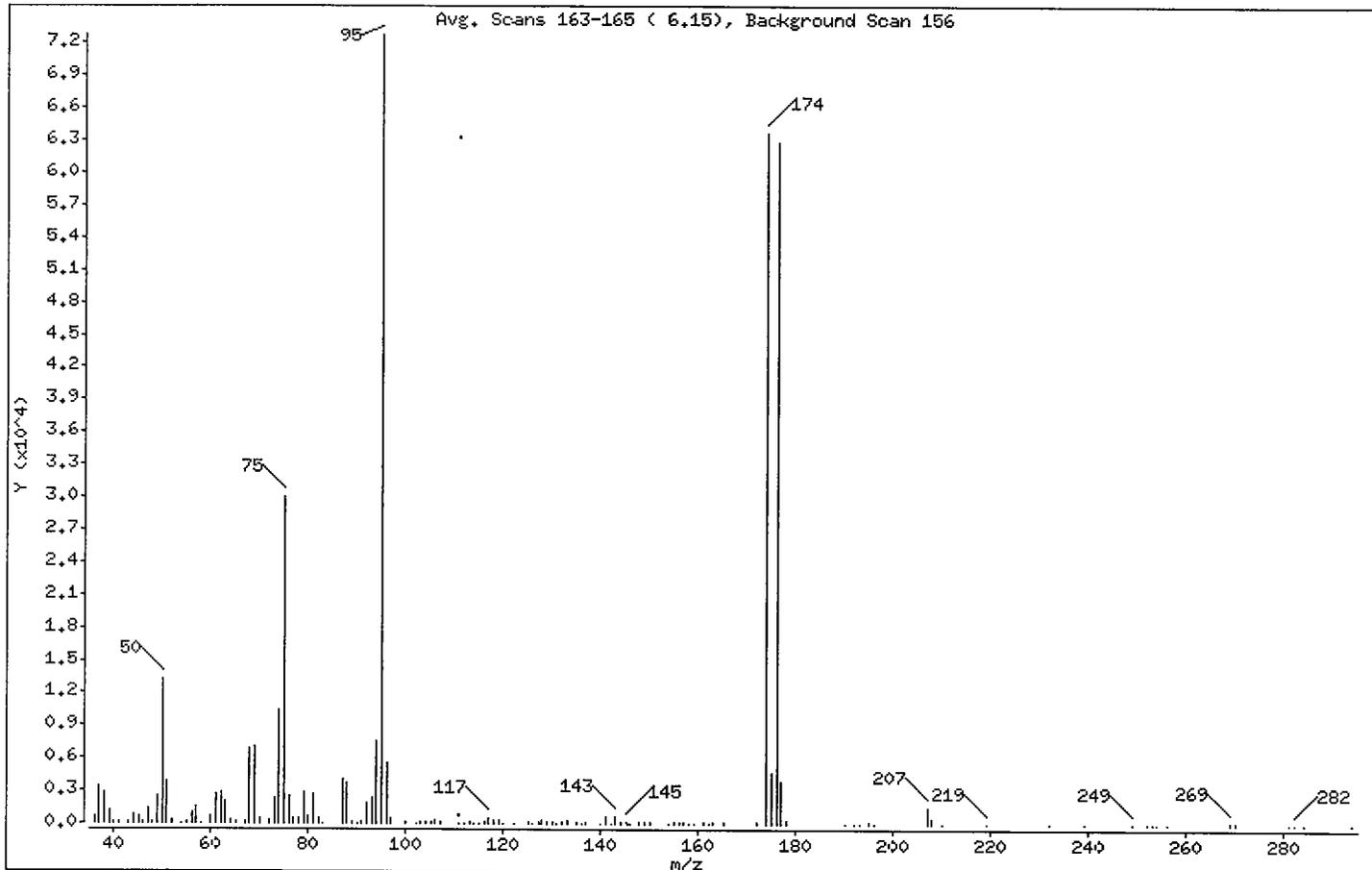
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 18.13 |
| 75 | 30.00 - 60.00% of mass 95 | 41.15 |
| 96 | 5.00 - 9.00% of mass 95 | 7.68 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | Greater than 50.00% of mass 95 | 87.57 |
| 175 | 5.00 - 9.00% of mass 174 | 6.42 (7.33) |
| 176 | 95.00 - 101.00% of mass 174 | 86.41 (98.68) |
| 177 | 5.00 - 9.00% of mass 176 | 5.27 (6.10) |

Date : 19-MAR-2009 09:29

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C19002-TUN1:JAO

Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C19002-TUN173.d

Spectrum: Avg. Scans 163-165 (6.15), Background Scan 156

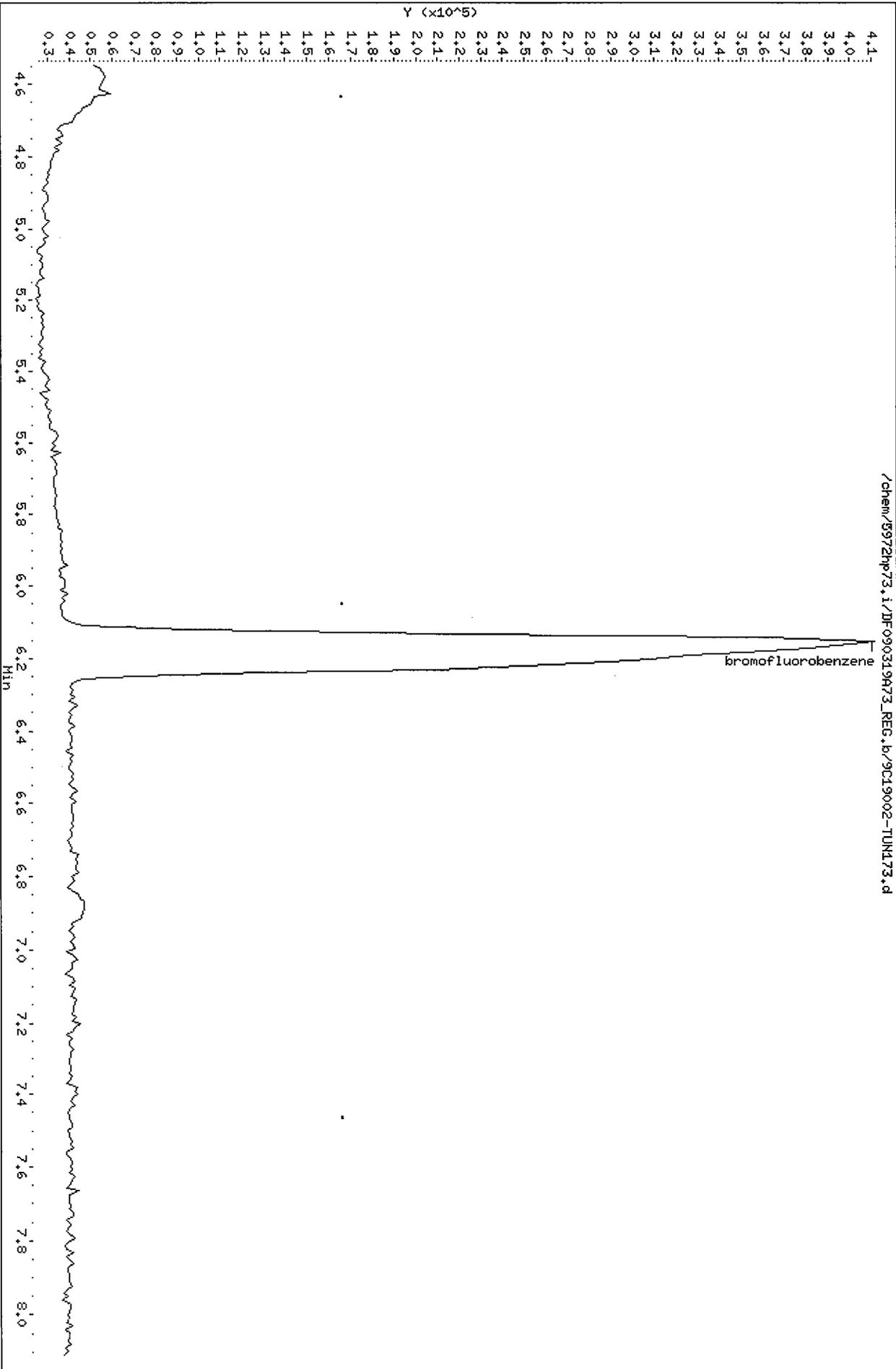
Location of Maximum: 95.00

Number of points: 132

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|-------|--------|-----|--------|-------|
| 36.00 | 621 | 75.00 | 29936 | 118.00 | 332 | 163.00 | 84 |
| 37.00 | 3401 | 76.00 | 2436 | 119.00 | 407 | 165.00 | 152 |
| 38.00 | 2930 | 77.00 | 493 | 120.00 | 39 | 172.00 | 146 |
| 39.00 | 1198 | 78.00 | 481 | 122.00 | 37 | 174.00 | 63704 |
| 40.00 | 106 | 79.00 | 2793 | 125.00 | 134 | 175.00 | 4672 |
| 41.00 | 148 | 80.00 | 697 | 126.00 | 35 | 176.00 | 62864 |
| 43.00 | 187 | 81.00 | 2643 | 127.00 | 97 | 177.00 | 3834 |
| 44.00 | 872 | 82.00 | 513 | 128.00 | 374 | 178.00 | 269 |
| 45.00 | 588 | 83.00 | 73 | 129.00 | 192 | 190.00 | 37 |
| 46.00 | 164 | 87.00 | 4102 | 130.00 | 195 | 192.00 | 46 |
| 47.00 | 1289 | 88.00 | 3685 | 131.00 | 82 | 193.00 | 8 |
| 48.00 | 162 | 89.00 | 84 | 132.00 | 151 | 195.00 | 87 |
| 49.00 | 2594 | 90.00 | 45 | 133.00 | 293 | 196.00 | 44 |
| 50.00 | 13191 | 91.00 | 196 | 135.00 | 226 | 207.00 | 1518 |
| 51.00 | 3874 | 92.00 | 1767 | 136.00 | 50 | 208.00 | 494 |
| 52.00 | 259 | 93.00 | 2396 | 137.00 | 113 | 210.00 | 24 |
| 54.00 | 38 | 94.00 | 7470 | 140.00 | 35 | 219.00 | 57 |
| 55.00 | 122 | 95.00 | 72752 | 141.00 | 618 | 232.00 | 35 |
| 56.00 | 972 | 96.00 | 5584 | 142.00 | 47 | 239.00 | 34 |
| 57.00 | 1428 | 97.00 | 578 | 143.00 | 644 | 249.00 | 76 |
| 58.00 | 76 | 100.00 | 200 | 144.00 | 138 | 252.00 | 34 |
| 60.00 | 590 | 102.00 | 76 | 145.00 | 244 | 253.00 | 48 |
| 61.00 | 2752 | 103.00 | 139 | 146.00 | 52 | 254.00 | 71 |
| 62.00 | 2808 | 104.00 | 195 | 148.00 | 169 | 256.00 | 34 |
| 63.00 | 1984 | 105.00 | 89 | 149.00 | 140 | 269.00 | 113 |
| 64.00 | 325 | 106.00 | 329 | 150.00 | 128 | 270.00 | 88 |
| 65.00 | 188 | 107.00 | 134 | 154.00 | 48 | 281.00 | 54 |
| 67.00 | 190 | 111.00 | 34 | 155.00 | 175 | 282.00 | 70 |
| 68.00 | 6951 | 112.00 | 47 | 156.00 | 126 | 284.00 | 40 |
| 69.00 | 7093 | 113.00 | 118 | 157.00 | 127 | 294.00 | 36 |
| 70.00 | 573 | 114.00 | 36 | 158.00 | 38 | | |
| 72.00 | 330 | 115.00 | 48 | 159.00 | 51 | | |
| 73.00 | 2354 | 116.00 | 237 | 161.00 | 101 | | |
| 74.00 | 10440 | 117.00 | 450 | 162.00 | 57 | | |

Data File: /chem/5972hp73.i/DF090319A73_REG.b/9C19002-TUN173.d
Date: 19-MAR-2009 09:29
Client ID: BFB
Sample Info: 9C19002-TUN1:J40
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: J40
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF090319B73.b/9C19010-TUN173.d

Date : 19-MAR-2009 21:29

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C19010-TUN1:TD

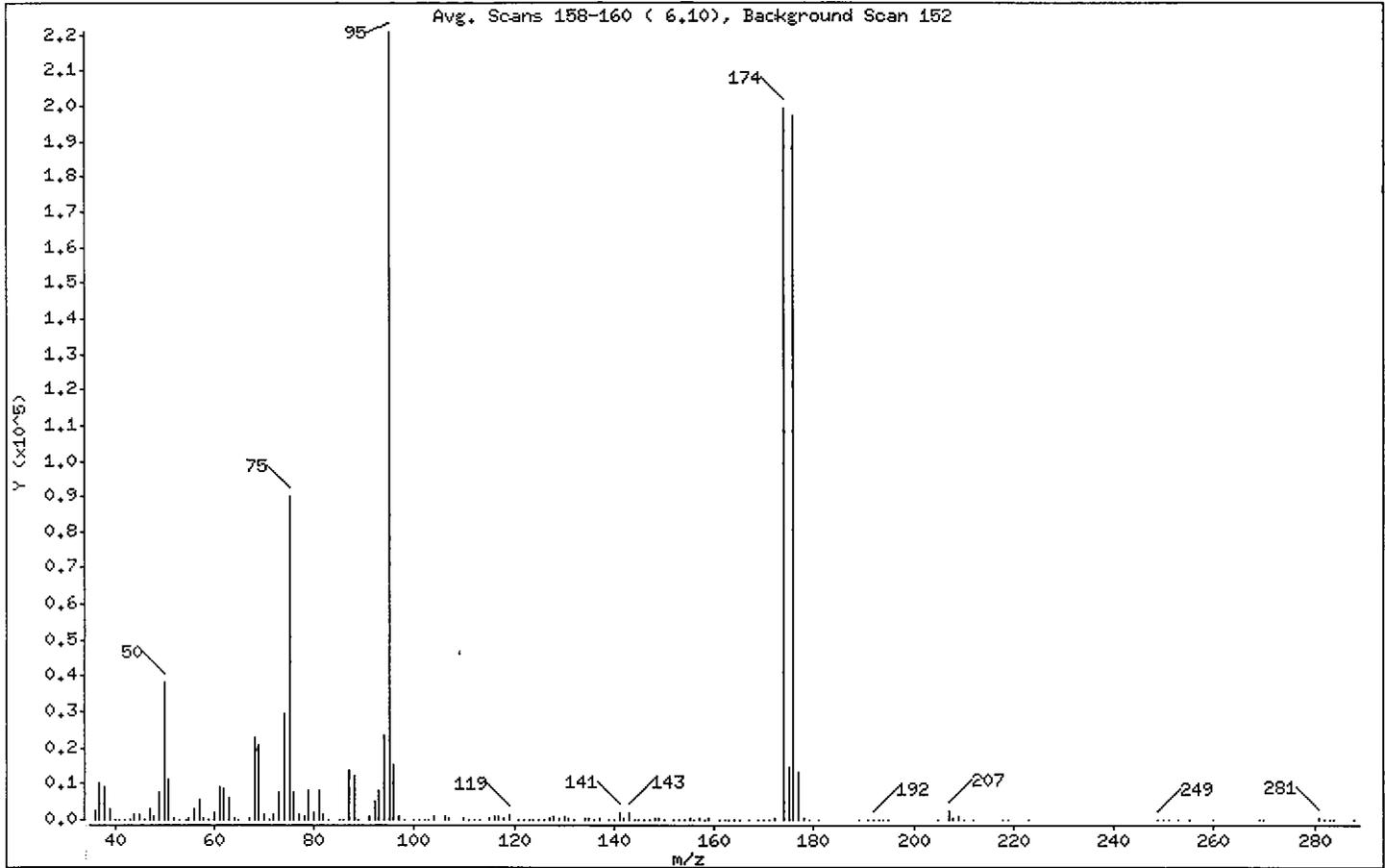
Volume Injected (uL): 2.0

Operator: TD

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 17.19 |
| 75 | 30.00 - 60.00% of mass 95 | 40.70 |
| 96 | 5.00 - 9.00% of mass 95 | 7.01 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | Greater than 50.00% of mass 95 | 90.23 |
| 175 | 5.00 - 9.00% of mass 174 | 6.60 (7.32) |
| 176 | 95.00 - 101.00% of mass 174 | 89.36 (99.04) |
| 177 | 5.00 - 9.00% of mass 176 | 6.02 (6.73) |

Data File: /chem/5972hp73.i/DF090319B73.b/9C19010-TUN173.d

Date : 19-MAR-2009 21:29

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C19010-TUN1:TD

Volume Injected (uL): 2.0

Operator: TD

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C19010-TUN173.d

Spectrum: Avg. Scans 158-160 (6.10), Background Scan 152

Location of Maximum: 95.00

Number of points: 157

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|--------|--------|------|--------|--------|
| 36.00 | 2389 | 77.00 | 1542 | 125.00 | 178 | 171.00 | 40 |
| 37.00 | 10013 | 78.00 | 1045 | 126.00 | 242 | 172.00 | 520 |
| 38.00 | 9272 | 79.00 | 8233 | 127.00 | 281 | 174.00 | 199360 |
| 39.00 | 3063 | 80.00 | 2078 | 128.00 | 769 | 175.00 | 14592 |
| 40.00 | 191 | 81.00 | 8070 | 129.00 | 345 | 176.00 | 197376 |
| 41.00 | 225 | 82.00 | 1508 | 130.00 | 809 | 177.00 | 13293 |
| 42.00 | 25 | 83.00 | 187 | 131.00 | 288 | 178.00 | 404 |
| 43.00 | 49 | 85.00 | 47 | 132.00 | 86 | 179.00 | 142 |
| 44.00 | 1692 | 86.00 | 110 | 134.00 | 326 | 181.00 | 42 |
| 45.00 | 1522 | 87.00 | 13525 | 135.00 | 521 | 189.00 | 58 |
| 46.00 | 109 | 88.00 | 12395 | 136.00 | 78 | 191.00 | 76 |
| 47.00 | 3034 | 89.00 | 27 | 137.00 | 403 | 192.00 | 169 |
| 48.00 | 1270 | 91.00 | 808 | 139.00 | 134 | 193.00 | 88 |
| 49.00 | 7839 | 92.00 | 4943 | 140.00 | 116 | 194.00 | 98 |
| 50.00 | 37976 | 93.00 | 8151 | 141.00 | 2070 | 195.00 | 138 |
| 51.00 | 11305 | 94.00 | 23416 | 142.00 | 310 | 205.00 | 52 |
| 52.00 | 521 | 95.00 | 220928 | 143.00 | 1876 | 207.00 | 2356 |
| 53.00 | 187 | 96.00 | 15495 | 144.00 | 38 | 208.00 | 403 |
| 54.00 | 37 | 97.00 | 765 | 145.00 | 69 | 209.00 | 857 |
| 55.00 | 536 | 98.00 | 69 | 146.00 | 56 | 210.00 | 57 |
| 56.00 | 3026 | 100.00 | 1 | 147.00 | 252 | 212.00 | 37 |
| 57.00 | 5429 | 101.00 | 34 | 148.00 | 655 | 218.00 | 43 |
| 58.00 | 265 | 102.00 | 153 | 149.00 | 263 | 219.00 | 44 |
| 59.00 | 44 | 103.00 | 24 | 150.00 | 118 | 223.00 | 40 |
| 60.00 | 1824 | 104.00 | 868 | 152.00 | 188 | 249.00 | 198 |
| 61.00 | 9108 | 106.00 | 847 | 153.00 | 71 | 250.00 | 43 |
| 62.00 | 8684 | 107.00 | 378 | 154.00 | 145 | 251.00 | 55 |
| 63.00 | 5902 | 110.00 | 291 | 155.00 | 450 | 253.00 | 19 |
| 64.00 | 359 | 111.00 | 241 | 156.00 | 238 | 255.00 | 54 |
| 65.00 | 250 | 112.00 | 218 | 157.00 | 298 | 260.00 | 36 |
| 67.00 | 487 | 113.00 | 223 | 158.00 | 196 | 269.00 | 108 |
| 68.00 | 22912 | 115.00 | 288 | 159.00 | 366 | 270.00 | 220 |
| 69.00 | 20784 | 116.00 | 771 | 161.00 | 115 | 281.00 | 297 |
| 70.00 | 1701 | 117.00 | 1246 | 162.00 | 48 | 282.00 | 119 |
| 71.00 | 36 | 118.00 | 599 | 163.00 | 80 | 283.00 | 72 |

Data File: /chem/5972hp73.i/DF090319B73.b/9C19010-TUN173.d

Date : 19-MAR-2009 21:29

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C19010-TUN1;TD

Volume Injected (uL): 2.0

Operator: TD

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C19010-TUN173.d

Spectrum: Avg. Scans 158-160 (6.10), Background Scan 152

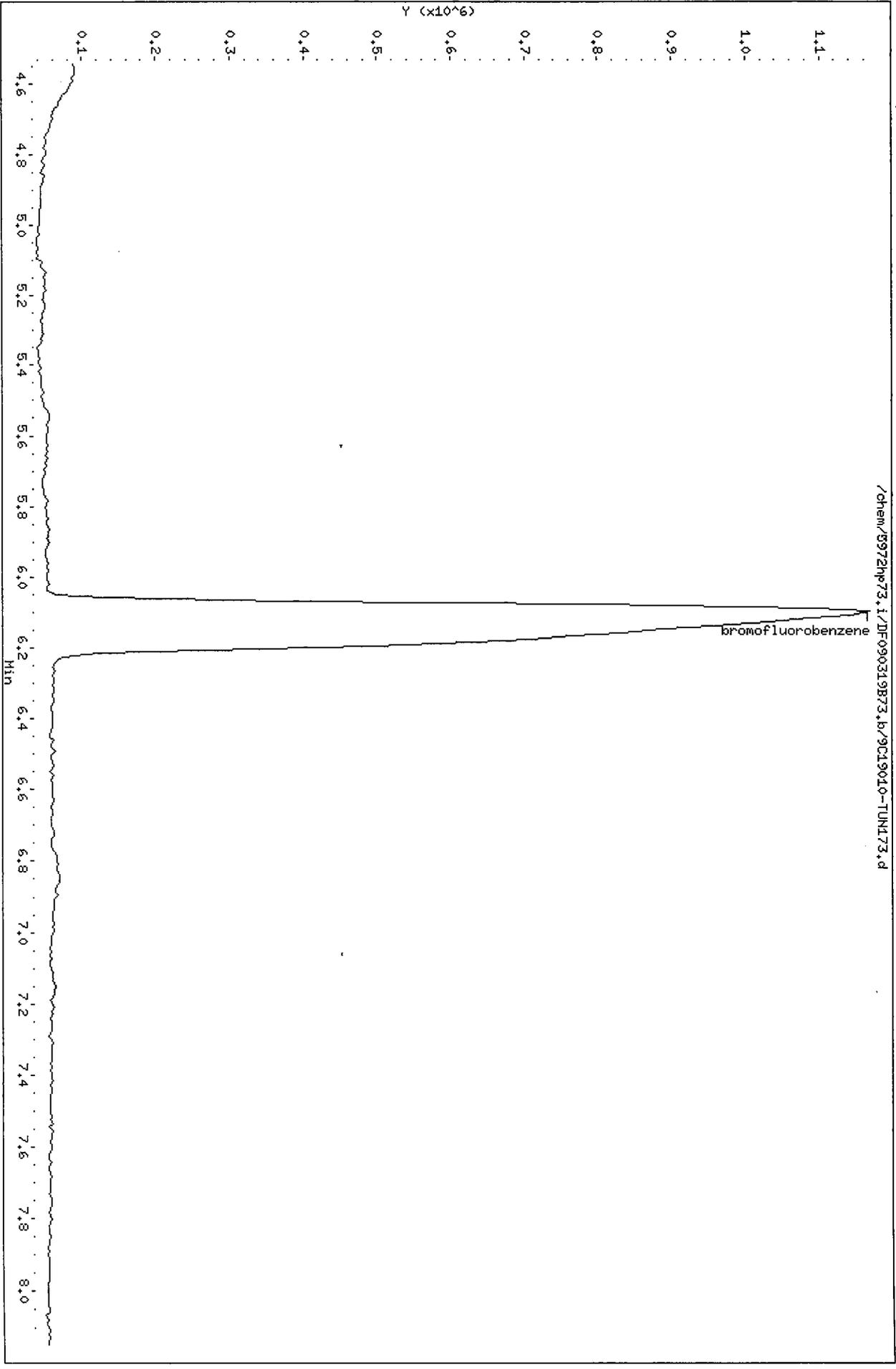
Location of Maximum: 95.00

Number of points: 157

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|------|--------|-----|--------|----|
| \| 72.00 | 1435 | \| 119.00 | 1304 | \| 164.00 | 163 | \| 284.00 | 49 |
| \| 73.00 | 7853 | \| 121.00 | 132 | \| 165.00 | 12 | \| 288.00 | 33 |
| \| 74.00 | 29560 | \| 122.00 | 149 | \| 167.00 | 155 | \| | \| |
| \| 75.00 | 89912 | \| 123.00 | 95 | \| 169.00 | 35 | \| | \| |
| \| 76.00 | 7753 | \| 124.00 | 177 | \| 170.00 | 45 | \| | \| |

Data File: /chem/5972hp73.i/DF090319B73.b/9C19010-TUN173.d
Date: 19-MAR-2009 21:29
Client ID: BFB
Sample Info: 9C19010-TUN1:TD
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



Date : 20-MAR-2009 11:44

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C20003-TUN1:JAO

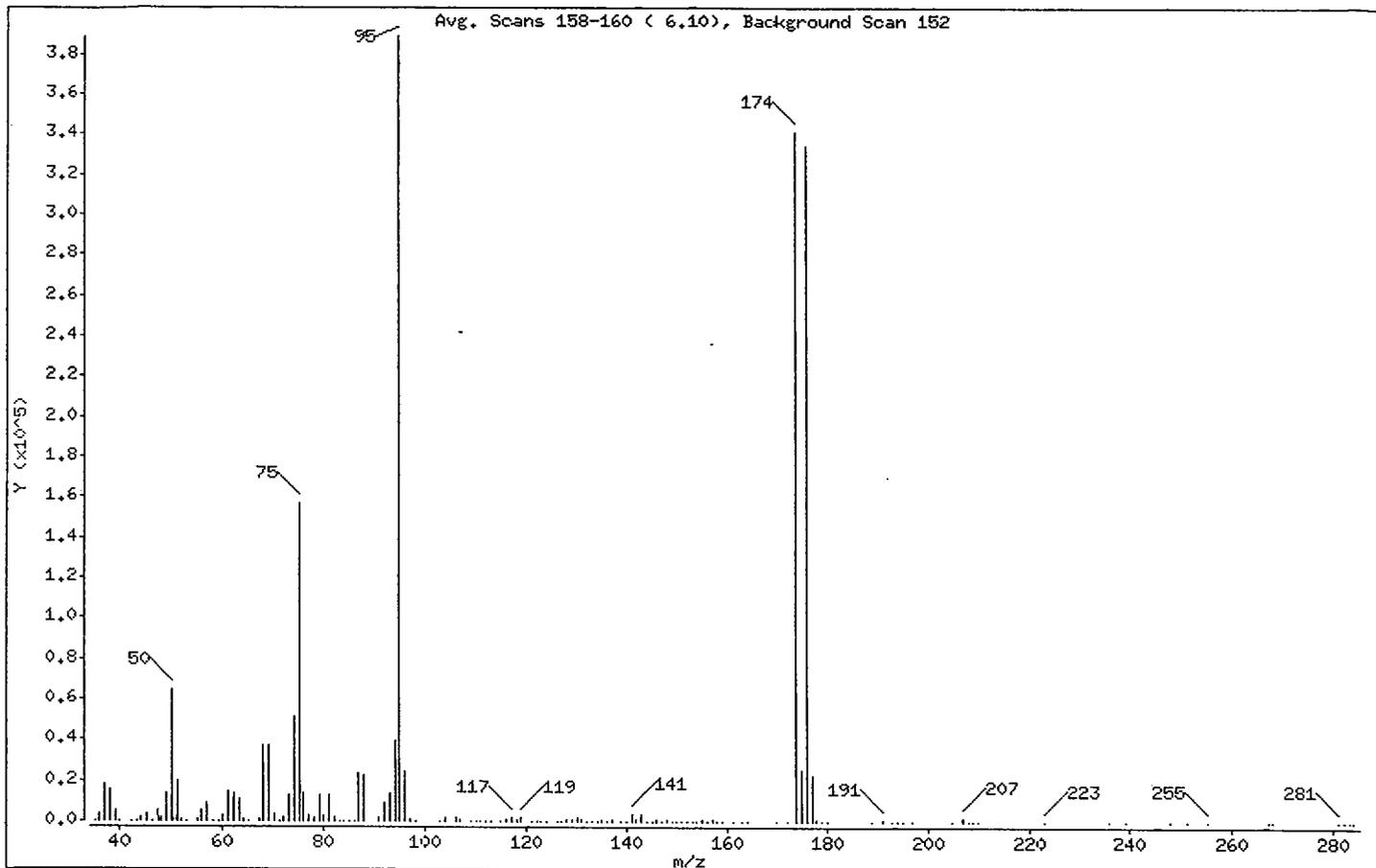
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 16.57 |
| 75 | 30.00 - 60.00% of mass 95 | 40.38 |
| 96 | 5.00 - 9.00% of mass 95 | 6.13 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | Greater than 50.00% of mass 95 | 87.86 |
| 175 | 5.00 - 9.00% of mass 174 | 6.40 (7.28) |
| 176 | 95.00 - 101.00% of mass 174 | 85.88 (97.75) |
| 177 | 5.00 - 9.00% of mass 176 | 5.78 (6.73) |

Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-TUN173.d

Date : 20-MAR-2009 11:44

Client ID: BFB

Instrument: 5972hp73.i

Sample Info: 9C20003-TUN1:JAO

Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C20003-TUN173.d

Spectrum: Avg. Scans 158-160 (6.10), Background Scan 152

Location of Maximum: 95.00

Number of points: 145

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|--------|--------|--------|------|--------|--------|
| 35.00 | 39 | 75.00 | 156928 | 122.00 | 93 | 163.00 | 35 |
| 36.00 | 3937 | 76.00 | 13630 | 123.00 | 109 | 164.00 | 74 |
| 37.00 | 17912 | 77.00 | 2439 | 124.00 | 282 | 170.00 | 40 |
| 38.00 | 15135 | 78.00 | 1966 | 126.00 | 7 | 172.00 | 325 |
| 39.00 | 5719 | 79.00 | 12827 | 127.00 | 211 | 174.00 | 341504 |
| 40.00 | 105 | 80.00 | 3035 | 128.00 | 1276 | 175.00 | 24856 |
| 42.00 | 29 | 81.00 | 12626 | 129.00 | 749 | 176.00 | 333824 |
| 43.00 | 210 | 82.00 | 2123 | 130.00 | 1344 | 177.00 | 22448 |
| 44.00 | 1706 | 83.00 | 362 | 131.00 | 722 | 178.00 | 619 |
| 45.00 | 3554 | 84.00 | 80 | 132.00 | 65 | 179.00 | 131 |
| 46.00 | 212 | 85.00 | 203 | 133.00 | 418 | 180.00 | 43 |
| 47.00 | 5733 | 86.00 | 203 | 134.00 | 228 | 189.00 | 166 |
| 48.00 | 2215 | 87.00 | 23704 | 135.00 | 719 | 191.00 | 632 |
| 49.00 | 13496 | 88.00 | 22768 | 136.00 | 129 | 193.00 | 56 |
| 50.00 | 64416 | 91.00 | 1458 | 137.00 | 758 | 194.00 | 120 |
| 51.00 | 19704 | 92.00 | 8894 | 139.00 | 131 | 195.00 | 194 |
| 52.00 | 865 | 93.00 | 13574 | 140.00 | 276 | 197.00 | 39 |
| 53.00 | 240 | 94.00 | 39712 | 141.00 | 3184 | 205.00 | 40 |
| 55.00 | 881 | 95.00 | 388672 | 142.00 | 496 | 207.00 | 1461 |
| 56.00 | 5308 | 96.00 | 23832 | 143.00 | 3143 | 208.00 | 169 |
| 57.00 | 9334 | 97.00 | 1034 | 144.00 | 277 | 209.00 | 76 |
| 58.00 | 354 | 98.00 | 107 | 145.00 | 246 | 210.00 | 70 |
| 59.00 | 204 | 103.00 | 255 | 146.00 | 611 | 223.00 | 62 |
| 60.00 | 2904 | 104.00 | 1491 | 147.00 | 179 | 236.00 | 34 |
| 61.00 | 14177 | 106.00 | 1635 | 148.00 | 847 | 239.00 | 35 |
| 62.00 | 13282 | 107.00 | 535 | 149.00 | 10 | 248.00 | 56 |
| 63.00 | 10466 | 109.00 | 132 | 150.00 | 247 | 251.00 | 45 |
| 64.00 | 894 | 110.00 | 85 | 151.00 | 60 | 255.00 | 101 |
| 65.00 | 101 | 111.00 | 303 | 152.00 | 270 | 267.00 | 82 |
| 67.00 | 1051 | 112.00 | 237 | 153.00 | 333 | 268.00 | 68 |
| 68.00 | 37112 | 113.00 | 302 | 154.00 | 383 | 281.00 | 426 |
| 69.00 | 36792 | 115.00 | 122 | 155.00 | 801 | 282.00 | 159 |
| 70.00 | 3219 | 116.00 | 1264 | 156.00 | 224 | 283.00 | 60 |
| 71.00 | 163 | 117.00 | 2060 | 157.00 | 739 | 284.00 | 59 |
| 72.00 | 1650 | 118.00 | 1339 | 158.00 | 185 | | |

Data File: /chem/5972hp73.i/DF090320A73_REG.b/9C20003-TUN173.d

Date: 20-MAR-2009 11:44

Client ID: BFB

Sample Info: 9C20003-TUN1:JAO

Volume Injected (uL): 2.0

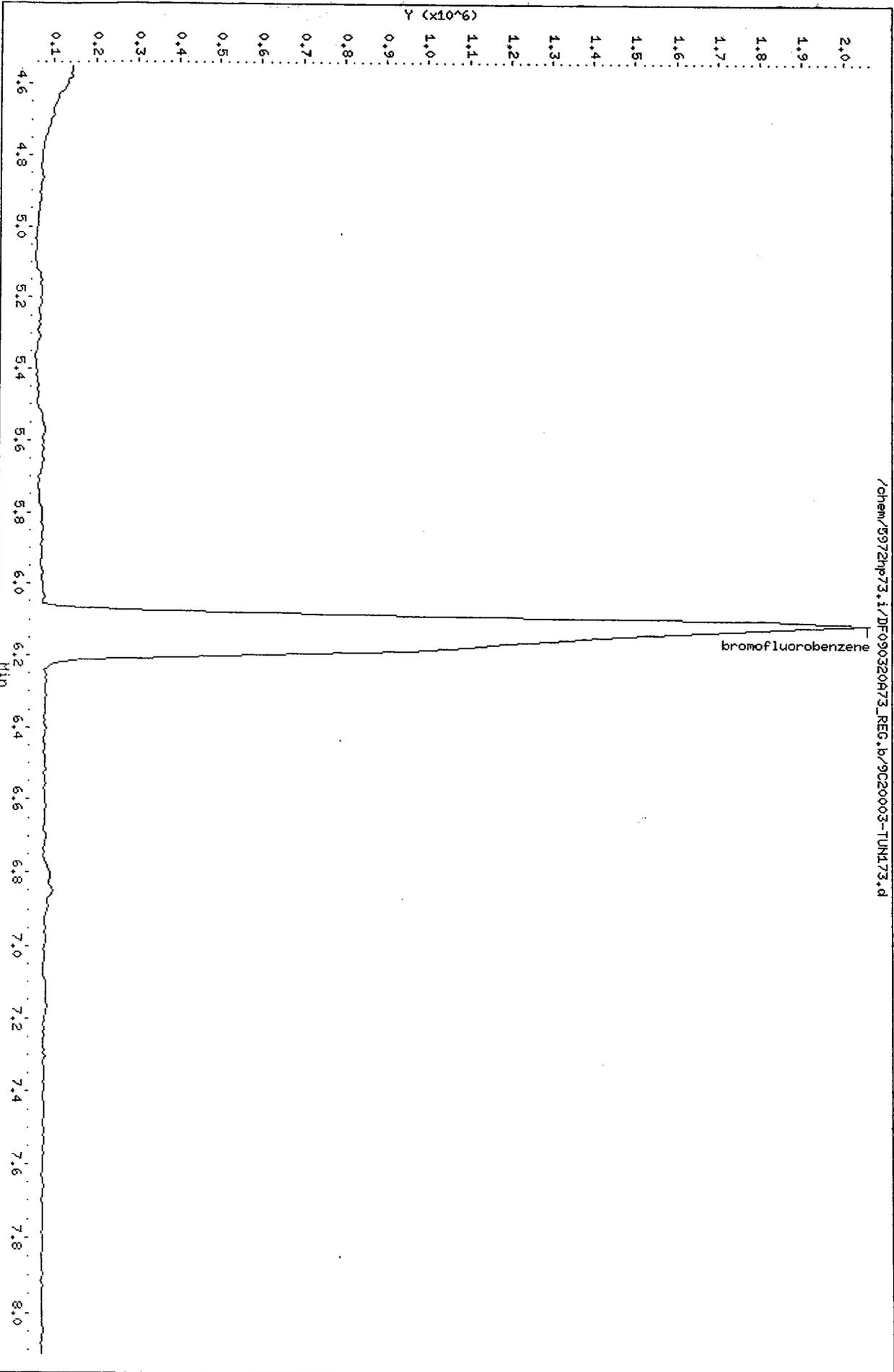
Column phase: SPB-624

Instrument: 5972hp73.i

Operator: JAO

Column diameter: 0.32

/chem/5972hp73.i/DF090320A73_REG.b/9C20003-TUN173.d



b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument.
Shall include:

- Tabulated Results (Form I VOA)
- Tentatively Identified Compounds (Form I VOA-TIC)
- Reconstructed Ion Chromatogram and quantitation report.
- Target compound spectra with lab-generated standard spectra.
- Quantitation/Calculation of TIC concentrations.
- GC/MS library search spectra for TICs.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKDD

Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031920-BLK1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031920-BLK173_D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 03/19/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 1.8 | J |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.12 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKDD

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BLK173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

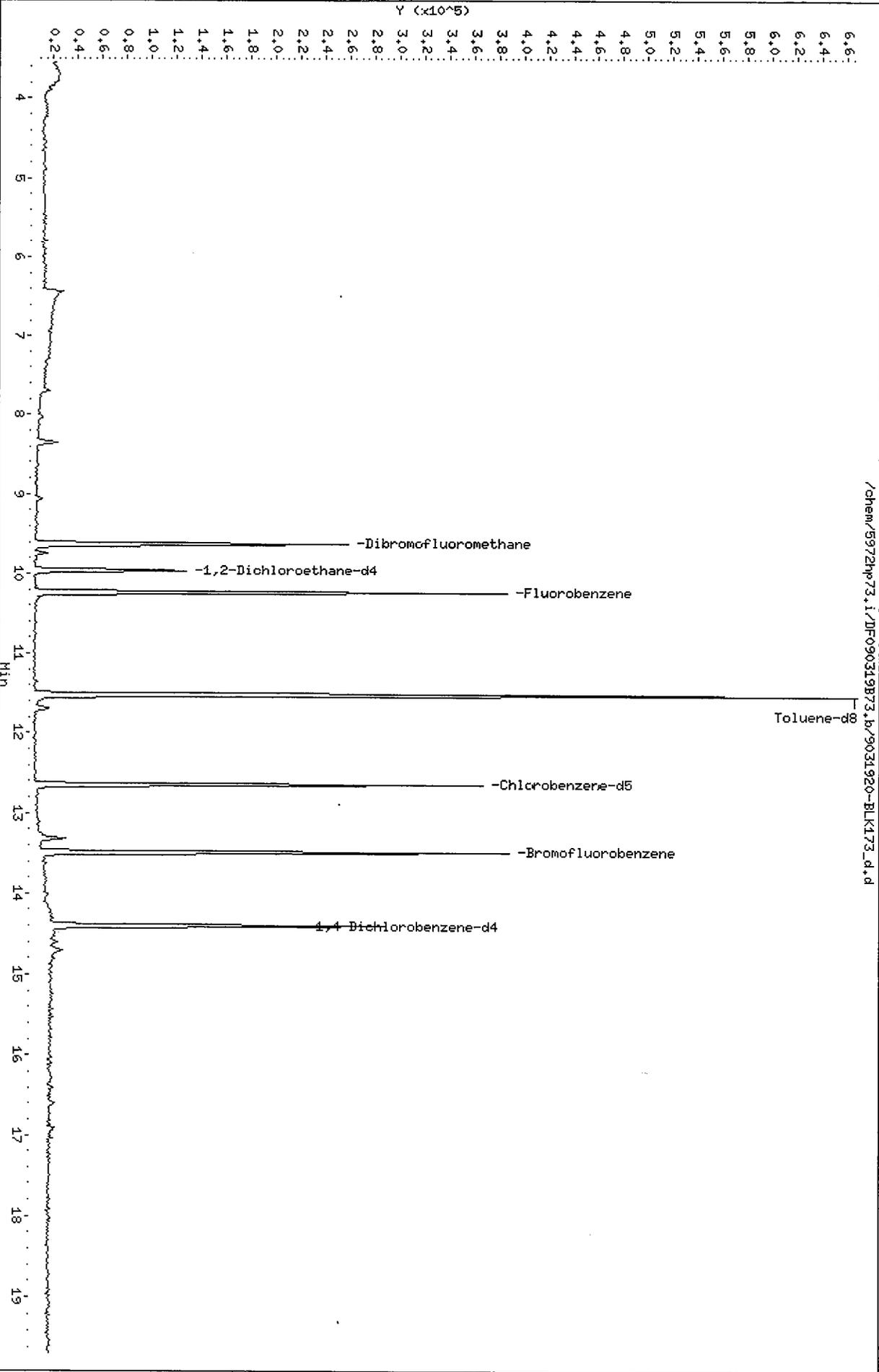
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 2.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.15 | J |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/9031920-BLK173_d.d
Date : 19-MAR-2009 22:30
Client ID: VBLKDD
Sample Info: 9031920-BLK1:TD
Purge Volume: 25.0
Column phase: SP8-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/9031920-BLK173 d.d
 Lab Smp Id: 9031920-BLK1 Client Smp ID: VBLKDD
 Inj Date : 19-MAR-2009 22:30
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 9031920-BLK1:TD
 Misc Info : VBLKDD
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 3 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-----------|------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | 10.249 | 10.253 | (1.000) | 332450 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.652 | 12.656 | (1.000) | 219395 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.411 | 14.397 | (1.000) | 96550 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.623 | 9.626 | (0.939) | 160218 | 150.400 | 6.0 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.971 | 9.957 | (0.973) | 88645 | 123.555 | 4.9 |
| \$ 6 Toluene-d8 | 98 | | 11.538 | 11.542 | (0.912) | 487480 | 131.405 | 5.3 |
| \$ 7 Bromofluorobenzene | 95 | | 13.488 | 13.492 | (0.936) | 141788 | 109.029 | 4.4 |
| 8 Dichlorodifluoromethane | 85 | | Compound Not Detected. | | | | | |
| 9 Chloromethane | 50 | | Compound Not Detected. | | | | | |
| 10 Vinyl Chloride | 62 | | Compound Not Detected. | | | | | |
| 11 Bromomethane | 94 | | Compound Not Detected. | | | | | |
| 12 Chloroethane | 64 | | Compound Not Detected. | | | | | |
| 13 Trichlorofluoromethane | 101 | | Compound Not Detected. | | | | | |
| 14 Acrolein | 56 | | Compound Not Detected. | | | | | |
| 17 1,1-Dichloroethene | 96 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-------|-----|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | | 7.063 | 7.067 | (0.689) | 5059 | 44.5786 | 1.8 (a) |
| 19 Iodomethane | 142 | | Compound Not Detected. | | | | | |
| 20 Carbon disulfide | 76 | | Compound Not Detected. | | | | | |
| 22 3-Chloropropene | 39 | | Compound Not Detected. | | | | | |
| 23 Acetonitrile | 41 | | Compound Not Detected. | | | | | |
| 25 Methylene Chloride | 84 | | 7.707 | 7.711 | (0.752) | 2951 | 2.94234 | 0.12 (a) |
| 26 Acrylonitrile | 53 | | Compound Not Detected. | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | | Compound Not Detected. | | | | | |
| 31 Vinyl acetate | 43 | | Compound Not Detected. | | | | | |
| 32 1,1-Dichloroethane | 63 | | Compound Not Detected. | | | | | |
| 33 Chloroprene | 53 | | Compound Not Detected. | | | | | |
| 34 2-butanone | 43 | | Compound Not Detected. | | | | | |
| 35 2,2-Dichloropropane | 77 | | Compound Not Detected. | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | | Compound Not Detected. | | | | | |
| 37 Propionitrile | 54 | | Compound Not Detected. | | | | | |
| 38 Methacrylonitrile | 41 | | Compound Not Detected. | | | | | |
| 39 Bromochloromethane | 128 | | Compound Not Detected. | | | | | |
| 40 Chloroform | 83 | | Compound Not Detected. | | | | | |
| 42 1,1,1-Trichloroethane | 97 | | Compound Not Detected. | | | | | |
| 44 1,1-dichloropropene | 75 | | Compound Not Detected. | | | | | |
| 45 Isobutyl alcohol | 43 | | Compound Not Detected. | | | | | |
| 46 Carbon Tetrachloride | 117 | | Compound Not Detected. | | | | | |
| 47 Benzene | 78 | | Compound Not Detected. | | | | | |
| 48 1,2-Dichloroethane | 62 | | Compound Not Detected. | | | | | |
| 49 Trichloroethene | 130 | | Compound Not Detected. | | | | | |
| 51 1,2-Dichloropropane | 63 | | Compound Not Detected. | | | | | |
| 52 Methylmethacrylate | 69 | | Compound Not Detected. | | | | | |
| 54 Dibromomethane | 174 | | Compound Not Detected. | | | | | |
| 55 Bromodichloromethane | 83 | | Compound Not Detected. | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | | Compound Not Detected. | | | | | |
| 58 4-Methyl-2-pentanone | 43 | | Compound Not Detected. | | | | | |
| 59 Toluene | 92 | | Compound Not Detected. | | | | | |
| 60 Ethylmethacrylate | 69 | | Compound Not Detected. | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | | Compound Not Detected. | | | | | |
| 62 1,1,2-Trichloroethane | 97 | | Compound Not Detected. | | | | | |
| 63 2-hexanone | 43 | | Compound Not Detected. | | | | | |
| 64 1,3-Dichloropropane | 76 | | Compound Not Detected. | | | | | |
| 65 Tetrachloroethene | 164 | | Compound Not Detected. | | | | | |
| 66 Dibromochloromethane | 129 | | Compound Not Detected. | | | | | |
| 69 Chlorobenzene | 112 | | Compound Not Detected. | | | | | |
| 70 Ethylbenzene | 106 | | Compound Not Detected. | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | | Compound Not Detected. | | | | | |
| 72 m,p-Xylene | 106 | | Compound Not Detected. | | | | | |
| 73 o-Xylene | 106 | | Compound Not Detected. | | | | | |
| 74 Styrene | 104 | | Compound Not Detected. | | | | | |
| 75 Bromoform | 173 | | Compound Not Detected. | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | | | | | | |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | 16.605 | 16.609 | (1.152) | 5002 | 3.82151 | 0.15 (a) |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DF090319B73.b/9031920-BLK173_d.d

Date : 19-MAR-2009 22:30

Client ID: VBLKDD

Instrument: 5972hp73.i

Sample Info: 9031920-BLK1:TD

Purge Volume: 25.0

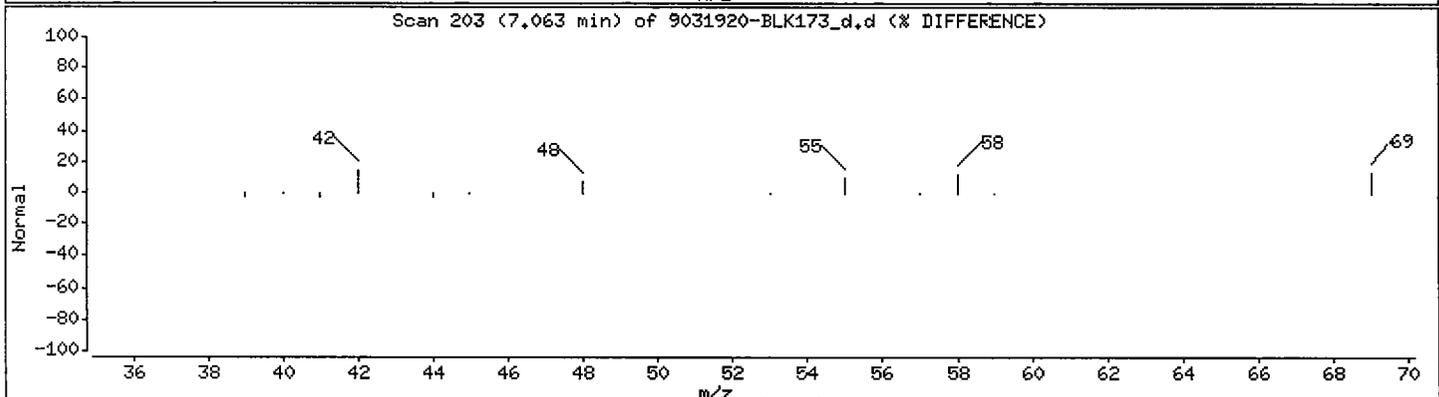
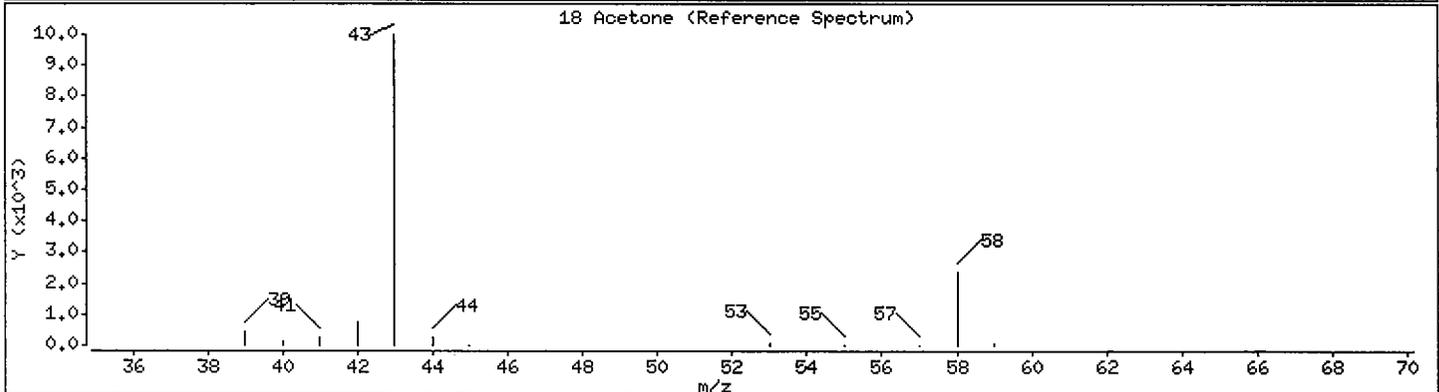
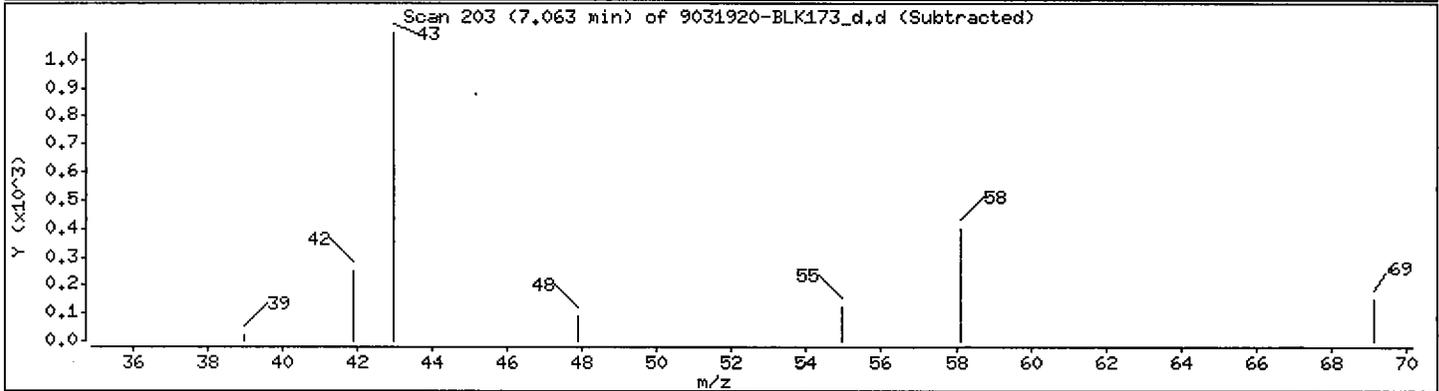
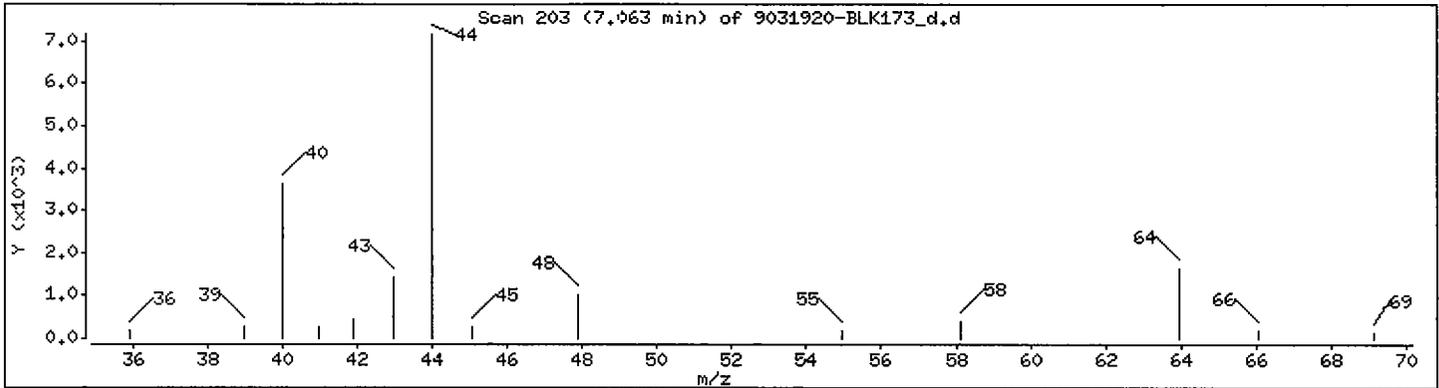
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 1.8 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/9031920-BLK173_d.d

Date : 19-MAR-2009 22:30

Client ID: VBLKDD

Instrument: 5972hp73.i

Sample Info: 9031920-BLK1:TD

Purge Volume: 25.0

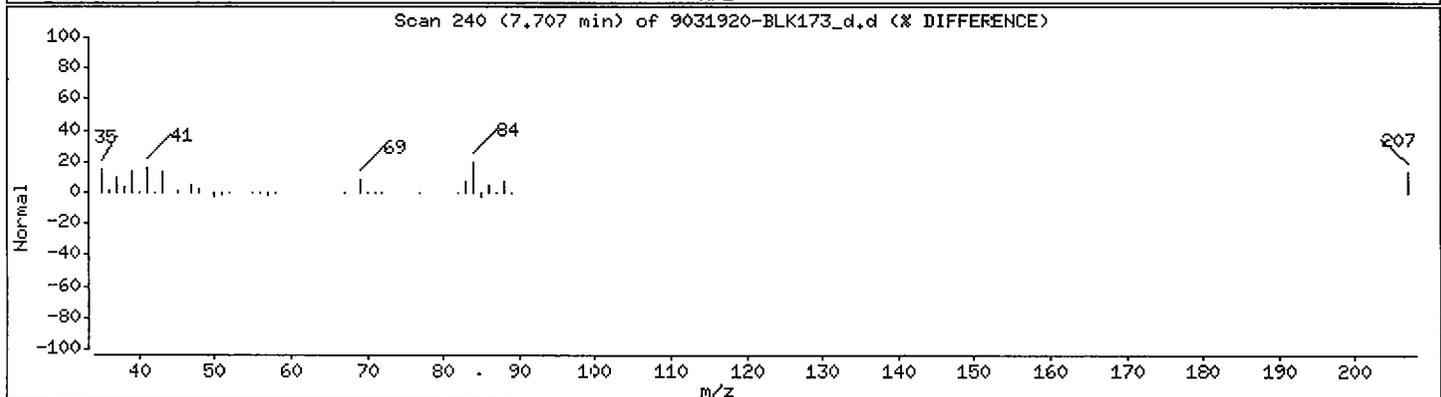
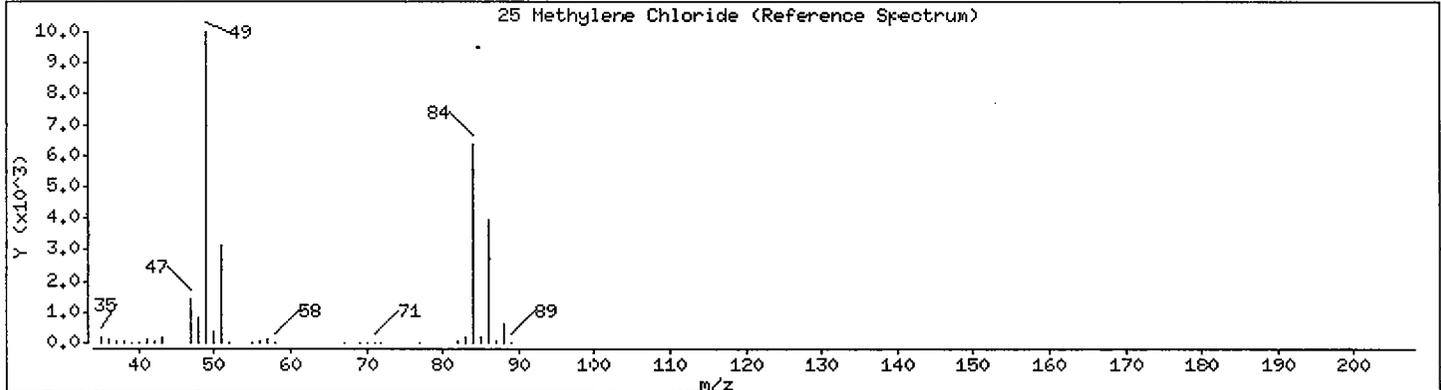
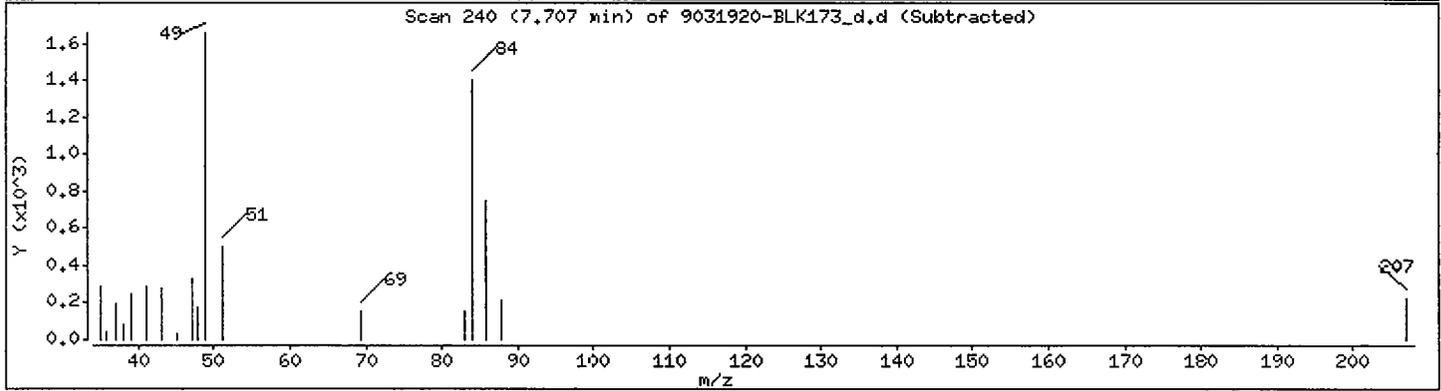
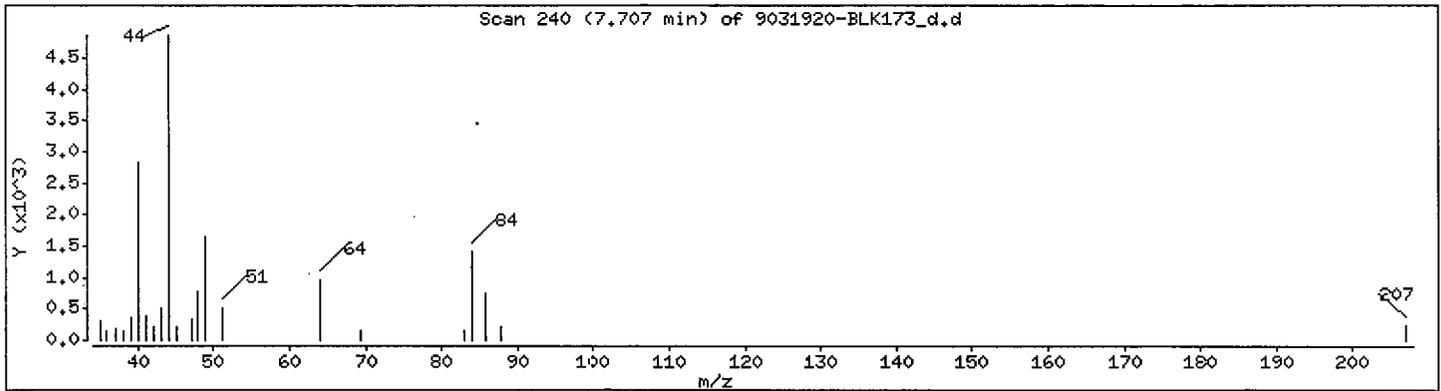
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.12 ug/L



Data File: /chem/5972hp73.i/DF090319B73.b/9031920-BLK173_d.d

Date: 19-MAR-2009 22:30

Client ID: VBLKDD

Instrument: 5972hp73.i

Sample Info: 9031920-BLK1:TD

Purge Volume: 25.0

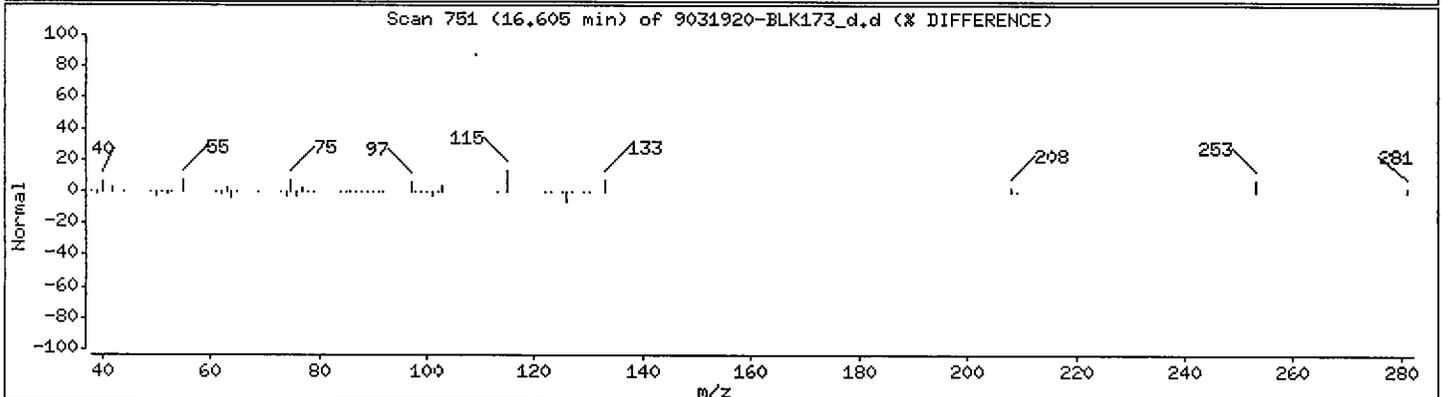
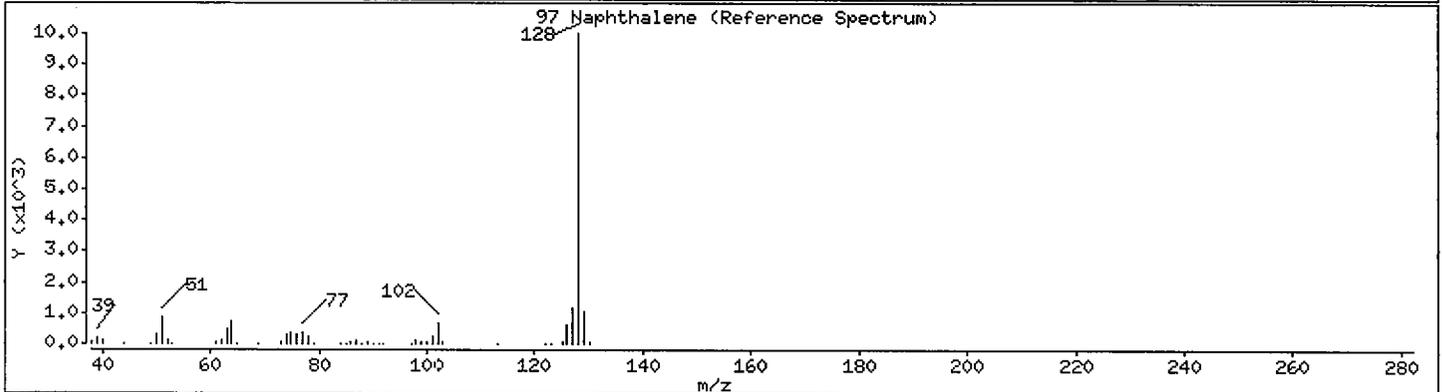
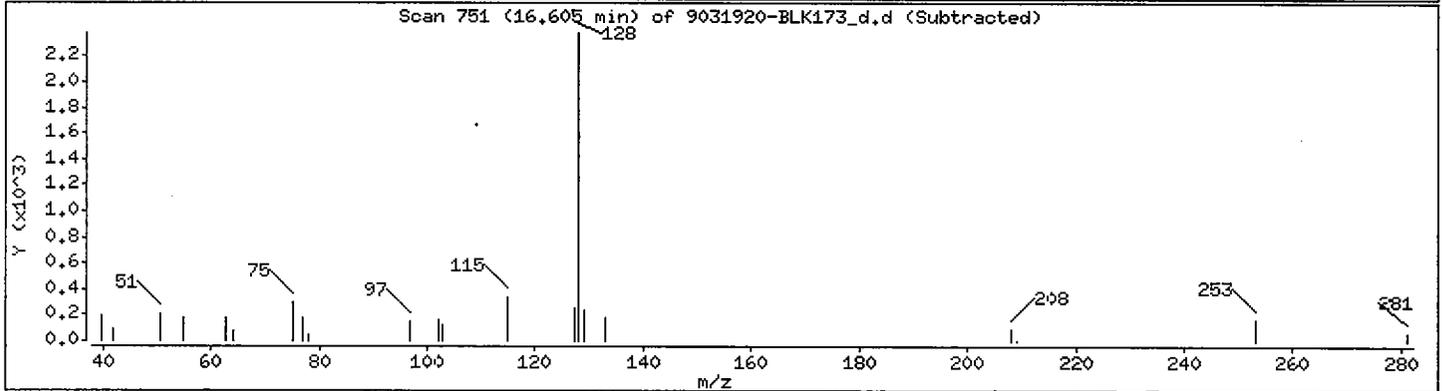
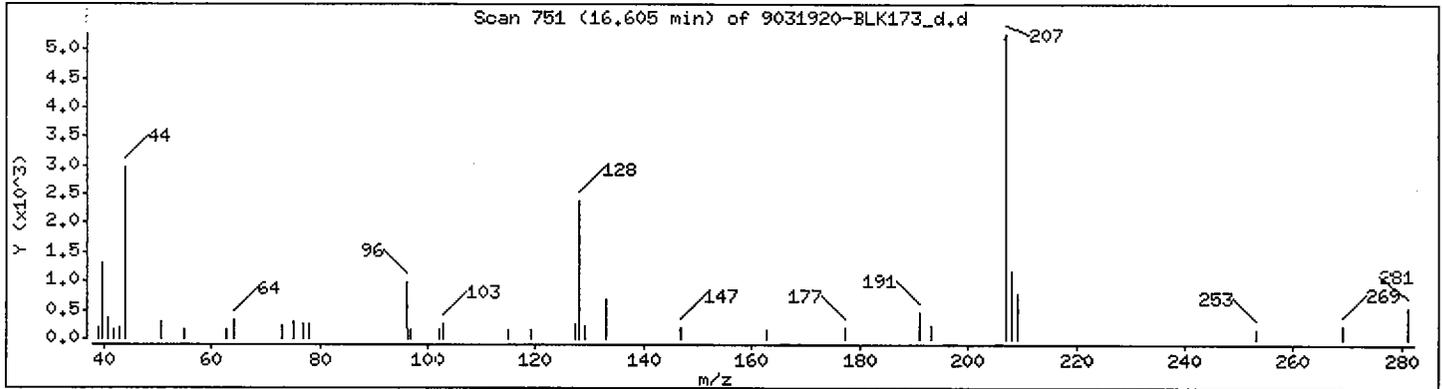
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

97 Naphthalene

Concentration: 0.15 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKHB

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BLK173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 1.7 | J |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.11 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKHB

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BLK173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

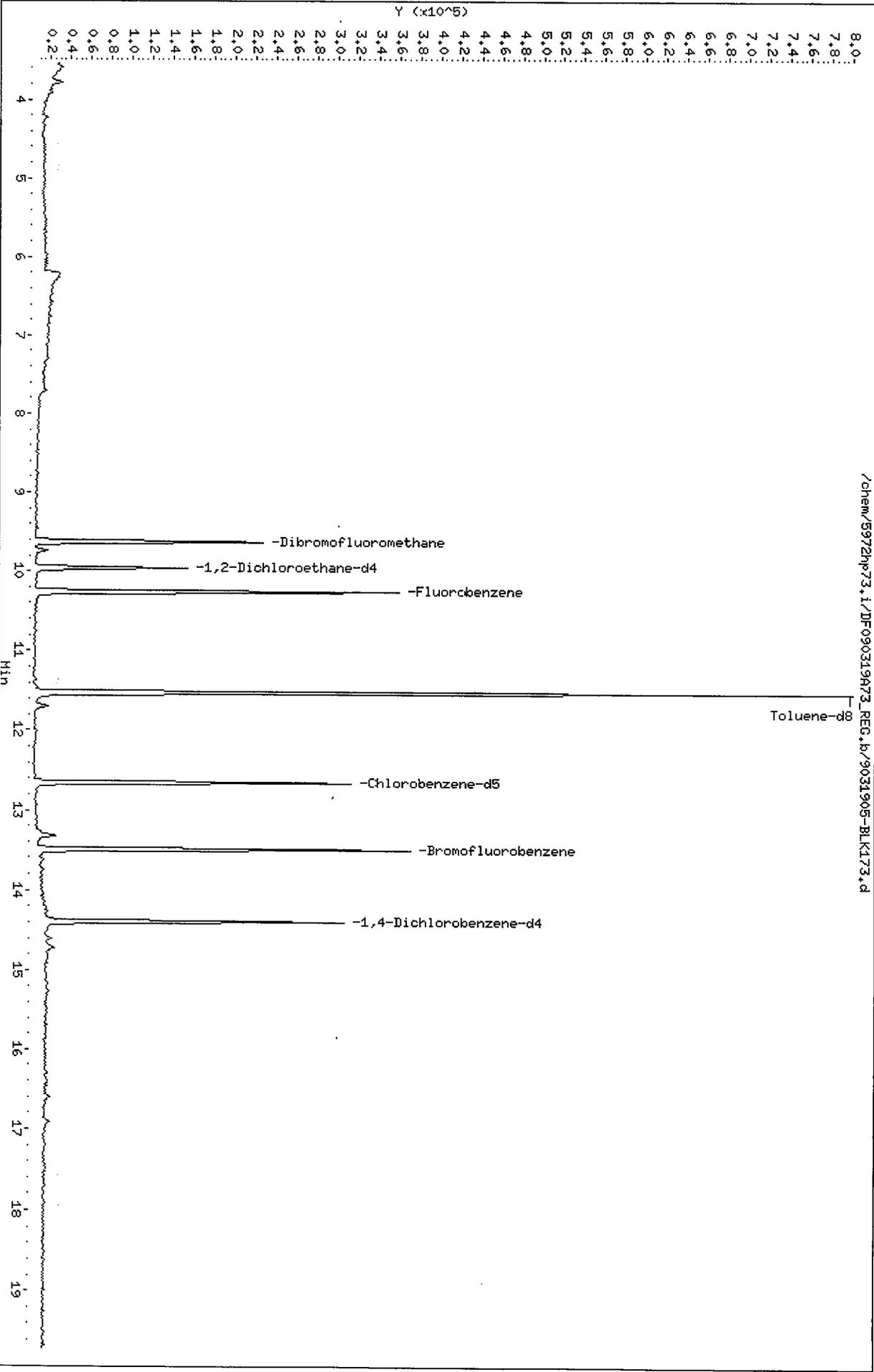
CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|------------|-----------------------------|------|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.15 | J |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319A73_REC.b/9031905-BLK173.d
 Date: 19-MAR-2009 10:55
 Client ID: WBLKHB
 Sample Info: 9031905-BLK1:JA0
 Purge Volume: 25.0
 Column Phase: SPB-624

Instrument: 5972hp73.i
 Operator: JA0
 Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319A73_REG.b/9031905-BLK173.d
 Lab Smp Id: 9031905-BLK1 Client Smp ID: VBLKHB
 Inj Date : 19-MAR-2009 10:55
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9031905-BLK1:JAO
 Misc Info : VBLKHB
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:15 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 3 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|--------|--------|---------|----------|--------------------|------------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.247 | 10.251 | (1.000) | 356089 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.668 | 12.654 | (1.000) | 229447 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.409 | 14.412 | (1.000) | 100571 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.638 | 9.624 | (0.941) | 157818 | 138.312 | 5.5 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.969 | 9.972 | (0.973) | 91987 | 119.702 | 4.8 |
| \$ 6 Toluene-d8 | 98 | | | 11.536 | 11.539 | (0.911) | 511803 | 131.918 | 5.3 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.503 | 13.489 | (0.937) | 147808 | 109.114 | 4.4 |
| 8 Dichlorodifluoromethane | 85 | | | | | | | | Compound Not Detected. |
| 9 Chloromethane | 50 | | | | | | | | Compound Not Detected. |
| 10 Vinyl Chloride | 62 | | | | | | | | Compound Not Detected. |
| 11 Bromomethane | 94 | | | | | | | | Compound Not Detected. |
| 12 Chloroethane | 64 | | | | | | | | Compound Not Detected. |
| 13 Trichlorofluoromethane | 101 | | | | | | | | Compound Not Detected. |
| 14 Acrolein | 56 | | | | | | | | Compound Not Detected. |
| 17 1,1-Dichloroethene | 96 | | | | | | | | Compound Not Detected. |

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 A
 3/18/09

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | | | |
|------------------------------|-----------|--|------------------------|--------|---------|----------|--------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) | |
| 18 Acetone | 43 | | 7.078 | 7.064 | (0.691) | 5064 | 41.6604 | 1.7 (a) | |
| 19 Iodomethane | 142 | | Compound Not Detected. | | | | | | |
| 20 Carbon disulfide | 76 | | Compound Not Detected. | | | | | | |
| 22 3-Chloropropene | 39 | | Compound Not Detected. | | | | | | |
| 23 Acetonitrile | 41 | | Compound Not Detected. | | | | | | |
| 25 Methylene Chloride | 84 | | 7.705 | 7.708 | (0.752) | 3012 | 2.80380 | 0.11 (a) | |
| 26 Acrylonitrile | 53 | | Compound Not Detected. | | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | | Compound Not Detected. | | | | | | |
| 31 Vinyl acetate | 43 | | Compound Not Detected. | | | | | | |
| 32 1,1-Dichloroethane | 63 | | Compound Not Detected. | | | | | | |
| 33 Chloroprene | 53 | | Compound Not Detected. | | | | | | |
| 34 2-butanone | 43 | | Compound Not Detected. | | | | | | |
| 35 2,2-Dichloropropane | 77 | | Compound Not Detected. | | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | | Compound Not Detected. | | | | | | |
| 37 Propionitrile | 54 | | Compound Not Detected. | | | | | | |
| 38 Methacrylonitrile | 41 | | Compound Not Detected. | | | | | | |
| 39 Bromochloromethane | 128 | | Compound Not Detected. | | | | | | |
| 40 Chloroform | 83 | | Compound Not Detected. | | | | | | |
| 42 1,1,1-Trichloroethane | 97 | | Compound Not Detected. | | | | | | |
| 44 1,1-dichloropropene | 75 | | Compound Not Detected. | | | | | | |
| 45 Isobutyl alcohol | 43 | | Compound Not Detected. | | | | | | |
| 46 Carbon Tetrachloride | 117 | | Compound Not Detected. | | | | | | |
| 47 Benzene | 78 | | Compound Not Detected. | | | | | | |
| 48 1,2-Dichloroethane | 62 | | Compound Not Detected. | | | | | | |
| 49 Trichloroethene | 130 | | Compound Not Detected. | | | | | | |
| 51 1,2-Dichloropropane | 63 | | Compound Not Detected. | | | | | | |
| 52 Methylmethacrylate | 69 | | Compound Not Detected. | | | | | | |
| 54 Dibromomethane | 174 | | Compound Not Detected. | | | | | | |
| 55 Bromodichloromethane | 83 | | Compound Not Detected. | | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | | Compound Not Detected. | | | | | | |
| 58 4-Methyl-2-pentanone | 43 | | Compound Not Detected. | | | | | | |
| 59 Toluene | 92 | | Compound Not Detected. | | | | | | |
| 60 Ethylmethacrylate | 69 | | Compound Not Detected. | | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | | Compound Not Detected. | | | | | | |
| 62 1,1,2-Trichloroethane | 97 | | Compound Not Detected. | | | | | | |
| 63 2-hexanone | 43 | | Compound Not Detected. | | | | | | |
| 64 1,3-Dichloropropane | 76 | | Compound Not Detected. | | | | | | |
| 65 Tetrachloroethene | 164 | | Compound Not Detected. | | | | | | |
| 66 Dibromochloromethane | 129 | | Compound Not Detected. | | | | | | |
| 69 Chlorobenzene | 112 | | Compound Not Detected. | | | | | | |
| 70 Ethylbenzene | 106 | | Compound Not Detected. | | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | | Compound Not Detected. | | | | | | |
| 72 m,p-Xylene | 106 | | Compound Not Detected. | | | | | | |
| 73 o-Xylene | 106 | | Compound Not Detected. | | | | | | |
| 74 Styrene | 104 | | Compound Not Detected. | | | | | | |
| 75 Bromoform | 173 | | Compound Not Detected. | | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | | Compound Not Detected. | | | | | | |

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-------------------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | | | | | | |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | 16.603 | 16.606 | (1.152) | 5149 | 3.77653 | 0.15 (a) |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DF090319A73_REG,b/9031905-BLK173.d

Date : 19-MAR-2009 10:55

Client ID: VBLKHB

Instrument: 5972hp73.i

Sample Info: 9031905-BLK1:JAO

Purge Volume: 25.0

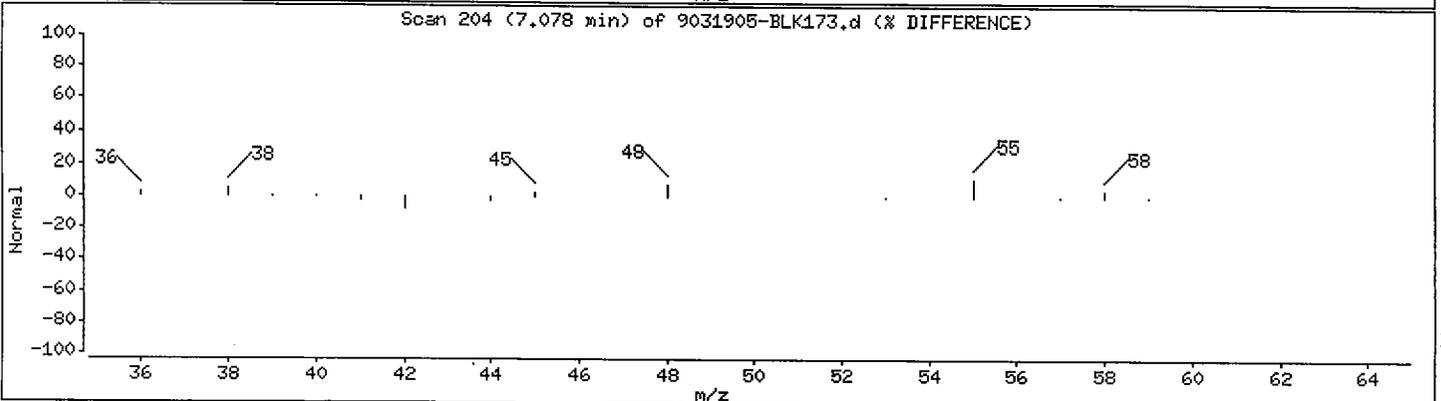
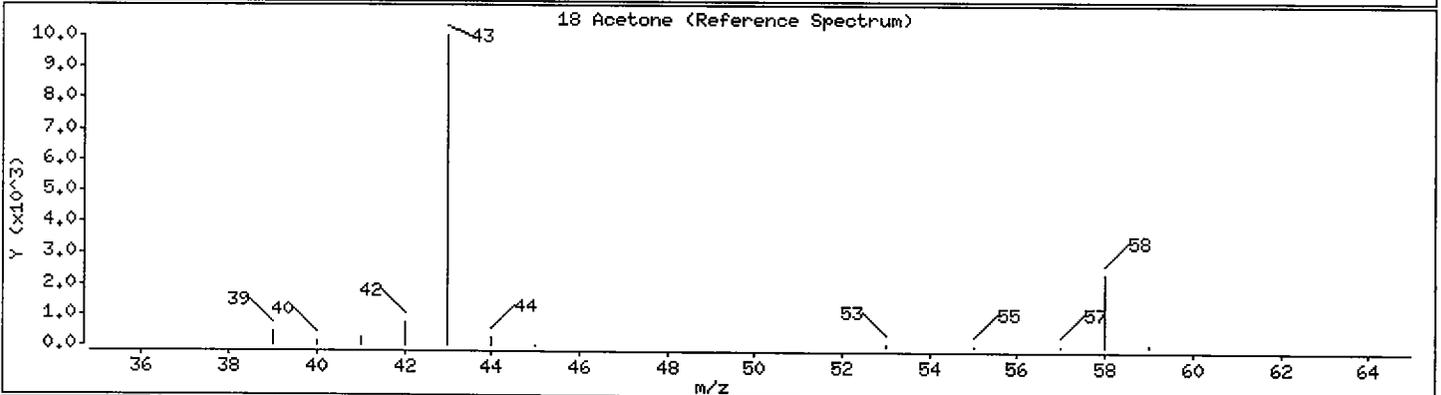
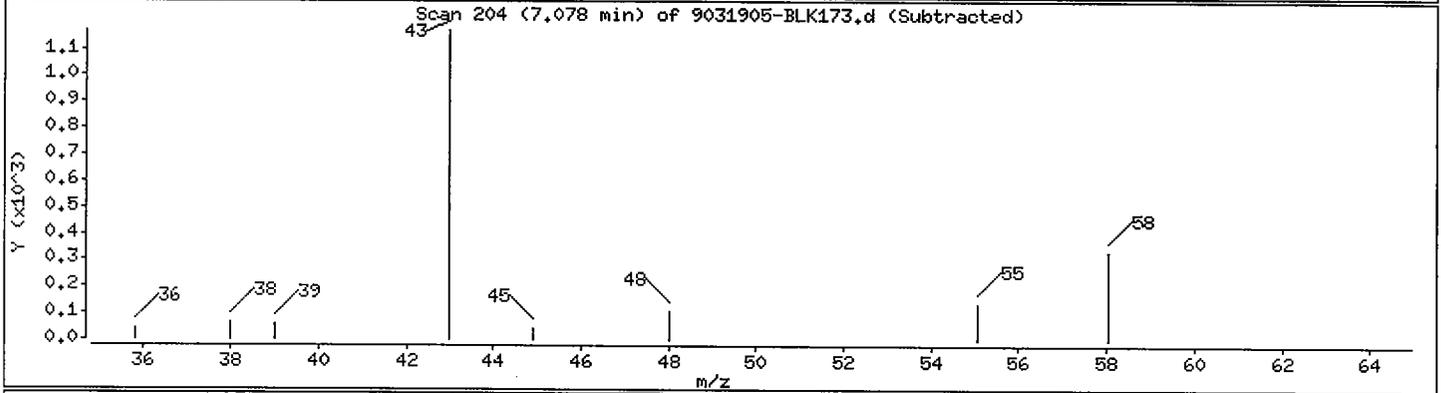
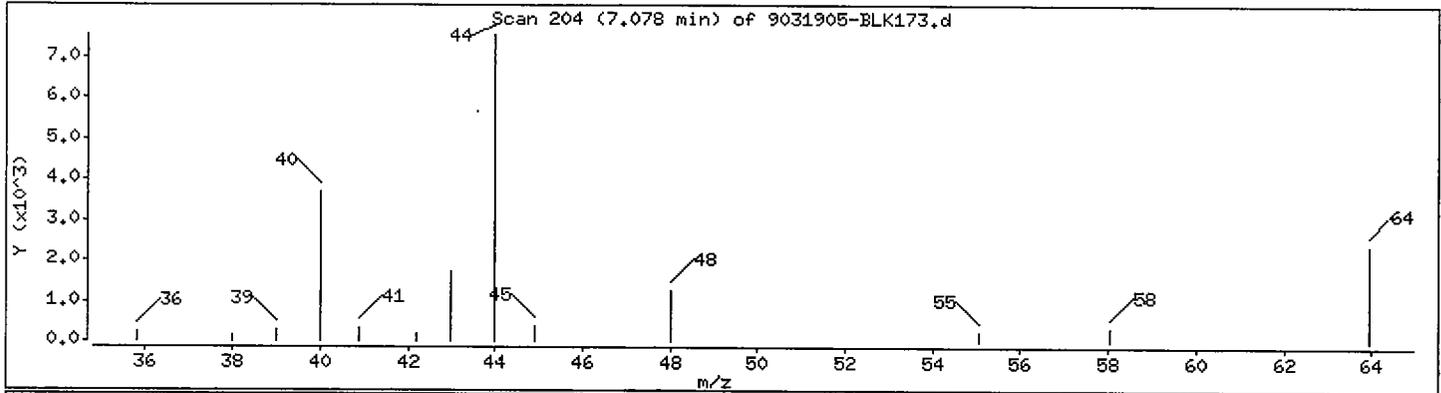
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 1.7 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG,b/9031905-BLK173.d

Date : 19-MAR-2009 10:55

Client ID: VBLKHB

Instrument: 5972hp73.i

Sample Info: 9031905-BLK1;JAO

Purge Volume: 25.0

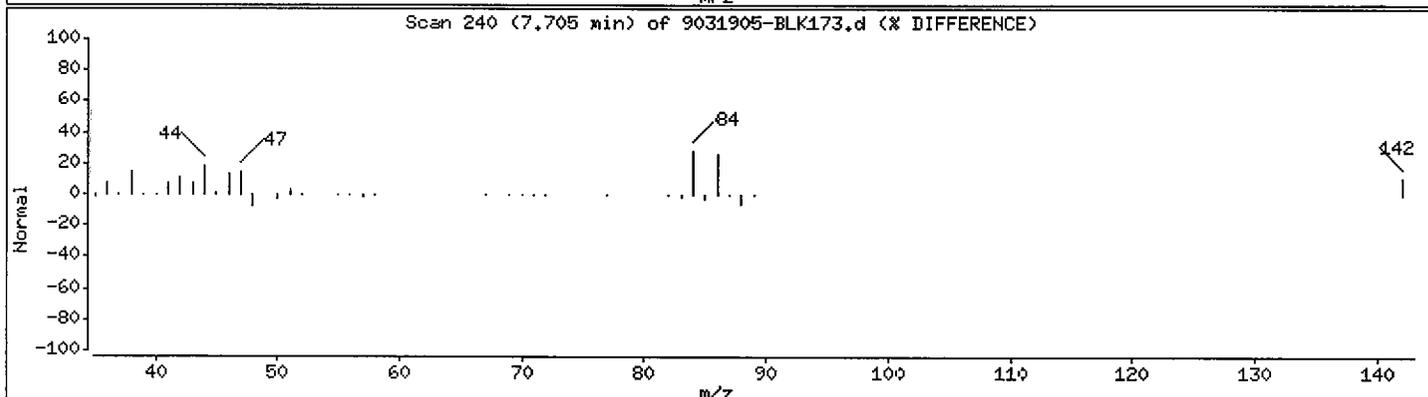
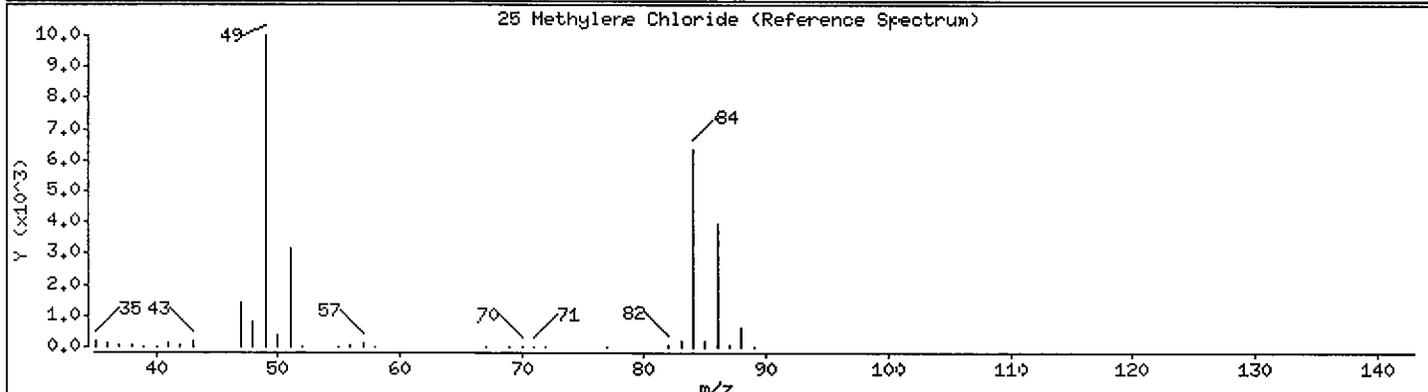
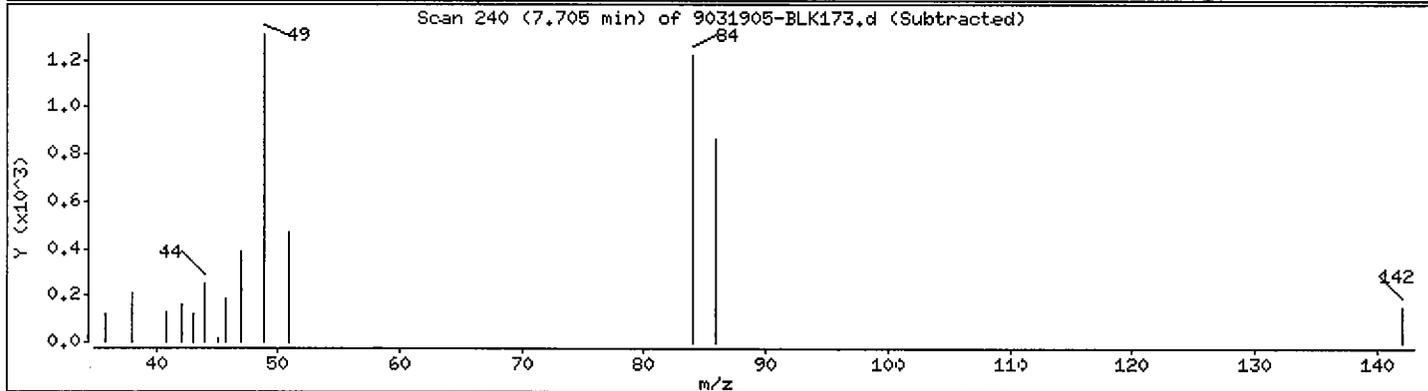
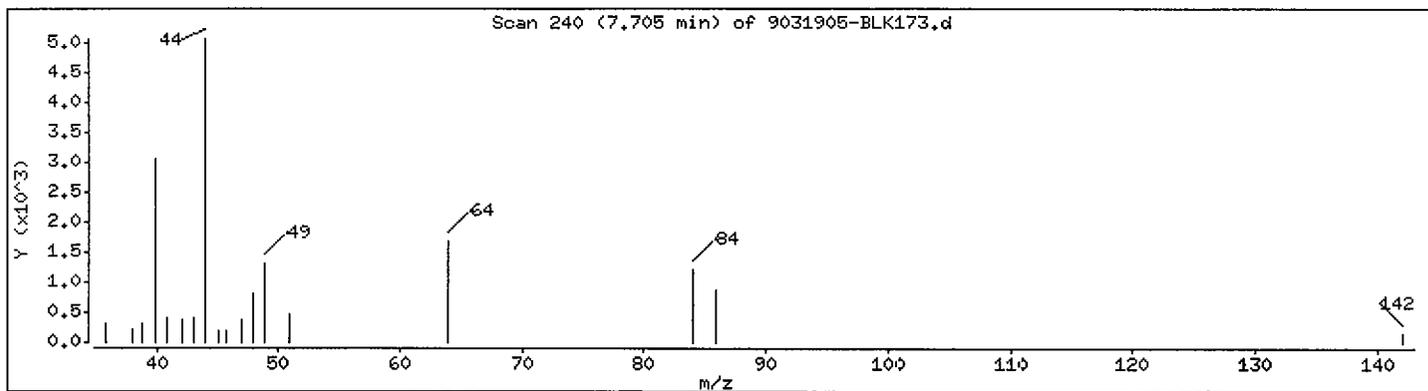
Operator: JAO

Column phase: SPB-624

Column diameter: 0,32

25 Methylene Chloride

Concentration: 0,11 ug/L



Data File: /chem/5972hp73.i/DF090319A73_REG.b/9031905-BLK173.d

Date : 19-MAR-2009 10:55

Client ID: VBLKHB

Instrument: 5972hp73.i

Sample Info: 9031905-BLK1:JAO

Purge Volume: 25.0

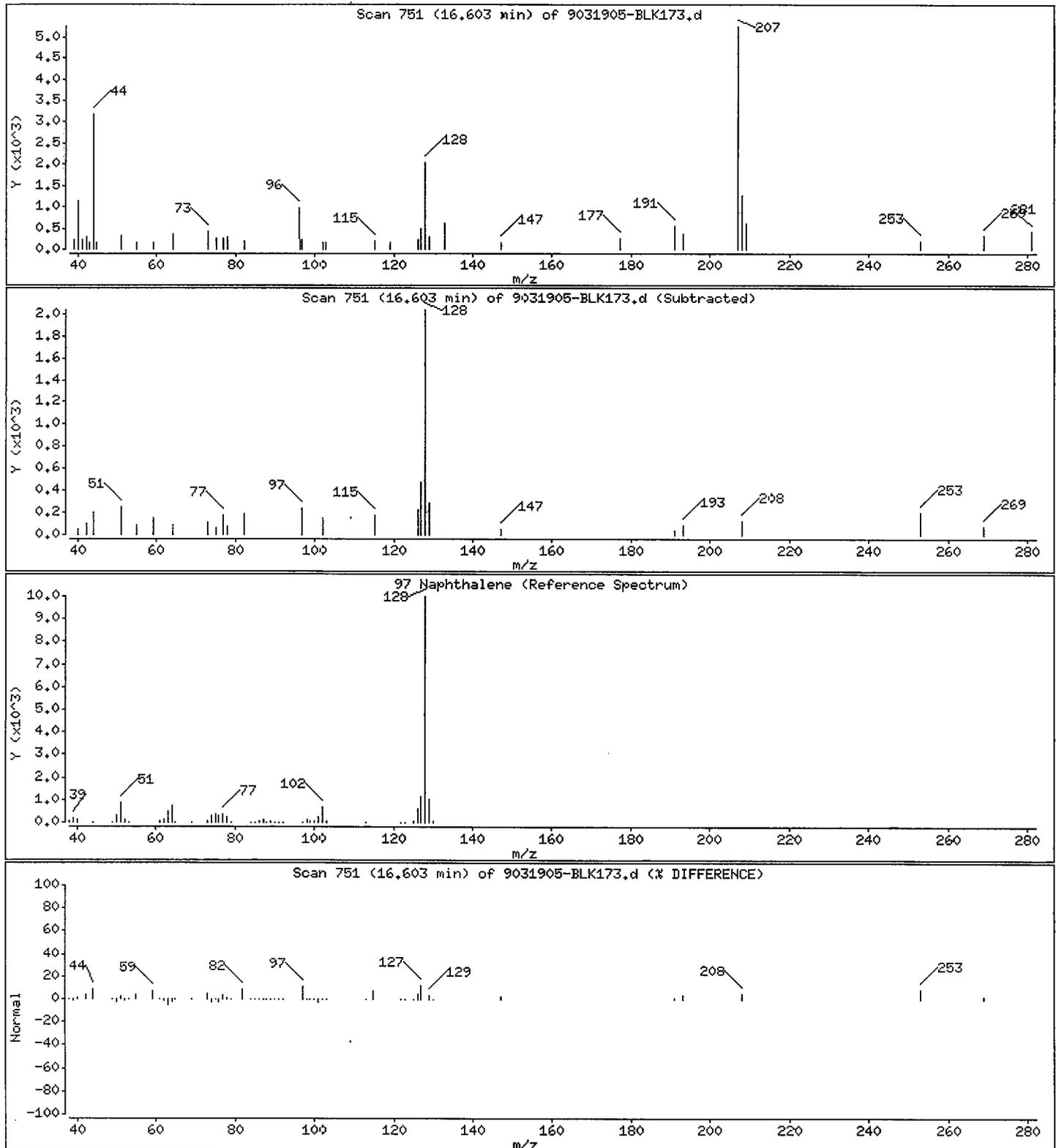
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

97 Naphthalene

Concentration: 0.15 ug/L



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKHE

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BLK1R73_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 107-02-8 | Acrolein | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 74-88-4 | Iodomethane | 0.50 | U |
| 75-15-0 | Carbon disulfide | 0.50 | U |
| 67-64-1 | Acetone | 1.8 | J |
| 107-05-1 | 3-Chloropropene | 0.50 | U |
| 75-05-8 | Acetonitrile | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.14 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 108-05-4 | Vinyl acetate | 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-butanone | 2.5 | U |
| 107-12-0 | Propionitrile | 25 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 126-98-7 | Methacrylonitrile | 5.0 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 563-58-6 | 1,1-dichloropropene | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 78-83-1 | Isobutyl alcohol | 25 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKHE

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BLK1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BLK1R73_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

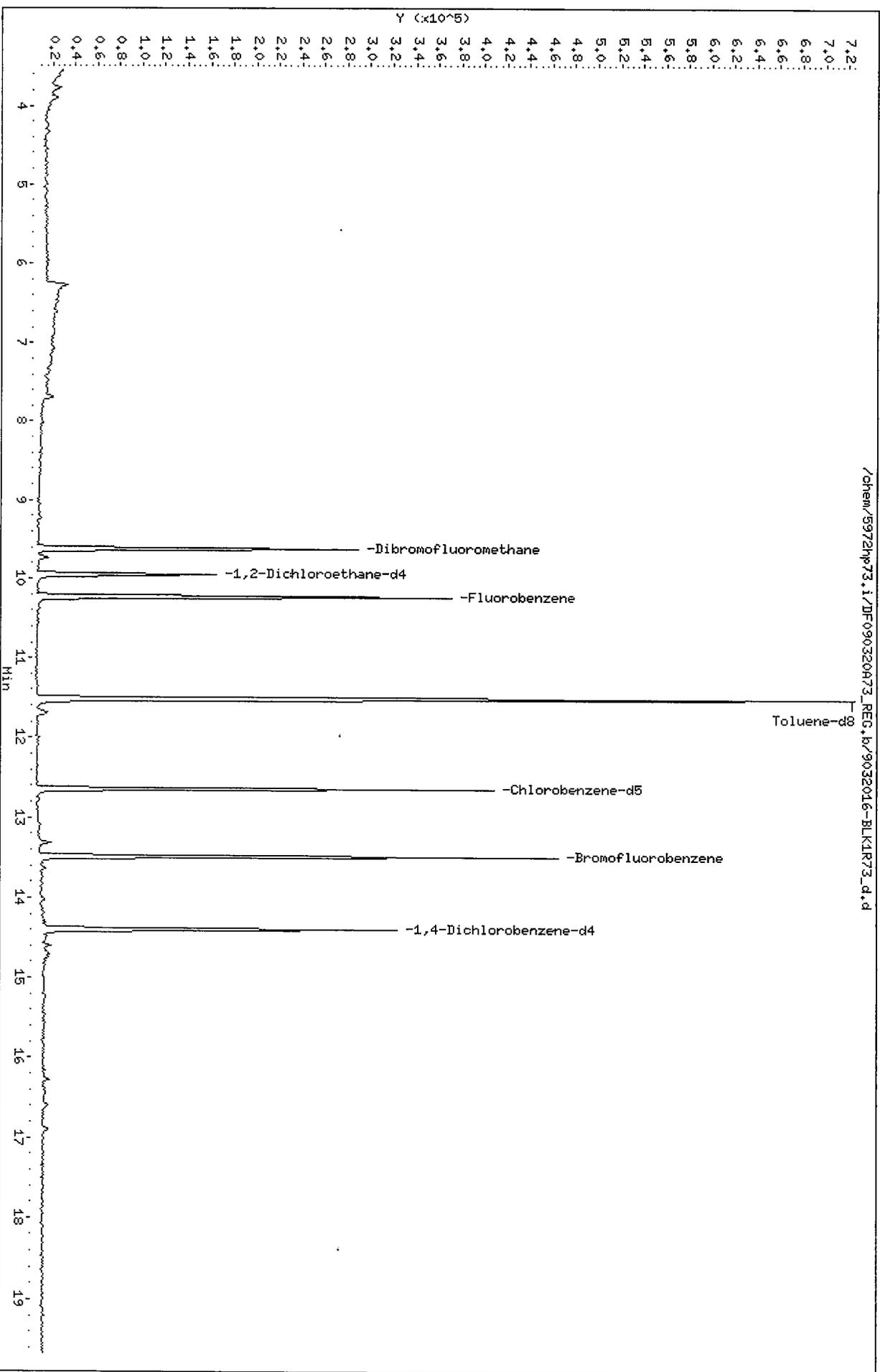
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 0.50 | U |
| 80-62-6 | Methylmethacrylate | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 2.5 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 97-63-2 | Ethylmethacrylate | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.50 | U |
| 591-78-6 | 2-hexanone | 2.5 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 108-38-3 | m,p-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 110-57-6 | trans-1,4-dichloro-2-butene | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-68-3 | Hexachlorobutadiene | 0.50 | U |
| 91-20-3 | Naphthalene | 0.22 | J |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 126-99-8 | Chloroprene | 0.50 | U |

FORM I VOA

Data File: /chem/5972hp73.i/DF090320473_REG.b/9032016-BLK1R73.d.d
Date: 20-HAR-2009 16:39
Client ID: VBLKHE
Sample Info: 9032016-BLK1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090320A73_REG.b/9032016-BLK1R73_d.d
 Lab Smp Id: 9032016-BLK1 Client Smp ID: VBLKHE
 Inj Date : 20-MAR-2009 16:39
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9032016-BLK1:JAO
 Misc Info : VBLKHE
 Comment :
 Method : /chem/5972hp73.i/DF090320A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 23-Mar-2009 13:19 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 14:12 Cal File: 9C20003-CAL573.d
 Als bottle: 4 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|--------|--------|---------|------------------------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.248 | 10.248 | (1.000) | 349884 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.651 | 12.651 | (1.000) | 218297 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.392 | 14.393 | (1.000) | 93053 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.622 | 9.622 | (0.939) | 170739 | 134.460 | 5.4 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.952 | 9.952 | (0.971) | 104906 | 132.029 | 5.3 |
| \$ 6 Toluene-d8 | 98 | | | 11.519 | 11.520 | (0.911) | 529716 | 144.439 | 5.8 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.487 | 13.487 | (0.937) | 154151 | 139.428 | 5.6 |
| 8 Dichlorodifluoromethane | 85 | | | | | | Compound Not Detected. | | |
| 9 Chloromethane | 50 | | | | | | Compound Not Detected. | | |
| 10 Vinyl Chloride | 62 | | | | | | Compound Not Detected. | | |
| 11 Bromomethane | 94 | | | | | | Compound Not Detected. | | |
| 12 Chloroethane | 64 | | | | | | Compound Not Detected. | | |
| 13 Trichlorofluoromethane | 101 | | | | | | Compound Not Detected. | | |
| 14 Acrolein | 56 | | | | | | Compound Not Detected. | | |
| 17 1,1-Dichloroethene | 96 | | | | | | Compound Not Detected. | | |

Handwritten signature and date: 3/23/09

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------------|-------------------|-------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.062 | 7.062 | (0.689) | 5441 | 44.7678 | 1.8 (a) |
| 19 Iodomethane | 142 | | | | | | |
| 20 Carbon disulfide | 76 | | | | | | |
| 22 3-Chloropropene | 39 | | | | | | |
| 23 Acetonitrile | 41 | | | | | | |
| 25 Methylene Chloride | 84 | 7.706 | 7.689 | (0.752) | 4505 | 3.57025 | 0.14 (a) |
| 26 Acrylonitrile | 53 | | | | | | |
| 28 trans-1,2-Dichloroethene | 96 | | | | | | |
| 31 Vinyl acetate | 43 | | | | | | |
| 32 1,1-Dichloroethane | 63 | | | | | | |
| 33 Chloroprene | 53 | | | | | | |
| 34 2-butanone | 43 | | | | | | |
| 35 2,2-Dichloropropane | 77 | | | | | | |
| 36 cis-1,2-Dichloroethene | 96 | | | | | | |
| 37 Propionitrile | 54 | | | | | | |
| 38 Methacrylonitrile | 41 | | | | | | |
| 39 Bromochloromethane | 128 | | | | | | |
| 40 Chloroform | 83 | | | | | | |
| 42 1,1,1-Trichloroethane | 97 | | | | | | |
| 44 1,1-dichloropropene | 75 | | | | | | |
| 45 Isobutyl alcohol | 43 | | | | | | |
| 46 Carbon Tetrachloride | 117 | | | | | | |
| 47 Benzene | 78 | | | | | | |
| 48 1,2-Dichloroethane | 62 | | | | | | |
| 49 Trichloroethene | 130 | | | | | | |
| 51 1,2-Dichloropropane | 63 | | | | | | |
| 52 Methylmethacrylate | 69 | | | | | | |
| 54 Dibromomethane | 174 | | | | | | |
| 55 Bromodichloromethane | 83 | | | | | | |
| 57 cis-1,3-Dichloropropene | 75 | | | | | | |
| 58 4-Methyl-2-pentanone | 43 | | | | | | |
| 59 Toluene | 92 | | | | | | |
| 60 Ethylmethacrylate | 69 | | | | | | |
| 61 trans-1,3-Dichloropropene | 75 | | | | | | |
| 62 1,1,2-Trichloroethane | 97 | | | | | | |
| 63 2-hexanone | 43 | | | | | | |
| 64 1,3-Dichloropropane | 76 | | | | | | |
| 65 Tetrachloroethene | 164 | | | | | | |
| 66 Dibromochloromethane | 129 | | | | | | |
| 69 Chlorobenzene | 112 | | | | | | |
| 70 Ethylbenzene | 106 | | | | | | |
| 71 1,1,1,2-Tetrachloroethane | 131 | | | | | | |
| 72 m,p-Xylene | 106 | | | | | | |
| 73 o-Xylene | 106 | | | | | | |
| 74 Styrene | 104 | | | | | | |
| 75 Bromoform | 173 | | | | | | |
| 77 1,1,2,2-Tetrachloroethane | 83 | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|--------------------------------|-----------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 79 1,2,3-Trichloropropane | 110 | | | | | | |
| 78 trans-1,4-dichloro-2-butene | 53 | | | | | | |
| 90 1,3-Dichlorobenzene | 146 | | | | | | |
| 91 1,4-Dichlorobenzene | 146 | | | | | | |
| 93 1,2-Dichlorobenzene | 146 | | | | | | |
| 95 1,2,4-Trichlorobenzene | 180 | | | | | | |
| 96 Hexachlorobutadiene | 225 | | | | | | |
| 97 Naphthalene | 128 | 16.604 | 16.586 | (1.154) | 5776 | 5.50121 | 0.22 (a) |
| M 100 Xylene (total) | 106 | | | | | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DF090320A73_REG,b/9032016-BLK1R73_d.d

Date : 20-MAR-2009 16:39

Client ID: VBLKHE

Instrument: 5972hp73.i

Sample Info: 9032016-BLK1:JAO

Purge Volume: 25.0

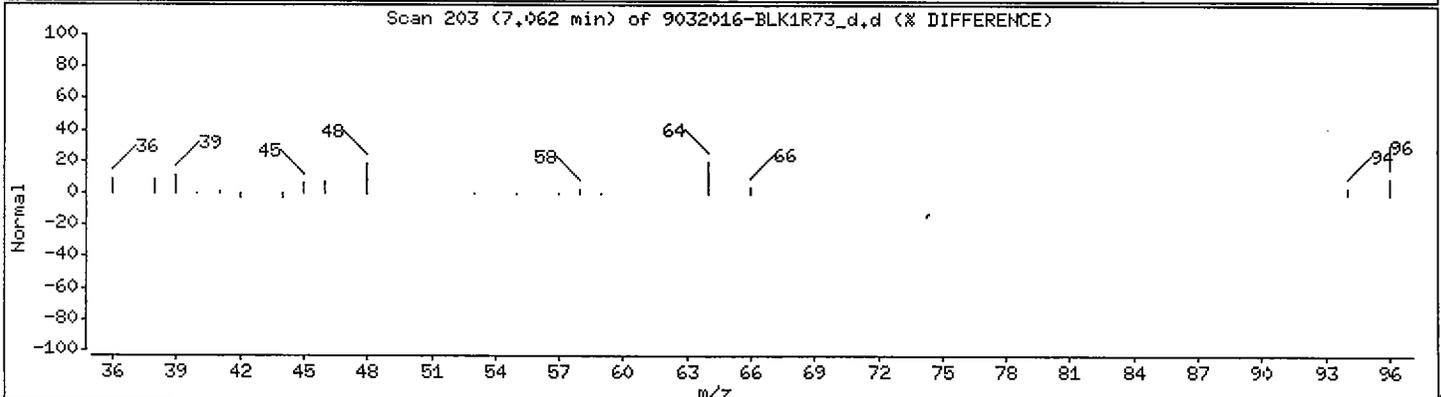
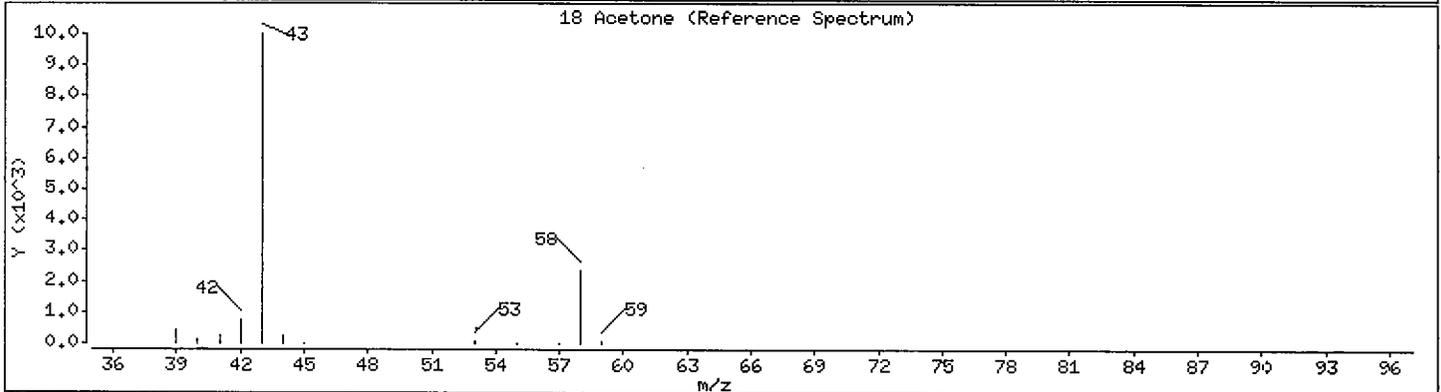
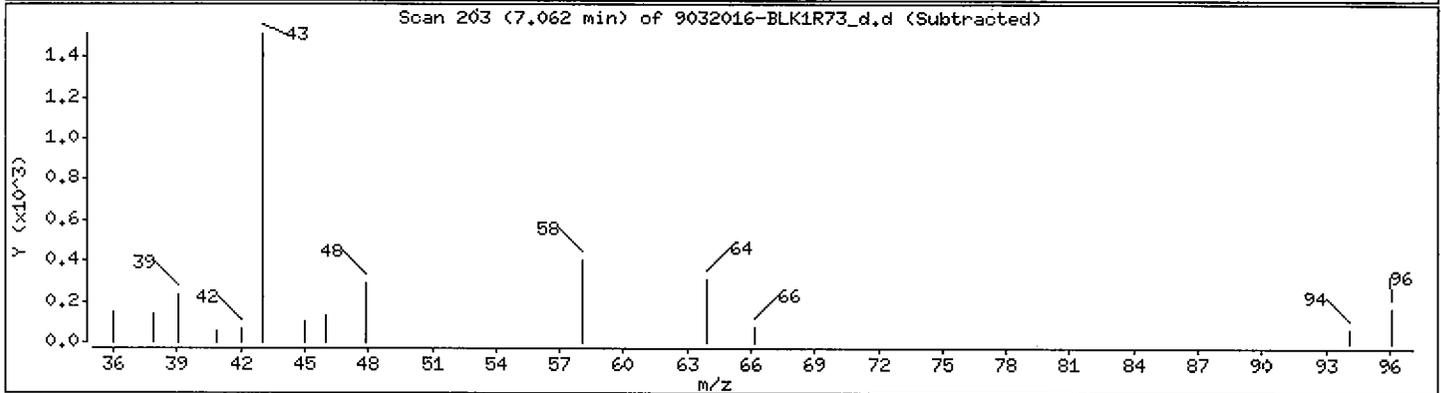
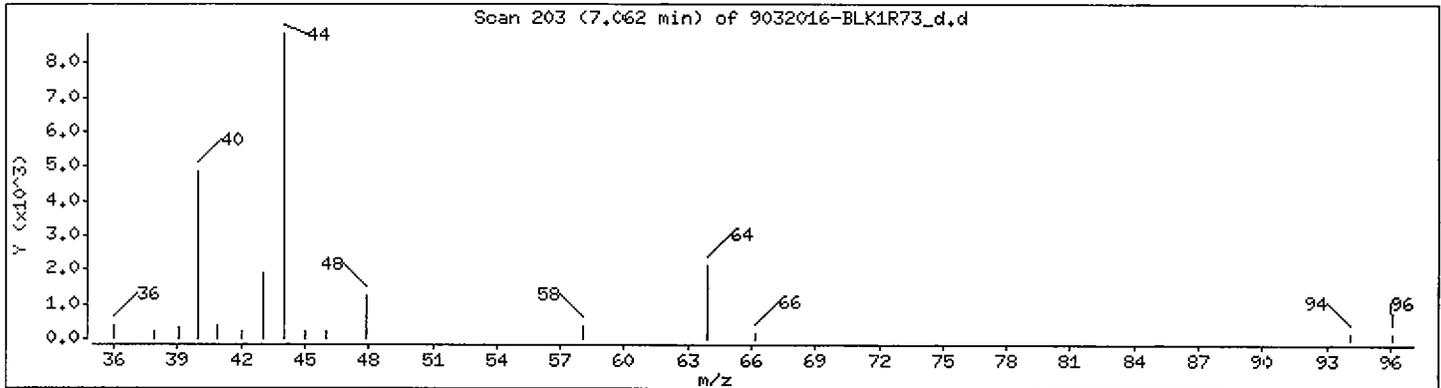
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

18 Acetone

Concentration: 1.8 ug/L



Data File: /chem/5972hp73.i/DF090320A73_REG,b/9032016-BLK1R73_d,d

Date : 20-MAR-2009 16:39

Client ID: VBLKHE

Instrument: 5972hp73.i

Sample Info: 9032016-BLK1:JAO

Purge Volume: 25.0

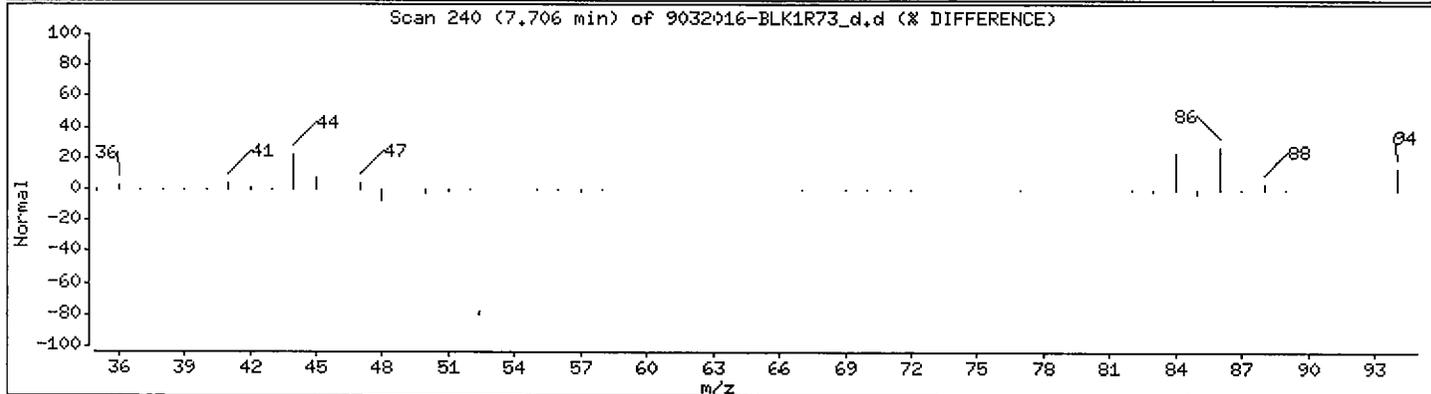
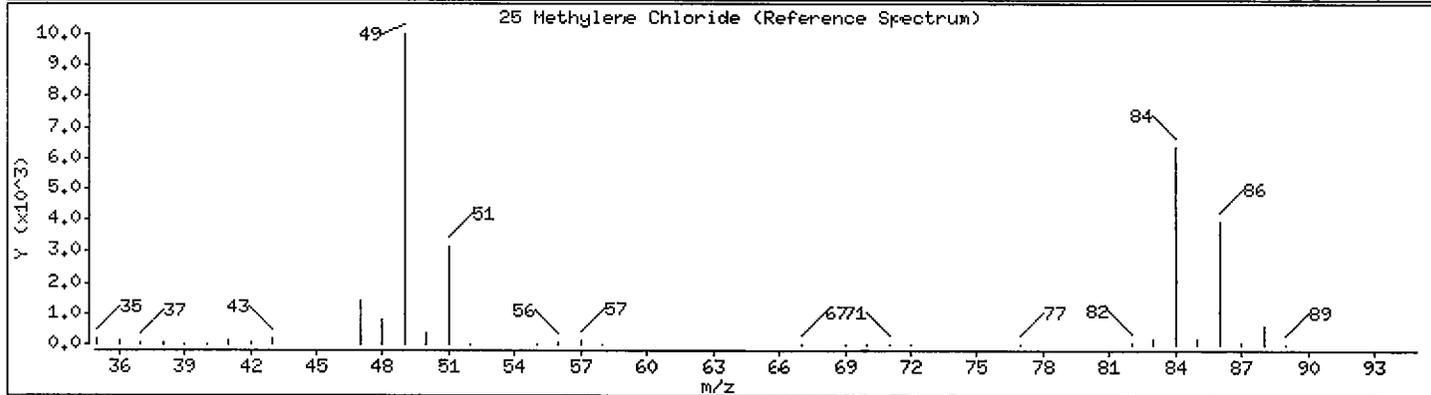
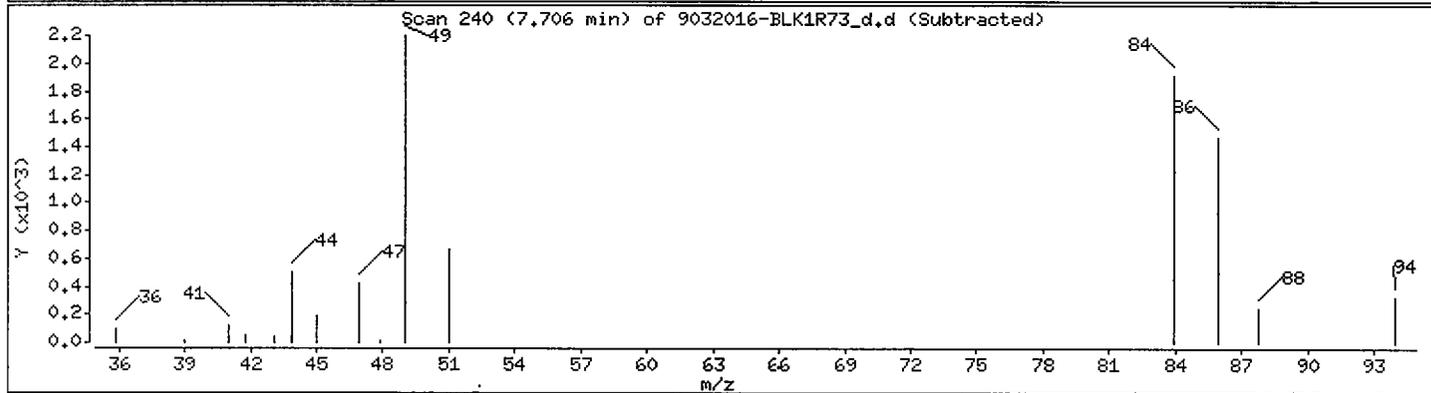
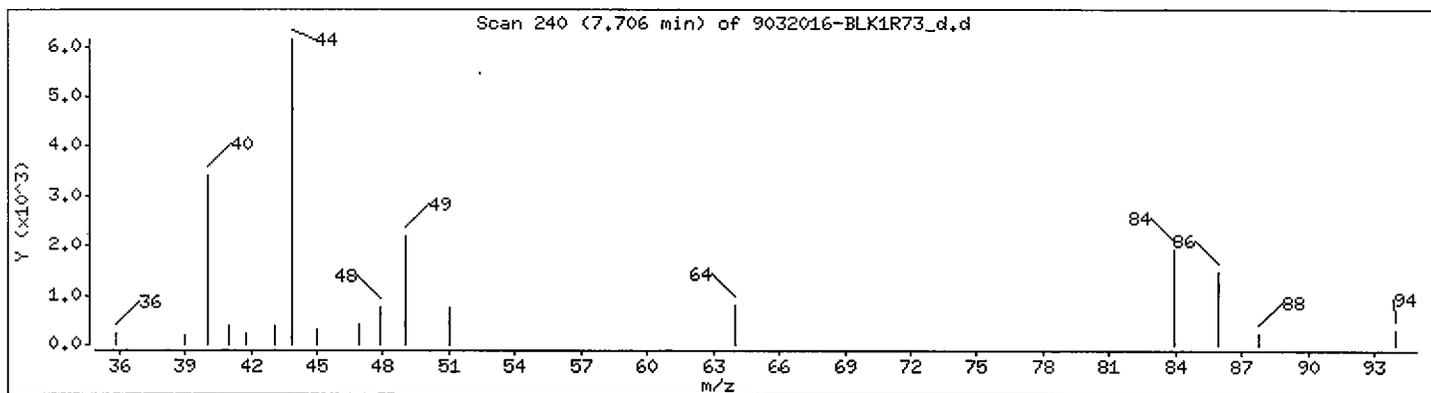
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

25 Methylene Chloride

Concentration: 0.14 ug/L



Data File: /chem/5972hp73.i/DF090320A73_REG,b/9032016-BLK1R73_d.d

Date : 20-MAR-2009 16:39

Client ID: VBLKHE

Instrument: 5972hp73.i

Sample Info: 9032016-BLK1:JAO

Purge Volume: 25.0

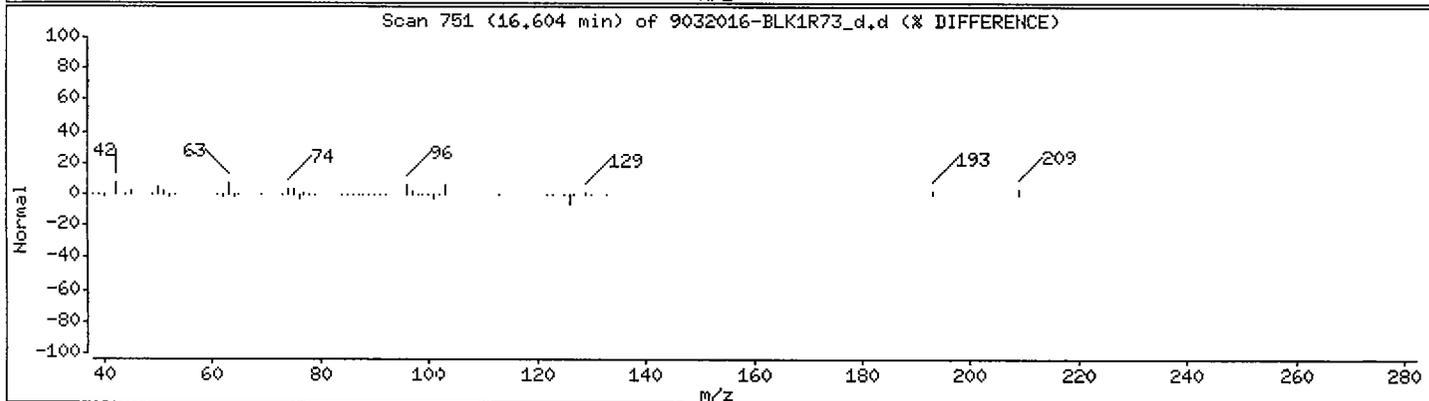
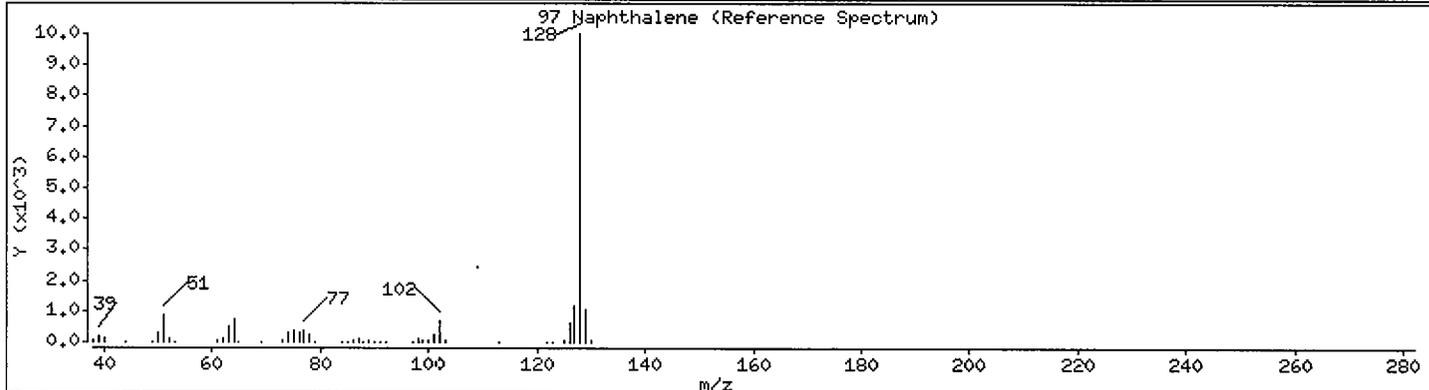
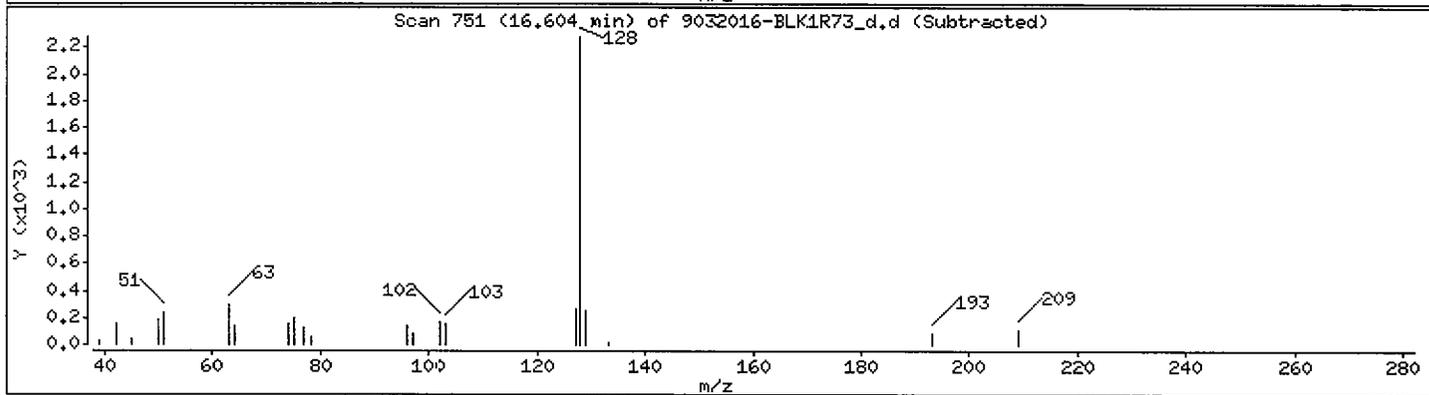
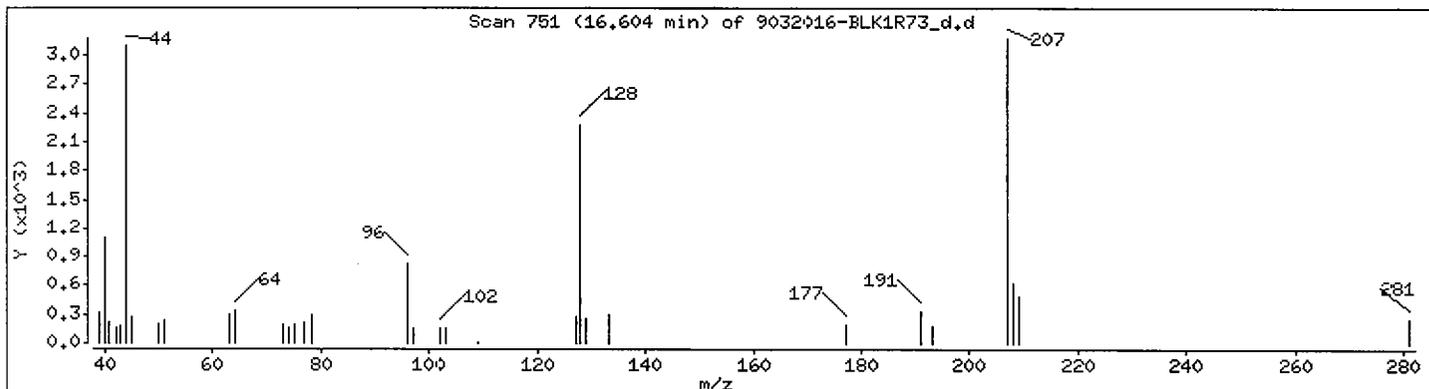
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

97 Naphthalene

Concentration: 0.22 ug/L



c. Laboratory Control Sample Data

- Tabulated Results (Form I VOA)
- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.1 | |
| 74-87-3 | Chloromethane | 4.8 | |
| 75-01-4 | Vinyl Chloride | 5.2 | |
| 74-83-9 | Bromomethane | 5.1 | |
| 75-00-3 | Chloroethane | 5.9 | |
| 75-69-4 | Trichlorofluoromethane | 6.0 | |
| 107-02-8 | Acrolein | 38 | |
| 75-35-4 | 1,1-Dichloroethene | 5.3 | |
| 74-88-4 | Iodomethane | 5.1 | |
| 75-15-0 | Carbon disulfide | 5.4 | |
| 67-64-1 | Acetone | 22 | B |
| 107-05-1 | 3-Chloropropene | 4.1 | |
| 75-05-8 | Acetonitrile | 4.2 | |
| 75-09-2 | Methylene Chloride | 5.3 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | |
| 107-13-1 | Acrylonitrile | 45 | |
| 75-34-3 | 1,1-Dichloroethane | 5.2 | |
| 108-05-4 | Vinyl acetate | 8.8 | |
| 594-20-7 | 2,2-Dichloropropane | 4.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.4 | |
| 78-93-3 | 2-butanone | 19 | |
| 107-12-0 | Propionitrile | 240 | |
| 74-97-5 | Bromochloromethane | 5.8 | |
| 126-98-7 | Methacrylonitrile | 42 | |
| 67-66-3 | Chloroform | 5.5 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.2 | |
| 56-23-5 | Carbon Tetrachloride | 5.4 | |
| 563-58-6 | 1,1-dichloropropene | 4.8 | |
| 71-43-2 | Benzene | 5.3 | |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | |
| 78-83-1 | Isobutyl alcohol | 180 | |
| 79-01-6 | Trichloroethene | 5.3 | |
| 78-87-5 | 1,2-Dichloropropane | 5.2 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

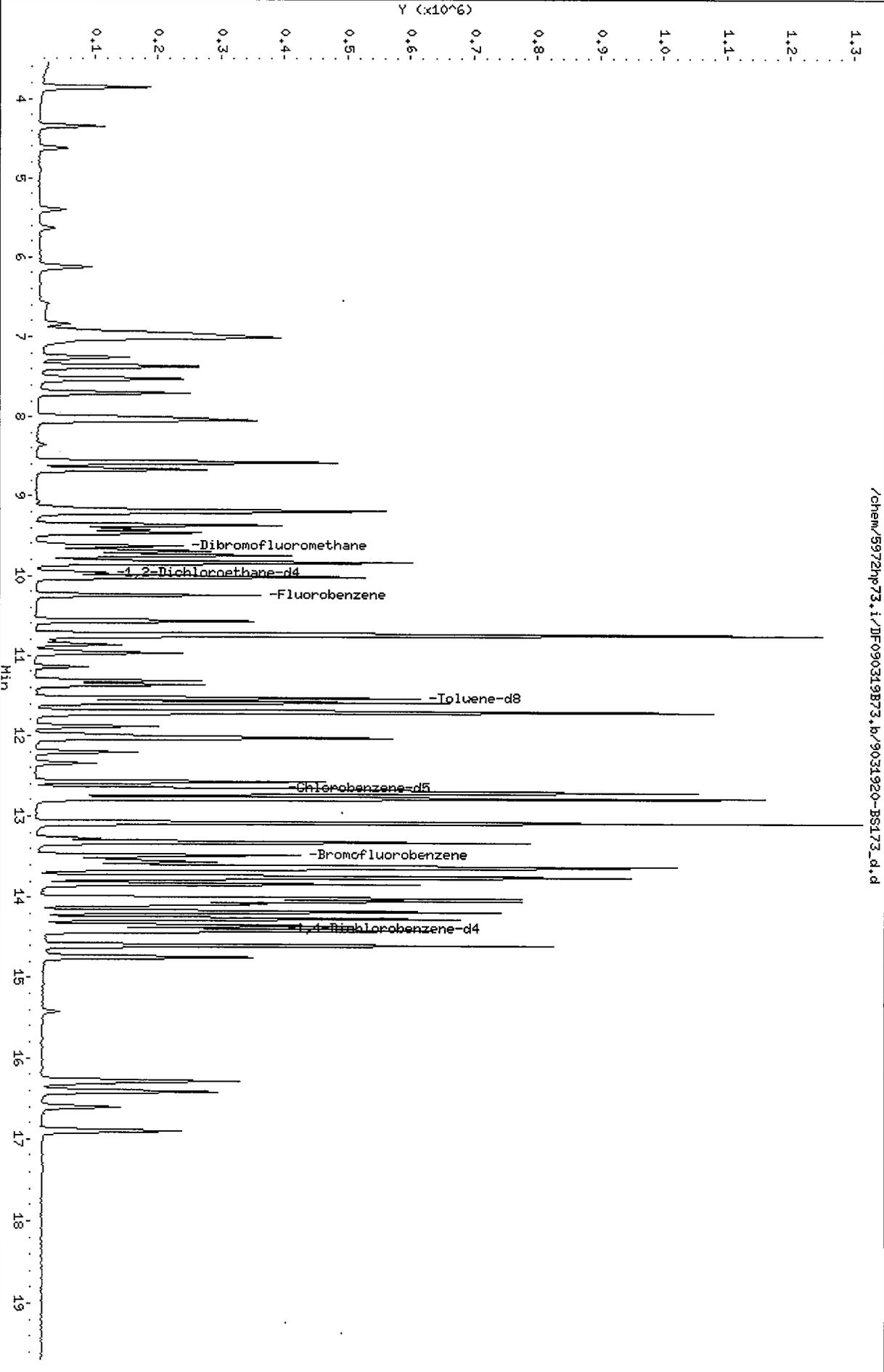
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.1 | |
| 80-62-6 | Methylmethacrylate | 49 | |
| 75-27-4 | Bromodichloromethane | 5.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 4.7 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.7 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | |
| 97-63-2 | Ethylmethacrylate | 47 | |
| 127-18-4 | Tetrachloroethene | 5.4 | |
| 142-28-9 | 1,3-Dichloropropane | 4.9 | |
| 591-78-6 | 2-hexanone | 18 | |
| 124-48-1 | Dibromochloromethane | 5.0 | |
| 108-90-7 | Chlorobenzene | 5.1 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.3 | |
| 100-41-4 | Ethylbenzene | 4.9 | |
| 108-38-3 | m,p-Xylene | 10 | |
| 95-47-6 | o-Xylene | 5.0 | |
| 100-42-5 | Styrene | 4.8 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.4 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.4 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 17 | |
| 541-73-1 | 1,3-Dichlorobenzene | 4.8 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.7 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.7 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.6 | |
| 87-68-3 | Hexachlorobutadiene | 4.9 | |
| 91-20-3 | Naphthalene | 3.6 | B |
| 1330-20-7 | Xylene (total) | 16 | |
| 126-99-8 | Chloroprene | 4.3 | |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/9031920-BS173_d.d
Date: 19-MAR-2009 22:59
Client ID: VDDLCS
Sample Info: 9031920-BS1+TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/9031920-BS173_d.d
 Lab Smp Id: 9031920-BS1 Client Smp ID: VDDLCS
 Inj Date : 19-MAR-2009 22:59
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 9031920-BS1:TD
 Misc Info : VDDLCS
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 4 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|--------|--------|---------|--------|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | 10.248 | 10.253 | (1.000) | 318810 | 125.000 | | |
| * 2 Chlorobenzene-d5 | 117 | | 12.651 | 12.656 | (1.000) | 227035 | 125.000 | | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.392 | 14.397 | (1.000) | 117468 | 125.000 | | |
| \$ 4 Dibromofluoromethane | 113 | | 9.621 | 9.626 | (0.939) | 149680 | 146.519 | 5.9 | |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.969 | 9.957 | (0.973) | 87443 | 127.094 | 5.1 | |
| \$ 6 Toluene-d8 | 98 | | 11.536 | 11.542 | (0.912) | 470791 | 122.636 | 4.9 | |
| \$ 7 Bromofluorobenzene | 95 | | 13.487 | 13.492 | (0.937) | 158127 | 99.9405 | 4.0 | |
| 8 Dichlorodifluoromethane | 85 | | 3.858 | 3.863 | (0.376) | 238041 | 127.520 | 5.1 | |
| 9 Chloromethane | 50 | | 4.345 | 4.351 | (0.424) | 129299 | 119.988 | 4.8 | |
| 10 Vinyl Chloride | 62 | | 4.606 | 4.612 | (0.449) | 67010 | 130.588 | 5.2 | |
| 11 Bromomethane | 94 | | 5.407 | 5.413 | (0.528) | 35656 | 126.516 | 5.1 | |
| 12 Chloroethane | 64 | | 5.634 | 5.639 | (0.550) | 30135 | 147.602 | 5.9 | |
| 13 Trichlorofluoromethane | 101 | | 6.121 | 6.127 | (0.597) | 101921 | 148.960 | 6.0 | |
| 14 Acrolein | 56 | | 6.853 | 6.858 | (0.669) | 48447 | 949.056 | 38 | |
| 17 1,1-Dichloroethene | 96 | | 7.009 | 7.015 | (0.684) | 129340 | 131.561 | 5.3 | |

Handwritten signature and date: 3/20/09

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|------------------------------|-----------|--------|--------|---------|----------------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.062 | 7.067 | (0.689) | 61001 | 560.523 | 22 |
| 19 Iodomethane | 142 | 7.253 | 7.258 | (0.708) | 184538 | 127.693 | 5.1 |
| 20 Carbon disulfide | 76 | 7.375 | 7.380 | (0.720) | 507856 | 134.767 | 5.4 |
| 22 3-Chloropropene | 39 | 7.532 | 7.537 | (0.735) | 111533 | 101.874 | 4.1 |
| 23 Acetonitrile | 41 | 7.532 | 7.537 | (0.735) | 169183 | 104.034 | 4.2 |
| 25 Methylene Chloride | 84 | 7.706 | 7.711 | (0.752) | 126901 | 131.942 | 5.3 |
| 26 Acrylonitrile | 53 | 8.002 | 8.007 | (0.781) | 123981 | 1137.14 | 45 |
| 28 trans-1,2-Dichloroethene | 96 | 8.054 | 8.059 | (0.786) | 153531 | 140.287 | 5.6 |
| 31 Vinyl acetate | 43 | 8.576 | 8.582 | (0.837) | 132706 | 219.335 | 8.8 (M) |
| 32 1,1-Dichloroethane | 63 | 8.559 | 8.564 | (0.835) | 237830 | 130.944 | 5.2 |
| 33 Chloroprene | 53 | 8.663 | 8.669 | (0.845) | 171659 | 106.631 | 4.3 |
| 34 2-butanone | 43 | 9.134 | 9.139 | (0.891) | 77396 | 484.274 | 19 |
| 35 2,2-Dichloropropane | 77 | 9.186 | 9.191 | (0.896) | 178910 | 122.041 | 4.9 |
| 36 cis-1,2-Dichloroethene | 96 | 9.186 | 9.191 | (0.896) | 138477 | 135.058 | 5.4 |
| 37 Propionitrile | 54 | 9.221 | 9.226 | (0.900) | 230566 | 5952.22 | 240 |
| 38 Methacrylonitrile | 41 | 9.377 | 9.365 | (0.915) | 233260 | 1055.21 | 42 |
| 39 Bromochloromethane | 128 | 9.430 | 9.435 | (0.920) | 53888 | 145.223 | 5.8 |
| 40 Chloroform | 83 | 9.464 | 9.470 | (0.924) | 229855 | 136.748 | 5.5 |
| 42 1,1,1-Trichloroethane | 97 | 9.691 | 9.696 | (0.946) | 194970 | 129.718 | 5.2 |
| 44 1,1-dichloropropene | 75 | 9.830 | 9.835 | (0.959) | 180391 | 119.951 | 4.8 |
| 45 Isobutyl alcohol | 43 | 9.795 | 9.801 | (0.956) | 61950 | 4408.71 | 180 |
| 46 Carbon Tetrachloride | 117 | 9.848 | 9.853 | (0.961) | 177709 | 134.425 | 5.4 |
| 47 Benzene | 78 | 10.022 | 10.009 | (0.978) | 487939 | 132.715 | 5.3 |
| 48 1,2-Dichloroethane | 62 | 10.039 | 10.027 | (0.980) | 95733 | 126.077 | 5.0 |
| 49 Trichloroethene | 130 | 10.579 | 10.584 | (1.032) | 148212 | 132.203 | 5.3 |
| 51 1,2-Dichloropropane | 63 | 10.753 | 10.758 | (1.049) | 107179 | 130.368 | 5.2 |
| 52 Methylmethacrylate | 69 | 10.753 | 10.758 | (1.049) | 329073 | 1220.89 | 49 |
| 54 Dibromomethane | 174 | 10.875 | 10.880 | (1.061) | 53468 | 151.316 | 6.1 |
| 55 Bromodichloromethane | 83 | 10.962 | 10.967 | (1.070) | 138110 | 124.886 | 5.0 |
| 57 cis-1,3-Dichloropropene | 75 | 11.310 | 11.315 | (1.104) | 143692 | 121.902 | 4.9 |
| 58 4-Methyl-2-pentanone | 43 | 11.362 | 11.368 | (0.898) | 186358 | 472.337 | 19 |
| 59 Toluene | 92 | 11.589 | 11.594 | (0.916) | 294190 | 118.497 | 4.7 |
| 60 Ethylmethacrylate | 69 | 11.711 | 11.698 | (0.926) | 669241 | 1174.74 | 47 |
| 61 trans-1,3-Dichloropropene | 75 | 11.728 | 11.733 | (0.927) | 115158 | 118.552 | 4.7 |
| 62 1,1,2-Trichloroethane | 97 | 11.885 | 11.890 | (0.939) | 61351 | 126.047 | 5.0 |
| 63 2-hexanone | 43 | 11.989 | 11.995 | (0.948) | 121630 | 441.760 | 18 |
| 64 1,3-Dichloropropane | 76 | 12.024 | 12.029 | (0.950) | 106224 | 123.281 | 4.9 |
| 65 Tetrachloroethene | 164 | 12.041 | 12.047 | (0.952) | 126209 | 133.886 | 5.4 |
| 66 Dibromochloromethane | 129 | 12.216 | 12.221 | (0.966) | 86534 | 124.555 | 5.0 |
| 69 Chlorobenzene | 112 | 12.686 | 12.674 | (1.003) | 318292 | 127.544 | 5.1 |
| 70 Ethylbenzene | 106 | 12.703 | 12.708 | (1.004) | 176925 | 121.835 | 4.9 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.720 | 12.726 | (1.006) | 116239 | 133.662 | 5.3 |
| 72 m,p-Xylene | 106 | 12.790 | 12.778 | (1.011) | 439587 | 252.454 | 10 |
| 73 o-Xylene | 106 | 13.086 | 13.091 | (1.034) | 204780 | 124.018 | 5.0 |
| 74 Styrene | 104 | 13.086 | 13.091 | (1.034) | 307110 | 119.536 | 4.8 |
| 75 Bromoform | 173 | 13.278 | 13.283 | (1.050) | 46787 | 128.402 | 5.1 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.539 | 13.544 | (0.941) | 74242 | 110.399 | 4.4 |

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 112
 3/20

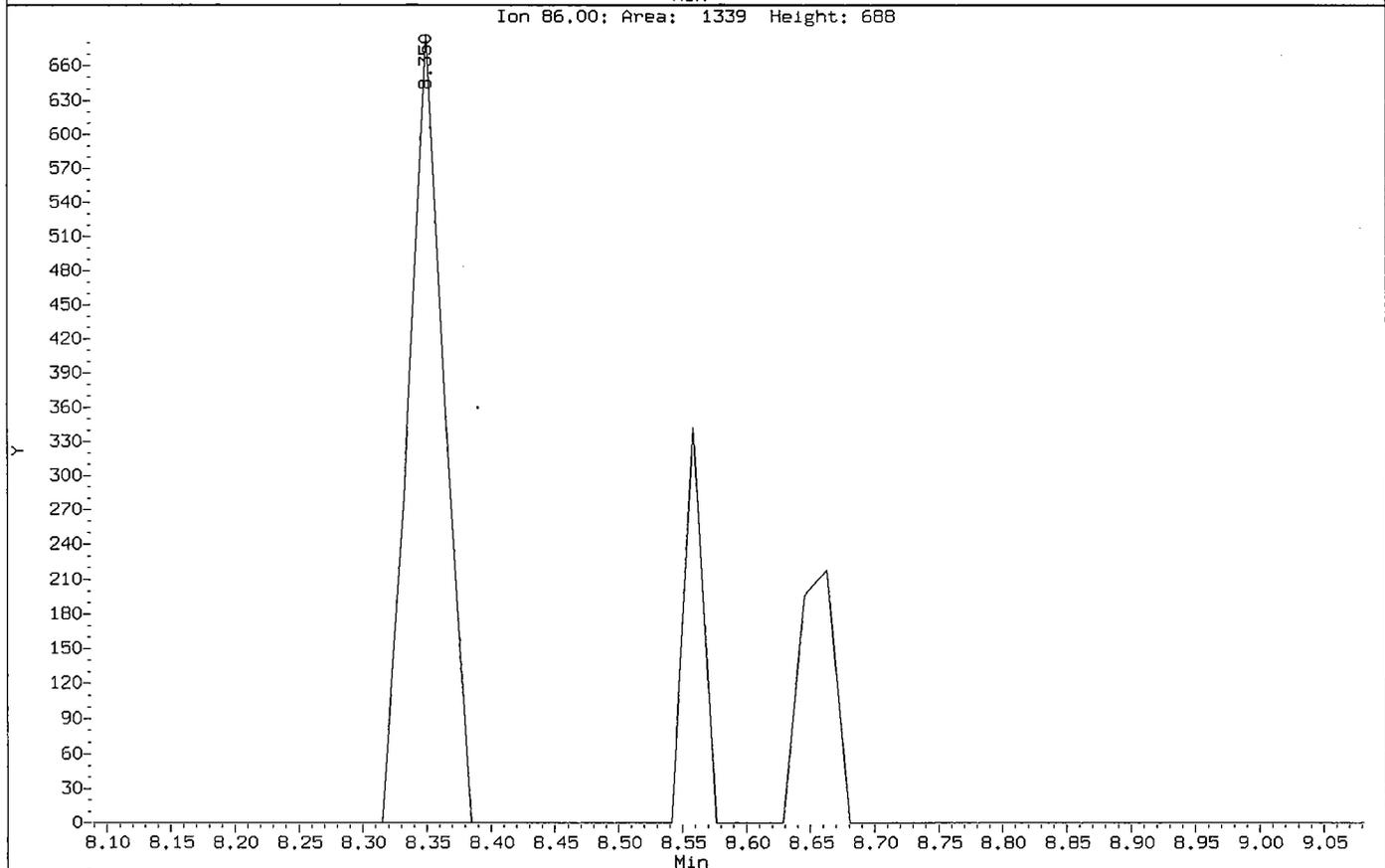
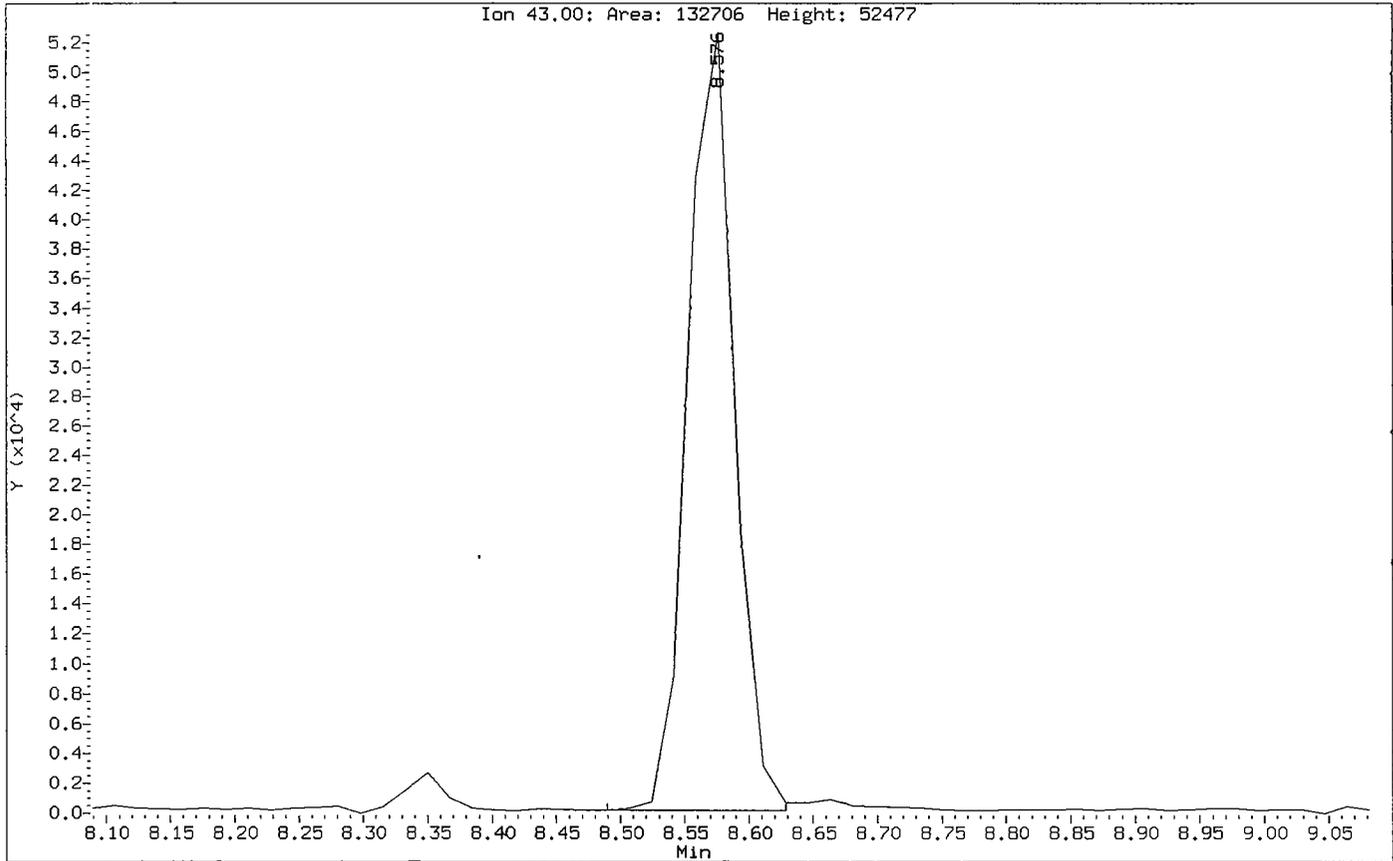
| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | 13.609 | 13.614 | (1.076) | 17706 | 134.906 | 5.4 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.574 | 13.562 | (1.073) | 57660 | 415.690 | 17 |
| 90 1,3-Dichlorobenzene | 146 | 14.357 | 14.363 | (0.998) | 273591 | 119.550 | 4.8 |
| 91 1,4-Dichlorobenzene | 146 | 14.427 | 14.432 | (1.002) | 263833 | 116.371 | 4.7 |
| 93 1,2-Dichlorobenzene | 146 | 14.758 | 14.746 | (1.025) | 208040 | 116.420 | 4.7 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.290 | 16.295 | (1.132) | 142755 | 113.780 | 4.6 |
| 96 Hexachlorobutadiene | 225 | 16.412 | 16.417 | (1.140) | 87018 | 122.271 | 4.9 |
| 97 Naphthalene | 128 | 16.603 | 16.609 | (1.154) | 145098 | 91.1140 | 3.6 |
| M 100 Xylene (total) | 106 | | | | 644367 | 390.240 | 16 |

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF090319B73.b/9031920-BS173_d.d
Injection Date: 19-MAR-2009 22:59
Instrument: 5972hp73.i
Client Sample ID: VDDLCS

Compound: Vinyl acetate
CAS Number: 108-05-4



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS D

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BSD173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.1 | |
| 74-87-3 | Chloromethane | 4.9 | |
| 75-01-4 | Vinyl Chloride | 5.4 | |
| 74-83-9 | Bromomethane | 4.9 | |
| 75-00-3 | Chloroethane | 5.4 | |
| 75-69-4 | Trichlorofluoromethane | 5.8 | |
| 107-02-8 | Acrolein | 39 | |
| 75-35-4 | 1,1-Dichloroethene | 5.3 | |
| 74-88-4 | Iodomethane | 5.4 | |
| 75-15-0 | Carbon disulfide | 5.4 | |
| 67-64-1 | Acetone | 23 | B |
| 107-05-1 | 3-Chloropropene | 4.0 | |
| 75-05-8 | Acetonitrile | 4.1 | |
| 75-09-2 | Methylene Chloride | 5.4 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | |
| 107-13-1 | Acrylonitrile | 46 | |
| 75-34-3 | 1,1-Dichloroethane | 5.2 | |
| 108-05-4 | Vinyl acetate | 8.7 | |
| 594-20-7 | 2,2-Dichloropropane | 4.9 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.6 | |
| 78-93-3 | 2-butanone | 20 | |
| 107-12-0 | Propionitrile | 240 | |
| 74-97-5 | Bromochloromethane | 6.0 | |
| 126-98-7 | Methacrylonitrile | 41 | |
| 67-66-3 | Chloroform | 5.4 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.2 | |
| 56-23-5 | Carbon Tetrachloride | 5.4 | |
| 563-58-6 | 1,1-dichloropropene | 4.9 | |
| 71-43-2 | Benzene | 5.2 | |
| 107-06-2 | 1,2-Dichloroethane | 5.1 | |
| 78-83-1 | Isobutyl alcohol | 190 | |
| 79-01-6 | Trichloroethene | 5.3 | |
| 78-87-5 | 1,2-Dichloropropane | 5.1 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDDLCS D

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-BSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-BSD173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

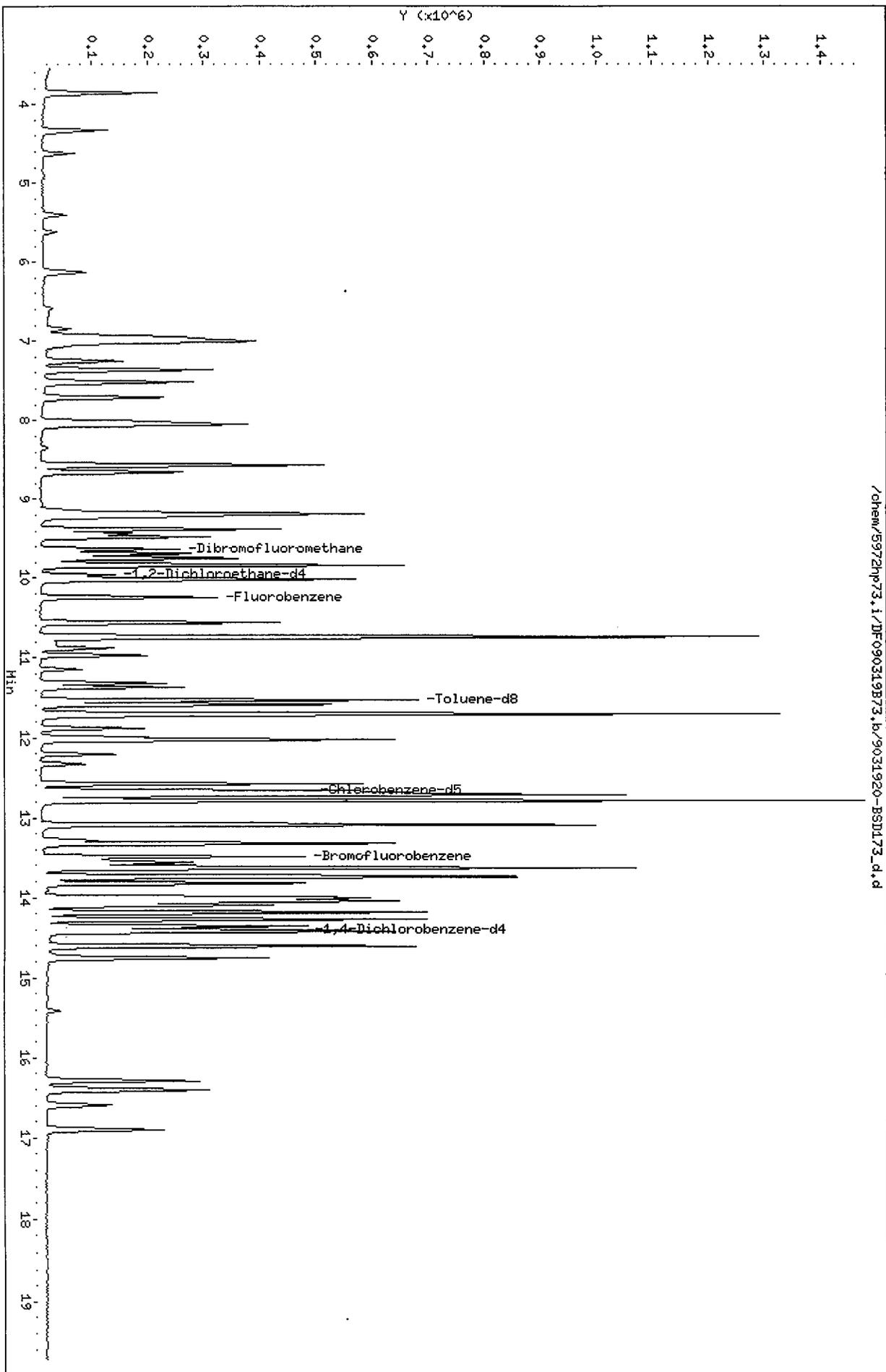
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.3 | |
| 80-62-6 | Methylmethacrylate | 49 | |
| 75-27-4 | Bromodichloromethane | 5.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.8 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 4.6 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.7 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.1 | |
| 97-63-2 | Ethylmethacrylate | 47 | |
| 127-18-4 | Tetrachloroethene | 5.2 | |
| 142-28-9 | 1,3-Dichloropropane | 5.0 | |
| 591-78-6 | 2-hexanone | 18 | |
| 124-48-1 | Dibromochloromethane | 5.1 | |
| 108-90-7 | Chlorobenzene | 5.1 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.1 | |
| 100-41-4 | Ethylbenzene | 4.7 | |
| 108-38-3 | m,p-Xylene | 9.8 | |
| 95-47-6 | o-Xylene | 4.7 | |
| 100-42-5 | Styrene | 4.7 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.6 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.5 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 16 | |
| 541-73-1 | 1,3-Dichlorobenzene | 4.5 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.6 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.6 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.3 | |
| 87-68-3 | Hexachlorobutadiene | 4.7 | |
| 91-20-3 | Naphthalene | 3.7 | B |
| 1330-20-7 | Xylene (total) | 15 | |
| 126-99-8 | Chloroprene | 4.3 | |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/9031920-BSD173.d.d
Date: 19-MAR-2009 23:28
Client ID: VDDLCS
Sample Info: 9031920-BSD1:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/9031920-BSD173_d.d
 Lab Smp Id: 9031920-BSD1 Client Smp ID: VDDLCS
 Inj Date : 19-MAR-2009 23:28
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 9031920-BSD1:TD
 Misc Info : VDDLCS
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 5 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-----------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | 10.254 | 10.253 | (1.000) | 324078 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | 12.657 | 12.656 | (1.000) | 232302 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.398 | 14.397 | (1.000) | 117825 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | 9.627 | 9.626 | (0.939) | 156280 | 150.493 | 6.0 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | 9.958 | 9.957 | (0.971) | 86029 | 123.007 | 4.9 |
| \$ 6 Toluene-d8 | 98 | 11.525 | 11.542 | (0.911) | 485357 | 123.564 | 4.9 |
| \$ 7 Bromofluorobenzene | 95 | 13.493 | 13.492 | (0.937) | 164337 | 103.551 | 4.1 |
| 8 Dichlorodifluoromethane | 85 | 3.864 | 3.863 | (0.377) | 242631 | 127.866 | 5.1 |
| 9 Chloromethane | 50 | 4.334 | 4.351 | (0.423) | 133669 | 122.027 | 4.9 |
| 10 Vinyl Chloride | 62 | 4.612 | 4.612 | (0.450) | 70663 | 135.469 | 5.4 |
| 11 Bromomethane | 94 | 5.413 | 5.413 | (0.528) | 35325 | 123.305 | 4.9 |
| 12 Chloroethane | 64 | 5.622 | 5.639 | (0.548) | 27819 | 134.044 | 5.4 |
| 13 Trichlorofluoromethane | 101 | 6.127 | 6.127 | (0.598) | 100093 | 143.910 | 5.8 |
| 14 Acrolein | 56 | 6.841 | 6.858 | (0.667) | 50866 | 980.246 | 39 |
| 17 1,1-Dichloroethene | 96 | 7.015 | 7.015 | (0.684) | 131880 | 131.964 | 5.3 |

| Compounds | QUANT SIG | | | CONCENTRATIONS | | |
|------------------------------|-----------|--------|----------------|----------------|-----------------|---------------|
| | MASS | RT | EXP RT REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.067 | 7.067 (0.689) | 64158 | 579.949 | 23 |
| 19 Iodomethane | 142 | 7.259 | 7.258 (0.708) | 198662 | 135.232 | 5.4 |
| 20 Carbon disulfide | 76 | 7.363 | 7.380 (0.718) | 520479 | 135.872 | 5.4 |
| 22 3-Chloropropene | 39 | 7.520 | 7.537 (0.733) | 110984 | 99.7249 | 4.0 |
| 23 Acetonitrile | 41 | 7.520 | 7.537 (0.733) | 170153 | 102.930 | 4.1 |
| 25 Methylene Chloride | 84 | 7.712 | 7.711 (0.752) | 131988 | 135.000 | 5.4 |
| 26 Acrylonitrile | 53 | 8.008 | 8.007 (0.781) | 127574 | 1151.07 | 46 |
| 28 trans-1,2-Dichloroethene | 96 | 8.043 | 8.059 (0.784) | 156895 | 141.031 | 5.6 |
| 31 Vinyl acetate | 43 | 8.565 | 8.582 (0.835) | 133950 | 217.792 | 8.7 |
| 32 1,1-Dichloroethane | 63 | 8.565 | 8.564 (0.835) | 238308 | 129.074 | 5.2 |
| 33 Chloroprene | 53 | 8.652 | 8.669 (0.844) | 176366 | 107.774 | 4.3 |
| 34 2-butanone | 43 | 9.139 | 9.139 (0.891) | 81783 | 503.406 | 20 |
| 35 2,2-Dichloropropane | 77 | 9.192 | 9.191 (0.896) | 181652 | 121.897 | 4.9 |
| 36 cis-1,2-Dichloroethene | 96 | 9.192 | 9.191 (0.896) | 146333 | 140.400 | 5.6 |
| 37 Propionitrile | 54 | 9.209 | 9.226 (0.898) | 238482 | 6056.50 | 240 |
| 38 Methacrylonitrile | 41 | 9.366 | 9.365 (0.913) | 233063 | 1037.18 | 41 |
| 39 Bromochloromethane | 128 | 9.436 | 9.435 (0.920) | 56406 | 149.538 | 6.0 |
| 40 Chloroform | 83 | 9.470 | 9.470 (0.924) | 229265 | 134.180 | 5.4 |
| 42 1,1,1-Trichloroethane | 97 | 9.679 | 9.696 (0.944) | 197115 | 129.013 | 5.2 |
| 44 1,1-dichloropropene | 75 | 9.836 | 9.835 (0.959) | 188607 | 123.376 | 4.9 |
| 45 Isobutyl alcohol | 43 | 9.801 | 9.801 (0.956) | 66617 | 4663.78 | 190 |
| 46 Carbon Tetrachloride | 117 | 9.836 | 9.853 (0.959) | 180807 | 134.545 | 5.4 |
| 47 Benzene | 78 | 10.010 | 10.009 (0.976) | 489273 | 130.915 | 5.2 |
| 48 1,2-Dichloroethane | 62 | 10.028 | 10.027 (0.978) | 97804 | 126.710 | 5.1 |
| 49 Trichloroethene | 130 | 10.567 | 10.584 (1.031) | 150499 | 132.061 | 5.3 |
| 51 1,2-Dichloropropane | 63 | 10.759 | 10.758 (1.049) | 107102 | 128.156 | 5.1 |
| 52 Methylmethacrylate | 69 | 10.741 | 10.758 (1.048) | 338155 | 1234.19 | 49 |
| 54 Dibromomethane | 174 | 10.881 | 10.880 (1.061) | 56171 | 156.382 | 6.3 |
| 55 Bromodichloromethane | 83 | 10.968 | 10.967 (1.070) | 145601 | 129.520 | 5.2 |
| 57 cis-1,3-Dichloropropene | 75 | 11.316 | 11.315 (1.104) | 143279 | 119.576 | 4.8 |
| 58 4-Methyl-2-pentanone | 43 | 11.368 | 11.368 (0.898) | 194132 | 480.885 | 19 |
| 59 Toluene | 92 | 11.595 | 11.594 (0.916) | 293177 | 115.412 | 4.6 |
| 60 Ethylmethacrylate | 69 | 11.699 | 11.698 (0.924) | 687458 | 1179.36 | 47 |
| 61 trans-1,3-Dichloropropene | 75 | 11.734 | 11.733 (0.927) | 117623 | 118.344 | 4.7 |
| 62 1,1,2-Trichloroethane | 97 | 11.891 | 11.890 (0.939) | 63844 | 128.195 | 5.1 |
| 63 2-hexanone | 43 | 11.995 | 11.995 (0.948) | 123401 | 438.030 | 18 |
| 64 1,3-Dichloropropane | 76 | 12.030 | 12.029 (0.950) | 109581 | 124.294 | 5.0 |
| 65 Tetrachloroethene | 164 | 12.030 | 12.047 (0.950) | 126026 | 130.661 | 5.2 |
| 66 Dibromochloromethane | 129 | 12.221 | 12.221 (0.966) | 90314 | 127.049 | 5.1 |
| 69 Chlorobenzene | 112 | 12.674 | 12.674 (1.001) | 323106 | 126.538 | 5.1 |
| 70 Ethylbenzene | 106 | 12.709 | 12.708 (1.004) | 175738 | 118.274 | 4.7 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.726 | 12.726 (1.006) | 114106 | 128.234 | 5.1 |
| 72 m,p-Xylene | 106 | 12.779 | 12.778 (1.010) | 434893 | 244.095 | 9.8 |
| 73 o-Xylene | 106 | 13.092 | 13.091 (1.034) | 200105 | 118.439 | 4.7 |
| 74 Styrene | 104 | 13.092 | 13.091 (1.034) | 308038 | 117.179 | 4.7 |
| 75 Bromoform | 173 | 13.284 | 13.283 (1.050) | 47346 | 126.990 | 5.1 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.545 | 13.544 (0.941) | 75309 | 111.646 | 4.5 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 79 1,2,3-Trichloropropane | 110 | 13.597 | 13.614 | (1.074) | 18662 | 138.966 | 5.6 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.562 | 13.562 | (1.072) | 58158 | 409.774 | 16 |
| 90 1,3-Dichlorobenzene | 146 | 14.346 | 14.363 | (0.996) | 257949 | 112.373 | 4.5 |
| 91 1,4-Dichlorobenzene | 146 | 14.415 | 14.432 | (1.001) | 261882 | 115.160 | 4.6 |
| 93 1,2-Dichlorobenzene | 146 | 14.746 | 14.746 | (1.024) | 205408 | 114.599 | 4.6 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.296 | 16.295 | (1.132) | 135918 | 108.002 | 4.3 |
| 96 Hexachlorobutadiene | 225 | 16.400 | 16.417 | (1.139) | 84103 | 117.817 | 4.7 |
| 97 Naphthalene | 128 | 16.592 | 16.609 | (1.152) | 146207 | 91.5322 | 3.7 |
| M 100 Xylene (total) | 106 | | | | 634998 | 375.847 | 15 |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BS173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.3 | |
| 74-87-3 | Chloromethane | 4.7 | |
| 75-01-4 | Vinyl Chloride | 5.6 | |
| 74-83-9 | Bromomethane | 5.4 | |
| 75-00-3 | Chloroethane | 5.3 | |
| 75-69-4 | Trichlorofluoromethane | 5.9 | |
| 107-02-8 | Acrolein | 45 | |
| 75-35-4 | 1,1-Dichloroethene | 5.5 | |
| 74-88-4 | Iodomethane | 5.1 | |
| 75-15-0 | Carbon disulfide | 5.5 | |
| 67-64-1 | Acetone | 20 | B |
| 107-05-1 | 3-Chloropropene | 4.5 | |
| 75-05-8 | Acetonitrile | 4.5 | |
| 75-09-2 | Methylene Chloride | 5.5 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | |
| 107-13-1 | Acrylonitrile | 48 | |
| 75-34-3 | 1,1-Dichloroethane | 5.4 | |
| 108-05-4 | Vinyl acetate | 9.0 | |
| 594-20-7 | 2,2-Dichloropropane | 5.1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.5 | |
| 78-93-3 | 2-butanone | 20 | |
| 107-12-0 | Propionitrile | 240 | |
| 74-97-5 | Bromochloromethane | 5.9 | |
| 126-98-7 | Methacrylonitrile | 45 | |
| 67-66-3 | Chloroform | 5.4 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | |
| 56-23-5 | Carbon Tetrachloride | 5.0 | |
| 563-58-6 | 1,1-dichloropropene | 4.7 | |
| 71-43-2 | Benzene | 5.3 | |
| 107-06-2 | 1,2-Dichloroethane | 5.3 | |
| 78-83-1 | Isobutyl alcohol | 190 | |
| 79-01-6 | Trichloroethene | 5.2 | |
| 78-87-5 | 1,2-Dichloropropane | 5.3 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BS173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

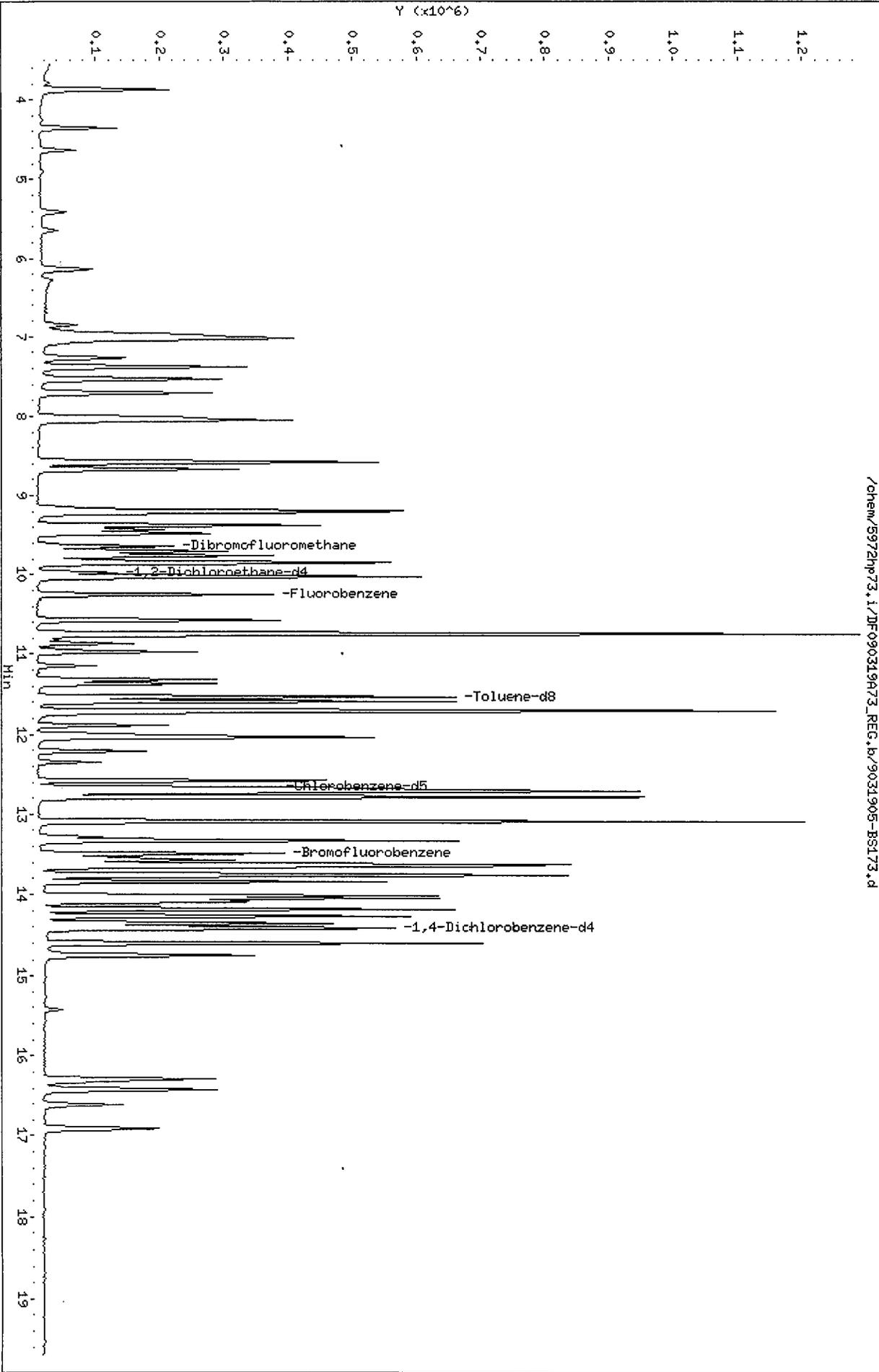
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.3 | |
| 80-62-6 | Methylmethacrylate | 49 | |
| 75-27-4 | Bromodichloromethane | 5.1 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | |
| 108-10-1 | 4-Methyl-2-pentanone | 21 | |
| 108-88-3 | Toluene | 4.7 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.3 | |
| 97-63-2 | Ethylmethacrylate | 49 | |
| 127-18-4 | Tetrachloroethene | 4.7 | |
| 142-28-9 | 1,3-Dichloropropane | 5.3 | |
| 591-78-6 | 2-hexanone | 19 | |
| 124-48-1 | Dibromochloromethane | 5.2 | |
| 108-90-7 | Chlorobenzene | 4.9 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.1 | |
| 100-41-4 | Ethylbenzene | 4.4 | |
| 108-38-3 | m,p-Xylene | 8.7 | |
| 95-47-6 | o-Xylene | 4.5 | |
| 100-42-5 | Styrene | 4.5 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 18 | |
| 541-73-1 | 1,3-Dichlorobenzene | 4.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.2 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.4 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.1 | |
| 87-68-3 | Hexachlorobutadiene | 4.6 | |
| 91-20-3 | Naphthalene | 3.7 | B |
| 1330-20-7 | Xylene (total) | 14 | |
| 126-99-8 | Chloroprene | 4.6 | |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319A73_REG.b/9031905-BS173.d
Date: 19-MAR-2009 11:37
Client ID: VHBLCS
Sample Info: 9031905-BS1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319A73_REG.b/9031905-BS173.d
 Lab Smp Id: 9031905-BS1 Client Smp ID: VHBLCS
 Inj Date : 19-MAR-2009 11:37
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9031905-BS1:JAO
 Misc Info : VHBLCS
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:36 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 4 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-----------|------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | 10.253 | 10.251 | (1.000) | 331177 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.656 | 12.654 | (1.000) | 223812 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.414 | 14.412 | (1.000) | 110343 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.626 | 9.624 | (0.939) | 143226 | 134.966 | 5.4 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.974 | 9.972 | (0.973) | 84993 | 118.920 | 4.8 |
| \$ 6 Toluene-d8 | 98 | | 11.541 | 11.539 | (0.912) | 468034 | 123.674 | 4.9 |
| \$ 7 Bromofluorobenzene | 95 | | 13.492 | 13.489 | (0.936) | 152997 | 102.942 | 4.1 |
| 8 Dichlorodifluoromethane | 85 | | 3.880 | 3.878 | (0.378) | 256229 | 132.137 | 5.3 |
| 9 Chloromethane | 50 | | 4.350 | 4.348 | (0.424) | 132664 | 118.514 | 4.7 |
| 10 Vinyl Chloride | 62 | | 4.629 | 4.627 | (0.451) | 74522 | 139.805 | 5.6 |
| 11 Bromomethane | 94 | | 5.412 | 5.410 | (0.528) | 39565 | 135.144 | 5.4 |
| 12 Chloroethane | 64 | | 5.639 | 5.636 | (0.550) | 27992 | 131.986 | 5.3 |
| 13 Trichlorofluoromethane | 101 | | 6.126 | 6.124 | (0.597) | 105499 | 148.431 | 5.9 |
| 14 Acrolein | 56 | | 6.858 | 6.855 | (0.669) | 59520 | 1122.43 | 45 |
| 17 1,1-Dichloroethene | 96 | | 7.032 | 7.029 | (0.686) | 139814 | 136.904 | 5.5 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|------------------------------|-----------|--------|--------|---------|----------------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.067 | 7.064 | (0.689) | 56725 | 501.768 | 20 |
| 19 Iodomethane | 142 | 7.258 | 7.256 | (0.708) | 193174 | 128.677 | 5.1 |
| 20 Carbon disulfide | 76 | 7.380 | 7.378 | (0.720) | 538086 | 137.457 | 5.5 |
| 22 3-Chloropropene | 39 | 7.537 | 7.534 | (0.735) | 127704 | 112.289 | 4.5 |
| 23 Acetonitrile | 41 | 7.537 | 7.534 | (0.735) | 189770 | 112.336 | 4.5 |
| 25 Methylene Chloride | 84 | 7.711 | 7.708 | (0.752) | 136832 | 136.955 | 5.5 |
| 26 Acrylonitrile | 53 | 8.007 | 8.004 | (0.781) | 137047 | 1210.04 | 48 |
| 28 trans-1,2-Dichloroethene | 96 | 8.059 | 8.057 | (0.786) | 159603 | 140.390 | 5.6 |
| 31 Vinyl acetate | 43 | 8.581 | 8.579 | (0.837) | 140799 | 224.021 | 9.0 (M) |
| 32 1,1-Dichloroethane | 63 | 8.581 | 8.579 | (0.837) | 255541 | 135.441 | 5.4 |
| 33 Chloroprene | 53 | 8.668 | 8.666 | (0.845) | 191313 | 114.402 | 4.6 |
| 34 2-butanone | 43 | 9.156 | 9.136 | (0.893) | 84717 | 510.288 | 20 |
| 35 2,2-Dichloropropane | 77 | 9.191 | 9.189 | (0.896) | 192870 | 126.651 | 5.1 |
| 36 cis-1,2-Dichloroethene | 96 | 9.191 | 9.189 | (0.896) | 145901 | 136.985 | 5.5 |
| 37 Propionitrile | 54 | 9.226 | 9.223 | (0.900) | 245120 | 6091.64 | 240 |
| 38 Methacrylonitrile | 41 | 9.382 | 9.380 | (0.915) | 261024 | 1136.71 | 45 |
| 39 Bromochloromethane | 128 | 9.435 | 9.432 | (0.920) | 56380 | 146.265 | 5.9 |
| 40 Chloroform | 83 | 9.487 | 9.485 | (0.925) | 236701 | 135.563 | 5.4 |
| 42 1,1,1-Trichloroethane | 97 | 9.696 | 9.693 | (0.946) | 195794 | 125.402 | 5.0 |
| 44 1,1-dichloropropene | 75 | 9.835 | 9.833 | (0.959) | 185325 | 118.630 | 4.7 |
| 45 Isobutyl alcohol | 43 | 9.800 | 9.798 | (0.956) | 70816 | 4851.47 | 190 |
| 46 Carbon Tetrachloride | 117 | 9.852 | 9.850 | (0.961) | 171745 | 125.062 | 5.0 |
| 47 Benzene | 78 | 10.027 | 10.024 | (0.978) | 510182 | 133.583 | 5.3 |
| 48 1,2-Dichloroethane | 62 | 10.044 | 10.042 | (0.980) | 103925 | 131.754 | 5.3 |
| 49 Trichloroethene | 130 | 10.584 | 10.581 | (1.032) | 150639 | 129.350 | 5.2 |
| 51 1,2-Dichloropropane | 63 | 10.775 | 10.773 | (1.051) | 112725 | 131.993 | 5.3 |
| 52 Methylmethacrylate | 69 | 10.758 | 10.756 | (1.049) | 339915 | 1214.02 | 49 |
| 54 Dibromomethane | 174 | 10.880 | 10.877 | (1.061) | 57486 | 156.612 | 6.3 |
| 55 Bromodichloromethane | 83 | 10.967 | 10.965 | (1.070) | 147586 | 128.472 | 5.1 |
| 57 cis-1,3-Dichloropropene | 75 | 11.315 | 11.313 | (1.104) | 151309 | 123.570 | 4.9 |
| 58 4-Methyl-2-pentanone | 43 | 11.367 | 11.365 | (0.898) | 201085 | 517.003 | 21 |
| 59 Toluene | 92 | 11.594 | 11.591 | (0.916) | 288122 | 117.724 | 4.7 |
| 60 Ethylmethacrylate | 69 | 11.716 | 11.713 | (0.926) | 688403 | 1225.78 | 49 |
| 61 trans-1,3-Dichloropropene | 75 | 11.733 | 11.731 | (0.927) | 118728 | 123.987 | 5.0 |
| 62 1,1,2-Trichloroethane | 97 | 11.890 | 11.887 | (0.939) | 63913 | 133.202 | 5.3 |
| 63 2-hexanone | 43 | 11.994 | 11.992 | (0.948) | 128406 | 473.086 | 19 |
| 64 1,3-Dichloropropane | 76 | 12.029 | 12.027 | (0.950) | 111695 | 131.497 | 5.3 |
| 65 Tetrachloroethene | 164 | 12.046 | 12.044 | (0.952) | 108464 | 116.719 | 4.7 |
| 66 Dibromochloromethane | 129 | 12.221 | 12.218 | (0.966) | 88831 | 129.703 | 5.2 |
| 69 Chlorobenzene | 112 | 12.691 | 12.688 | (1.003) | 302542 | 122.979 | 4.9 |
| 70 Ethylbenzene | 106 | 12.708 | 12.706 | (1.004) | 156424 | 109.269 | 4.4 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.725 | 12.723 | (1.006) | 109082 | 127.238 | 5.1 |
| 72 m,p-Xylene | 106 | 12.795 | 12.793 | (1.011) | 375465 | 218.734 | 8.7 |
| 73 o-Xylene | 106 | 13.091 | 13.089 | (1.034) | 181595 | 111.561 | 4.5 |
| 74 Styrene | 104 | 13.091 | 13.089 | (1.034) | 283571 | 111.963 | 4.5 |
| 75 Bromoform | 173 | 13.283 | 13.280 | (1.050) | 46047 | 128.191 | 5.1 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.544 | 13.542 | (0.940) | 72267 | 114.401 | 4.6 |

Data File: /chem/5972hp73.i/DF090319A73_REG.b/9031905-BS173.d
Report Date: 20-Mar-2009 18:37

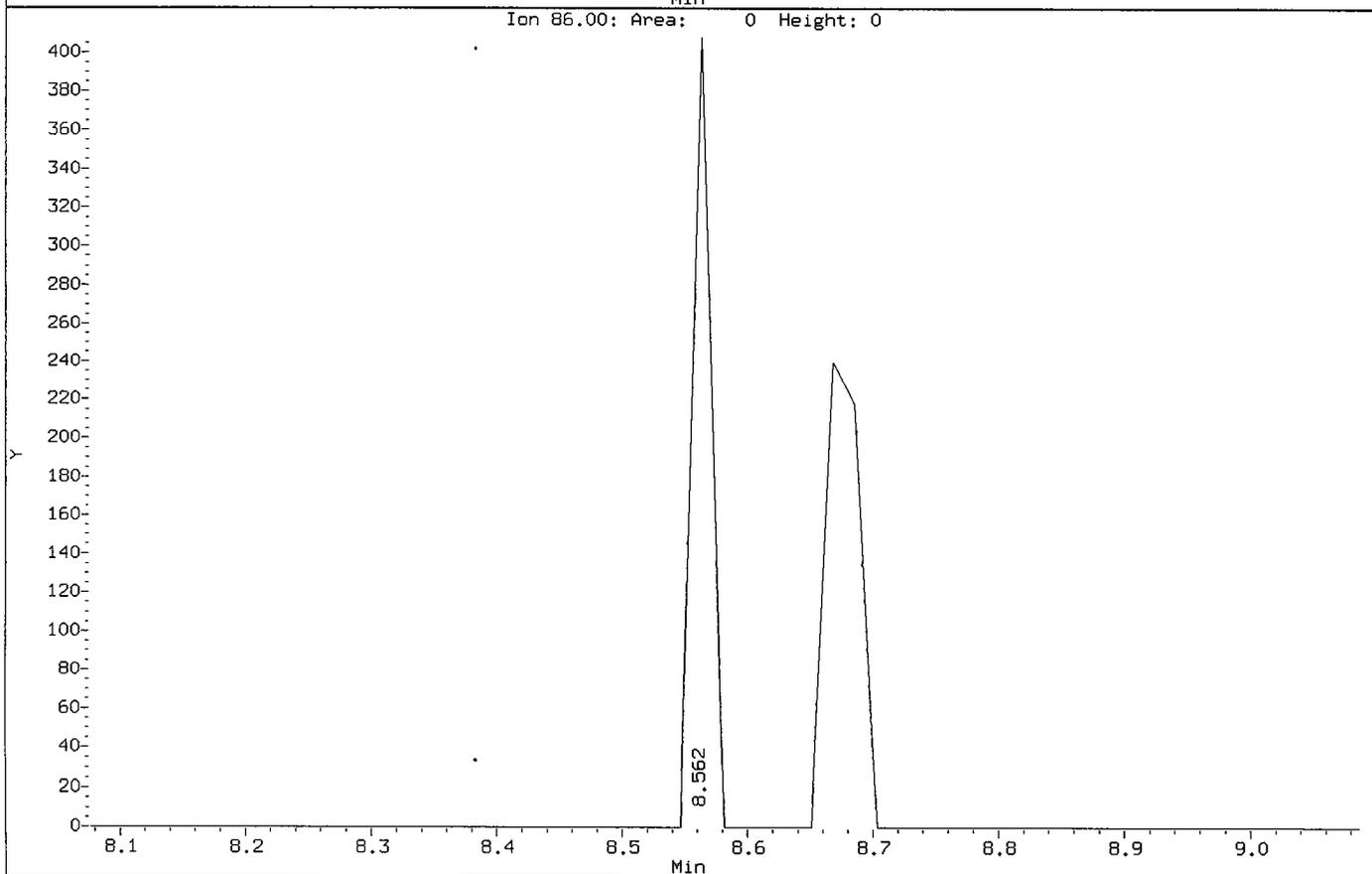
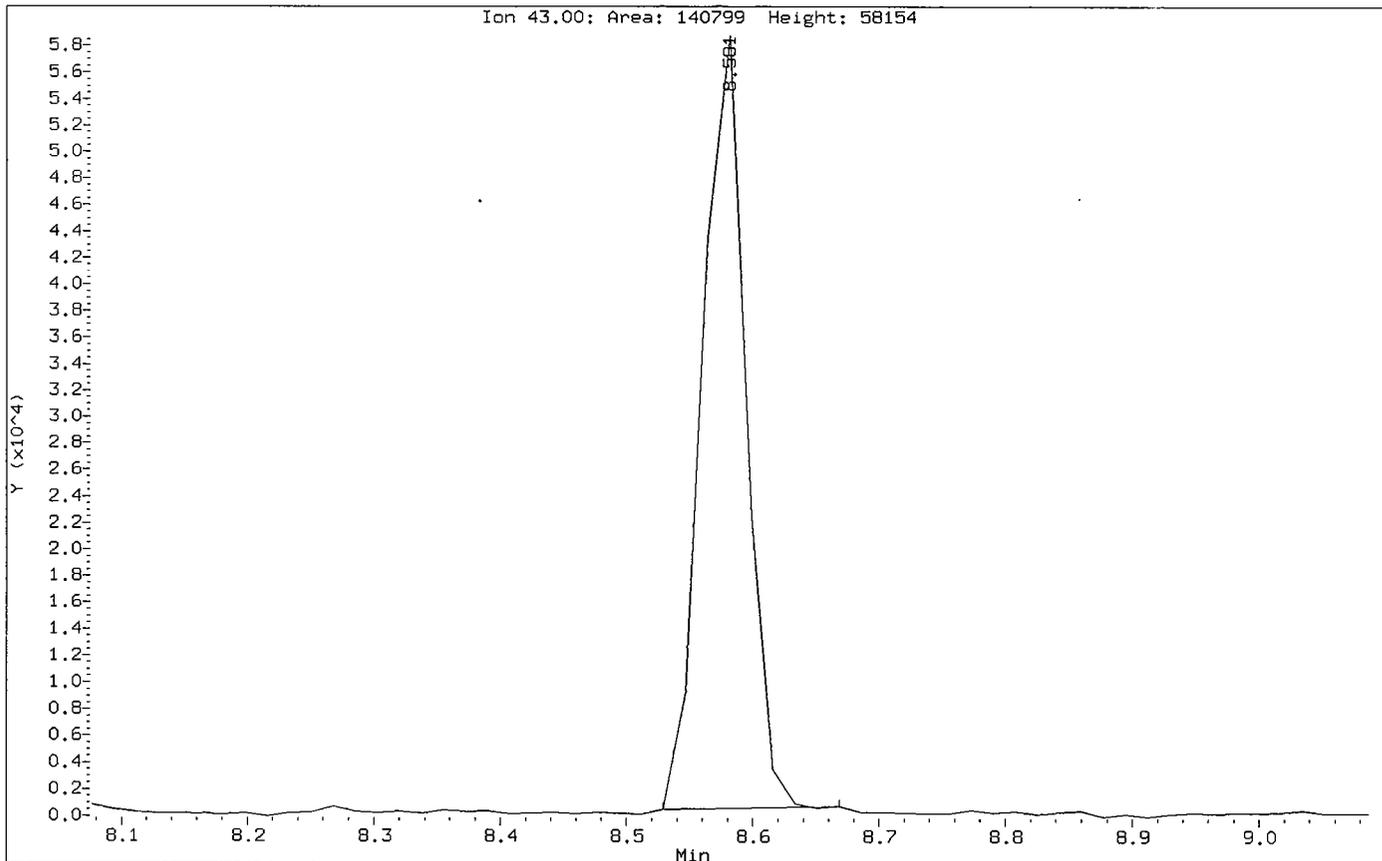
| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== |
| 79 1,2,3-Trichloropropane | 110 | 13.613 | 13.611 | (1.076) | 16340 | 126.291 | 5.1 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.579 | 13.576 | (1.073) | 61988 | 453.328 | 18 |
| 90 1,3-Dichlorobenzene | 146 | 14.362 | 14.360 | (0.996) | 228403 | 106.249 | 4.2 |
| 91 1,4-Dichlorobenzene | 146 | 14.432 | 14.430 | (1.001) | 225339 | 105.810 | 4.2 |
| 93 1,2-Dichlorobenzene | 146 | 14.763 | 14.760 | (1.024) | 186105 | 110.870 | 4.4 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.295 | 16.293 | (1.130) | 120277 | 102.054 | 4.1 |
| 96 Hexachlorobutadiene | 225 | 16.417 | 16.415 | (1.139) | 76695 | 114.724 | 4.6 |
| 97 Naphthalene | 128 | 16.608 | 16.606 | (1.152) | 139654 | 93.3581 | 3.7 |
| M 100 Xylene (total) | 106 | | | | 557060 | 342.224 | 14 |

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF090319A73_REG.b/9031905-BS173.d
Injection Date: 19-MAR-2009 11:37
Instrument: 5972hp73.i
Client Sample ID: VHBLCS

Compound: Vinyl acetate
CAS Number: 108-05-4



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCSD

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BSD173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.4 | |
| 74-87-3 | Chloromethane | 4.9 | |
| 75-01-4 | Vinyl Chloride | 5.7 | |
| 74-83-9 | Bromomethane | 5.3 | |
| 75-00-3 | Chloroethane | 5.8 | |
| 75-69-4 | Trichlorofluoromethane | 6.0 | |
| 107-02-8 | Acrolein | 47 | |
| 75-35-4 | 1,1-Dichloroethene | 5.6 | |
| 74-88-4 | Iodomethane | 5.4 | |
| 75-15-0 | Carbon disulfide | 5.6 | |
| 67-64-1 | Acetone | 19 | B |
| 107-05-1 | 3-Chloropropene | 4.6 | |
| 75-05-8 | Acetonitrile | 4.7 | |
| 75-09-2 | Methylene Chloride | 5.4 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.7 | |
| 107-13-1 | Acrylonitrile | 49 | |
| 75-34-3 | 1,1-Dichloroethane | 5.4 | |
| 108-05-4 | Vinyl acetate | 9.1 | |
| 594-20-7 | 2,2-Dichloropropane | 5.1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.7 | |
| 78-93-3 | 2-butanone | 21 | |
| 107-12-0 | Propionitrile | 250 | |
| 74-97-5 | Bromochloromethane | 5.9 | |
| 126-98-7 | Methacrylonitrile | 45 | |
| 67-66-3 | Chloroform | 5.5 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.1 | |
| 56-23-5 | Carbon Tetrachloride | 5.2 | |
| 563-58-6 | 1,1-dichloropropene | 4.8 | |
| 71-43-2 | Benzene | 5.4 | |
| 107-06-2 | 1,2-Dichloroethane | 5.2 | |
| 78-83-1 | Isobutyl alcohol | 200 | |
| 79-01-6 | Trichloroethene | 5.5 | |
| 78-87-5 | 1,2-Dichloropropane | 5.3 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLCS D

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031905-BSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031905-BSD173

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

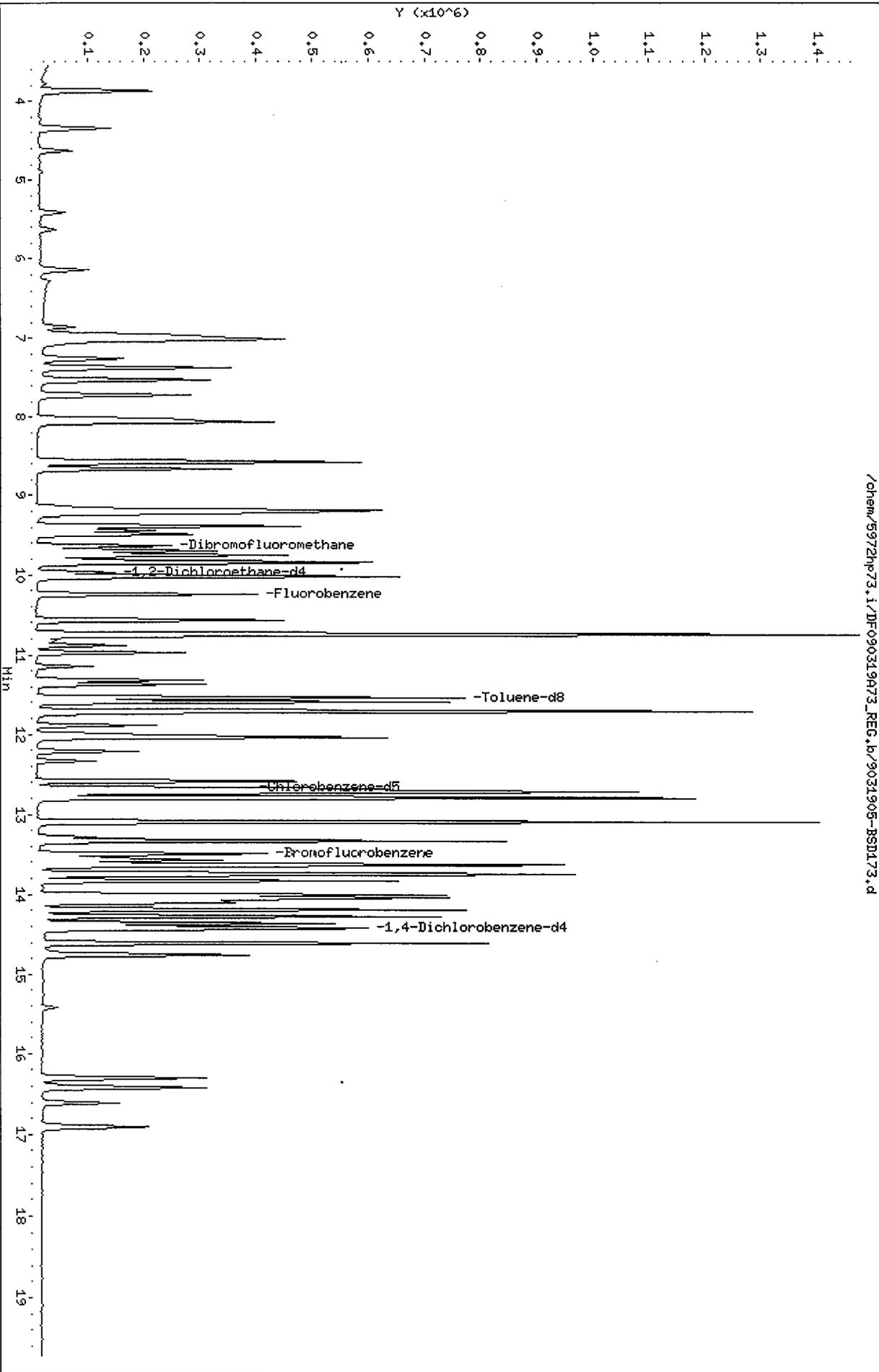
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.1 | |
| 80-62-6 | Methylmethacrylate | 49 | |
| 75-27-4 | Bromodichloromethane | 5.2 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | |
| 108-10-1 | 4-Methyl-2-pentanone | 21 | |
| 108-88-3 | Toluene | 4.9 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.4 | |
| 97-63-2 | Ethylmethacrylate | 51 | |
| 127-18-4 | Tetrachloroethene | 5.0 | |
| 142-28-9 | 1,3-Dichloropropane | 5.1 | |
| 591-78-6 | 2-hexanone | 20 | |
| 124-48-1 | Dibromochloromethane | 5.4 | |
| 108-90-7 | Chlorobenzene | 5.2 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.2 | |
| 100-41-4 | Ethylbenzene | 4.8 | |
| 108-38-3 | m,p-Xylene | 9.9 | |
| 95-47-6 | o-Xylene | 5.0 | |
| 100-42-5 | Styrene | 4.9 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.2 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 18 | |
| 541-73-1 | 1,3-Dichlorobenzene | 4.6 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.5 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.5 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.2 | |
| 87-68-3 | Hexachlorobutadiene | 4.7 | |
| 91-20-3 | Naphthalene | 3.7 | B |
| 1330-20-7 | Xylene (total) | 15 | |
| 126-99-8 | Chloroprene | 4.6 | |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319A73_REG.b/9031905-BSD173.d
Date: 19-MAR-2009 12:06
Client ID: VHBLCSD
Sample Info: 9031905-BSD1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: JAO
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319A73_REG.b/9031905-BSD173.d
 Lab Smp Id: 9031905-BSD1 Client Smp ID: VHBLCSD
 Inj Date : 19-MAR-2009 12:06
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9031905-BSD1:JAO
 Misc Info : VHBLCSD
 Comment :
 Method : /chem/5972hp73.i/DF090319A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:36 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 5 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-----------|------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | | 96 | 10.252 | 10.251 | (1.000) | 353825 | 125.000 | |
| * 2 Chlorobenzene-d5 | | 117 | 12.655 | 12.654 | (1.000) | 238360 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | | 152 | 14.413 | 14.412 | (1.000) | 118432 | 125.000 | |
| \$ 4 Dibromofluoromethane | | 113 | 9.625 | 9.624 | (0.939) | 165024 | 145.553 | 5.8 |
| \$ 5 1,2-Dichloroethane-d4 | | 65 | 9.973 | 9.972 | (0.973) | 95046 | 124.474 | 5.0 |
| \$ 6 Toluene-d8 | | 98 | 11.540 | 11.539 | (0.912) | 532971 | 132.237 | 5.3 |
| \$ 7 Bromofluorobenzene | | 95 | 13.491 | 13.489 | (0.936) | 172454 | 108.108 | 4.3 |
| 8 Dichlorodifluoromethane | | 85 | 3.879 | 3.878 | (0.378) | 277874 | 134.127 | 5.4 |
| 9 Chloromethane | | 50 | 4.349 | 4.348 | (0.424) | 145776 | 121.891 | 4.9 |
| 10 Vinyl Chloride | | 62 | 4.628 | 4.627 | (0.451) | 80952 | 142.147 | 5.7 |
| 11 Bromomethane | | 94 | 5.411 | 5.410 | (0.528) | 41098 | 131.395 | 5.3 |
| 12 Chloroethane | | 64 | 5.638 | 5.636 | (0.550) | 33010 | 145.684 | 5.8 |
| 13 Trichlorofluoromethane | | 101 | 6.125 | 6.124 | (0.597) | 114169 | 150.348 | 6.0 |
| 14 Acrolein | | 56 | 6.857 | 6.855 | (0.669) | 66696 | 1177.25 | 47 |
| 17 1,1-Dichloroethene | | 96 | 7.031 | 7.029 | (0.686) | 153240 | 140.446 | 5.6 |

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|------------------------------|-----------|--------|--------|---------|----------------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.066 | 7.064 | (0.689) | 57291 | 474.336 | 19 |
| 19 Iodomethane | 142 | 7.257 | 7.256 | (0.708) | 217087 | 135.350 | 5.4 |
| 20 Carbon disulfide | 76 | 7.379 | 7.378 | (0.720) | 580971 | 138.913 | 5.6 |
| 22 3-Chloropropene | 39 | 7.536 | 7.534 | (0.735) | 139023 | 114.417 | 4.6 |
| 23 Acetonitrile | 41 | 7.536 | 7.534 | (0.735) | 210250 | 116.493 | 4.7 |
| 25 Methylene Chloride | 84 | 7.710 | 7.708 | (0.752) | 144937 | 135.782 | 5.4 |
| 26 Acrylonitrile | 53 | 8.006 | 8.004 | (0.781) | 148987 | 1231.26 | 49 |
| 28 trans-1,2-Dichloroethene | 96 | 8.058 | 8.057 | (0.786) | 171713 | 141.374 | 5.7 |
| 31 Vinyl acetate | 43 | 8.580 | 8.579 | (0.837) | 152818 | 227.580 | 9.1 |
| 32 1,1-Dichloroethane | 63 | 8.580 | 8.579 | (0.837) | 272134 | 135.003 | 5.4 |
| 33 Chloroprene | 53 | 8.667 | 8.666 | (0.845) | 207462 | 116.118 | 4.6 |
| 34 2-butanone | 43 | 9.138 | 9.136 | (0.891) | 94786 | 534.392 | 21 |
| 35 2,2-Dichloropropane | 77 | 9.190 | 9.189 | (0.896) | 206501 | 126.922 | 5.1 |
| 36 cis-1,2-Dichloroethene | 96 | 9.190 | 9.189 | (0.896) | 161060 | 141.538 | 5.7 |
| 37 Propionitrile | 54 | 9.225 | 9.223 | (0.900) | 265247 | 6169.90 | 250 |
| 38 Methacrylonitrile | 41 | 9.381 | 9.380 | (0.915) | 276868 | 1128.53 | 45 |
| 39 Bromochloromethane | 128 | 9.434 | 9.432 | (0.920) | 61065 | 148.279 | 5.9 |
| 40 Chloroform | 83 | 9.486 | 9.485 | (0.925) | 254696 | 136.532 | 5.5 |
| 42 1,1,1-Trichloroethane | 97 | 9.695 | 9.693 | (0.946) | 213051 | 127.720 | 5.1 |
| 44 1,1-dichloropropene | 75 | 9.834 | 9.833 | (0.959) | 201344 | 120.635 | 4.8 |
| 45 Isobutyl alcohol | 43 | 9.799 | 9.798 | (0.956) | 78005 | 5001.91 | 200 |
| 46 Carbon Tetrachloride | 117 | 9.851 | 9.850 | (0.961) | 190968 | 130.159 | 5.2 |
| 47 Benzene | 78 | 10.026 | 10.024 | (0.978) | 549771 | 134.735 | 5.4 |
| 48 1,2-Dichloroethane | 62 | 10.043 | 10.042 | (0.980) | 109532 | 129.974 | 5.2 |
| 49 Trichloroethene | 130 | 10.583 | 10.581 | (1.032) | 171607 | 137.923 | 5.5 |
| 51 1,2-Dichloropropane | 63 | 10.757 | 10.773 | (1.049) | 121495 | 133.156 | 5.3 |
| 52 Methylmethacrylate | 69 | 10.757 | 10.756 | (1.049) | 369867 | 1236.44 | 49 |
| 54 Dibromomethane | 174 | 10.879 | 10.877 | (1.061) | 60094 | 153.238 | 6.1 |
| 55 Bromodichloromethane | 83 | 10.966 | 10.965 | (1.070) | 158790 | 129.377 | 5.2 |
| 57 cis-1,3-Dichloropropene | 75 | 11.314 | 11.313 | (1.104) | 161696 | 123.601 | 4.9 |
| 58 4-Methyl-2-pentanone | 43 | 11.366 | 11.365 | (0.898) | 218189 | 526.740 | 21 |
| 59 Toluene | 92 | 11.593 | 11.591 | (0.916) | 319892 | 122.728 | 4.9 |
| 60 Ethylmethacrylate | 69 | 11.715 | 11.713 | (0.926) | 755308 | 1262.83 | 51 |
| 61 trans-1,3-Dichloropropene | 75 | 11.732 | 11.731 | (0.927) | 126993 | 124.524 | 5.0 |
| 62 1,1,2-Trichloroethane | 97 | 11.889 | 11.887 | (0.939) | 68726 | 134.490 | 5.4 |
| 63 2-hexanone | 43 | 11.993 | 11.992 | (0.948) | 145492 | 503.320 | 20 |
| 64 1,3-Dichloropropane | 76 | 12.028 | 12.027 | (0.950) | 115793 | 128.002 | 5.1 |
| 65 Tetrachloroethene | 164 | 12.045 | 12.044 | (0.952) | 124945 | 126.248 | 5.0 |
| 66 Dibromochloromethane | 129 | 12.220 | 12.218 | (0.966) | 97797 | 134.079 | 5.4 |
| 69 Chlorobenzene | 112 | 12.690 | 12.688 | (1.003) | 343128 | 130.964 | 5.2 |
| 70 Ethylbenzene | 106 | 12.707 | 12.706 | (1.004) | 182431 | 119.658 | 4.8 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.724 | 12.723 | (1.006) | 119470 | 130.850 | 5.2 |
| 72 m,p-Xylene | 106 | 12.794 | 12.793 | (1.011) | 452144 | 247.328 | 9.9 |
| 73 o-Xylene | 106 | 13.090 | 13.089 | (1.034) | 215446 | 124.279 | 5.0 |
| 74 Styrene | 104 | 13.090 | 13.089 | (1.034) | 328850 | 121.916 | 4.9 |
| 75 Bromoform | 173 | 13.282 | 13.280 | (1.050) | 49023 | 128.146 | 5.1 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.543 | 13.542 | (0.940) | 77298 | 114.008 | 4.6 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 79 1,2,3-Trichloropropane | 110 | 13.613 | 13.611 | (1.076) | 17864 | 129.643 | 5.2 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.578 | 13.576 | (1.073) | 65230 | 447.922 | 18 |
| 90 1,3-Dichlorobenzene | 146 | 14.361 | 14.360 | (0.996) | 265484 | 115.063 | 4.6 |
| 91 1,4-Dichlorobenzene | 146 | 14.431 | 14.430 | (1.001) | 256221 | 112.093 | 4.5 |
| 93 1,2-Dichlorobenzene | 146 | 14.762 | 14.760 | (1.024) | 201755 | 111.984 | 4.5 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.294 | 16.293 | (1.130) | 133676 | 105.676 | 4.2 |
| 96 Hexachlorobutadiene | 225 | 16.416 | 16.415 | (1.139) | 84555 | 117.843 | 4.7 |
| 97 Naphthalene | 128 | 16.607 | 16.606 | (1.152) | 148545 | 92.5193 | 3.7 |
| M 100 Xylene (total) | 106 | | | | 667590 | 385.095 | 15 |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHELCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 7.4 | |
| 74-87-3 | Chloromethane | 5.3 | |
| 75-01-4 | Vinyl Chloride | 5.9 | |
| 74-83-9 | Bromomethane | 5.3 | |
| 75-00-3 | Chloroethane | 4.6 | |
| 75-69-4 | Trichlorofluoromethane | 4.9 | |
| 107-02-8 | Acrolein | 65 | |
| 75-35-4 | 1,1-Dichloroethene | 5.2 | |
| 74-88-4 | Iodomethane | 5.1 | |
| 75-15-0 | Carbon disulfide | 5.1 | |
| 67-64-1 | Acetone | 20 | B |
| 107-05-1 | 3-Chloropropene | 5.3 | |
| 75-05-8 | Acetonitrile | 5.5 | |
| 75-09-2 | Methylene Chloride | 5.1 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 5.3 | |
| 107-13-1 | Acrylonitrile | 100 | |
| 75-34-3 | 1,1-Dichloroethane | 5.3 | |
| 108-05-4 | Vinyl acetate | 22 | |
| 594-20-7 | 2,2-Dichloropropane | 5.2 | |
| 156-59-2 | cis-1,2-Dichloroethene | 5.4 | |
| 78-93-3 | 2-butanone | 23 | |
| 107-12-0 | Propionitrile | 260 | |
| 74-97-5 | Bromochloromethane | 5.0 | |
| 126-98-7 | Methacrylonitrile | 53 | |
| 67-66-3 | Chloroform | 5.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.4 | |
| 56-23-5 | Carbon Tetrachloride | 5.5 | |
| 563-58-6 | 1,1-dichloropropene | 5.6 | |
| 71-43-2 | Benzene | 5.3 | |
| 107-06-2 | 1,2-Dichloroethane | 5.1 | |
| 78-83-1 | Isobutyl alcohol | 230 | |
| 79-01-6 | Trichloroethene | 5.1 | |
| 78-87-5 | 1,2-Dichloropropane | 5.3 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHELCS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9032016-BS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9032016-BS173_D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

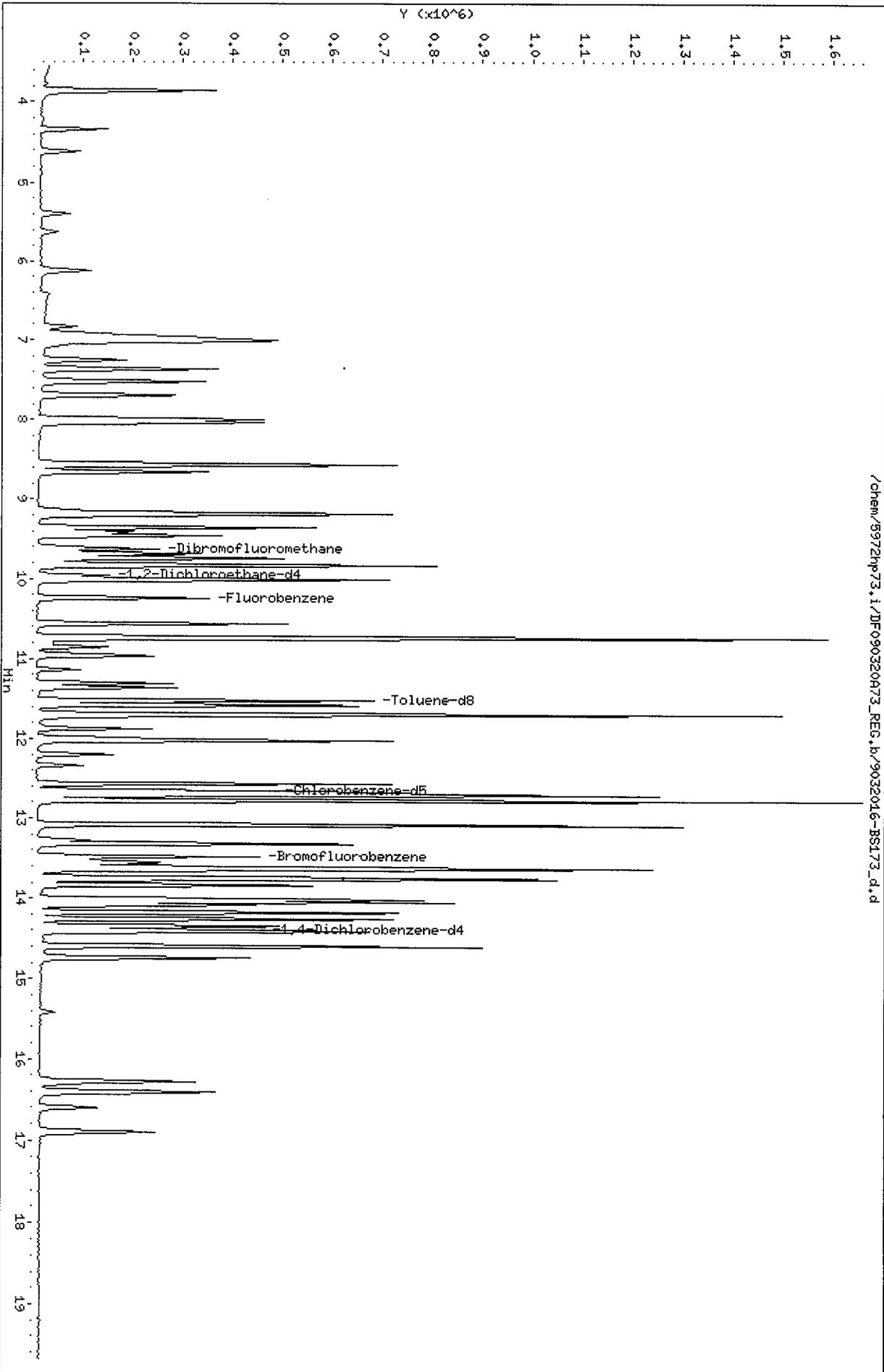
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 4.9 | |
| 80-62-6 | Methylmethacrylate | 54 | |
| 75-27-4 | Bromodichloromethane | 5.4 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 25 | |
| 108-88-3 | Toluene | 5.5 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.8 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.2 | |
| 97-63-2 | Ethylmethacrylate | 55 | |
| 127-18-4 | Tetrachloroethene | 5.1 | |
| 142-28-9 | 1,3-Dichloropropane | 5.2 | |
| 591-78-6 | 2-hexanone | 25 | |
| 124-48-1 | Dibromochloromethane | 5.0 | |
| 108-90-7 | Chlorobenzene | 5.2 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.1 | |
| 100-41-4 | Ethylbenzene | 5.4 | |
| 108-38-3 | m,p-Xylene | 11 | |
| 95-47-6 | o-Xylene | 5.4 | |
| 100-42-5 | Styrene | 5.4 | |
| 75-25-2 | Bromoform | 5.1 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.1 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 19 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.4 | |
| 95-50-1 | 1,2-Dichlorobenzene | 4.9 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.9 | |
| 87-68-3 | Hexachlorobutadiene | 6.0 | |
| 91-20-3 | Naphthalene | 4.5 | B |
| 1330-20-7 | Xylene (total) | 17 | |
| 126-99-8 | Chloroprene | 5.5 | |

FORM I VOA

Data File: /chem/5972hp73.i/DF090320A73_REG.b/9032016-BS173_d.d
Date: 20-MAR-2009 17:08
Client ID: WHELCS
Sample Info: 9032016-BS1:J40
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: J40
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090320A73_REG.b/9032016-BS173_d.d
 Lab Smp Id: 9032016-BS1 Client Smp ID: VHELCS
 Inj Date : 20-MAR-2009 17:08
 Operator : JAO Inst ID: 5972hp73.i
 Smp Info : 9032016-BS1:JAO
 Misc Info : VHELCS
 Comment :
 Method : /chem/5972hp73.i/DF090320A73_REG.b/W8260-B-25MLv10.m
 Meth Date : 23-Mar-2009 13:55 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 14:12 Cal File: 9C20003-CAL573.d
 Als bottle: 4 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-----------|------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | 10.248 | 10.248 | (1.000) | 345699 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.651 | 12.651 | (1.000) | 238055 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.393 | 14.393 | (1.000) | 112897 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.622 | 9.622 | (0.939) | 150084 | 119.624 | 4.8 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.952 | 9.952 | (0.971) | 94146 | 119.921 | 4.8 |
| \$ 6 Toluene-d8 | 98 | | 11.520 | 11.520 | (0.911) | 480973 | 120.263 | 4.8 |
| \$ 7 Bromofluorobenzene | 95 | | 13.487 | 13.487 | (0.937) | 157594 | 117.487 | 4.7 (M) |
| 8 Dichlorodifluoromethane | 85 | | 3.858 | 3.858 | (0.376) | 417801 | 185.077 | 7.4 |
| 9 Chloromethane | 50 | | 4.328 | 4.328 | (0.422) | 164031 | 133.603 | 5.3 |
| 10 Vinyl Chloride | 62 | | 4.607 | 4.607 | (0.450) | 108771 | 147.779 | 5.9 |
| 11 Bromomethane | 94 | | 5.408 | 5.408 | (0.528) | 54542 | 132.617 | 5.3 |
| 12 Chloroethane | 64 | | 5.617 | 5.617 | (0.548) | 37995 | 113.784 | 4.6 |
| 13 Trichlorofluoromethane | 101 | | 6.122 | 6.122 | (0.597) | 129641 | 122.827 | 4.9 |
| 14 Acrolein | 56 | | 6.836 | 6.836 | (0.667) | 76532 | 1613.46 | 65 |
| 17 1,1-Dichloroethene | 96 | | 7.010 | 7.010 | (0.684) | 158609 | 130.455 | 5.2 |

240
3/23/09

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|------------------------------|-----------|--------|--------|---------|----------------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.062 | 7.062 | (0.689) | 60238 | 501.630 | 20 |
| 19 Iodomethane | 142 | 7.254 | 7.254 | (0.708) | 240171 | 126.261 | 5.1 |
| 20 Carbon disulfide | 76 | 7.358 | 7.358 | (0.718) | 615126 | 128.720 | 5.1 |
| 22 3-Chloropropene | 39 | 7.515 | 7.515 | (0.733) | 155085 | 132.476 | 5.3 |
| 23 Acetonitrile | 41 | 7.515 | 7.515 | (0.733) | 241217 | 137.177 | 5.5 |
| 25 Methylene Chloride | 84 | 7.689 | 7.689 | (0.750) | 159968 | 128.311 | 5.1 |
| 26 Acrylonitrile | 53 | 8.002 | 8.002 | (0.781) | 314940 | 2580.67 | 100 |
| 28 trans-1,2-Dichloroethene | 96 | 8.037 | 8.037 | (0.784) | 184996 | 132.999 | 5.3 |
| 31 Vinyl acetate | 43 | 8.542 | 8.559 | (0.833) | 348962 | 539.351 | 22 |
| 32 1,1-Dichloroethane | 63 | 8.559 | 8.559 | (0.835) | 295978 | 131.956 | 5.3 |
| 33 Chloroprene | 53 | 8.647 | 8.646 | (0.844) | 228778 | 138.630 | 5.5 |
| 34 2-butanone | 43 | 9.134 | 9.134 | (0.891) | 88102 | 578.821 | 23 |
| 35 2,2-Dichloropropane | 77 | 9.186 | 9.186 | (0.896) | 215394 | 129.009 | 5.2 |
| 36 cis-1,2-Dichloroethene | 96 | 9.186 | 9.186 | (0.896) | 171047 | 135.798 | 5.4 |
| 37 Propionitrile | 54 | 9.204 | 9.204 | (0.898) | 283675 | 6435.04 | 260 |
| 38 Methacrylonitrile | 41 | 9.360 | 9.360 | (0.913) | 305127 | 1336.40 | 53 |
| 39 Bromochloromethane | 128 | 9.430 | 9.430 | (0.920) | 59687 | 125.365 | 5.0 |
| 40 Chloroform | 83 | 9.465 | 9.465 | (0.924) | 273931 | 130.797 | 5.2 |
| 42 1,1,1-Trichloroethane | 97 | 9.674 | 9.674 | (0.944) | 233766 | 134.411 | 5.4 |
| 44 1,1-dichloropropene | 75 | 9.831 | 9.831 | (0.959) | 231219 | 140.132 | 5.6 |
| 45 Isobutyl alcohol | 43 | 9.796 | 9.796 | (0.956) | 72082 | 5629.43 | 230 |
| 46 Carbon Tetrachloride | 117 | 9.831 | 9.831 | (0.959) | 213183 | 136.717 | 5.5 |
| 47 Benzene | 78 | 10.005 | 10.005 | (0.976) | 603686 | 133.437 | 5.3 |
| 48 1,2-Dichloroethane | 62 | 10.022 | 10.022 | (0.978) | 116883 | 128.398 | 5.1 |
| 49 Trichloroethene | 130 | 10.562 | 10.562 | (1.031) | 168810 | 128.319 | 5.1 |
| 51 1,2-Dichloropropane | 63 | 10.753 | 10.753 | (1.049) | 134750 | 132.992 | 5.3 |
| 52 Methylmethacrylate | 69 | 10.736 | 10.736 | (1.048) | 390209 | 1346.73 | 54 |
| 54 Dibromomethane | 174 | 10.875 | 10.875 | (1.061) | 56266 | 122.264 | 4.9 |
| 55 Bromodichloromethane | 83 | 10.962 | 10.962 | (1.070) | 169625 | 135.041 | 5.4 |
| 57 cis-1,3-Dichloropropene | 75 | 11.311 | 11.311 | (1.104) | 163684 | 125.669 | 5.0 |
| 58 4-Methyl-2-pentanone | 43 | 11.363 | 11.363 | (0.898) | 215692 | 622.731 | 25 |
| 59 Toluene | 92 | 11.589 | 11.589 | (0.916) | 350710 | 136.510 | 5.5 |
| 60 Ethylmethacrylate | 69 | 11.694 | 11.694 | (0.924) | 782308 | 1375.90 | 55 |
| 61 trans-1,3-Dichloropropene | 75 | 11.729 | 11.728 | (0.927) | 123174 | 120.528 | 4.8 |
| 62 1,1,2-Trichloroethane | 97 | 11.885 | 11.885 | (0.939) | 73030 | 129.422 | 5.2 |
| 63 2-hexanone | 43 | 11.990 | 11.990 | (0.948) | 139807 | 631.062 | 25 |
| 64 1,3-Dichloropropane | 76 | 12.025 | 12.024 | (0.950) | 125969 | 130.833 | 5.2 |
| 65 Tetrachloroethene | 164 | 12.042 | 12.042 | (0.952) | 135977 | 128.068 | 5.1 |
| 66 Dibromochloromethane | 129 | 12.216 | 12.216 | (0.966) | 93212 | 124.334 | 5.0 |
| 69 Chlorobenzene | 112 | 12.669 | 12.669 | (1.001) | 358547 | 129.081 | 5.2 |
| 70 Ethylbenzene | 106 | 12.704 | 12.704 | (1.004) | 200918 | 135.269 | 5.4 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.721 | 12.721 | (1.006) | 124708 | 128.398 | 5.1 |
| 72 m,p-Xylene | 106 | 12.773 | 12.773 | (1.010) | 491093 | 272.993 | 11 |
| 73 o-Xylene | 106 | 13.087 | 13.087 | (1.034) | 229378 | 135.391 | 5.4 |
| 74 Styrene | 104 | 13.087 | 13.087 | (1.034) | 350920 | 135.549 | 5.4 |
| 75 Bromoform | 173 | 13.278 | 13.278 | (1.050) | 47048 | 126.398 | 5.1 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.539 | 13.539 | (0.941) | 81303 | 126.706 | 5.1 |

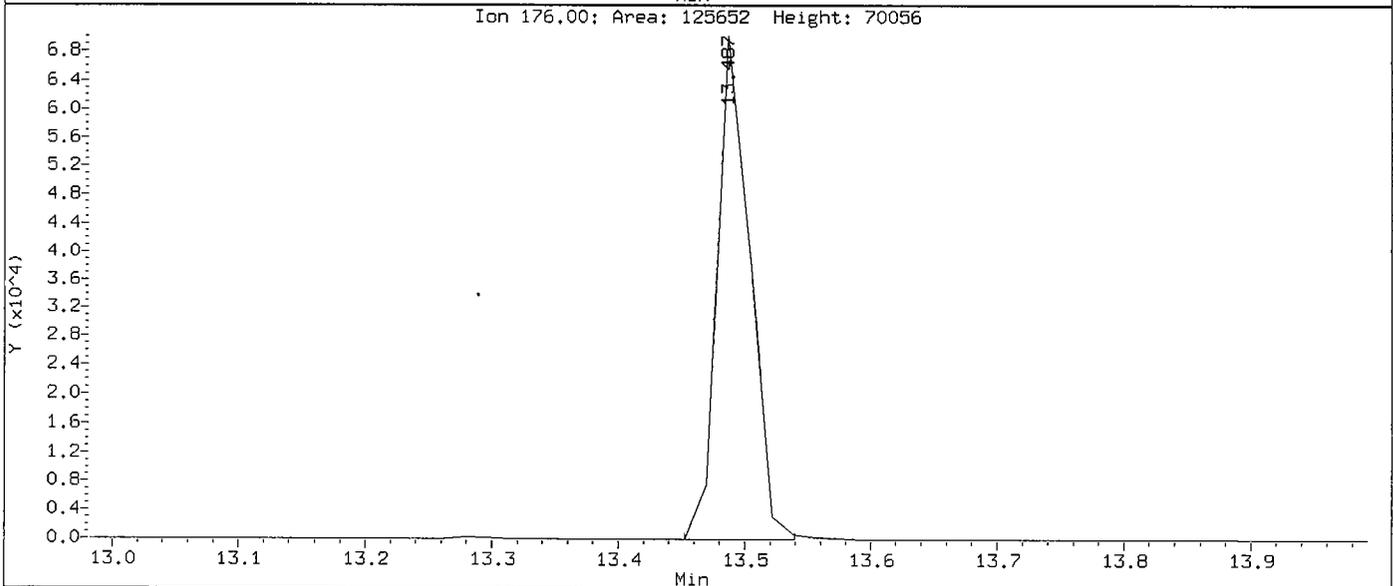
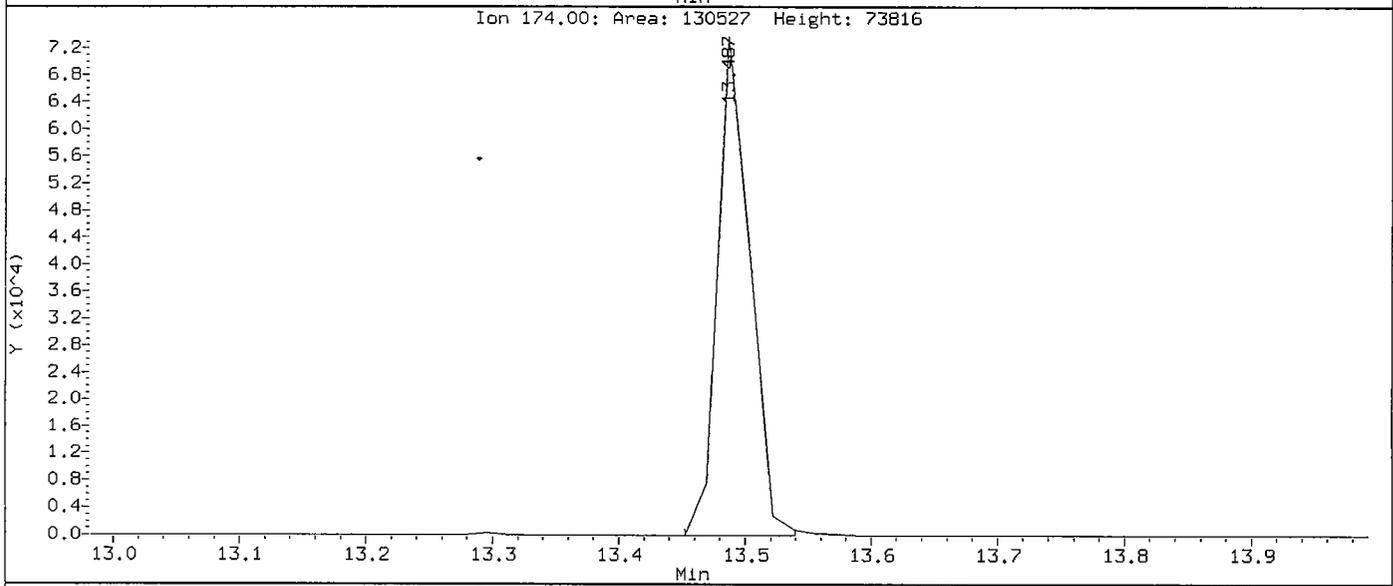
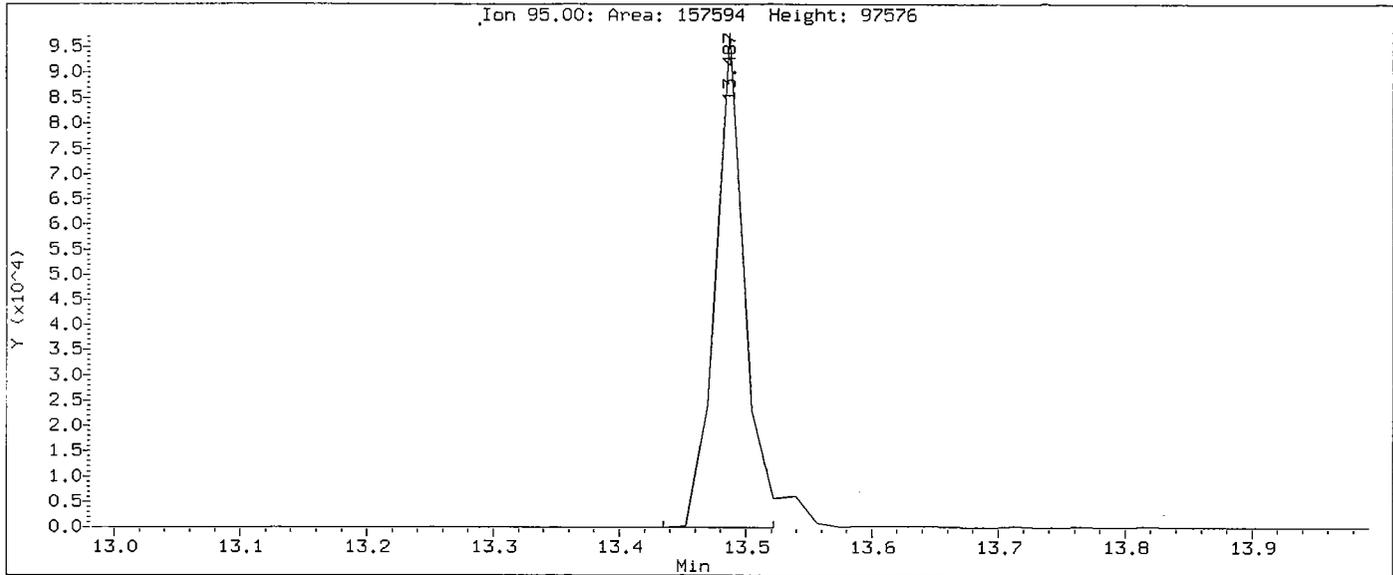
| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|--------------------------------|-----------|--------|--------|---------|----------------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 79 1,2,3-Trichloropropane | 110 | 13.609 | 13.609 | (1.076) | 18062 | 124.954 | 5.0 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.557 | 13.557 | (1.072) | 62067 | 467.350 | 19 |
| 90 1,3-Dichlorobenzene | 146 | 14.358 | 14.358 | (0.998) | 287174 | 124.306 | 5.0 |
| 91 1,4-Dichlorobenzene | 146 | 14.410 | 14.410 | (1.001) | 258634 | 110.345 | 4.4 |
| 93 1,2-Dichlorobenzene | 146 | 14.741 | 14.741 | (1.024) | 220220 | 121.459 | 4.9 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.291 | 16.290 | (1.132) | 138703 | 123.585 | 4.9 |
| 96 Hexachlorobutadiene | 225 | 16.412 | 16.412 | (1.140) | 102249 | 150.704 | 6.0 |
| 97 Naphthalene | 128 | 16.604 | 16.586 | (1.154) | 144891 | 113.742 | 4.5 |
| M 100 Xylene (total) | 106 | | | | 720471 | 425.262 | 17 |

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/5972hp73.i/DF090320A73_REG.b/9032016-B5173_d.d
Injection Date: 20-MAR-2009 17:08
Instrument: 5972hp73.i
Client Sample ID: VHELCS

Compound: Bromofluorobenzene
CAS Number: 460-00-4



d. Matrix Spike Data

- Tabulated Results (Form I VOA)
- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MS

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-MS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-MS173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.6 | |
| 74-87-3 | Chloromethane | 5.9 | |
| 75-01-4 | Vinyl Chloride | 6.3 | |
| 74-83-9 | Bromomethane | 5.9 | |
| 75-00-3 | Chloroethane | 8.0 | |
| 75-69-4 | Trichlorofluoromethane | 6.4 | |
| 107-02-8 | Acrolein | 39 | |
| 75-35-4 | 1,1-Dichloroethene | 5.6 | |
| 74-88-4 | Iodomethane | 5.3 | |
| 75-15-0 | Carbon disulfide | 6.1 | |
| 67-64-1 | Acetone | 20 | B |
| 107-05-1 | 3-Chloropropene | 4.3 | |
| 75-05-8 | Acetonitrile | 4.3 | |
| 75-09-2 | Methylene Chloride | 6.0 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 6.4 | |
| 107-13-1 | Acrylonitrile | 50 | |
| 75-34-3 | 1,1-Dichloroethane | 13 | |
| 108-05-4 | Vinyl acetate | 9.8 | |
| 594-20-7 | 2,2-Dichloropropane | 5.6 | |
| 156-59-2 | cis-1,2-Dichloroethene | 29 | E |
| 78-93-3 | 2-butanone | 21 | |
| 107-12-0 | Propionitrile | 250 | |
| 74-97-5 | Bromochloromethane | 6.4 | |
| 126-98-7 | Methacrylonitrile | 45 | |
| 67-66-3 | Chloroform | 6.1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.9 | |
| 56-23-5 | Carbon Tetrachloride | 5.9 | |
| 563-58-6 | 1,1-dichloropropene | 5.5 | |
| 71-43-2 | Benzene | 5.8 | |
| 107-06-2 | 1,2-Dichloroethane | 5.8 | |
| 78-83-1 | Isobutyl alcohol | 200 | |
| 79-01-6 | Trichloroethene | 8.3 | |
| 78-87-5 | 1,2-Dichloropropane | 6.1 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|--------|
| MW-3MS |
|--------|

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-MS1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-MS173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

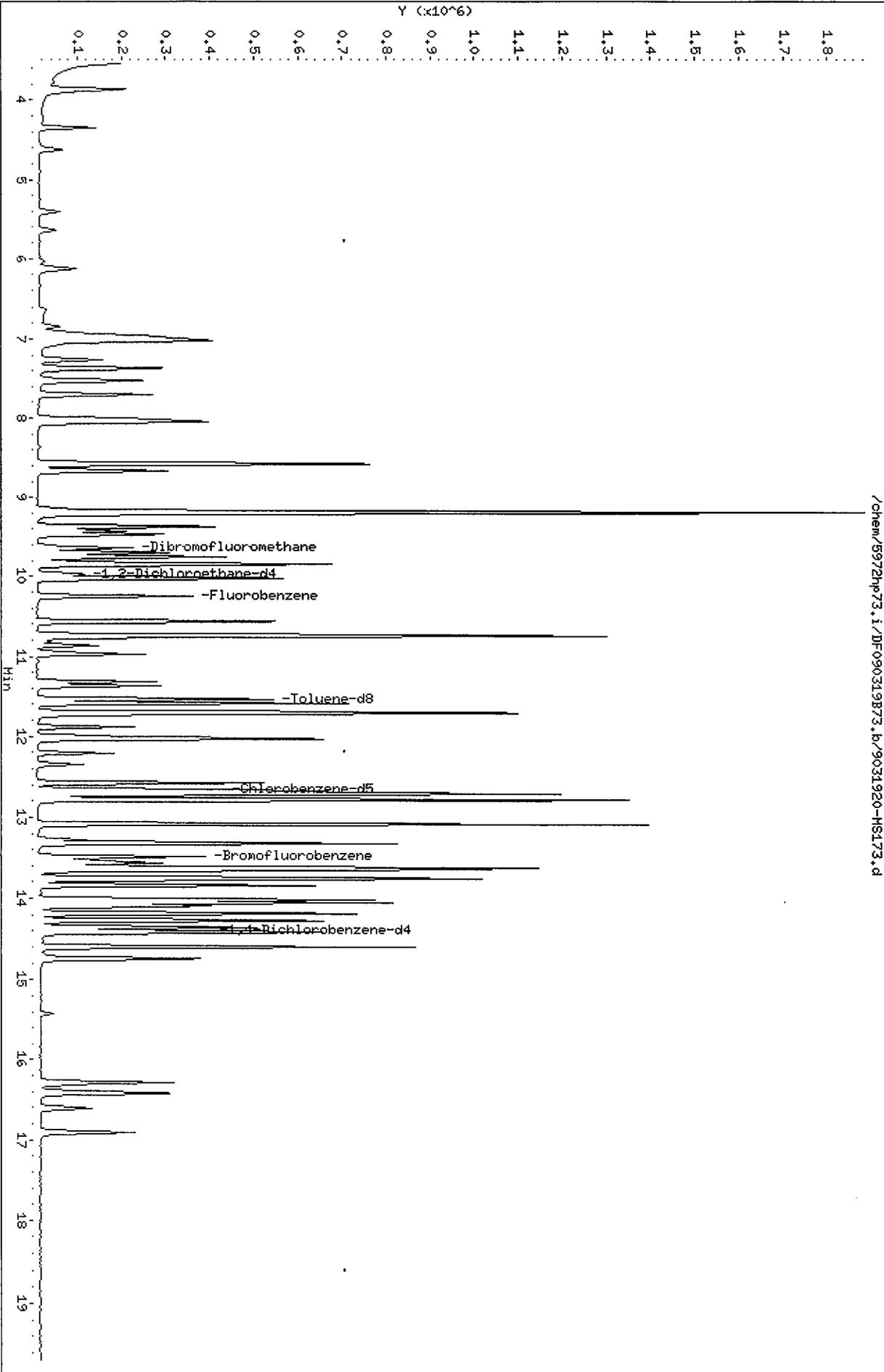
Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.5 | |
| 80-62-6 | Methylmethacrylate | 53 | |
| 75-27-4 | Bromodichloromethane | 5.6 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 5.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.6 | |
| 97-63-2 | Ethylmethacrylate | 50 | |
| 127-18-4 | Tetrachloroethene | 6.4 | |
| 142-28-9 | 1,3-Dichloropropane | 5.2 | |
| 591-78-6 | 2-hexanone | 18 | |
| 124-48-1 | Dibromochloromethane | 5.5 | |
| 108-90-7 | Chlorobenzene | 5.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.7 | |
| 100-41-4 | Ethylbenzene | 5.2 | |
| 108-38-3 | m,p-Xylene | 11 | |
| 95-47-6 | o-Xylene | 5.3 | |
| 100-42-5 | Styrene | 5.1 | |
| 75-25-2 | Bromoform | 5.6 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.7 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 17 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.9 | |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.3 | |
| 87-68-3 | Hexachlorobutadiene | 5.3 | |
| 91-20-3 | Naphthalene | 3.5 | B |
| 1330-20-7 | Xylene (total) | 17 | |
| 126-99-8 | Chloroprene | 4.7 | |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/9031920-HS173.d
Date: 20-MAR-2009 01:25
Client ID: MW-3MS
Sample Info: 9031920-HS1:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5972hp73.i/DF090319B73.b/9031920-MS173.d
 Report Date: 26-Mar-2009 09:01

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/9031920-MS173.d
 Lab Smp Id: 9031920-MS1 Client Smp ID: MW-3MS
 Inj Date : 20-MAR-2009 01:25
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 9031920-MS1:TD
 Misc Info : MW-3MS
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 9 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-----------|------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | '96 | | 10.251 | 10.253 | (1.000) | 313046 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | 12.653 | 12.656 | (1.000) | 230843 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 14.395 | 14.397 | (1.000) | 117184 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | 9.624 | 9.626 | (0.939) | 137566 | 137.140 | 5.5 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | 9.972 | 9.957 | (0.973) | 80826 | 119.640 | 4.8 |
| \$ 6 Toluene-d8 | 98 | | 11.539 | 11.542 | (0.912) | 422828 | 108.325 | 4.3 |
| \$ 7 Bromofluorobenzene | 95 | | 13.489 | 13.492 | (0.937) | 138616 | 87.8214 | 3.5 |
| 8 Dichlorodifluoromethane | 85 | | 3.878 | 3.863 | (0.378) | 257698 | 140.592 | 5.6 |
| 9 Chloromethane | 50 | | 4.348 | 4.351 | (0.424) | 156677 | 148.072 | 5.9 |
| 10 Vinyl Chloride | 62 | | 4.627 | 4.612 | (0.451) | 78999 | 156.787 | 6.3 |
| 11 Bromomethane | 94 | | 5.410 | 5.413 | (0.528) | 40829 | 147.539 | 5.9 |
| 12 Chloroethane | 64 | | 5.636 | 5.639 | (0.550) | 40101 | 200.033 | 8.0(R) |
| 13 Trichlorofluoromethane | 101 | | 6.124 | 6.127 | (0.597) | 108014 | 160.772 | 6.4 |
| 14 Acrolein | 56 | | 6.855 | 6.858 | (0.669) | 49254 | 982.630 | 39 |
| 17 1,1-Dichloroethene | 96 | | 7.012 | 7.015 | (0.684) | 134744 | 139.581 | 5.6 |

pm
3-26-09

| Compounds | QUANT SIG | | | | CONCENTRATIONS | | |
|------------------------------|-----------|--------|--------|---------|----------------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.064 | 7.067 | (0.689) | 52124 | 487.773 | 20 |
| 19 Iodomethane | 142 | 7.256 | 7.258 | (0.708) | 187950 | 132.449 | 5.3 |
| 20 Carbon disulfide | 76 | 7.378 | 7.380 | (0.720) | 560248 | 151.408 | 6.1 |
| 22 3-Chloropropene | 39 | 7.534 | 7.537 | (0.735) | 114282 | 106.307 | 4.3 |
| 23 Acetonitrile | 41 | 7.534 | 7.537 | (0.735) | 172899 | 108.277 | 4.3 |
| 25 Methylene Chloride | 84 | 7.708 | 7.711 | (0.752) | 142348 | 150.728 | 6.0 |
| 26 Acrylonitrile | 53 | 8.004 | 8.007 | (0.781) | 133380 | 1245.87 | 50 |
| 28 trans-1,2-Dichloroethene | 96 | 8.057 | 8.059 | (0.786) | 171911 | 159.974 | 6.4 |
| 31 Vinyl acetate | 43 | 8.579 | 8.582 | (0.837) | 145145 | 244.311 | 9.8 |
| 32 1,1-Dichloroethane | 63 | 8.562 | 8.564 | (0.835) | 574983 | 322.401 | 13 (R) |
| 33 Chloroprene | 53 | 8.666 | 8.669 | (0.845) | 184868 | 116.951 | 4.7 |
| 34 2-butanone | 43 | 9.136 | 9.139 | (0.891) | 80848 | 515.188 | 21 |
| 35 2,2-Dichloropropane | 77 | 9.188 | 9.191 | (0.896) | 201599 | 140.050 | 5.6 |
| 36 cis-1,2-Dichloroethene | 96 | 9.188 | 9.191 | (0.896) | 734972 | 730.023 | 29 (AR) |
| 37 Propionitrile | 54 | 9.223 | 9.226 | (0.900) | 240602 | 6325.68 | 250 |
| 38 Methacrylonitrile | 41 | 9.380 | 9.365 | (0.915) | 243206 | 1120.46 | 45 |
| 39 Bromochloromethane | 128 | 9.432 | 9.435 | (0.920) | 58461 | 160.447 | 6.4 |
| 40 Chloroform | 83 | 9.467 | 9.470 | (0.924) | 250148 | 151.561 | 6.1 |
| 42 1,1,1-Trichloroethane | 97 | 9.693 | 9.696 | (0.946) | 216668 | 146.808 | 5.9 |
| 44 1,1-dichloropropene | 75 | 9.833 | 9.835 | (0.959) | 201432 | 136.409 | 5.5 |
| 45 Isobutyl alcohol | 43 | 9.798 | 9.801 | (0.956) | 70513 | 5110.50 | 200 |
| 46 Carbon Tetrachloride | 117 | 9.850 | 9.853 | (0.961) | 191082 | 147.202 | 5.9 |
| 47 Benzene | 78 | 10.024 | 10.009 | (0.978) | 522849 | 144.829 | 5.8 |
| 48 1,2-Dichloroethane | 62 | 10.024 | 10.027 | (0.978) | 107695 | 144.442 | 5.8 |
| 49 Trichloroethene | 130 | 10.581 | 10.584 | (1.032) | 229356 | 208.349 | 8.3 (R) |
| 51 1,2-Dichloropropane | 63 | 10.756 | 10.758 | (1.049) | 122922 | 152.270 | 6.1 |
| 52 Methylmethacrylate | 69 | 10.756 | 10.758 | (1.049) | 350907 | 1325.87 | 53 |
| 54 Dibromomethane | 174 | 10.877 | 10.880 | (1.061) | 56117 | 161.737 | 6.5 |
| 55 Bromodichloromethane | 83 | 10.965 | 10.967 | (1.070) | 151819 | 139.811 | 5.6 |
| 57 cis-1,3-Dichloropropene | 75 | 11.313 | 11.315 | (1.104) | 145524 | 125.729 | 5.0 |
| 58 4-Methyl-2-pentanone | 43 | 11.365 | 11.368 | (0.898) | 194802 | 485.594 | 19 |
| 59 Toluene | 92 | 11.591 | 11.594 | (0.916) | 325237 | 128.842 | 5.2 |
| 60 Ethylmethacrylate | 69 | 11.713 | 11.698 | (0.926) | 719167 | 1241.55 | 50 |
| 61 trans-1,3-Dichloropropene | 75 | 11.731 | 11.733 | (0.927) | 123082 | 124.619 | 5.0 |
| 62 1,1,2-Trichloroethane | 97 | 11.887 | 11.890 | (0.939) | 69129 | 139.684 | 5.6 |
| 63 2-hexanone | 43 | 11.992 | 11.995 | (0.948) | 123075 | 439.634 | 18 |
| 64 1,3-Dichloropropane | 76 | 12.027 | 12.029 | (0.950) | 113534 | 129.591 | 5.2 |
| 65 Tetrachloroethene | 164 | 12.044 | 12.047 | (0.952) | 154209 | 160.891 | 6.4 |
| 66 Dibromochloromethane | 129 | 12.218 | 12.221 | (0.966) | 96937 | 137.227 | 5.5 |
| 69 Chlorobenzene | 112 | 12.688 | 12.674 | (1.003) | 348446 | 137.324 | 5.5 |
| 70 Ethylbenzene | 106 | 12.706 | 12.708 | (1.004) | 193125 | 130.797 | 5.2 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.723 | 12.726 | (1.006) | 125320 | 141.727 | 5.7 |
| 72 m,p-Xylene | 106 | 12.775 | 12.778 | (1.010) | 474303 | 267.898 | 11 |
| 73 o-Xylene | 106 | 13.089 | 13.091 | (1.034) | 223949 | 133.390 | 5.3 |
| 74 Styrene | 104 | 13.089 | 13.091 | (1.034) | 334562 | 128.073 | 5.1 |
| 75 Bromoform | 173 | 13.280 | 13.283 | (1.050) | 52176 | 140.829 | 5.6 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.542 | 13.544 | (0.941) | 77564 | 115.618 | 4.6 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | 13.611 | 13.614 | (1.076) | 18875 | 141.441 | 5.7 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.576 | 13.562 | (1.073) | 60408 | 428.318 | 17 |
| 90 1,3-Dichlorobenzene | 146 | 14.360 | 14.363 | (0.998) | 284950 | 124.815 | 5.0 |
| 91 1,4-Dichlorobenzene | 146 | 14.430 | 14.432 | (1.002) | 275905 | 121.990 | 4.9 |
| 93 1,2-Dichlorobenzene | 146 | 14.760 | 14.746 | (1.025) | 222241 | 124.668 | 5.0 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.293 | 16.295 | (1.132) | 135092 | 107.933 | 4.3 |
| 96 Hexachlorobutadiene | 225 | 16.415 | 16.417 | (1.140) | 94933 | 133.716 | 5.3 |
| 97 Naphthalene | 128 | 16.606 | 16.609 | (1.154) | 139848 | 88.0301 | 3.5 |
| M 100 Xylene (total) | 106 | | | | 698252 | 415.898 | 17 |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

e. Matrix Spike Duplicate Data

- Tabulated Results (Form I VOA)
- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MSD

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903084

Matrix: (soil/water) WATER

Lab Sample ID: 9031920-MSD1

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 9031920-MSD173

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|----------|--------------------------|--|---|
| 75-71-8 | Dichlorodifluoromethane | 5.5 | |
| 74-87-3 | Chloromethane | 5.4 | |
| 75-01-4 | Vinyl Chloride | 6.1 | |
| 74-83-9 | Bromomethane | 6.1 | |
| 75-00-3 | Chloroethane | 7.8 | |
| 75-69-4 | Trichlorofluoromethane | 6.0 | |
| 107-02-8 | Acrolein | 39 | |
| 75-35-4 | 1,1-Dichloroethene | 5.5 | |
| 74-88-4 | Iodomethane | 5.3 | |
| 75-15-0 | Carbon disulfide | 5.7 | |
| 67-64-1 | Acetone | 19 | B |
| 107-05-1 | 3-Chloropropene | 4.2 | |
| 75-05-8 | Acetonitrile | 4.2 | |
| 75-09-2 | Methylene Chloride | 5.9 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 6.3 | |
| 107-13-1 | Acrylonitrile | 48 | |
| 75-34-3 | 1,1-Dichloroethane | 12 | |
| 108-05-4 | Vinyl acetate | 8.9 | |
| 594-20-7 | 2,2-Dichloropropane | 5.3 | |
| 156-59-2 | cis-1,2-Dichloroethene | 28 | E |
| 78-93-3 | 2-butanone | 20 | |
| 107-12-0 | Propionitrile | 250 | |
| 74-97-5 | Bromochloromethane | 6.1 | |
| 126-98-7 | Methacrylonitrile | 44 | |
| 67-66-3 | Chloroform | 5.7 | |
| 71-55-6 | 1,1,1-Trichloroethane | 5.5 | |
| 56-23-5 | Carbon Tetrachloride | 5.7 | |
| 563-58-6 | 1,1-dichloropropene | 5.1 | |
| 71-43-2 | Benzene | 5.7 | |
| 107-06-2 | 1,2-Dichloroethane | 5.5 | |
| 78-83-1 | Isobutyl alcohol | 190 | |
| 79-01-6 | Trichloroethene | 8.3 | |
| 78-87-5 | 1,2-Dichloropropane | 5.9 | |

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3MSD

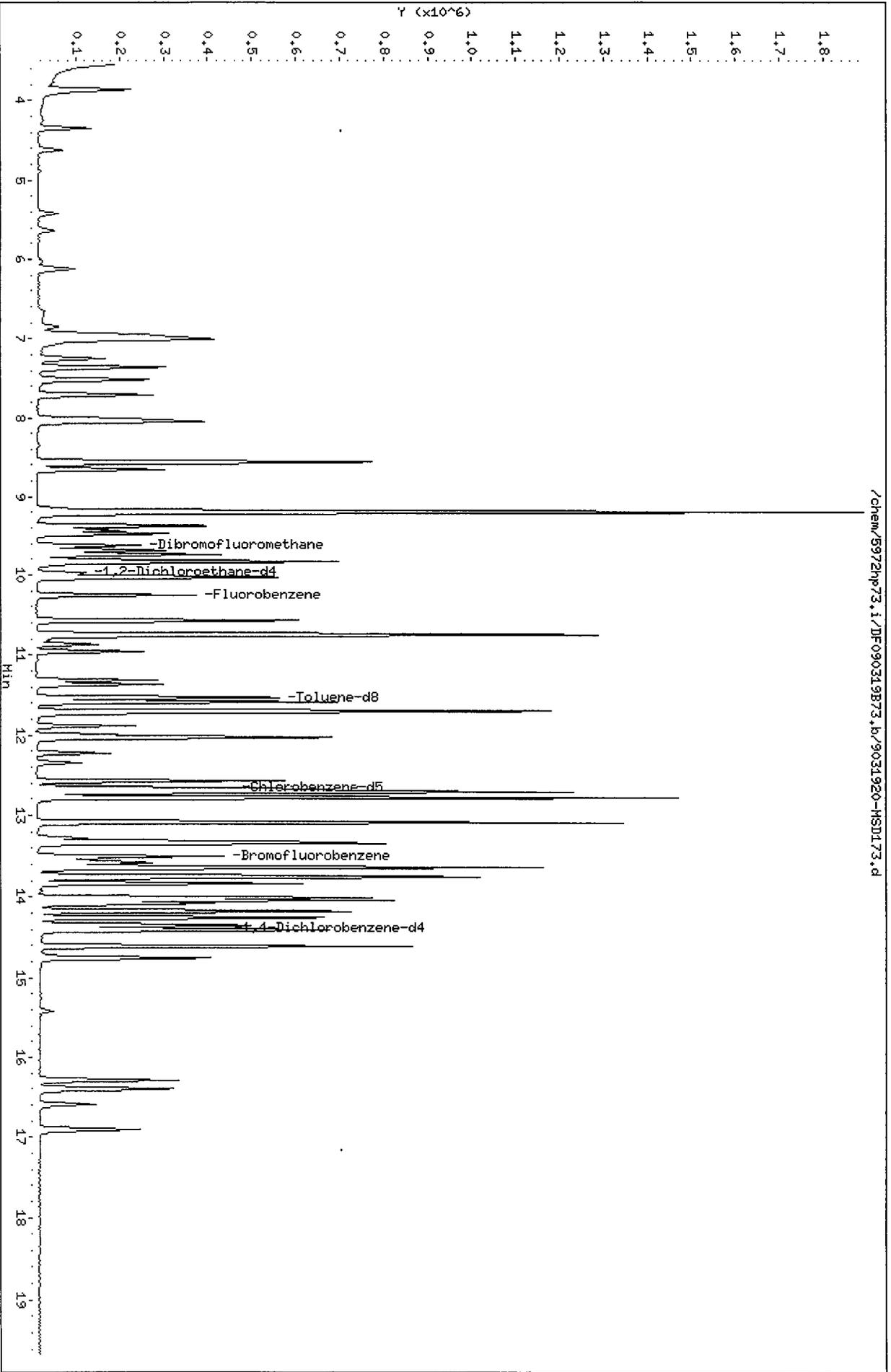
Lab Name: COMPUCHEM Method: 8260B
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903084
 Matrix: (soil/water) WATER Lab Sample ID: 9031920-MSD1
 Sample wt/vol: 25 (g/ml) ML Lab File ID: 9031920-MSD173
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|-----------------------------|--|---|
| 74-95-3 | Dibromomethane | 6.7 | |
| 80-62-6 | Methylmethacrylate | 51 | |
| 75-27-4 | Bromodichloromethane | 5.4 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | |
| 108-88-3 | Toluene | 5.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5.5 | |
| 97-63-2 | Ethylmethacrylate | 50 | |
| 127-18-4 | Tetrachloroethene | 6.5 | |
| 142-28-9 | 1,3-Dichloropropane | 5.3 | |
| 591-78-6 | 2-hexanone | 19 | |
| 124-48-1 | Dibromochloromethane | 5.4 | |
| 108-90-7 | Chlorobenzene | 5.5 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5.8 | |
| 100-41-4 | Ethylbenzene | 5.2 | |
| 108-38-3 | m,p-Xylene | 11 | |
| 95-47-6 | o-Xylene | 5.2 | |
| 100-42-5 | Styrene | 5.2 | |
| 75-25-2 | Bromoform | 5.4 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.4 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.8 | |
| 110-57-6 | trans-1,4-dichloro-2-butene | 17 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5.1 | |
| 106-46-7 | 1,4-Dichlorobenzene | 4.8 | |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.5 | |
| 87-68-3 | Hexachlorobutadiene | 5.4 | |
| 91-20-3 | Naphthalene | 3.8 | B |
| 1330-20-7 | Xylene (total) | 16 | |
| 126-99-8 | Chloroprene | 4.5 | |

FORM I VOA

Data File: /chem/5972hp73.i/DF090319B73.b/9031920-HSD173.d
Date: 20-MAR-2009 01:55
Client ID: MW-3MSD
Sample Info: 9031920-HSD1:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: TD
Column diameter: 0.32



CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp73.i/DF090319B73.b/9031920-MSD173.d
 Lab Smp Id: 9031920-MSD1 Client Smp ID: MW-3MSD
 Inj Date : 20-MAR-2009 01:55
 Operator : TD Inst ID: 5972hp73.i
 Smp Info : 9031920-MSD1:TD
 Misc Info : MW-3MSD
 Comment :
 Method : /chem/5972hp73.i/DF090319B73.b/W8260-B-25MLv10.m
 Meth Date : 20-Mar-2009 18:40 walker Quant Type: ISTD
 Cal Date : 16-MAR-2009 12:53 Cal File: 9C16001-CAL3R73.d
 Als bottle: 10 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPS8970.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|----------|-----------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 25.00000 | volume of water |
| DF | 1.00000 | dilution factor |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|----------------------------|-------|-----|------|--------|--------|---------|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Fluorobenzene | 96 | | | 10.252 | 10.253 | (1.000) | 331743 | 125.000 | |
| * 2 Chlorobenzene-d5 | 117 | | | 12.655 | 12.656 | (1.000) | 236056 | 125.000 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | | 14.397 | 14.397 | (1.000) | 119509 | 125.000 | |
| \$ 4 Dibromofluoromethane | 113 | | | 9.626 | 9.626 | (0.939) | 147091 | 138.372 | 5.5 |
| \$ 5 1,2-Dichloroethane-d4 | 65 | | | 9.956 | 9.957 | (0.971) | 85685 | 119.684 | 4.8 |
| \$ 6 Toluene-d8 | 98 | | | 11.541 | 11.542 | (0.912) | 463683 | 116.169 | 4.6 |
| \$ 7 Bromofluorobenzene | 95 | | | 13.491 | 13.492 | (0.937) | 163056 | 101.296 | 4.1 |
| 8 Dichlorodifluoromethane | 85 | | | 3.862 | 3.863 | (0.377) | 264759 | 136.303 | 5.5 |
| 9 Chloromethane | 50 | | | 4.350 | 4.351 | (0.424) | 152325 | 135.845 | 5.4 |
| 10 Vinyl Chloride | 62 | | | 4.611 | 4.612 | (0.450) | 81859 | 153.307 | 6.1 |
| 11 Bromomethane | 94 | | | 5.412 | 5.413 | (0.528) | 44773 | 152.672 | 6.1 |
| 12 Chloroethane | 64 | | | 5.638 | 5.639 | (0.550) | 41365 | 194.709 | 7.8 (R) |
| 13 Trichlorofluoromethane | 101 | | | 6.126 | 6.127 | (0.597) | 107499 | 150.987 | 6.0 |
| 14 Acrolein | 56 | | | 6.857 | 6.858 | (0.669) | 52005 | 979.039 | 39 |
| 17 1,1-Dichloroethene | 96 | | | 7.014 | 7.015 | (0.684) | 141889 | 138.699 | 5.5 |

Handwritten: JM
3-26-09

| Compounds | QUANT SIG | | | CONCENTRATIONS | | |
|------------------------------|-----------|--------|----------------|----------------|-----------------|---------------|
| | MASS | RT | EXP RT REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 18 Acetone | 43 | 7.066 | 7.067 (0.689) | 54454 | 480.857 | 19 |
| 19 Iodomethane | 142 | 7.258 | 7.258 (0.708) | 200574 | 133.379 | 5.3 |
| 20 Carbon disulfide | 76 | 7.362 | 7.380 (0.718) | 561119 | 143.096 | 5.7 |
| 22 3-Chloropropene | 39 | 7.519 | 7.537 (0.733) | 118892 | 104.362 | 4.2 |
| 23 Acetonitrile | 41 | 7.519 | 7.537 (0.733) | 179200 | 105.898 | 4.2 |
| 25 Methylene Chloride | 84 | 7.710 | 7.711 (0.752) | 147713 | 147.594 | 5.9 |
| 26 Acrylonitrile | 53 | 8.006 | 8.007 (0.781) | 135472 | 1194.09 | 48 |
| 28 trans-1,2-Dichloroethene | 96 | 8.059 | 8.059 (0.786) | 178781 | 156.991 | 6.3 |
| 31 Vinyl acetate | 43 | 8.581 | 8.582 (0.837) | 140562 | 223.262 | 8.9 |
| 32 1,1-Dichloroethane | 63 | 8.564 | 8.564 (0.835) | 579589 | 306.668 | 12 (R) |
| 33 Chloroprene | 53 | 8.668 | 8.669 (0.845) | 188077 | 112.275 | 4.5 |
| 34 2-butanone | 43 | 9.138 | 9.139 (0.891) | 82846 | 498.166 | 20 |
| 35 2,2-Dichloropropane | 77 | 9.190 | 9.191 (0.896) | 200403 | 131.373 | 5.3 |
| 36 cis-1,2-Dichloroethene | 96 | 9.190 | 9.191 (0.896) | 745754 | 698.985 | 28 (AR) |
| 37 Propionitrile | 54 | 9.225 | 9.226 (0.900) | 248981 | 6177.04 | 250 |
| 38 Methacrylonitrile | 41 | 9.364 | 9.365 (0.913) | 250341 | 1088.33 | 44 |
| 39 Bromochloromethane | 128 | 9.434 | 9.435 (0.920) | 58572 | 151.692 | 6.1 |
| 40 Chloroform | 83 | 9.469 | 9.470 (0.924) | 250646 | 143.304 | 5.7 |
| 42 1,1,1-Trichloroethane | 97 | 9.695 | 9.696 (0.946) | 215872 | 138.025 | 5.5 |
| 44 1,1-dichloropropene | 75 | 9.835 | 9.835 (0.959) | 199732 | 127.635 | 5.1 |
| 45 Isobutyl alcohol | 43 | 9.800 | 9.801 (0.956) | 70367 | 4812.49 | 190 |
| 46 Carbon Tetrachloride | 117 | 9.852 | 9.853 (0.961) | 196051 | 142.518 | 5.7 |
| 47 Benzene | 78 | 10.009 | 10.009 (0.976) | 544708 | 142.380 | 5.7 |
| 48 1,2-Dichloroethane | 62 | 10.026 | 10.027 (0.978) | 108394 | 137.186 | 5.5 |
| 49 Trichloroethene | 130 | 10.583 | 10.584 (1.032) | 242365 | 207.758 | 8.3 (R) |
| 51 1,2-Dichloropropane | 63 | 10.757 | 10.758 (1.049) | 125342 | 146.517 | 5.9 |
| 52 Methylmethacrylate | 69 | 10.757 | 10.758 (1.049) | 360389 | 1284.95 | 51 |
| 54 Dibromomethane | 174 | 10.879 | 10.880 (1.061) | 61761 | 167.972 | 6.7 |
| 55 Bromodichloromethane | 83 | 10.966 | 10.967 (1.070) | 154562 | 134.315 | 5.4 |
| 57 cis-1,3-Dichloropropene | 75 | 11.315 | 11.315 (1.104) | 151999 | 123.922 | 5.0 |
| 58 4-Methyl-2-pentanone | 43 | 11.367 | 11.368 (0.898) | 197596 | 481.682 | 19 |
| 59 Toluene | 92 | 11.593 | 11.594 (0.916) | 327836 | 127.003 | 5.1 |
| 60 Ethylmethacrylate | 69 | 11.698 | 11.698 (0.924) | 743934 | 1255.95 | 50 |
| 61 trans-1,3-Dichloropropene | 75 | 11.733 | 11.733 (0.927) | 128132 | 126.867 | 5.1 |
| 62 1,1,2-Trichloroethane | 97 | 11.889 | 11.890 (0.939) | 69222 | 136.783 | 5.5 |
| 63 2-hexanone | 43 | 11.994 | 11.995 (0.948) | 135100 | 471.931 | 19 |
| 64 1,3-Dichloropropane | 76 | 12.029 | 12.029 (0.950) | 119276 | 133.139 | 5.3 |
| 65 Tetrachloroethene | 164 | 12.046 | 12.047 (0.952) | 158591 | 161.809 | 6.5 |
| 66 Dibromochloromethane | 129 | 12.220 | 12.221 (0.966) | 96689 | 133.854 | 5.4 |
| 69 Chlorobenzene | 112 | 12.673 | 12.674 (1.001) | 357092 | 137.624 | 5.5 |
| 70 Ethylbenzene | 106 | 12.708 | 12.708 (1.004) | 198106 | 131.208 | 5.2 |
| 71 1,1,1,2-Tetrachloroethane | 131 | 12.725 | 12.726 (1.006) | 130585 | 144.420 | 5.8 |
| 72 m,p-Xylene | 106 | 12.777 | 12.778 (1.010) | 482037 | 266.253 | 11 |
| 73 o-Xylene | 106 | 13.091 | 13.091 (1.034) | 224113 | 130.540 | 5.2 |
| 74 Styrene | 104 | 13.091 | 13.091 (1.034) | 344161 | 128.838 | 5.2 |
| 75 Bromoform | 173 | 13.282 | 13.283 (1.050) | 51155 | 135.024 | 5.4 |
| 77 1,1,2,2-Tetrachloroethane | 83 | 13.543 | 13.544 (0.941) | 81630 | 119.312 | 4.8 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|--------------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 79 1,2,3-Trichloropropane | 110 | 13.613 | 13.614 | (1.076) | 18274 | 133.913 | 5.4 |
| 78 trans-1,4-dichloro-2-butene | 53 | 13.578 | 13.562 | (1.073) | 61911 | 429.280 | 17 |
| 90 1,3-Dichlorobenzene | 146 | 14.362 | 14.363 | (0.998) | 298688 | 128.287 | 5.1 |
| 91 1,4-Dichlorobenzene | 146 | 14.431 | 14.432 | (1.002) | 276807 | 120.008 | 4.8 |
| 93 1,2-Dichlorobenzene | 146 | 14.762 | 14.746 | (1.025) | 227756 | 125.277 | 5.0 |
| 95 1,2,4-Trichlorobenzene | 180 | 16.295 | 16.295 | (1.132) | 144550 | 113.243 | 4.5 |
| 96 Hexachlorobutadiene | 225 | 16.416 | 16.417 | (1.140) | 97851 | 135.145 | 5.4 |
| 97 Naphthalene | 128 | 16.608 | 16.609 | (1.154) | 152975 | 94.4198 | 3.8 |
| M 100 Xylene (total) | 106 | | | | 706150 | 411.314 | 16 |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

SECTION 1.1

Volatiles Data Validation Forms GC/MS



Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

SW-846 METHOD 8260B VOLATILE ORGANIC DATA REVIEW SUMMARY

Draper Aden Associates performed a limited review of the analytical results for the March 11-12, 2009 groundwater monitoring event at the Watauga County Landfill, Facility ID 95-02. Draper Aden Associates collected groundwater samples from monitoring wells MW-2, MW-3, MW-8, MW-9, MW-12 and MW-17. Samples were analyzed for 62 volatile organic analytes by USEPA SW-846 Method 8260B/5030B using a 25 ml purge volume.

CompuChem (CompuChem), a Division of Liberty Analytical, of Cary, North Carolina, performed the GC/MS analysis. CompuChem submitted results to Draper Aden Associates in a final certificate of analysis, which included sample analytical results, as well as relevant documentation to validate and verify the results. The laboratory revised the deliverables package to include the method detection limit study.

The evaluation of CompuChem's compliance with Method 8260B and validation of the results was based on a limited review of the following items: QC deliverables package, QC history documentation, case narrative, technical holding time and preservation requirements, instrument performance (tune) check, instrument calibrations, blank analysis, surrogate spike recoveries, matrix spike and matrix spike duplicate (MS/MSD) analyses, laboratory control sample (LCS) data, and internal standard requirements. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met, unless noted below.

Method 8260B

The original certificate of analysis for Method 8260B was received on March 27, 2009. The final certificate of analysis was complete and no data was rejected. The data set demonstrated the laboratory's ability to achieve the reported limit of quantitation, as supported by the initial calibration data and laboratory method detection limit (MDL) study.

QC history documentation was provided. Instrument performance check (tuning) criteria, initial calibration, calibration verification, blanks, surrogates, MS/MSD, internal standard and LCS requirements were met, except where noted below. Deviations from specific QA/QC criteria that were identified during the data review process are summarized below.

Holding time requirements were met. Sample preservation criteria were met with the exception of acrolein. Acrolein analysis was performed on samples preserved at pH < 2 instead of pH 4-5 and all acrolein results were qualified as estimated.

Initial calibration criteria were met except for select analytes that exceeded initial calibration %RSD requirements. CompuChem presented the average %RSD for all target analytes (grand mean) present in the initial calibration standard to meet the <15% RSD criteria for a passing ICAL. Average response was utilized for quantitation. See attached table for sample results that were qualified as estimated due to the %RSD exceeding 15 and the use of the average response factor for quantitation. Continuing calibration verification criteria were met except for select analytes that exceeded the continuing calibration verification requirements (<25% RSD). See attached table for sample results that were qualified as estimated. The remaining calibration requirements were met.

Acetone was reported in the trip blank (2.7 µg/l) and in the method blanks (1.7-1.8 µg/l), methylene chloride was reported in the trip blank (0.54 µg/l) and in the method blanks (0.11-0.14 µg/l) and naphthalene was reported in the method blanks (0.15-0.22 µg/l). Detected results less than the LOQ or less than five times the blank contamination concentration for these three analytes were attributed to the laboratory contamination and validated as "U." Detected results for these three analytes greater than the LOQ, but less than five times the blank contamination were qualified as "UA" to note that the LOQ was estimated due to this QC deficiency. For these sample results, the sample LOQ was adjusted to the sample concentration. This applied to all reported acetone results and MW-12 for methylene chloride.

Samples MW-2 and MW-12 required dilutions and re-analysis to obtain the reported sample result for 1,1,1-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane (MW-2) and cis-1,2-dichloroethene (MW-12). Results were correctly reported.

Target analytes detected at or above the method detection limit and/or analytical data that required a data validation qualifier due to quality control deviations noted above are summarized on the attached table. Except where attributed to laboratory contamination as noted above, target analytes reported by the laboratory as detected less than the corresponding LOQs are validated and qualified as "J" to note that the reported concentration should be considered estimated.

Target analytes detected greater than the LOQ remain as reported by the laboratory, unless noted. Except where noted above, other sample results were validated and reported as "U" to note the target analyte was analyze for, but not detected at or above the LOQ. No results were rejected based on the data validation criteria.

SW-846 METHOD 8260B (GC/MS) VOLATILE ORGANIC DATA VALIDATION

Sample ID: MW-2, MW-3, MW-8, MW-9, MW-12, MW-17
QC Samples: MW-3 MS, MW-3 MSD, Trip Blank, Method Blanks, LCSs
Laboratory: CompuChem, a division of Liberty Analytical of Cary NC; SDG 0903084

Comment: Volatile organic analysis uses a purge and trap system to remove volatile organic target analytes from a 25 ml water sample (SW-846 5030B). Target analytes are separated and quantified using a capillary column gas chromatograph (GC)/mass spectrometer (MS).

A. QC DELIVERABLES PACKAGE:

1. Was the case narrative present/signed by a lab representative? YES NO
2. Was the Chain of Custody present/signed by a lab representative? YES NO
3. Were the sample results included for all sample locations? YES NO
4. Did the laboratory analyte list correspond to the project specific analyte list? YES NO
5. Were all analyte LOQs reported on sample summary sheets in agreement with the instrument specific MDL study? YES NO

Comments: QC deliverables package requirements were met.

B. QC HISTORY DOCUMENTATION CRITERIA:

1. Was an instrument specific MDL study provided, which included LOD and LOQ values for all target analytes? YES NO
2. Was the instrument calibration range specified? YES NO
3. Was analyst initial demonstration of proficiency data provided for each target analyte? YES NO

Comments: QC history documentation criteria were met.

C. TECHNICAL HOLDING TIME AND PRESERVATION CRITERIA:

1. Was the 14-day sample collection to analysis holding time met? YES NO
2. Were the samples received at $\leq 6^{\circ}\text{C}$ and zero headspace? YES NO
3. Was the pH of each sample adjusted to < 2 with HCl? YES NO
4. Was a separate sample aliquot adjusted with HCl to a pH between 4-5? (For analysis of acrolein only). YES NO

Comments: Technical holding time criteria were met. Sample preservation criteria were met. Acrolein analyses were performed on samples preserved at pH < 2 instead of pH 4-5. Acrolein results were qualified as estimated.

D. GC/MS INSTRUMENT PERFORMANCE (TUNING) CHECK CRITERIA:

- | | | |
|----|--|---|
| 1. | Was analysis of the instrument performance check solution performed at the beginning of each 12-hour period during which standards or samples were analyzed? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. | Was there documentation of the injection of 5-50 ng BFB? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | Were all ion abundance criteria met? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | Were calibration, blank, and sample analyses performed within 12 hours of tuning? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |

Comments: Instrument performance check criteria were met.

E. INITIAL GC/MS CALIBRATION CRITERIA:

SW-846 Criteria:

- | | | |
|-----|---|---|
| 1. | Was data randomly checked to ensure that the internal standard (IS) which was selected for target analyte RF calculation was the IS that had the closest retention time? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. | Were all target analytes included in the ICAL? (ICAL Summary) | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | Did all ICALs consist of a minimum of 5 calibration levels? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | Was the lowest concentration calibration standard at or below the associated MCL, regulatory compliance, or action limit? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. | Were any calibration levels removed from the curve that would negatively influence the data integrity? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 6. | Was the calibration curve developed using the same purge volume used for sample analysis? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. | Were 8260B SPCC criteria met? - chloromethane (0.100) - 1,1-dichloroethane (0.100) - bromoform (0.100) - 1,1,2,2-tetrachloroethane (0.300) - chlorobenzene (0.300) | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 8. | Were 8260B CCC criteria met? (%RSD ≤ 30%) - 1,1-dichloroethene - chloroform - 1,2-dichloropropane - toluene - ethylbenzene - vinyl chloride | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 9. | Was each target analyte %RSD ≤ 15% (excluding CCCs)? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 10. | Was the correlation coefficient >0.99 for target analytes with ≥15 % RSD? | See comment |

Method Validation Performance Criteria:

- | | | |
|----|--|-------------|
| 1. | Did target analytes and surrogates have % RSDs ≤ 15% and / or >0.99 correlation coefficient? | See comment |
|----|--|-------------|

(Evaluate RRFs < 0.05 for potential problems.)

Comments: CompuChem presented the average %RSD (grand mean) for all target analytes in the ICAL to meet the <15% RSD criteria for a passing ICAL. Average response was utilized for quantitation. For several analytes, the specific %RSDs exceeded 15% and results for these analytes were qualified as estimated. See attached table for sample results that were qualified as estimated. The remaining initial calibration criteria were met.

F. CALIBRATION VERIFICATION CRITERIA:

SW-846 Criteria:

1. Was a calibration verification (CV) analyzed at the beginning of each 12-hour period following the analysis of the instrument performance check and prior to analysis of the method blank and samples? The calibration verification may be part of the ICAL or analyzed independently during another 12-hour analysis period. YES NO
2. Were 8260B SPCC criteria met? YES NO
 - chloromethane (0.100)
 - 1,1-dichloroethane (0.100)
 - bromoform (0.100)
 - 1,1,2,2-tetrachloroethane (0.300)
 - chlorobenzene (0.300)
3. Were 8260B CCC criteria met? YES NO
(%Drift or % Difference (%D) within $\pm 20\%$)
 - 1,1-dichloroethene
 - chloroform
 - 1,2-dichloropropane
 - toluene
 - ethylbenzene
 - vinyl chloride

Method Validation Performance Criteria:

1. Did all target analytes and system monitoring analytes (surrogates) have the % D within $\pm 25.0\%$? YES NO
(Evaluate RRFs < 0.05 for potential problems.)
If "NO", list analytes that exceed these criteria: *See attached table.*

Draper Aden Associates Contractual Requirements:

1. Did all target analytes and system monitoring analytes (surrogates) have % Ds within $\pm 25.0\%$? YES NO
2. Three analytes may fail to meet maximum % D as long as the % D is w/in $\pm 40.0\%$. Did the CV meet this criteria? YES NO

Comments: For several analytes, the specific %Ds exceeded $\pm 25\%$ and results for these analytes were qualified as estimated. See attached table for sample results that were qualified as estimated. The remaining calibration verification criteria were met.

G. BLANK CRITERIA:

1. Was a method blank analyzed after the calibration standards, prior to sample analysis, and once for every 12 hour period beginning with the injection of BFB? YES NO
2. Was a trip blank analyzed with this sample batch? YES NO
3. Were the trip blanks and method blanks interference free? NA YES NO
4. List analytes detected in the blanks: *acetone, methylene chloride, naphthalene*
5. Was the level of blank contamination less than 5% of the MCL associated with the analyte? NA YES NO
6. Did any samples contain high concentrations of VOCs in excess of the linear range of the calibration curve? YES NO
7. Were one or more blanks analyzed following the high concentration sample to prevent cross contamination? YES NO

Comments: Acetone was reported in the trip blank (2.7 µg/l) and in the method blanks (1.7-1.8 µg/l), methylene chloride was reported in the trip blank (0.54 µg/l) and in the method blanks (0.11-0.14 µg/l), and naphthalene was reported in the method blanks (0.15-0.22 µg/l). Detected results less than the LOQ or less than five times the blank contamination concentration for these three analytes were attributed to the laboratory contamination and validated as "U." Detected results for these three analytes greater than the LOQ, but less than five times the blank contamination were qualified as "UA" to note that the LOQ was estimated due to this QC deficiency. This applied to all reported acetone results and MW-12 for methylene chloride. MW-2 and MW-12 were analyzed in dilution and blank criteria were met.

H. SURROGATE CRITERIA:

SW-846 Criteria:

1. Were the following surrogates used? YES NO
 - dibromofluoromethane (86%-118%)
 - 4-bromofluorobenzene (86%-115%)
 - toluene-d₈ (88%-110%)
 - 1,2-dichloroethane-d₄ (80%-120%)
2. Were recoveries within the specified ranges? YES NO
 If "NO", corrective action is required. Flagging of the data as estimated is not acceptable until corrective action has been attempted.
3. Were samples with surrogates outside the QC window reanalyzed as required? *See comment*

Comments: Surrogate recovery criteria were met.

I. MATRIX SPIKE, MATRIX SPIKE DUPLICATE CRITERIA:
 (MS/MSD Requirements - CLP Guidelines)

| <i>Analyte</i> | <i>% R Water</i> | <i>RPD Water</i> |
|--------------------|------------------|------------------|
| 1,1-dichloroethene | 61-145 | 14 |
| trichloroethene | 71-120 | 14 |
| benzene | 76-127 | 11 |
| toluene | 76-125 | 13 |
| chlorobenzene | 75-130 | 13 |

1. Was a matrix spike and matrix spike duplicate (MS/MSD) analyzed per sample batch or every 20 samples, whichever may occur first? YES NO
2. Did the MS/MSD spike contain additional target analytes? YES NO
3. Was the MS/MSD analyzed on the specific project matrix? YES NO
4. List matrix spike target analytes not within recovery ranges: NA YES NO
5. Was a LCS analyzed to address failed matrix spike criteria? NA YES NO
6. Did the LCS for the failed matrix spike analyte fall within the acceptable recovery ranges and was the problem identified as matrix interference? YES NO
7. Were any analytes flagged as estimated concentrations? YES NO
8. List analytes flagged as estimated concentrations: none

Comments MS/MSD recovery was met.

J. LABORATORY CONTROL SAMPLE (LCS) CRITERIA:

1. Was a LCS included in the sample analysis? YES NO
2. Did the LCS contain all required target analytes? YES NO
3. List the LCS analytes and the laboratory's acceptable recovery range. *See certificate of analysis, for most analytes*
4. List the LCS analytes which exceeded the acceptable recovery range. *None*

Comments: A LCS was analyzed each day of analysis. The LCS criteria were met.

K. INTERNAL STANDARDS CRITERIA:

1. Were the following internal standards used? YES NO
 - fluorobenzene
 - chlorobenzene-d₅
 - 1,4-dichlorobenzene-d₄
2. Were internal standard areas within - 50% to + 100% of the last calibration verification? YES NO
3. Were internal standard retention times within ± 30 seconds of the last calibration verification? YES NO

4. Were samples failing items 2. and/or 3. above reanalyzed as required by the method? NA YES NO

Comments: Internal standards criteria were met.

L. TARGET ANALYTE IDENTIFICATION:

1. Were the RRTs of the reported analytes within ± 0.06 RRT units of the standard RRT? YES NO
2. Check the sample spectra against the laboratory standard spectra to see that the following criteria were met:
- * Did characteristic ions maximize in the same scan or within one scan of each other?
 - * Were all characteristic ions present in the standard spectra present in the sample spectra for analytes detected above the LOQ?
 - * Were the relative intensities of the ions between standard and sample spectra within $\pm 30\%$?
3. Were all reported analytes confirmed? YES NO

Comments: Detected target analyte concentrations were generally consistent with previous sampling events.

M. TARGET ANALYTE QUANTITATION:

- * If the %RSD of an analyte was 15% or less, then the average relative response factor should have been used for quantitation.
- * If the %RSD of an analyte was greater than 15%, then the quantitation should be based on a calibration curve using the first or higher order regression fit of the five calibration points (6 calibration points for 2nd order).

1. List the analytes detected above the LOQ whose %RSD was >15%:
- a. Was the subsequent quantitation based on a linear regression fit? *NA*
 - b. Was the curve forced through the origin? *NA*
2. Did the initial analysis of any sample have a target analyte concentration that exceeded the initial calibration range? YES NO
- If so, was the sample reanalyzed at a higher dilution? YES NO
3. Were the analyte concentrations that were recorded on the raw sample quantitation reports accurately transferred to the sample summary sheets? YES NO

Comments: Samples MW-2 and MW-12 required dilutions and re-analysis to obtain the reported sample result.

N. LIBRARY SEARCHES:

Comments: Library searches were provided and reviewed.

O. CORRECTIVE ACTION TAKEN AND GENERAL COMMENTS:

Comments: The laboratory provided the MDL study as a revision. No other corrective action was taken.

P. TENTATIVELY IDENTIFIED PARAMETER NOTES:

Comments: No Tentatively Identified Compounds (TICs) were searched for in any of the samples.

Q. REFERENCES:

Draper Aden Associates conducted data validation of the above noted data set using summary tables and raw data provided by the analyzing laboratory. Data validation was conducted in general accordance with SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd edition - Final Update I, II/IIA and III) and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999) and where applicable with *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008)*. Validation of this data set is limited to the items detailed in this report.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Laboratory Results | | Validated Results | | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|---------|--------------------|--------|-------------------|-----|-----------------|----------|------------------|
| | Sample ID | (ug/L) | U | A J | | | |

Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC

Method: 8260B

| | | | | | | | |
|--------------------------|-------|--------|--------|-----|-----|-----|---|
| Acetone | MW-12 | 2.6 | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-12 | 5 | U | J | 5 | 1 | Analyte not detected. Sample pH < 2. |
| Benzene | MW-12 | 0.36 J | 0.36 J | | 0.5 | 1 | Result < LOQ. |
| Chlorobenzene | MW-12 | 0.35 J | 0.35 J | | 0.5 | 1 | Result < LOQ. |
| Chloroethane | MW-12 | 9.9 | 9.9 | | 0.5 | 1 | No action taken. |
| Chloroform | MW-12 | 0.65 | 0.65 | | 0.5 | 1 | No action taken. |
| 1,2-Dichlorobenzene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-12 | 2.7 | 2.7 J | | 0.5 | 1 | ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-12 | 25 | 25 | | 0.5 | 1 | No action taken. |
| 1,2-Dichloroethane | MW-12 | 0.65 | 0.65 | | 0.5 | 1 | No action taken. |
| 1,1-Dichloroethene | MW-12 | 0.32 J | 0.32 J | | 0.5 | 1 | Result < LOQ. |
| cis-1,2-Dichloroethene | MW-12 | 59 | 59 | | 0.5 | 4.2 | No action taken. Sample analyzed and reported in dilution |
| trans-1,2-Dichloroethene | MW-12 | 0.67 | 0.67 | | 0.5 | 1 | No action taken. |
| 1,2-Dichloropropane | MW-12 | 0.89 | 0.89 | | 0.5 | 1 | No action taken. |
| Ethylbenzene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D > +/-25% (40%). |
| 2-Hexanone | MW-12 | 2.5 U | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-34%). |
| 4-Methyl-2-pentanone | MW-12 | 2.5 U | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-30%). |
| Methylene chloride | MW-12 | 0.59 | U | A | 0.5 | 1 | Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. |
| Naphthalene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D > +/-25% (30%/-31%). |
| Styrene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-12 | 4.6 | 4.6 J | | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-12 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D > +/-25% (26%). |
| Trichloroethene | MW-12 | 5.1 | 5.1 J | | 0.5 | 1 | ICAL greater than 15% RSD (16%). |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.

U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.

Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory Results (ug/L) | Validated Results (ug/L) | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|---------|-----------|---------------------------|--------------------------|-----------------|----------|------------------|
|---------|-----------|---------------------------|--------------------------|-----------------|----------|------------------|

Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC

Method: 8260B

| | | | | | | |
|------------------------|-------|------|-----|-----|-----|---|
| Vinyl chloride | MW-12 | 2.9 | 2.9 | 0.5 | 1 | No action taken. |
| Xylenes (Total) | MW-12 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Method: 8260B | | | | | | |
| Acetone | MW-17 | 2.7 | U | AJ | 2.5 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-17 | 5 | U | J | 5 | Analyte not detected. Sample pH < 2. |
| 1,2-Dichlorobenzene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-17 | 2.3 | 2.3 | 0.5 | 1 | No action taken. |
| cis-1,2-Dichloroethene | MW-17 | 6.1 | 6.1 | 0.5 | 1 | No action taken. |
| Ethylbenzene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D > +/-25% (40%). |
| 2-Hexanone | MW-17 | 2.5 | U | J | 2.5 | Analyte not detected. CV %D > +/-25% (-34%). |
| 4-Methyl-2-pentanone | MW-17 | 2.5 | U | J | 2.5 | Analyte not detected. CV %D > +/-25% (-30%). |
| Methylene chloride | MW-17 | 0.16 | J | U | 0.5 | Result < LOQ. Blank contamination in the method blanks (0.1-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-17 | 0.2 | J | U | 0.5 | Result < LOQ. Blank contamination in the method blanks (0.15 -0.22 ug/l). ICAL greater than 15% RSD (25%). CV %D > +/-25% (30%/-31%). |
| Styrene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-17 | 4.2 | 4.2 | J | 0.5 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D > +/-25% (26%). |
| Trichloroethene | MW-17 | 1.1 | 1.1 | J | 0.5 | ICAL greater than 15% RSD (16%). |
| Xylenes (Total) | MW-17 | 0.5 | U | J | 0.5 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.

U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.

Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory Results | | Validated Results | | LOQ/CRQL (ug/L) | Dilution | Validation Notes | |
|------------------------|-----------|--------------------|-----|-------------------|---|-----------------|----------|------------------|---|
| | | (ug/L) | | (ug/L) | | | | | |
| Acetone | MW-2 | 3.4 | U | U | A | J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-2 | 5 | U | U | J | J | 5 | 1 | Analyte not detected. Sample pH < 2. |
| 1,2-Dichlorobenzene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-2 | 25 | 25 | | | | 0.5 | 12.5 | No action taken. Sample analyzed and reported in dilution. |
| 1,1-Dichloroethene | MW-2 | 46 | 46 | | | | 0.5 | 12.5 | No action taken. Sample analyzed and reported in dilution. |
| Ethylbenzene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D > +/-25% (40%). |
| 2-Hexanone | MW-2 | 2.5 | U | U | J | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-34%). |
| Chloromethane | MW-2 | 0.28 | J | 0.28 | J | J | 0.5 | 1 | Result < LOQ. |
| 4-Methyl-2-pentanone | MW-2 | 2.5 | U | U | J | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-30%). |
| Methylene chloride | MW-2 | 0.37 | J | U | | | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D > +/-25% (30%/-31%). |
| Styrene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-2 | 3.4 | U | U | J | J | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D > +/-25% (26%). |
| 1,1,1-Trichloroethane | MW-2 | 200 | 200 | | | | 0.5 | 12.5 | No action taken. Sample analyzed and reported in dilution. |
| Trichloroethene | MW-2 | 0.27 | J | 0.27 | J | J | 0.5 | 1 | Result < LOQ. ICAL greater than 15% RSD (16%). |
| Vinyl chloride | MW-2 | 0.19 | J | 0.19 | J | J | 0.5 | 1 | Result < LOQ. |
| Xylenes (Total) | MW-2 | 0.5 | U | U | J | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC

Method: 8260B

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.
 U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
 Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill Facility ID 95-02

Laboratory Validated

Analyte Sample ID Results (ug/L) Validated Results (ug/L) LOQ/CRQL (ug/L) Dilution Validation Notes

Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC

Method: 8260B

| | | | | | | | |
|--------------------------|------|------|-----|------|-----|---|---|
| Acetone | MW-3 | 2.5 | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-3 | 5 | U | J | 5 | 1 | Analyte not detected. Sample pH <2. |
| Chloroethane | MW-3 | 2.4 | 2.4 | | 0.5 | 1 | No action taken. |
| 1,2-Dichlorobenzene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-3 | 8.1 | 8.1 | | 0.5 | 1 | No action taken. |
| cis-1,2-Dichloroethene | MW-3 | 24 | 24 | | 0.5 | 1 | No action taken. |
| trans-1,2-Dichloroethene | MW-3 | 0.2 | J | 0.2 | 0.5 | 1 | Result < LOQ. |
| 1,2-Dichloropropane | MW-3 | 0.26 | J | 0.26 | 0.5 | 1 | Result < LOQ. |
| Ethylbenzene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D > +/-25% (40%). |
| 2-Hexanone | MW-3 | 2.5 | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-34%). |
| Chloromethane | MW-3 | 0.18 | J | 0.18 | 0.5 | 1 | Result < LOQ. |
| 4-Methyl-2-pentanone | MW-3 | 2.5 | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-30%). |
| Methylene chloride | MW-3 | 0.25 | J | 0.25 | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D > +/-25% (30%/-31%). |
| Styrene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-3 | 0.91 | J | 0.91 | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D > +/-25% (26%). |
| Trichloroethene | MW-3 | 2.5 | J | 2.5 | 0.5 | 1 | ICAL greater than 15% RSD (16%). |
| Trichlorofluoromethane | MW-3 | 0.11 | J | 0.11 | 0.5 | 1 | Result < LOQ. |
| Vinyl chloride | MW-3 | 0.14 | J | 0.14 | 0.5 | 1 | Result < LOQ. |
| Xylenes (Total) | MW-3 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.

U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.

Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill Facility ID 95-02



Engineering • Surveying • Environmental Services

| Analyte | Sample ID | Laboratory Results | | Validated Results (ug/L) | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|---------|-----------|--------------------|--------|--------------------------|-----------------|----------|------------------|
| | | (ug/L) | (ug/L) | | | | |

Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC

Method: 8260B

| | | | | | | | |
|------------------------|------|------|---|------|-----|---|---|
| Acetone | MW-8 | 2.7 | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-8 | 5 | U | J | 5 | 1 | Analyte not detected. Sample pH < 2. |
| 1,2-Dichlorobenzene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). |
| 1,1-Dichloroethane | MW-8 | 0.19 | J | 0.19 | J | 1 | Result < LOQ. |
| cis-1,2-Dichloroethene | MW-8 | 0.18 | J | 0.18 | J | 1 | Result < LOQ. |
| Ethylbenzene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D > +/-25% (40%). |
| 2-Hexanone | MW-8 | 2.5 | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-34%). |
| 4-Methyl-2-pentanone | MW-8 | 2.5 | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-30%). |
| Methylene chloride | MW-8 | 0.2 | J | U | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D > +/-25% (30%/-31%). |
| Styrene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| Toluene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D > +/-25% (26%). |
| Trichloroethene | MW-8 | 0.35 | J | 0.35 | J | 1 | Result < LOQ. ICAL greater than 15% RSD (16%). |
| Xylenes (Total) | MW-8 | 0.5 | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

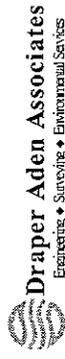
Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.

U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes an analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.

Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill Facility ID 95-02



Engineering • Surveying • Environmental Services

| Analyte | Laboratory Results | | Validated Results | | LOQ/CRQL (ug/L) | Dilution | Validation Notes |
|---------|--------------------|--------|-------------------|--------|-----------------|----------|------------------|
| | Sample ID | (ug/L) | Results | (ug/L) | | | |

Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC

Method: 8260B

| | | | | | | | |
|--------------------------|------|--------|------|-----|-----|---|---|
| Acetone | MW-9 | 2.6 | U | A J | 2.5 | 1 | Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%). |
| Acrolein | MW-9 | 5 | U | J | 5 | 1 | Analyte not detected. Sample pH < 2. |
| Benzene | MW-9 | 2.9 | 2.9 | J | 0.5 | 1 | No action taken. |
| Chlorobenzene | MW-9 | 0.43 J | 0.43 | J | 0.5 | 1 | Result < LOQ. |
| Chloroethane | MW-9 | 5.8 | 5.8 | J | 0.5 | 1 | No action taken. |
| 1,2-Dichlorobenzene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (21%). |
| 1,3-Dichlorobenzene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (23%). |
| 1,4-Dichlorobenzene | MW-9 | 1.4 | 1.4 | J | 0.5 | 1 | ICAL greater than 15% RSD (25%). |
| Dichlorodifluoromethane | MW-9 | 0.43 J | 0.43 | J | 0.5 | 1 | Result < LOQ. |
| 1,1-Dichloroethane | MW-9 | 15 | 15 | J | 0.5 | 1 | No action taken. |
| cis-1,2-Dichloroethene | MW-9 | 9.1 | 9.1 | J | 0.5 | 1 | No action taken. |
| trans-1,2-Dichloroethene | MW-9 | 0.32 J | 0.32 | J | 0.5 | 1 | Result < LOQ. |
| 1,2-Dichloropropane | MW-9 | 0.22 J | 0.22 | J | 0.5 | 1 | Result < LOQ. |
| Ethylbenzene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |
| Hexachlorobutadiene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (35%). CV %D > +/-25% (40%). |
| 2-Hexanone | MW-9 | 2.5 U | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-34%). |
| 4-Methyl-2-pentanone | MW-9 | 2.5 U | U | J | 2.5 | 1 | Analyte not detected. CV %D > +/-25% (-30%). |
| Methylene chloride | MW-9 | 0.38 J | U | J | 0.5 | 1 | Result < LOQ. Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). |
| Naphthalene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (25%). CV %D > +/-25% (30%/-31%). |
| Styrene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (17%). |
| Tetrachloroethene | MW-9 | 0.87 | 0.87 | J | 0.5 | 1 | ICAL greater than 15% RSD (21%). |
| Toluene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (16%). |
| 1,2,4-Trichlorobenzene | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (28%). CV %D > +/-25% (26%). |
| Trichloroethene | MW-9 | 1.4 | 1.4 | J | 0.5 | 1 | ICAL greater than 15% RSD (16%). |
| Vinyl chloride | MW-9 | 1.7 | 1.7 | J | 0.5 | 1 | No action taken. |
| Xylenes (Total) | MW-9 | 0.5 U | U | J | 0.5 | 1 | Analyte not detected. ICAL greater than 15% RSD (18%). |

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit.

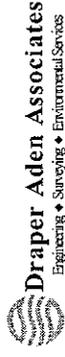
U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes a analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.

Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO W-use CRQL.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/13/2009

Watauga County Landfill

Facility ID 95-02



| Analyte | Sample ID | Laboratory Results | | Validated Results | | Dilution | Validation Notes |
|---------|-----------|--------------------|--------|-------------------|----------|----------|------------------|
| | | (ug/L) | (ug/L) | (ug/L) | LOG/CRQL | | |

Laboratory: *CompuChem, a Division of Liberty Analytical, Cary, NC*

Method: *OLM04.3*

Chloroethane S-2 6 J 6 J 10 1 Result < CRQL.

Method: *OLM04.3*

1,1-Dichloroethane S-4 4 J 4 J 10 1 Result < CRQL.

cis-1,2-Dichloroethene S-4 9 J 9 J 10 1 Result < CRQL.

Method: *8260B*

Acetone TRIP BLANK 2.7 U A J 2.5 1 Blank contamination in the method blanks (1.7-1.8 ug/l) and trip blank (2.7 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration. ICAL greater than 15% RSD (26%).

Methylene chloride TRIP BLANK 0.54 U A 0.5 1 Blank contamination in the method blanks (0.11-0.14 ug/l) and trip blank (0.54 ug/l). Result < 5x blank contamination. LOQ adjusted to sample result concentration.

Definitions: LOQ Denotes laboratory limit of quantitation. CRQL Denotes laboratory contract required quantitation limit. U Denotes analyte not detected above detection limit or LOQ/CRQL. J Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes a analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. B Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected. Target analytes not listed above were not detected at or above the laboratory detection limit, LOQ/CRQL and no data qualification was required. For method reference CLP SO-W-use CRQL.

SECTION 1.2

**Revisions to Original Data Set
GC/MS**



Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

CompuChem
Analyst Capability

| Laboratory Name/North Carolina Certificate Number: CompuChem/79 | | | | | | | | | | | | |
|---|-----------------|----------------|-----------------|-----------------|------------------|--------------|-------------|-------------|-----------------|----------|--------------|--|
| Analyst: Timothy Do/2660 | | | | | | | | | | | | |
| Study Date: July 13 & July 17, 2007 | | | | | | | | | | | | |
| Method: OLM04.3 water & soil; 8260B water & soil | | | | | | | | | | | | |
| Instrument: 5975hpms91 | | | | | | | | | | | | |
| Compound | TrueVal ug/L | VAJLCD ug/L | VAJLCSD ug/L | VBM LCS ug/L | VBM LCSD ug/L | Mean ug/L | Mean % R | SOP* % R | SD(n-1) ug/L | RSD % | SOP % RSD | |
| Chloromethane | 50 | 53 | 56 | 52 | 53 | 54 | 107 | | 1.6 | 3 | 20.5 | |
| Vinyl Chloride | 50 | 53 | 58 | 55 | 55 | 55 | 110 | | 1.9 | 3 | 20.5 | |
| Bromomethane | 50 | 51 | 56 | 50 | 51 | 52 | 104 | | 2.7 | 5 | 20.5 | |
| Chloroethane | 50 | 54 | 54 | 53 | 54 | 54 | 108 | | 0.3 | 1 | 20.5 | |
| Vinyl acetate | 50 | 54 | 53 | 51 | 48 | 52 | 103 | | 2.8 | 5 | 20.5 | |
| 1,1-Dichloroethane | 50 | 51 | 54 | 56 | 54 | 54 | 108 | 61-145 | 1.7 | 3 | 20.5 | |
| Acetone | 50 | 43 | 33 | 63 | 42 | 46 | 91 | | 12.7 | 28 | 20.5 | |
| Carbon Disulfide | 50 | 52 | 54 | 56 | 53 | 54 | 108 | | 1.6 | 3 | 20.5 | |
| Methylene Chloride | 50 | 49 | 51 | 53 | 51 | 51 | 102 | | 1.5 | 3 | 20.5 | |
| trans-1,2-Dichloroethene | 50 | 51 | 53 | 56 | 54 | 53 | 107 | | 2.2 | 4 | 20.5 | |
| 1,1-Dichloroethane | 50 | 50 | 52 | 56 | 53 | 53 | 106 | | 2.6 | 5 | 20.5 | |
| cis-1,2-Dichloroethene | 50 | 51 | 53 | 54 | 52 | 52 | 105 | | 1.3 | 2 | 20.5 | |
| 2-Butanone | 50 | 45 | 40 | 59 | 44 | 47 | 93 | | 8.3 | 18 | 20.5 | |
| Chloroform | 50 | 51 | 52 | 55 | 53 | 53 | 105 | | 1.9 | 4 | 20.5 | |
| 1,1,1-Trichloroethane | 50 | 50 | 54 | 55 | 53 | 53 | 106 | | 1.9 | 4 | 20.5 | |
| Carbon Tetrachloride | 50 | 50 | 53 | 55 | 54 | 53 | 107 | | 2.2 | 4 | 20.5 | |
| Benzene | 50 | 49 | 51 | 52 | 51 | 51 | 102 | 76-127 | 1.6 | 3 | 20.5 | |
| 1,2-Dichloroethane | 50 | 52 | 53 | 56 | 52 | 53 | 107 | | 1.9 | 4 | 20.5 | |
| Trichloroethene | 50 | 50 | 52 | 53 | 51 | 51 | 103 | 71-120 | 1.2 | 2 | 20.5 | |
| 1,2-Dichloropropane | 50 | 48 | 50 | 52 | 52 | 50 | 101 | | 1.8 | 4 | 20.5 | |
| Bromodichloromethane | 50 | 49 | 52 | 53 | 51 | 51 | 103 | | 1.8 | 4 | 20.5 | |
| cis-1,3-Dichloropropene | 50 | 48 | 52 | 51 | 49 | 50 | 100 | | 1.5 | 3 | 20.5 | |
| 4-Methyl-2-Pentanone | 50 | 47 | 52 | 54 | 49 | 50 | 101 | | 3.0 | 6 | 20.5 | |
| Toluene | 50 | 48 | 52 | 53 | 52 | 51 | 102 | 76-125 | 2.2 | 4 | 20.5 | |
| trans-1,3-Dichloropropene | 50 | 48 | 52 | 53 | 51 | 51 | 102 | | 1.9 | 4 | 20.5 | |
| 1,1,2-Trichloroethane | 50 | 49 | 51 | 52 | 50 | 51 | 101 | | 1.4 | 3 | 20.5 | |
| Tetrachloroethene | 50 | 51 | 53 | 56 | 52 | 53 | 106 | | 2.1 | 4 | 20.5 | |

Type I Data Package
for
Draper Aden Associates, Inc.

SDG# WAT09

Project: Watauga County, NC
Water Samples
Collected on 03/12/09

| GROUP | SAMPLE NUMBERS |
|---------|-----------------|
| 1136025 | 5621915-5621921 |

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Prepared by _____

A. Schwann

Reviewed by _____

Trace Adams

Date _____

4-8-09

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**Sample Reference List for SDG Number WAT09
with a Data Package Type of I
11200 - Draper Aden Associates, Inc.
Project: Watauga County, NC**

| Lab Sample Number | Lab Sample Code | Client Sample Description |
|----------------------------------|--------------------------------|--|
| 5621915 | 1WATA | RES-1 Grab Water Sample March 2009 Semiannual Assess. Monitoring Event |
| 5621916 | HWATA | H&G Produce Grab Water Sample March 2009 Semiannual Assess. Monitoring Event |
| 5621917 | 15WAT | RES-15 Grab Water Sample March 2009 Semiannual Assess. Monitoring Event |
| 5621918 | 16WAT | RES-16 Grab Water Sample March 2009 Semiannual Assess. Monitoring Event |
| 5621919 | BREWA | BREMCO Grab Water Sample March 2009 Semiannual Assess. Monitoring Event |
| 5621920 | RES02 | RES-2 Grab Water Sample March 2009 Semiannual Assess. Monitoring Event |
| 5621921 | TWATA | Trip Blank Water Sample March 2009 Semiannual Assess. Monitoring Event |

| TEST METHOD | PARAMETER/TEST DESCRIPTION | RESULT | ACCEPTANCE (M) | UNIT | DATE | TECH |
|-------------|----------------------------|--------|----------------|------|----------|------|
| 524.2 | Volatile Organics | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Dichlorodifluoromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Vinyl chloride | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromoethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Trichlorofluoromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1-Dichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Methylene chloride | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | trans-1,2-Dichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1-Dichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 2,2-Dichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | cis-1,2-Dichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromochloromethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chloroform | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,1-Trichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1-Dichloropropene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Carbon tetrachloride | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Benzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Trichloroethene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromoethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromochloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | cis-1,3-Dichloropropene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Toluene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | trans-1,3-Dichloropropene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,2-Trichloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Tetrachloroethene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,3-Dichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Dibromochloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2-Dibromoethane (EDB) | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Chlorobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,1,2-Tetrachloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Ethylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | m,p-Xylenes | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Xylenes (total) | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | o-Xylene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Styrene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromoform | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Isopropylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,1,2,2-Tetrachloroethane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | Bromobenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,2,3-Trichloropropane | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | n-Propylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 2-Chlorotoluene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 1,3,5-Trimethylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | 4-Chlorotoluene | ND | 0.5 | ug/L | 08/16/01 | jdj |
| | tert-Butylbenzene | ND | 0.5 | ug/L | 08/16/01 | jdj |

n Description = Dry Wgt.

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W 1/2

To: JCF
 Residuals for Lancaster
 Sample: 524.2
 OCF 3-15-05

WAT09: 8883

| TEST/METHOD | PARAMETER/TEST DESCRIPTION | NO. | RESULT | REPORTING UNIT | UNIT | DATE | TECH |
|-------------|-----------------------------|-----|--------|----------------|------|----------|------|
| | 1,2,4-Trimethylbenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | sec-Butylbenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | 1,3-Dichlorobenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | p-Isopropyltoluene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | 1,4-Dichlorobenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | n-Butylbenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | 1,2-Dichlorobenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | 1,2-Dibromo-3-chloropropane | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | 1,2,4-Trichlorobenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | Hexachlorobutadiene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | Naphthalene | ND | 0.5 | | ug/L | 08/16/01 | jdj |
| | 1,2,3-Trichlorobenzene | ND | 0.5 | | ug/L | 08/16/01 | jdj |

In Description = Dry Wgt.

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UAT89 8884

Environmental Sample Administration Receipt Documentation Log

Client/Project: Draper Area
 Date of Receipt: 3/13/09
 Time of Receipt: 9:10 9:00
 Source Code: 501 60-1
 Unpacker Emp. No.: 2316

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

| Temperature of Shipping Containers | | | | | | | |
|------------------------------------|----------------|------------------|---------------------------------------|--|------------------|--------------------------------|----------|
| Cooler # | Thermometer ID | Temperature (°C) | Temp Bottle (TB) or Surface Temp (ST) | Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP) | Ice Present? Y/N | Loose (L) Bagged Ice (B) or NA | Comments |
| 1 | D125173 | 3.10C | TB | WIS | Y | B | |
| 2 | / | | | | | | |
| 3 | / | | | | | | |
| 4 | / | | | | | | |
| 5 | / | | | | | | |
| 6 | / | | | | | | |

Number of Trip Blanks received NOT listed on chain of custody: 2 ① 6/23/10/09

Paperwork Discrepancy/Unpacking Problems:

-Received 4 Trip Blanks.

| Sample Administration Internal Chain of Custody | | | |
|---|----------------|-------------|--|
| Name | Date | Time | Reason for Transfer |
| <u>[Signature]</u> | <u>3/13/09</u> | <u>1620</u> | Unpacking <u>[Signature]</u> |
| <u>[Signature]</u> | <u>3/13/09</u> | <u>1639</u> | Place in Storage or <u>Entry</u> |
| | | | Entry WAT 89 8885 |
| | | | Entry |

03643 EPA Method 524.2

The water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: USEPA Method 524.2, Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry, Revision 4.1 1995.



ANALYTICAL RESULTS

Prepared for:

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

540-552-0444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1136025. Samples arrived at the laboratory on Friday, March 13, 2009.

| <u>Client Description</u> | <u>Lancaster Labs Number</u> |
|-------------------------------|------------------------------|
| RES-1 Grab Water Sample | 5621915 |
| H&G Produce Grab Water Sample | 5621916 |
| RES-15 Grab Water Sample | 5621917 |
| RES-16 Grab Water Sample | 5621918 |
| BREMCO Grab Water Sample | 5621919 |
| RES-2 Grab Water Sample | 5621920 |
| Trip Blank Water Sample | 5621921 |

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC Draper Aden Associates, Inc.
COPY TO
1 COPY TO Data Package Group

Attn: Janet Frazier

WATS 8887



Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Dorothy M. Love".

Dorothy M. Love
Group Leader

~~WAFB9 8888~~



Lancaster Laboratories Sample No. 5621915 PW Group No. 1136025

RES-1 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 14:15 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:24
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

1WATA SDG#: WAT09-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

~~WAT09-0109~~

*-This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. 5621915 PW Group No. 1136025

RES-1 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 14:15 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:24
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

1WATA SDG#: WAT09-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

~~WAT09 0018~~

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621915 PW Group No. 1136025

RES-1 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:15 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:24
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

1WATA SDG#: WAT09-01

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|---------------------------|-------------------|--------------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/19/2009 23:04 | Lauren C Marzario | 1 |

WAT09 0011

*=This limit was used in the evaluation of the final result

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621916 PW Group No. 1136025

H&G Produce Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

HWATA SDG#: WAT09-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

~~03/25/09 08:12~~

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621916 PW Group No. 1136025

H&G Produce Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 14:40 by CB Account Number: 11200

Submitted: 03/13/2009 09:00 Draper Aden Associates, Inc.
 Reported: 03/25/2009 at 13:25 2206 South Main Street
 Discard: 04/25/2009 Blacksburg VA 24060

HWATA SDG#: WAT09-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

WAT09 0813

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. 5621916 PW Group No. 1136025

H&G Produce Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

HWATA SDG#: WAT09-02

CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|---------------------------|-------------------|--------------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/19/2009 23:30 | Lauren C Marzario | 1 |

WAT09 8614

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621917 PW Group No. 1136025

RES-15 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 10:50 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

15WAT SDG#: WAT09-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

~~WATAUGA COUNTY~~

*=This limit was used in the evaluation of the final result

Lancaster Laboratories
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621917 PW Group No. 1136025

RES-15 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 10:50 by CB Account Number: 11200

Submitted: 03/13/2009 09:00 Draper Aden Associates, Inc.
 Reported: 03/25/2009 at 13:25 2206 South Main Street
 Discard: 04/25/2009 Blacksburg VA 24060

15WAT SDG#: WAT09-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received | As Received | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-------------|-----------------------|-------|-----------------|
| | | | | Method | Limit of Quantitation | | |
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | 0.1 J | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

WAT09 0016

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621917 PW Group No. 1136025

RES-15 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:50 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

15WAT SDG#: WAT09-03

| CAT | | Analysis | | | Dilution | |
|-------|------------------|--------------------|--------|------------------|-------------------|--------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/19/2009 23:57 | Lauren C Marzario | 1 |

WAT09 56217

*=This limit was used in the evaluation of the final result

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621918 PW Group No. 1136025

RES-16 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 10:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

16WAT SDG#: WAT09-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | 0.5 | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

~~40789 0010~~

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621918 PW Group No. 1136025

RES-16 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 10:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

16WAT SDG#: WAT09-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | 0.1 | J 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

~~WAT09 0019~~

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621918 PW Group No. 1136025

RES-16 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 10:40 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

16WAT SDG#: WAT09-04
CAT

| No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|-------|------------------|--------------------|--------|------------------------|-------------------|-----------------|
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 00:24 | Lauren C Marzario | 1 |

~~WAT09 0020~~

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621919 PW Group No. 1136025

BREMCO Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 13:55 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

BREWA SDG#: WAT09-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | 1.0 | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | 6.5 | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | 1.4 | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

~~03/25/09~~ 0321

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. 5621919 PW Group No. 1136025

BREMCO Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 13:55 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

BREWA SDG#: WAT09-05

| CAT No. | Analysis Name | CAS Number | As Received | | As Received | As Received | Units | Dilution Factor |
|---------|---------------------------|------------|-------------|---|-------------|-------------|-------|-----------------|
| | | | Result | | Method | Limit of | | |
| 03401 | Vinyl Chloride | 75-01-4 | 0.4 | J | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | 11 | | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | 1.5 | | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | 1.7 | | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | 0.2 | J | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | 33 | | 0.5 | 2.5 | ug/l | 5 |
| 03408 | Chloroform | 67-66-3 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | 0.6 | | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | 1 | | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | 0.2 | J | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | 0.4 | J | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | 0.2 | J | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

~~WAT09-0622~~

*=This limit was used in the evaluation of the final result

Lancaster Laboratories
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621919 PW Group No. 1136025

BREMCO Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 13:55 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

BREWA SDG#: WAT09-05

| CAT | | Analysis | | | Dilution | |
|-------|------------------|--------------------|--------|------------------|-------------------|--------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 00:51 | Lauren C Marzario | 1 |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 08:54 | Anita M Dale | 5 |

WAT09 0023

*=This limit was used in the evaluation of the final result

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621920 PW Group No. 1136025

RES-2 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 14:05 by CB Account Number: 11200

Submitted: 03/13/2009 09:00 Draper Aden Associates, Inc.
 Reported: 03/25/2009 at 13:25 2206 South Main Street
 Discard: 04/25/2009 Blacksburg VA 24060

RES02 SDG#: WAT09-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | 0.3 J | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | 0.1 J | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

~~44789~~ 0024

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621920 PW Group No. 1136025

RES-2 Grab Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 03/12/2009 14:05 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

RES02 SDG#: WAT09-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | 0.1 J | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | 0.5 J | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | N.D. | 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | 4.2 | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | 1.0 | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

~~WAT09 0025~~

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. 5621920 PW Group No. 1136025

RES-2 Grab Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 03/12/2009 14:05 by CB

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

RES02 SDG#: WAT09-06

| CAT | | Analysis | | | Dilution |
|-------|------------------|--------------------|--------|------------------|----------|
| No. | Analysis Name | Method | Trial# | Date and Time | Factor |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 01:17 | 1 |

WAT09-0626

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. 5621921 PW Group No. 1136025

Trip Blank Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 02/26/2009

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

TWATA SDG#: WAT09-07TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|-----------------------------|-------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03643 | EPA Method 524.2 | | | | | | |
| 00328 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00498 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00503 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00891 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00892 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00978 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00979 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00980 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00981 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00983 | m+p-Xylene | 179601-23-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00985 | o-Xylene | 95-47-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00986 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00987 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00988 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00989 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00990 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00991 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00992 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 00993 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00994 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00995 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00996 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00997 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00998 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 00999 | n-Butylbenzene | 104-51-8 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01000 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 01001 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.4 | 0.5 | ug/l | 1 |
| 01002 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01003 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01004 | Naphthalene | 91-20-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 01005 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03397 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03398 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03399 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03400 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | ug/l | 1 |

~~WAT09-07TB~~ 3827

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621921 PW Group No. 1136025

Trip Blank Water Sample
 March 2009 Semiannual Assess. Monitoring Event
 Watauga County Landfill

Collected: 02/26/2009

Account Number: 11200

Submitted: 03/13/2009 09:00
 Reported: 03/25/2009 at 13:25
 Discard: 04/25/2009

Draper Aden Associates, Inc.
 2206 South Main Street
 Blacksburg VA 24060

TWATA SDG#: WAT09-07TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Units | Dilution Factor |
|---------|---------------------------|------------|--------------------|-------------------------------------|-----------------------------------|-------|-----------------|
| 03401 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03402 | Chloroethane | 75-00-3 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03403 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03404 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03405 | Methylene Chloride | 75-09-2 | 0.3 | J 0.3 | 0.5 | ug/l | 1 |
| 03406 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03407 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03408 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03409 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03410 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03411 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03412 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03413 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03414 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03415 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03416 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03417 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03418 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03419 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03420 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03421 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03422 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |
| 03423 | Bromoform | 75-25-2 | N.D. | 0.2 | 0.5 | ug/l | 1 |
| 03424 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | ug/l | 1 |

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

WAT09 8028

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 5621921 PW Group No. 1136025

Trip Blank Water Sample
March 2009 Semiannual Assess. Monitoring Event
Watauga County Landfill

Collected: 02/26/2009

Account Number: 11200

Submitted: 03/13/2009 09:00
Reported: 03/25/2009 at 13:25
Discard: 04/25/2009

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

TWATA SDG#: WAT09-07TB*

| CAT | | Analysis | | | Dilution | |
|-------|------------------|--------------------|--------|------------------|-------------------|--------|
| No. | Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 03643 | EPA Method 524.2 | EPA 524.2 Rev. 4.1 | 1 | 03/20/2009 01:44 | Lauren C Marzario | 1 |

WAT09 0029

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Volatiles by GC/MS Data

**Case Narrative
Conformance/Nonconformance
Summary**

CASE NARRATIVE

Client: Draper Aden Associates, Inc.
SDG#: WAT09

LANCASTER LABORATORIES
VOLATILES BY GC/MS

SAMPLE NUMBERS:

| LL #'s | Sample Code | Matrix | | Comments |
|---------|-------------|--------|--|--------------|
| | | Water | | |
| 5621915 | 1WATA | X | | |
| 5621916 | HWATA | X | | |
| 5621917 | 15WAT | X | | |
| 5621918 | 16WAT | X | | |
| 5621919 | BREWA | X | | |
| 5621919 | BREWADL | X | | 5 X Dilution |
| 5621920 | RES02 | X | | |
| 5621921 | TWATA | X | | Client Blank |

LABORATORY SUBMITTED QC:

| | | | | |
|---------|----------|---|--|---------------------|
| VBLKS54 | VBLKS54 | X | | Method Blank |
| VBLKS55 | VBLKS55 | X | | Method Blank |
| 5624005 | 110IN | X | | Unspiked |
| 5624006 | 110INMS | X | | Matrix Spike |
| 5624007 | 110INMSD | X | | Matrix Spike Dup |
| LFBS54 | LFBS54 | X | | Lab Fortified Blank |
| LFBS55 | LFBS55 | X | | Lab Fortified Blank |

SAMPLE PREPARATION:

No sample preparation was necessary for the VOA fraction.

WAT09: 8832

ANALYSIS:

No problems were encountered during the analysis of these samples.

QUALITY CONTROL and NONCONFORMANCE SUMMARY:

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCD was performed, unless otherwise specified in the method or by the client.

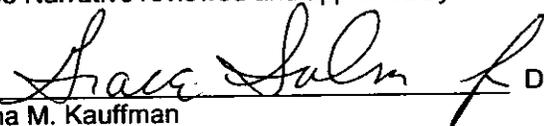
The percent recovery for chloromethane is outside QC limits in 5624006MS. The associated LCS/LCSD meets recovery criteria, indicating a matrix effect.

All other QC is within specifications.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Case Narrative reviewed and approved by:

 Date 4-8-09
Dana M. Kauffman
Manager, Data Deliverables

WATSON 8833

QC Summary

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS54

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: VBLKS54

Sample wt/vol: 25.00(g/mL) mL

Lab File ID: SH08359.i/09mar19a.b/sm19b01.d

Level: (low/med) LOW

Date Received:

Moisture: not dec. _____

Date Analyzed: 03/19/09

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) MDL ug/L Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) MDL ug/L | Q |
|------------|---------------------------|--------------------------|---|
| 75-71-8 | Dichlorodifluoromethane | 0.2 | U |
| 74-87-3 | Chloromethane | 0.2 | U |
| 75-01-4 | Vinyl Chloride | 0.1 | U |
| 74-83-9 | Bromomethane | 0.1 | U |
| 75-00-3 | Chloroethane | 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.1 | U |
| 75-09-2 | Methylene Chloride | 0.3 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.1 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.1 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.1 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.1 | U |
| 67-66-3 | Chloroform | 0.1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.1 | U |
| 56-23-5 | Carbon Tetrachloride | 0.1 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.1 | U |
| 71-43-2 | Benzene | 0.1 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.1 | U |
| 79-01-6 | Trichloroethene | 0.1 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.1 | U |
| 74-95-3 | Dibromomethane | 0.1 | U |
| 75-27-4 | Bromodichloromethane | 0.1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.1 | U |
| 108-88-3 | Toluene | 0.1 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.1 | U |
| 127-18-4 | Tetrachloroethene | 0.1 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.1 | U |
| 124-48-1 | Dibromochloromethane | 0.1 | U |

WAT89 8835

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS54

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: VBLKS54

Sample wt/vol: 25.00(g/mL) mL

Lab File ID: SH08359.i/09mar19a.b/sml19b01.d

Level: (low/med) LOW

Date Received:

Moisture: not dec. _____

Date Analyzed: 03/19/09

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/L Q

| | | | |
|-------------|-----------------------------|-----|---|
| 106-93-4 | 1,2-Dibromoethane | 0.1 | U |
| 108-90-7 | Chlorobenzene | 0.1 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.1 | U |
| 100-41-4 | Ethylbenzene | 0.1 | U |
| 179601-23-1 | m+p-Xylene | 0.2 | U |
| 95-47-6 | o-Xylene | 0.1 | U |
| 100-42-5 | Styrene | 0.1 | U |
| 75-25-2 | Bromoform | 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.1 | U |
| 108-86-1 | Bromobenzene | 0.1 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.1 | U |
| 95-49-8 | 2-Chlorotoluene | 0.1 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.1 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.1 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.1 | U |
| 135-98-8 | sec-Butylbenzene | 0.1 | U |
| 99-87-6 | p-Isopropyltoluene | 0.1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.1 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.1 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.2 | U |
| 91-20-3 | Naphthalene | 0.2 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.2 | U |

WAT89 8836

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS55

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: VBLKS55
 Sample wt/vol: 25.00(g/mL) mL Lab File ID: SH08359.i/09mar20a.b/sm20b01.d
 Level: (low/med) LOW Date Received: _____
 Moisture: not dec. _____ Date Analyzed: 03/20/09
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/L Q

| | | | |
|-----------|-----------------------------|-----|---|
| 75-71-8 | Dichlorodifluoromethane | 0.2 | U |
| 74-87-3 | Chloromethane | 0.2 | U |
| 75-01-4 | Vinyl Chloride | 0.1 | U |
| 74-83-9 | Bromomethane | 0.1 | U |
| 75-00-3 | Chloroethane | 0.2 | U |
| 75-43-4 | Dichlorofluoromethane | 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | U |
| 60-29-7 | Ethyl Ether | 0.2 | U |
| 107-02-8 | Acrolein | 15 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.1 | U |
| 76-13-1 | Freon 113 | 0.2 | U |
| 67-64-1 | Acetone | 3.0 | U |
| 74-88-4 | Methyl Iodide | 0.1 | U |
| 75-15-0 | Carbon Disulfide | 0.4 | U |
| 107-05-1 | Allyl Chloride | 0.1 | U |
| 75-09-2 | Methylene Chloride | 0.3 | U |
| 75-65-0 | t-Butyl Alcohol | 5.0 | U |
| 107-13-1 | Acrylonitrile | 2.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.1 | U |
| 1634-04-4 | Methyl Tertiary Butyl Ether | 0.1 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.1 | U |
| 108-20-3 | di-Isopropyl Ether | 0.1 | U |
| 637-92-3 | Ethyl t-Butyl Ether | 0.1 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.1 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | U |
| 78-93-3 | 2-Butanone | 2.0 | U |
| 107-12-0 | Propionitrile | 3.0 | U |
| 96-33-3 | Methyl Acrylate | 0.5 | U |
| 126-98-7 | Methacrylonitrile | 1.0 | U |
| 74-97-5 | Bromochloromethane | 0.1 | U |

WAT89 8837

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS55

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: VBLKS55

Sample wt/vol: 25.00(g/mL) mL

Lab File ID: SH08359.i/09mar20a.b/sm20b01.d

Level: (low/med) LOW

Date Received:

Moisture: not dec. _____

Date Analyzed: 03/20/09

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/L Q

| | | | |
|-----------------|---------------------------|-----|---|
| 109-99-9----- | Tetrahydrofuran | 2.0 | U |
| 67-66-3----- | Chloroform | 0.1 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 0.1 | U |
| 109-69-3----- | 1-Chlorobutane | 0.2 | U |
| 56-23-5----- | Carbon Tetrachloride | 0.1 | U |
| 563-58-6----- | 1,1-Dichloropropene | 0.1 | U |
| 71-43-2----- | Benzene | 0.1 | U |
| 107-06-2----- | 1,2-Dichloroethane | 0.1 | U |
| 994-05-8----- | t-Amyl Methyl Ether | 0.1 | U |
| 79-01-6----- | Trichloroethene | 0.1 | U |
| 78-87-5----- | 1,2-Dichloropropane | 0.1 | U |
| 80-62-6----- | Methyl Methacrylate | 0.2 | U |
| 74-95-3----- | Dibromomethane | 0.1 | U |
| 75-27-4----- | Bromodichloromethane | 0.1 | U |
| 79-46-9----- | 2-Nitropropane | 9.0 | U |
| 107-14-2----- | Chloroacetonitrile | 7.0 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 0.1 | U |
| 108-10-1----- | 4-Methyl-2-Pentanone | 0.6 | U |
| 513-88-2----- | 1,1-Dichloropropanone | 9.0 | U |
| 108-88-3----- | Toluene | 0.1 | U |
| 10061-02-6----- | trans-1,3-Dichloropropene | 0.1 | U |
| 97-63-2----- | Ethyl Methacrylate | 0.1 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 0.1 | U |
| 127-18-4----- | Tetrachloroethene | 0.1 | U |
| 142-28-9----- | 1,3-Dichloropropane | 0.1 | U |
| 591-78-6----- | 2-Hexanone | 0.6 | U |
| 124-48-1----- | Dibromochloromethane | 0.1 | U |
| 106-93-4----- | 1,2-Dibromoethane | 0.1 | U |
| 108-90-7----- | Chlorobenzene | 0.1 | U |
| 630-20-6----- | 1,1,1,2-Tetrachloroethane | 0.1 | U |

WAT89 8038

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS55

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: VBLKS55

Sample wt/vol: 25.00(g/mL) mL

Lab File ID: SH08359.i/09mar20a.b/sm20b01.d

Level: (low/med) LOW

Date Received:

Moisture: not dec. _____

Date Analyzed: 03/20/09

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) MDL ug/L Q

| | | | |
|------------------|-----------------------------|-----|---|
| 100-41-4----- | Ethylbenzene | 0.1 | U |
| 179601-23-1----- | m+p-Xylene | 0.2 | U |
| 95-47-6----- | o-Xylene | 0.1 | U |
| 100-42-5----- | Styrene | 0.1 | U |
| 75-25-2----- | Bromoform | 0.2 | U |
| 98-82-8----- | Isopropylbenzene | 0.1 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 0.1 | U |
| 108-86-1----- | Bromobenzene | 0.1 | U |
| 96-18-4----- | 1,2,3-Trichloropropane | 0.2 | U |
| 110-57-6----- | trans-1,4-Dichloro-2-Butene | 1.0 | U |
| 103-65-1----- | n-Propylbenzene | 0.1 | U |
| 95-49-8----- | 2-Chlorotoluene | 0.1 | U |
| 108-67-8----- | 1,3,5-Trimethylbenzene | 0.1 | U |
| 106-43-4----- | 4-Chlorotoluene | 0.2 | U |
| 98-06-6----- | tert-Butylbenzene | 0.1 | U |
| 76-01-7----- | Pentachloroethane | 0.1 | U |
| 95-63-6----- | 1,2,4-Trimethylbenzene | 0.1 | U |
| 135-98-8----- | sec-Butylbenzene | 0.1 | U |
| 99-87-6----- | p-Isopropyltoluene | 0.1 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 0.1 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 0.1 | U |
| 104-51-8----- | n-Butylbenzene | 0.2 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 0.1 | U |
| 67-72-1----- | Hexachloroethane | 0.1 | U |
| 96-12-8----- | 1,2-Dibromo-3-Chloropropane | 0.4 | U |
| 98-95-3----- | Nitrobenzene | 5.0 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 0.2 | U |
| 87-68-3----- | Hexachlorobutadiene | 0.2 | U |
| 91-20-3----- | Naphthalene | 0.2 | U |
| 87-61-6----- | 1,2,3-Trichlorobenzene | 0.2 | U |

WAT89 8839

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Lancaster Laboratories Contract:
 Lab Code: Case No.: SAS No.: SDG No.: WAT09

| | LL #'s | EPA SAMPLE NO. | S1 (BFB) # | S2 (DCB) # | TOT OUT |
|----|---------|-------------------|---------------|---------------|------------|
| 01 | 5621915 | 1WATA | 92 | 87 | 0 |
| 02 | 5621916 | HWATA | 92 | 88 | 0 |
| 03 | 5621917 | 15WAT | 99 | 93 | 0 |
| 04 | 5621918 | 16WAT | 96 | 91 | 0 |
| 05 | 5621919 | BREWA | 96 | 91 | 0 |
| 06 | 5621919 | BREWADL | 93 | 87 | 0 |
| 07 | 5621920 | RES02 | 93 | 89 | 0 |
| 08 | 5621921 | TWATA | 99 | 93 | 0 |
| 09 | VBLKS54 | VBLKS54 | 94 | 87 | 0 |
| 10 | VBLKS55 | VBLKS55 | 99 | 94 | 0 |
| 11 | 5624005 | 110IN | 98 | 89 | 0 |
| 12 | 5624006 | 110INMS | 103 | 107 | 0 |
| 13 | 5624007 | 110INMSD | 102 | 104 | 0 |
| 14 | LFBS54 | LFBS54 | 104 | 104 | 0 |
| 15 | LFBS55 | LFBS55 | 106 | 109 | 0 |

QC LIMITS

S1 (BFB) = 4-Bromofluorobenzene (80-120)
 S2 (DCB) = 1,2-Dichlorobenzene-d4 (80-120)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries

Unspiked: sm19s06.d
110IN 5624005
Method: EPA 524.2 REV 4
Instrument: SH08359

Matrix Spike: sm19s07.d
110INMS 5624006
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: sm19s08.d
110INMSD 5624007
Batch: S090781BA

| COMPOUND NAME | MS SPIKE | MSD SPIKE | US CONC UG/L | MS CONC UG/L | MSD CONC UG/L | MS REC % | MSD REC % | Range LOWER-UPPER | INSPEC | RPD % | RPD MAX |
|-----------------------------|----------|-----------|--------------|--------------|---------------|----------|-----------|-------------------|--------|-------|---------|
| Dichlorodifluoromethane | 2.00 | 2.00 | ND | 2.19 | 1.72 | 109 | 86 | 70-130 | YES | 24 | 30 |
| Chloromethane | 2.00 | 2.00 | ND | 2.63 | 2.04 | 132 | 102 | 70-130 | NO | 25 | 30 |
| Vinyl Chloride | 2.00 | 2.00 | ND | 2.11 | 1.74 | 106 | 87 | 70-130 | YES | 19 | 30 |
| Bromomethane | 2.00 | 2.00 | ND | 2.61 | 2.10 | 130 | 105 | 70-130 | YES | 22 | 30 |
| Chloroethane | 2.00 | 2.00 | ND | 2.38 | 1.91 | 119 | 95 | 70-130 | YES | 22 | 30 |
| Trichlorofluoromethane | 2.00 | 2.00 | ND | 2.39 | 1.95 | 120 | 98 | 70-130 | YES | 20 | 30 |
| 1,1-Dichloroethene | 5.00 | 5.00 | ND | 5.23 | 5.13 | 105 | 103 | 70-130 | YES | 2 | 30 |
| Methylene Chloride | 5.00 | 5.00 | ND | 6.03 | 5.81 | 121 | 116 | 70-130 | YES | 4 | 30 |
| trans-1,2-Dichloroethene | 5.00 | 5.00 | ND | 5.58 | 5.32 | 112 | 106 | 70-130 | YES | 5 | 30 |
| 1,1-Dichloroethane | 5.00 | 5.00 | ND | 5.24 | 5.12 | 105 | 102 | 70-130 | YES | 2 | 30 |
| cis-1,2-Dichloroethene | 5.00 | 5.00 | ND | 5.51 | 5.26 | 110 | 105 | 70-130 | YES | 5 | 30 |
| 2,2-Dichloropropane | 5.00 | 5.00 | ND | 5.73 | 5.35 | 115 | 107 | 70-130 | YES | 7 | 30 |
| Bromochloromethane | 5.00 | 5.00 | ND | 5.78 | 5.58 | 116 | 112 | 70-130 | YES | 3 | 30 |
| Chloroform | 5.00 | 5.00 | ND | 5.99 | 5.59 | 120 | 112 | 70-130 | YES | 7 | 30 |
| 1,1,1-Trichloroethane | 5.00 | 5.00 | ND | 5.85 | 5.50 | 117 | 110 | 70-130 | YES | 6 | 30 |
| Carbon Tetrachloride | 5.00 | 5.00 | ND | 6.24 | 5.82 | 125 | 116 | 70-130 | YES | 7 | 30 |
| 1,1-Dichloropropene | 5.00 | 5.00 | ND | 5.74 | 5.45 | 115 | 109 | 70-130 | YES | 5 | 30 |
| Benzene | 5.00 | 5.00 | ND | 5.86 | 5.57 | 117 | 111 | 70-130 | YES | 5 | 30 |
| 1,2-Dichloroethane | 5.00 | 5.00 | ND | 5.91 | 5.50 | 118 | 110 | 70-130 | YES | 7 | 30 |
| Trichloroethene | 5.00 | 5.00 | 0.33 | 6.04 | 5.64 | 114 | 106 | 70-130 | YES | 7 | 30 |
| 1,2-Dichloropropane | 5.00 | 5.00 | ND | 5.41 | 5.08 | 108 | 102 | 70-130 | YES | 6 | 30 |
| Dibromomethane | 5.00 | 5.00 | ND | 5.85 | 5.50 | 117 | 110 | 70-130 | YES | 6 | 30 |
| Bromodichloromethane | 5.00 | 5.00 | ND | 6.30 | 5.76 | 126 | 115 | 70-130 | YES | 9 | 30 |
| cis-1,3-Dichloropropene | 5.00 | 5.00 | ND | 5.74 | 5.37 | 115 | 107 | 70-130 | YES | 7 | 30 |
| Toluene | 5.00 | 5.00 | ND | 5.81 | 5.40 | 116 | 108 | 70-130 | YES | 7 | 30 |
| trans-1,3-Dichloropropene | 5.00 | 5.00 | ND | 5.83 | 5.43 | 117 | 109 | 70-130 | YES | 7 | 30 |
| 1,1,2-Trichloroethane | 5.00 | 5.00 | ND | 6.44 | 5.91 | 129 | 118 | 70-130 | YES | 9 | 30 |
| Tetrachloroethene | 5.00 | 5.00 | ND | 5.90 | 5.55 | 118 | 111 | 70-130 | YES | 6 | 30 |
| 1,3-Dichloropropane | 5.00 | 5.00 | ND | 5.78 | 5.42 | 116 | 108 | 70-130 | YES | 6 | 30 |
| Dibromochloromethane | 5.00 | 5.00 | ND | 5.96 | 5.76 | 119 | 115 | 70-130 | YES | 4 | 30 |
| 1,2-Dibromoethane | 5.00 | 5.00 | ND | 5.57 | 5.17 | 111 | 103 | 70-130 | YES | 7 | 30 |
| Chlorobenzene | 5.00 | 5.00 | ND | 5.70 | 5.42 | 114 | 108 | 70-130 | YES | 5 | 30 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.00 | ND | 5.89 | 5.44 | 118 | 109 | 70-130 | YES | 8 | 30 |
| Ethylbenzene | 5.00 | 5.00 | ND | 5.31 | 5.00 | 106 | 100 | 70-130 | YES | 6 | 30 |
| m+p-Xylene | 10.0 | 10.0 | ND | 11.5 | 10.7 | 115 | 107 | 70-130 | YES | 7 | 30 |
| o-Xylene | 5.00 | 5.00 | ND | 5.40 | 5.03 | 108 | 101 | 70-130 | YES | 7 | 30 |
| Styrene | 5.00 | 5.00 | ND | 5.90 | 5.56 | 118 | 111 | 70-130 | YES | 6 | 30 |
| Bromoform | 5.00 | 5.00 | ND | 6.30 | 5.65 | 126 | 113 | 70-130 | YES | 11 | 30 |
| Isopropylbenzene | 5.00 | 5.00 | ND | 5.56 | 5.03 | 111 | 101 | 70-130 | YES | 10 | 30 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.00 | ND | 6.12 | 5.74 | 122 | 115 | 70-130 | YES | 6 | 30 |
| Bromobenzene | 5.00 | 5.00 | ND | 5.49 | 5.12 | 110 | 102 | 70-130 | YES | 7 | 30 |
| 1,2,3-Trichloropropane | 5.00 | 5.00 | ND | 5.61 | 5.17 | 112 | 103 | 70-130 | YES | 8 | 30 |
| n-Propylbenzene | 5.00 | 5.00 | ND | 5.90 | 5.42 | 118 | 108 | 70-130 | YES | 8 | 30 |
| 2-Chlorotoluene | 5.00 | 5.00 | ND | 5.85 | 5.43 | 117 | 109 | 70-130 | YES | 7 | 30 |
| 1,3,5-Trimethylbenzene | 5.00 | 5.00 | ND | 5.68 | 5.28 | 114 | 106 | 70-130 | YES | 7 | 30 |
| 4-Chlorotoluene | 5.00 | 5.00 | ND | 5.93 | 5.46 | 119 | 109 | 70-130 | YES | 8 | 30 |
| tert-Butylbenzene | 5.00 | 5.00 | ND | 5.69 | 5.27 | 114 | 105 | 70-130 | YES | 8 | 30 |
| 1,2,4-Trimethylbenzene | 5.00 | 5.00 | ND | 5.75 | 5.24 | 115 | 105 | 70-130 | YES | 9 | 30 |
| sec-Butylbenzene | 5.00 | 5.00 | ND | 5.75 | 5.27 | 115 | 105 | 70-130 | YES | 9 | 30 |
| p-Isopropyltoluene | 5.00 | 5.00 | ND | 6.18 | 5.72 | 124 | 114 | 70-130 | YES | 8 | 30 |
| 1,3-Dichlorobenzene | 5.00 | 5.00 | ND | 5.56 | 5.15 | 111 | 103 | 70-130 | YES | 8 | 30 |
| 1,4-Dichlorobenzene | 5.00 | 5.00 | ND | 5.59 | 5.16 | 112 | 103 | 70-130 | YES | 8 | 30 |
| n-Butylbenzene | 5.00 | 5.00 | ND | 6.06 | 5.62 | 121 | 112 | 70-130 | YES | 7 | 30 |
| 1,2-Dichlorobenzene | 5.00 | 5.00 | ND | 5.52 | 5.22 | 110 | 104 | 70-130 | YES | 6 | 30 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 5.00 | ND | 5.27 | 5.04 | 105 | 101 | 70-130 | YES | 4 | 30 |
| 1,2,4-Trichlorobenzene | 5.00 | 5.00 | ND | 5.04 | 4.73 | 101 | 95 | 70-130 | YES | 6 | 30 |
| Hexachlorobutadiene | 5.00 | 5.00 | ND | 4.99 | 4.65 | 100 | 93 | 70-130 | YES | 7 | 30 |
| Naphthalene | 5.00 | 5.00 | ND | 4.77 | 4.65 | 95 | 93 | 70-130 | YES | 2 | 30 |

N/C = Could not calculate
Ent. by 8041

Lab Chronicle:

Ver. by

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries
=====

Unspiked: sm19s06.d
110IN 5624005
Method: EPA 524.2 REV 4
Instrument: SH08359

Matrix Spike: sm19s07.d
110INMS 5624006
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: sm19s08.d
110INMSD 5624007
Batch: S0907818A

| COMPOUND NAME | MS SPIKE | MSD SPIKE | US CONC UG/L | MS CONC UG/L | MSD CONC UG/L | MS REC % | MSD REC % | Range LOWER-UPPER | INSPEC | RPD % | RPD MAX |
|------------------------|-------------|--------------|-----------------|-----------------|------------------|-------------|--------------|----------------------|--------|----------|------------|
| 1,2,3-Trichlorobenzene | 5.00 | 5.00 | ND | 4.88 | 4.68 | 98 | 94 | 70-130 | YES | 4 | 30 |

Lab Chronicle: _____

N/C = Could not calculate

NOTED 8842

Ent. by _____

Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Method 524.2 LFB Sample Summary

File: sm19s01.d
Inst: SH08359
Dilution Factor: 1.0

Injected: 03/19/09 at 17:40
Sample: LFBS54

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: S090781BA

| COMPOUND NAME | SPIKE LEVEL | LFB CONC UG/L | LFB REC % | Range LOWER-UPPER | INSPEC |
|-----------------------------|----------------|------------------|--------------|----------------------|--------|
| Dichlorodifluoromethane | 2.00 | 1.69 | 85 | 70-130 | YES |
| Chloromethane | 2.00 | 2.08 | 104 | 70-130 | YES |
| Vinyl Chloride | 2.00 | 1.77 | 88 | 70-130 | YES |
| Bromomethane | 2.00 | 2.15 | 108 | 70-130 | YES |
| Chloroethane | 2.00 | 2.02 | 101 | 70-130 | YES |
| Trichlorofluoromethane | 2.00 | 1.82 | 91 | 70-130 | YES |
| 1,1-Dichloroethene | 5.00 | 4.97 | 99 | 70-130 | YES |
| Methylene Chloride | 5.00 | 5.87 | 117 | 70-130 | YES |
| trans-1,2-Dichloroethene | 5.00 | 5.33 | 107 | 70-130 | YES |
| 1,1-Dichloroethane | 5.00 | 5.11 | 102 | 70-130 | YES |
| cis-1,2-Dichloroethene | 5.00 | 5.22 | 104 | 70-130 | YES |
| 2,2-Dichloropropane | 5.00 | 5.35 | 107 | 70-130 | YES |
| Bromochloromethane | 5.00 | 5.39 | 108 | 70-130 | YES |
| Chloroform | 5.00 | 5.66 | 113 | 70-130 | YES |
| 1,1,1-Trichloroethane | 5.00 | 5.40 | 108 | 70-130 | YES |
| Carbon Tetrachloride | 5.00 | 5.75 | 115 | 70-130 | YES |
| 1,1-Dichloropropene | 5.00 | 5.32 | 106 | 70-130 | YES |
| Benzene | 5.00 | 5.50 | 110 | 70-130 | YES |
| 1,2-Dichloroethane | 5.00 | 5.60 | 112 | 70-130 | YES |
| Trichloroethene | 5.00 | 5.21 | 104 | 70-130 | YES |
| 1,2-Dichloropropane | 5.00 | 5.15 | 103 | 70-130 | YES |
| Dibromomethane | 5.00 | 5.66 | 113 | 70-130 | YES |
| Bromodichloromethane | 5.00 | 5.88 | 118 | 70-130 | YES |
| cis-1,3-Dichloropropene | 5.00 | 5.44 | 109 | 70-130 | YES |
| Toluene | 5.00 | 5.41 | 108 | 70-130 | YES |
| trans-1,3-Dichloropropene | 5.00 | 5.51 | 110 | 70-130 | YES |
| 1,1,2-Trichloroethane | 5.00 | 6.11 | 122 | 70-130 | YES |
| Tetrachloroethene | 5.00 | 5.51 | 110 | 70-130 | YES |
| 1,3-Dichloropropane | 5.00 | 5.50 | 110 | 70-130 | YES |
| Dibromochloromethane | 5.00 | 5.74 | 115 | 70-130 | YES |
| 1,2-Dibromoethane | 5.00 | 5.31 | 106 | 70-130 | YES |
| Chlorobenzene | 5.00 | 5.37 | 107 | 70-130 | YES |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.53 | 111 | 70-130 | YES |
| Ethylbenzene | 5.00 | 4.97 | 99 | 70-130 | YES |
| m+p-Xylene | 10.00 | 10.67 | 107 | 70-130 | YES |
| o-Xylene | 5.00 | 5.05 | 101 | 70-130 | YES |
| Styrene | 5.00 | 5.62 | 112 | 70-130 | YES |
| Bromoform | 5.00 | 5.84 | 117 | 70-130 | YES |
| Isopropylbenzene | 5.00 | 5.19 | 104 | 70-130 | YES |
| 1,1,2,2-Tetrachloroethane | 5.00 | 6.03 | 121 | 70-130 | YES |
| Bromobenzene | 5.00 | 5.25 | 105 | 70-130 | YES |
| 1,2,3-Trichloropropane | 5.00 | 5.44 | 109 | 70-130 | YES |
| n-Propylbenzene | 5.00 | 5.46 | 109 | 70-130 | YES |
| 2-Chlorotoluene | 5.00 | 5.53 | 111 | 70-130 | YES |
| 1,3,5-Trimethylbenzene | 5.00 | 5.27 | 105 | 70-130 | YES |
| 4-Chlorotoluene | 5.00 | 5.35 | 107 | 70-130 | YES |
| tert-Butylbenzene | 5.00 | 5.18 | 104 | 70-130 | YES |
| 1,2,4-Trimethylbenzene | 5.00 | 5.37 | 107 | 70-130 | YES |
| sec-Butylbenzene | 5.00 | 5.26 | 105 | 70-130 | YES |
| p-Isopropyltoluene | 5.00 | 5.72 | 114 | 70-130 | YES |
| 1,3-Dichlorobenzene | 5.00 | 5.25 | 105 | 70-130 | YES |
| 1,4-Dichlorobenzene | 5.00 | 5.27 | 105 | 70-130 | YES |
| n-Butylbenzene | 5.00 | 5.62 | 112 | 70-130 | YES |
| 1,2-Dichlorobenzene | 5.00 | 5.28 | 106 | 70-130 | YES |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 5.38 | 108 | 70-130 | YES |
| 1,2,4-Trichlorobenzene | 5.00 | 4.92 | 98 | 70-130 | YES |
| Hexachlorobutadiene | 5.00 | 4.54 | 91 | 70-130 | YES |
| Naphthalene | 5.00 | 4.80 | 96 | 70-130 | YES |

N/C = Could not calculate
Ent. by **WAT89 8843**

Lab Chronicle:

Ver. by

Lancaster Laboratories, Inc.
GC/MS Volatiles Method 524.2 LFB Sample Summary

File: sm19s01.d
Inst: SH08359
Dilution Factor: 1.0

Injected: 03/19/09 at 17:40
Sample: LFB554

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: S090781BA

| COMPOUND NAME | SPIKE LEVEL | LFB CONC UG/L | LFB REC % | Range LOWER-UPPER | INSPEC |
|------------------------|----------------|------------------|--------------|----------------------|--------|
| 1,2,3-Trichlorobenzene | 5.00 | 4.83 | 97 | 70-130 | YES |

Lab Chronicle: _____
N/C = Could not calculate **WAT89 8844**
Ent. by _____
Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Method 524.2 LFB Sample Summary

File: sm20s01.d
Inst: SH08359
Dilution Factor: 1.0

Injected: 03/20/09 at 07:34
Sample: LFB555

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: S090791AA

| COMPOUND NAME | SPIKE LEVEL | LFB CONC UG/L | LFB REC % | Range LOWER-UPPER | INSPEC |
|-----------------------------|-------------|---------------|-----------|-------------------|--------|
| Dichlorodifluoromethane | 2.00 | 1.72 | 86 | 70-130 | YES |
| Chloromethane | 2.00 | 2.55 | 127 | 70-130 | YES |
| Vinyl Chloride | 2.00 | 2.04 | 102 | 70-130 | YES |
| Bromomethane | 2.00 | 2.56 | 128 | 70-130 | YES |
| Chloroethane | 2.00 | 2.33 | 116 | 70-130 | YES |
| Dichlorofluoromethane | 2.00 | 2.27 | 113 | 70-130 | YES |
| Trichlorofluoromethane | 2.00 | 1.44 | 72 | 70-130 | YES |
| Ethyl Ether | 5.00 | 6.29 | 126 | 70-130 | YES |
| Acrolein | 37.50 | 42.74 | 114 | 70-130 | YES |
| 1,1-Dichloroethene | 5.00 | 4.79 | 96 | 70-130 | YES |
| Freon 113 | 5.00 | 4.41 | 88 | 70-130 | YES |
| Acetone | 37.50 | 46.30 | 123 | 70-130 | YES |
| Methyl Iodide | 5.00 | 5.27 | 105 | 70-130 | YES |
| Carbon Disulfide | 5.00 | 5.54 | 111 | 70-130 | YES |
| Allyl Chloride | 5.00 | 5.16 | 103 | 70-130 | YES |
| Methylene Chloride | 5.00 | 6.18 | 124 | 70-130 | YES |
| t-Butyl Alcohol | 50.00 | 53.19 | 106 | 70-130 | YES |
| Acrylonitrile | 112.50 | 148.76 | 132 | 70-130 | NO |
| trans-1,2-Dichloroethene | 5.00 | 5.32 | 106 | 70-130 | YES |
| Methyl Tertiary Butyl Ether | 5.00 | 5.39 | 108 | 70-130 | YES |
| 1,1-Dichloroethane | 5.00 | 5.15 | 103 | 70-130 | YES |
| di-Isopropyl Ether | 5.00 | 5.67 | 113 | 70-130 | YES |
| Ethyl t-Butyl Ether | 5.00 | 5.50 | 110 | 70-130 | YES |
| cis-1,2-Dichloroethene | 5.00 | 5.48 | 110 | 70-130 | YES |
| 2,2-Dichloropropane | 5.00 | 5.39 | 108 | 70-130 | YES |
| 2-Butanone | 37.50 | 44.95 | 120 | 70-130 | YES |
| Propionitrile | 100.00 | 125.02 | 125 | 70-130 | YES |
| Methyl Acrylate | 25.00 | 32.72 | 131 | 70-130 | NO |
| Methacrylonitrile | 37.50 | 39.26 | 105 | 70-130 | YES |
| Bromochloromethane | 5.00 | 5.92 | 118 | 70-130 | YES |
| Tetrahydrofuran | 45.00 | 47.85 | 106 | 70-130 | YES |
| Chloroform | 5.00 | 5.82 | 116 | 70-130 | YES |
| 1,1,1-Trichloroethane | 5.00 | 5.40 | 108 | 70-130 | YES |
| 1-Chlorobutane | 5.00 | 6.75 | 135 | 70-130 | NO |
| Carbon Tetrachloride | 5.00 | 5.73 | 115 | 70-130 | YES |
| 1,1-Dichloropropene | 5.00 | 5.26 | 105 | 70-130 | YES |
| Benzene | 5.00 | 5.62 | 112 | 70-130 | YES |
| 1,2-Dichloroethane | 5.00 | 5.74 | 115 | 70-130 | YES |
| t-Amyl Methyl Ether | 5.00 | 5.41 | 108 | 70-130 | YES |
| Trichloroethene | 5.00 | 5.28 | 106 | 70-130 | YES |
| 1,2-Dichloropropane | 5.00 | 5.20 | 104 | 70-130 | YES |
| Methyl Methacrylate | 5.00 | 5.07 | 101 | 70-130 | YES |
| Dibromomethane | 5.00 | 5.75 | 115 | 70-130 | YES |
| Bromodichloromethane | 5.00 | 6.10 | 122 | 70-130 | YES |
| 2-Nitropropane | 500.00 | 708.39 | 142 | 70-130 | NO |
| Chloroacetonitrile | 250.00 | 281.13 | 112 | 70-130 | YES |
| cis-1,3-Dichloropropene | 5.00 | 5.67 | 113 | 70-130 | YES |
| 4-Methyl-2-Pentanone | 25.00 | 31.57 | 126 | 70-130 | YES |
| 1,1-Dichloropropanone | 500.00 | 657.75 | 132 | 70-130 | NO |
| Toluene | 5.00 | 5.48 | 110 | 70-130 | YES |
| trans-1,3-Dichloropropene | 5.00 | 5.76 | 115 | 70-130 | YES |
| Ethyl Methacrylate | 5.00 | 5.28 | 106 | 70-130 | YES |
| 1,1,2-Trichloroethane | 5.00 | 6.31 | 126 | 70-130 | YES |
| Tetrachloroethene | 5.00 | 5.56 | 111 | 70-130 | YES |
| 1,3-Dichloropropane | 5.00 | 5.76 | 115 | 70-130 | YES |
| 2-Hexanone | 25.00 | 30.56 | 122 | 70-130 | YES |
| Dibromochloromethane | 5.00 | 5.96 | 119 | 70-130 | YES |
| 1,2-Dibromoethane | 5.00 | 5.48 | 110 | 70-130 | YES |

N/C = Could not calculate
Ent. by _____

Lab Chronicle: _____

Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Method 524.2 LFB Sample Summary

File: sm20s01.d
Inst: SH08359
Dilution Factor: 1.0

Injected: 03/20/09 at 07:34
Sample: LFBS55

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: S090791AA

| COMPOUND NAME | SPIKE LEVEL | LFB CONC UG/L | LFB REC % | Range LOWER-UPPER | INSPEC |
|-----------------------------|----------------|------------------|--------------|----------------------|--------|
| Chlorobenzene | 5.00 | 5.55 | 111 | 70-130 | YES |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.74 | 115 | 70-130 | YES |
| Ethylbenzene | 5.00 | 5.12 | 102 | 70-130 | YES |
| m+p-Xylene | 10.00 | 10.86 | 109 | 70-130 | YES |
| o-Xylene | 5.00 | 5.10 | 102 | 70-130 | YES |
| Styrene | 5.00 | 5.68 | 114 | 70-130 | YES |
| Bromoform | 5.00 | 6.04 | 121 | 70-130 | YES |
| Isopropylbenzene | 5.00 | 5.16 | 103 | 70-130 | YES |
| 1,1,2,2-Tetrachloroethane | 5.00 | 6.20 | 124 | 70-130 | YES |
| Bromobenzene | 5.00 | 5.40 | 108 | 70-130 | YES |
| 1,2,3-Trichloropropane | 5.00 | 5.58 | 112 | 70-130 | YES |
| trans-1,4-Dichloro-2-Butene | 25.00 | 30.50 | 122 | 70-130 | YES |
| n-Propylbenzene | 5.00 | 5.48 | 110 | 70-130 | YES |
| 2-Chlorotoluene | 5.00 | 5.62 | 112 | 70-130 | YES |
| 1,3,5-Trimethylbenzene | 5.00 | 5.37 | 107 | 70-130 | YES |
| 4-Chlorotoluene | 5.00 | 5.63 | 113 | 70-130 | YES |
| tert-Butylbenzene | 5.00 | 5.31 | 106 | 70-130 | YES |
| Pentachloroethane | 5.00 | 5.83 | 117 | 70-130 | YES |
| 1,2,4-Trimethylbenzene | 5.00 | 5.44 | 109 | 70-130 | YES |
| sec-Butylbenzene | 5.00 | 5.37 | 107 | 70-130 | YES |
| p-Isopropyltoluene | 5.00 | 5.81 | 116 | 70-130 | YES |
| 1,3-Dichlorobenzene | 5.00 | 5.44 | 109 | 70-130 | YES |
| 1,4-Dichlorobenzene | 5.00 | 5.50 | 110 | 70-130 | YES |
| n-Butylbenzene | 5.00 | 5.63 | 113 | 70-130 | YES |
| 1,2-Dichlorobenzene | 5.00 | 5.57 | 111 | 70-130 | YES |
| Hexachloroethane | 5.00 | 5.39 | 108 | 70-130 | YES |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 5.42 | 108 | 70-130 | YES |
| Nitrobenzene | 250.00 | 223.52 | 89 | 70-130 | YES |
| 1,2,4-Trichlorobenzene | 5.00 | 4.99 | 100 | 70-130 | YES |
| Hexachlorobutadiene | 5.00 | 4.72 | 94 | 70-130 | YES |
| Naphthalene | 5.00 | 4.90 | 98 | 70-130 | YES |
| 1,2,3-Trichlorobenzene | 5.00 | 4.78 | 96 | 70-130 | YES |

N/C = Could not calculate

Lab Chronicle: _____

Ent. by _____

Ver. by _____

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: sm19b01.d Lab Sample ID: VBLKS54
 Date Analyzed: 03/19/09 Time Analyzed: 17:13
 Matrix (soil/water) WATER Level: (low/med) LOW
 Instrument ID: SH08359

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | LFBS54 | LFBS54 | sm19s01.d | 17:40 |
| 02 | 110TB | 5624009 | sm19s02.d | 18:20 |
| 03 | 110FD | 5624008 | sm19s03.d | 18:47 |
| 04 | 110EF | 5624003 | sm19s04.d | 19:14 |
| 05 | 110BC | 5624004 | sm19s05.d | 19:40 |
| 06 | 110IN | 5624005 | sm19s06.d | 20:07 |
| 07 | 110INMS | 5624006 | sm19s07.d | 20:34 |
| 08 | 110INMSD | 5624007 | sm19s08.d | 21:00 |
| 09 | LCTT3 | 5621719 | sm19s09.d | 21:44 |
| 10 | LIC03 | 5619069 | sm19s10.d | 22:10 |
| 11 | LIT03 | 5619070 | sm19s11.d | 22:37 |
| 12 | 1WATA | 5621915 | sm19s12.d | 23:04 |
| 13 | HWATA | 5621916 | sm19s13.d | 23:30 |
| 14 | 1SWAT | 5621917 | sm19s14.d | 23:57 |
| 15 | 16WAT | 5621918 | sm19s15.d | 00:24 |
| 16 | BREWA | 5621919 | sm19s16.d | 00:51 |
| 17 | RES02 | 5621920 | sm19s17.d | 01:17 |
| 18 | TWATA | 5621921 | sm19s18.d | 01:44 |
| 19 | WW-EF | 5622363 | sm19s19.d | 02:11 |
| 20 | WW-IN | 5622364 | sm19s20.d | 02:37 |
| 21 | WW-INDL | 5622364 | sm19s21.d | 03:04 |

COMMENTS: S090781BA

WATERS 8847

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: sm20b01.d

Lab Sample ID: VBLKS55

Date Analyzed: 03/20/09

Time Analyzed: 07:07

Matrix (soil/water) WATER

Level: (low/med) LOW

Instrument ID: SH08359

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|-------|-------------------|------------------|----------------|------------------|
| ----- | | | | |
| 01 | LFBS55 | LFBS55 | sm20s01.d | 07:34 |
| 02 | 1-417 | 5618247 | sm20s03.d | 08:27 |
| 03 | BREWADL | 5621919 | sm20s04.d | 08:54 |
| 04 | WW-EFDL | 5622363 | sm20s05.d | 09:21 |
| 05 | BD437 | 5618357 | sm20s06.d | 10:35 |
| 06 | BD406 | 5618358 | sm20s07.d | 11:02 |
| 07 | BSBAS | 5625070 | sm20s08.d | 11:28 |
| 08 | SRBAS | 5625204 | sm20s09.d | 11:55 |
| 09 | TO096 | 5626523 | sm20s10.d | 12:22 |
| 10 | TM1BF | 5627158 | sm20s11.d | 12:49 |
| 11 | TM1BFDL | 5627158 | sm20s12.d | 13:15 |
| 12 | TM1ML | 5627159 | sm20s13.d | 13:42 |
| 13 | TM1AF | 5627160 | sm20s14.d | 14:09 |
| 14 | TM2BF | 5627161 | sm20s15.d | 14:35 |
| 15 | TM2BFDL | 5627161 | sm20s16.d | 15:02 |
| 16 | TM2ML | 5627162 | sm20s17.d | 15:29 |
| 17 | TM2AF | 5627163 | sm20s18.d | 15:55 |
| 18 | TMWAT | 5627164 | sm20s19.d | 16:22 |
| 19 | TMJOH | 5627165 | sm20s20.d | 16:48 |

COMMENTS: S090791AA

WAT89 88-48

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: sm18t04.d BFB Injection Date: 03/18/09

Instrument ID: SH08359 BFB Injection Time: 16:04

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 30.2 |
| 75 | 30.0 - 80.0% of mass 95 | 42.5 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.0 |
| 173 | Less than 2.0% of mass 174 | 0.3 (0.4)1 |
| 174 | Greater than 50.0% of mass 95 | 79.9 |
| 175 | 5.0 - 9.0% of mass 174 | 5.9 (7.3)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 78.6 (98.4)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.2 (6.6)2 |

-1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD025 | VSTD025 | sm18i01.d | 03/18/09 | 16:28 |
| 02 | VSTD010 | VSTD010 | sm18i02.d | 03/18/09 | 16:55 |
| 03 | VSTD005 | VSTD005 | sm18i03.d | 03/18/09 | 17:21 |
| 04 | VSTD0.5 | VSTD0.5 | sm18i04.d | 03/18/09 | 17:48 |
| 05 | VBLKS53 | VBLKS53 | sm18b02.d | 03/18/09 | 18:41 |
| 06 | LFBS53 | LFBS53 | sm18s32.d | 03/18/09 | 19:52 |

WAT89 8849

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Lab File ID: sm19t01.d

BFB Injection Date: 03/19/09

Instrument ID: SH08359

BFB Injection Time: 15:56

Matrix: (soil/water) WATER

Level: (low/med) LOW

Column: (pack/cap) CAP

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 31.0 |
| 75 | 30.0 - 80.0% of mass 95 | 40.8 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.3 |
| 173 | Less than 2.0% of mass 174 | 0.6 (0.7)1 |
| 174 | Greater than 50.0% of mass 95 | 76.6 |
| 175 | 5.0 - 9.0% of mass 174 | 5.4 (7.1)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 75.0 (97.9)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.0 (6.7)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|---------------|-------------|---------------|---------------|
| 01 | VSTD010 | VSTD010 | sm19c01.d | 03/19/09 | 16:20 |
| 02 | VBLKS54 | VBLKS54 | sm19b01.d | 03/19/09 | 17:13 |
| 03 | LFBS54 | LFBS54 | sm19s01.d | 03/19/09 | 17:40 |
| 04 | 110TB | 5624009 | sm19s02.d | 03/19/09 | 18:20 |
| 05 | 110FD | 5624008 | sm19s03.d | 03/19/09 | 18:47 |
| 06 | 110EF | 5624003 | sm19s04.d | 03/19/09 | 19:14 |
| 07 | 110BC | 5624004 | sm19s05.d | 03/19/09 | 19:40 |
| 08 | 110IN | 5624005 | sm19s06.d | 03/19/09 | 20:07 |
| 09 | 110INMS | 5624006 | sm19s07.d | 03/19/09 | 20:34 |
| 10 | 110INMSD | 5624007 | sm19s08.d | 03/19/09 | 21:00 |
| 11 | LCTT3 | 5621719 | sm19s09.d | 03/19/09 | 21:44 |
| 12 | LIC03 | 5619069 | sm19s10.d | 03/19/09 | 22:10 |
| 13 | LIT03 | 5619070 | sm19s11.d | 03/19/09 | 22:37 |
| 14 | 1WATA | 5621915 | sm19s12.d | 03/19/09 | 23:04 |
| 15 | HWATA | 5621916 | sm19s13.d | 03/19/09 | 23:30 |
| 16 | 15WAT | 5621917 | sm19s14.d | 03/19/09 | 23:57 |
| 17 | 16WAT | 5621918 | sm19s15.d | 03/20/09 | 00:24 |
| 18 | BREWA | 5621919 | sm19s16.d | 03/20/09 | 00:51 |
| 19 | RES02 | 5621920 | sm19s17.d | 03/20/09 | 01:17 |
| 20 | TWATA | 5621921 | sm19s18.d | 03/20/09 | 01:44 |
| 21 | WW-EF | 5622363 | sm19s19.d | 03/20/09 | 02:11 |
| 22 | WW-IN | 5622364 | sm19s20.d | 03/20/09 | 02:37 |

WAT89 8858

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: sm19t01.d BFB Injection Date: 03/19/09
 Instrument ID: SH08359 BFB Injection Time: 15:56
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 31.0 |
| 75 | 30.0 - 80.0% of mass 95 | 40.8 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.3 |
| 173 | Less than 2.0% of mass 174 | 0.6 (0.7)1 |
| 174 | Greater than 50.0% of mass 95 | 76.6 |
| 175 | 5.0 - 9.0% of mass 174 | 5.4 (7.1)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 75.0 (97.9)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.0 (6.7)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 23 | WW-INDL | 5622364 | sm19s21.d | 03/20/09 | 03:04 |

WAT89 8851

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: sm20t01.d BFB Injection Date: 03/20/09

Instrument ID: SH08359 BFB Injection Time: 05:55

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 32.3 |
| 75 | 30.0 - 80.0% of mass 95 | 40.8 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 7.0 |
| 173 | Less than 2.0% of mass 174 | 0.2 (0.2)1 |
| 174 | Greater than 50.0% of mass 95 | 77.8 |
| 175 | 5.0 - 9.0% of mass 174 | 5.5 (7.0)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 77.9 (100.2)1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 (6.3)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD010 | VSTD010 | sm20c01.d | 03/20/09 | 06:11 |
| 02 | VBLKS55 | VBLKS55 | sm20b01.d | 03/20/09 | 07:07 |
| 03 | LFBS55 | LFBS55 | sm20s01.d | 03/20/09 | 07:34 |
| 04 | 1-417 | 5618247 | sm20s03.d | 03/20/09 | 08:27 |
| 05 | BREWADL | 5621919 | sm20s04.d | 03/20/09 | 08:54 |
| 06 | WW-EFDL | 5622363 | sm20s05.d | 03/20/09 | 09:21 |
| 07 | BD437 | 5618357 | sm20s06.d | 03/20/09 | 10:35 |
| 08 | BD406 | 5618358 | sm20s07.d | 03/20/09 | 11:02 |
| 09 | BSBAS | 5625070 | sm20s08.d | 03/20/09 | 11:28 |
| 10 | SRBAS | 5625204 | sm20s09.d | 03/20/09 | 11:55 |
| 11 | TO096 | 5626523 | sm20s10.d | 03/20/09 | 12:22 |
| 12 | TM1BF | 5627158 | sm20s11.d | 03/20/09 | 12:49 |
| 13 | TM1BFDL | 5627158 | sm20s12.d | 03/20/09 | 13:15 |
| 14 | TM1ML | 5627159 | sm20s13.d | 03/20/09 | 13:42 |
| 15 | TM1AF | 5627160 | sm20s14.d | 03/20/09 | 14:09 |
| 16 | TM2BF | 5627161 | sm20s15.d | 03/20/09 | 14:35 |
| 17 | TM2BFDL | 5627161 | sm20s16.d | 03/20/09 | 15:02 |
| 18 | TM2ML | 5627162 | sm20s17.d | 03/20/09 | 15:29 |
| 19 | TM2AF | 5627163 | sm20s18.d | 03/20/09 | 15:55 |
| 20 | TMWAT | 5627164 | sm20s19.d | 03/20/09 | 16:22 |
| 21 | TMJOH | 5627165 | sm20s20.d | 03/20/09 | 16:48 |

44189 8852

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories

Contract: _____

Lab Code: LANCAS

Case No.: _____

SAS No.: _____

SDG No.: _____

Lab File ID (Standard): sm19c01.d

Date Analyzed: 03/19/09

Instrument ID: SH08359

Time Analyzed: 16:20

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

| | IS1 (FBZ) | AREA # | RT # |
|-------------------|-----------|---------|-------|
| ===== | ===== | ===== | ===== |
| 12 HOUR STD | 1385767 | | 7.784 |
| UPPER LIMIT | 2771534 | | 8.284 |
| LOWER LIMIT | 692884 | | 7.284 |
| ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | |
| ===== | ===== | ===== | ===== |
| 01 | VBLKS54 | 1261729 | 7.784 |
| 02 | LFBS54 | 1324208 | 7.784 |
| 03 | 110TB | 1166077 | 7.784 |
| 04 | 110FD | 1205205 | 7.784 |
| 05 | 110EF | 1144375 | 7.784 |
| 06 | 110BC | 1139062 | 7.784 |
| 07 | 110IN | 1113247 | 7.784 |
| 08 | 110INMS | 1269211 | 7.784 |
| 09 | 110INMSD | 1306009 | 7.784 |
| 10 | LCTT3 | 1155946 | 7.777 |
| 11 | LIC03 | 1148101 | 7.777 |
| 12 | LIT03 | 1143953 | 7.777 |
| 13 | 1WATA | 1113482 | 7.777 |
| 14 | HWATA | 1107737 | 7.777 |
| 15 | 15WAT | 1062800 | 7.777 |
| 16 | 16WAT | 1099633 | 7.769 |
| 17 | BREWA | 1135430 | 7.777 |
| 18 | RES02 | 1085794 | 7.777 |
| 19 | TWATA | 1030388 | 7.777 |
| 20 | WW-EF | 1070089 | 7.777 |
| 21 | WW-IN | 1092580 | 7.777 |
| 22 | WW-INDL | 1084695 | 7.777 |

IS1 (FBZ)=Fluorobenzene

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

WATER 0053

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): sm20c01.d Date Analyzed: 03/20/09
 Instrument ID: SH08359 Time Analyzed: 06:11
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

| | IS1 (FBZ) | AREA # | RT # |
|-------------------|-----------|--------|-------|
| ===== | ===== | ===== | ===== |
| 12 HOUR STD | 1286723 | | 7.777 |
| UPPER LIMIT | 2573446 | | 8.277 |
| LOWER LIMIT | 643362 | | 7.277 |
| ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | |
| ===== | ===== | ===== | ===== |
| 01 VBLKS55 | 1133851 | | 7.769 |
| 02 LFBS55 | 1237686 | | 7.777 |
| 03 1-417 | 1228433 | | 7.777 |
| 04 BREWADL | 1143812 | | 7.769 |
| 05 WW-EFDL | 1114619 | | 7.769 |
| 06 BD437 | 1076496 | | 7.769 |
| 07 BD406 | 1107721 | | 7.769 |
| 08 BSBAS | 1073919 | | 7.762 |
| 09 SRBAS | 1104140 | | 7.769 |
| 10 TO096 | 1087284 | | 7.769 |
| 11 TM1BF | 1038419 | | 7.762 |
| 12 TM1BFDL | 1034838 | | 7.769 |
| 13 TM1ML | 1068700 | | 7.769 |
| 14 TM1AF | 1050698 | | 7.762 |
| 15 TM2BF | 1079336 | | 7.769 |
| 16 TM2BFDL | 1051300 | | 7.769 |
| 17 TM2ML | 1086098 | | 7.769 |
| 18 TM2AF | 1048148 | | 7.762 |
| 19 TMWAT | 1056628 | | 7.762 |
| 20 TMJOH | 1040160 | | 7.762 |

IS1 (FBZ)=Fluorobenzene

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

WAT89 8854

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

Sample Data

**EPA Method 524.2
LOQ/MDL**

| | Compound Name | LOQ | MDL | Units | |
|--|---------------------------|------------|------------|--------------|--|
| | Dichlorodifluoromethane | 0.5 | 0.2 | ug/l | |
| | 2,2-Dichloropropane | 0.5 | 0.2 | ug/l | |
| | cis-1,2-Dichloroethene | 0.5 | 0.1 | ug/l | |
| | Bromochloromethane | 0.5 | 0.1 | ug/l | |
| | 1,1-Dichloropropene | 0.5 | 0.1 | ug/l | |
| | Dibromomethane | 0.5 | 0.1 | ug/l | |
| | 1,3-Dichloropropane | 0.5 | 0.1 | ug/l | |
| | 1,2-Dibromoethane | 0.5 | 0.1 | ug/l | |
| | trans-1,3-Dichloropropene | 0.5 | 0.1 | ug/l | |
| | cis-1,3-Dichloropropene | 0.5 | 0.1 | ug/l | |
| | Chloromethane | 0.5 | 0.2 | ug/l | |
| | Bromomethane | 0.5 | 0.1 | ug/l | |
| | Vinyl Chloride | 0.5 | 0.1 | ug/l | |
| | Chloroethane | 0.5 | 0.2 | ug/l | |
| | Trichlorofluoromethane | 0.5 | 0.2 | ug/l | |
| | 1,1-Dichloroethene | 0.5 | 0.1 | ug/l | |
| | Methylene Chloride | 0.5 | 0.3 | ug/l | |
| | trans-1,2-Dichloroethene | 0.5 | 0.1 | ug/l | |
| | 1,1-Dichloroethane | 0.5 | 0.1 | ug/l | |
| | Chloroform | 0.5 | 0.1 | ug/l | |
| | 1,1,1-Trichloroethane | 0.5 | 0.1 | ug/l | |
| | Carbon Tetrachloride | 0.5 | 0.1 | ug/l | |
| | Benzene | 0.5 | 0.1 | ug/l | |
| | 1,2-Dichloroethane | 0.5 | 0.1 | ug/l | |
| | Trichloroethene | 0.5 | 0.1 | ug/l | |
| | 1,2-Dichloropropane | 0.5 | 0.1 | ug/l | |
| | Bromodichloromethane | 0.5 | 0.1 | ug/l | |
| | Toluene | 0.5 | 0.1 | ug/l | |
| | 1,1,2-Trichloroethane | 0.5 | 0.1 | ug/l | |
| | Tetrachloroethene | 0.5 | 0.1 | ug/l | |
| | Dibromochloromethane | 0.5 | 0.1 | ug/l | |
| | 1,1,1,2-Tetrachloroethane | 0.5 | 0.1 | ug/l | |
| | m & p-Xylene | 0.5 | 0.2 | ug/l | |
| | o-Xylene | 0.5 | 0.1 | ug/l | |
| | Isopropylbenzene | 0.5 | 0.1 | ug/l | |

WAT89 8856

**EPA Method 524.2
LOQ/MDL**

| | Compound Name | LOQ | MDL | Units | |
|--|-----------------------------|------------|------------|--------------|--|
| | Bromobenzene | 0.5 | 0.1 | ug/l | |
| | 1,2,3-Trichloropropane | 0.5 | 0.2 | ug/l | |
| | n-Propylbenzene | 0.5 | 0.1 | ug/l | |
| | 2-Chlorotoluene | 0.5 | 0.1 | ug/l | |
| | 1,3,5-Trimethylbenzene | 0.5 | 0.1 | ug/l | |
| | 4-Chlorotoluene | 0.5 | 0.2 | ug/l | |
| | tert-Butylbenzene | 0.5 | 0.1 | ug/l | |
| | 1,2,4-Trimethylbenzene | 0.5 | 0.1 | ug/l | |
| | sec-Butylbenzene | 0.5 | 0.1 | ug/l | |
| | p-Isopropyltoluene | 0.5 | 0.1 | ug/l | |
| | 1,3-Dichlorobenzene | 0.5 | 0.1 | ug/l | |
| | 1,4-Dichlorobenzene | 0.5 | 0.1 | ug/l | |
| | n-Butylbenzene | 0.5 | 0.2 | ug/l | |
| | 1,2-Dichlorobenzene | 0.5 | 0.1 | ug/l | |
| | 1,2-Dibromo-3-chloropropane | 1 | 0.4 | ug/l | |
| | 1,2,4-Trichlorobenzene | 0.5 | 0.2 | ug/l | |
| | Hexachlorobutadiene | 0.5 | 0.2 | ug/l | |
| | Naphthalene | 0.5 | 0.2 | ug/l | |
| | 1,2,3-Trichlorobenzene | 0.5 | 0.2 | ug/l | |
| | Chlorobenzene | 0.5 | 0.1 | ug/l | |
| | Ethylbenzene | 0.5 | 0.1 | ug/l | |
| | Styrene | 0.5 | 0.1 | ug/l | |
| | Bromoform | 0.5 | 0.1 | ug/l | |
| | 1,1,2,2-Tetrachloroethane | 0.5 | 0.1 | ug/l | |

WAT89: 8852

**EPA Method 524.2
LOQ/MDL**

| | Compound Name | LOQ | MDL | Units | |
|--|-----------------------------|------------|------------|--------------|--|
| | Ethyl Ether | 0.5 | 0.2 | ug/l | |
| | Acetone | 5 | 3 | ug/l | |
| | Methyl Iodide | 0.5 | 0.1 | ug/l | |
| | Carbon Disulfide | 2 | 0.4 | ug/l | |
| | Allyl Chloride | 0.5 | 0.1 | ug/l | |
| | Acrylonitrile | 10 | 2 | ug/l | |
| | Methyl t-Butyl Ether | 0.5 | 0.1 | ug/l | |
| | 2-Butanone | 5 | 2 | ug/l | |
| | Propionitrile | 10 | 3 | ug/l | |
| | Methyl Acrylate | 5 | 0.5 | ug/l | |
| | Methacrylonitrile | 5 | 1 | ug/l | |
| | Tetrahydrofuran | 5 | 2 | ug/l | |
| | 1-Chlorobutane | 0.5 | 0.2 | ug/l | |
| | Methyl Methacrylate | 0.5 | 0.2 | ug/l | |
| | 2-Nitropropane | 50 | 9 | ug/l | |
| | Chloroacetonitrile | 50 | 7 | ug/l | |
| | 1,1-Dichloropropanone | 50 | 9 | ug/l | |
| | 4-Methyl-2-pentanone | 5 | 0.6 | ug/l | |
| | Ethyl Methacrylate | 0.5 | 0.1 | ug/l | |
| | 2-Hexanone | 5 | 0.6 | ug/l | |
| | trans-1,4-Dichloro-2-butene | 5 | 1 | ug/l | |
| | Pentachloroethane | 0.5 | 0.1 | ug/l | |
| | Hexachloroethane | 0.5 | 0.1 | ug/l | |
| | Nitrobenzene | 50 | 5 | ug/l | |
| | t-Butyl Alcohol | 25 | 5 | ug/l | |
| | Acrolein | 50 | 15 | ug/l | |
| | di-Isopropyl Ether | 0.5 | 0.1 | ug/l | |
| | Ethyl t-Butyl Ether | 0.5 | 0.1 | ug/l | |
| | t-Amyl Methyl Ether | 0.5 | 0.1 | ug/l | |

WAT89 8858

1WATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5621915

File: /chem/SH08359.i/09mar19a.b/sm19s12.d
Sample: 1WATA;5621915;1;0;;;DRAPER;
Injected At:19-MAR-2009 23:04
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:39B

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.777(0.007) | 816 | 96 | 1113482(-20) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.986(-0.001) | 174 | 207300 | 4.587 | 92% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(-0.001) | 152 | 173357 | 4.329 | 87% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

1WATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621915

File: /chem/SH08359.i/09mar19a.b/sm19s12.d
Sample: 1WATA;5621915;1;0;;;DRAPER;
Injected At:19-MAR-2009 23:04
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 39B

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QION | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|-------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|-----|
| 53) Toluene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 58) Tetrachloroethene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 64) Chlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 66) Ethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 67) m-p-Xylene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 68) o-Xylene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 69) Styrene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 71) Bromoform | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 75) Bromobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

1WATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5621915

File: /chem/SH08359.i/09mar19a.b/sm19s12.d
Sample: 1WATA;5621915;1;0;;;DRAPER;
Injected At:19-MAR-2009 23:04
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 39B

| Target Compounds | I.S. | | Q Ion | Area | Conc. | Conc. | Blank | Reporting | |
|---------------------------------|------|-------------|-------|------|-------------|-------------|-------|-----------|-------|
| | Ref. | RT (+/-RRT) | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 88) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | 0.40 | 0.50 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: MM Date: 3/22/09

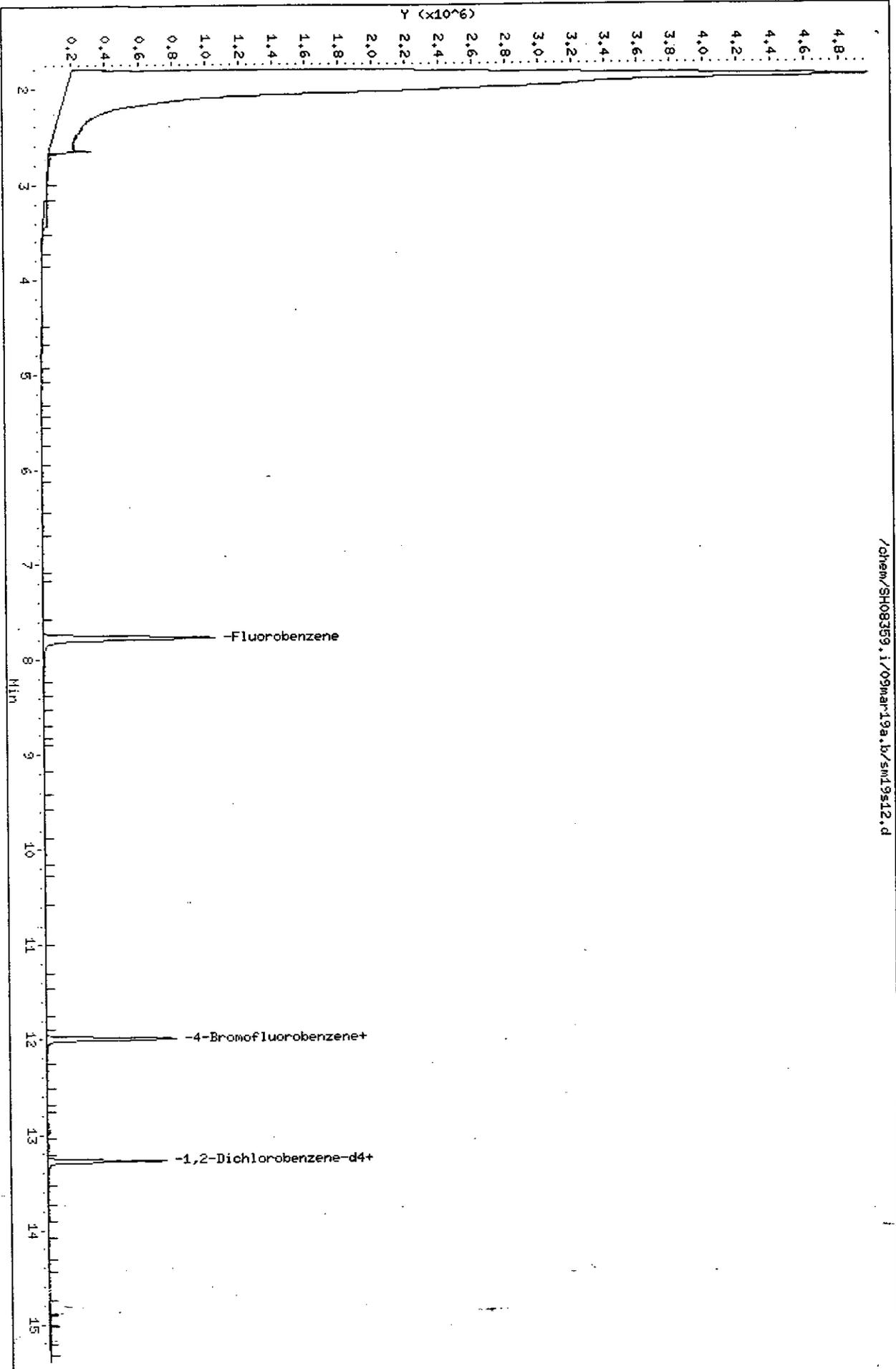
Auditor: MM Date: 3/24/09

Data File: /chem/SH08359.i/09mar19a.b/sml9s12.d
Date: 19-MAR-2009 23:04
Client ID: IMATRA
Sample Info: IMATRA;5621915;110;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.i
Operator: LCH01518
Column diameter: 0.25

Handwritten signature and date:
3/23/09

2388 0000



/chem/SH08359.i/09mar19a.b/sml9s12.d

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s12.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 23:04 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 1WATA

Lab Sample ID: 5621915

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 42)*Fluorobenzene | (1) | 7.777 | 96 | 1113482 | 5.000 |
| 73)\$4-Bromofluorobenzene | (1) | 11.986 | 174 | 207300 | 4.587 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 173357 | 4.329 |

* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

HWATA

Lancaster Laboratories
 Quantitation Report GC/MS Volatiles 5621916

File: /chem/SH08359.i/09mar19a.b/sm19s13.d
 Sample: HWATA:5621916;1;0;;;DRAPER;
 Injected At:19-MAR-2009 23:30
 Calibration Time: 18-MAR-2009 16:28
 Target Method: S524RV4.m
 Blank Reference: sm19b01.d
 Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
 Batch:S090781BA Matrix: WATER
 Analyst:LCM01518 Level: Low
 Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
 Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
 Prep Factor:1.00
 Units: ug/L Bottle Code:39A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.777(0.007) | 816 | 96 | 1107737(-20) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(-0.001) | 174 | 207570 | 4.617 | 92% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(-0.001) | 152 | 174447 | 4.379 | 88% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

HWATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5621916

File: /chem/SH08359.i/09mar19a.b/sml9s13.d
Sample: HWATA:5621916;1;0;;;DRAPER;
Injected At: 19-MAR-2009 23:30
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sml9b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sml9c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 39A

| Target Compounds | I.S. | | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|-------------------------------|------|-------------|------|------|-------------|-------------|-------|-----------|-------|
| | Ref. | RT (+/-RRT) | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 53) Toluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 67) m+p-Xylene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 69) Styrene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 71) Bromoform | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

HWATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621916

File: /chem/SH08359.i/09mar19a.b/sm19s13.d
Sample: HWATA;5621916;1;0;;;DRAPER;
Injected At:19-MAR-2009 23:30
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 39A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|-----|
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 88) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | 0.40 | 0.50 | |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 97) Naphthalene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 | |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst:  Date: 3/23/09

Auditor:  Date: 5/21/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s13.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 23:30 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: HWATA

Lab Sample ID: 5621916

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 42)*Fluorobenzene | (1) | 7.777 | 96 | 1107737 | 5.000 |
| 73)\$4-Bromofluorobenzene | (1) | 11.993 | 174 | 207570 | 4.617 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 174447 | 4.379 |

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

15WAT

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621917

File: /chem/SH08359.i/09mar19a.b/sm19s14.d
Sample: 15WAT;5621917;1;0;;;DRAPER;
Injected At:19-MAR-2009 23:57
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:39A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.777(0.007) | 816 | 96 | 1062800(-23) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(-0.001) | 174 | 212972 | 4.938 | 99% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(-0.001) | 152 | 176896 | 4.628 | 93% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

15WAT

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621917

File: /chem/SH08359.i/09mar19a.b/sml9s14.d
Sample: 15WAT;5621917;1;0;;;DRAPER;
Injected At:19-MAR-2009 23:57
Calibration Time: 18-MAR-2009 16:28
Target Method: SS24RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA
Analyst:LCM01518
Instrument ID:SH08359.i
Standard Reference: sm19c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:39A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|-------------------------------|-----------|----------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 53) Toluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | 10.197(-0.001) | 166 | 6580 | 0.108 | 0.11 | | J | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 67) m+p-Xylene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 69) Styrene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 71) Bromoform | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

15WAT

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5621917

File: /chem/SH08359.i/09mar19a.b/sml9s14.d
Sample: 15WAT;5621917;1;0;;;DRAPER;
Injected At:19-MAR-2009 23:57
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:39A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 88) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | | 0.40 | 0.50 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: MM Date: 3/22/09

Auditor: MM Date: 3/24/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s14.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 23:57 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 15WAT

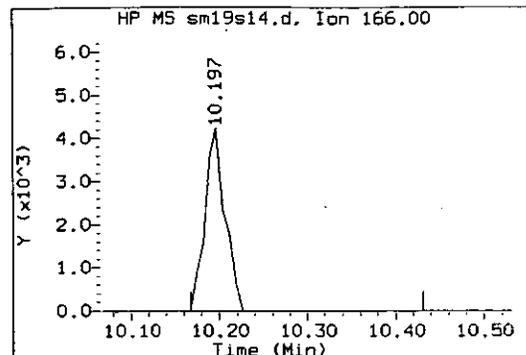
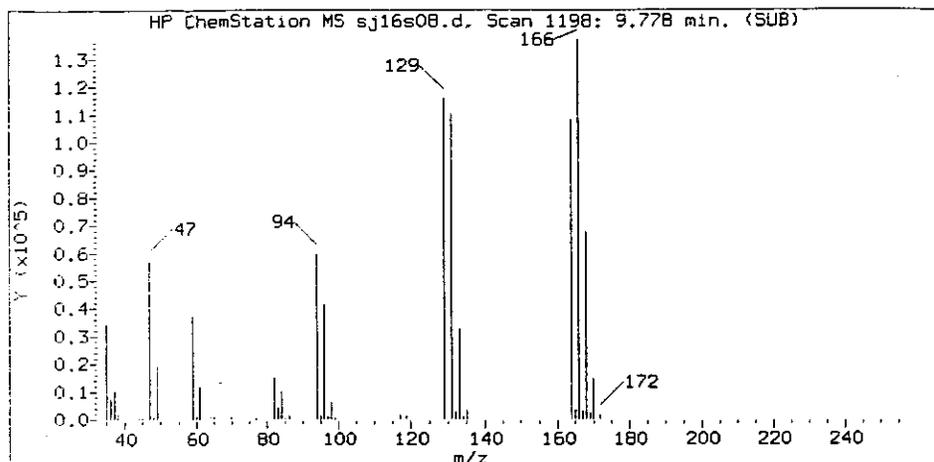
Lab Sample ID: 5621917

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 42)*Fluorobenzene | (1) | 7.777 | 96 | 1062800 | 5.000 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 6580 | 0.108 |
| 73)\$4-Bromofluorobenzene | (1) | 11.993 | 174 | 212972 | 4.938 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 176896 | 4.628 |

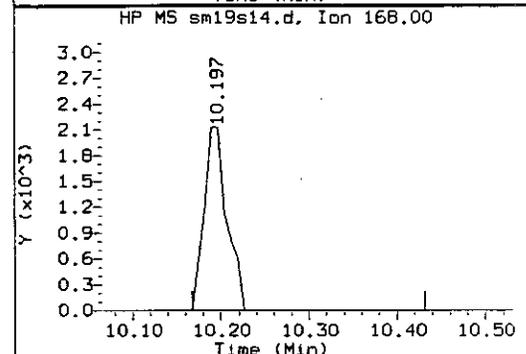
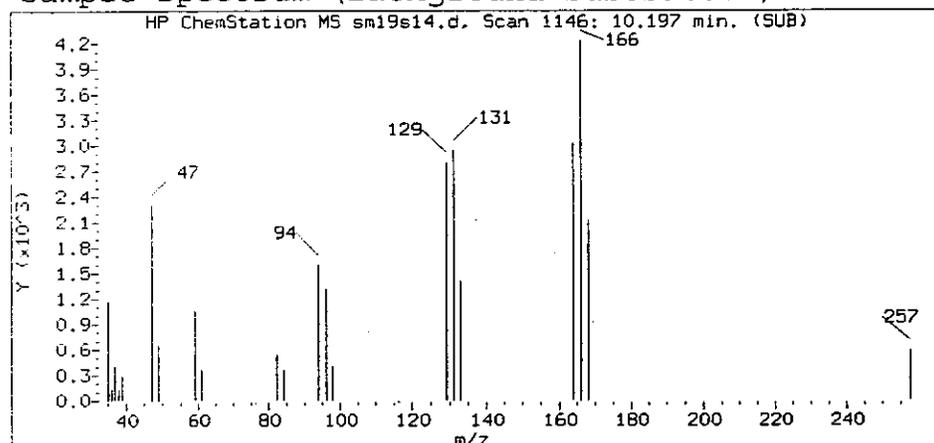
* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

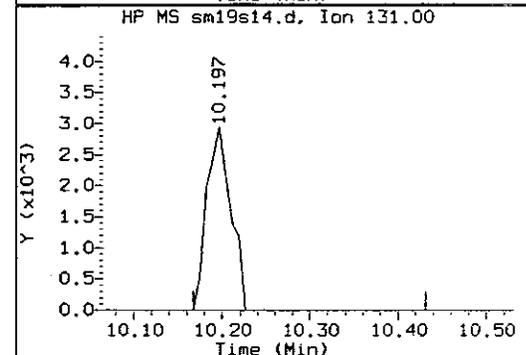
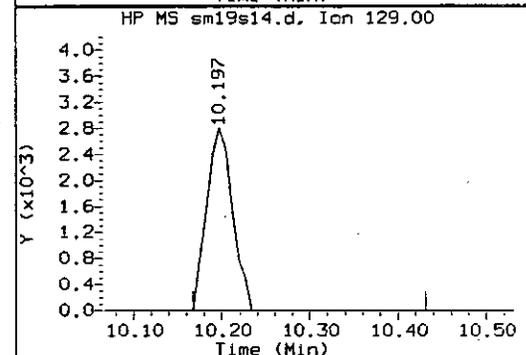
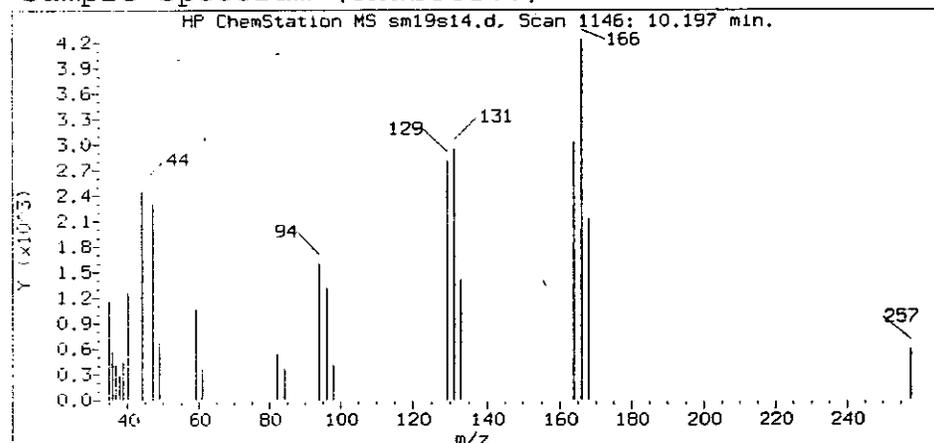
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s14.d
 Injection date and time: 19-MAR-2009 23:57

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 15WAT

Lab Sample ID: 5621917

Compound Number : 58
 Compound Name : Tetrachloroethene
 Scan Number : 1146
 Retention Time (minutes): 10.197
 Quant Ion : 166.0
 Area (flag) : 6580
 Concentration (ug/L) : 0.1076

WAT09 0074

16WAT

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621918

File: /chem/SH08359.i/09mar19a.b/sml9s15.d
Sample: 16WAT;5621918;1;0;;;DRAPER;
Injected At:20-MAR-2009 00:24
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sml9b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sml9c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:39A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.769(0.015) | 815 | 96 | 1099633(-21) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.986(-0.002) | 174 | 213167 | 4.777 | 96% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(-0.002) | 152 | 180065 | 4.553 | 91% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|-------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.119(0.000) | 96 | 35021 | 0.512 | 0.51 | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

16WAT

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621918

File: /chem/SH08359.i/09mar19a.b/sm19s15.d
Sample: 16WAT;5621918;1;0;;;DRAPER;
Injected At:20-MAR-2009 00:24
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:39A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|-------------------------------|-----------|----------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 53) Toluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | 10.189(-0.002) | 166 | 8527 | 0.135 | 0.13 | | J | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 67) m+p-Xylene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 69) Styrene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 71) Bromoform | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

16WAT

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5621918

File: /chem/SH08359.i/09mar19a.b/sm19s15.d
Sample: 16WAT;5621918;1;0;;;DRAPER;
Injected At:20-MAR-2009 00:24
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:39A

| Target Compounds | I.S. | | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|---------------------------------|------|-------------|------|------|-------------|-------------|-------|-----------|-------|
| | Ref. | RT (+/-RRT) | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 98) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | 0.40 | 0.50 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: MM Date: 3/24/09

Auditor: MM Date: 3/24/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s15.d Instrument ID: SH08359.i
Injection date and time: 20-MAR-2009 00:24 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 16WAT

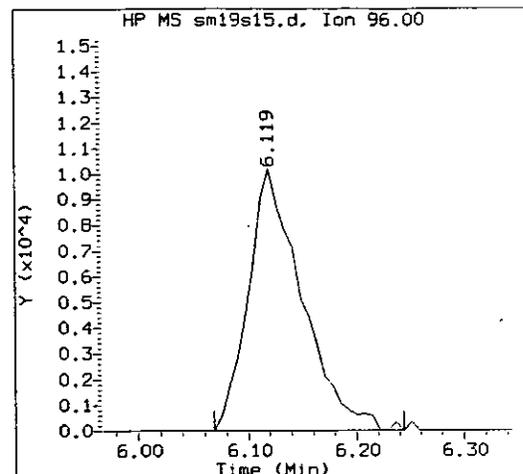
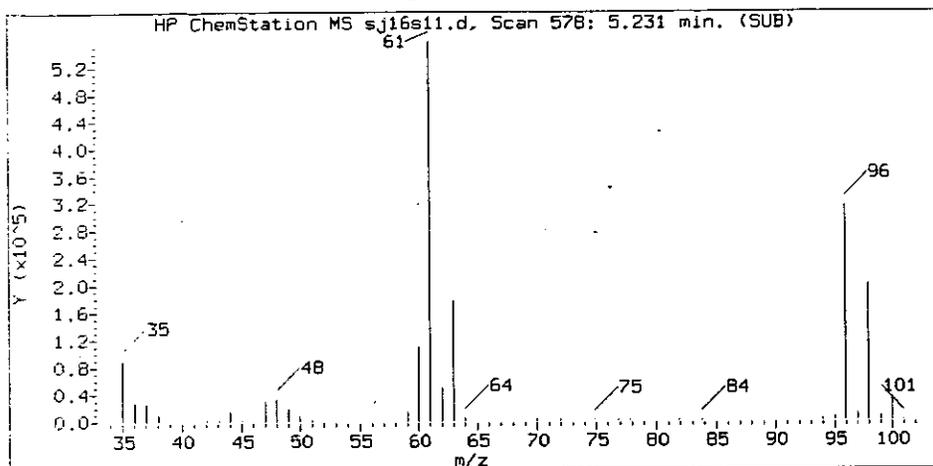
Lab Sample ID: 5621918

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|------------------------------|--------------|--------|------|---------|----------------------|
| 26) cis-1,2-Dichloroethene | (1) | 6.119 | 96 | 35021 | 0.512 |
| 42) *Fluorobenzene | (1) | 7.769 | 96 | 1099633 | 5.000 |
| 58) Tetrachloroethene | (1) | 10.189 | 166 | 8527 | 0.135 |
| 73) \$4-Bromofluorobenzene | (1) | 11.986 | 174 | 213167 | 4.777 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 180065 | 4.553 |

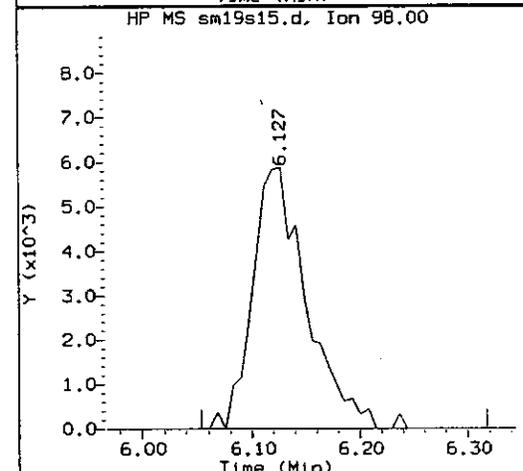
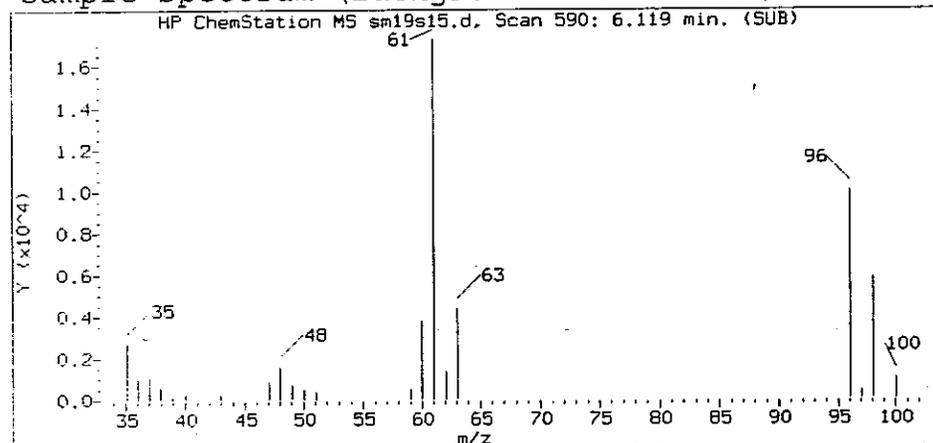
* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

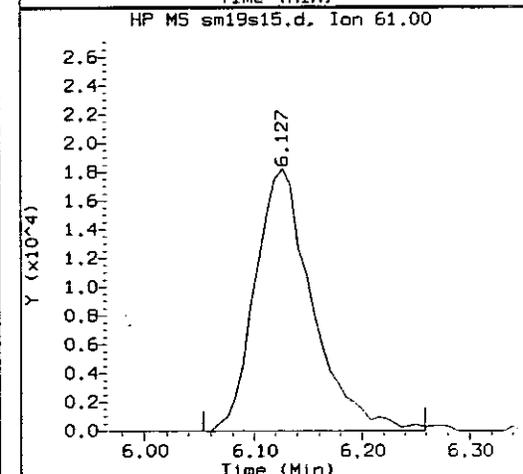
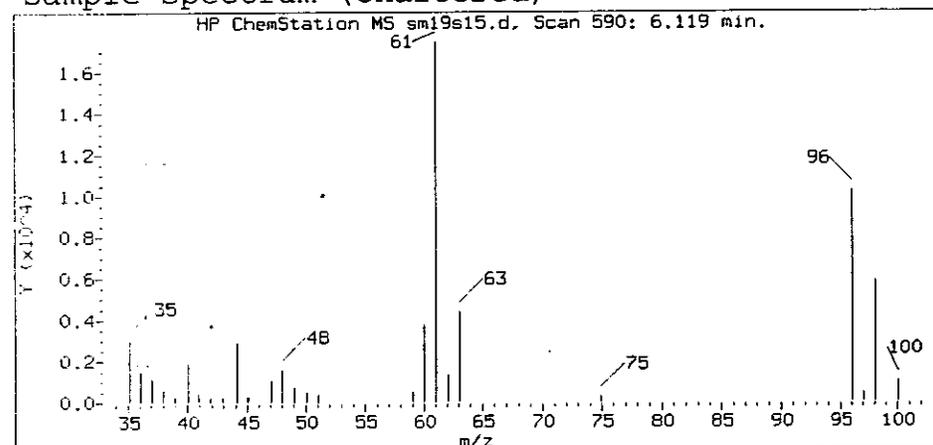
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s15.d
 Injection date and time: 20-MAR-2009 00:24

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

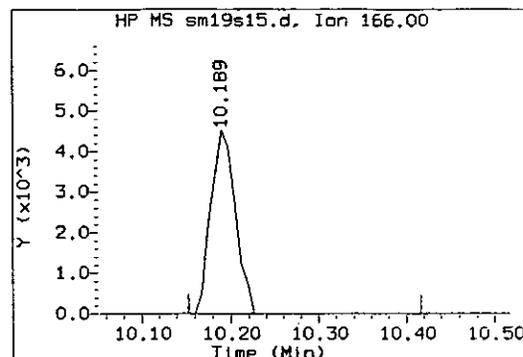
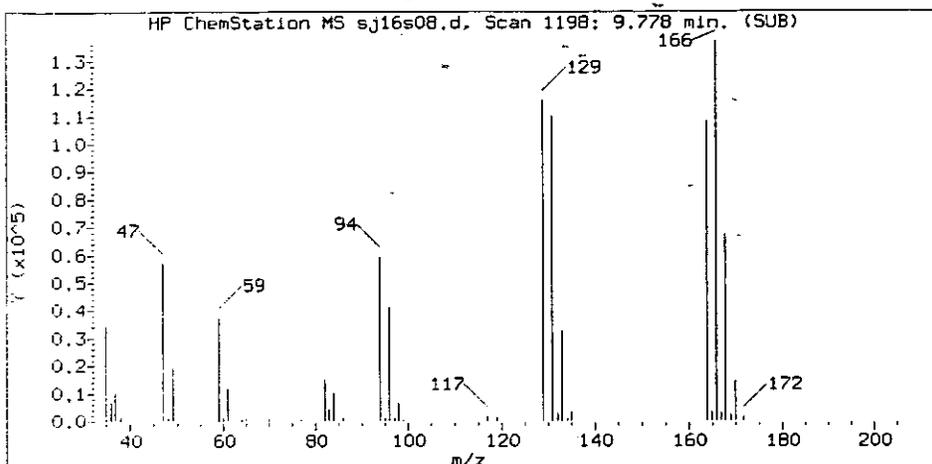
Sample Name: 16WAT

Lab Sample ID: 5621918

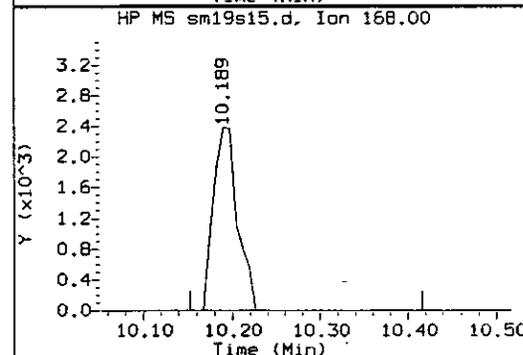
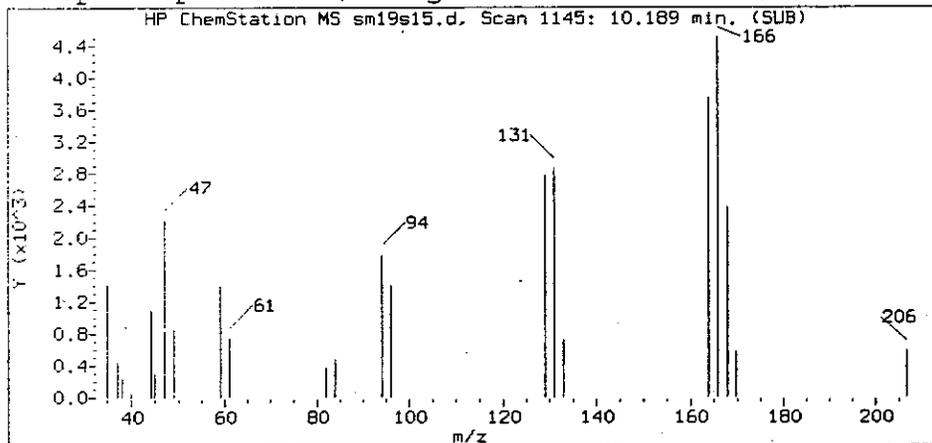
Compound Number : 26
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 590
 Retention Time (minutes) : 6.119
 Quant Ion : 96.0
 Area (flag) : 35021
 Concentration (ug/L) : 0.5118

WAT09 0000

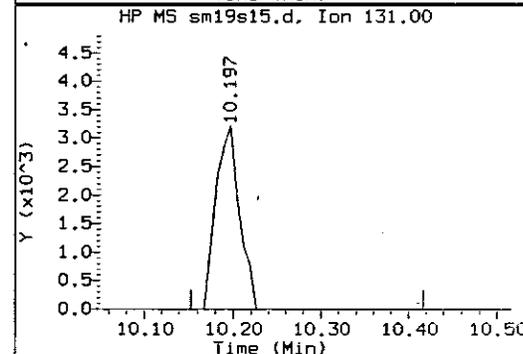
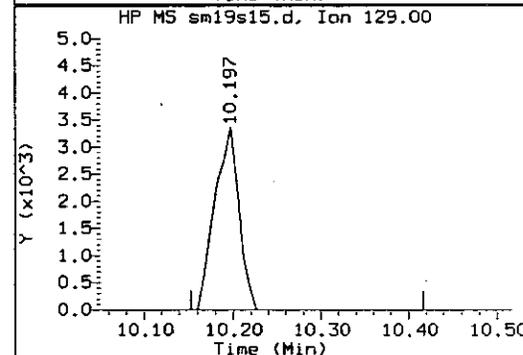
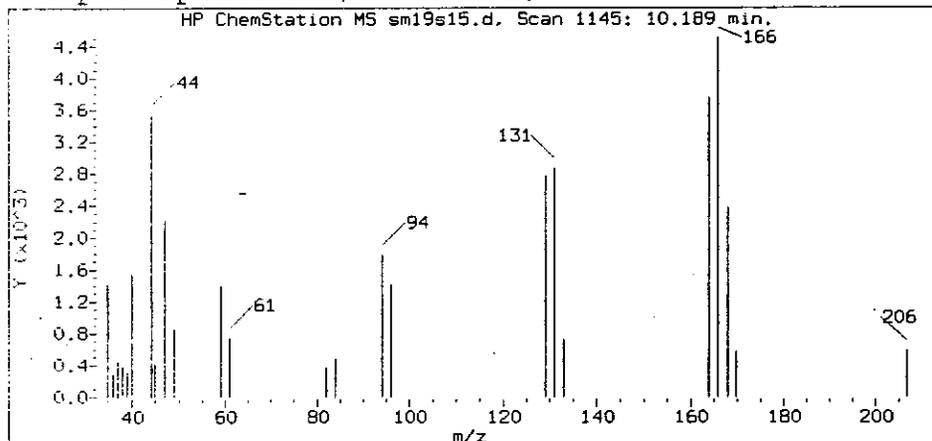
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s15.d
 Injection date and time: 20-MAR-2009 00:24

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 16WAT

Lab Sample ID: 5621918

Compound Number : 58
 Compound Name : Tetrachloroethene
 Scan Number : 1145
 Retention Time (minutes) : 10.189
 Quant Ion : 166.0
 Area (flag) : 8527
 Concentration (ug/L) : 0.1347

WAT189 0001

BREWA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621919

File: /chem/SH08359.i/09mar19a.b/sml9s16.d
Sample: BREWA;5621919;1;0;;;DRAPER;
Injected At:20-MAR-2009 00:51
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vc)
Prep Factor: 1.00
Units: ug/L Bottle Code: 39A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.777(0.007) | 816 | 96 | 1135430(-18) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(-0.001) | 174 | 222078 | 4.820 | 96% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.277(-0.002) | 152 | 185560 | 4.544 | 91% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | 2.145(-0.002) | 85 | 94475 | 1.013 | 1.01 | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | 2.423(-0.002) | 62 | 84051 | 0.441 | 0.44 | | J | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | 2.878(-0.002) | 64 | 1049789 | 10.516 | 10.52 | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | 3.802(-0.001) | 96 | 104014 | 1.451 | 1.45 | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | 4.367(-0.001) | 84 | 104957 | 1.746 | 1.75 | | | 0.30 | 0.50 |
| 20) trans 1,2-Dichloroethene | (1) | 4.733(0.000) | 96 | 14468 | 0.186 | 0.19 | | J | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | 5.298(0.000) | 63 | 6832429 | 35.872 | 35.87 | | E | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.127(0.000) | 96 | 462075 | 6.540 | 6.54 | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | 7.417(0.000) | 78 | 142752 | 0.558 | 0.56 | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | 8.239(0.000) | 95 | 67745 | 0.950 | 0.95 | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | 8.503(-0.001) | 63 | 18066 | 0.203 | 0.20 | | J | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

BREWA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621919

File: /chem/SH08359.i/09mar19a.b/sm19s16.d
Sample: BREWA;5621919;1;0;;;DRAPER;
Injected At:20-MAR-2009 00:51
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA
Analyst:LCM01518
Instrument ID:SH08359.i
Standard Reference: sm19c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:39A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|-------------------------------|-----------|----------------|------|-------|-------------------|-------------------|-------------|-----------------|-------|------|
| 53) Toluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | 10.204(-0.002) | 166 | 25380 | 0.388 | 0.39 | | J | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | 10.996(-0.001) | 112 | 33699 | 0.249 | 0.25 | | J | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 67) m-p-Xylene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 69) Styrene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 71) Bromoform | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

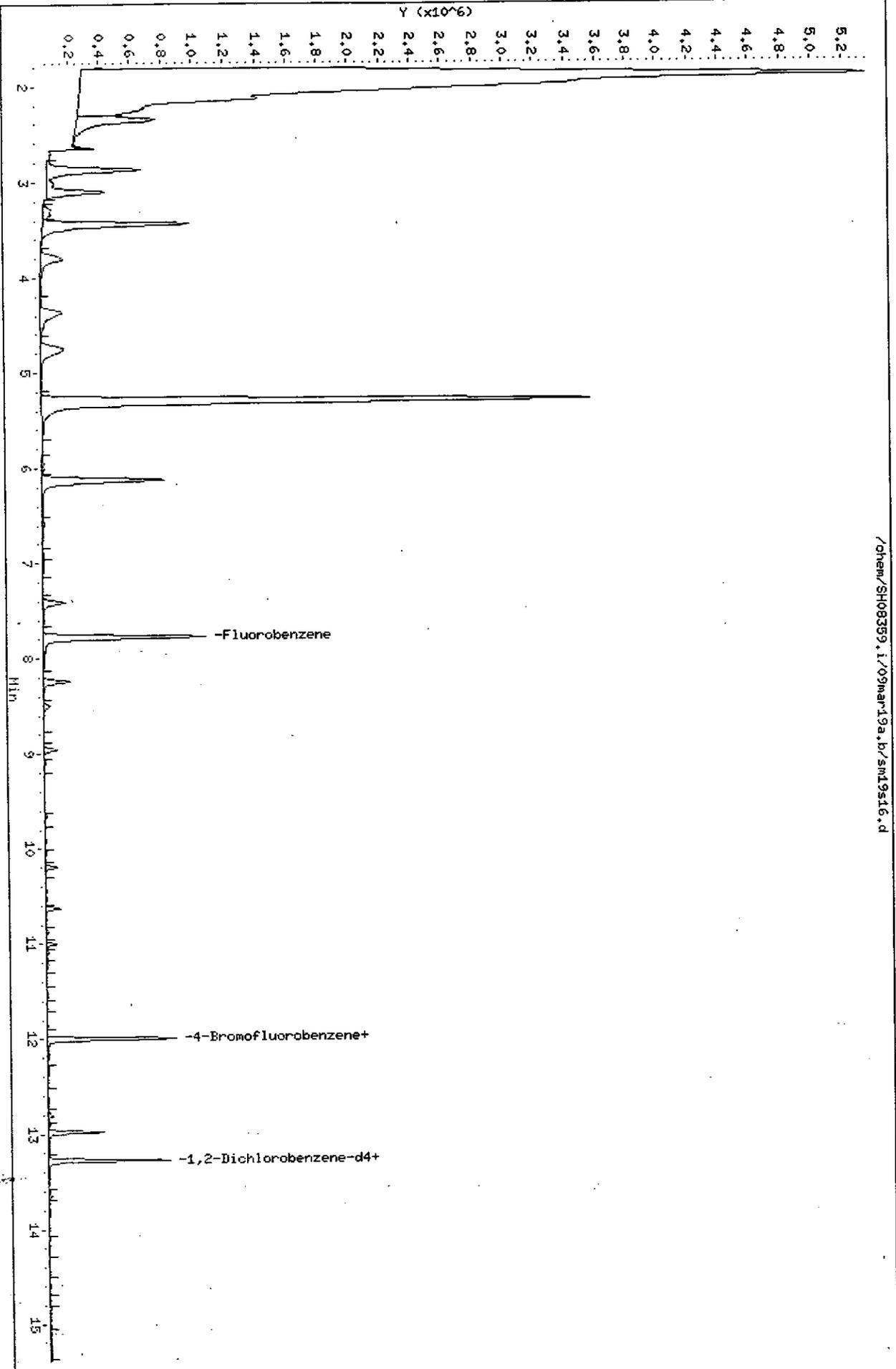
= RELATIVE RETENTION TIME OUT OF RANGE

Data File: /chem/SH08359.i/09mar19a.b/sml9s16.d
Date: 20-MAR-2009 00:51
Client ID: BREMA
Sample Info: BREMA;5621919;1;0;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: LCH01518
Column diameter: 0.25

/chem/SH08359.i/09mar19a.b/sml9s16.d

Handwritten signature
3/13/09



Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 00:51 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

Sample Name: BREWA

Lab Sample ID: 5621919

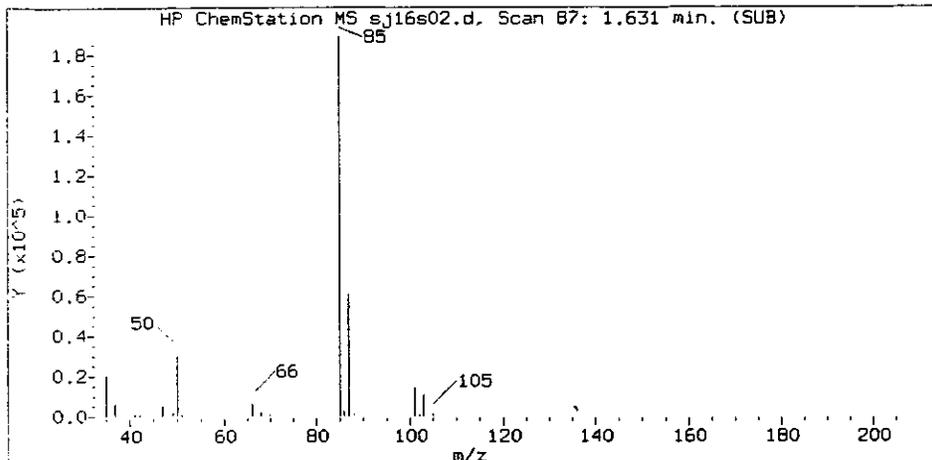
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|------------------------------|--------------|--------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.145 | 85 | 94475M | 1.013 |
| 3) Vinyl Chloride | (1) | 2.423 | 62 | 84051 | 0.441 |
| 5) Chloroethane | (1) | 2.878 | 64 | 1049789 | 10.516 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 104014 | 1.451 |
| 17) Methylene Chloride | (1) | 4.367 | 84 | 104957 | 1.746 |
| 20) trans-1,2-Dichloroethene | (1) | 4.733 | 96 | 14468 | 0.186 |
| 22) 1,1-Dichloroethane | (1) | 5.298 | 63 | 6832429 | 35.872 |
| 26) cis-1,2-Dichloroethene | (1) | 6.127 | 96 | 462075 | 6.540 |
| 39) Benzene | (1) | 7.417 | 78 | 142752 | 0.558 |
| 42) *Fluorobenzene | (1) | 7.777 | 96 | 1135430 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 67745 | 0.950 |
| 44) 1,2-Dichloropropane | (1) | 8.503 | 63 | 18066 | 0.203 |
| 58) Tetrachloroethene | (1) | 10.204 | 166 | 25380 | 0.388 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 33699 | 0.249 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 130438 | 1.408 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 222078 | 4.820 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 185560 | 4.544 |

M = Compound was manually integrated.

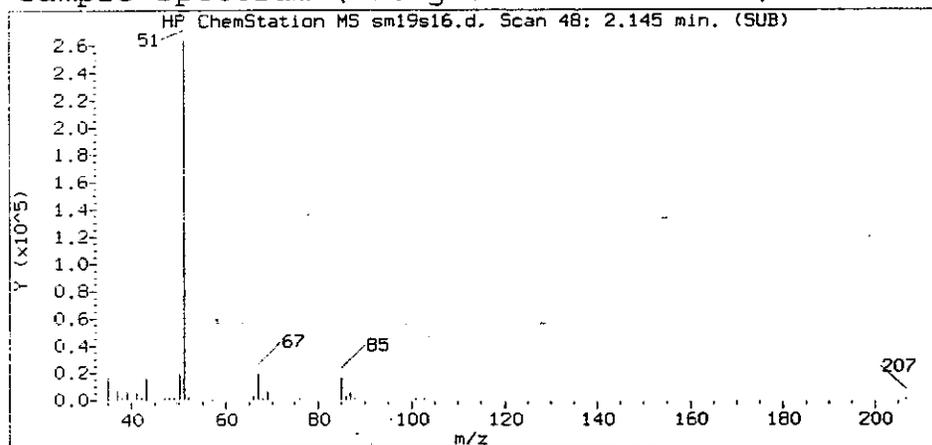
* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

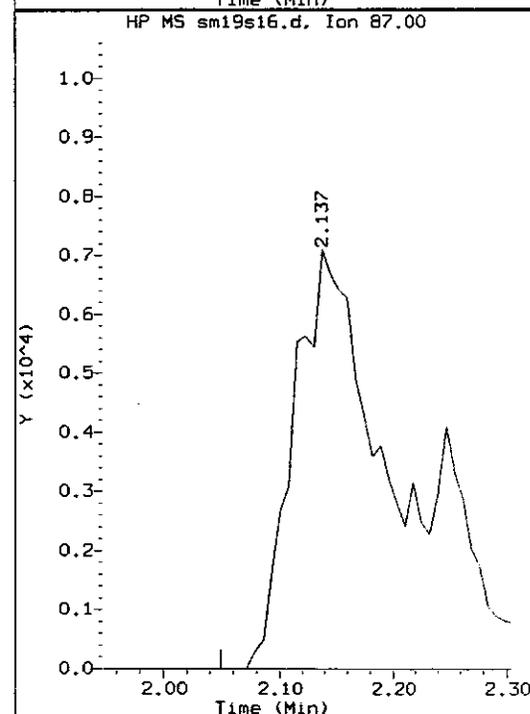
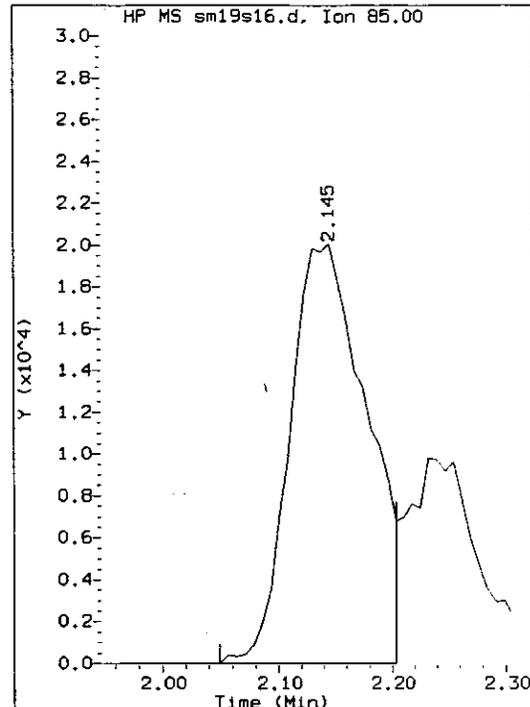
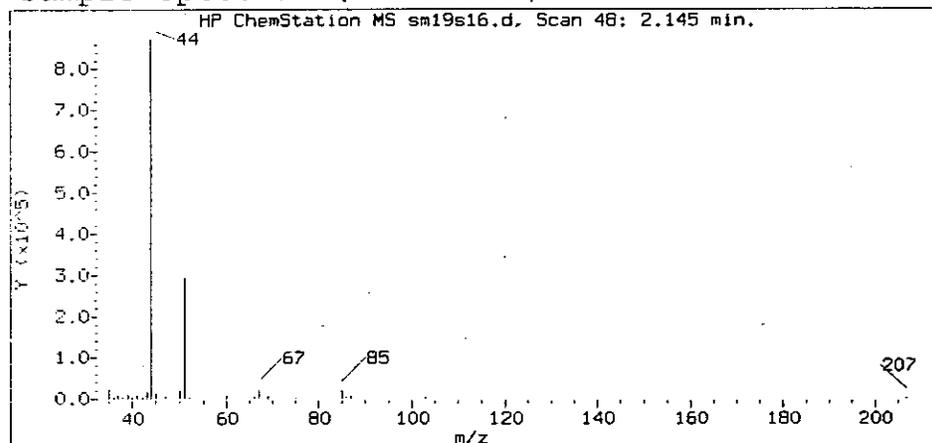
Reference Standard Spectrum for Dichlorodifluoromethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

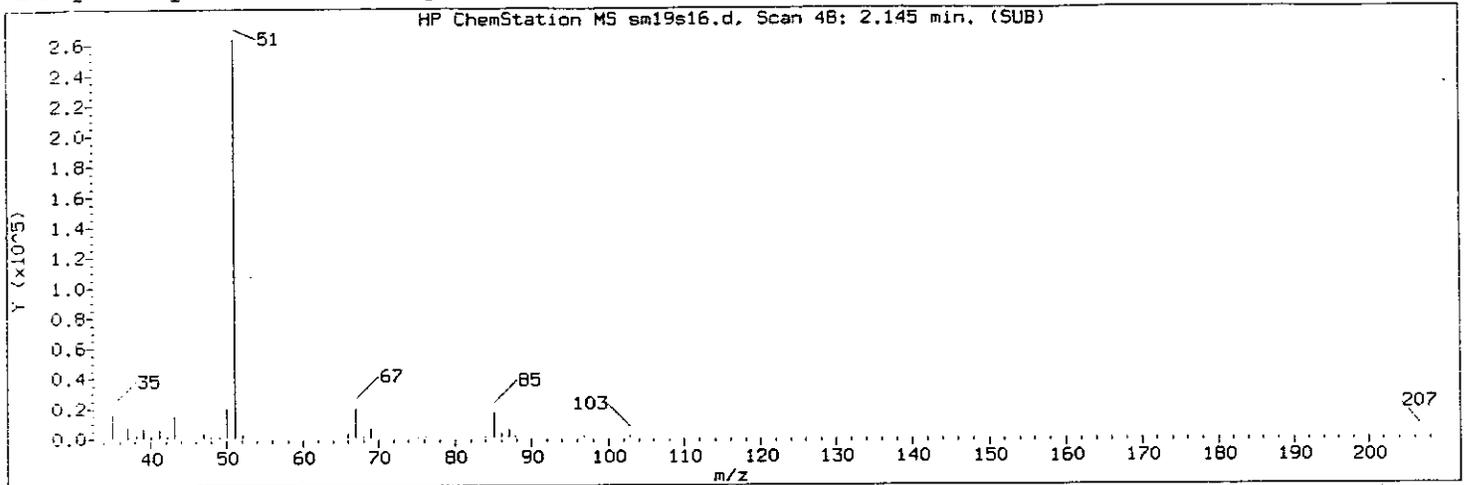
Sample Name: BREWA

Lab Sample ID: 5621919

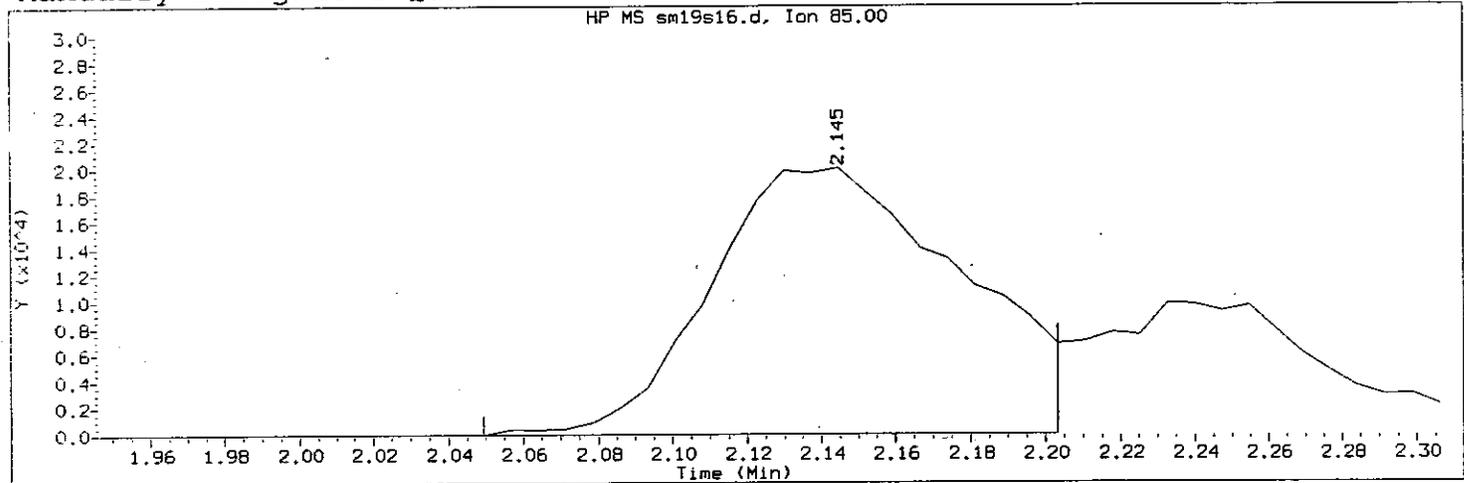
Compound Number : 1
 Compound Name : Dichlorodifluoromethane
 Scan Number : 48
 Retention Time (minutes) : 2.145
 Quant Ion : 85.0
 Area (flag) : 94475 M
 Concentration (ug/L) : 1.0134

WATER 8887

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 00:51 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

Sample Name: BREWA Lab Sample ID: 5621919

Compound Number : 1
 Compound Name : Dichlorodifluoromethane
 Scan Number : 48
 Retention Time (minutes): 2.145
 Quant Ion : 85
 Area (flag) : 94475 M
 Concentration (ug/L) : 1.0134
 Integration start scan : 34 Integration stop scan: 55
 Y at integration start : 0 Y at integration end: 0

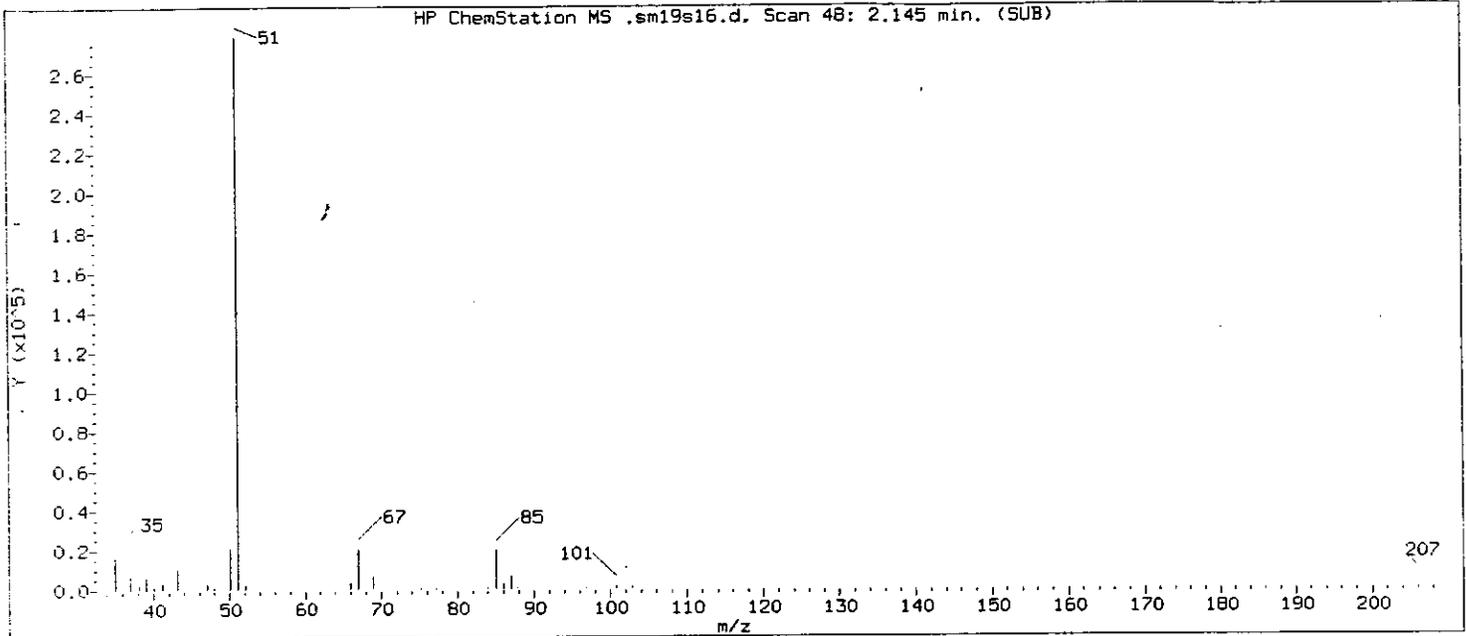
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MM/m 3/23/09

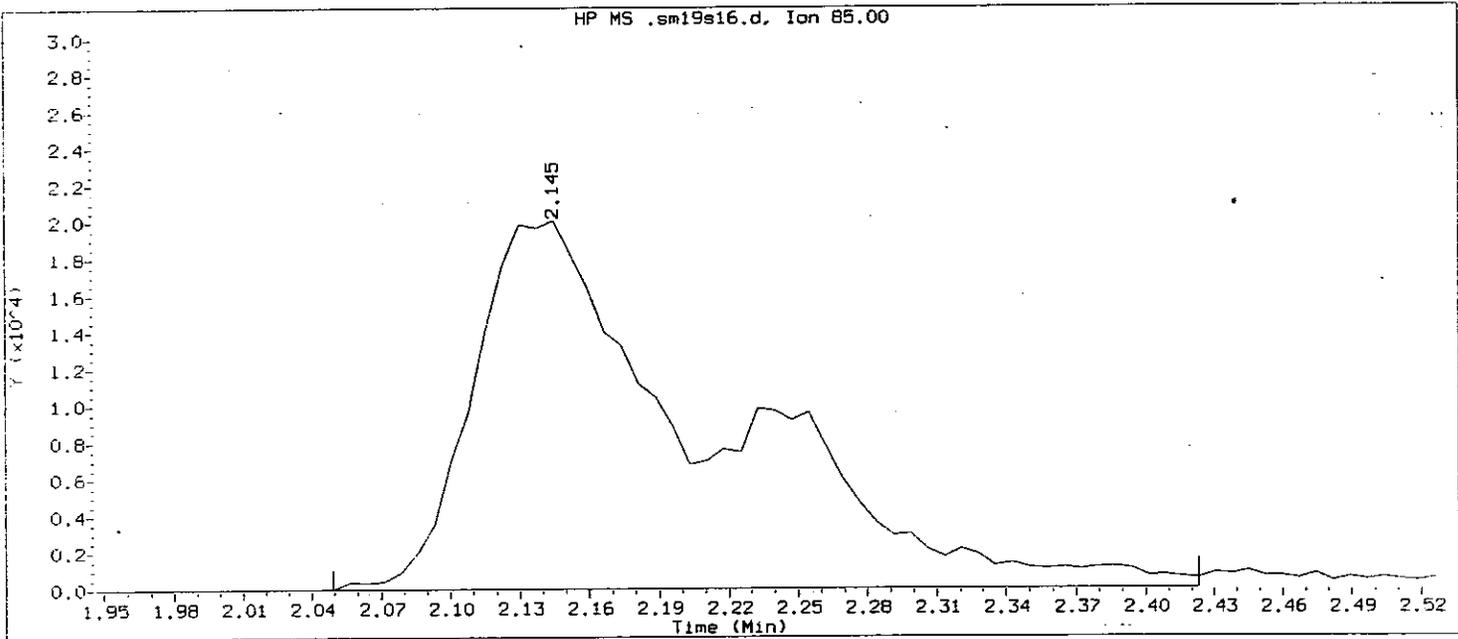
54789 8588

GC/MS audit/management approval: MM/m 3/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d Instrument ID: SH08359.i
Injection date and time: 20-MAR-2009 00:51 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV3
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 20-Mar-2009 04:42 Automation

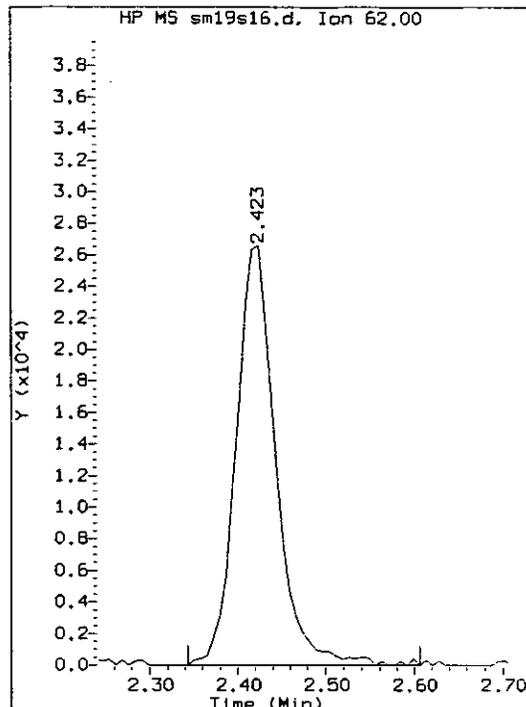
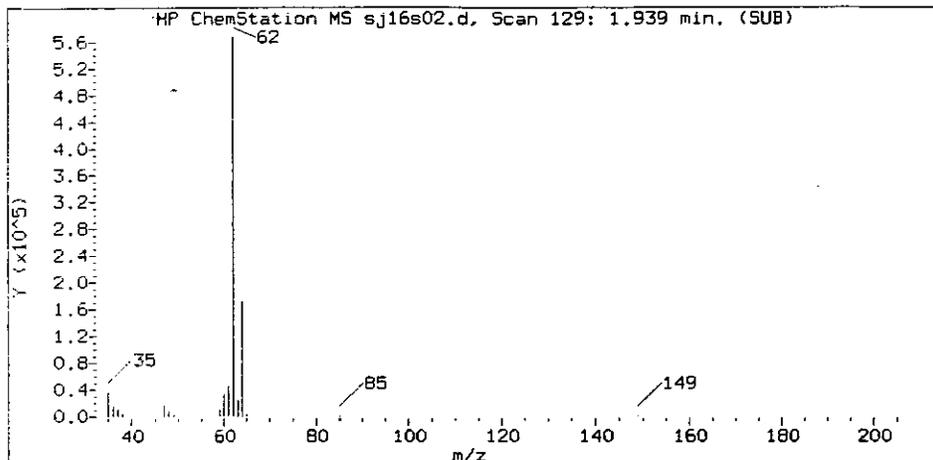
Sample Name: BREWA

Lab Sample ID: 5621919

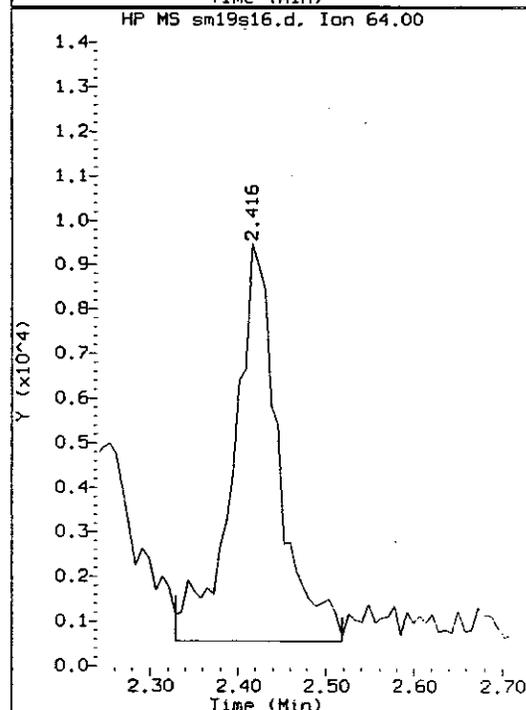
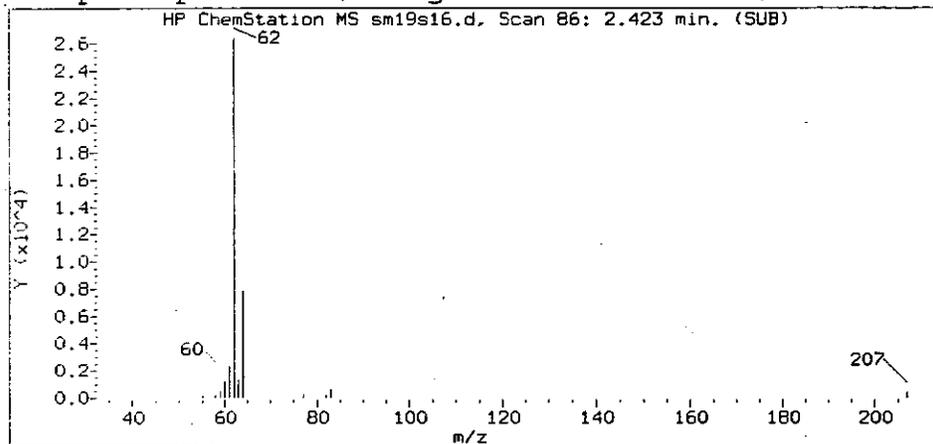
Compound Number : 1
Compound Name : Dichlorodifluoromethane
Scan Number : 48
Retention Time (minutes): 2.145
Quant Ion : 85
Area : 142491
Concentration (ug/L) : 1.5285
Integration start scan : 34 Integration stop scan: 85
Y at integration start : 0 Y at integration end: 0

WATER 8889

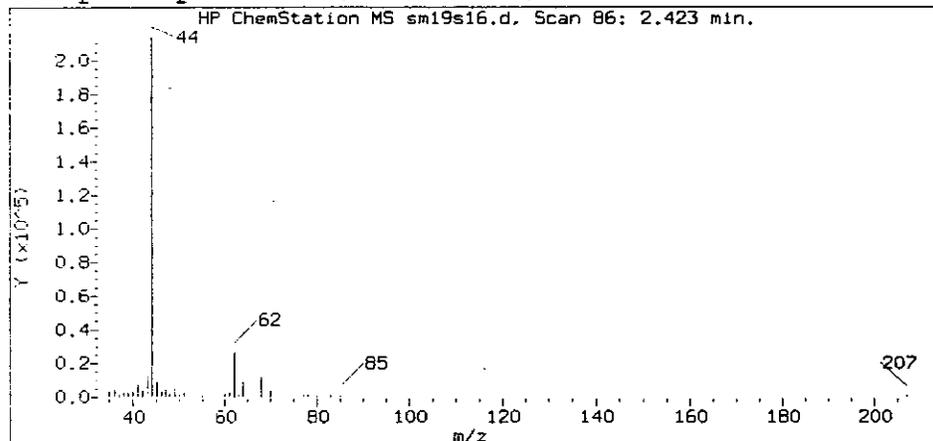
Reference Standard Spectrum for Vinyl Chloride



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

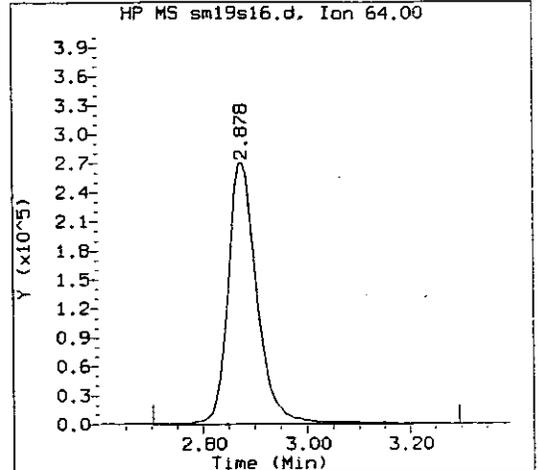
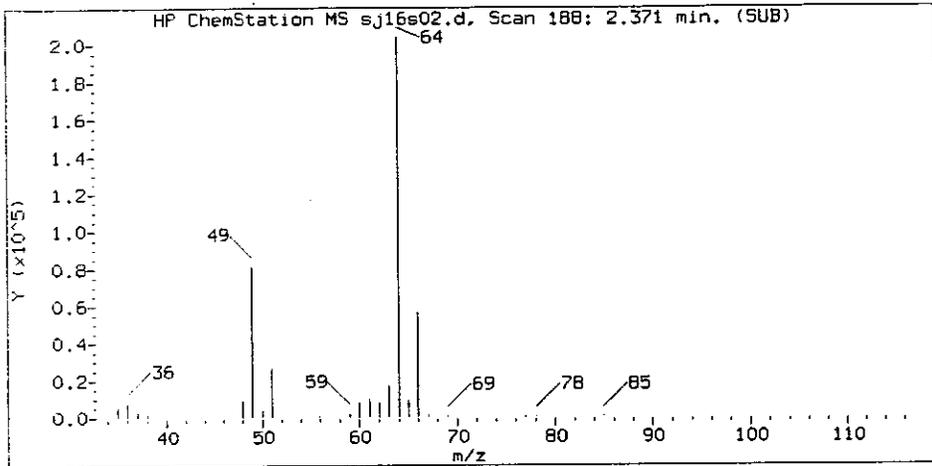
Sample Name: BREWA

Lab Sample ID: 5621919

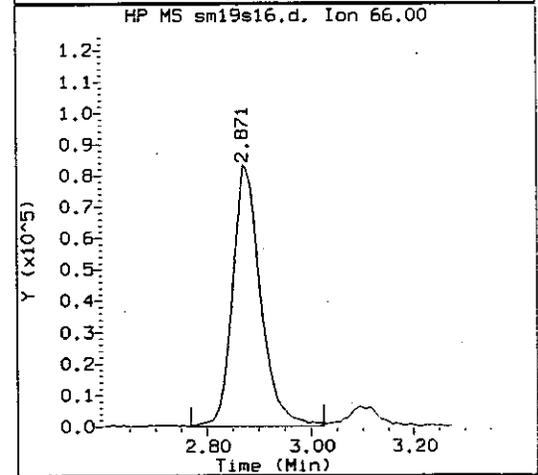
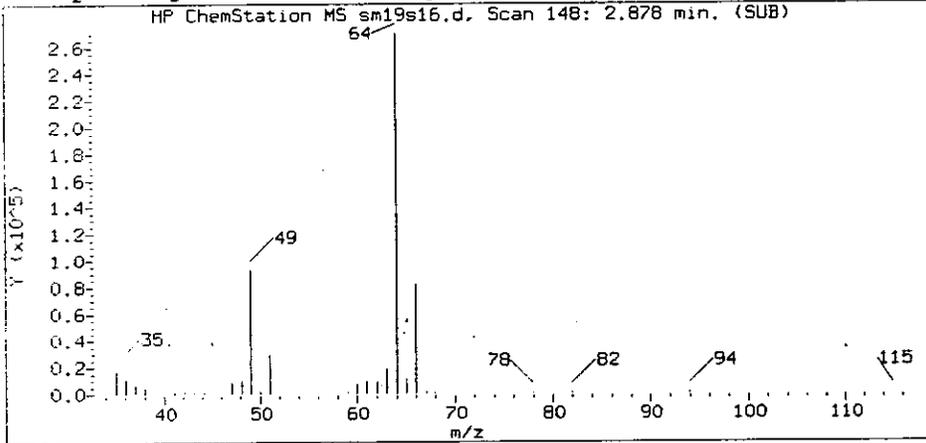
Compound Number : 3
 Compound Name : Vinyl Chloride
 Scan Number : 86
 Retention Time (minutes): 2.423
 Quant Ion : 62.0
 Area (flag) : 84051
 Concentration (ug/L) : 0.4409

WAT09 8898

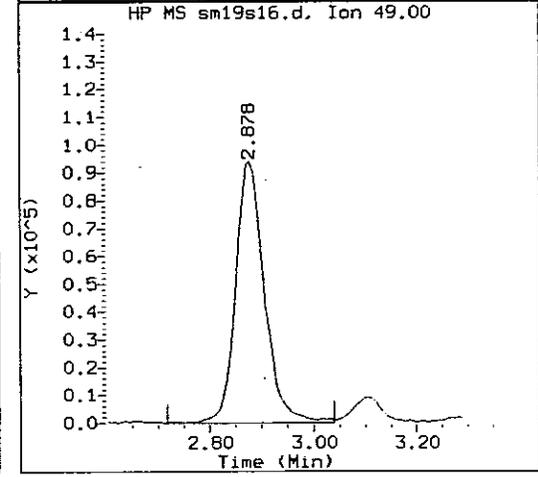
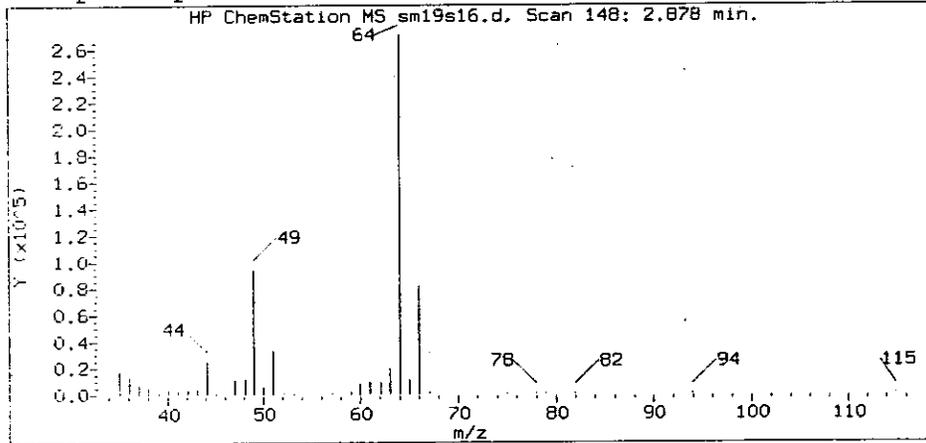
Reference Standard Spectrum for Chloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

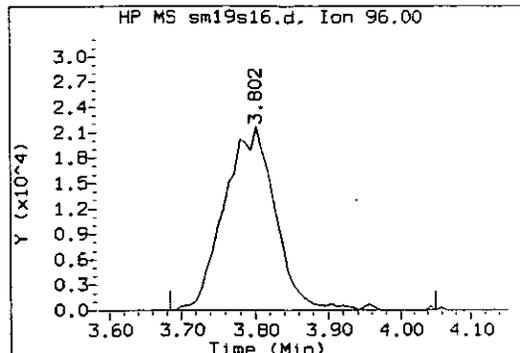
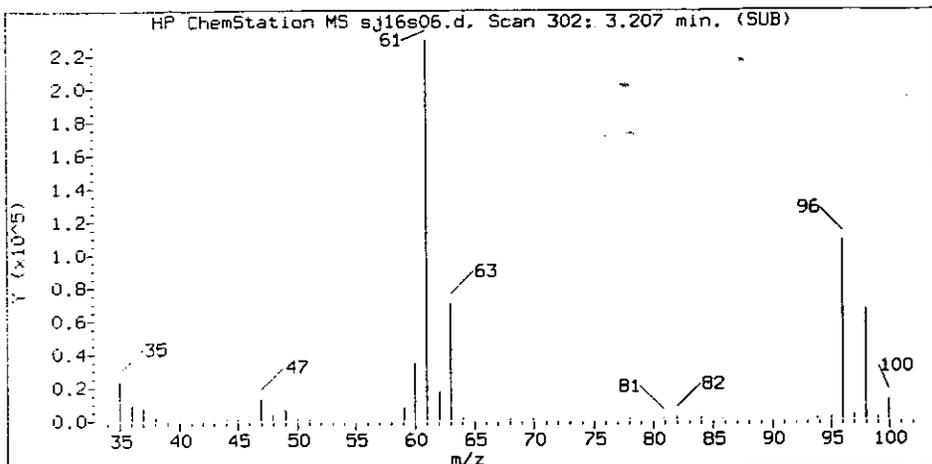
Sample Name: BREWA

Lab Sample ID: 5621919

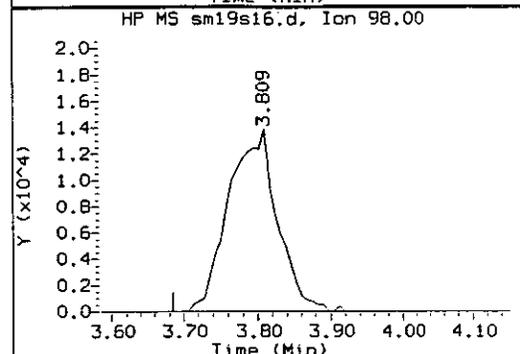
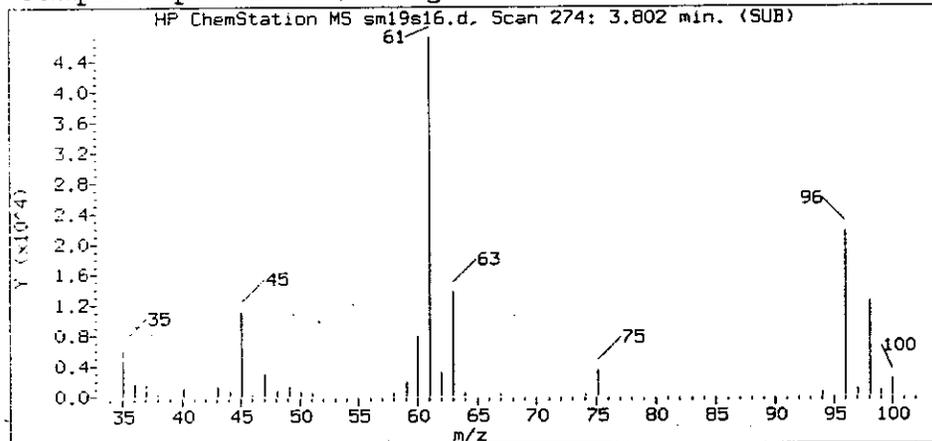
Compound Number : 5
 Compound Name : Chloroethane
 Scan Number : 148
 Retention Time (minutes) : 2.878
 Quant Ion : 64.0
 Area (flag) : 1049789
 Concentration (ug/L) : 10.5162

WATER 6091

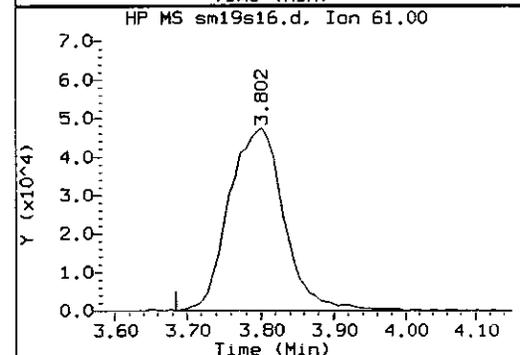
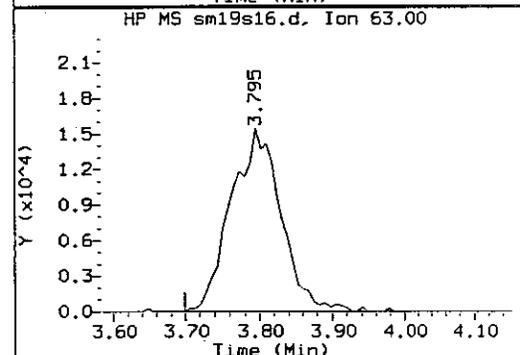
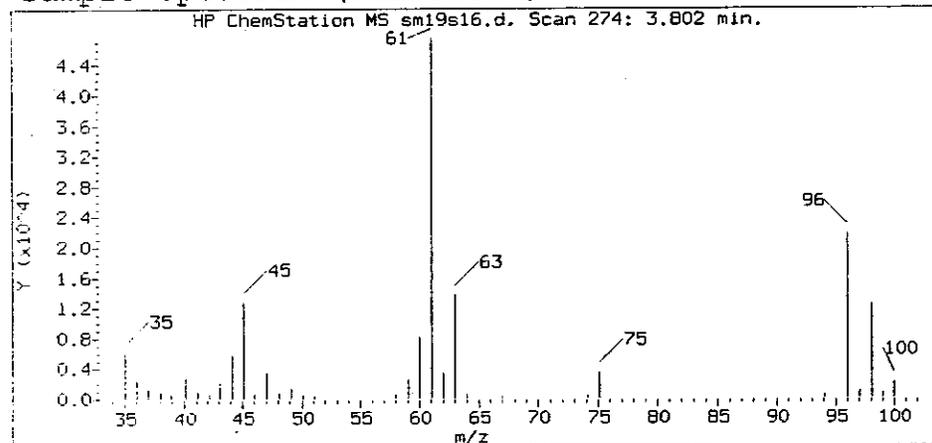
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

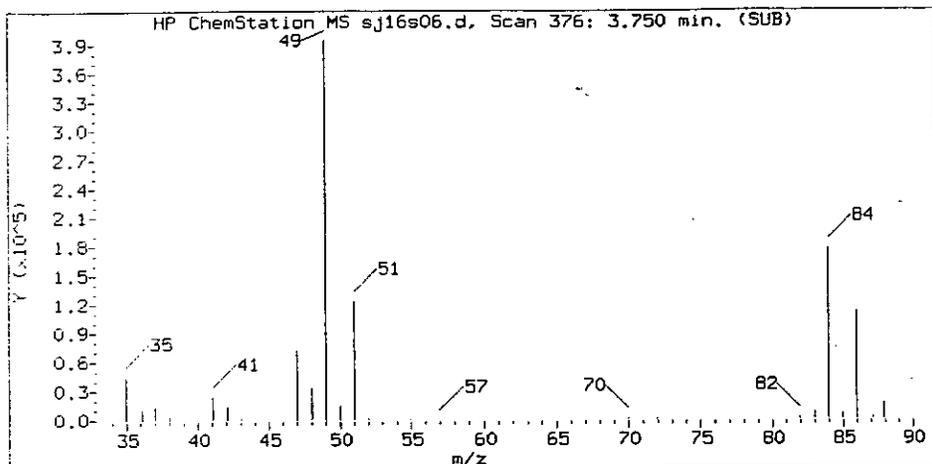
Sample Name: BREWA

Lab Sample ID: 5621919

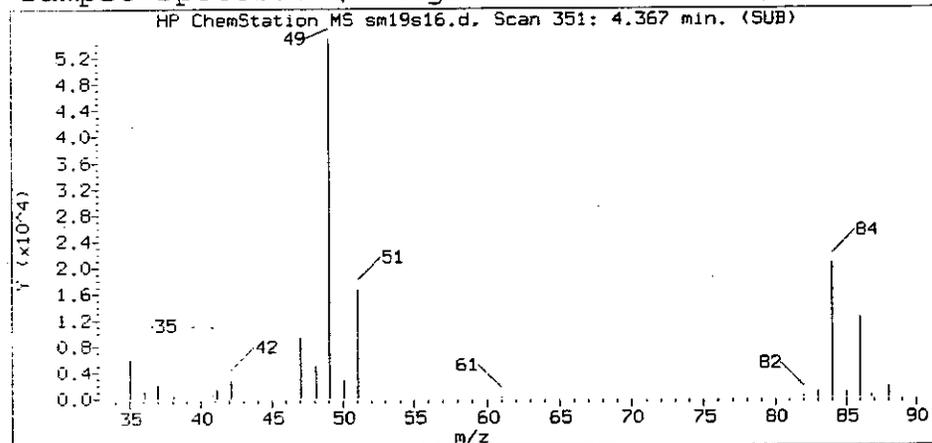
Compound Number : 10
 Compound Name : 1,1-Dichloroethene
 Scan Number : 274
 Retention Time (minutes) : 3.802
 Quant Ion : 96.0
 Area (flag) : 104014
 Concentration (ug/L) : 1.4509

WATER 689Z

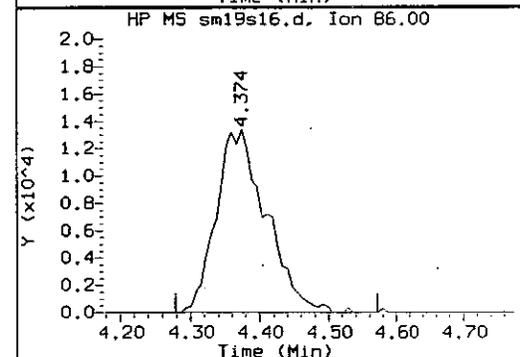
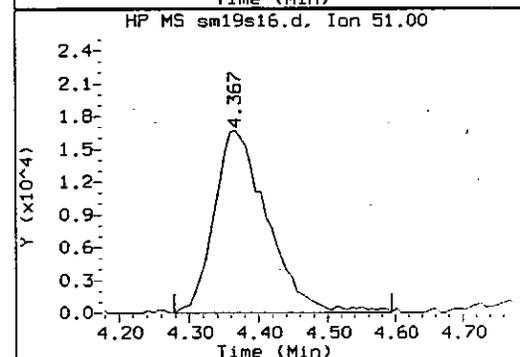
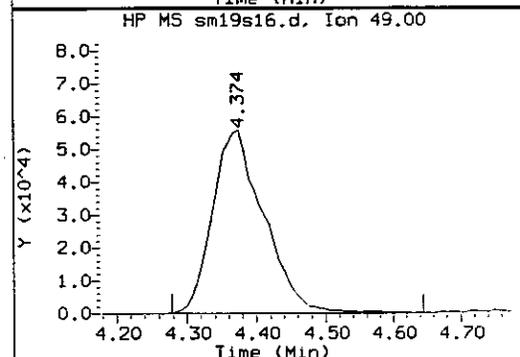
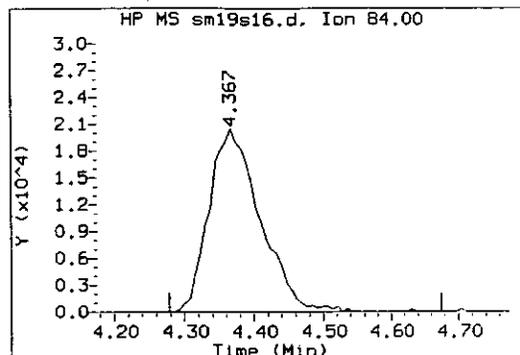
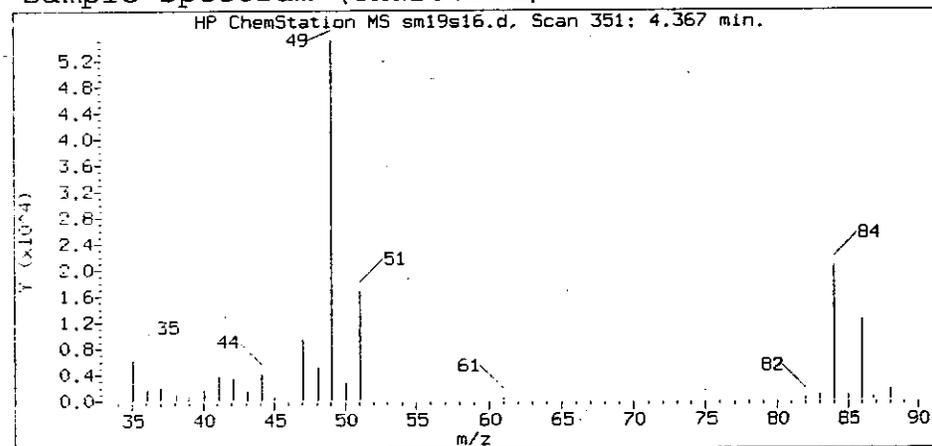
Reference Standard Spectrum for Methylene Chloride



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

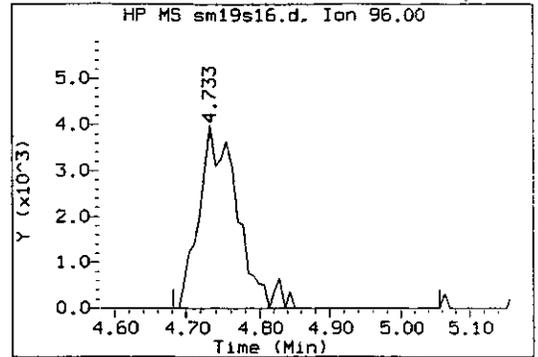
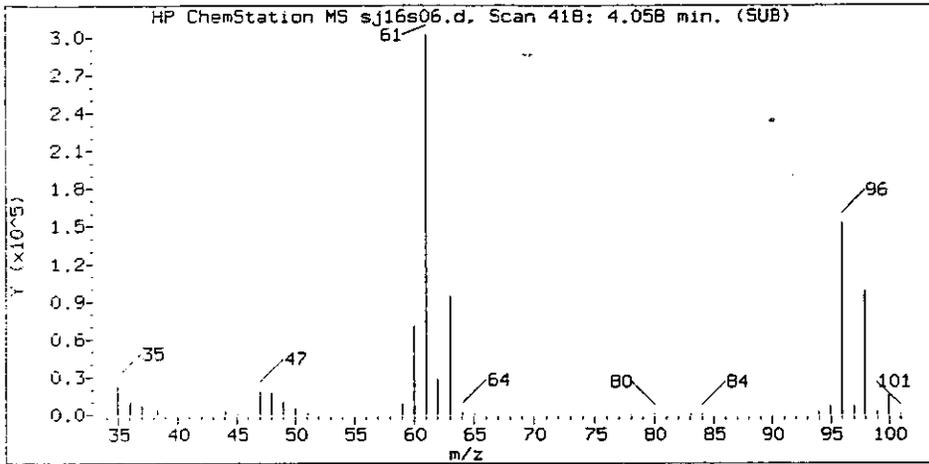
Sample Name: BREWA

Lab Sample ID: 5621919

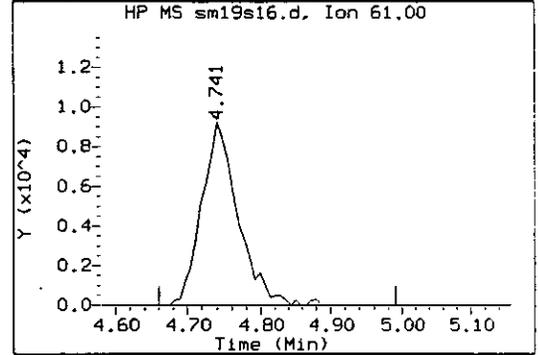
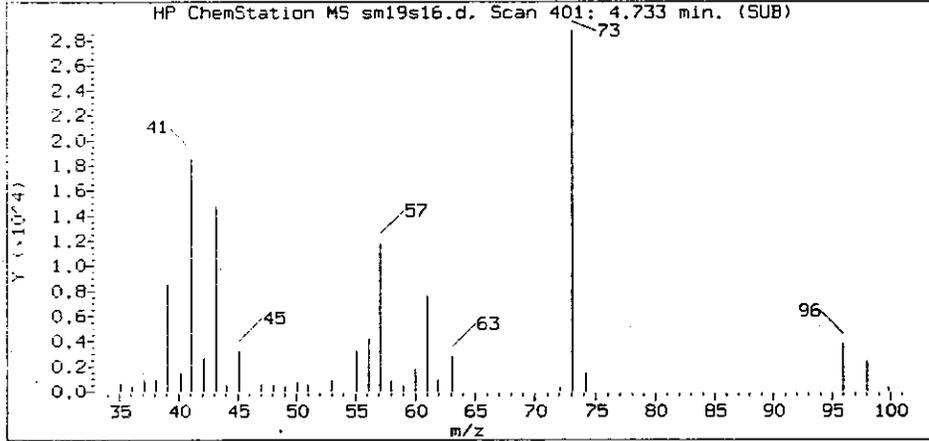
Compound Number : 17
 Compound Name : Methylene Chloride
 Scan Number : 351
 Retention Time (minutes) : 4.367
 Quant Ion : 84.0
 Area (flag) : 104957
 Concentration (ug/L) : 1.7457

000000000000

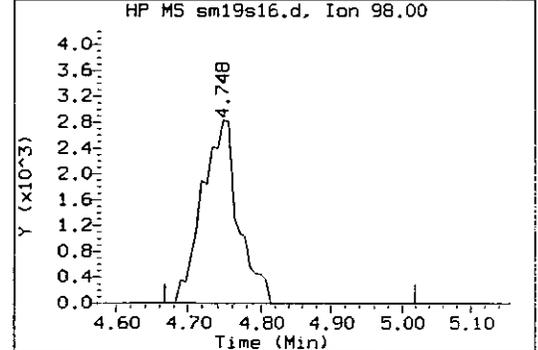
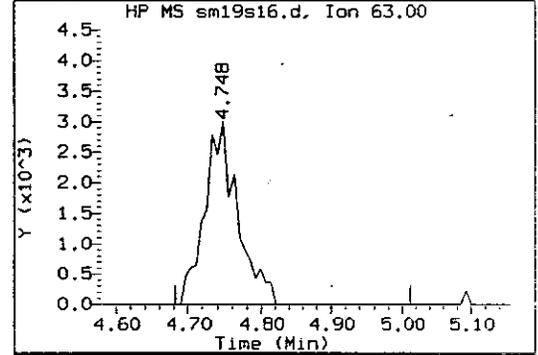
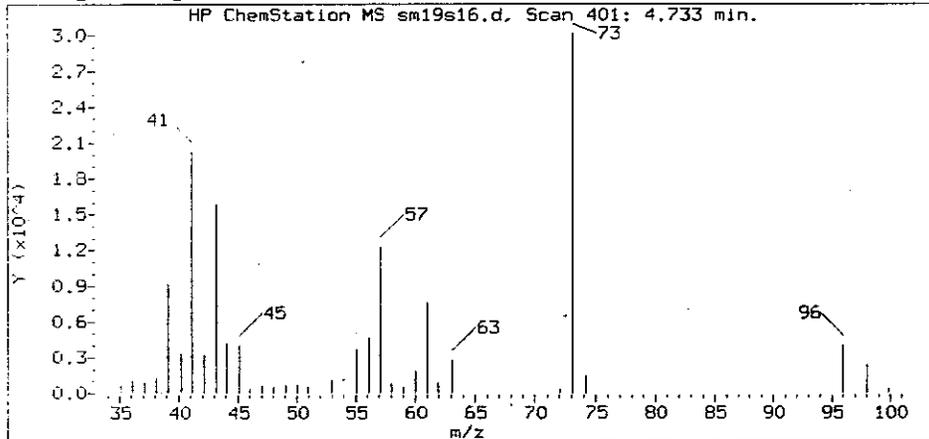
Reference Standard Spectrum for trans-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

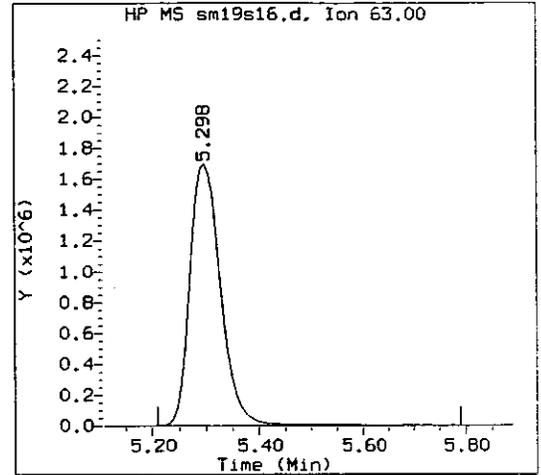
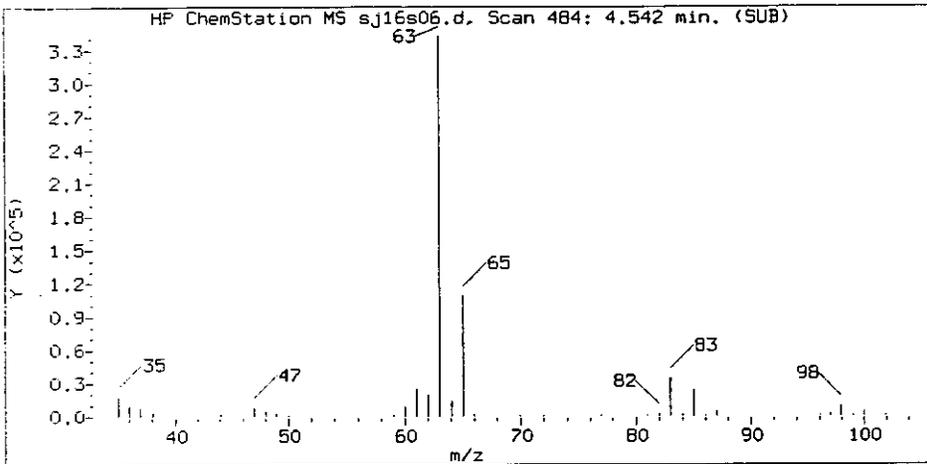
Sample Name: BREWA

Lab Sample ID: 5621919

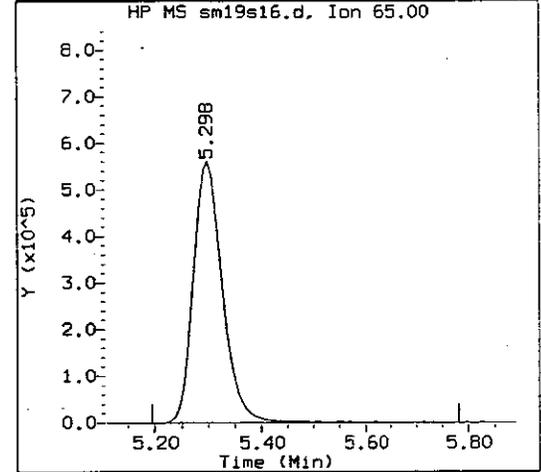
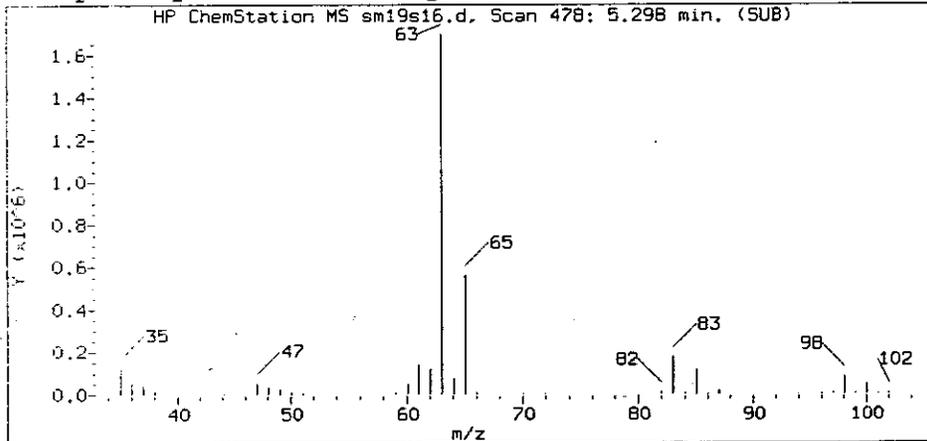
Compound Number : 20
 Compound Name : trans-1,2-Dichloroethene
 Scan Number : 401
 Retention Time (minutes) : 4.733
 Quant Ion : 96.0
 Area (flag) : 14468
 Concentration (ug/L) : 0.1862

WAT09 8894

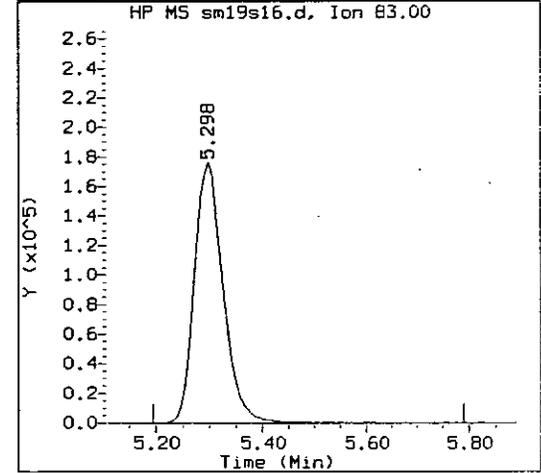
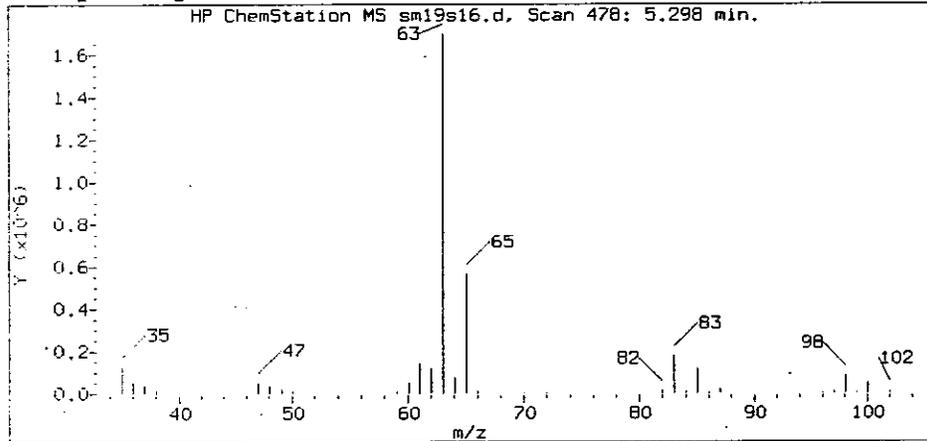
Reference Standard Spectrum for 1,1-Dichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

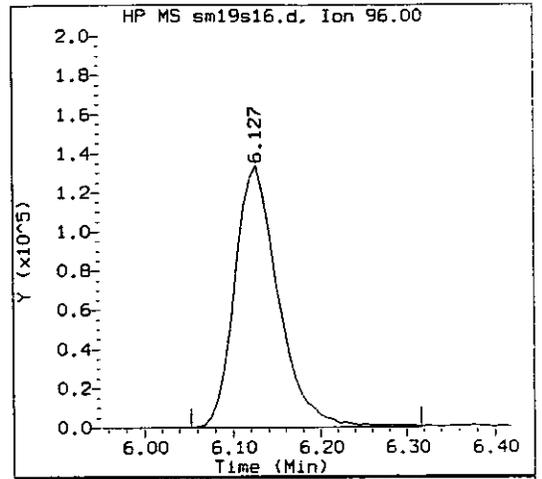
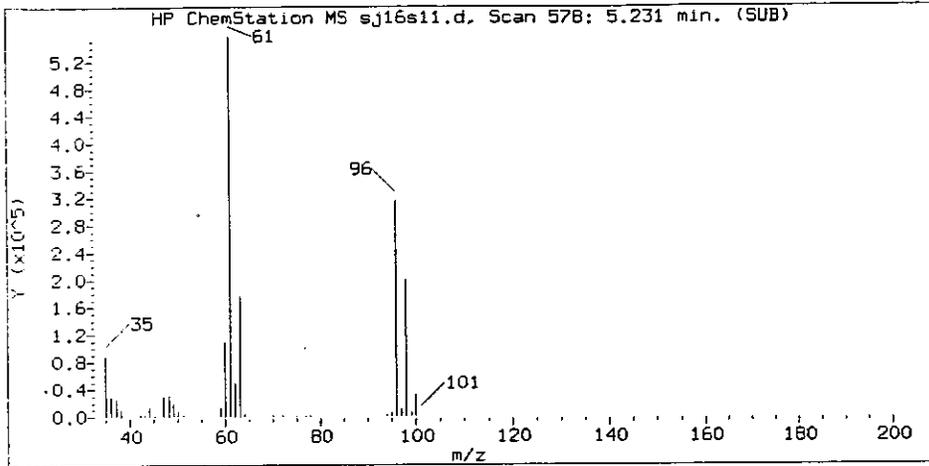
Sample Name: BREWA

Lab Sample ID: 5621919

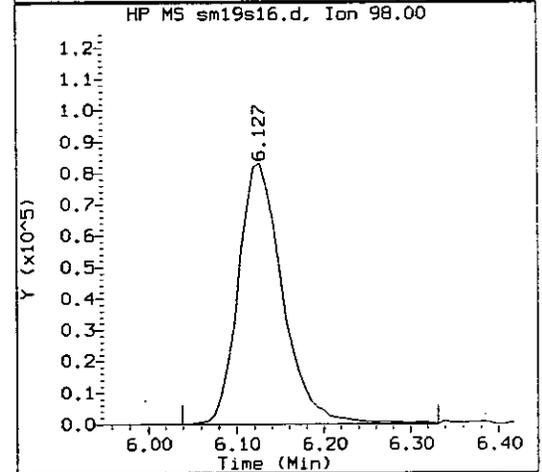
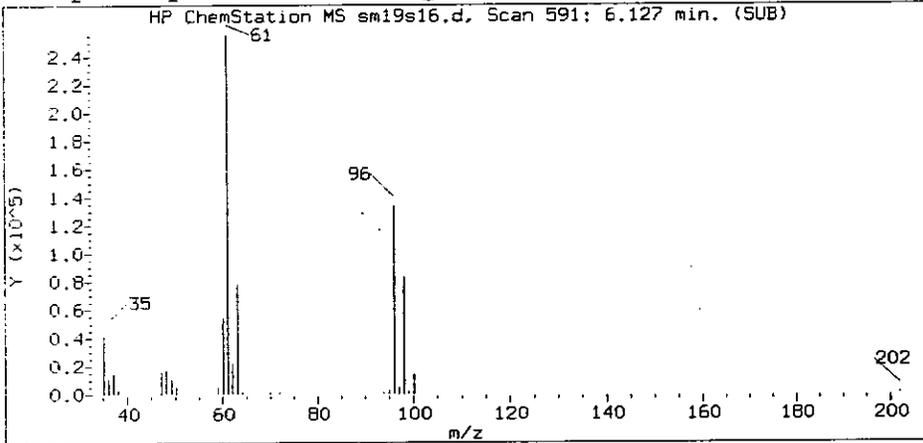
Compound Number : 22
 Compound Name : 1,1-Dichloroethane
 Scan Number : 478
 Retention Time (minutes) : 5.298
 Quant Ion : 63.0
 Area (flag) : 6832429
 Concentration (ug/L) : 35.8718

WAT69 8895

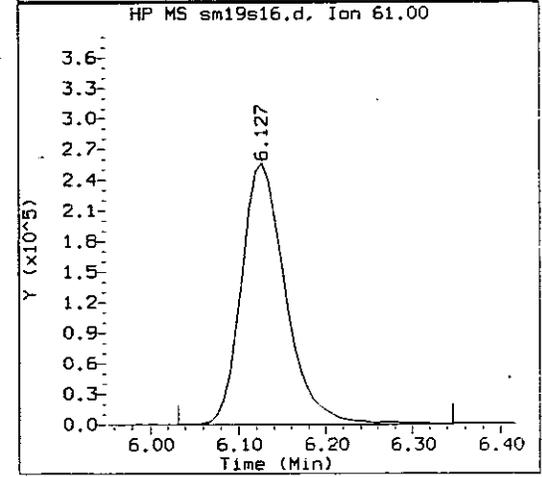
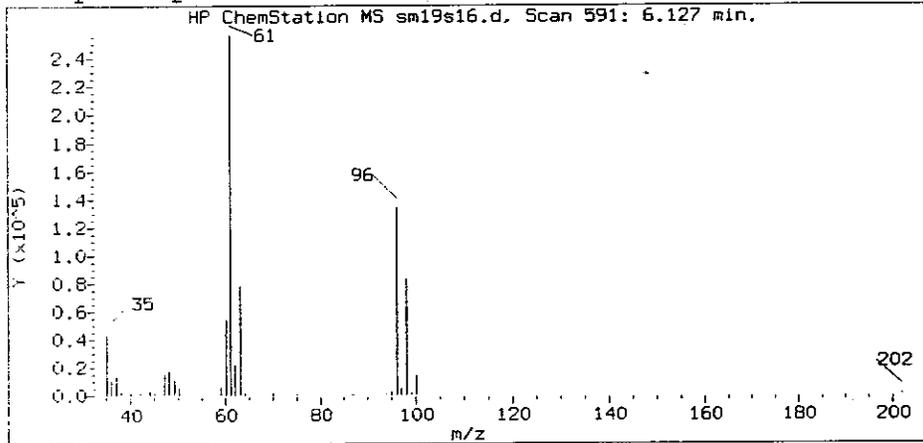
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

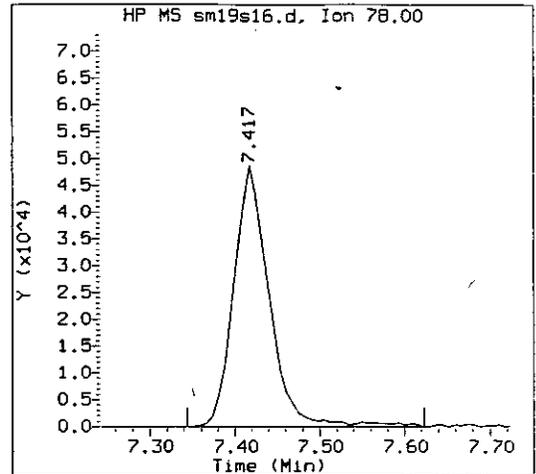
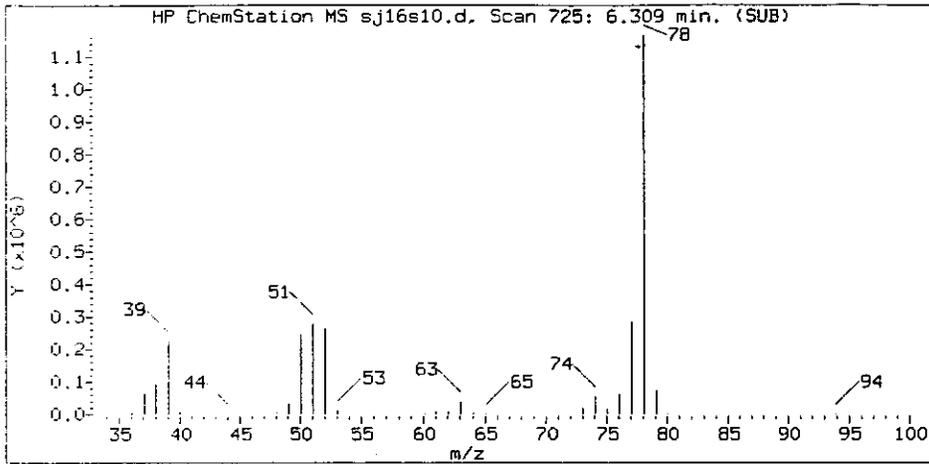
Sample Name: BREWA

Lab Sample ID: 5621919

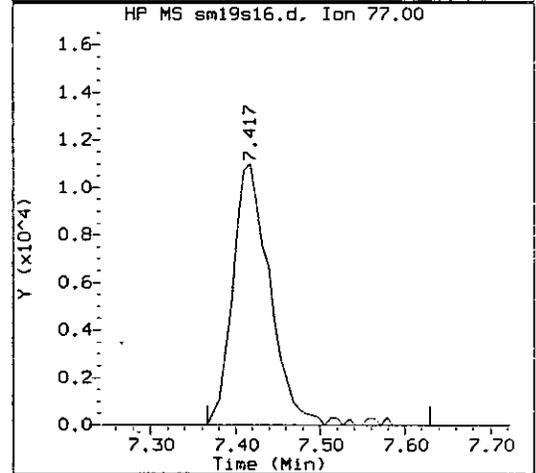
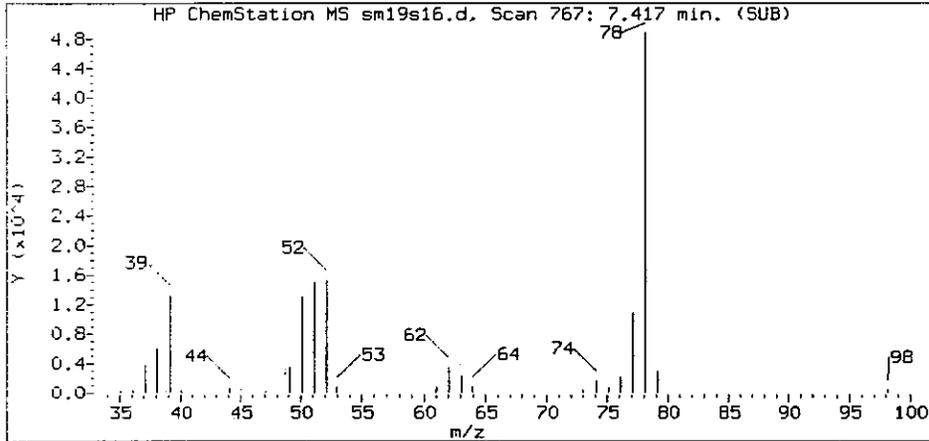
Compound Number : 26
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 591
 Retention Time (minutes) : 6.127
 Quant Ion : 96.0
 Area (flag) : 462075
 Concentration (ug/L) : 6.5405

03/23/09 08:06

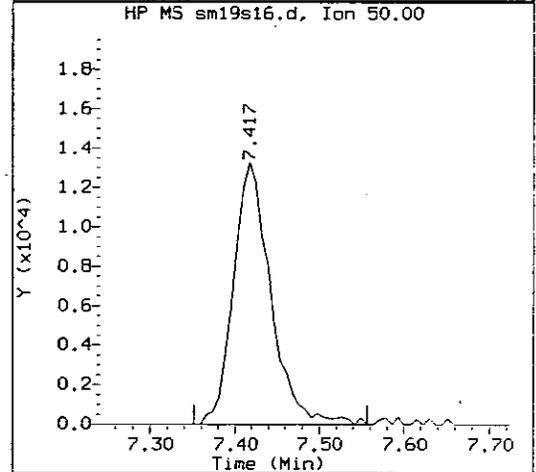
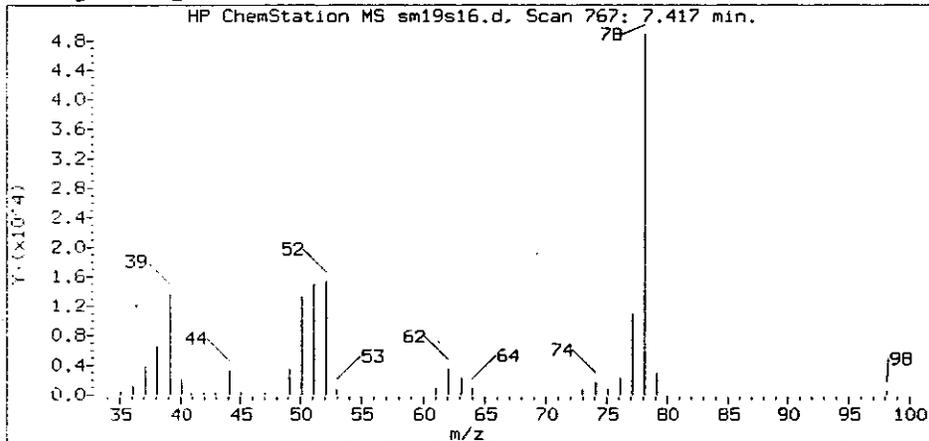
Reference Standard Spectrum for Benzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

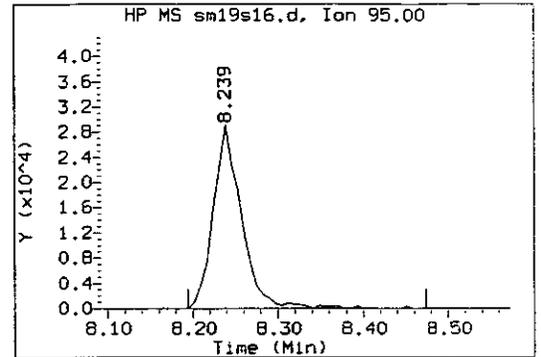
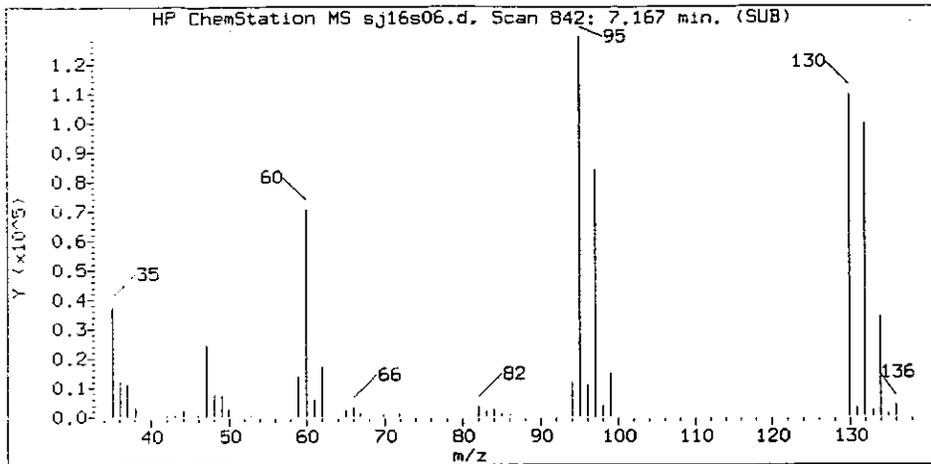
Sample Name: BREWA

Lab Sample ID: 5621919

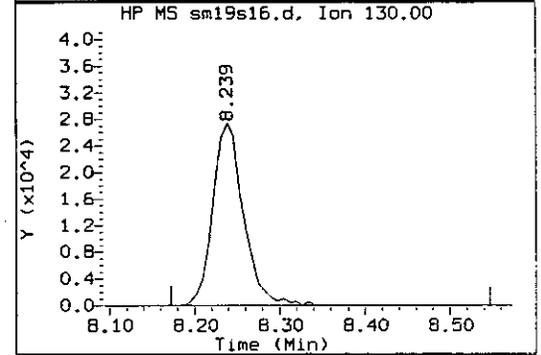
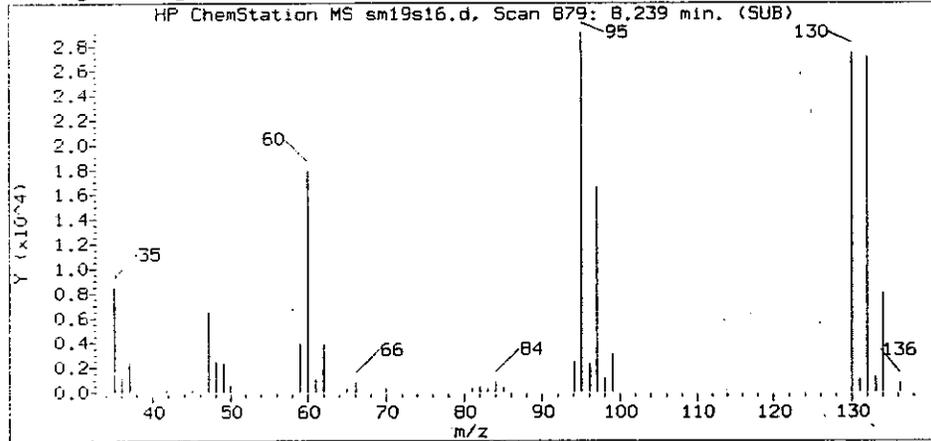
Compound Number : 39
 Compound Name : Benzene
 Scan Number : 767
 Retention Time (minutes): 7.417
 Quant Ion : 78.0
 Area (flag) : 142752
 Concentration (ug/L) : 0.5576

HAT89 8897

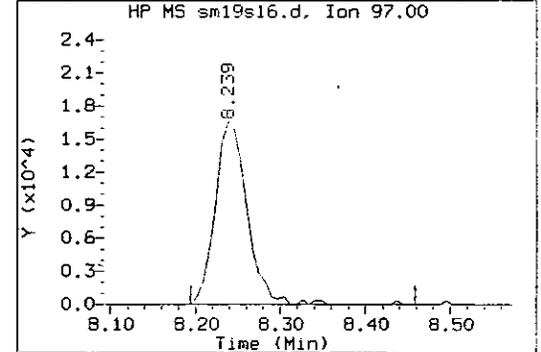
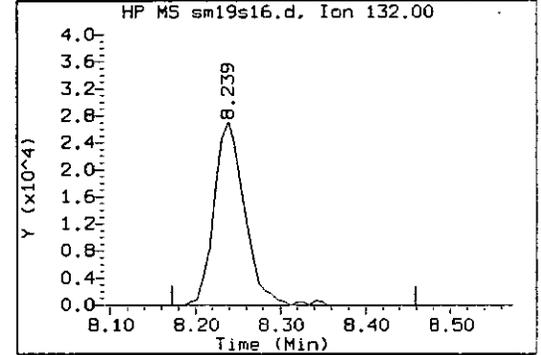
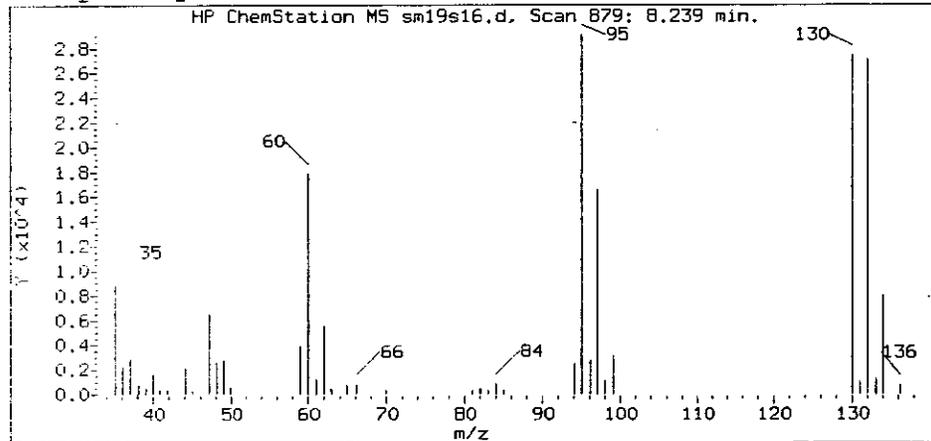
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

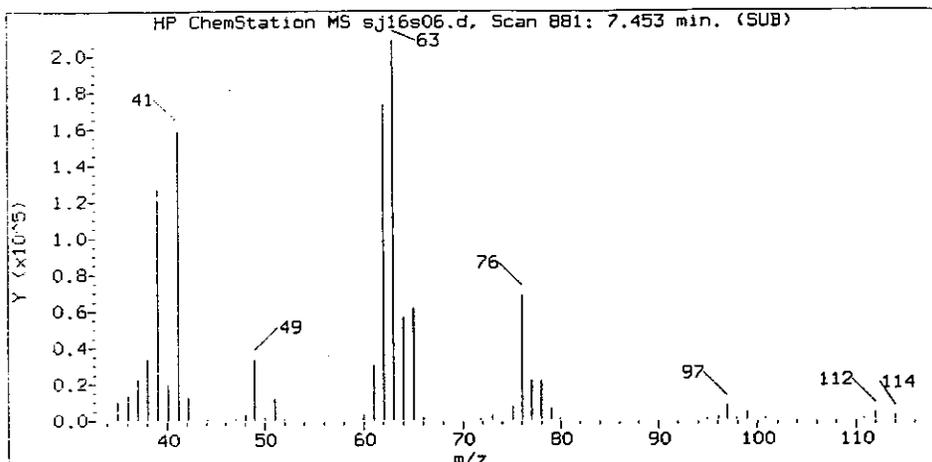
Sample Name: BREWA

Lab Sample ID: 5621919

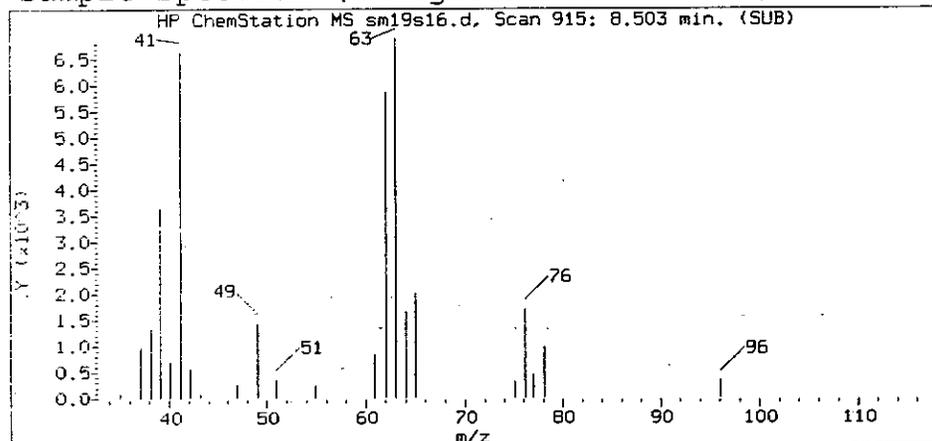
Compound Number : 43
 Compound Name : Trichloroethene
 Scan Number : 879
 Retention Time (minutes): 8.239
 Quant Ion : 95.0
 Area (flag) : 67745
 Concentration (ug/L) : 0.9500

WATERS 8698

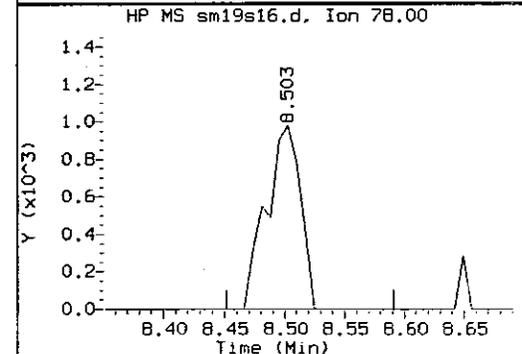
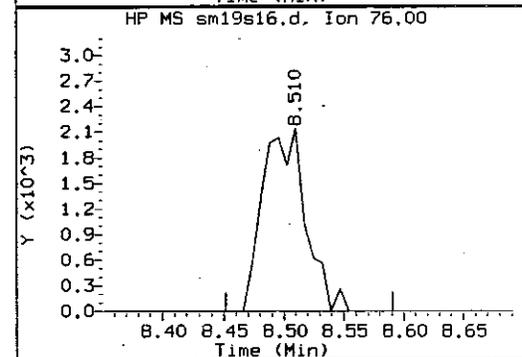
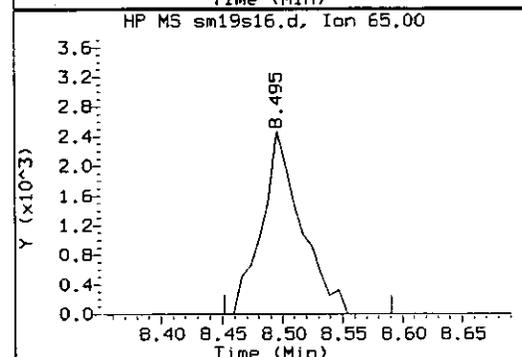
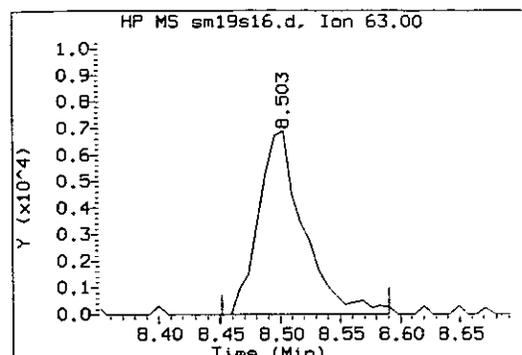
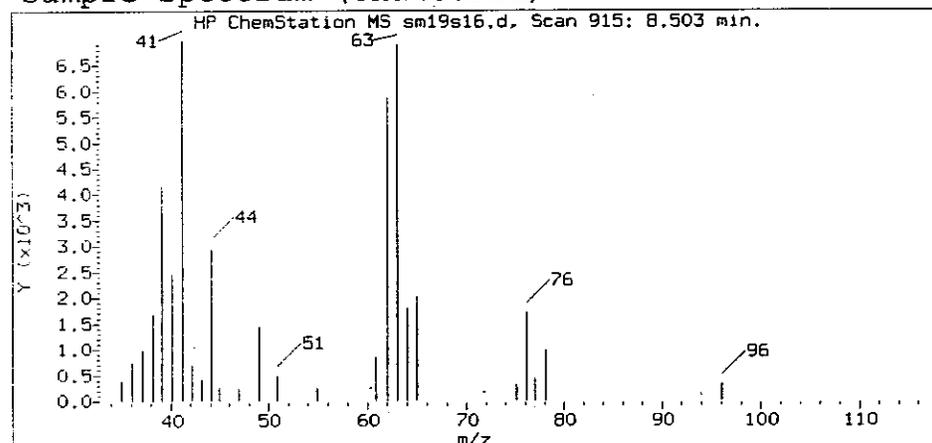
Reference Standard Spectrum for 1,2-Dichloropropane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

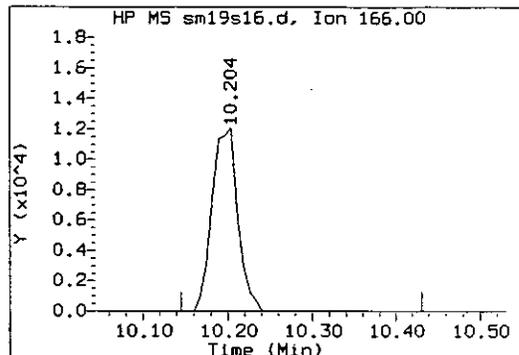
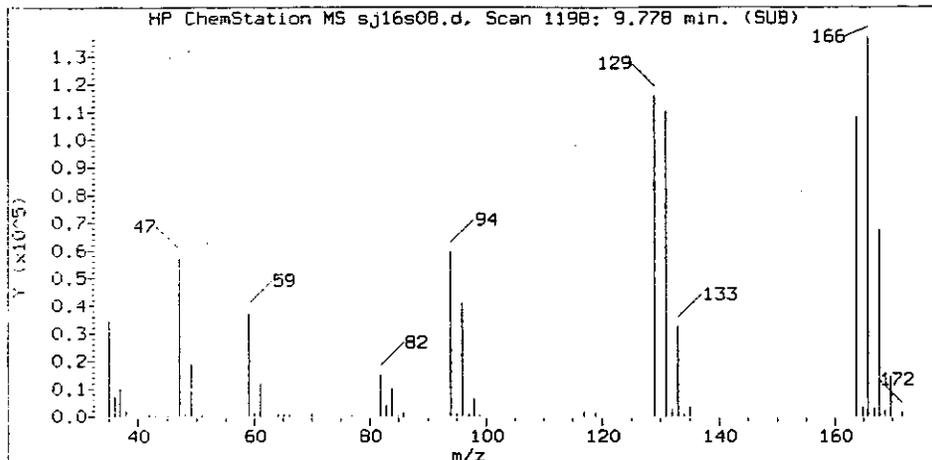
Sample Name: BREWA

Lab Sample ID: 5621919

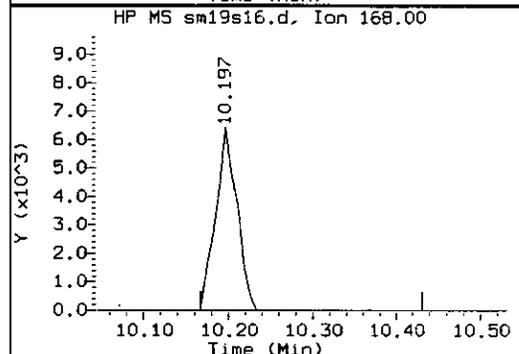
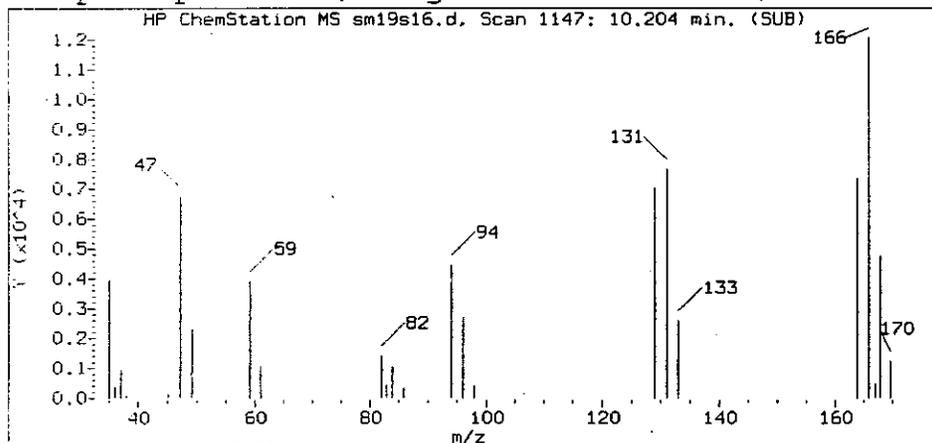
Compound Number : 44
 Compound Name : 1,2-Dichloropropane
 Scan Number : 915
 Retention Time (minutes) : 8.503
 Quant Ion : 63.0
 Area (flag) : 18066
 Concentration (ug/L) : 0.2028

44189 8899

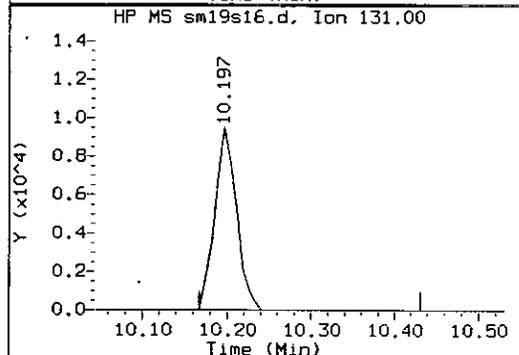
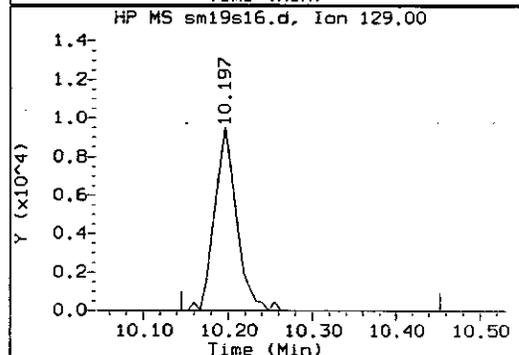
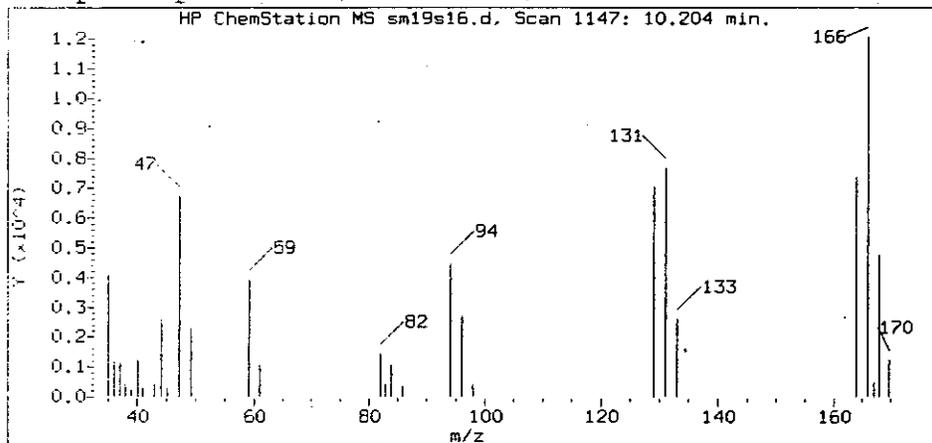
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

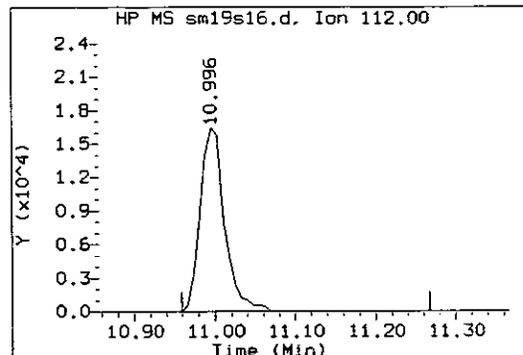
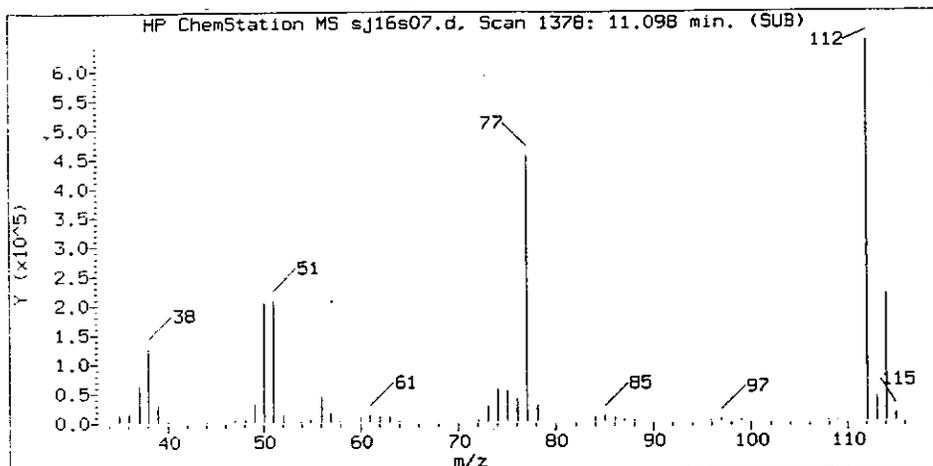
Sample Name: BREWA

Lab Sample ID: 5621919

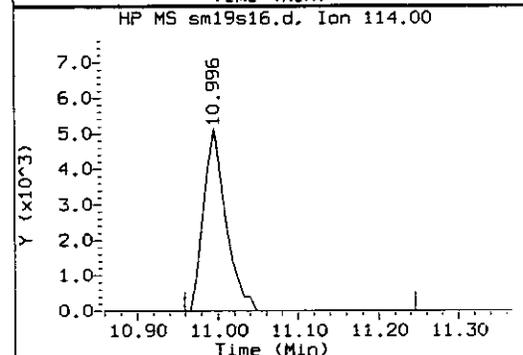
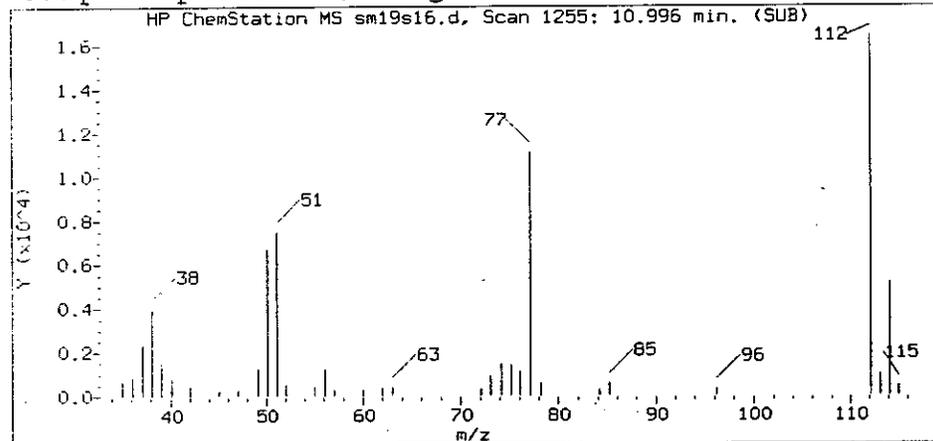
Compound Number : 58
 Compound Name : Tetrachloroethene
 Scan Number : 1147
 Retention Time (minutes) : 10.204
 Quant Ion : 166.0
 Area (flag) : 25380
 Concentration (ug/L) : 0.3884

NOTES: 8188

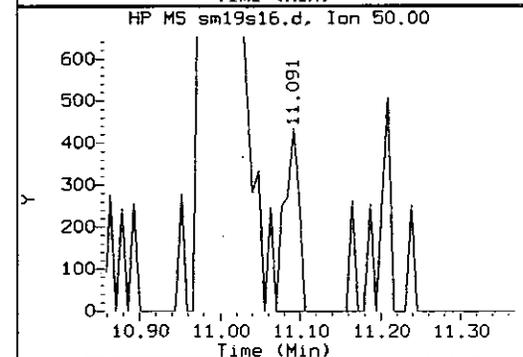
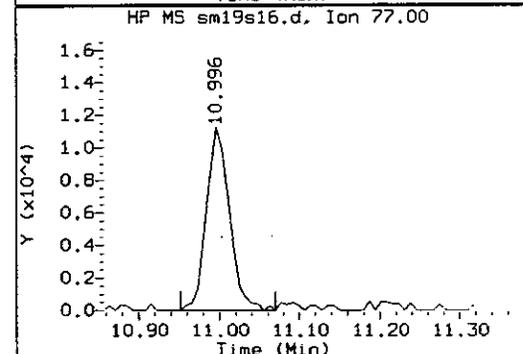
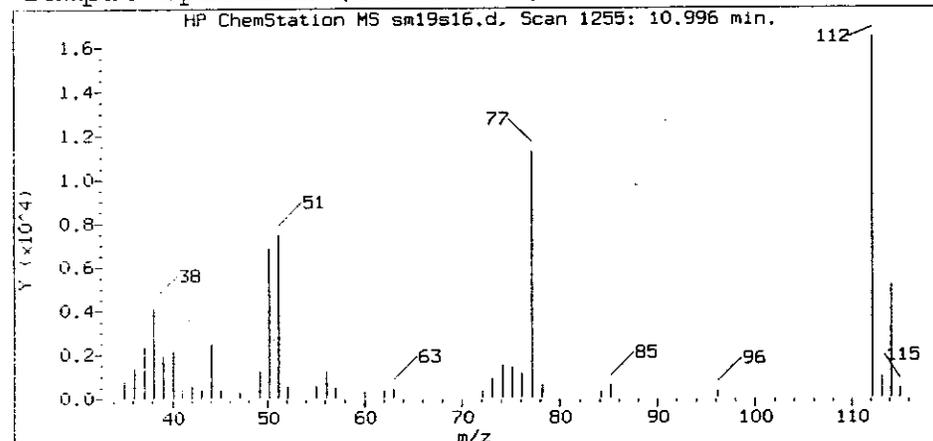
Reference Standard Spectrum for Chlorobenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

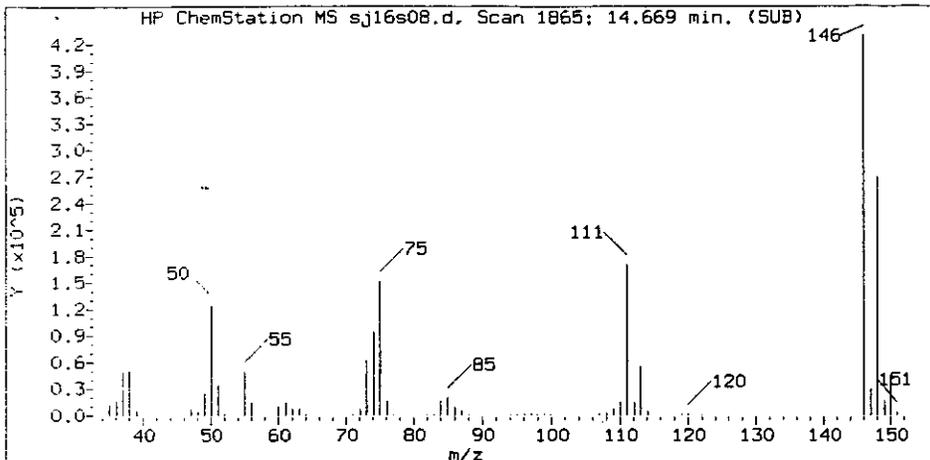
Sample Name: BREWA

Lab Sample ID: 5621919

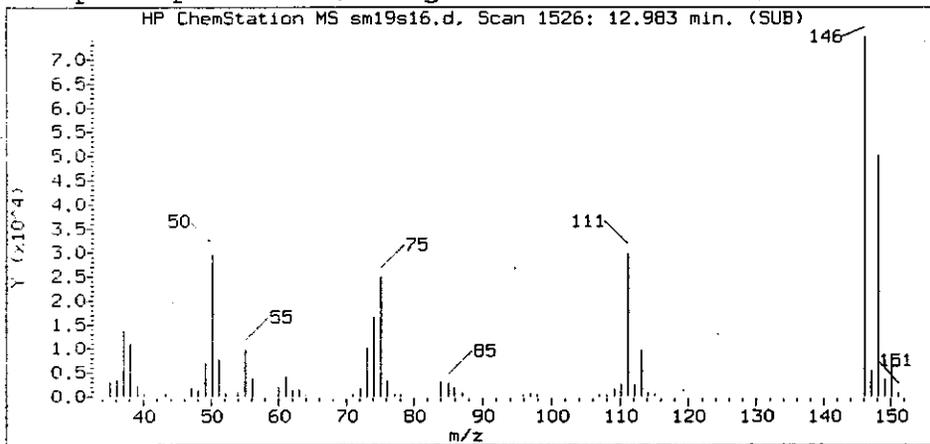
Compound Number : 64
 Compound Name : Chlorobenzene
 Scan Number : 1255
 Retention Time (minutes): 10.996
 Quant Ion : 112.0
 Area (flag) : 33699
 Concentration (ug/L) : 0.2490

WATER SIDE

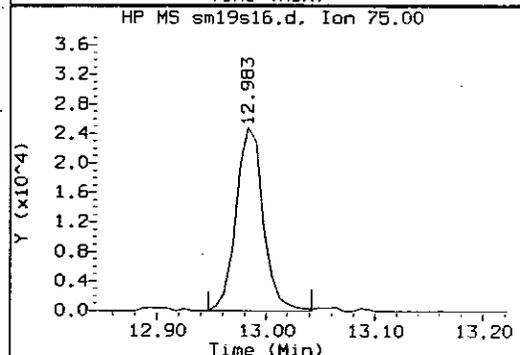
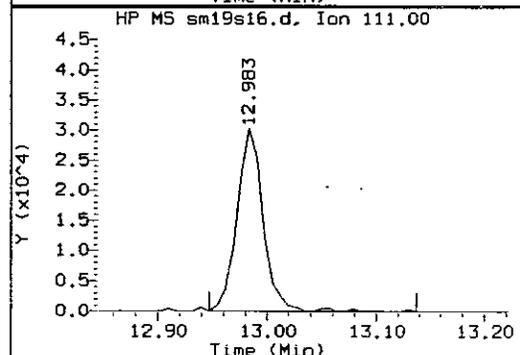
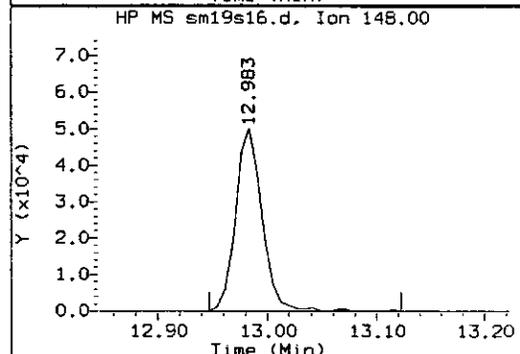
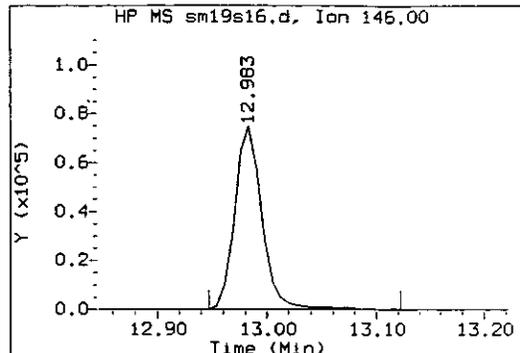
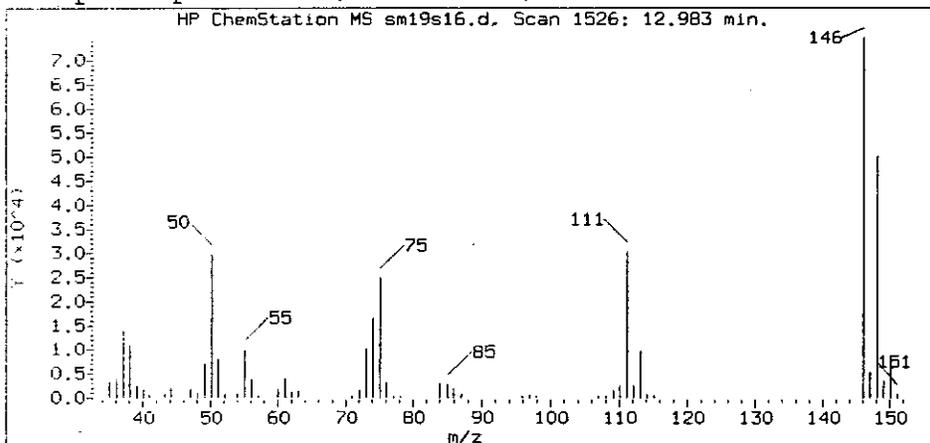
Reference Standard Spectrum for 1,4-Dichlorobenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s16.d
 Injection date and time: 20-MAR-2009 00:51

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:43 rvn00349

Sample Name: BREWA

Lab Sample ID: 5621919

Compound Number : 88
 Compound Name : 1,4-Dichlorobenzene
 Scan Number : 1526
 Retention Time (minutes) : 12.983
 Quant Ion : 146.0
 Area (flag) : 130438
 Concentration (ug/L) : 1.4080

WAT89 8182

BREWADL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621919

File: /chem/SH08359.i/09mar20a.b/sm20s04.d
Sample: BREWADL;5621919;1;0;;;
Injected At:20-MAR-2009 08:54
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm20b01.d
Sublist: REV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090791AA Matrix: WATER
Analyst:amd00492 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:5.00
Units: ug/L Bottle Code:39B

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.769(0.007) | 815 | 96 | 1143812(-11) | 5.00 | |

= RETENTION TIME OUT OF RANGE

* = INTERNAL STANDARD OUT OF RANGE

NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.986(-0.001) | 174 | 215949 | 4.652 | 93% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(-0.002) | 152 | 178763 | 4.346 | 87% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard

= RRT out of range

* = % Rec. out of range

NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 1.00 | 2.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 1.00 | 2.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 5) Chloroethane | (1) | 2.871(-0.001) | 64 | 189973 | 1.889 | 9.45 | | | 1.00 | 2.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 1.00 | 2.50 |
| 10) 1,1-Dichloroethene | (1) | 3.787(0.000) | 96 | 17516 | 0.243 | 1.21 | | J | 0.50 | 2.50 |
| 17) Methylene Chloride | (1) | 4.352(-0.001) | 84 | 33019 | 0.545 | 2.73 | | | 1.50 | 2.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 22) 1,1-Dichloroethane | (1) | 5.291(0.000) | 63 | 1276344 | 6.652 | 33.26 | | | 0.50 | 2.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.119(0.000) | 96 | 82914 | 1.165 | 5.83 | | | 0.50 | 2.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 1.00 | 2.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 39) Benzene | (1) | 7.425(-0.003) | 78 | 27131 | 0.105 | 0.53 | | J | 0.50 | 2.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 43) Trichloroethene | (1) | 8.239(-0.001) | 95 | 13167 | 0.183 | 0.92 | | J | 0.50 | 2.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.50 | 2.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.50 | 2.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

BREWADL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621919

File: /chem/SH08359.i/09mar20a.b/sm20s04.d
Sample: BREWADL;5621919;1;0;;;;
Injected At: 20-MAR-2009 08:54
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm20b01.d
Sublist: REV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA Matrix: WATER
Analyst: amd00492 Level: Low
Instrument ID: SH08359.1 Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 5.00
Units: ug/L Bottle Code: 39B

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|-------------------------------|--------------|-------------|------|------|-------------|-------------|-------|-----------|-------|
| | | | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 53) Toluene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 58) Tetrachloroethene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 64) Chlorobenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 66) Ethylbenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 67) m+p-Xylene | (1) | | | | ND | ND | | 1.00 | 2.50 |
| 68) o-Xylene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 69) Styrene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 71) Bromoform | (1) | | | | ND | ND | | 1.00 | 2.50 |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 75) Bromobenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | 1.00 | 2.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

BREWADL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621919

File: /chem/SH08359.i/09mar20a.b/sm20s04.d
Sample: BREWADL;5621919;1;0;::;
Injected At: 20-MAR-2009 08:54
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm20b01.d
Sublist: REV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA Matrix: WATER
Analyst: amd00492 Level: Low
Instrument ID: SH08359.1 Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 5.00
Units: ug/L Bottle Code: 39B

| Target Compounds | I.S. Ref. | RT (+/-RRT) | Qion | Area | Conc. | Conc. | Blank | Reporting | |
|---------------------------------|-----------|----------------|------|-------|-------------|-------------|-------|-----------|-------|
| | | | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 88) 1,4-Dichlorobenzene | (1) | 12.976(-0.001) | 146 | 24585 | 0.263 | 1.32 | J | 0.50 | 2.50 |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | 1.00 | 2.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | 0.50 | 2.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | 2.00 | 5.00 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | 1.00 | 2.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | 1.00 | 2.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | 1.00 | 2.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | 1.00 | 2.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: Reporting 1, DCA only from DL

Analyst: U. J. J. J. Date: 3/20/09

Auditor: AMM Date: 3/21/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 08:54 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

Sample Name: BREWADL

Lab Sample ID: 5621919

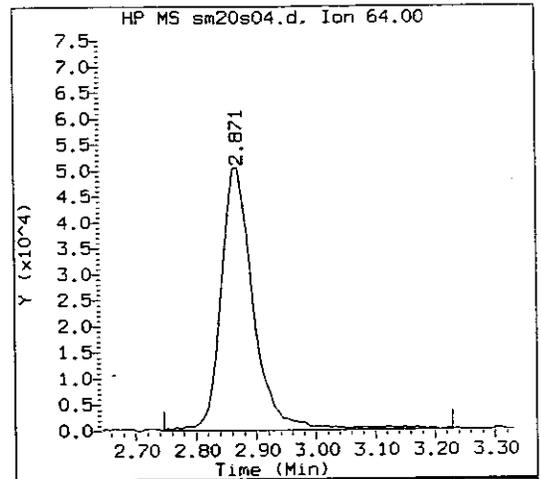
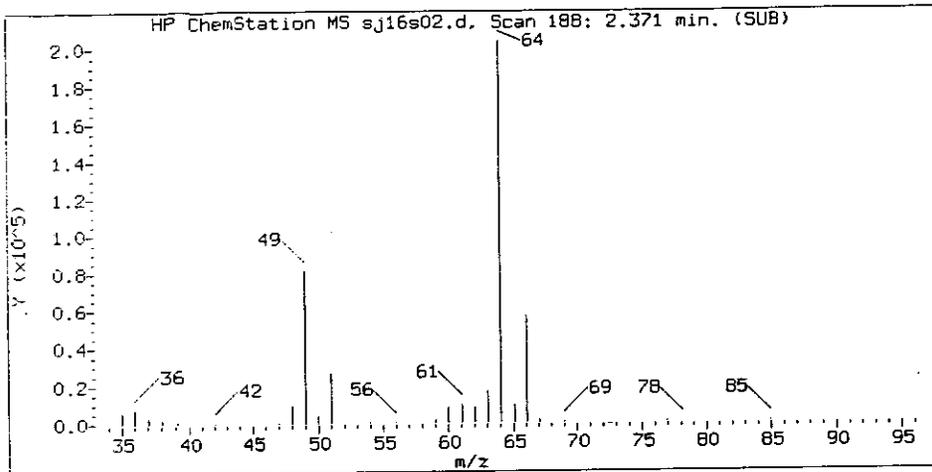
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 5) Chloroethane | (1) | 2.871 | 64 | 189973 | 1.889 |
| 10) 1,1-Dichloroethene | (1) | 3.787 | 96 | 17516 | 0.243 |
| 17) Methylene Chloride | (1) | 4.352 | 84 | 33019 | 0.545 |
| 22) 1,1-Dichloroethane | (1) | 5.291 | 63 | 1276344 | 6.652 |
| 26) cis-1,2-Dichloroethene | (1) | 6.119 | 96 | 82914 | 1.165 |
| 39) Benzene | (1) | 7.425 | 78 | 27131 | 0.105 |
| 42)*Fluorobenzene | (1) | 7.769 | 96 | 1143812 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 13167 | 0.183 |
| 88) 1,4-Dichlorobenzene | (1) | 12.976 | 146 | 24585 | 0.263 |
| 73)\$4-Bromofluorobenzene | (1) | 11.986 | 174 | 215949 | 4.652 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 178763 | 4.346 |

M = Compound was manually integrated.

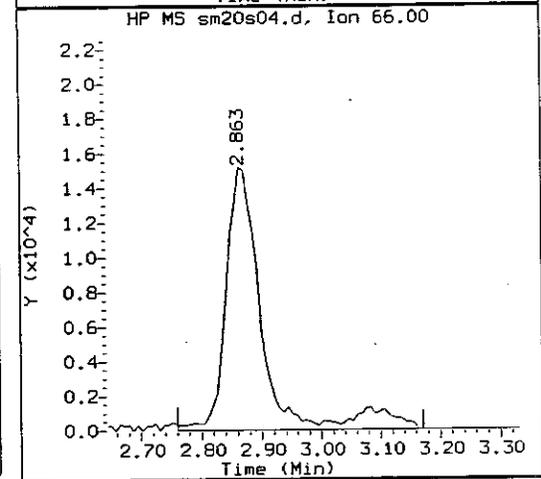
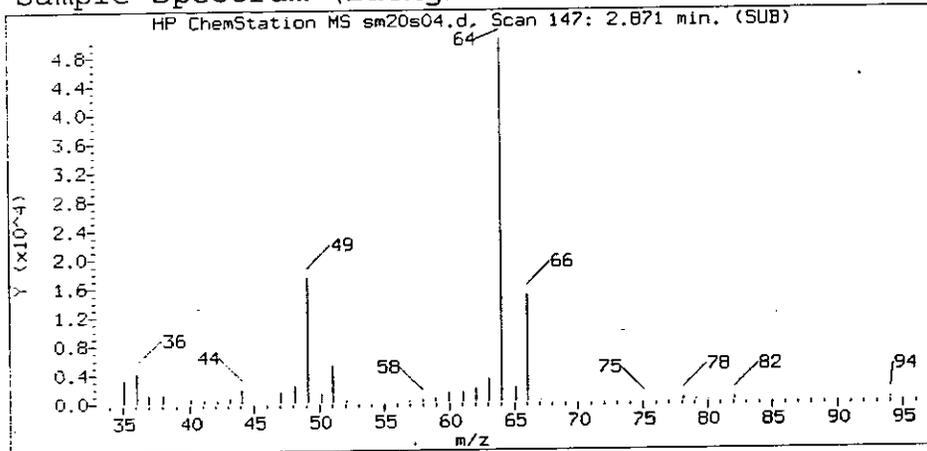
* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

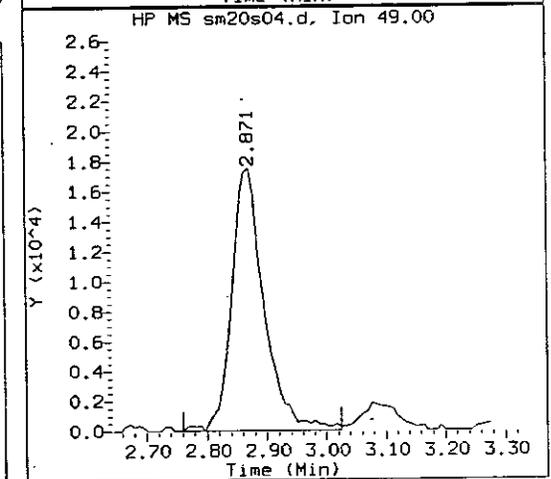
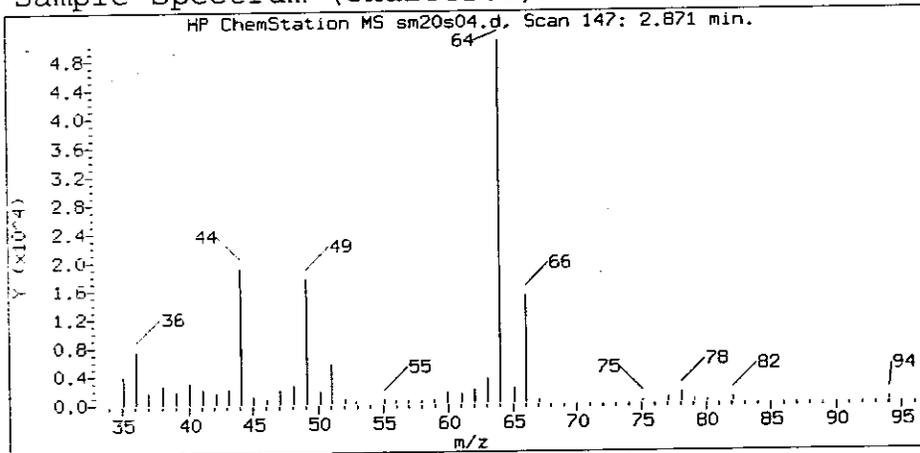
Reference Standard Spectrum for Chloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

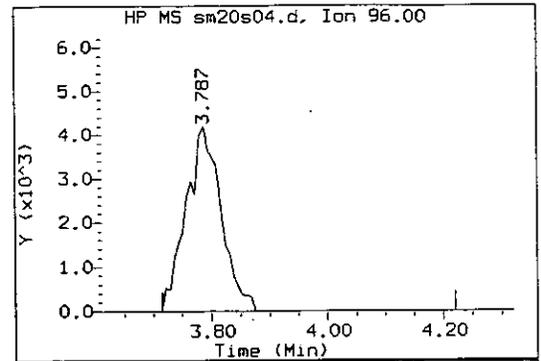
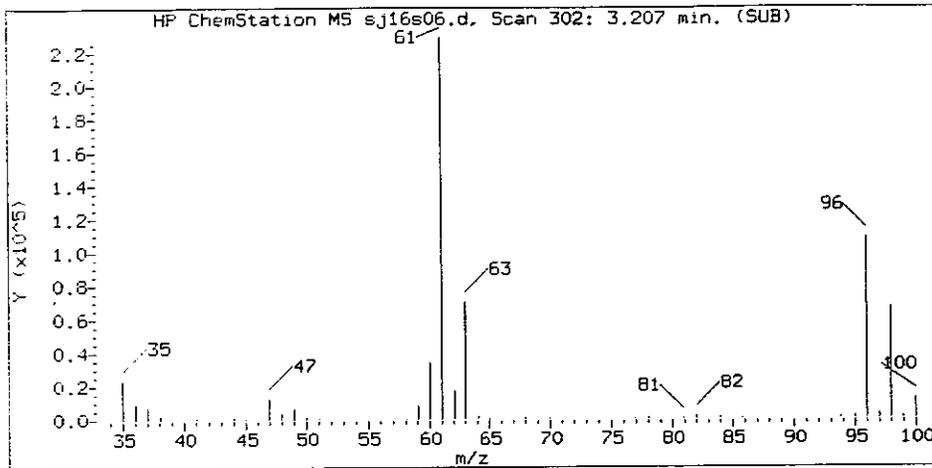
Sample Name: BREWADL

Lab Sample ID: 5621919

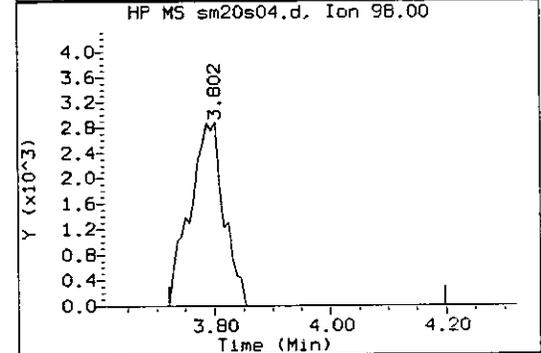
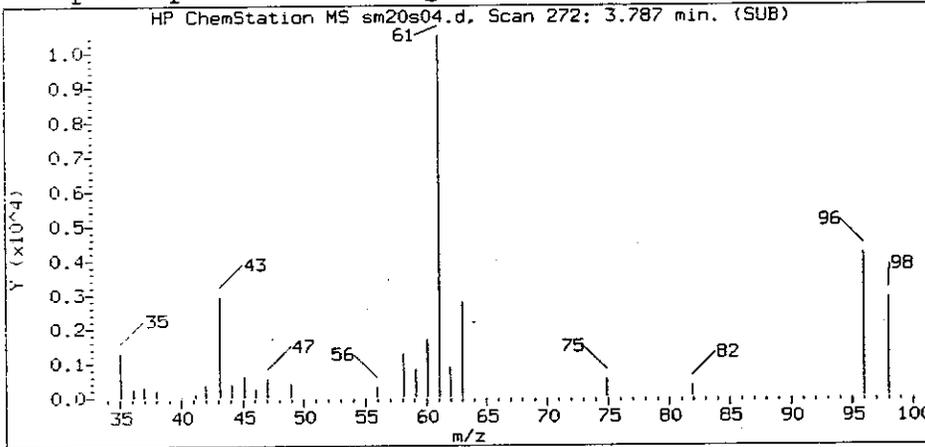
Compound Number : 5
 Compound Name : Chloroethane
 Scan Number : 147
 Retention Time (minutes) : 2.871
 Quant Ion : 64.0
 Area (flag) : 189973
 Concentration (ug/L) : 1.8891

DATE: 03/20/09

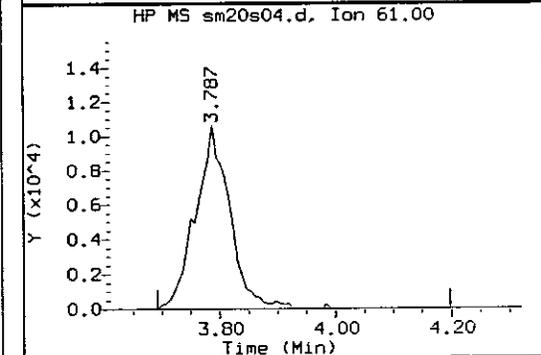
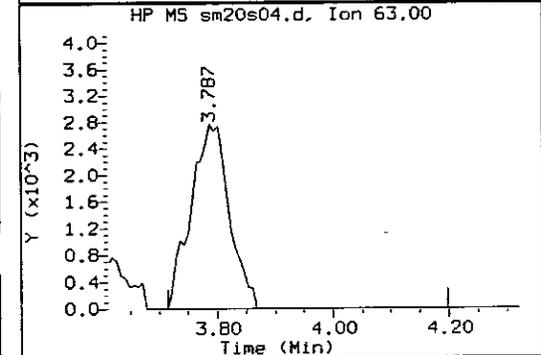
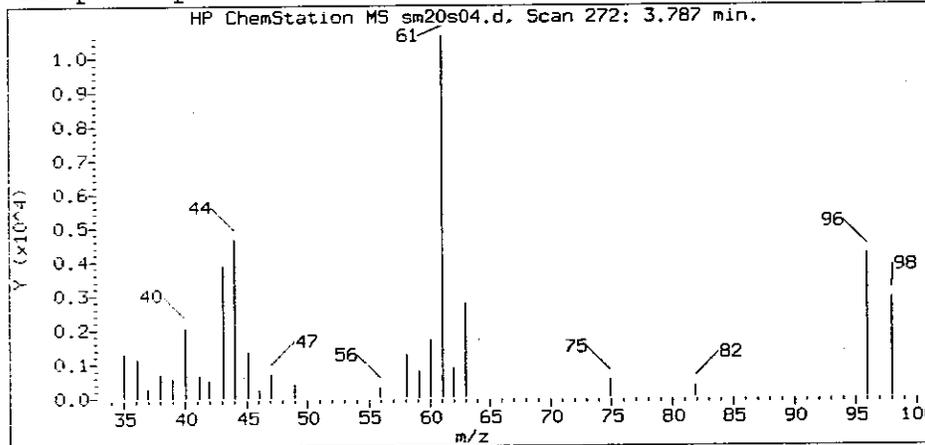
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

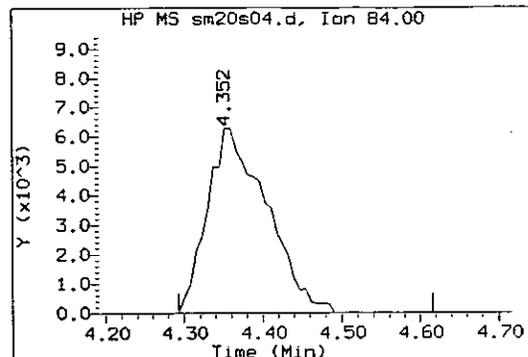
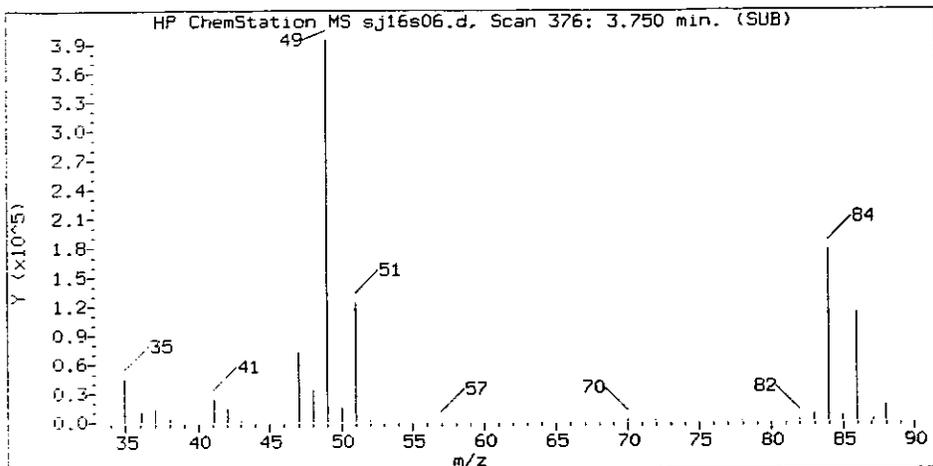
Sample Name: BREWADL

Lab Sample ID: 5621919

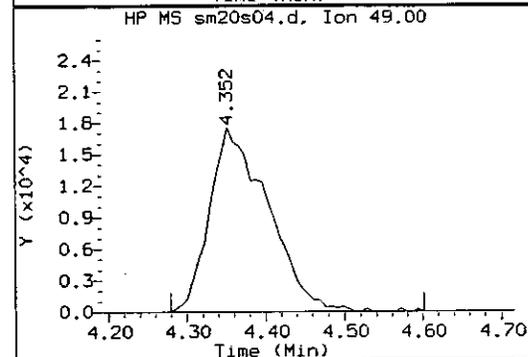
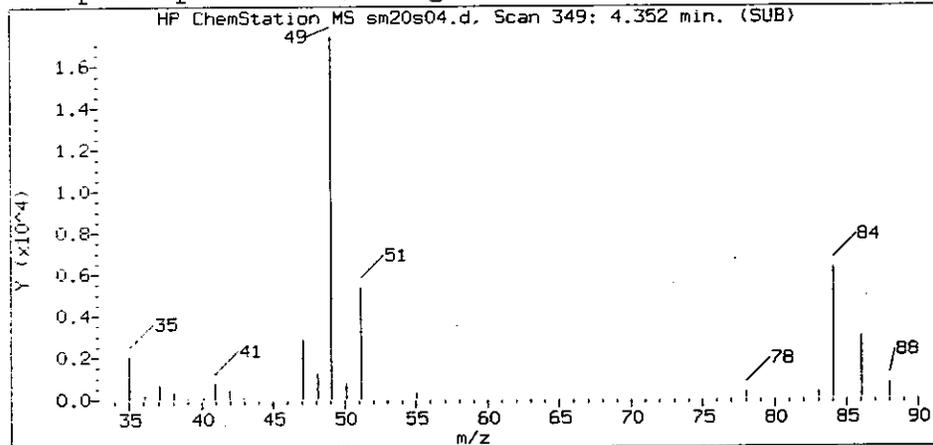
Compound Number : 10
 Compound Name : 1,1-Dichloroethene
 Scan Number : 272
 Retention Time (minutes) : 3.787
 Quant Ion : 96.0
 Area (flag) : 17516
 Concentration (ug/L) : 0.2425

44789 8189

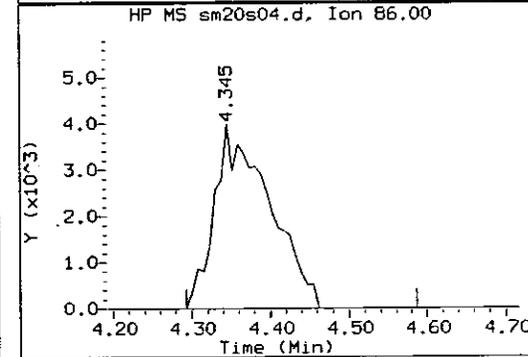
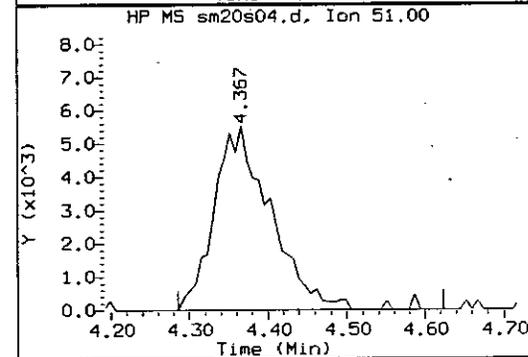
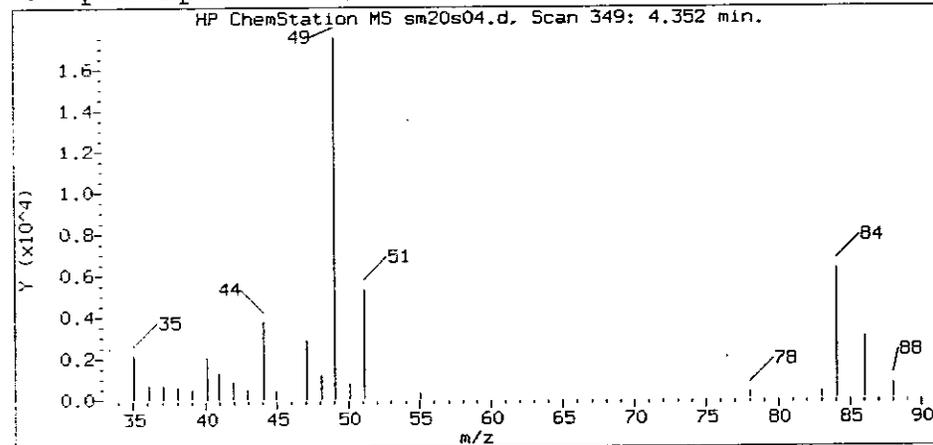
Reference Standard Spectrum for Methylene Chloride



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

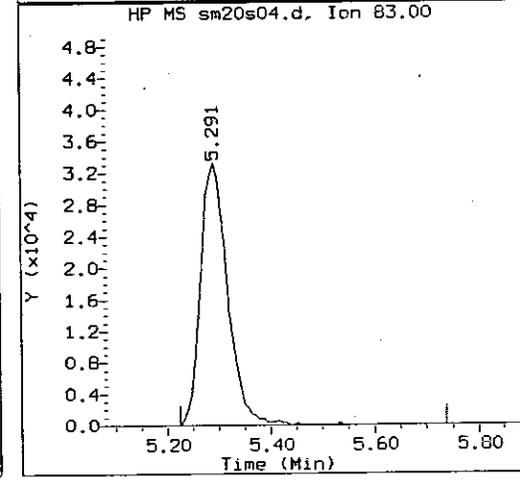
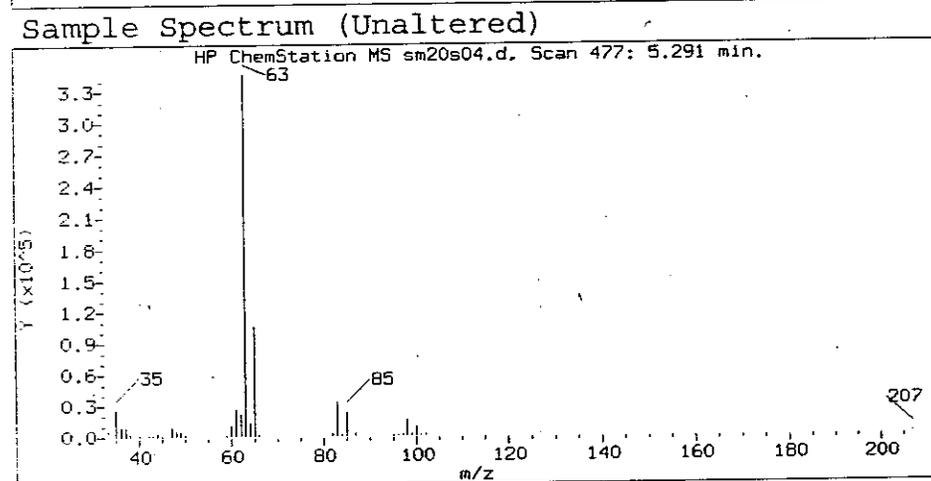
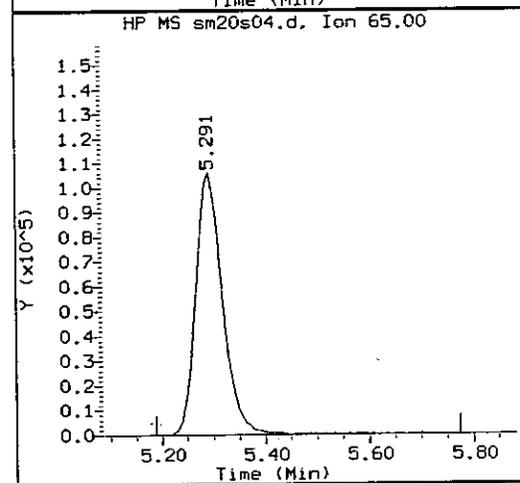
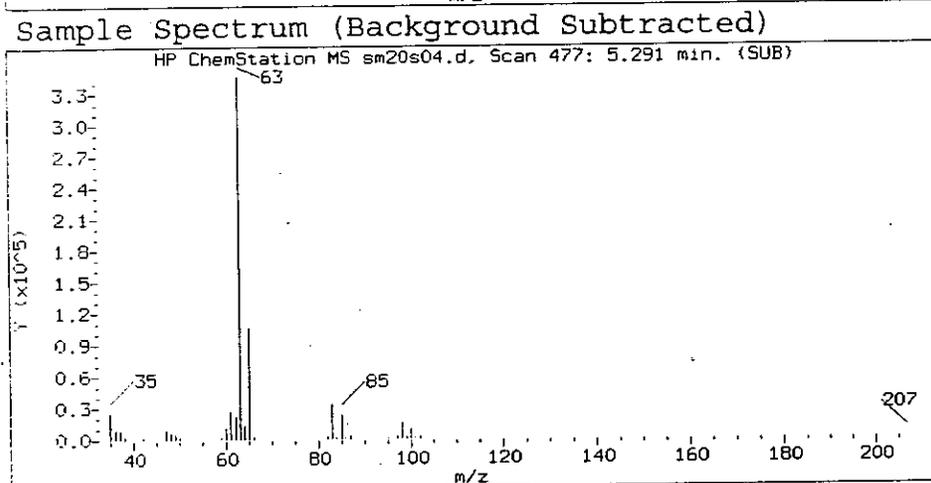
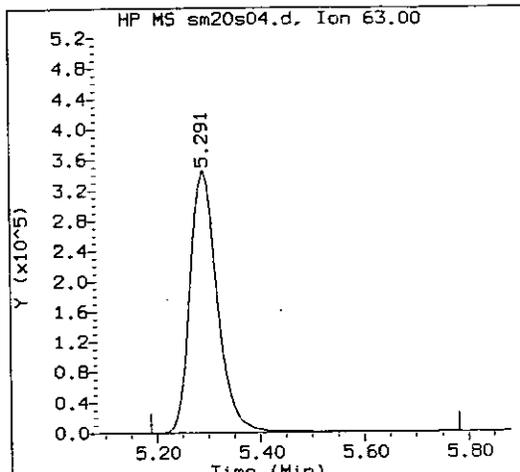
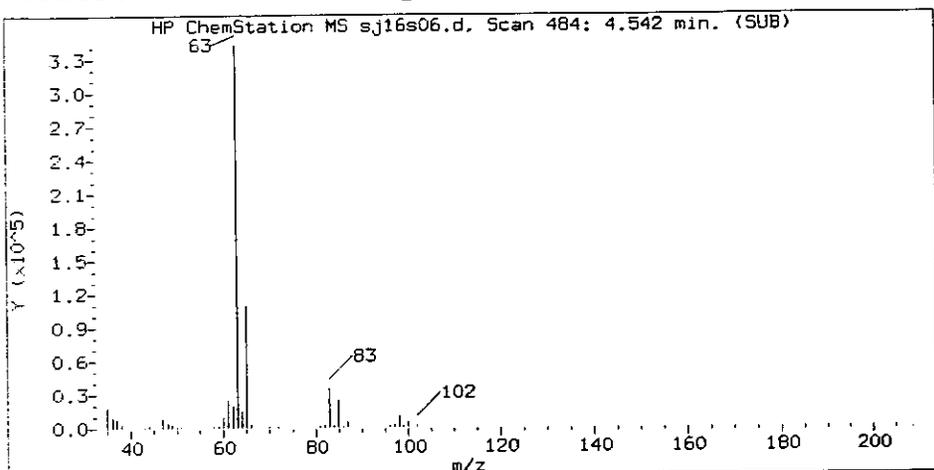
Sample Name: BREWADL

Lab Sample ID: 5621919

Compound Number : 17
 Compound Name : Methylene Chloride
 Scan Number : 349
 Retention Time (minutes) : 4.352
 Quant Ion : 84.0
 Area (flag) : 33019
 Concentration (ug/L) : 0.5452

03/20/09 8:11:10

Reference Standard Spectrum for 1,1-Dichloroethane



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

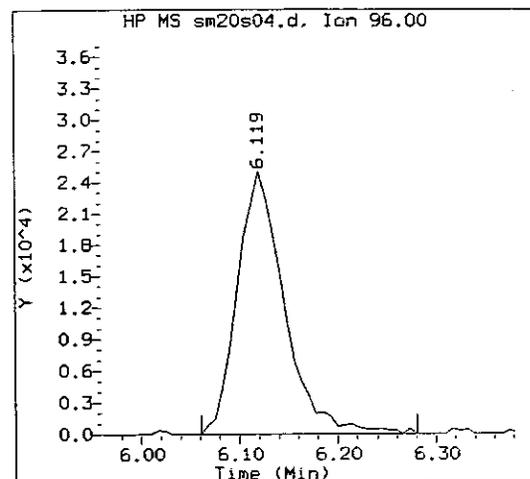
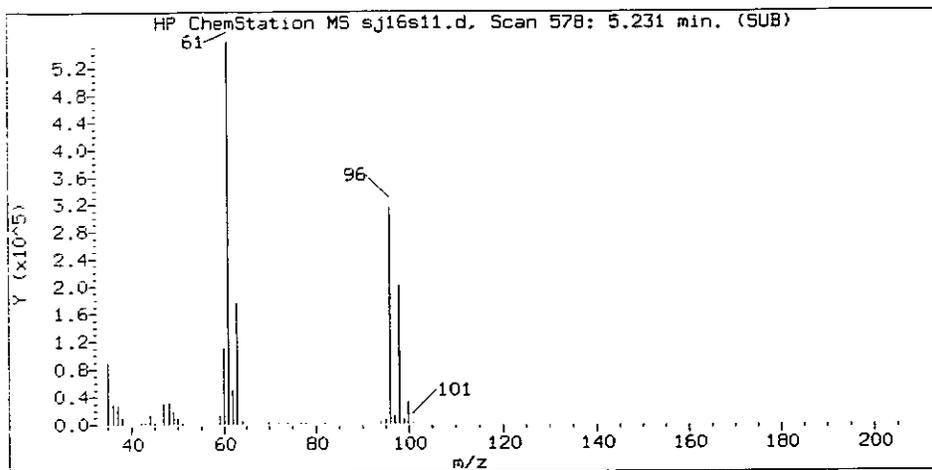
Sample Name: BREWADL

Lab Sample ID: 5621919

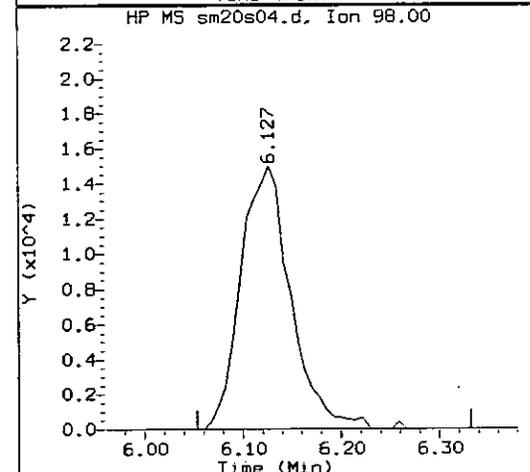
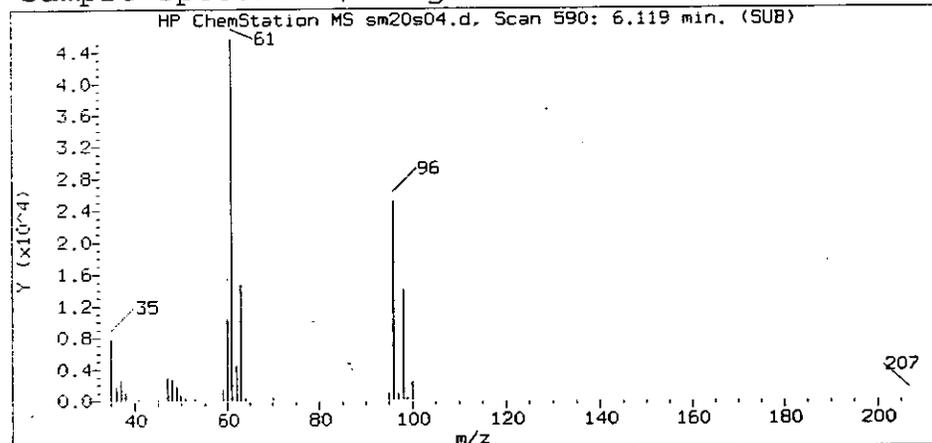
Compound Number : 22
 Compound Name : 1,1-Dichloroethane
 Scan Number : 477
 Retention Time (minutes) : 5.291
 Quant Ion : 63.0
 Area (flag) : 1276344
 Concentration (ug/L) : 6.6520

WATER 8:11:11

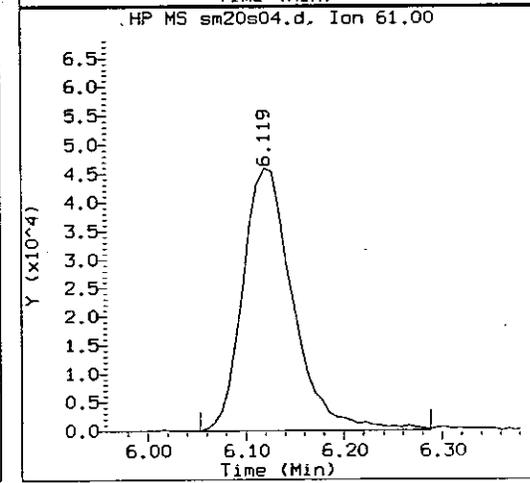
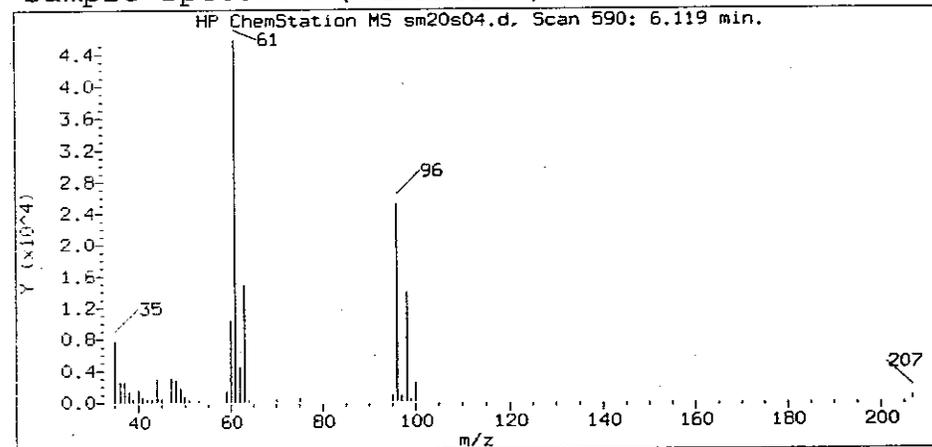
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

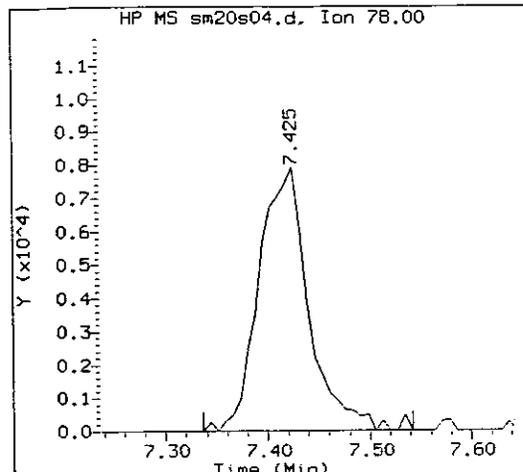
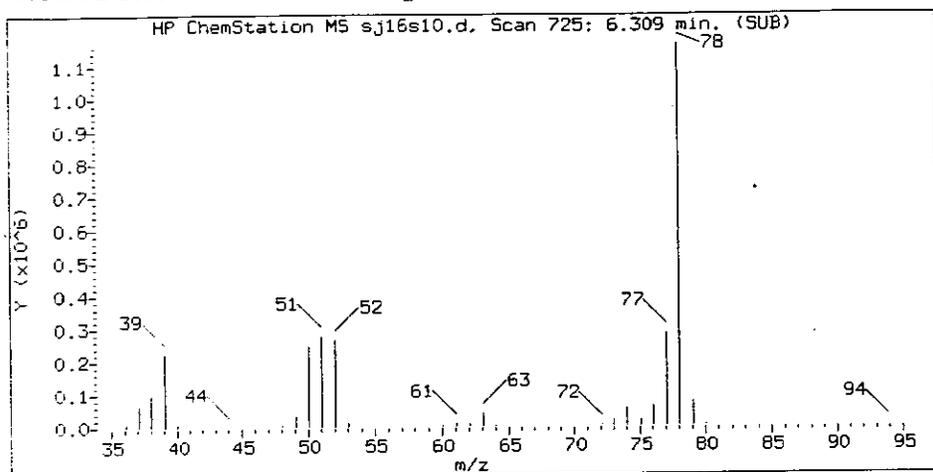
Sample Name: BREWADL

Lab Sample ID: 5621919

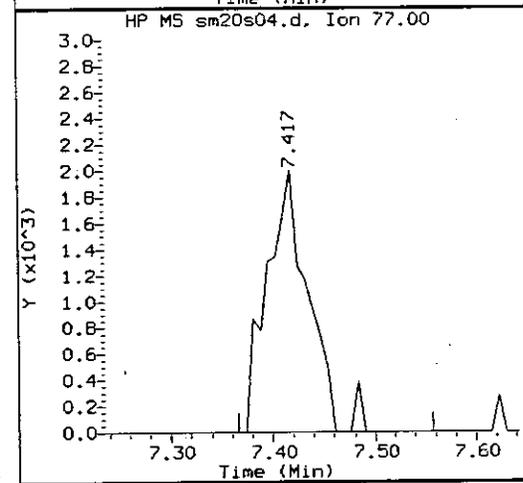
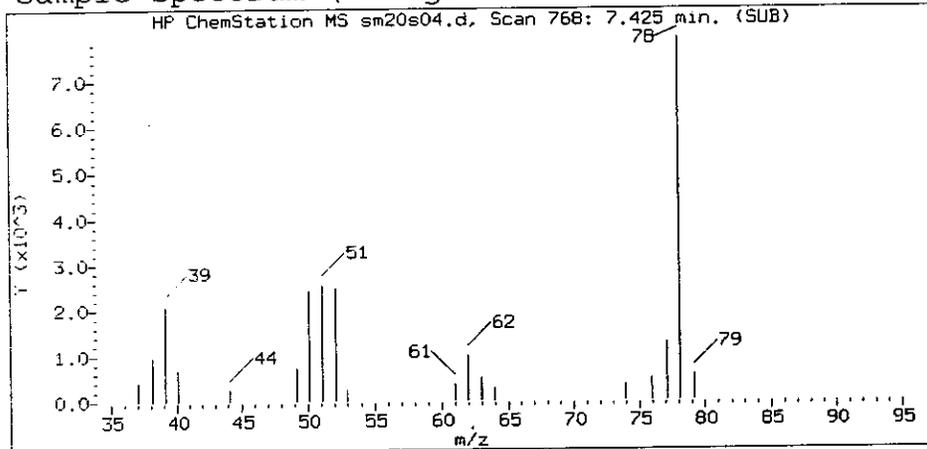
Compound Number : 26
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 590
 Retention Time (minutes) : 6.119
 Quant Ion : 96.0
 Area (flag) : 82914
 Concentration (ug/L) : 1.1650

WATER 6:12

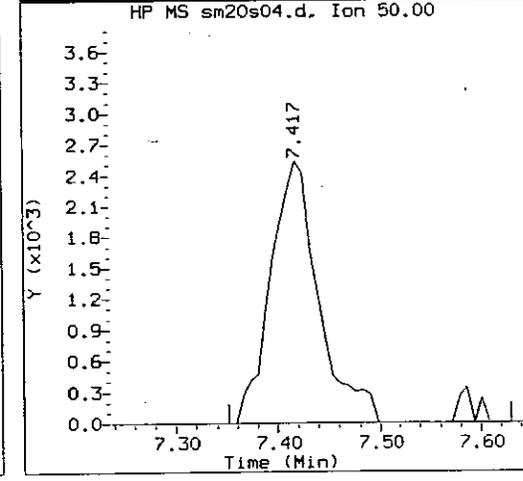
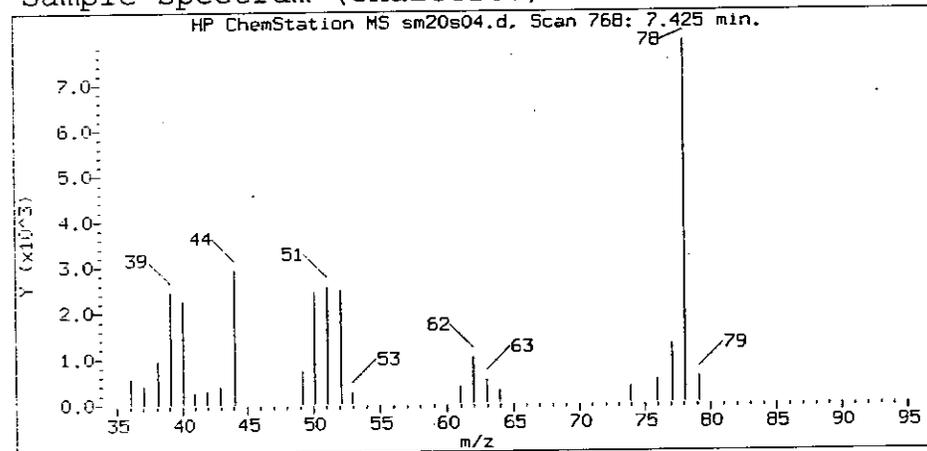
Reference Standard Spectrum for Benzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

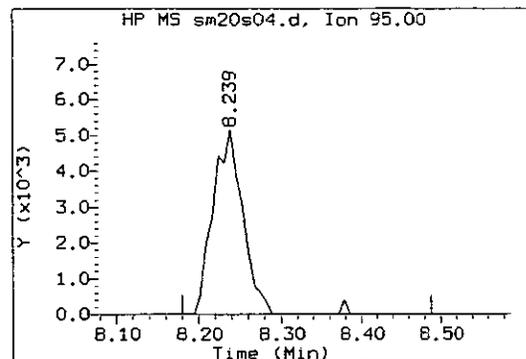
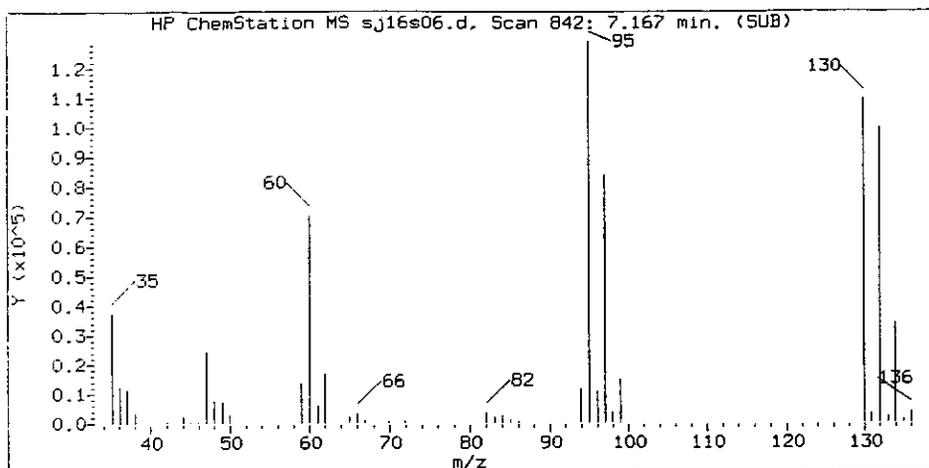
Sample Name: BREWADL

Lab Sample ID: 5621919

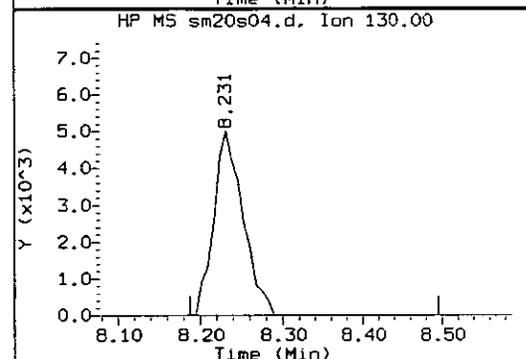
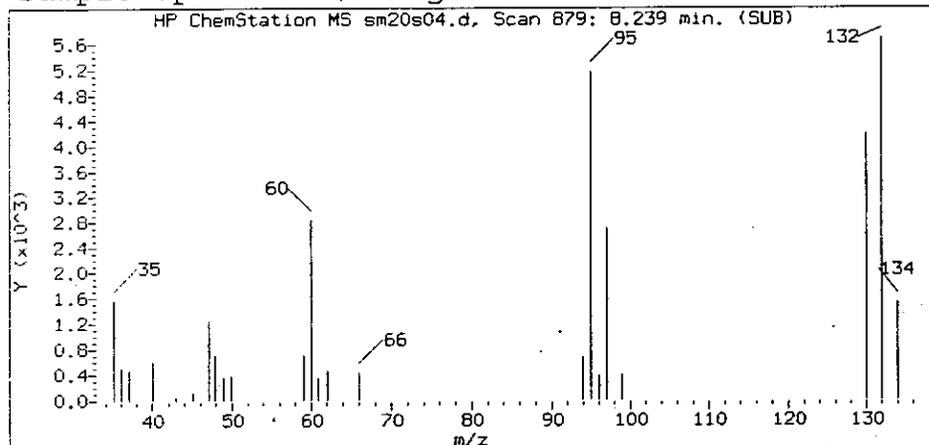
Compound Number : 39
 Compound Name : Benzene
 Scan Number : 768
 Retention Time (minutes) : 7.425
 Quant Ion : 78.0
 Area (flag) : 27131
 Concentration (ug/L) : 0.1052

WATER 0.13

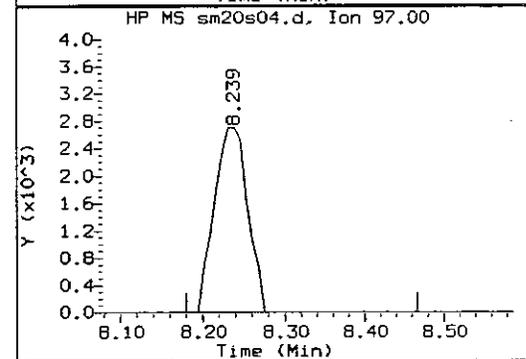
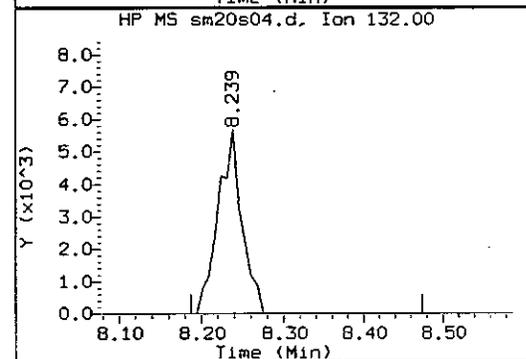
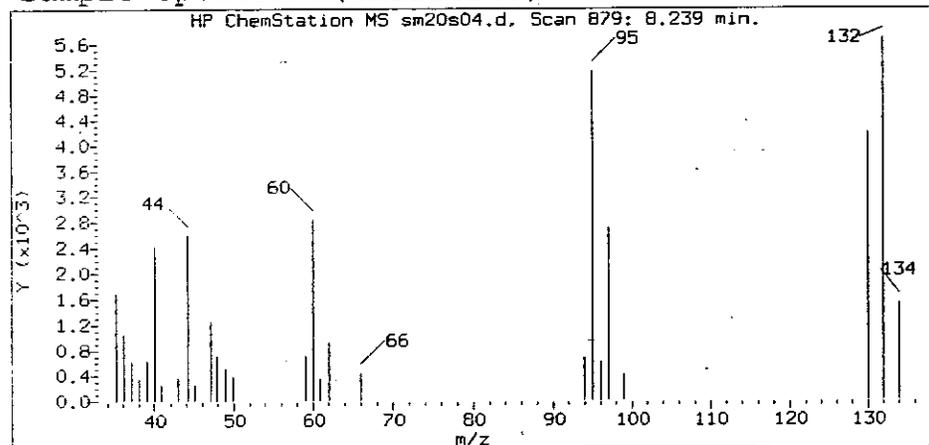
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

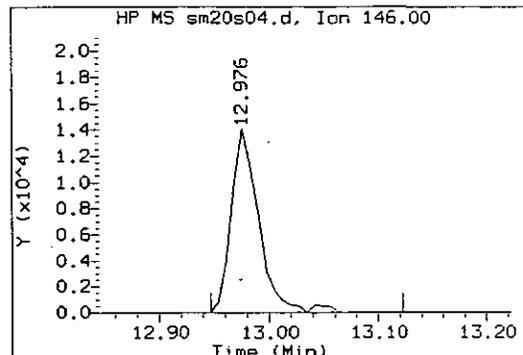
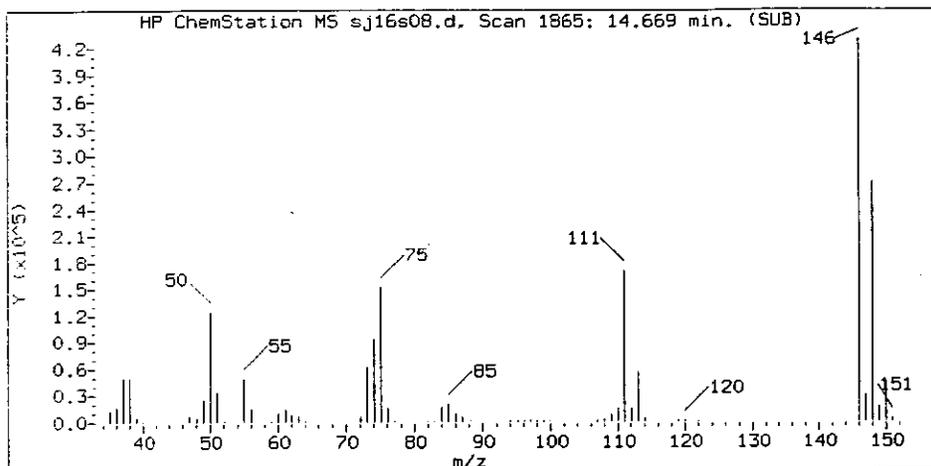
Sample Name: BREWADL

Lab Sample ID: 5621919

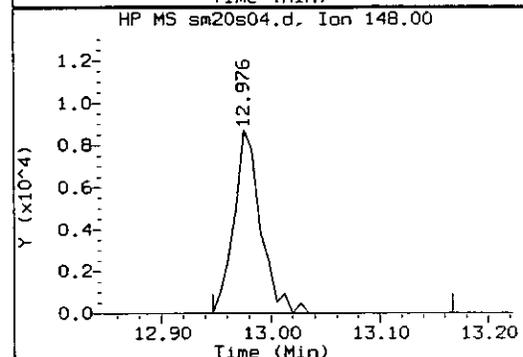
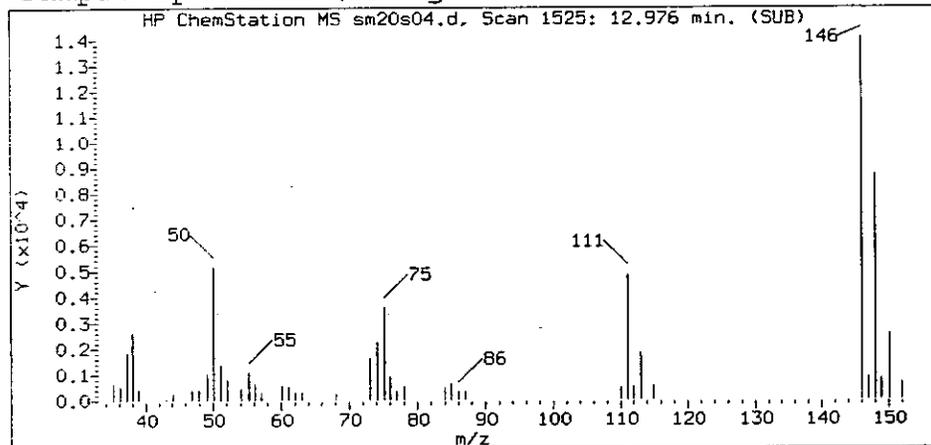
Compound Number : 43
 Compound Name : Trichloroethene
 Scan Number : 879
 Retention Time (minutes) : 8.239
 Quant Ion : 95.0
 Area (flag) : 13167
 Concentration (ug/L) : 0.1833

WAT89 8114

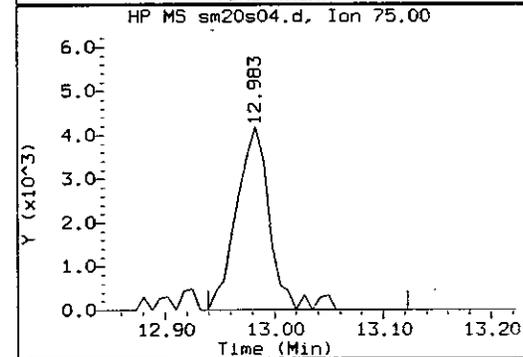
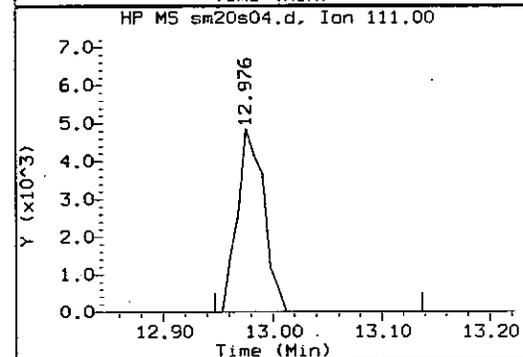
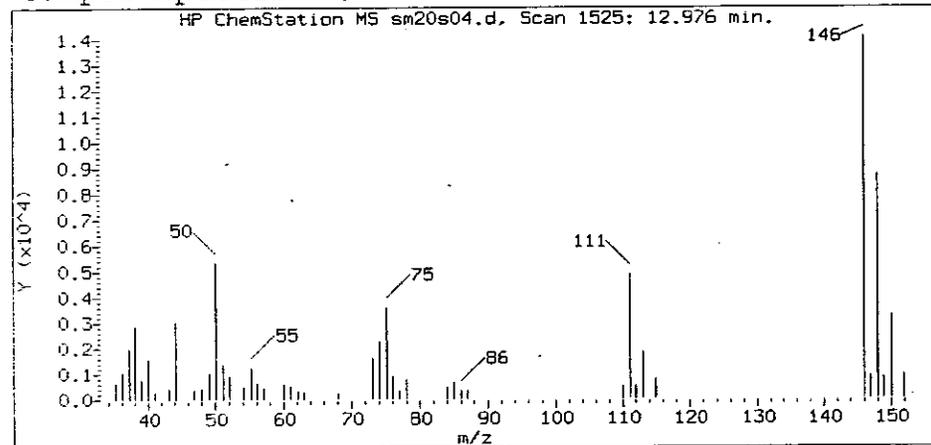
Reference Standard Spectrum for 1,4-Dichlorobenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar20a.b/sm20s04.d
 Injection date and time: 20-MAR-2009 08:54

Instrument ID: SH08359.i
 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 10:29 amd00492

Sample Name: BREWADL

Lab Sample ID: 5621919

Compound Number : 88
 Compound Name : 1,4-Dichlorobenzene
 Scan Number : 1525
 Retention Time (minutes) : 12.976
 Quant Ion : 146.0
 Area (flag) : 24585
 Concentration (ug/L) : 0.2634

WAT09 0115

RES02

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5621920

File: /chem/SH08359.i/09mar19a.b/sml9s17.d
Sample: RES02;5621920;1;0;;;DRAPER;
Injected At:20-MAR-2009 01:17
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:39A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.777(0.007) | 816 | 96 | 1085794(-22) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(-0.001) | 174 | 205202 | 4.657 | 93% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.277(-0.002) | 152 | 173993 | 4.456 | 89% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|--------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | 2.130(0.000) | 85 | 27234 | 0.305 | 0.31 | | J | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | 2.409(0.000) | 62 | 25879 | 0.142 | 0.14 | | J | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | 2.878(-0.002) | 64 | 47297 | 0.495 | 0.50 | | J | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | 5.298(0.000) | 63 | 764547 | 4.198 | 4.20 | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134(-0.001) | 96 | 9599 | 0.142 | 0.14 | | J | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

RES02

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621920

File: /chem/SH08359.i/09mar19a.b/sm19s17.d
Sample: RES02;5621920;1;0;;;DRAPER;
Injected At: 20-MAR-2009 01:17
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 39A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|-------------------------------|--------------|---------------|------|--------|-------------|-------------|-------|-----------|-------|
| | | | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 53) Toluene | (1) | 9.647(0.000) | 92 | 154936 | 1.044 | 1.04 | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 67) m+p-Xylene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 69) Styrene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 71) Bromoform | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

RES02

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621920

File: /chem/SH08359.i/09mar19a.b/sml9s17.d
Sample: RES02;5621920;1;0;;;DRAPER;
Injected At: 20-MAR-2009 01:17
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA
Analyst: LCM01518
Instrument ID: SH08359.i
Standard Reference: sm19c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code: 39A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 88) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | | 0.40 | 0.50 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

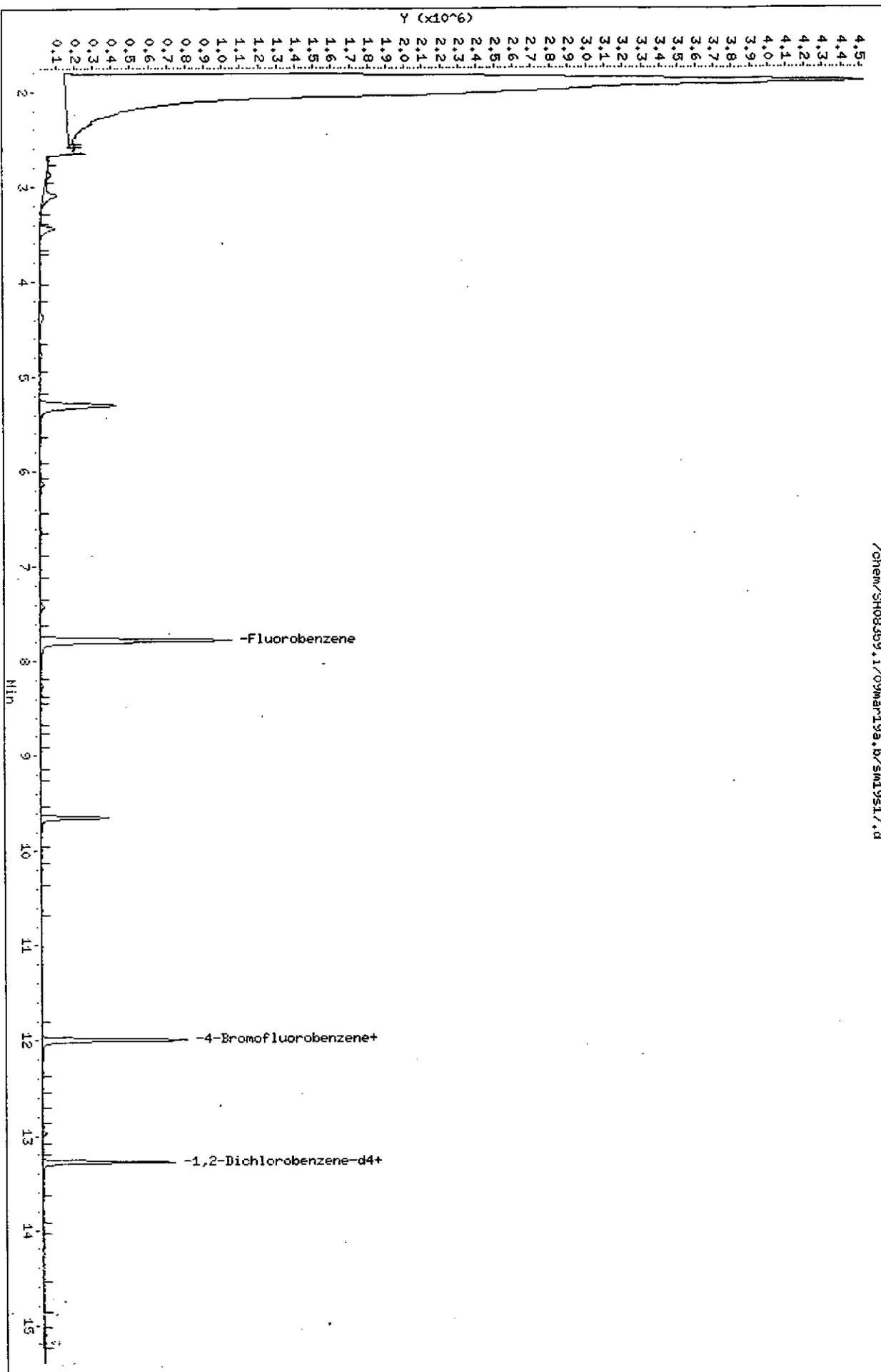
Analyst: MM Date: 3/24/09
Auditor: MM Date: 3/24/09

Data File: /chem/SH08359.1/09mar19a,b/sml19s17.d
Date: 20-MAR-2009 01:17
Client ID: RES02
Sample Info: RES02;5621920;110;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: LCH01518
Column diameter: 0.25

/chem/SH08359.1/09mar19a,b/sml19s17.d

Handwritten signature
3/23/09



6119 0919W

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sml19s17.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 01:17 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: RES02

Lab Sample ID: 5621920

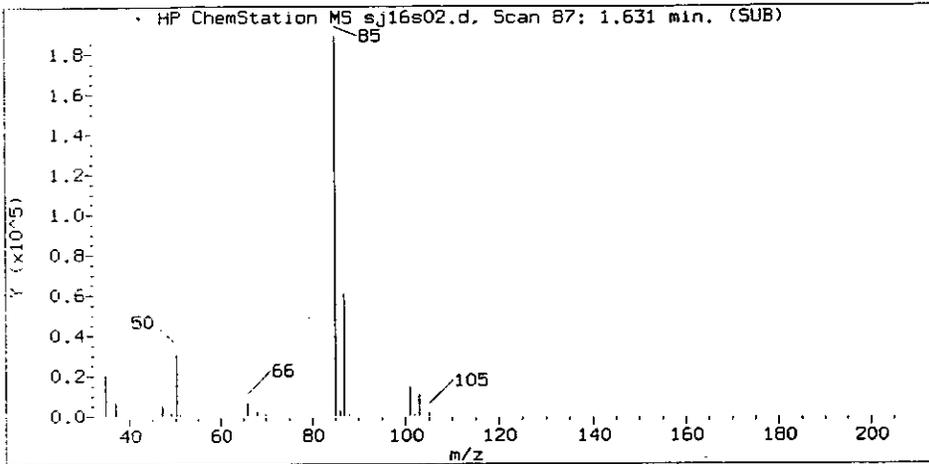
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.130 | 85 | 27234M | 0.305 |
| 3) Vinyl Chloride | (1) | 2.409 | 62 | 25879 | 0.142 |
| 5) Chloroethane | (1) | 2.878 | 64 | 47297M | 0.495 |
| 22) 1,1-Dichloroethane | (1) | 5.298 | 63 | 764547 | 4.198 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 9599 | 0.142 |
| 42)*Fluorobenzene | (1) | 7.777 | 96 | 1085794 | 5.000 |
| 53) Toluene | (1) | 9.647 | 92 | 154936 | 1.044 |
| 73)\$4-Bromofluorobenzene | (1) | 11.993 | 174 | 205202 | 4.657 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 173993 | 4.456 |

M = Compound was manually integrated.

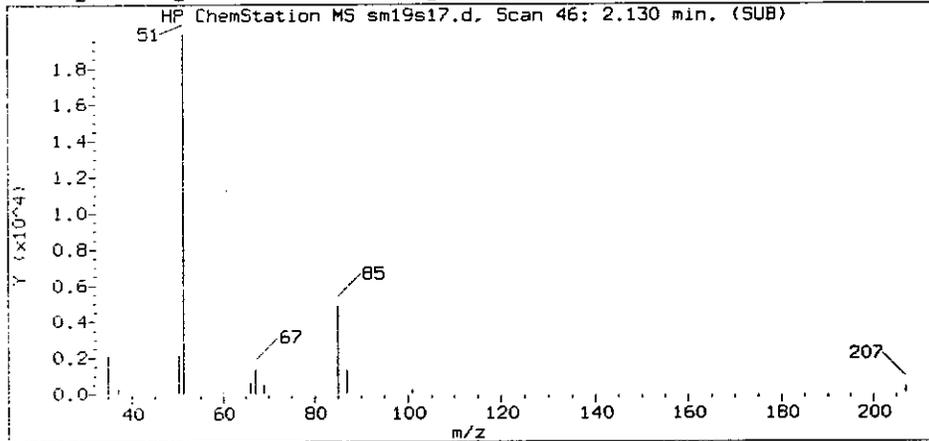
* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

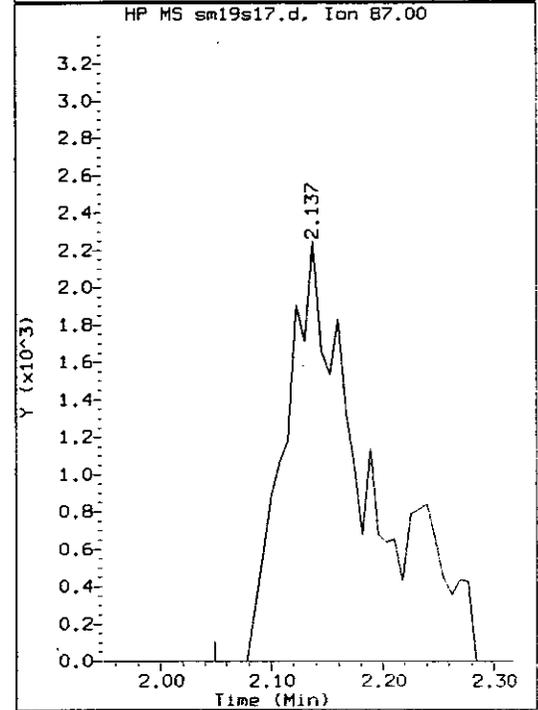
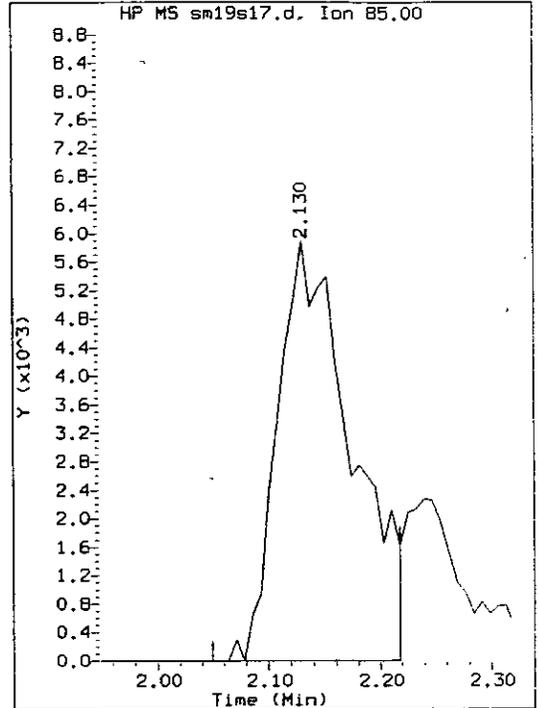
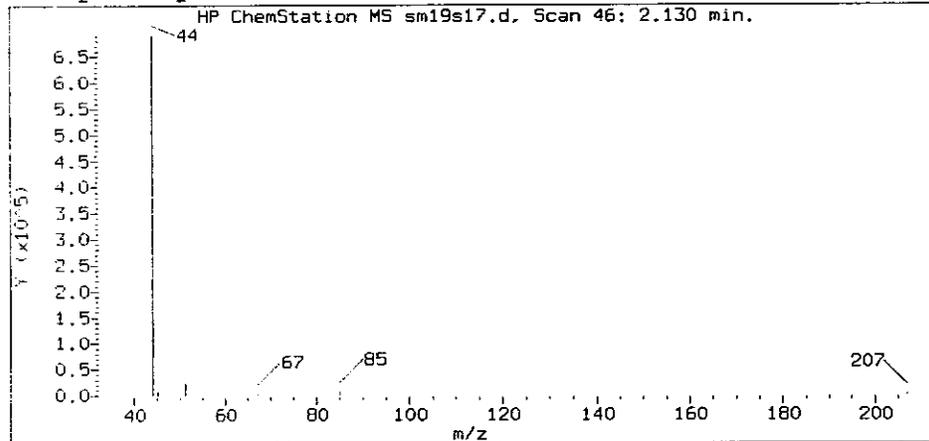
Reference Standard Spectrum for Dichlorodifluoromethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d
 Injection date and time: 20-MAR-2009 01:17

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

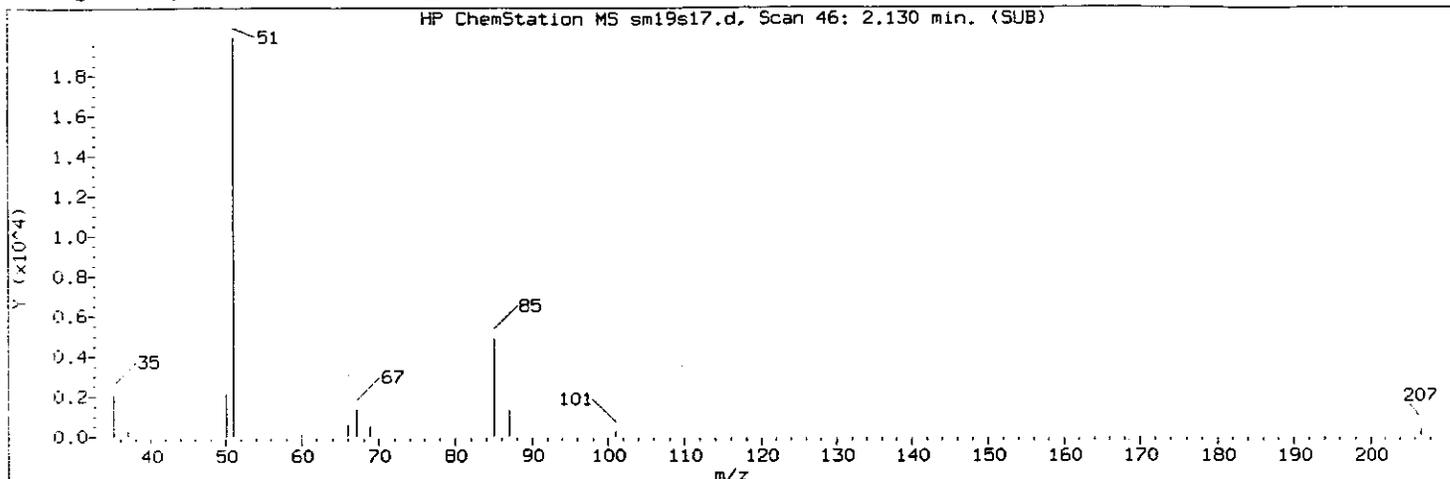
Sample Name: RES02

Lab Sample ID: 5621920

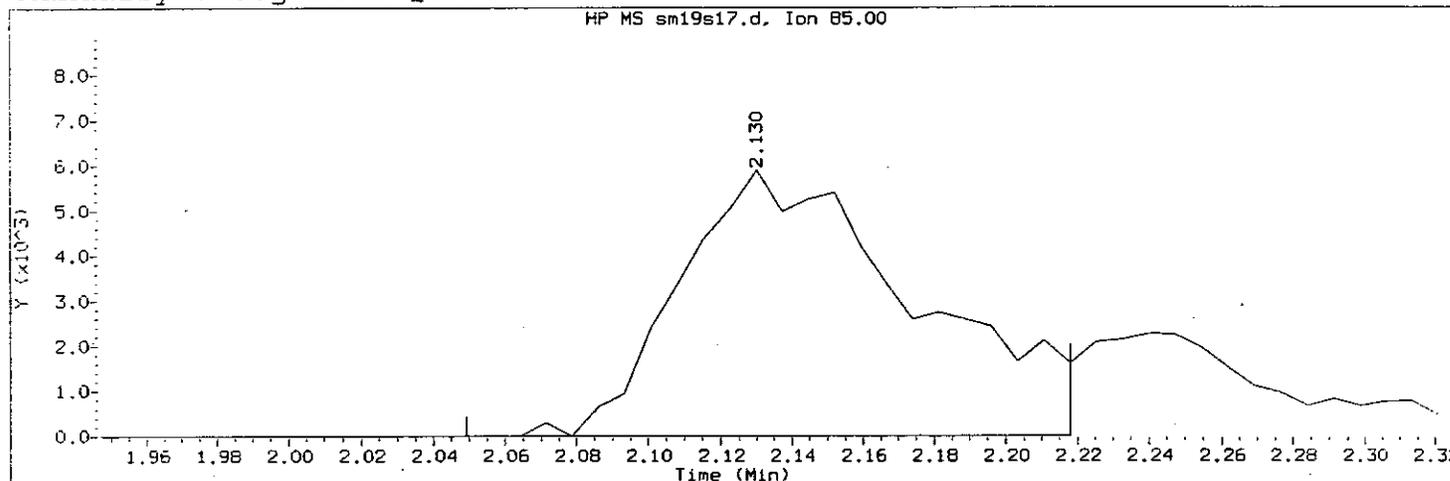
Compound Number : 1
 Compound Name : Dichlorodifluoromethane
 Scan Number : 46
 Retention Time (minutes) : 2.130
 Quant Ion : 85.0
 Area (flag) : 27234 M
 Concentration (ug/L) : 0.3055

WAT09 8121

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 01:17 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: RES02 Lab Sample ID: 5621920

Compound Number : 1
 Compound Name : Dichlorodifluoromethane
 Scan Number : 46
 Retention Time (minutes): 2.130
 Quant Ion : 85
 Area (flag) : 27234 M
 Concentration (ug/L) : 0.3055
 Integration start scan : 34 Integration stop scan: 57
 Y at integration start : 0 Y at integration end: 0

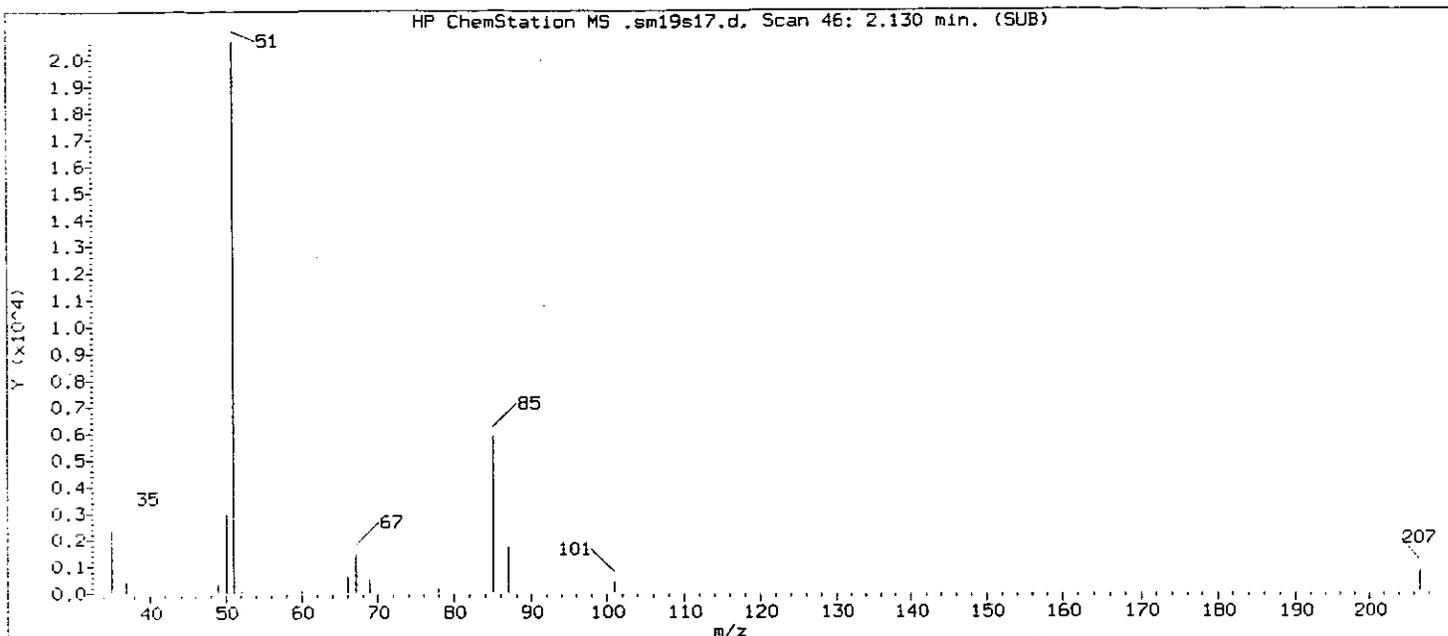
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [Signature] [Signature]

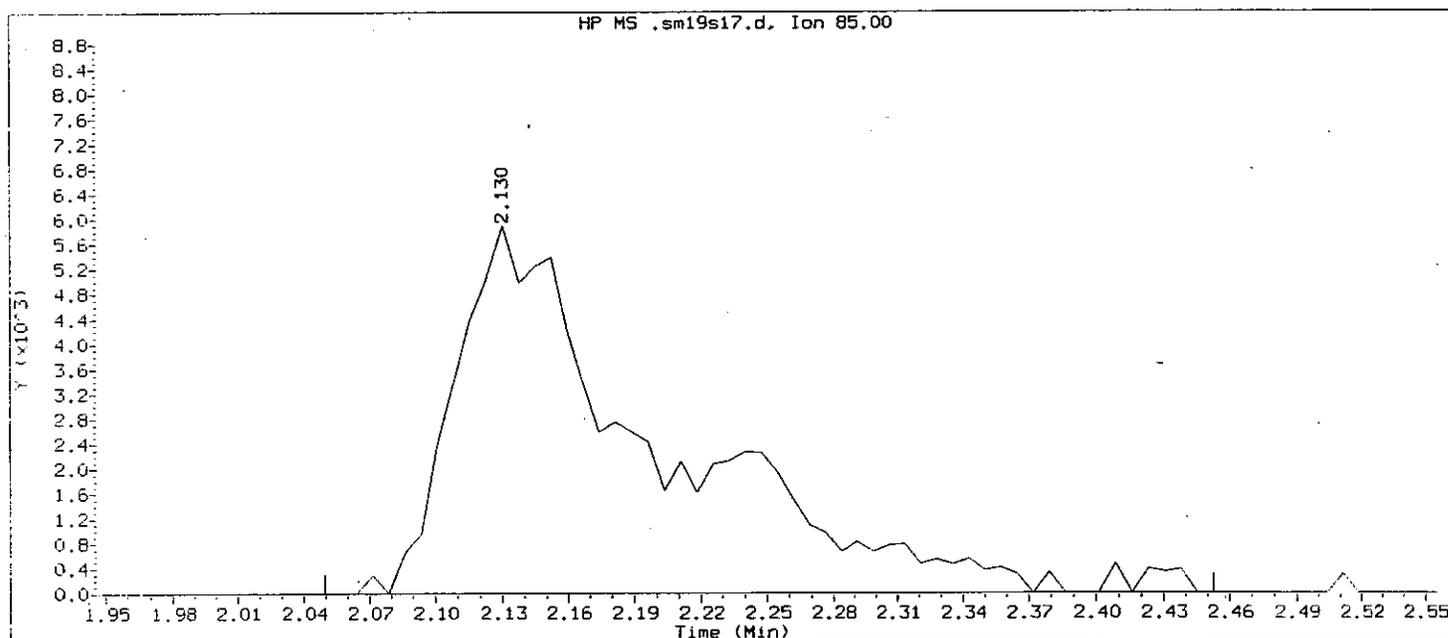
GC/MS audit/management approval: [Signature] 8/24/09

WAT09 8122

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 01:17 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV3
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 20-Mar-2009 05:03 amd00492

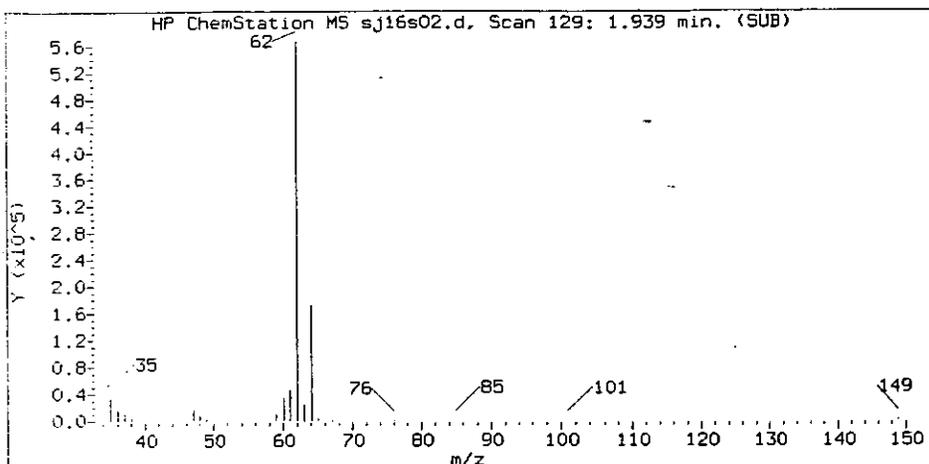
Sample Name: RES02

Lab Sample ID: 5621920

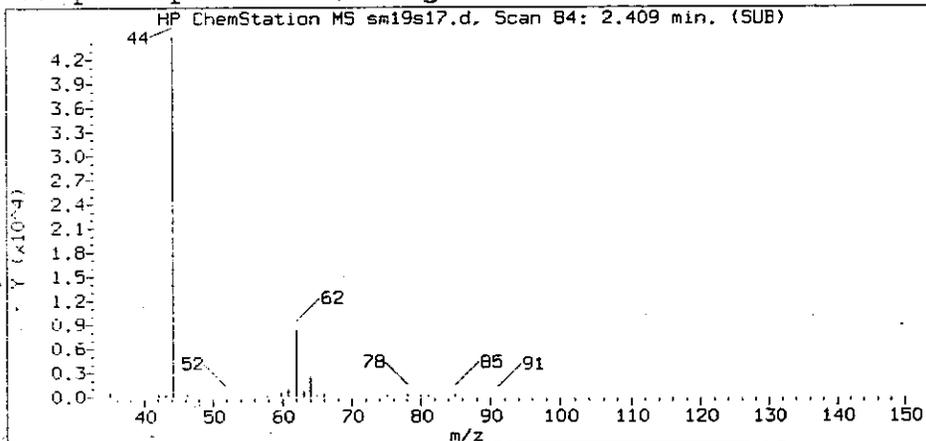
Compound Number : 1
 Compound Name : Dichlorodifluoromethane
 Scan Number : 46
 Retention Time (minutes): 2.130
 Quant Ion : 85
 Area : 37343
 Concentration (ug/L) : 0.4189
 Integration start scan : 34 Integration stop scan: 89
 Y at integration start : 0 Y at integration end: 0

WAT89 8123

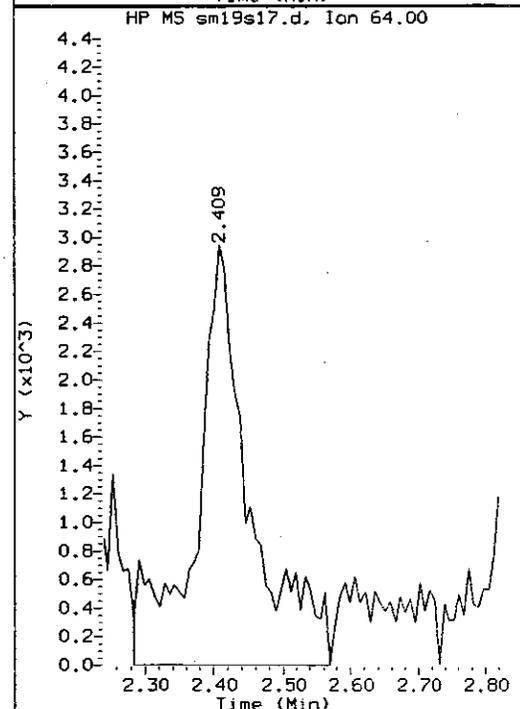
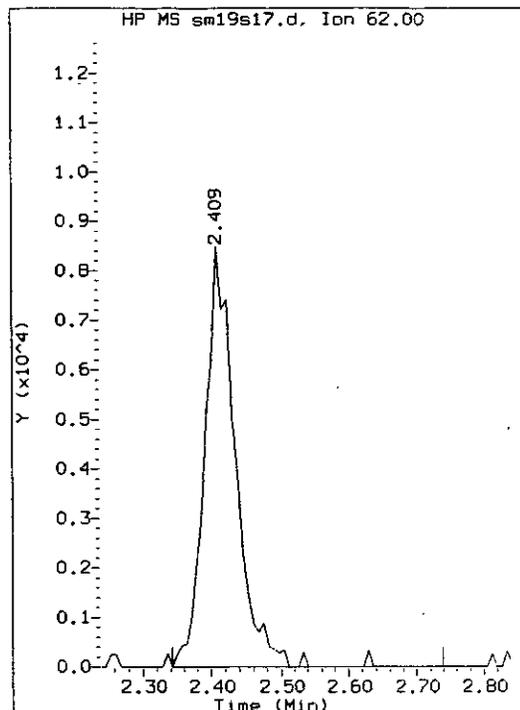
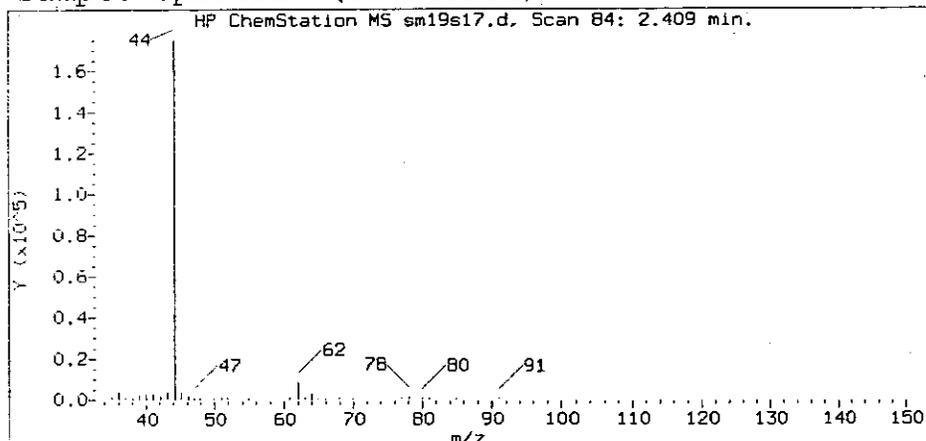
Reference Standard Spectrum for Vinyl Chloride



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d
 Injection date and time: 20-MAR-2009 01:17

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

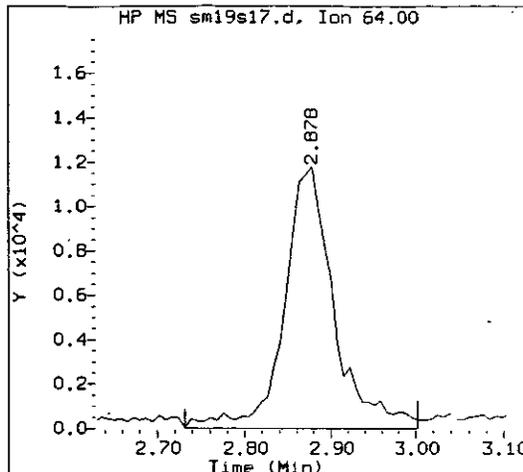
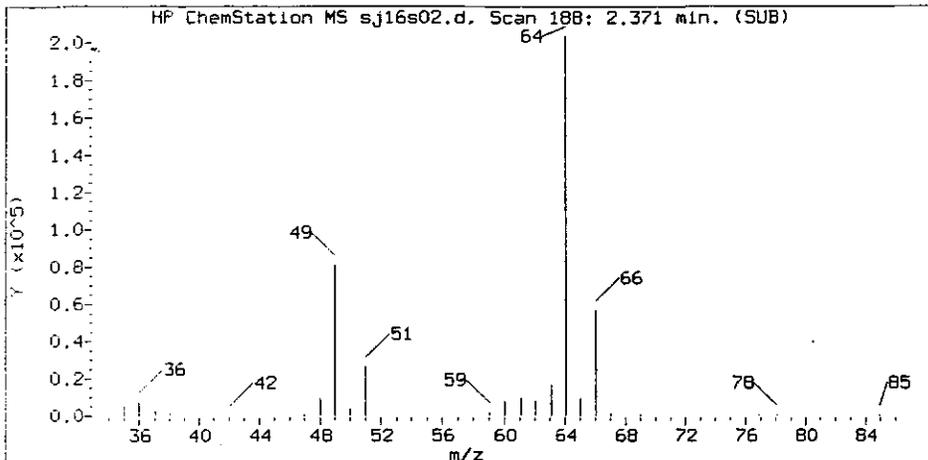
Sample Name: RES02

Lab Sample ID: 5621920

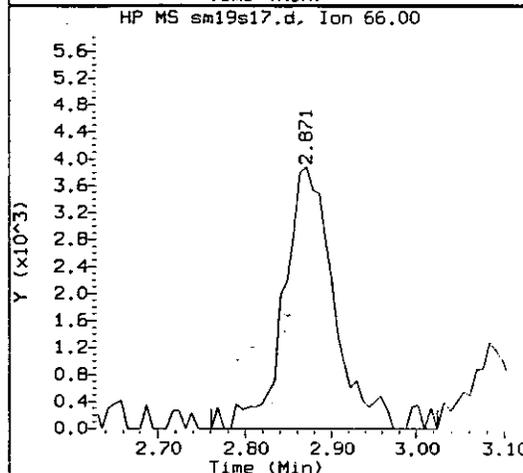
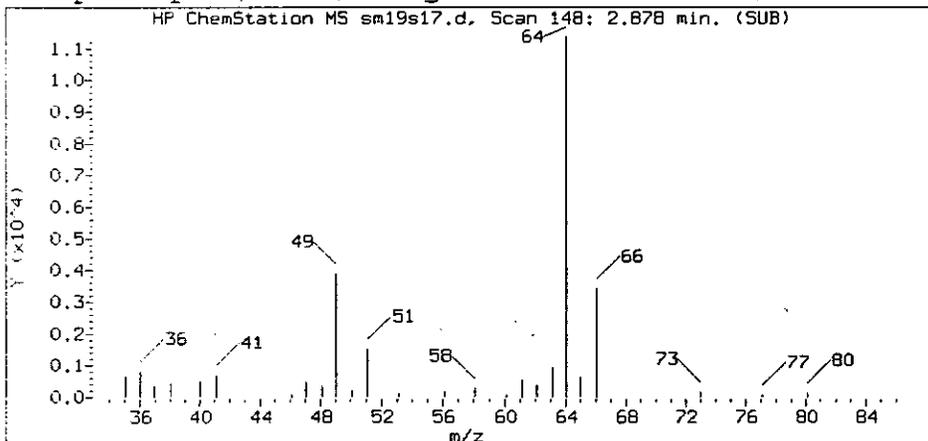
Compound Number : 3
 Compound Name : Vinyl Chloride
 Scan Number : 84
 Retention Time (minutes): 2.409
 Quant Ion : 62.0
 Area (flag) : 25879
 Concentration (ug/L) : 0.1420

WATER 8124

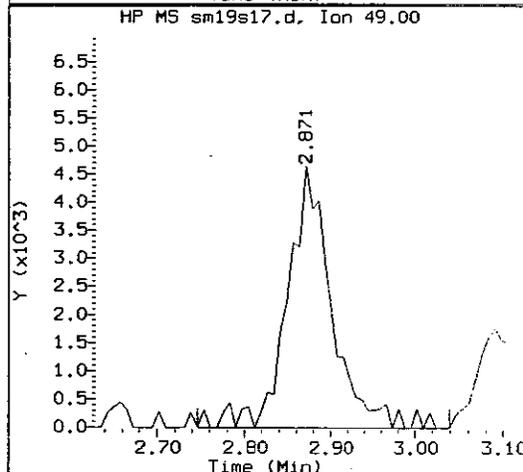
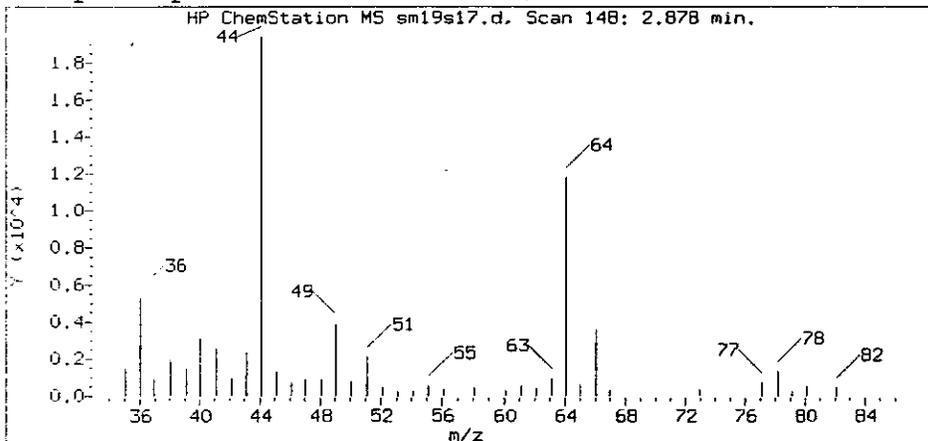
Reference Standard Spectrum for Chloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d
 Injection date and time: 20-MAR-2009 01:17

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

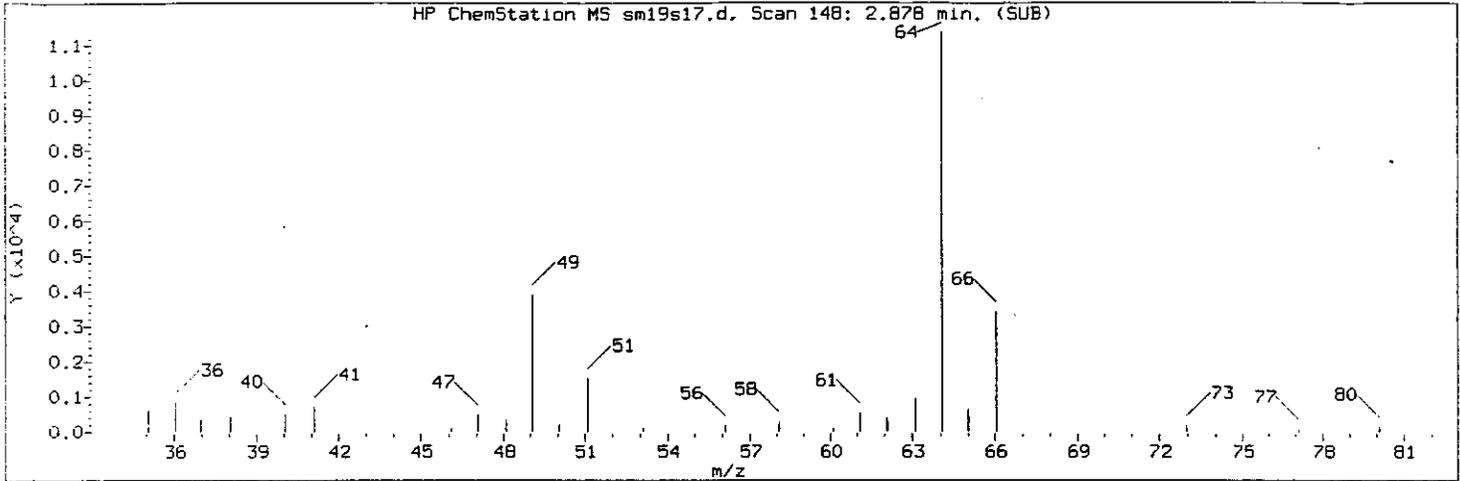
Sample Name: RES02

Lab Sample ID: 5621920

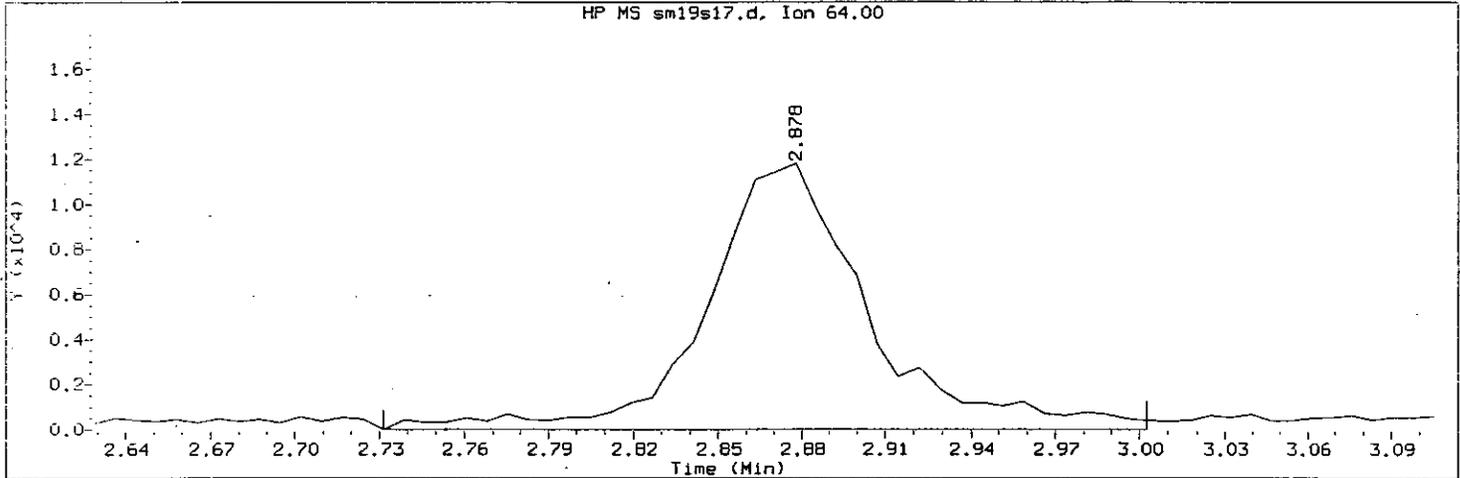
Compound Number : 5
 Compound Name : Chloroethane
 Scan Number : 148
 Retention Time (minutes) : 2.878
 Quant Ion : 64.0
 Area (flag) : 47297 M
 Concentration (ug/L) : 0.4955

MAR09 8:25

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 01:17 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: RES02 Lab Sample ID: 5621920

Compound Number : 5
 Compound Name : Chloroethane
 Scan Number : 148
 Retention Time (minutes): 2.878
 Quant Ion : 64
 Area (flag) : 47297 M
 Concentration (ug/L) : 0.4955
 Integration start scan : 127 Integration stop scan: 164
 Y at integration start : 0 Y at integration end: 0

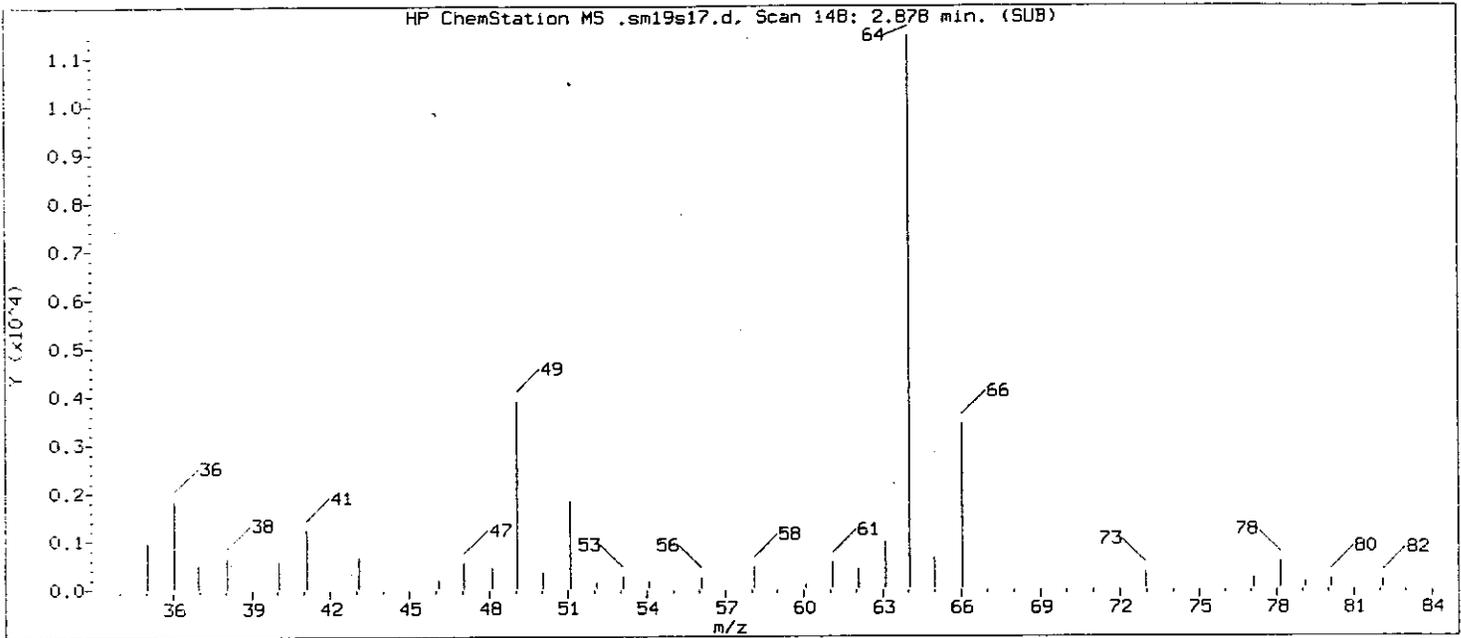
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [Signature]

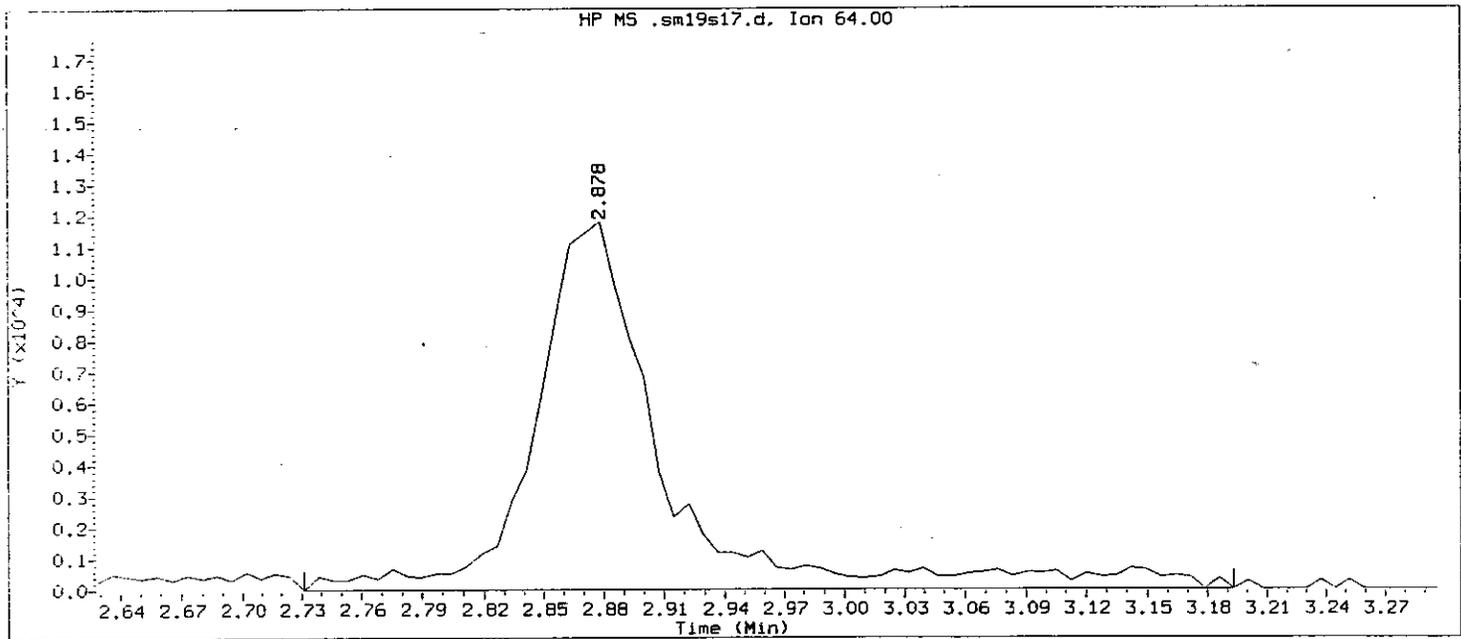
WAT89 8126

GC/MS audit/management approval: [Signature] 3/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d Instrument ID: SH08359.i
Injection date and time: 20-MAR-2009 01:17 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV3
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 20-Mar-2009 05:03 amd00492

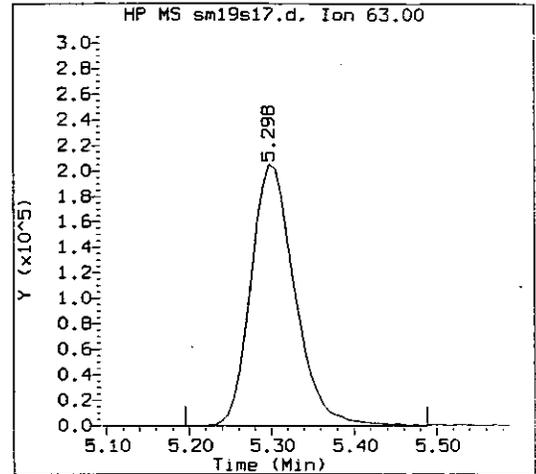
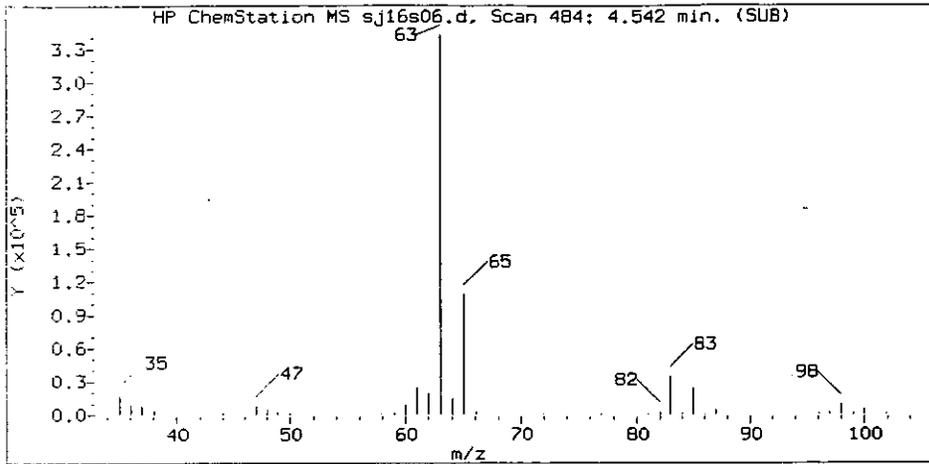
Sample Name: RES02

Lab Sample ID: 5621920

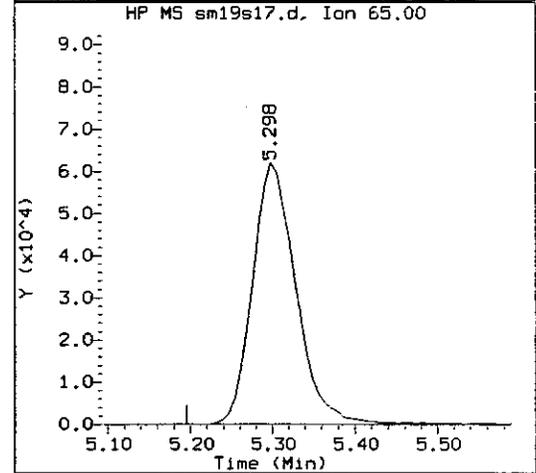
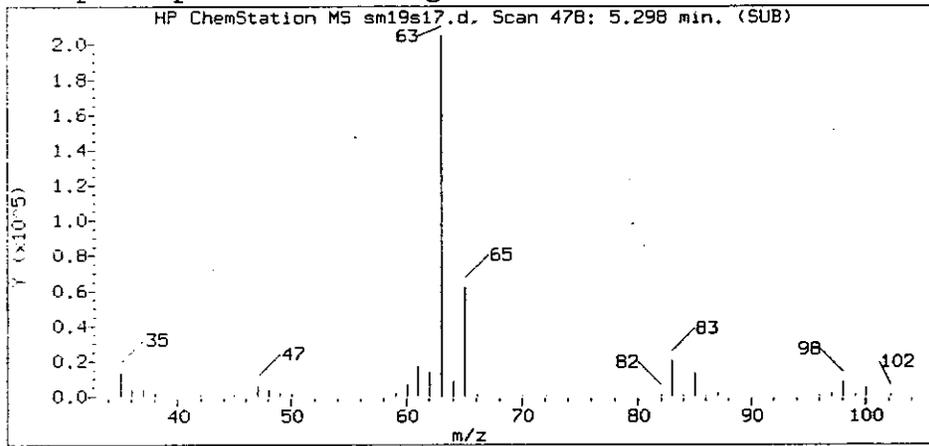
Compound Number : 5
Compound Name : Chloroethane
Scan Number : 148
Retention Time (minutes): 2.878
Quant Ion : 64
Area : 52426
Concentration (ug/L) : 0.5492
Integration start scan : 127 Integration stop scan: 190
Y at integration start : 0 Y at integration end: 0

HA189 8127

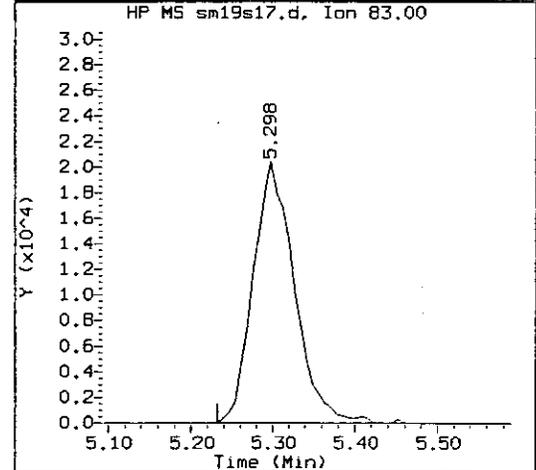
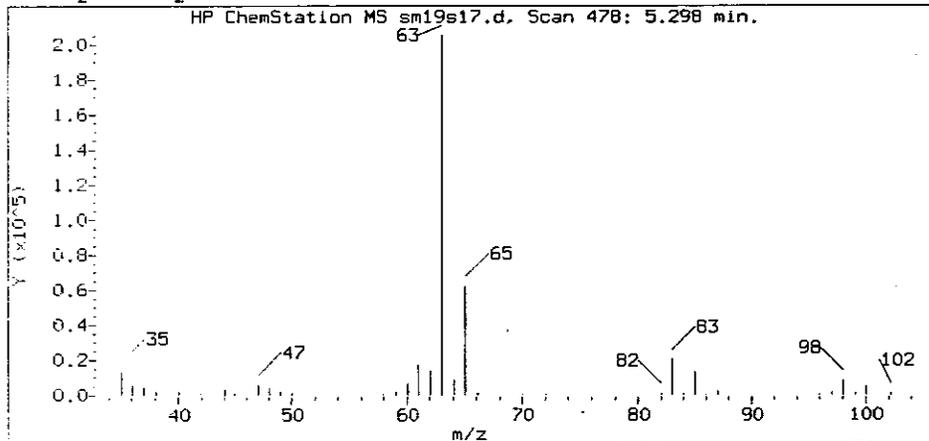
Reference Standard Spectrum for 1,1-Dichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d
 Injection date and time: 20-MAR-2009 01:17

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

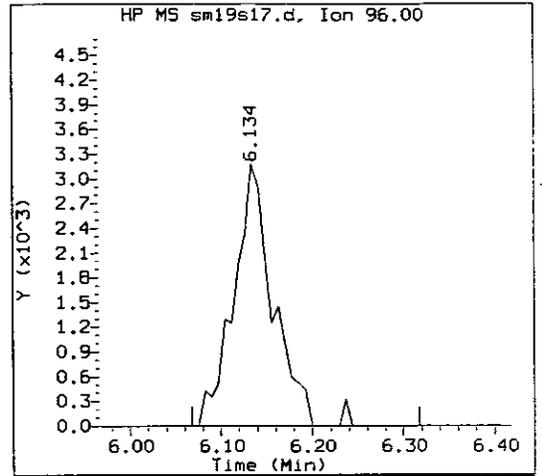
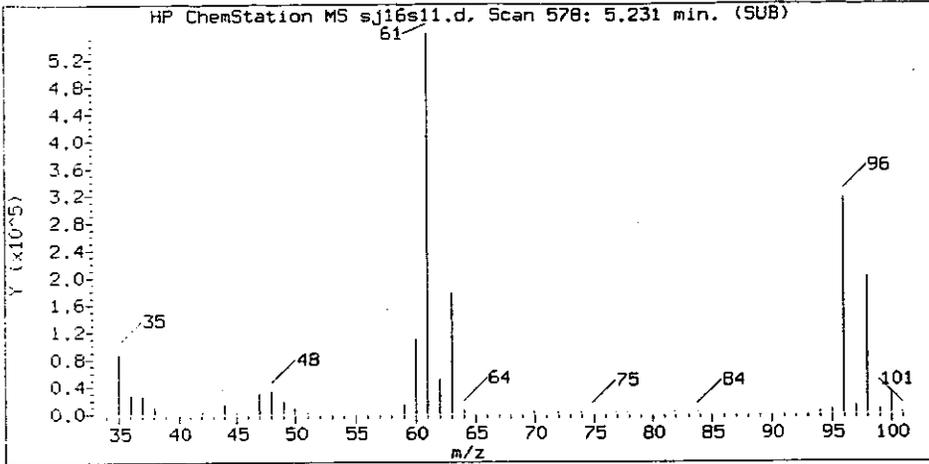
Sample Name: RES02

Lab Sample ID: 5621920

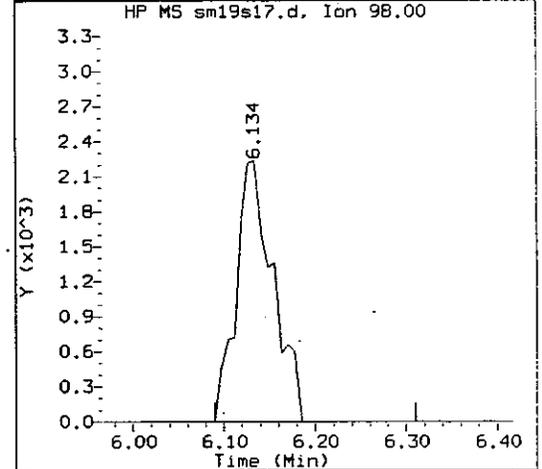
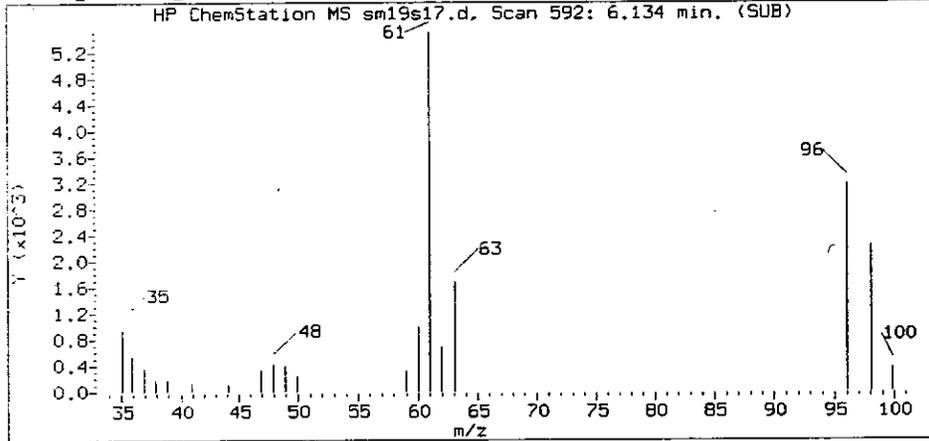
Compound Number : 22
 Compound Name : 1,1-Dichloroethane
 Scan Number : 478
 Retention Time (minutes) : 5.298
 Quant Ion : 63.0
 Area (flag) : 764547
 Concentration (ug/L) : 4.1975

DATE: 0128

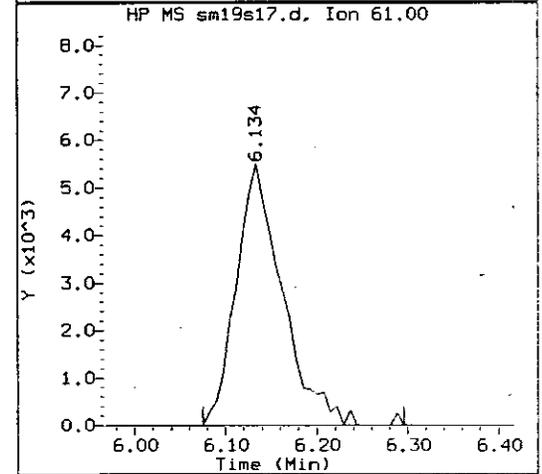
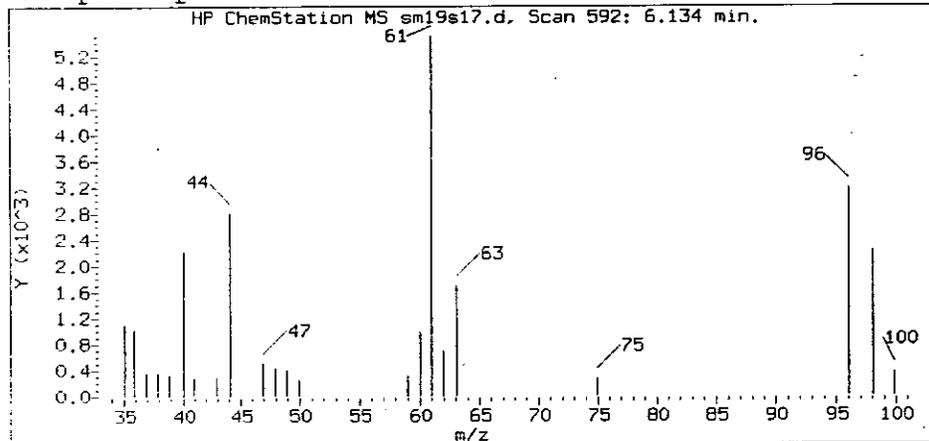
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d
 Injection date and time: 20-MAR-2009 01:17

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

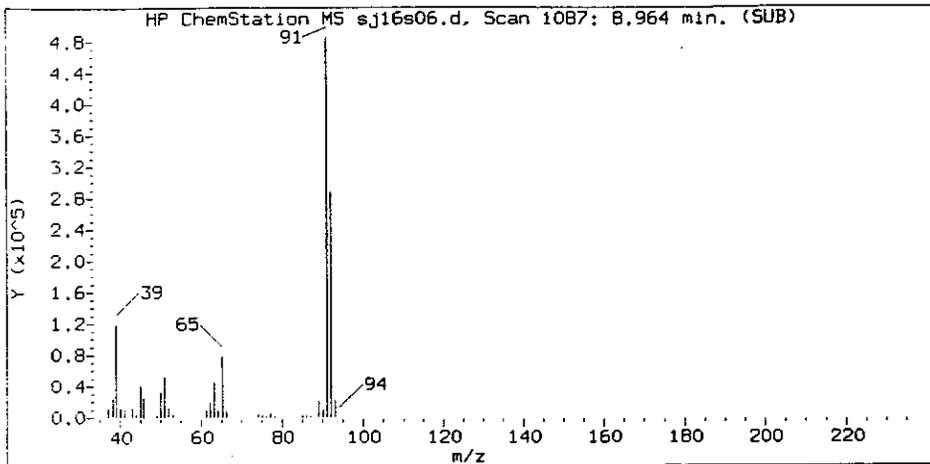
Sample Name: RES02

Lab Sample ID: 5621920

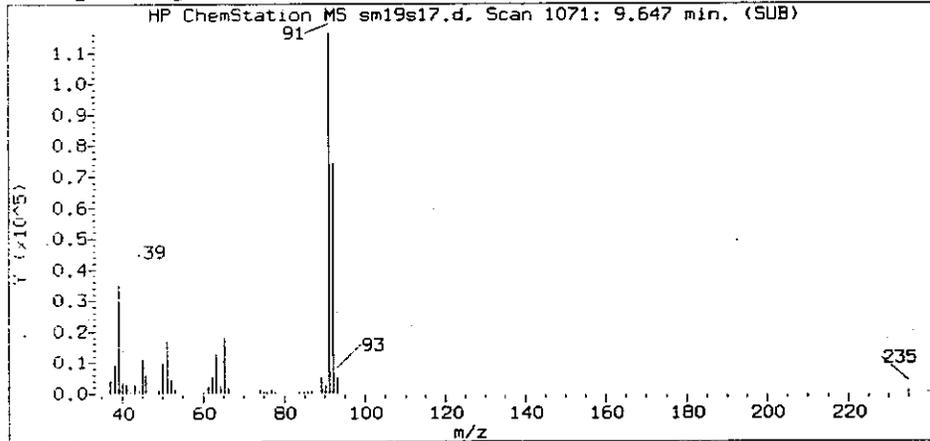
Compound Number : 26
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 592
 Retention Time (minutes) : 6.134
 Quant Ion : 96.0
 Area (flag) : 9599
 Concentration (ug/L) : 0.1421

DATE: 6129

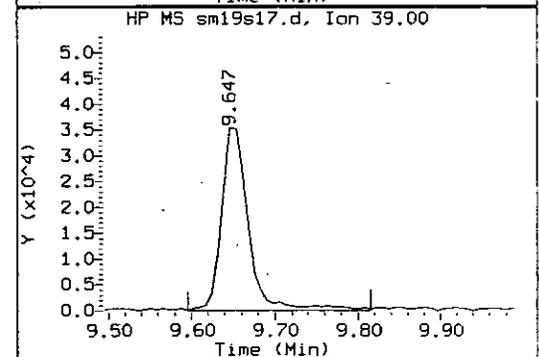
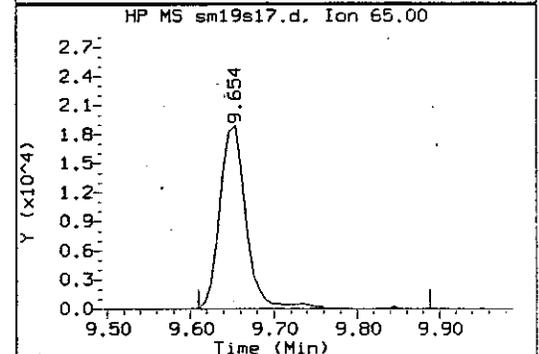
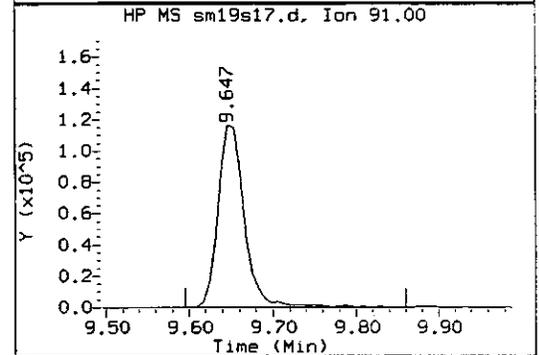
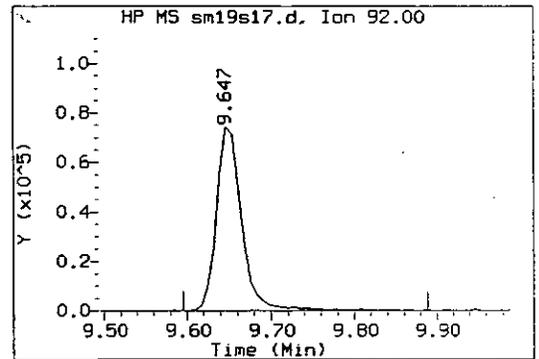
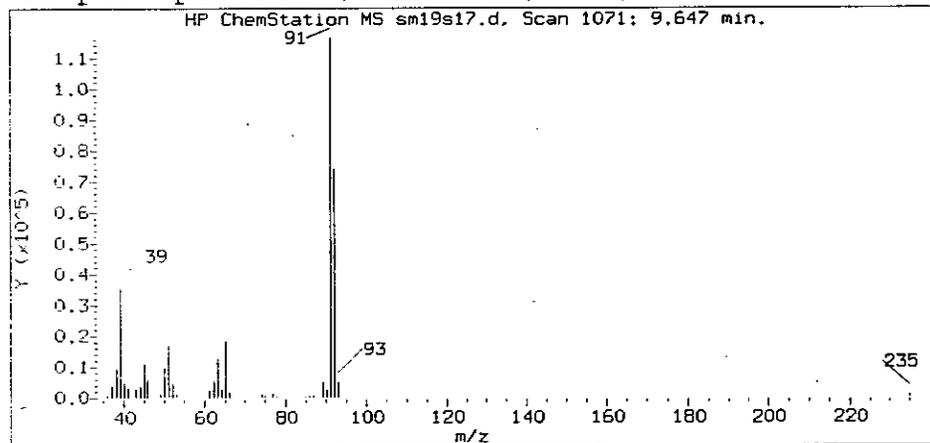
Reference Standard Spectrum for Toluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s17.d
 Injection date and time: 20-MAR-2009 01:17

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: RES02

Lab Sample ID: 5621920

Compound Number : 53
 Compound Name : Toluene
 Scan Number : 1071
 Retention Time (minutes): 9.647
 Quant Ion : 92.0
 Area (flag) : 154936
 Concentration (ug/L) : 1.0438

WATER 8139

TWATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621921

File: /chem/SH08359.i/09mar19a.b/sm19s18.d
Sample: TWATA;5621921;1;0;;;DRAPER;
Injected At:20-MAR-2009 01:44
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:38A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.777(0.007) | 816 | 96 | 1030388(-26) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.986(-0.001) | 174 | 206679 | 4.943 | 99% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(-0.001) | 152 | 172465 | 4.654 | 93% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|-------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | 4.345(0.002) | 84 | 16824 | 0.308 | 0.31 | | J | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

TWATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621921

File: /chem/SH08359.i/09mar19a.b/sm19s18.d
Sample: TWATA;5621921;1;0;;;DRAPER;
Injected At:20-MAR-2009 01:44
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:38A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|-------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 53) Toluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 67) m+p-Xylene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 69) Styrene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 71) Bromoform | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

TWATA

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5621921

File: /chem/SH08359.i/09mar19a.b/sml9s18.d
Sample: TWATA;5621921;1;0;;;DRAPER;
Injected At: 20-MAR-2009 01:44
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 38A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 88) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 99) n-Butylbenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | | 0.40 | 0.50 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

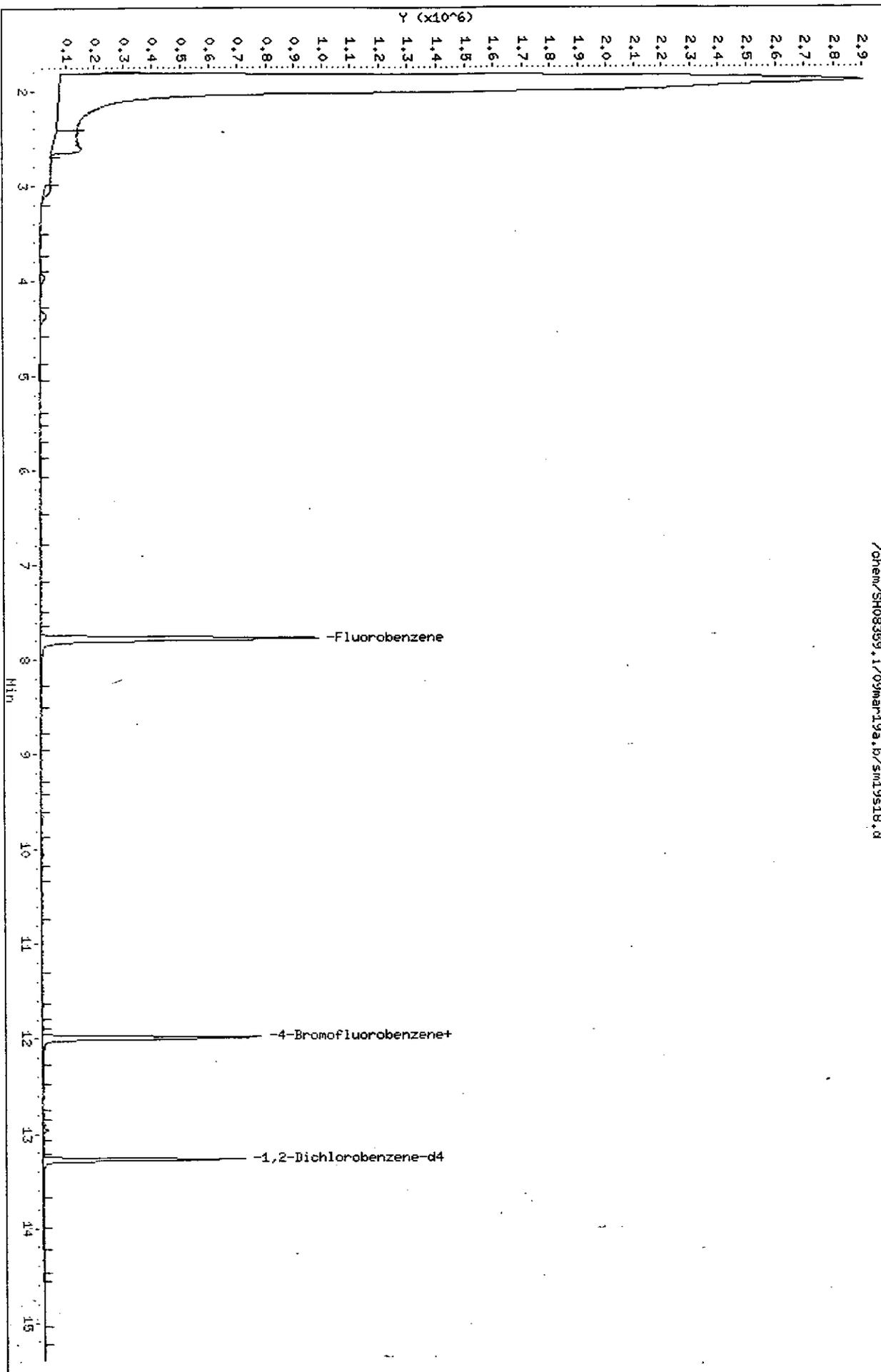
Analyst: *MM* Date: 3/23/09

Auditor: *MM* Date: 3/24/09

Data File: /chem/SH08359.1/09mar19a.b/sm19s18.d
Date: 20-MAR-2009 01:44
Client ID: TMA7A
Sample Info: TMA7A;5621921;110;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: LCH01518
Column diameter: 0.25

/chem/SH08359.1/09mar19a.b/sm19s18.d



Handwritten signature

0134 0819

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s18.d Instrument ID: SH08359.i
Injection date and time: 20-MAR-2009 01:44 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 23-Mar-2009 16:41 rvn00349

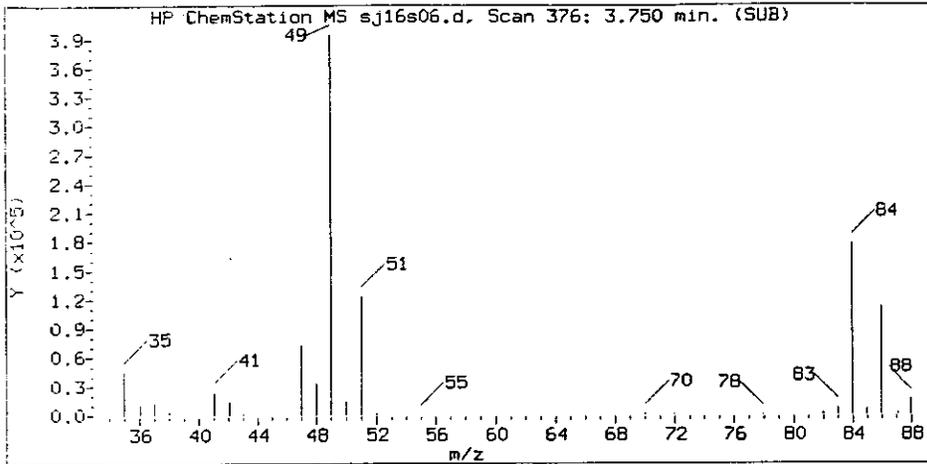
Sample Name: TWATA

Lab Sample ID: 5621921

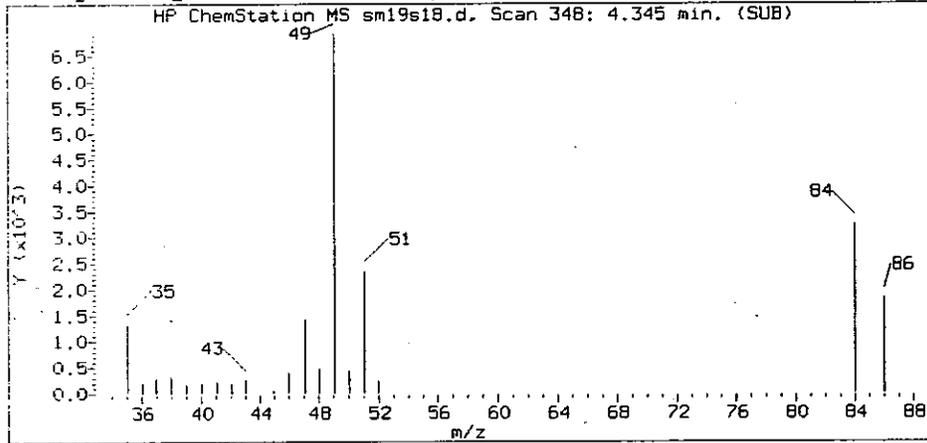
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 17) Methylene Chloride | (1) | 4.345 | 84 | 16824 | 0.308 |
| 42)*Fluorobenzene | (1) | 7.777 | 96 | 1030388 | 5.000 |
| 73)\$4-Bromofluorobenzene | (1) | 11.986 | 174 | 206679 | 4.943 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 172465 | 4.654 |

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

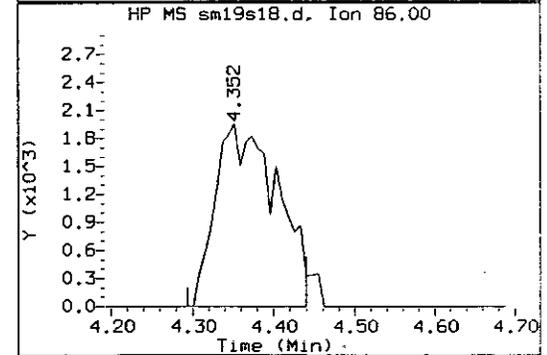
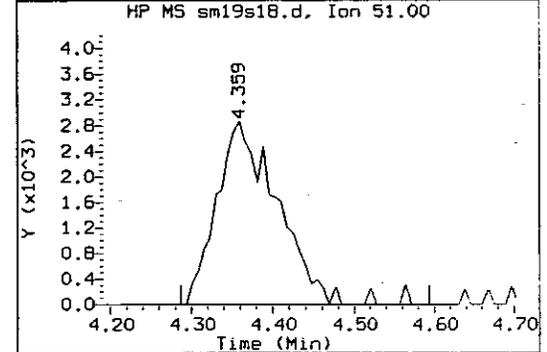
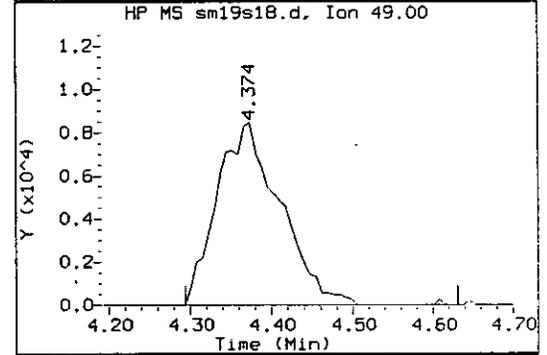
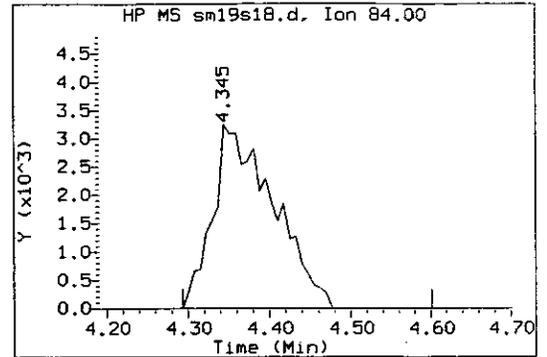
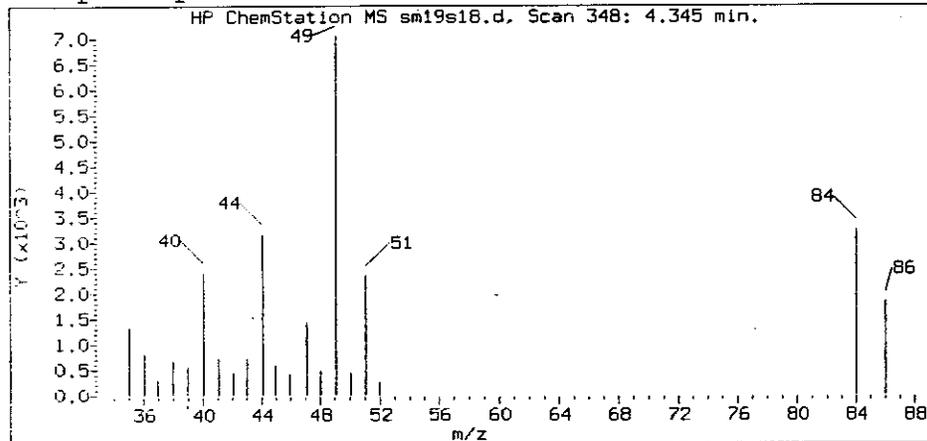
Reference Standard Spectrum for Methylene Chloride



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s18.d
 Injection date and time: 20-MAR-2009 01:44

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:41 rvn00349

Sample Name: TWATA

Lab Sample ID: 5621921

Compound Number : 17
 Compound Name : Methylene Chloride
 Scan Number : 348
 Retention Time (minutes) : 4.345
 Quant Ion : 84.0
 Area (flag) : 16824
 Concentration (ug/L) : 0.3084

~~WATER 8136~~

Standards Data

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: SH08359 Calibration Date(s): 03/18/09 03/18/09
 Heated Purge: (Y/N) N Calibration Time(s): 16:28 17:48
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

| LAB FILE ID: RRF 0.5 sm18i04.d RRF 5 = sm18i03.d | | RRF 10= sm18i02.d RRF 25= sm18i01.d RRF = | | | | | | | |
|--|---------|---|--------|--------|-----|--------|-------|-------------|--|
| COMPOUND | RRF 0.5 | RRF 5 | RRF 10 | RRF 25 | RRF | RRF | % RSD | CAL. METHOD | |
| Dichlorodifluoromethane | 0.3628 | 0.4202 | 0.4056 | 0.4535 | | 0.4105 | 9 | AVG | |
| Chloromethane | 1.4140 | 1.1449 | 1.1282 | 1.0033 | | 1.1726 | 15 | AVG | |
| Vinyl Chloride | 0.9932 | 0.8107 | 0.8025 | 0.7515 | | 0.8395 | 13 | AVG | |
| Bromomethane | 0.3678 | 0.3815 | 0.3791 | 0.3814 | | 0.3774 | 2 | AVG | |
| Chloroethane | 0.4268 | 0.4451 | 0.4400 | 0.4465 | | 0.4396 | 2 | AVG | |
| Dichlorofluoromethane | 0.8251 | 0.8981 | 0.8993 | 0.8688 | | 0.8728 | 4 | AVG | |
| Trichlorofluoromethane | 0.3659 | 0.4246 | 0.4101 | 0.4295 | | 0.4075 | 7 | AVG | |
| Ethyl Ether | 0.1623 | 0.1934 | 0.1921 | 0.1895 | | 0.1843 | 8 | AVG | |
| Acrolein | 0.0294 | 0.0286 | 0.0302 | 0.0294 | | 0.0294 | 2 | AVG | |
| 1,1-Dichloroethene | 0.3790 | 0.2910 | 0.2993 | 0.2935 | | 0.3157 | 13 | AVG | |
| Freon 113 | 0.2847 | 0.3028 | 0.3017 | 0.2946 | | 0.2959 | 3 | AVG | |
| Acetone | 0.0195 | 0.0108 | 0.0115 | 0.0121 | | 0.0135 | 30 | 2NDDEG | |
| Methyl Iodide | 0.5593 | 0.5738 | 0.5924 | 0.5535 | | 0.5698 | 3 | AVG | |
| Carbon Disulfide | 1.0433 | 1.0553 | 1.0720 | 1.0020 | | 1.0432 | 3 | AVG | |
| Allyl Chloride | 0.8084 | 0.8939 | 0.9079 | 0.8149 | | 0.8563 | 6 | AVG | |
| Methylene Chloride | 0.2774 | 0.2593 | 0.2623 | 0.2600 | | 0.2648 | 3 | AVG | |
| t-Butyl Alcohol | 0.0108 | 0.0080 | 0.0087 | 0.0095 | | 0.0092 | 13 | AVG | |
| Acrylonitrile | 0.0461 | 0.0517 | 0.0541 | 0.0569 | | 0.0522 | 9 | AVG | |
| trans-1,2-Dichloroethene | 0.3497 | 0.3367 | 0.3494 | 0.3324 | | 0.3421 | 3 | AVG | |
| Methyl Tertiary Butyl Ether | 0.3238 | 0.3344 | 0.3543 | 0.3598 | | 0.3431 | 5 | AVG | |
| 1,1-Dichloroethane | 0.9710 | 0.7913 | 0.8452 | 0.7475 | | 0.8387 | 12 | AVG | |
| di-Isopropyl Ether | 0.1640 | 0.1744 | 0.1837 | 0.1832 | | 0.1763 | 5 | AVG | |
| Ethyl t-Butyl Ether | 0.7940 | 0.8300 | 0.8853 | 0.8963 | | 0.8514 | 6 | AVG | |
| cis-1,2-Dichloroethene | 0.2992 | 0.3107 | 0.3241 | 0.3104 | | 0.3111 | 3 | AVG | |
| 2,2-Dichloropropane | 0.3499 | 0.3474 | 0.3628 | 0.3423 | | 0.3506 | 2 | AVG | |
| 2-Butanone | 0.0661 | 0.0776 | 0.0858 | 0.0832 | | 0.0782 | 11 | AVG | |
| Propionitrile | 0.0176 | 0.0171 | 0.0184 | 0.0201 | | 0.0183 | 7 | AVG | |
| Methyl Acrylate | 0.0945 | 0.1359 | 0.1370 | 0.1365 | | 0.1260 | 17 | AVG | |
| Methacrylonitrile | 0.0407 | 0.0460 | 0.0490 | 0.0483 | | 0.0460 | 8 | AVG | |
| Bromochloromethane | 0.0915 | 0.1090 | 0.1096 | 0.1054 | | 0.1039 | 8 | AVG | |
| Tetrahydrofuran | 0.0101 | 0.0100 | 0.0105 | 0.0106 | | 0.0103 | 3 | AVG | |
| Chloroform | 0.5092 | 0.4579 | 0.4728 | 0.4634 | | 0.4758 | 5 | AVG | |
| 1,1,1-Trichloroethane | 0.3411 | 0.3491 | 0.3621 | 0.3454 | | 0.3494 | 3 | AVG | |
| 1-Chlorobutane | 0.0358 | 0.0420 | 0.0405 | 0.0393 | | 0.0394 | 7 | AVG | |
| Carbon Tetrachloride | 0.2719 | 0.2847 | 0.2922 | 0.2863 | | 0.2838 | 3 | AVG | |
| 1,1-Dichloropropene | 0.4108 | 0.4271 | 0.4530 | 0.4306 | | 0.4304 | 4 | AVG | |
| Benzene | 1.3107 | 1.1234 | 1.1705 | 0.9047 | | 1.1273 | 15 | AVG | |
| 1,2-Dichloroethane | 0.2673 | 0.2538 | 0.2651 | 0.2690 | | 0.2638 | 3 | AVG | |
| t-Amyl Methyl Ether | 0.3887 | 0.4273 | 0.4537 | 0.4538 | | 0.4309 | 7 | AVG | |
| Trichloroethene | 0.3067 | 0.3166 | 0.3247 | 0.3081 | | 0.3140 | 3 | AVG | |
| 1,2-Dichloropropane | 0.4034 | 0.3823 | 0.3969 | 0.3864 | | 0.3923 | 2 | AVG | |
| Methyl Methacrylate | 0.0633 | 0.0744 | 0.0817 | 0.0833 | | 0.0757 | 12 | AVG | |
| Dibromomethane | 0.0966 | 0.0979 | 0.1015 | 0.1000 | | 0.0990 | 2 | AVG | |
| Bromodichloromethane | 0.2511 | 0.2595 | 0.2693 | 0.2675 | | 0.2618 | 3 | AVG | |
| 2-Nitropropane | 0.0010 | 0.0014 | 0.0014 | 0.0015 | | 0.0013 | 17 | AVG | |
| Chloroacetonitrile | 0.0041 | 0.0043 | 0.0046 | 0.0049 | | 0.0045 | 8 | AVG | |
| cis-1,3-Dichloropropene | 0.3304 | 0.3333 | 0.3523 | 0.3430 | | 0.3397 | 3 | AVG | |
| 4-Methyl-2-Pentanone | 0.0494 | 0.0527 | 0.0565 | 0.0520 | | 0.0526 | 6 | AVG | |
| 1,1-Dichloropropanone | 0.0012 | 0.0015 | 0.0016 | 0.0017 | | 0.0015 | 14 | AVG | |
| Toluene | 0.7594 | 0.6720 | 0.7068 | 0.5960 | | 0.6835 | 10 | AVG | |
| trans-1,3-Dichloropropene | 0.2171 | 0.2300 | 0.2424 | 0.2405 | | 0.2325 | 5 | AVG | |
| Ethyl Methacrylate | 0.1298 | 0.1510 | 0.1674 | 0.1699 | | 0.1545 | 12 | AVG | |

44789 8138

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: SH08359 Calibration Date(s): 03/18/09 03/18/09
 Heated Purge: (Y/N) N Calibration Time(s): 16:28 17:48
 Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 0.5 sm18i04.d RRF 5 = sm18i03.d
 RRF 10= sm18i02.d RRF 25= sm18i01.d RRF =

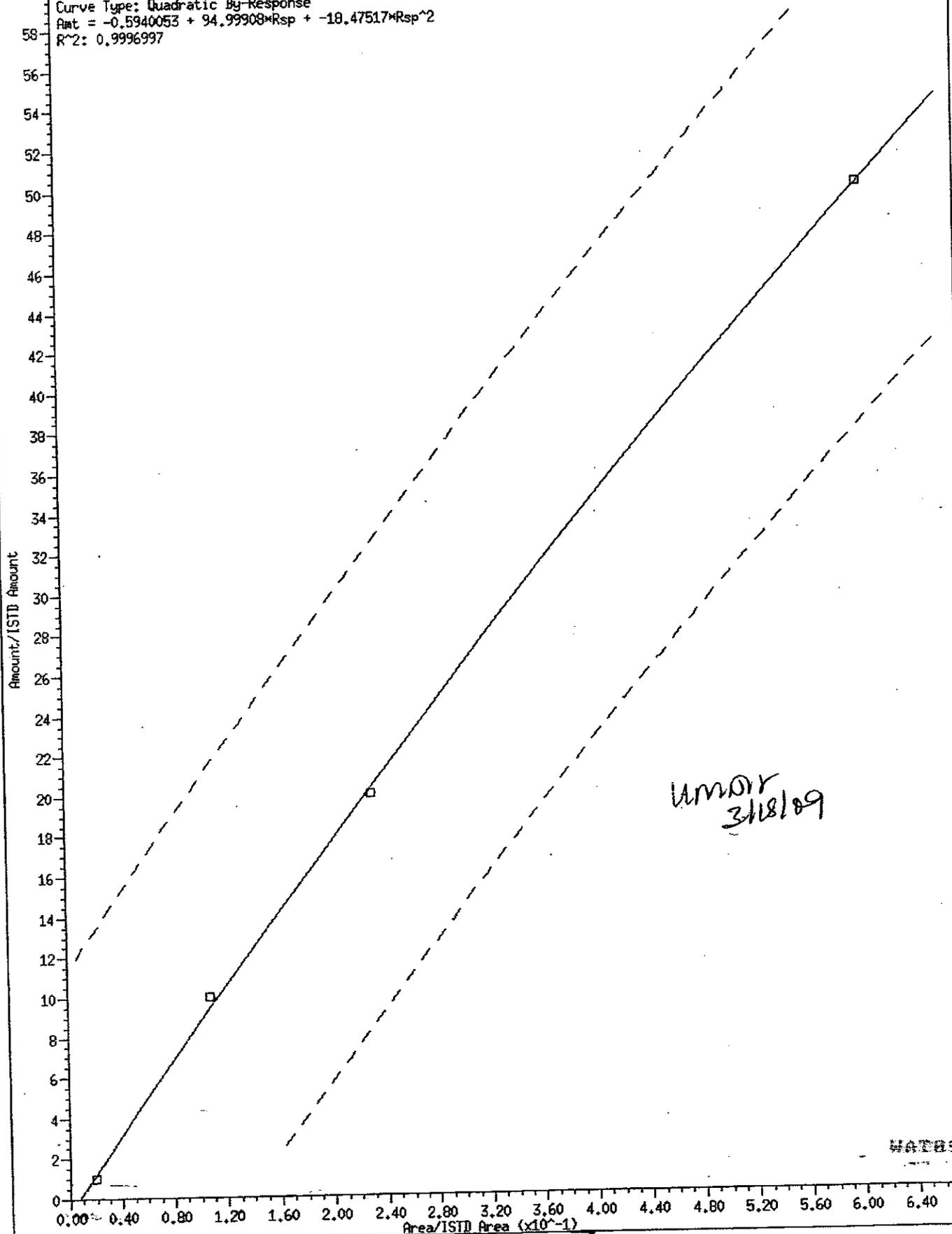
| COMPOUND | RRF 0.5 | RRF 5 | RRF 10 | RRF 25 | RRF | RRF | % RSD | CAL. METHOD |
|-----------------------------|---------|--------|--------|--------|-----|--------|-------|-------------|
| 1,1,2-Trichloroethane | 0.0930 | 0.1003 | 0.1026 | 0.1035 | | 0.0999 | 5 | AVG |
| Tetrachloroethene | 0.2661 | 0.2899 | 0.3051 | 0.2900 | | 0.2877 | 6 | AVG |
| 1,3-Dichloropropane | 0.2003 | 0.2059 | 0.2184 | 0.2191 | | 0.2109 | 4 | AVG |
| 2-Hexanone | 0.0453 | 0.0472 | 0.0509 | 0.0471 | | 0.0476 | 5 | AVG |
| Dibromochloromethane | 0.1454 | 0.1504 | 0.1611 | 0.1613 | | 0.1546 | 5 | AVG |
| 1,2-Dibromoethane | 0.1121 | 0.1159 | 0.1210 | 0.1203 | | 0.1173 | 4 | AVG |
| Chlorobenzene | 0.6153 | 0.5942 | 0.6194 | 0.5550 | | 0.5960 | 5 | AVG |
| 1,1,1,2-Tetrachloroethane | 0.1759 | 0.1928 | 0.2023 | 0.2027 | | 0.1934 | 6 | AVG |
| Ethylbenzene | 0.3909 | 0.3596 | 0.3833 | 0.3676 | | 0.3753 | 4 | AVG |
| m,p-Xylene | 0.5110 | 0.4481 | 0.4757 | 0.3474 | | 0.4456 | 16 | AVG |
| o-Xylene | 0.4595 | 0.4054 | 0.4334 | 0.4155 | | 0.4285 | 6 | AVG |
| Styrene | 0.5278 | 0.6170 | 0.6634 | 0.5658 | | 0.5935 | 10 | AVG |
| Bromoform | 0.0646 | 0.0731 | 0.0780 | 0.0805 | | 0.0741 | 9 | AVG |
| Isopropylbenzene | 0.2883 | 0.2578 | 0.2690 | 0.2686 | | 0.2709 | 5 | AVG |
| 1,1,2,2-Tetrachloroethane | 0.1161 | 0.1166 | 0.1230 | 0.1278 | | 0.1209 | 5 | AVG |
| Bromobenzene | 0.2013 | 0.2130 | 0.2263 | 0.2320 | | 0.2181 | 6 | AVG |
| 1,2,3-Trichloropropane | 0.0231 | 0.0251 | 0.0268 | 0.0285 | | 0.0259 | 9 | AVG |
| trans-1,4-Dichloro-2-Butene | 0.0398 | 0.0426 | 0.0460 | 0.0423 | | 0.0427 | 6 | AVG |
| n-Propylbenzene | 0.2455 | 0.2679 | 0.2837 | 0.2831 | | 0.2700 | 7 | AVG |
| 2-Chlorotoluene | 0.2269 | 0.2432 | 0.2552 | 0.2519 | | 0.2443 | 5 | AVG |
| 1,3,5-Trimethylbenzene | 0.9097 | 0.7889 | 0.8383 | 0.6291 | | 0.7915 | 15 | AVG |
| 4-Chlorotoluene | 0.2404 | 0.2445 | 0.2597 | 0.2581 | | 0.2507 | 4 | AVG |
| tert-Butylbenzene | 0.1659 | 0.1854 | 0.1972 | 0.1999 | | 0.1871 | 8 | AVG |
| Pentachloroethane | 0.1055 | 0.1270 | 0.1281 | 0.1366 | | 0.1243 | 11 | AVG |
| 1,2,4-Trimethylbenzene | 0.8809 | 0.7823 | 0.8306 | 0.6324 | | 0.7816 | 14 | AVG |
| sec-Butylbenzene | 0.1706 | 0.1908 | 0.2052 | 0.2099 | | 0.1941 | 9 | AVG |
| p-Isopropyltoluene | 0.7063 | 0.7608 | 0.8123 | 0.6489 | | 0.7321 | 10 | AVG |
| 1,3-Dichlorobenzene | 0.3860 | 0.4064 | 0.4356 | 0.4554 | | 0.4209 | 7 | AVG |
| 1,4-Dichlorobenzene | 0.3860 | 0.3973 | 0.4202 | 0.4283 | | 0.4079 | 5 | AVG |
| n-Butylbenzene | 0.4650 | 0.4880 | 0.5159 | 0.4676 | | 0.4841 | 5 | AVG |
| 1,2-Dichlorobenzene | 0.3038 | 0.2976 | 0.3186 | 0.3351 | | 0.3138 | 5 | AVG |
| Hexachloroethane | 0.1149 | 0.1491 | 0.1477 | 0.1504 | | 0.1405 | 12 | AVG |
| 1,2-Dibromo-3-Chloropropane | 0.0118 | 0.0127 | 0.0136 | 0.0163 | | 0.0136 | 14 | AVG |
| Nitrobenzene | 0.0029 | 0.0022 | 0.0026 | 0.0033 | | 0.0027 | 18 | AVG |
| 1,2,4-Trichlorobenzene | 0.1720 | 0.1581 | 0.1710 | 0.1870 | | 0.1720 | 7 | AVG |
| Hexachlorobutadiene | 0.1687 | 0.1218 | 0.1258 | 0.1300 | | 0.1366 | 16 | AVG |
| Naphthalene | 0.2008 | 0.1775 | 0.1966 | 0.2145 | | 0.1973 | 8 | AVG |
| 1,2,3-Trichlorobenzene | 0.1320 | 0.1134 | 0.1221 | 0.1321 | | 0.1249 | 7 | AVG |
| 4-Bromofluorobenzene | 0.1971 | 0.2065 | 0.2025 | 0.2055 | | 0.2029 | 2 | AVG |
| 1,2-Dichlorobenzene-d4 | 0.1644 | 0.1789 | 0.1765 | 0.1995 | | 0.1798 | 8 | AVG |

Average %RSD 8

WATER 8139

12 Acetone

Curve Type: Quadratic By-Response
Amt = -0.5940053 + 94.99908*Rsp + -18.47517*Rsp^2
R^2: 0.9996997



UMOR
3/18/09

EPA Method 524
Internal/Surrogate Standard Area and Retention Time Summary

Initial Calibration Standards:

```

/chem/SH08359.i/09mar18b.b/sml8i01.d VSTD025
/chem/SH08359.i/09mar18b.b/sml8i02.d VSTD010
/chem/SH08359.i/09mar18b.b/sml8i03.d VSTD005
/chem/SH08359.i/09mar18b.b/sml8i04.d VSTD0.5
    
```

Area Summary

File ID:

| Internal/Surrogate Standard Name | sml8i01.d | sml8i02.d | sml8i03.d | sml8i04.d | Avg. Area | %RSD | In Spec |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|------|---------|
| Fluorobenzene | 1888469 | 1849293 | 1714085 | 1647190 | 1774759 | 6 | Yes |
| 4-Bromofluorobenzene | 388118 | 374528 | 353903 | 324727 | 360319 | 8 | Yes |
| 1,2-Dichlorobenzene-d4 | 376702 | 326427 | 306731 | 270724 | 320146 | 14 | Yes |

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

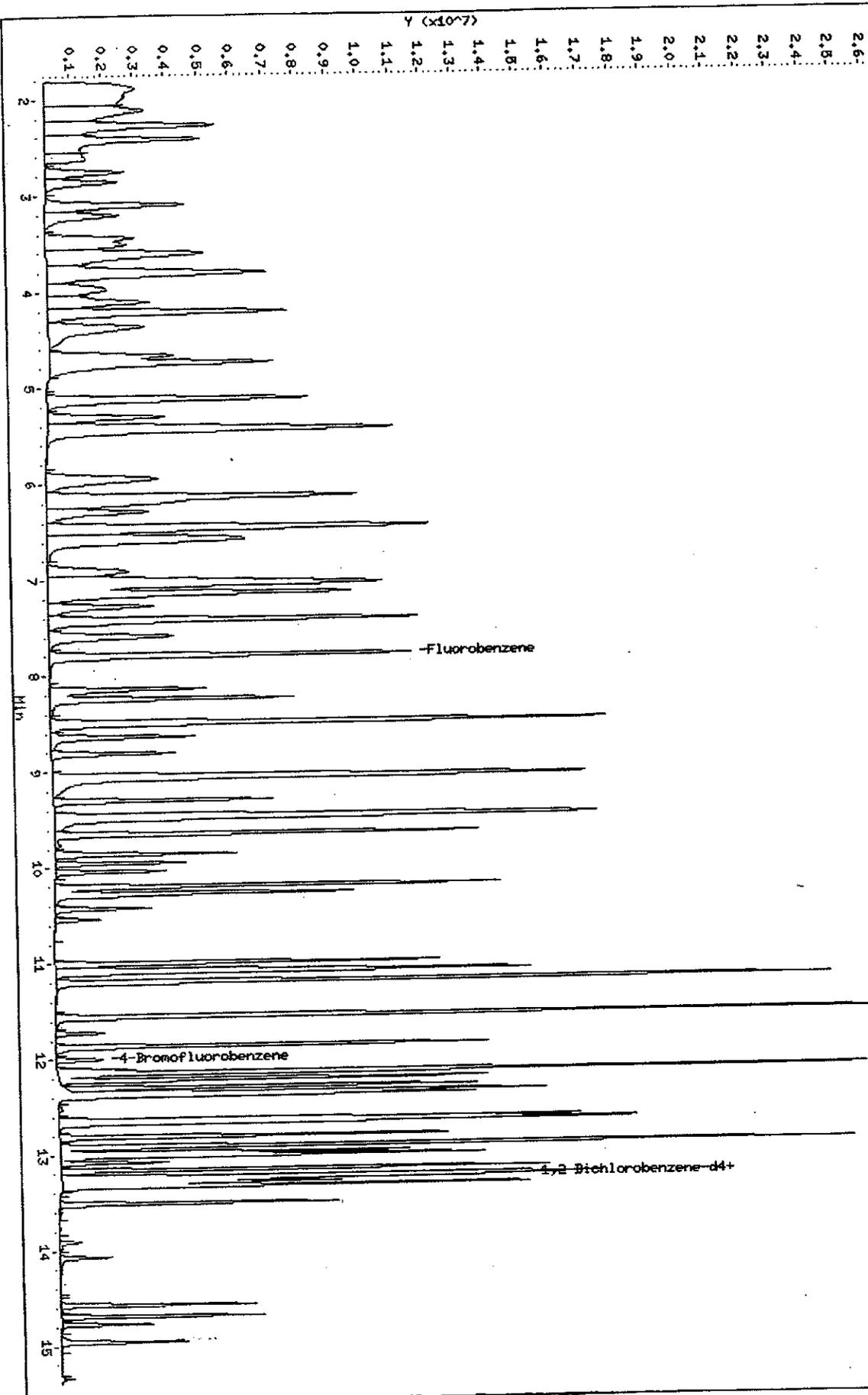
| Internal/Surrogate Standard Name | sml8i01.d | sml8i02.d | sml8i03.d | sml8i04.d | Avg. RT |
|-------------------------------------|-----------|-----------|-----------|-----------|---------|
| Fluorobenzene | 7.784 | 7.784 | 7.784 | 7.784 | 7.784 |
| 4-Bromofluorobenzene | 11.993 | 11.993 | 11.993 | 11.993 | 11.993 |
| 1,2-Dichlorobenzene-d4 | 13.277 | 13.277 | 13.277 | 13.277 | 13.277 |

* indicates the retention time is greater than 30 seconds from the average RT.

Data File: /chem/SH08359.1/09mar18b.b/sml8101.d
Date: 18-MAR-2009 16:28
Client ID: VSTD028
Sample Info: VSTD028;VSTD02811;1;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: LCH01518
Column diameter: 0.25

/chem/SH08359.1/09mar18b.b/sml8101.d



UNNOIR
3/18/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i01.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:37 lcm01518

Sample Name: VSTD025

Lab Sample ID: VSTD025

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|----------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.130 | 85 | 4281931 | 26.394 |
| 2) Chloromethane | (1) | 2.284 | 50 | 9473705 | 23.535 |
| 3) Vinyl Chloride | (1) | 2.423 | 62 | 7096011 | 24.180 |
| 4) Bromomethane | (1) | 2.761 | 94 | 3600908 | 25.075 |
| 5) Chloroethane | (1) | 2.863 | 64 | 4216042 | 25.183 |
| 6) Dichlorofluoromethane | (1) | 3.098 | 67 | 8203696 | 24.569 |
| 7) Trichlorofluoromethane | (1) | 3.208 | 101 | 4055581M | 30.138 |
| 8) Ethyl Ether | (1) | 3.443 | 59 | 1789632 | 24.834 |
| 9) Acrolein | (1) | 3.604 | 56 | 13866835 | 1232.316 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 2771670 | 24.759 |
| 11) Freon 113 | (1) | 3.824 | 101 | 2781789 | 24.703 |
| 12) Acetone | (1) | 3.787 | 58 | 1138794 | 255.894 |
| 13) Methyl Iodide | (1) | 3.985 | 142 | 5226306 | 24.151 |
| 14) Carbon Disulfide | (1) | 4.110 | 76 | 9461012 | 24.156 |
| 15) Allyl Chloride | (1) | 4.213 | 39 | 7694452 | 23.651 |
| 17) Methylene Chloride | (1) | 4.367 | 84 | 2454956 | 24.887 |
| 18) t-Butyl Alcohol | (1) | 4.484 | 59 | 1792500 | 521.407 |
| 19) Acrylonitrile | (1) | 4.660 | 53 | 6719858 | 320.605 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741 | 96 | 3139062 | 24.377 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.763 | 73 | 3397088 | 25.191 |
| 22) 1,1-Dichloroethane | (1) | 5.305 | 63 | 7057719M | 23.465 |
| 24) di-Isopropyl Ether | (1) | 5.423 | 87 | 1729399 | 24.961 |
| 25) Ethyl t-Butyl Ether | (1) | 5.951 | 59 | 8462944 | 25.153 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 2930982 | 24.460 |
| 27) 2,2-Dichloropropane | (1) | 6.171 | 77 | 3232060 | 24.273 |
| 28) 2-Butanone | (1) | 6.134 | 43 | 7855475 | 246.093 |
| 29) Propionitrile | (1) | 6.207 | 54 | 3789023 | 521.740 |
| 30) Methyl Acrylate | (1) | 6.295 | 55 | 6445772 | 124.797 |
| 31) Methacrylonitrile | (1) | 6.449 | 67 | 4565270 | 248.412 |
| 32) Bromochloromethane | (1) | 6.479 | 128 | 995481 | 24.515 |
| 33) Tetrahydrofuran | (1) | 6.559 | 71 | 1394910 | 350.186 |
| 34) Chloroform | (1) | 6.596 | 83 | 4375583 | 24.748 |
| 35) 1,1,1-Trichloroethane | (1) | 6.911 | 97 | 3261632 | 24.411 |
| 36) 1-Chlorobutane | (1) | 7.051 | 49 | 371364 | 24.630 |

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i01.d
 Injection date and time: 18-MAR-2009 16:28

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:37 lcm01518

Sample Name: VSTD025

Lab Sample ID: VSTD025

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|----------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.153 | 117 | 2702978 | 24.744 |
| 38) 1,1-Dichloropropene | (1) | 7.139 | 75 | 4065854 | 24.366 |
| 39) Benzene | (1) | 7.425 | 78 | 8542223 | 21.798 |
| 40) 1,2-Dichloroethane | (1) | 7.432 | 62 | 2539735 | 25.180 |
| 41) t-Amyl Methyl Ether | (1) | 7.593 | 73 | 4285066 | 25.003 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1888469 | 5.000 |
| 43) Trichloroethene | (1) | 8.246 | 95 | 2909151 | 24.343 |
| 44) 1,2-Dichloropropane | (1) | 8.503 | 63 | 3648957 | 24.666 |
| 45) Methyl Methacrylate | (1) | 8.635 | 69 | 786298 | 25.245 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 944256 | 24.818 |
| 47) Bromodichloromethane | (1) | 8.811 | 83 | 2525469 | 24.915 |
| 48) 2-Nitropropane | (1) | 9.053 | 46 | 1468312 | 2690.333 |
| 49) Chloroacetonitrile | (1) | 9.075 | 75 | 2327997 | 1293.933 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295 | 75 | 3238284 | 24.663 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.456 | 58 | 4905569 | 239.559 |
| 52) 1,1-Dichloropropanone | (1) | 9.478 | 83 | 1608831 | 2602.807 |
| 53) Toluene | (1) | 9.654 | 92 | 5627864 | 22.875 |
| 55) trans-1,3-Dichloropropene | (1) | 9.859 | 75 | 2270450 | 24.900 |
| 56) Ethyl Methacrylate | (1) | 9.947 | 69 | 1604696 | 25.188 |
| 57) 1,1,2-Trichloroethane | (1) | 10.043 | 83 | 977453 | 25.113 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 2737880 | 24.365 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 2068973 | 25.044 |
| 60) 2-Hexanone | (1) | 10.277 | 58 | 4450156 | 240.427 |
| 61) Dibromochloromethane | (1) | 10.424 | 129 | 1522629M | 25.009 |
| 62) 1,2-Dibromoethane | (1) | 10.541 | 107 | 1136319 | 24.930 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 5240751 | 23.629 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 1913630 | 25.022 |
| 66) Ethylbenzene | (1) | 11.091 | 106 | 3470736 | 24.476 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 6561075 | 42.210 |
| 68) o-Xylene | (1) | 11.546 | 106 | 3923458 | 24.472 |
| 69) Styrene | (1) | 11.553 | 104 | 5342624 | 23.015 |
| 71) Bromoform | (1) | 11.715 | 173 | 760510 | 25.407 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 2536158 | 24.982 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 1206364 | 25.471 |

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i01.d
 Injection date and time: 18-MAR-2009 16:28

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:37 lcm01518

Sample Name: VSTD025

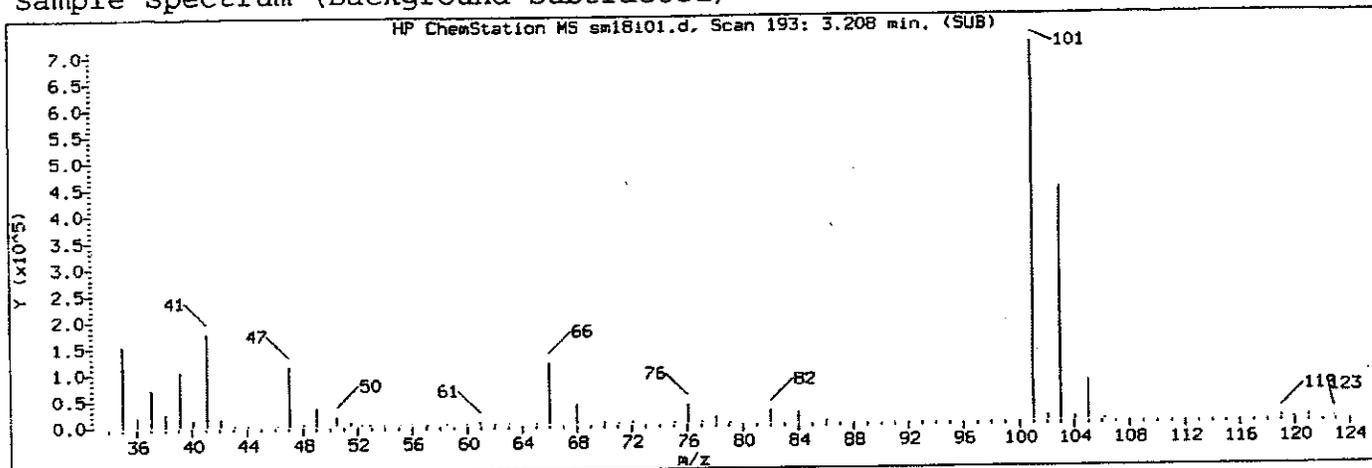
Lab Sample ID: VSTD025

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 75) Bromobenzene | (1) | 12.133 | 156 | 2190740 | 25.311 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140 | 110 | 268975 | 25.759 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.147 | 53 | 3994349 | 239.612 |
| 78) n-Propylbenzene | (1) | 12.213 | 120 | 2672941 | 24.974 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 2378803 | 24.840 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.353 | 105 | 5940233 | 21.436 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 2437067 | 24.923 |
| 82) tert-Butylbenzene | (1) | 12.631 | 134 | 1887965 | 25.173 |
| 83) Pentachloroethane | (1) | 12.653 | 167 | 1289751 | 25.800 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.668 | 105 | 5971782 | 21.615 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 1981936 | 25.285 |
| 86) p-Isopropyltoluene | (1) | 12.925 | 119 | 6127096 | 22.205 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 4299716 | 25.553 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 4043699 | 25.237 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 4414855 | 23.772 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 3163975 | 25.629 |
| 92) Hexachloroethane | (1) | 13.511 | 201 | 1420078 | 25.227 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907 | 157 | 153877 | 27.238 |
| 94) Nitrobenzene | (1) | 14.069 | 77 | 630467 | 565.533 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567 | 180 | 1765669 | 26.117 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 1227323 | 25.413 |
| 97) Naphthalene | (1) | 14.765 | 128 | 2024987 | 26.083 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949 | 180 | 1247175 | 25.986 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 388118M | 5.037 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 376702 | 5.305 |

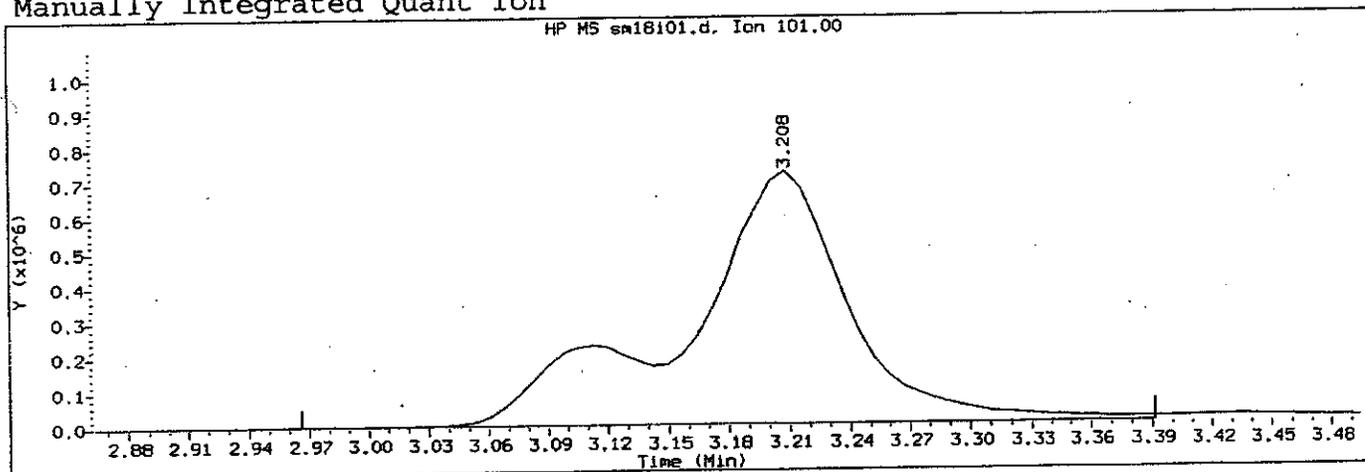
M = Compound was manually integrated.

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18101.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:37
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:37 lcm01518

Sample Name: VSTD025

Lab Sample ID: VSTD025

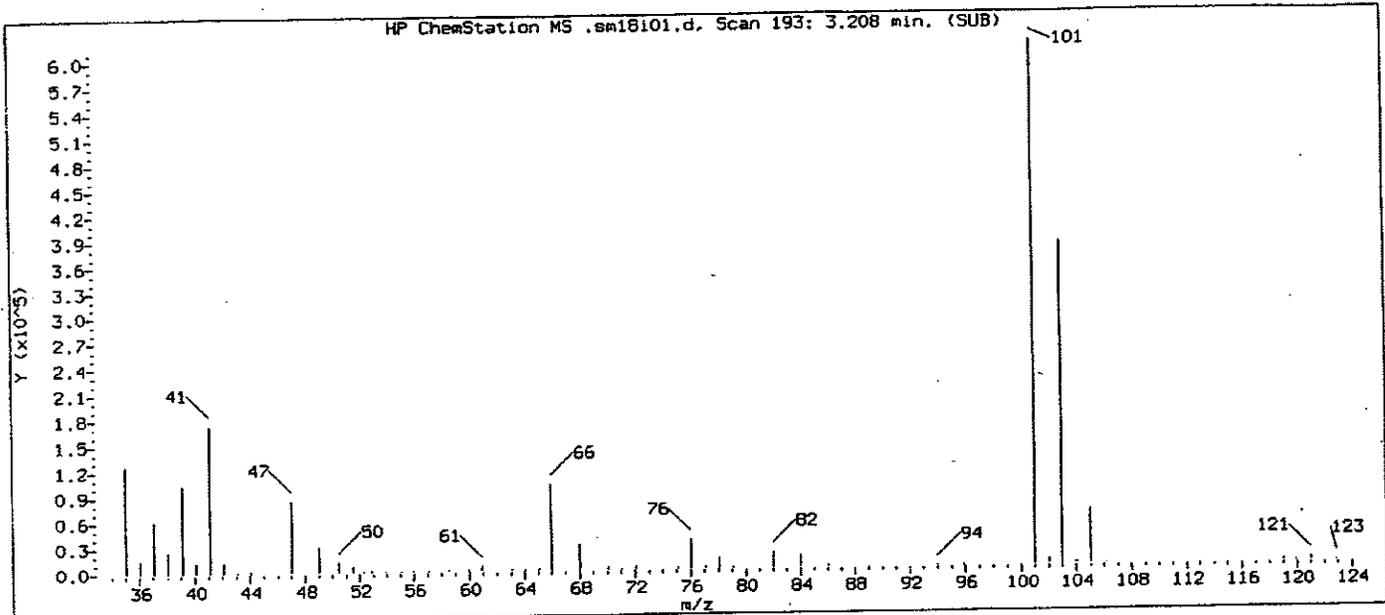
Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 193
 Retention Time (minutes): 3.208
 Quant Ion : 101
 Area (flag) : 4055581 M
 Concentration (ug/L) : 30.1376
 Integration start scan : 159 Integration stop scan: 217
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

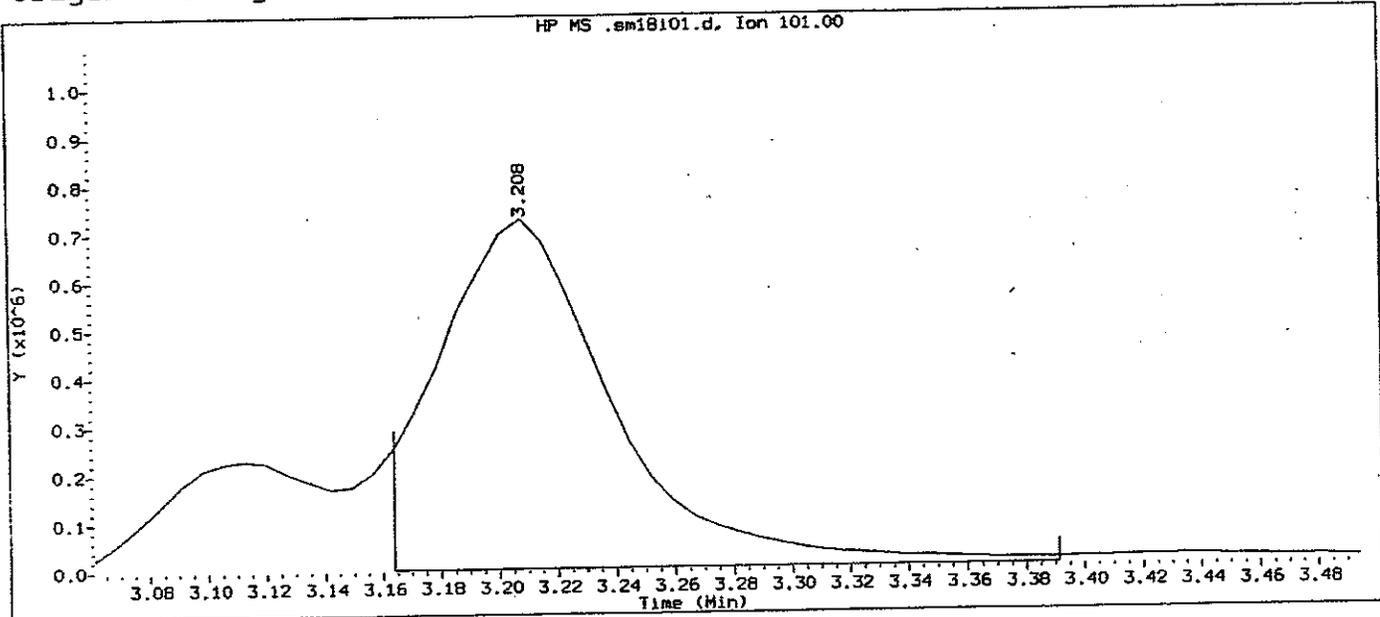
Analyst responsible for change: LCM 03/18/09

GC/MS audit/management approval: PPM 3/19/09 DATE: 0146

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i01.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:27
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:27 lcm01518

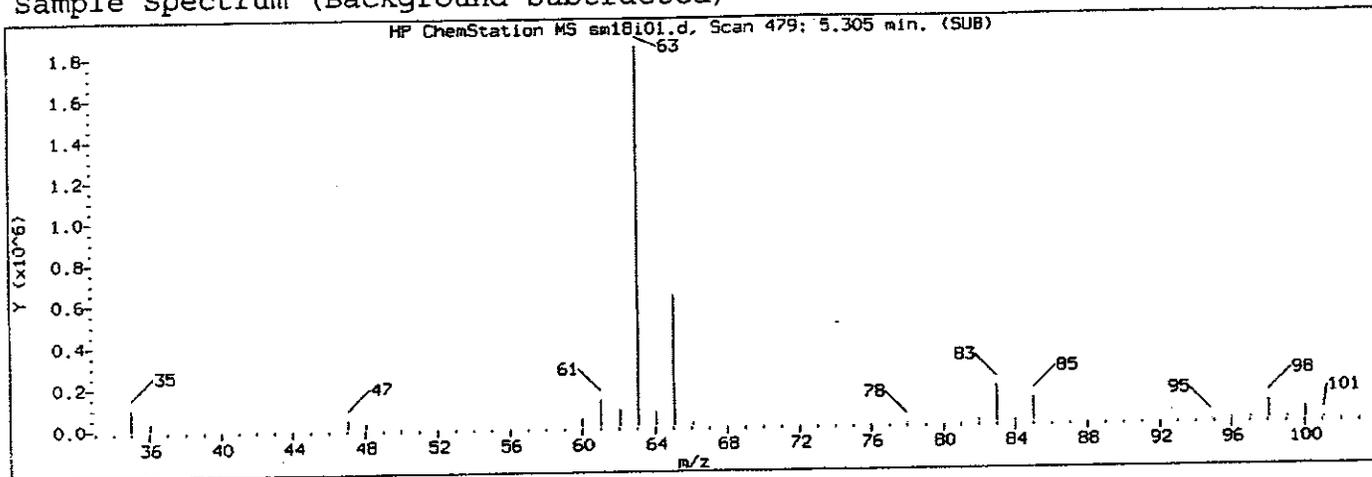
Sample Name: VSTD025

Lab Sample ID: VSTD025

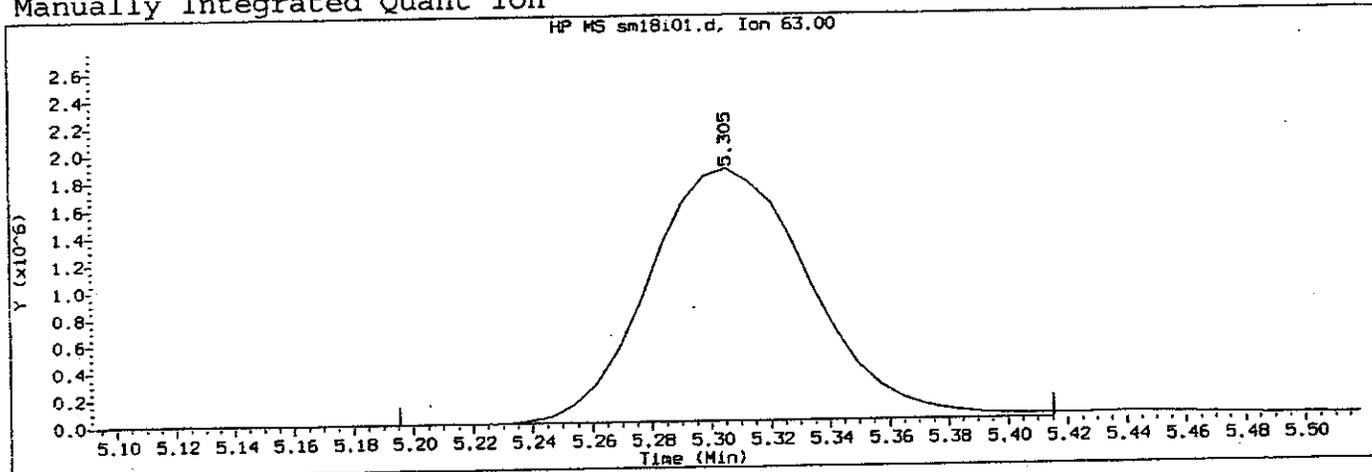
Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 193
 Retention Time (minutes) : 3.208
 Quant Ion : 101
 Area : 2975540
 Concentration (ug/L) : 25.0000
 Integration start scan : 186 Integration stop scan: 217
 Y at integration start : 0 Y at integration end: 0

WAT189 0147

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i01.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:37
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:37 lcm01518

Sample Name: VSTD025

Lab Sample ID: VSTD025

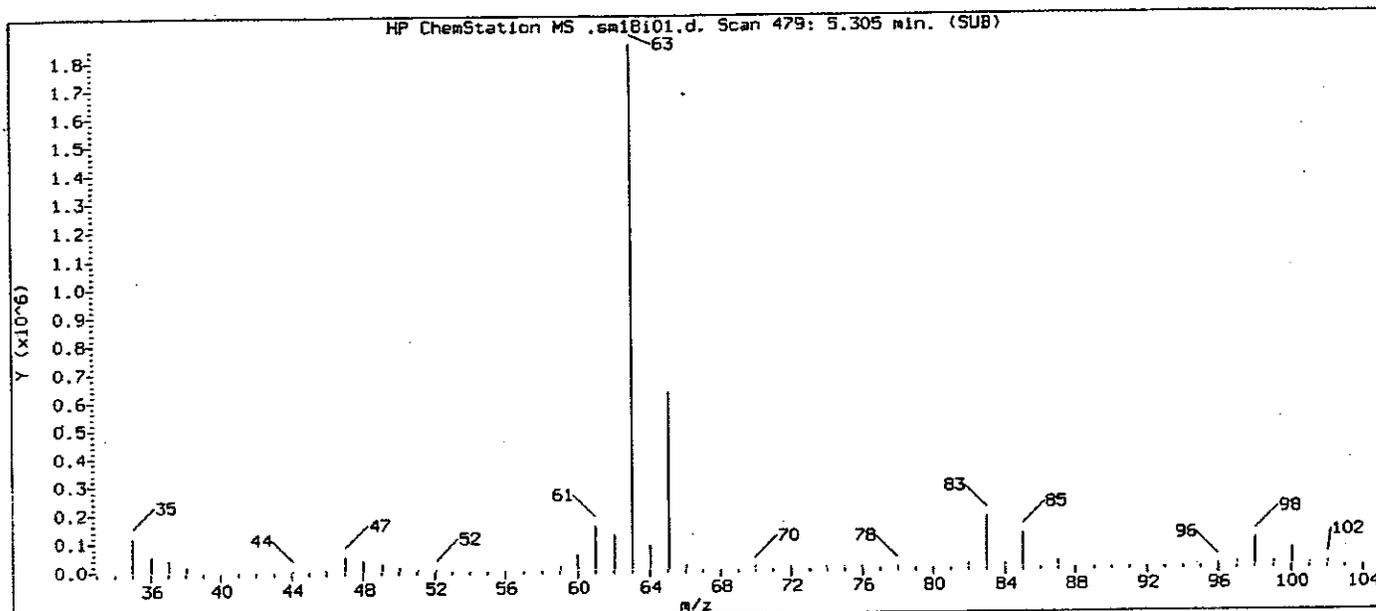
Compound Number : 22
 Compound Name : 1,1-Dichloroethane
 Scan Number : 479
 Retention Time (minutes): 5.305
 Quant Ion : 63
 Area (flag) : 7057719 M
 Concentration (ug/L) : 23.4650
 Integration start scan : 463 Integration stop scan: 493
 Y at integration start : 400 Y at integration end: 400

Reason for manual integration (circle one): missed peak improper integration

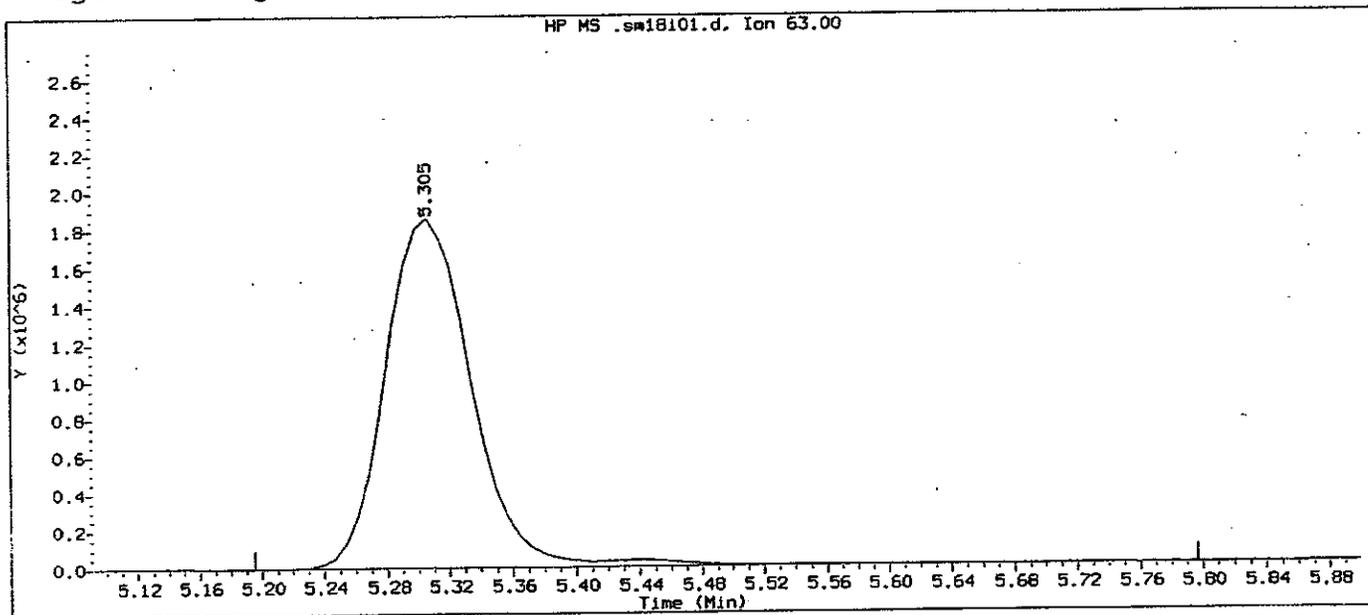
Analyst responsible for change: W. Morrison

GC/MS audit/management approval: [Signature] 3/11/09 WAT89: 8148

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sml18i01.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 17:27
Date, time and analyst ID of latest file update: 18-Mar-2009 17:27 lcm01518

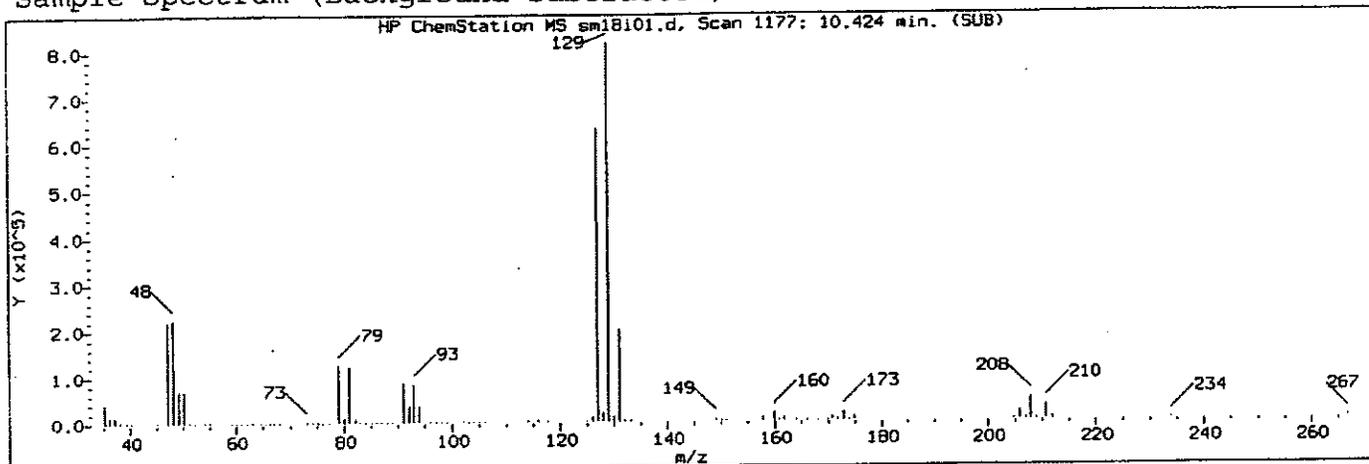
Sample Name: VSTD025

Lab Sample ID: VSTD025

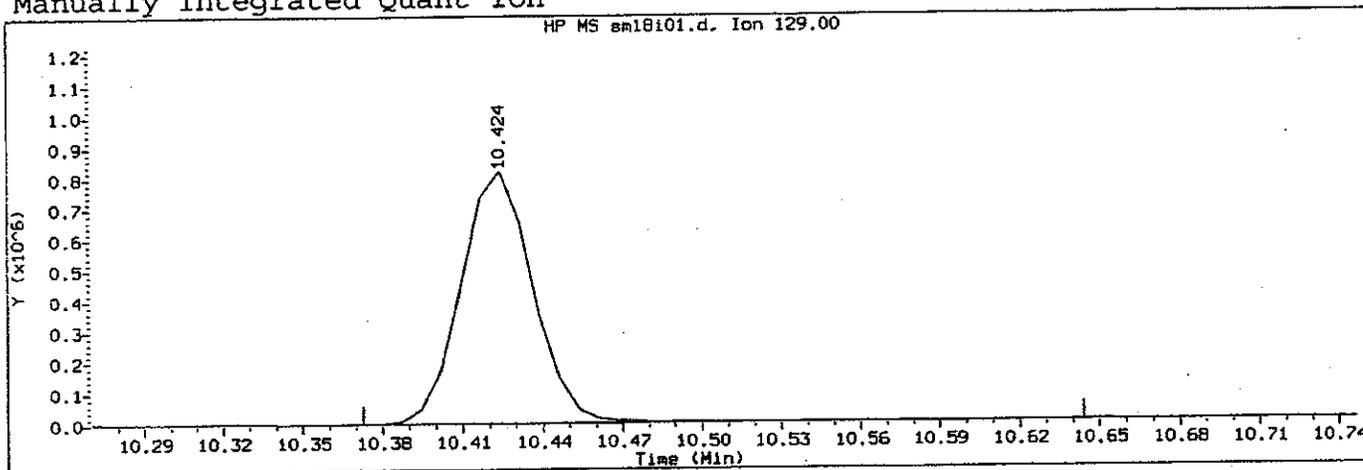
Compound Number : 22
Compound Name : 1,1-Dichloroethane
Scan Number : 479
Retention Time (minutes) : 5.305
Quant Ion : 63
Area : 7223892
Concentration (ug/L) : 25.0000
Integration start scan : 463 Integration stop scan: 545
Y at integration start : 400 Y at integration end: 400

WAT189 0149

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i01.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:37
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:37 lcm01518

Sample Name: VSTD025

Lab Sample ID: VSTD025

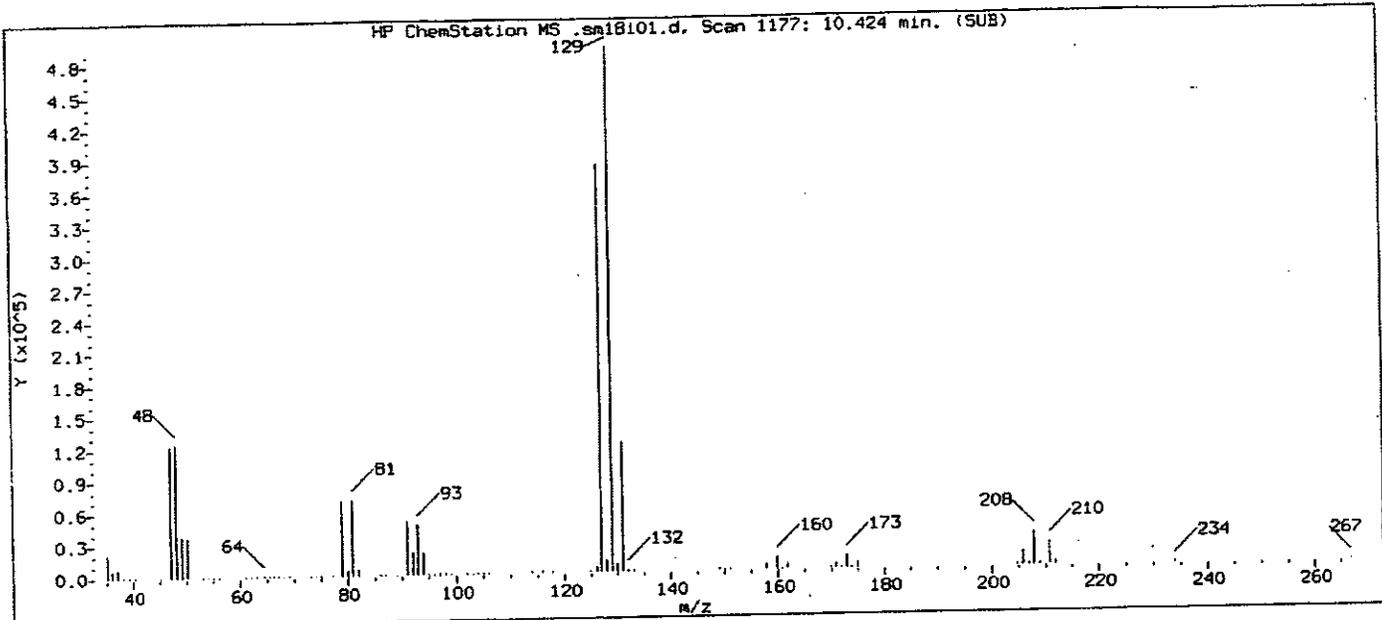
Compound Number : 61
 Compound Name : Dibromochloromethane
 Scan Number : 1177
 Retention Time (minutes): 10.424
 Quant Ion : 129
 Area (flag) : 1522629 M
 Concentration (ug/L) : 25.0090
 Integration start scan : 1169 Integration stop scan: 1206
 Y at integration start : 452 Y at integration end: 452

Reason for manual integration (circle one): missed peak improper integration

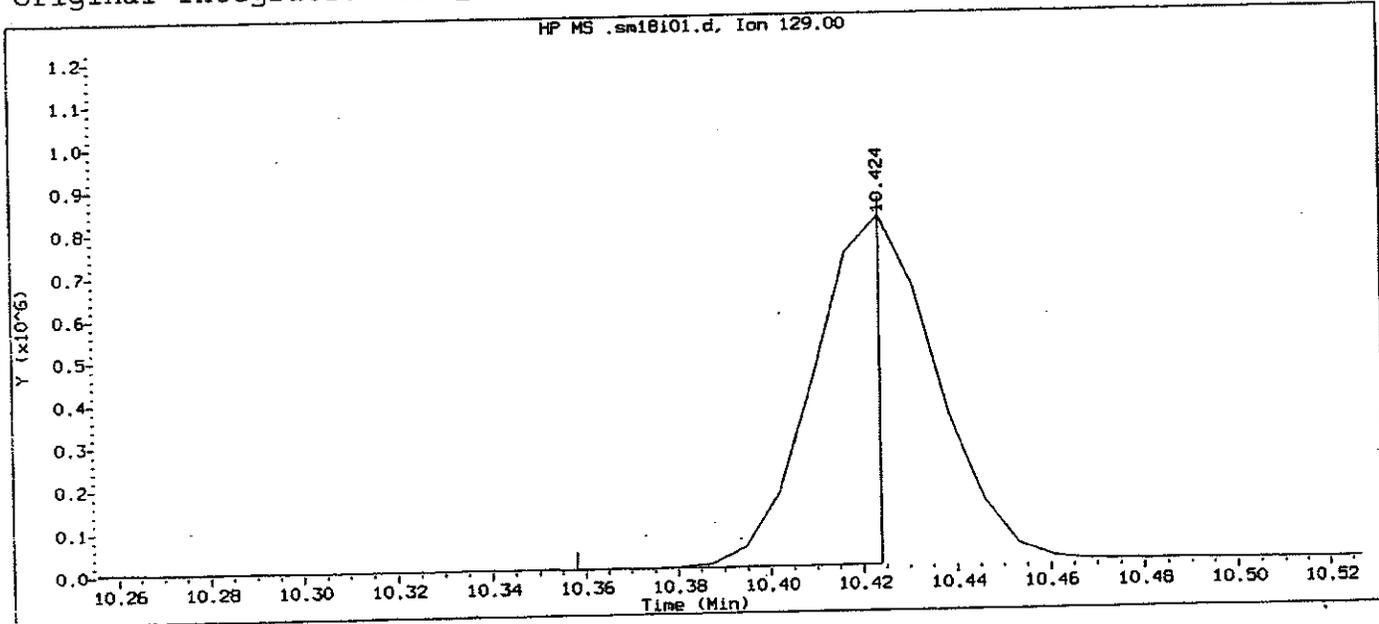
Analyst responsible for change: LCM01518

GC/MS audit/management approval: LCM01518 3/19/09 NAT89 8158

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18101.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 17:27
Date, time and analyst ID of latest file update: 18-Mar-2009 17:27 lcm01518

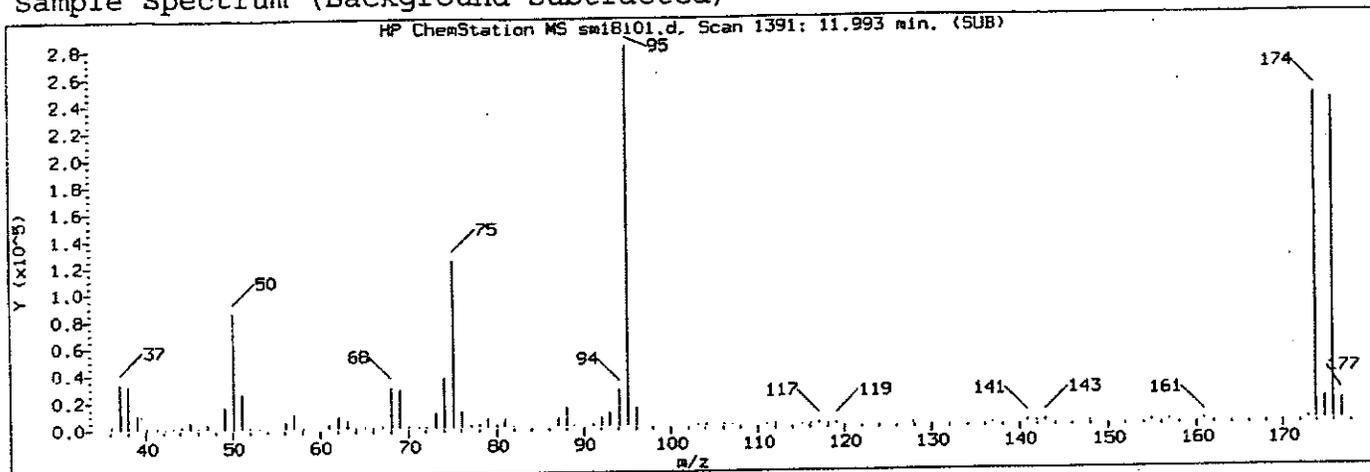
Sample Name: VSTD025

Lab Sample ID: VSTD025

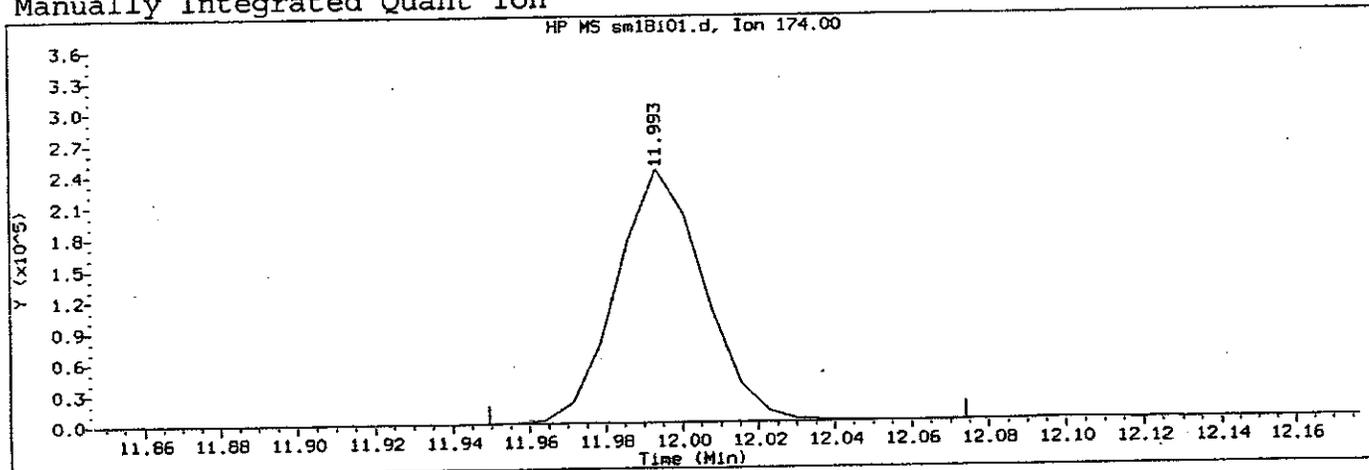
Compound Number : 61
Compound Name : Dibromochloromethane
Scan Number : 1177
Retention Time (minutes) : 10.424
Quant Ion : 129
Area : 795477
Concentration (ug/L) : 25.0000
Integration start scan : 1167 Integration stop scan: 1176
Y at integration start : 684 Y at integration end: 684

WAT05 8151

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18101.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:37
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:37 lcm01518

Sample Name: VSTD025

Lab Sample ID: VSTD025

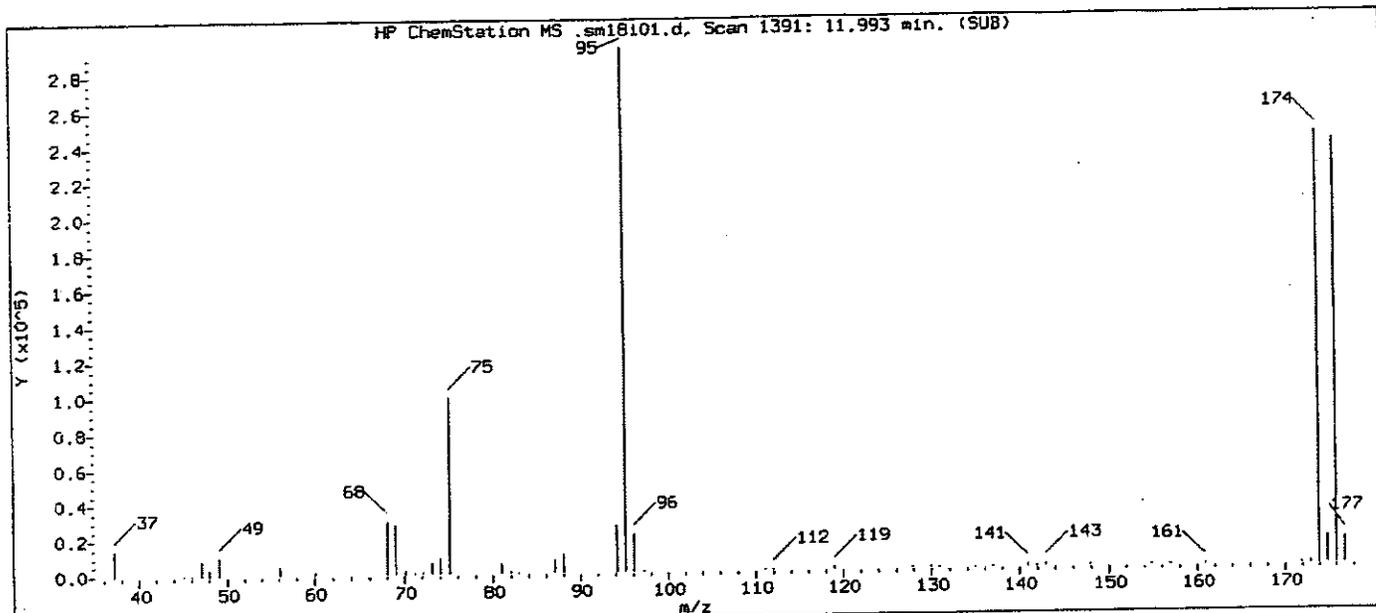
Compound Number : 73
 Compound Name : 4-Bromofluorobenzene
 Scan Number : 1391
 Retention Time (minutes): 11.993
 Quant Ion : 174
 Area (flag) : 388118 M
 Concentration (ug/L) : 5.0367
 Integration start scan : 1384 Integration stop scan: 1401
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

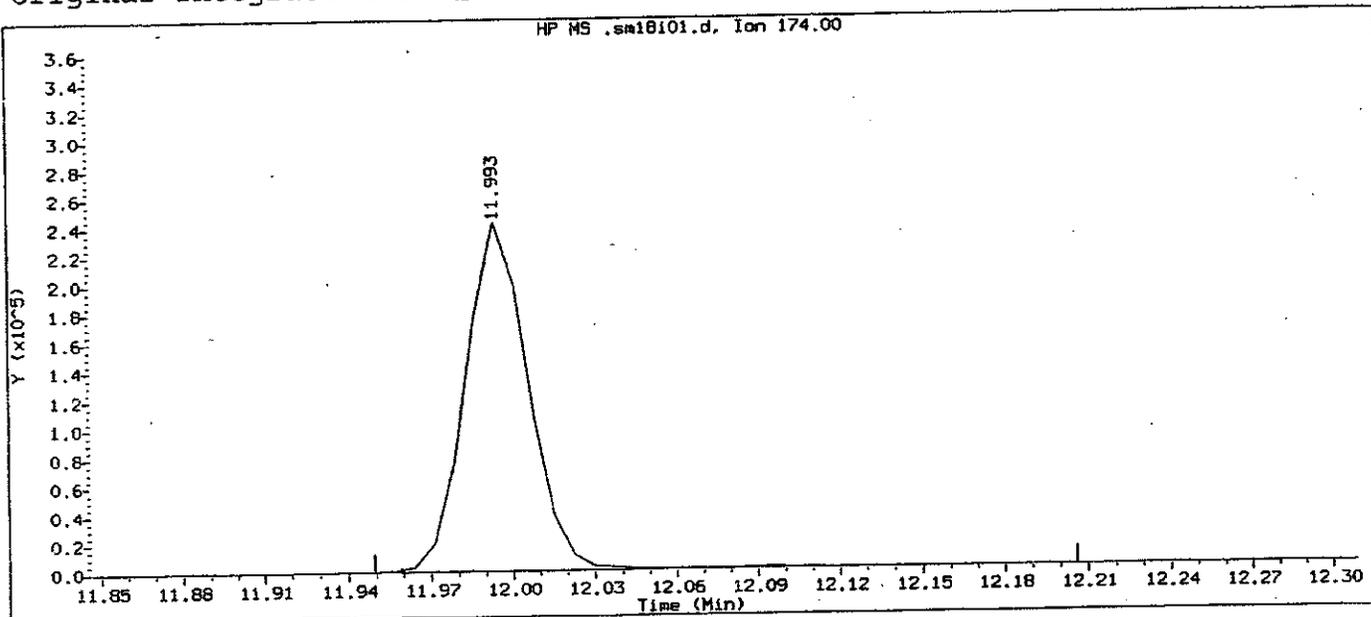
Analyst responsible for change: WMM 3/19/09

GC/MS audit/management approval: WMM 3/19/09 WATER 8152

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i01.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:28 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:27
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:27 lcm01518

Sample Name: VSTD025

Lab Sample ID: VSTD025

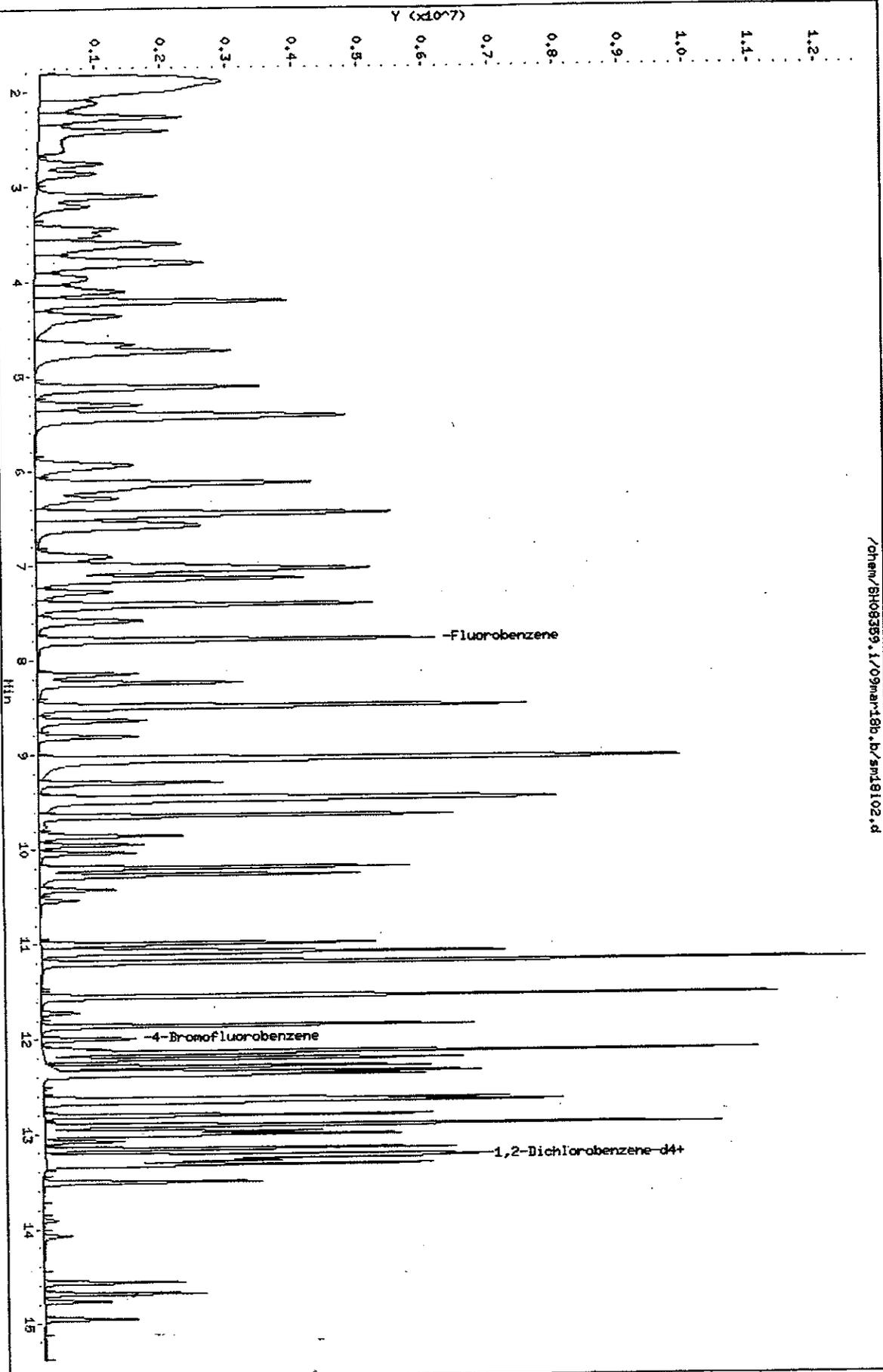
Compound Number : 73
 Compound Name : 4-Bromofluorobenzene
 Scan Number : 1391
 Retention Time (minutes) : 11.993
 Quant Ion : 174
 Area : 390448
 Concentration (ug/L) : 5.0000
 Integration start scan : 1384 Integration stop scan: 1419
 Y at integration start : 0 Y at integration end: 0

WATER 0153

Data File: /chem/SH08359.1/09mar18b.b/sml8102.d
Date: 18-Mar-2009 16:55
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1111
Purge Volume: 25.0
Column Phase: DB-624

Instrument: SH08359.1
Operator: LCH01518
Column diameter: 0.25

/chem/SH08359.1/09mar18b.b/sml8102.d



UMCOR
2/18/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i02.d
 Injection date and time: 18-MAR-2009 16:55

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:38 lcm01518

Sample Name: VSTD010

Lab Sample ID: VSTD010

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|----------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.137 | 85 | 1500057 | 9.442 |
| 2) Chloromethane | (1) | 2.284 | 50 | 4172926 | 10.586 |
| 3) Vinyl Chloride | (1) | 2.423 | 62 | 2968142 | 10.328 |
| 4) Bromomethane | (1) | 2.768 | 94 | 1402023 | 9.970 |
| 5) Chloroethane | (1) | 2.871 | 64 | 1627447 | 9.927 |
| 6) Dichlorofluoromethane | (1) | 3.105 | 67 | 3326178 | 10.172 |
| 7) Trichlorofluoromethane | (1) | 3.208 | 101 | 1516938M | 9.769 |
| 8) Ethyl Ether | (1) | 3.450 | 59 | 710372 | 10.066 |
| 9) Acrolein | (1) | 3.611 | 56 | 5587557 | 507.074 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 1106824 | 10.096 |
| 11) Freon 113 | (1) | 3.831 | 101 | 1115821 | 10.119 |
| 12) Acetone | (1) | 3.795 | 58 | 425519 | 97.642 |
| 13) Methyl Iodide | (1) | 3.985 | 142 | 2191082 | 10.340 |
| 14) Carbon Disulfide | (1) | 4.103 | 76 | 3964957 | 10.338 |
| 15) Allyl Chloride | (1) | 4.213 | 39 | 3357855 | 10.540 |
| 17) Methylene Chloride | (1) | 4.367 | 84 | 970314 | 10.045 |
| 18) t-Butyl Alcohol | (1) | 4.484 | 59 | 644472 | 191.437 |
| 19) Acrylonitrile | (1) | 4.667 | 53 | 2495093 | 121.563 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741 | 96 | 1292390 | 10.249 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.755 | 73 | 1310456 | 9.924 |
| 22) 1,1-Dichloroethane | (1) | 5.305 | 63 | 3126221 | 10.614 |
| 24) di-Isopropyl Ether | (1) | 5.423 | 87 | 679510 | 10.015 |
| 25) Ethyl t-Butyl Ether | (1) | 5.943 | 59 | 3274504 | 9.939 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 1198776 | 10.216 |
| 27) 2,2-Dichloropropane | (1) | 6.149 | 77 | 1341846 | 10.291 |
| 28) 2-Butanone | (1) | 6.141 | 43 | 3174705 | 101.563 |
| 29) Propionitrile | (1) | 6.215 | 54 | 1360481 | 191.304 |
| 30) Methyl Acrylate | (1) | 6.295 | 55 | 2533021 | 50.081 |
| 31) Methacrylonitrile | (1) | 6.449 | 67 | 1811085 | 100.635 |
| 32) Bromochloromethane | (1) | 6.471 | 128 | 405374 | 10.194 |
| 33) Tetrahydrofuran | (1) | 6.559 | 71 | 545808 | 139.926 |
| 34) Chloroform | (1) | 6.596 | 83 | 1748860 | 10.101 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904 | 97 | 1339223 | 10.236 |
| 36) 1-Chlorobutane | (1) | 7.051 | 49 | 149833 | 10.148 |

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i02.d
 Injection date and time: 18-MAR-2009 16:55

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:38 lcm01518

Sample Name: VSTD010

Lab Sample ID: VSTD010

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.146 | 117 | 1080702 | 10.103 |
| 38) 1,1-Dichloropropene | (1) | 7.139 | 75 | 1675489 | 10.254 |
| 39) Benzene | (1) | 7.417 | 78 | 4329062 | 11.281 |
| 40) 1,2-Dichloroethane | (1) | 7.432 | 62 | 980566 | 9.928 |
| 41) t-Amyl Methyl Ether | (1) | 7.586 | 73 | 1678115 | 9.999 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1849293 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 1200999 | 10.263 |
| 44) 1,2-Dichloropropane | (1) | 8.495 | 63 | 1468002 | 10.134 |
| 45) Methyl Methacrylate | (1) | 8.635 | 69 | 302017 | 9.902 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 375304 | 10.073 |
| 47) Bromodichloromethane | (1) | 8.803 | 83 | 995980 | 10.034 |
| 48) 2-Nitropropane | (1) | 9.045 | 46 | 547207 | 1023.867 |
| 49) Chloroacetonitrile | (1) | 9.075 | 75 | 849959 | 482.427 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295 | 75 | 1303111 | 10.135 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.449 | 58 | 2089023 | 104.177 |
| 52) 1,1-Dichloropropanone | (1) | 9.478 | 83 | 580400 | 958.877 |
| 53) Toluene | (1) | 9.647 | 92 | 2614098 | 10.850 |
| 55) trans-1,3-Dichloropropene | (1) | 9.852 | 75 | 896513 | 10.040 |
| 56) Ethyl Methacrylate | (1) | 9.947 | 69 | 619195 | 9.925 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035 | 83 | 379429 | 9.955 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 1128323 | 10.254 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 807596 | 9.983 |
| 60) 2-Hexanone | (1) | 10.277 | 58 | 1881953 | 103.829 |
| 61) Dibromochloromethane | (1) | 10.424 | 129 | 595989 | 9.996 |
| 62) 1,2-Dibromoethane | (1) | 10.534 | 107 | 447587 | 10.028 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 2291078 | 10.549 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 748267 | 9.991 |
| 66) Ethylbenzene | (1) | 11.091 | 106 | 1417710 | 10.210 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 3518554 | 23.116 |
| 68) o-Xylene | (1) | 11.546 | 106 | 1603112 | 10.211 |
| 69) Styrene | (1) | 11.553 | 104 | 2453623 | 10.794 |
| 71) Bromoform | (1) | 11.715 | 173 | 288348 | 9.837 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 994867 | 10.007 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 455063 | 9.812 |

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i02.d
 Injection date and time: 18-MAR-2009 16:55

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:38 lcm01518

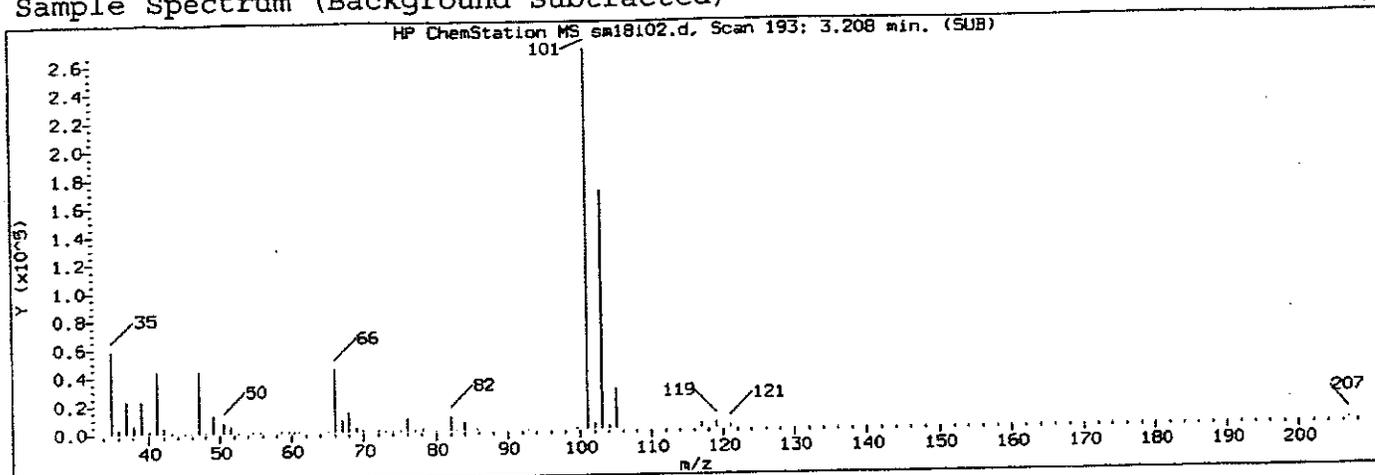
Sample Name: VSTD010

Lab Sample ID: VSTD010

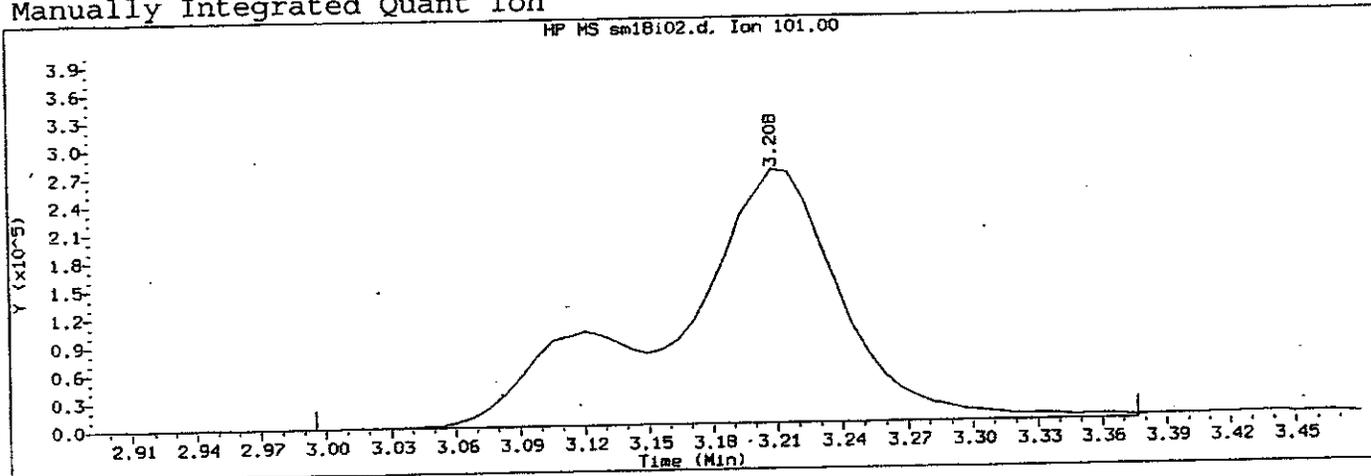
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 75) Bromobenzene | (1) | 12.133 | 156 | 837000 | 9.875 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140 | 110 | 99151 | 9.696 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.147 | 53 | 1700250 | 104.155 |
| 78) n-Propylbenzene | (1) | 12.206 | 120 | 1049199 | 10.011 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 943822 | 10.064 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.353 | 105 | 3100643 | 11.426 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 960499 | 10.031 |
| 82) tert-Butylbenzene | (1) | 12.631 | 134 | 729369 | 9.931 |
| 83) Pentachloroethane | (1) | 12.653 | 167 | 473885 | 9.680 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.668 | 105 | 3071894 | 11.354 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 758817 | 9.886 |
| 86) p-Isopropyltoluene | (1) | 12.917 | 119 | 3004210 | 11.118 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 1611277 | 9.779 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 1554121 | 9.905 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 1907944 | 10.491 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 1178500 | 9.748 |
| 92) Hexachloroethane | (1) | 13.504 | 201 | 546238 | 9.909 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907 | 157 | 50369 | 9.105 |
| 94) Nitrobenzene | (1) | 14.069 | 77 | 189722 | 173.787 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.560 | 180 | 632448 | 9.553 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 465111 | 9.835 |
| 97) Naphthalene | (1) | 14.765 | 128 | 727308 | 9.567 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949 | 180 | 451446 | 9.606 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 374528 | 4.963 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 326427 | 4.695 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i02.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:55 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:38
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:38 lcm01518

Sample Name: VSTD010 Lab Sample ID: VSTD010

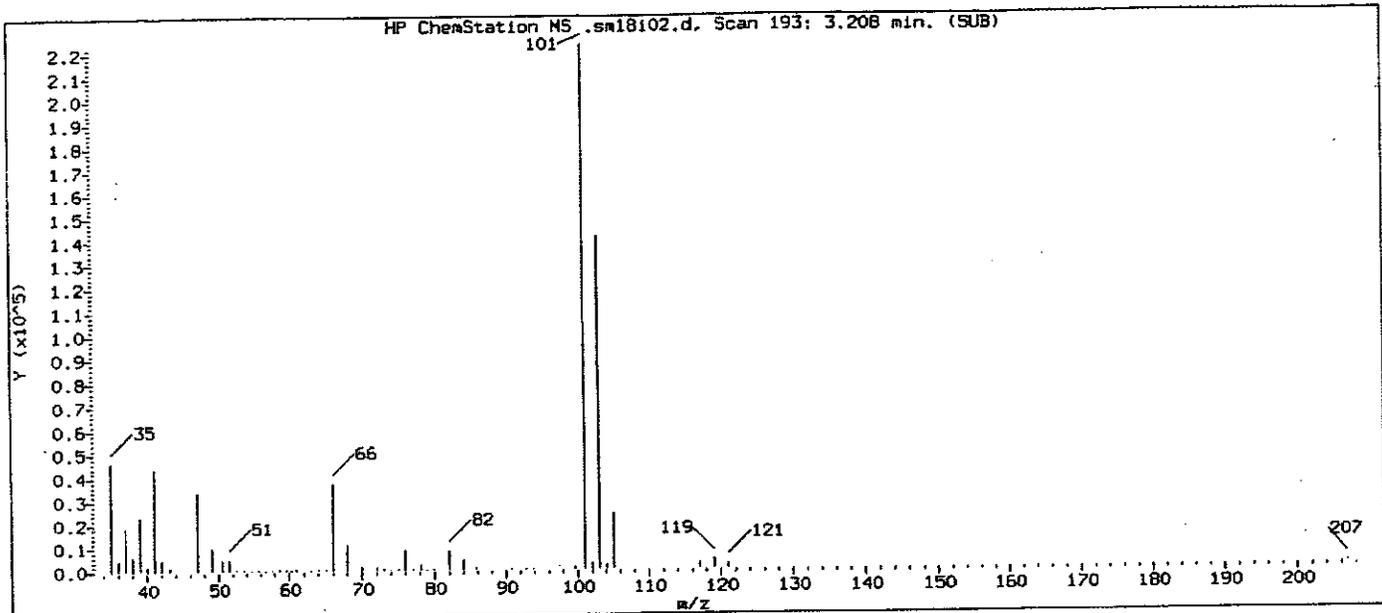
Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 193
 Retention Time (minutes) : 3.208
 Quant Ion : 101
 Area (flag) : 1516938 M
 Concentration (ug/L) : 9.7693
 Integration start scan : 163 Integration stop scan: 215
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

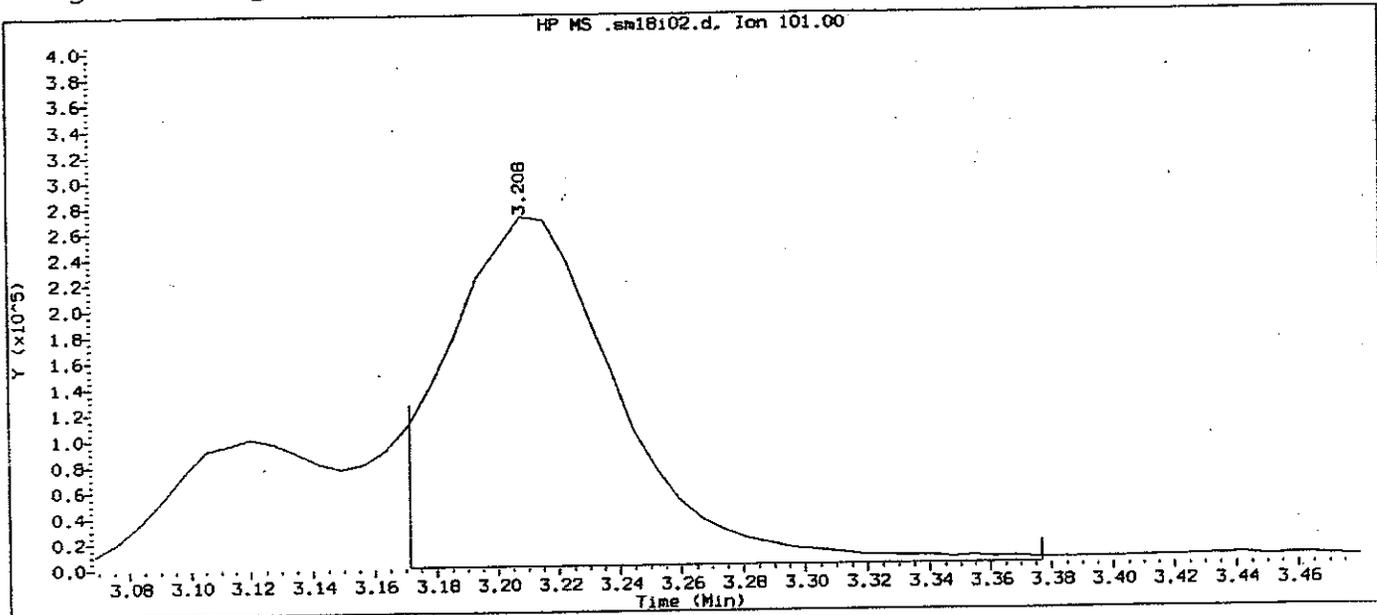
Analyst responsible for change: Ammon 3/19/09

GC/MS audit/management approval: APL/n 3/19/09 WAT89 0158

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18102.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 16:55 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:29
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:29 lcm01518

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 193
 Retention Time (minutes): 3.208
 Quant Ion : 101
 Area : 1046963
 Concentration (ug/L) : 0.9473
 Integration start scan : 187 Integration stop scan: 215
 Y at integration start : 0 Y at integration end: 0

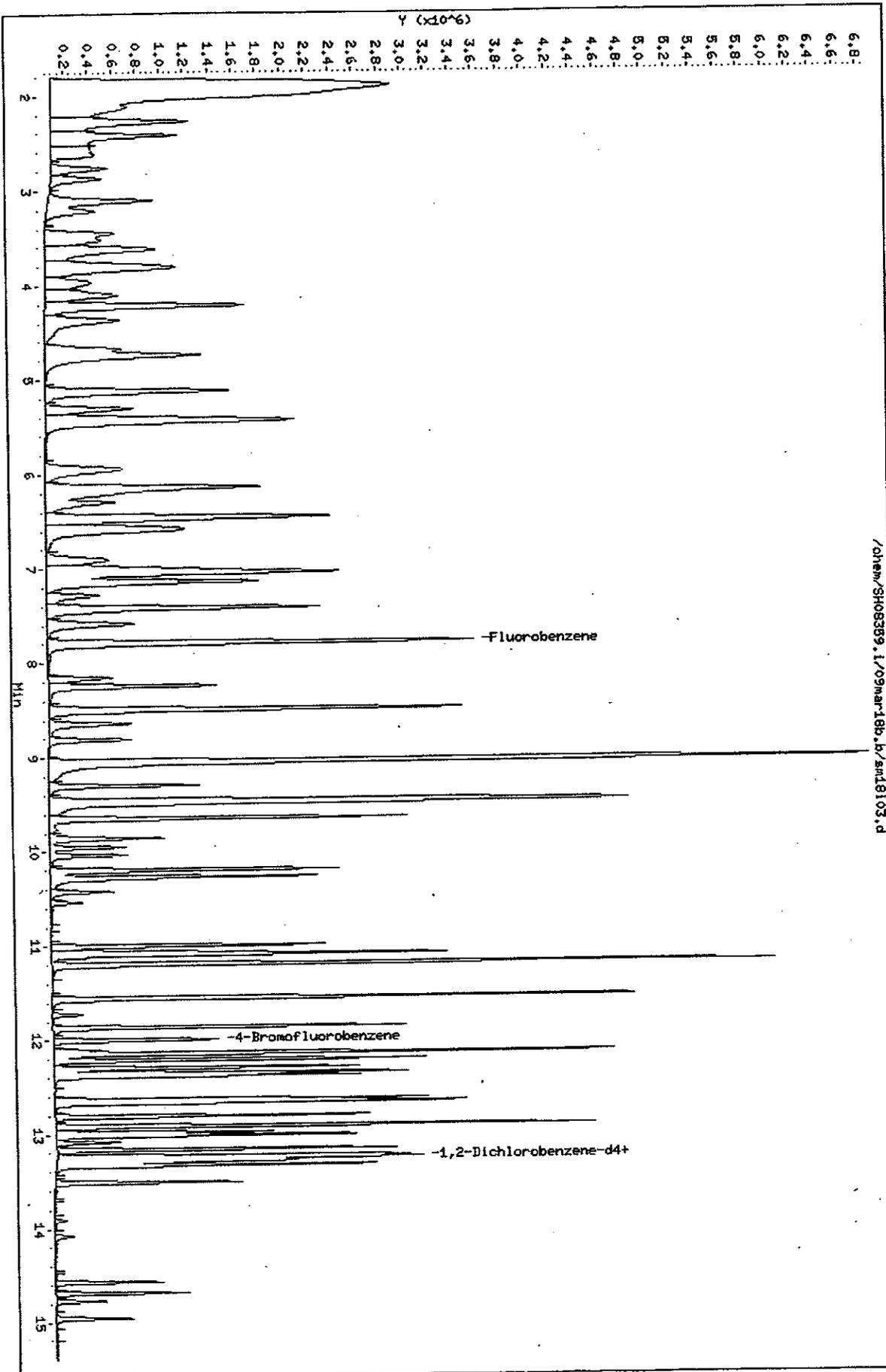
WAT09 9159

Data File: /chem/SH08359.1/09mar18b.b/sml8103.d
Date: 18-MAR-2009 17:24
Client ID: VSTD008
Sample Info: VSTD008;VSTD008;1;1;
Purge Volume: 25.0
Column Phase: DB-624

Instrument: SH08359.1
Operator: LCH01B18
Column diameter: 0.25

*Minor
2/28/09*

Page 1
WATER



Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sml8i03.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:21 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:47 lcm01518

Sample Name: VSTD005

Lab Sample ID: VSTD005

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|----------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.137 | 85 | 720268 | 4.927 |
| 2) Chloromethane | (1) | 2.284 | 50 | 1962535 | 5.242 |
| 3) Vinyl Chloride | (1) | 2.423 | 62 | 1389563 | 5.142 |
| 4) Bromomethane | (1) | 2.768 | 94 | 653875 | 5.011 |
| 5) Chloroethane | (1) | 2.878 | 64 | 762899 | 5.014 |
| 6) Dichlorofluoromethane | (1) | 3.105 | 67 | 1539487 | 5.053 |
| 7) Trichlorofluoromethane | (1) | 3.215 | 101 | 727777M | 5.038 |
| 8) Ethyl Ether | (1) | 3.450 | 59 | 331467 | 5.045 |
| 9) Acrolein | (1) | 3.619 | 56 | 2450035 | 243.161 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 498791 | 4.939 |
| 11) Freon 113 | (1) | 3.839 | 101 | 518968 | 5.051 |
| 12) Acetone | (1) | 3.795 | 58 | 185821 | 47.262 |
| 13) Methyl Iodide | (1) | 3.971 | 142 | 983481 | 5.005 |
| 14) Carbon Disulfide | (1) | 4.103 | 76 | 1808916 | 5.059 |
| 15) Allyl Chloride | (1) | 4.213 | 39 | 1532229 | 5.124 |
| 17) Methylene Chloride | (1) | 4.367 | 84 | 444461 | 4.976 |
| 18) t-Butyl Alcohol | (1) | 4.491 | 59 | 273023 | 91.302 |
| 19) Acrylonitrile | (1) | 4.675 | 53 | 1105147 | 59.460 |
| 20) trans-1,2-Dichloroethene | (1) | 4.748 | 96 | 577156 | 4.959 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.770 | 73 | 573156 | 4.784 |
| 22) 1,1-Dichloroethane | (1) | 5.305 | 63 | 1356413M | 4.979 |
| 24) di-Isopropyl Ether | (1) | 5.423 | 87 | 299005 | 4.834 |
| 25) Ethyl t-Butyl Ether | (1) | 5.943 | 59 | 1422664 | 4.767 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 532582 | 4.931 |
| 27) 2,2-Dichloropropane | (1) | 6.149 | 77 | 595397 | 4.951 |
| 28) 2-Butanone | (1) | 6.141 | 43 | 1329323 | 47.177 |
| 29) Propionitrile | (1) | 6.215 | 54 | 585870 | 92.302 |
| 30) Methyl Acrylate | (1) | 6.303 | 55 | 1164362 | 24.891 |
| 31) Methacrylonitrile | (1) | 6.449 | 67 | 788076 | 48.129 |
| 32) Bromochloromethane | (1) | 6.471 | 128 | 186863 | 5.046 |
| 33) Tetrahydrofuran | (1) | 6.559 | 71 | 239091 | 67.371 |
| 34) Chloroform | (1) | 6.596 | 83 | 784896 | 4.927 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904 | 97 | 598434 | 4.956 |
| 36) 1-Chlorobutane | (1) | 7.051 | 49 | 72035 | 5.173 |

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i03.d
 Injection date and time: 18-MAR-2009 17:21

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:47 lcm01518

Sample Name: VSTD005

Lab Sample ID: VSTD005

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.153 | 117 | 487981 | 4.947 |
| 38) 1,1-Dichloropropene | (1) | 7.139 | 75 | 732048 | 4.888 |
| 39) Benzene | (1) | 7.425 | 78 | 1925681 | 5.268 |
| 40) 1,2-Dichloroethane | (1) | 7.432 | 62 | 435001 | 4.832 |
| 41) t-Amyl Methyl Ether | (1) | 7.586 | 73 | 732458 | 4.802 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1714085 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 542702 | 5.002 |
| 44) 1,2-Dichloropropane | (1) | 8.495 | 63 | 655333 | 4.920 |
| 45) Methyl Methacrylate | (1) | 8.642 | 69 | 127597 | 4.665 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 167824 | 4.906 |
| 47) Bromodichloromethane | (1) | 8.803 | 83 | 444724 | 4.888 |
| 48) 2-Nitropropane | (1) | 9.045 | 46 | 251832 | 513.792 |
| 49) Chloroacetonitrile | (1) | 9.075 | 75 | 369209 | 233.534 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295 | 75 | 571246 | 4.860 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.456 | 58 | 902553 | 49.030 |
| 52) 1,1-Dichloropropanone | (1) | 9.478 | 83 | 261078 | 476.353 |
| 53) Toluene | (1) | 9.654 | 92 | 1151818 | 5.104 |
| 55) trans-1,3-Dichloropropene | (1) | 9.859 | 75 | 394218 | 4.840 |
| 56) Ethyl Methacrylate | (1) | 9.947 | 69 | 258873 | 4.639 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035 | 83 | 171998 | 4.912 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 496873 | 4.914 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 352988 | 4.801 |
| 60) 2-Hexanone | (1) | 10.277 | 58 | 808218 | 48.722 |
| 61) Dibromochloromethane | (1) | 10.424 | 129 | 257840 | 4.772 |
| 62) 1,2-Dibromoethane | (1) | 10.534 | 107 | 198682 | 4.867 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 1018540 | 5.039 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 330481 | 4.838 |
| 66) Ethylbenzene | (1) | 11.091 | 106 | 616326 | 4.857 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 1536288 | 10.576 |
| 68) o-Xylene | (1) | 11.546 | 106 | 694911 | 4.848 |
| 69) Styrene | (1) | 11.553 | 104 | 1057585 | 5.013 |
| 71) Bromoform | (1) | 11.722 | 173 | 125285 | 4.734 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 441811 | 4.861 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 199936 | 4.762 |

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i03.d
 Injection date and time: 18-MAR-2009 17:21

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28

Date, time and analyst ID of latest file update: 18-Mar-2009 17:47 lcm01518

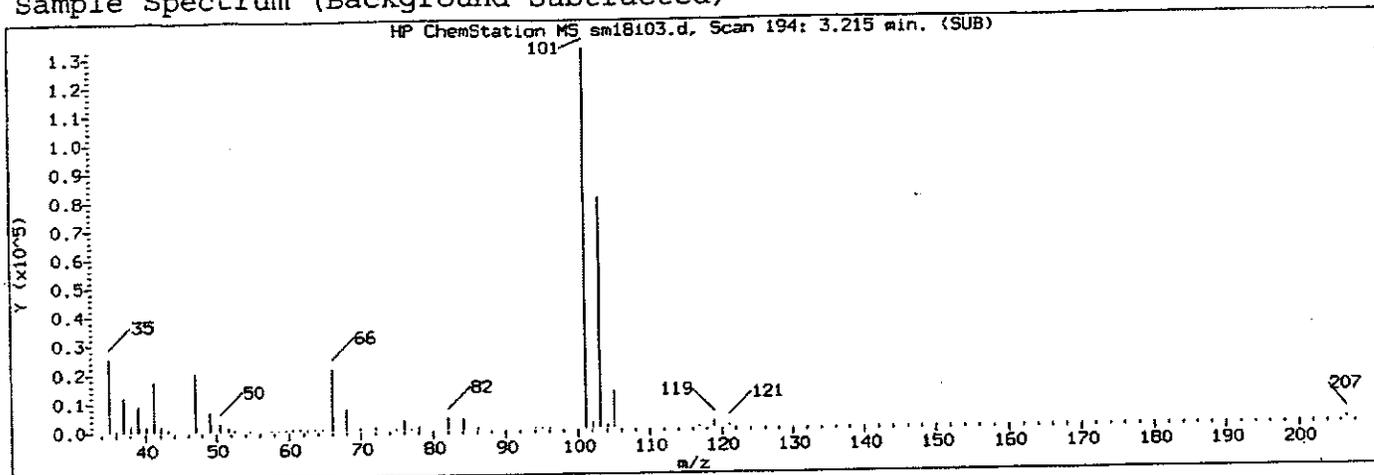
Sample Name: VSTD005

Lab Sample ID: VSTD005

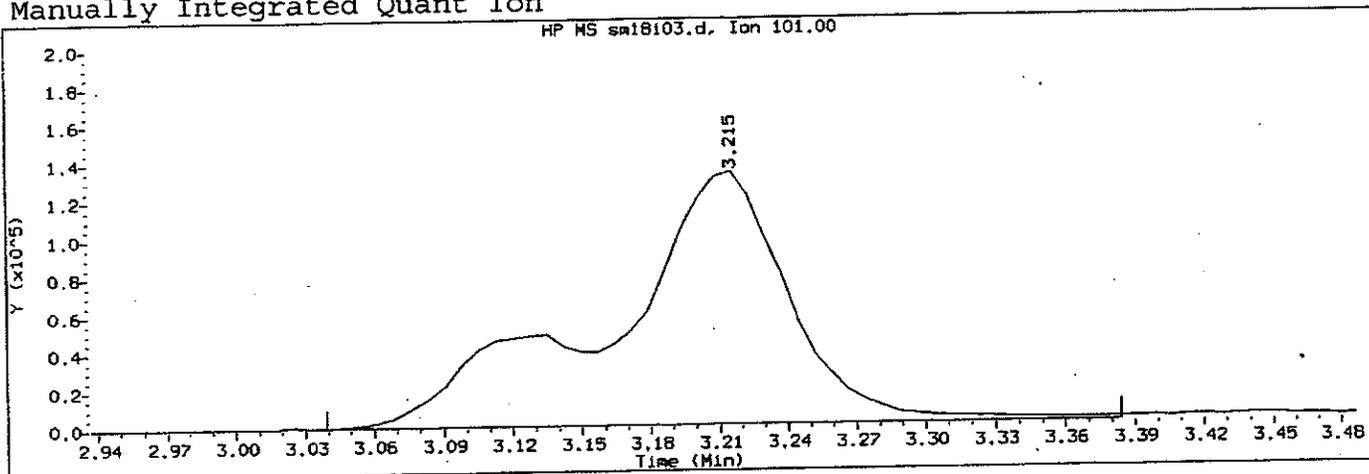
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 75) Bromobenzene | (1) | 12.133 | 156 | 365033 | 4.759 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140 | 110 | 42991 | 4.681 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.147 | 53 | 731015 | 48.863 |
| 78) n-Propylbenzene | (1) | 12.206 | 120 | 459211 | 4.815 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 416799 | 4.861 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.353 | 105 | 1352255 | 5.245 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 419118 | 4.811 |
| 82) tert-Butylbenzene | (1) | 12.631 | 134 | 317860 | 4.775 |
| 83) Pentachloroethane | (1) | 12.646 | 167 | 217727 | 4.864 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.668 | 105 | 1340957 | 5.226 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 327109 | 4.724 |
| 86) p-Isopropyltoluene | (1) | 12.917 | 119 | 1304148 | 5.136 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 696648 | 4.699 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 680984 | 4.784 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 836418 | 4.975 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 510126 | 4.693 |
| 92) Hexachloroethane | (1) | 13.511 | 201 | 255612 | 5.002 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.900 | 157 | 21692 | 4.459 |
| 94) Nitrobenzene | (1) | 14.069 | 77 | 74749 | 80.919 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567 | 180 | 270921 | 4.594 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 208829 | 4.840 |
| 97) Naphthalene | (1) | 14.773 | 128 | 304166 | 4.523 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949 | 180 | 194459 | 4.629 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 353903 | 5.040 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 306731 | 4.837 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18103.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:21 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:47
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:47 lcm01518

Sample Name: VSTD005

Lab Sample ID: VSTD005

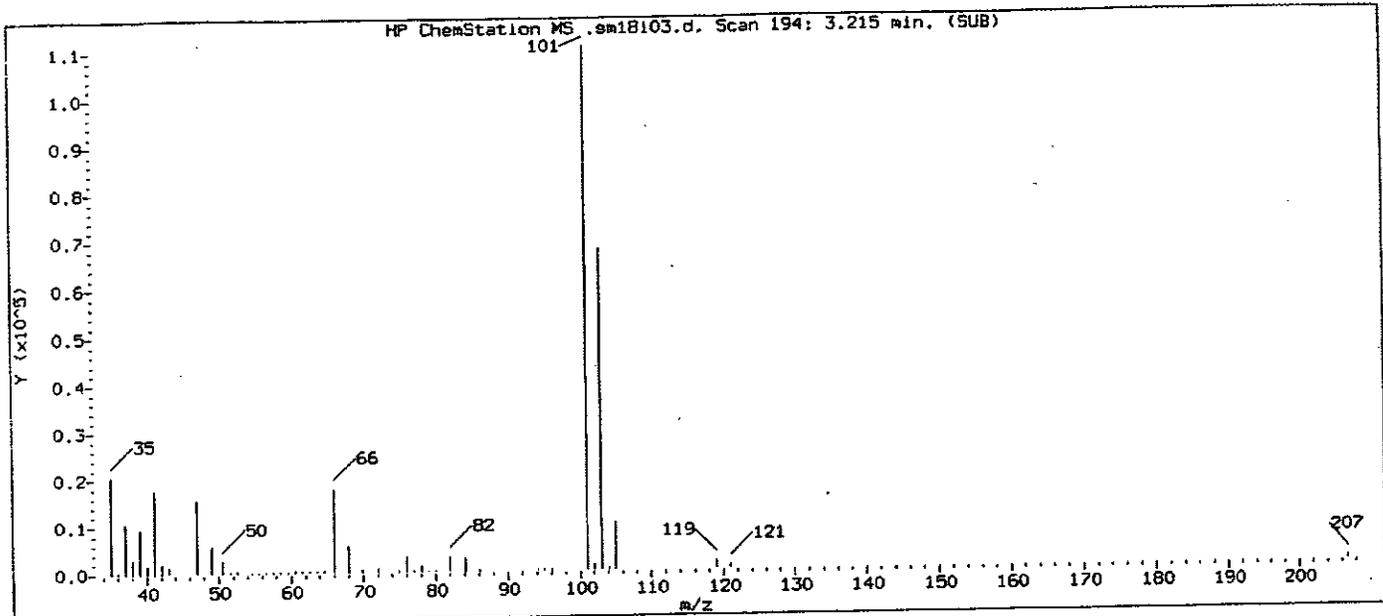
Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 194
 Retention Time (minutes) : 3.215
 Quant Ion : 101
 Area (flag) : 727777 M
 Concentration (ug/L) : 5.0377
 Integration start scan : 169 Integration stop scan: 216
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

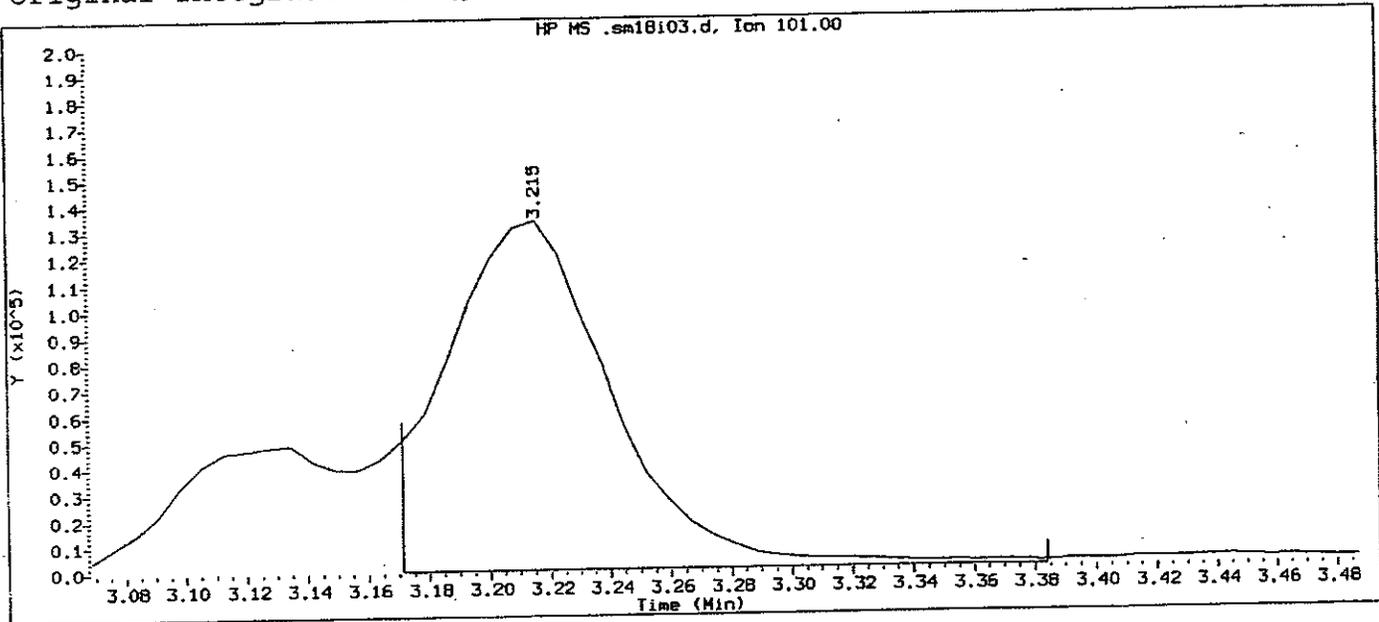
Analyst responsible for change: UNNOY 3/18/09

GC/MS audit/management approval: MM 3/19/09 MATBS 8164

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sml8i03.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:21 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 17:39
Date, time and analyst ID of latest file update: 18-Mar-2009 17:39 Automation

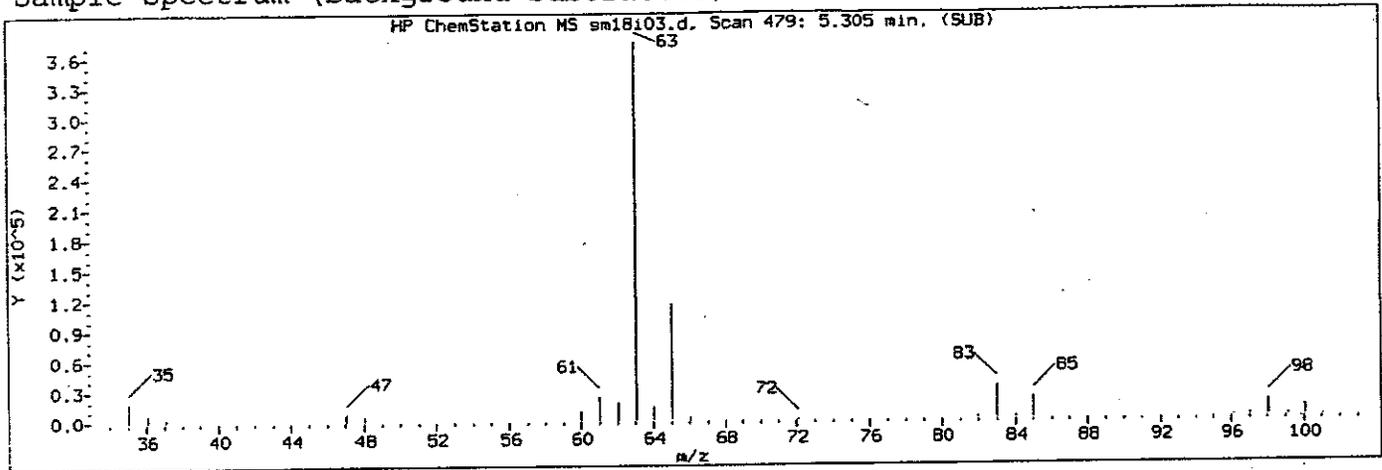
Sample Name: VSTD005

Lab Sample ID: VSTD005

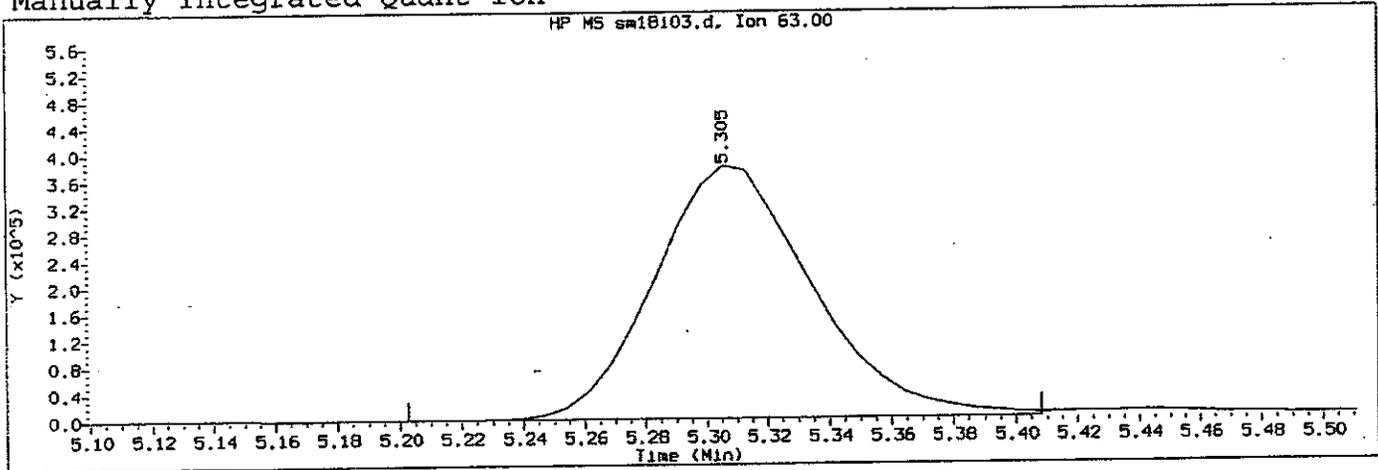
Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 194
Retention Time (minutes): 3.215
Quant Ion : 101
Area : 504271
Concentration (ug/L) : 3.8920
Integration start scan : 187 Integration stop scan: 216
Y at integration start : 0 Y at integration end: 0

WAT89 8165

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i03.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:21 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 17:47
 Date, time and analyst ID of latest file update: 18-Mar-2009 17:47 lcm01518
 Sample Name: VSTD005 Lab Sample ID: VSTD005

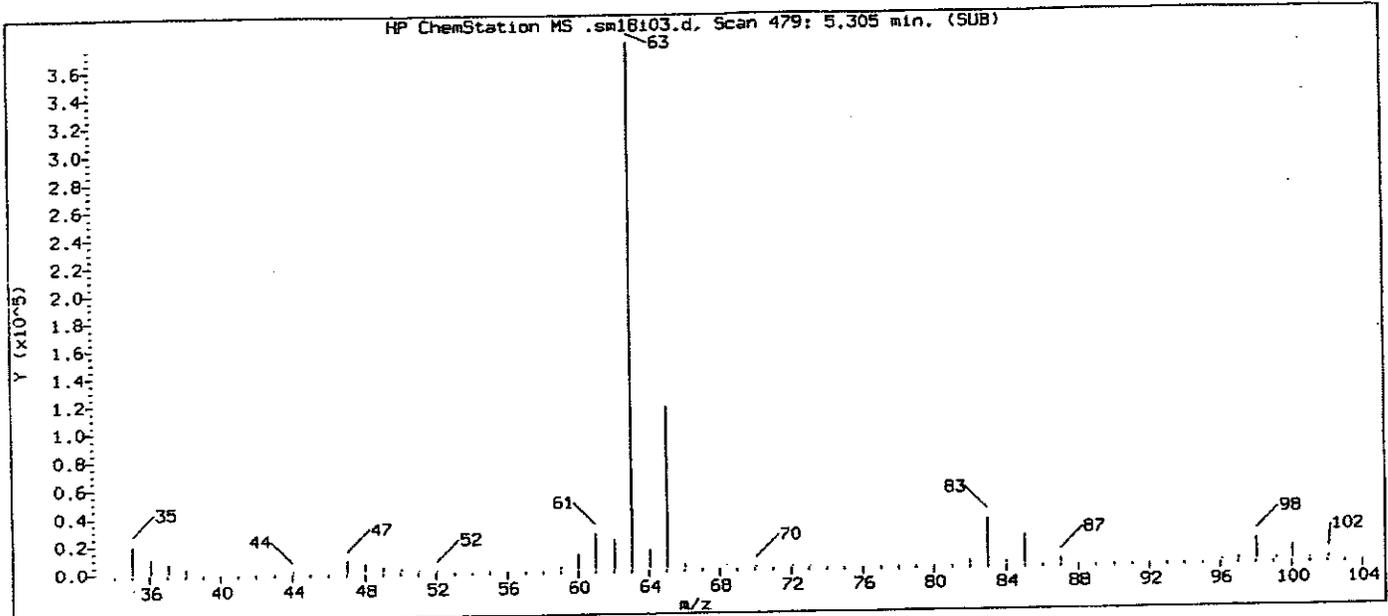
Compound Number : 22
 Compound Name : 1,1-Dichloroethane
 Scan Number : 479
 Retention Time (minutes): 5.305
 Quant Ion : 63
 Area (flag) : 1356413 M
 Concentration (ug/L) : 4.9790
 Integration start scan : 464 Integration stop scan: 492
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

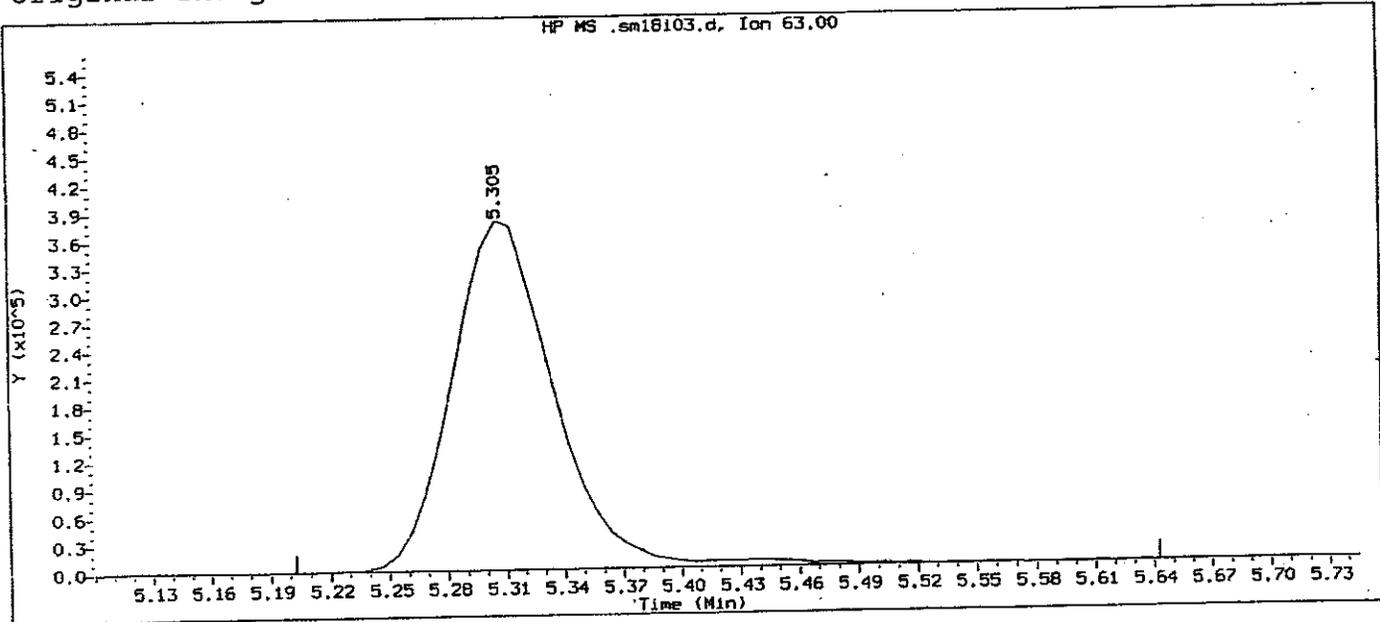
Analyst responsible for change: LCM01518 3/19/09

GC/MS audit/management approval: MM/171 3/19/09 WAT09 0166

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sml8i03.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:21 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 17:39
Date, time and analyst ID of latest file update: 18-Mar-2009 17:39 Automation

Sample Name: VSTD005

Lab Sample ID: VSTD005

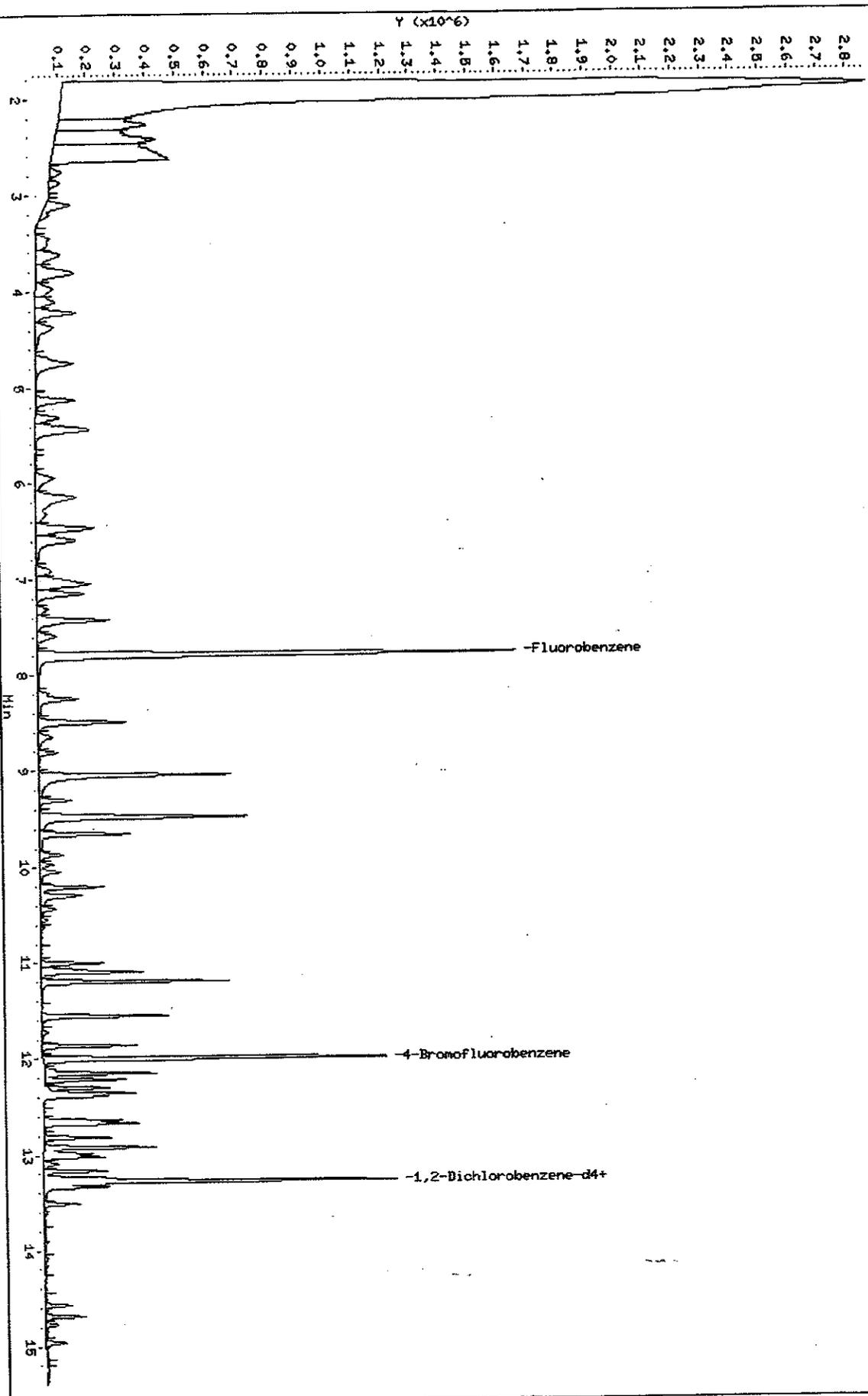
Compound Number : 22
Compound Name : 1,1-Dichloroethane
Scan Number : 479
Retention Time (minutes): 5.305
Quant Ion : 63
Area : 1393010
Concentration (ug/L) : 5.0679
Integration start scan : 464 Integration stop scan: 524
Y at integration start : 0 Y at integration end: 0

MAR 18 2009

Data File: /chem/SH08359.1/09mar18b.b/sml8104.d
 Date: 18-MAR-2009 17:48
 Client ID: VSTD0.6
 Sample Info: VSTD0.6;VSTD0.6;111;
 Purge Volume: 25.0
 Column phase: DB-624

Instrument: SH08359.1
 Operator: LOH04518
 Column diameter: 0.25

/chem/SH08359.1/09mar18b.b/sml8104.d



Limor Shilo

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Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d
 Injection date and time: 18-MAR-2009 17:48

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:24 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.145 | 85 | 59764 | 0.442 |
| 2) Chloromethane | (1) | 2.277 | 50 | 232917 | 0.603 |
| 3) Vinyl Chloride | (1) | 2.416 | 62 | 163591 | 0.592 |
| 4) Bromomethane | (1) | 2.753 | 94 | 60584 | 0.487 |
| 5) Chloroethane | (1) | 2.871 | 64 | 70299M | 0.485 |
| 6) Dichlorofluoromethane | (1) | 3.098 | 67 | 135904 | 0.473 |
| 7) Trichlorofluoromethane | (1) | 3.171 | 101 | 60263 | 0.449 |
| 8) Ethyl Ether | (1) | 3.450 | 59 | 26730 | 0.440 |
| 9) Acrolein | (1) | 3.619 | 56 | 242520 | 25.035 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 62422 | 0.600 |
| 11) Freon 113 | (1) | 3.831 | 101 | 46893 | 0.481 |
| 12) Acetone | (1) | 3.824 | 58 | 32112M | 6.255 |
| 13) Methyl Iodide | (1) | 3.985 | 142 | 92135 | 0.491 |
| 14) Carbon Disulfide | (1) | 4.110 | 76 | 171856M | 0.500 |
| 15) Allyl Chloride | (1) | 4.220 | 39 | 133153 | 0.472 |
| 17) Methylene Chloride | (1) | 4.381 | 84 | 45692 | 0.524 |
| 18) t-Butyl Alcohol | (1) | 4.506 | 59 | 35522 | 11.672 |
| 19) Acrylonitrile | (1) | 4.697 | 53 | 94705 | 5.509 |
| 20) trans-1,2-Dichloroethene | (1) | 4.748 | 96 | 57606 | 0.511 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.770 | 73 | 53340 | 0.472 |
| 22) 1,1-Dichloroethane | (1) | 5.305 | 63 | 159935 | 0.579 |
| 24) di-Isopropyl Ether | (1) | 5.415 | 87 | 27021 | 0.465 |
| 25) Ethyl t-Butyl Ether | (1) | 5.943 | 59 | 130785M | 0.466 |
| 26) cis-1,2-Dichloroethene | (1) | 6.141 | 96 | 49285 | 0.481 |
| 27) 2,2-Dichloropropane | (1) | 6.156 | 77 | 57628 | 0.499 |
| 28) 2-Butanone | (1) | 6.178 | 43 | 108955M | 4.230 |
| 29) Propionitrile | (1) | 6.244 | 54 | 58050 | 9.633 |
| 30) Methyl Acrylate | (1) | 6.317 | 55 | 77830 | 1.876 |
| 31) Methacrylonitrile | (1) | 6.457 | 67 | 67024 | 4.423 |
| 32) Bromochloromethane | (1) | 6.479 | 128 | 15069 | 0.440 |
| 33) Tetrahydrofuran | (1) | 6.581 | 71 | 23235 | 6.859 |
| 34) Chloroform | (1) | 6.603 | 83 | 83874 | 0.535 |
| 35) 1,1,1-Trichloroethane | (1) | 6.911 | 97 | 56190 | 0.488 |
| 36) 1-Chlorobutane | (1) | 7.058 | 49 | 5892M | 0.454 |

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sml8i04.d
 Injection date and time: 18-MAR-2009 17:48

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:24 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.161 | 117 | 44794 | 0.479 |
| 38) 1,1-Dichloropropene | (1) | 7.139 | 75 | 67671 | 0.477 |
| 39) Benzene | (1) | 7.425 | 78 | 215891 | 0.581 |
| 40) 1,2-Dichloroethane | (1) | 7.432 | 62 | 44027 | 0.507 |
| 41) t-Amyl Methyl Ether | (1) | 7.586 | 73 | 64034 | 0.451 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1647190 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 50514 | 0.488 |
| 44) 1,2-Dichloropropane | (1) | 8.503 | 63 | 66443 | 0.514 |
| 45) Methyl Methacrylate | (1) | 8.642 | 69 | 10435 | 0.419 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 15905 | 0.488 |
| 47) Bromodichloromethane | (1) | 8.811 | 83 | 41363 | 0.480 |
| 48) 2-Nitropropane | (1) | 9.053 | 46 | 17191 | 39.508 |
| 49) Chloroacetonitrile | (1) | 9.089 | 75 | 33796 | 22.875 |
| 50) cis-1,3-Dichloropropene | (1) | 9.302 | 75 | 54428 | 0.486 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.456 | 58 | 81406 | 4.695 |
| 52) 1,1-Dichloropropanone | (1) | 9.478 | 83 | 19645 | 39.828 |
| 53) Toluene | (1) | 9.654 | 92 | 125090 | 0.555 |
| 55) trans-1,3-Dichloropropene | (1) | 9.859 | 75 | 35767 | 0.467 |
| 56) Ethyl Methacrylate | (1) | 9.962 | 69 | 21380M | 0.420 |
| 57) 1,1,2-Trichloroethane | (1) | 10.043 | 83 | 15326M | 0.466 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 43828 | 0.462 |
| 59) 1,3-Dichloropropane | (1) | 10.211 | 76 | 32997 | 0.475 |
| 60) 2-Hexanone | (1) | 10.292 | 58 | 74676 | 4.760 |
| 61) Dibromochloromethane | (1) | 10.424 | 129 | 23957 | 0.470 |
| 62) 1,2-Dibromoethane | (1) | 10.541 | 107 | 18463 | 0.478 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 101351 | 0.516 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 28976 | 0.455 |
| 66) Ethylbenzene | (1) | 11.091 | 106 | 64390 | 0.521 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 168341 | 1.147 |
| 68) o-Xylene | (1) | 11.546 | 106 | 75685 | 0.536 |
| 69) Styrene | (1) | 11.561 | 104 | 86946 | 0.445 |
| 71) Bromoform | (1) | 11.722 | 173 | 10644 | 0.436 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 47482 | 0.532 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 19121 | 0.480 |

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d
 Injection date and time: 18-MAR-2009 17:48

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:24 lcm01518

Sample Name: VSTD0.5

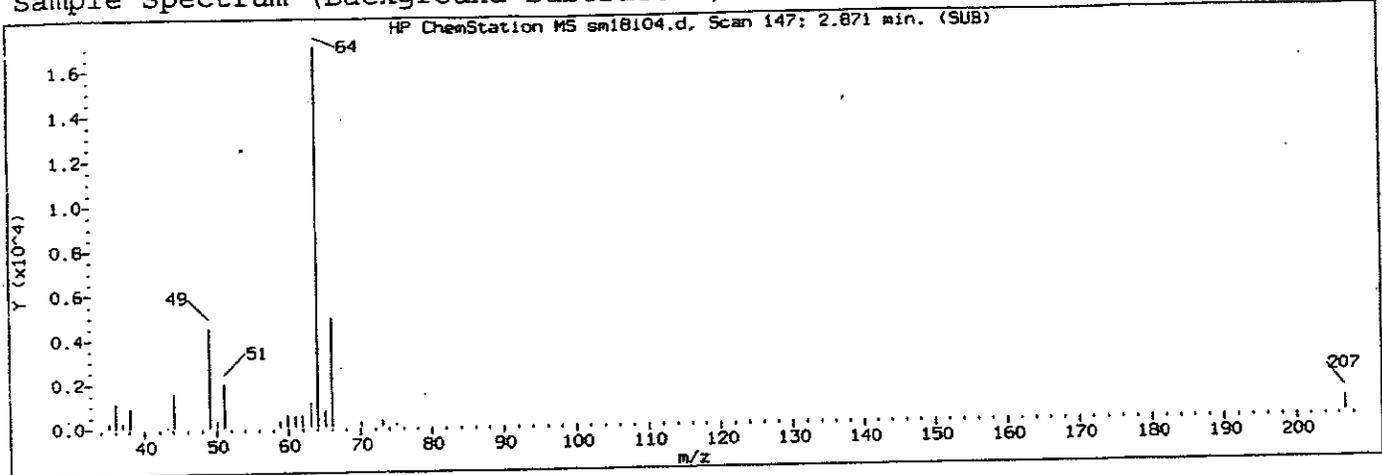
Lab Sample ID: VSTD0.5

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|--------|----------------------|
| 75) Bromobenzene | (1) | 12.133 | 156 | 33160 | 0.461 |
| 76) 1,2,3-Trichloropropane | (1) | 12.147 | 110 | 3813 | 0.447 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.147 | 53 | 65623M | 4.666 |
| 78) n-Propylbenzene | (1) | 12.213 | 120 | 40431M | 0.454 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 37377 | 0.464 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.353 | 105 | 149846 | 0.575 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 39594 | 0.479 |
| 82) tert-Butylbenzene | (1) | 12.631 | 134 | 27333 | 0.443 |
| 83) Pentachloroethane | (1) | 12.653 | 167 | 17382 | 0.424 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.668 | 105 | 145107 | 0.564 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 28108 | 0.439 |
| 86) p-Isopropyltoluene | (1) | 12.925 | 119 | 116335 | 0.482 |
| 87) 1,3-Dichlorobenzene | (1) | 12.917 | 146 | 63588 | 0.459 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 63587 | 0.473 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 76587M | 0.480 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 50041 | 0.484 |
| 92) Hexachloroethane | (1) | 13.511 | 201 | 18932 | 0.409 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907 | 157 | 1940 | 0.433 |
| 94) Nitrobenzene | (1) | 14.083 | 77 | 9568 | 10.573 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567 | 180 | 28327 | 0.500 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 27791 | 0.618 |
| 97) Naphthalene | (1) | 14.773 | 128 | 33081 | 0.509 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.956 | 180 | 21748 | 0.529 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 324727 | 4.858 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 270724 | 4.570 |

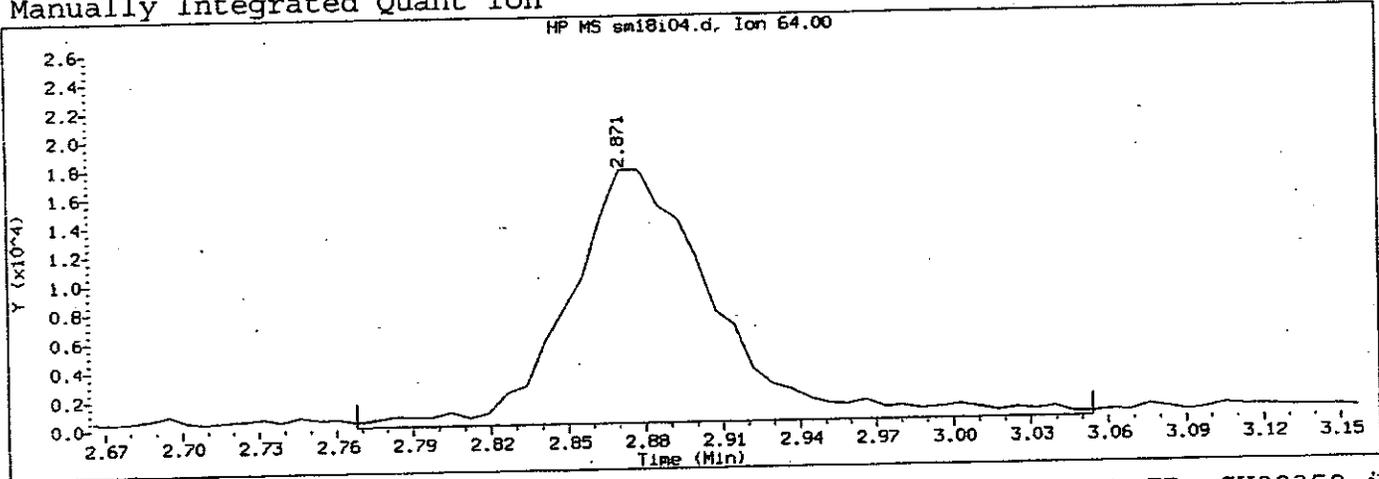
M = Compound was manually integrated.

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

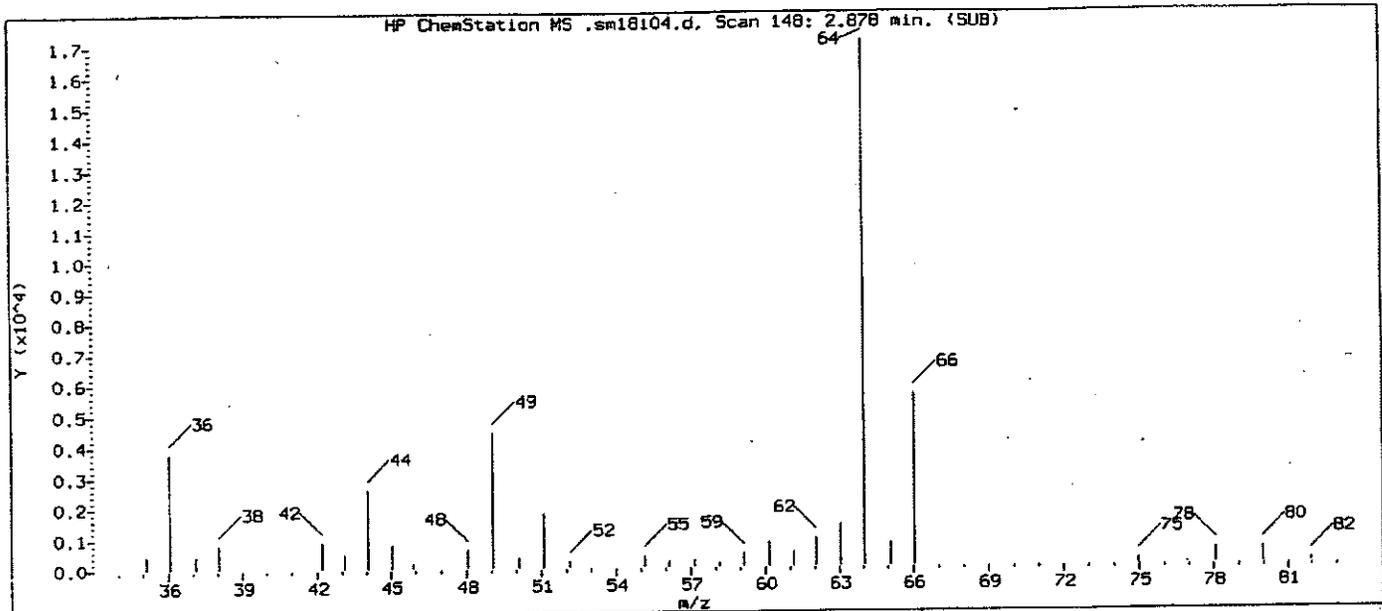
Compound Number : 5
 Compound Name : Chloroethane
 Scan Number : 147
 Retention Time (minutes): 2.871
 Quant Ion : 64
 Area (flag) : 70299 M
 Concentration (ug/L) : 0.4854
 Integration start scan : 132 Integration stop scan: 171
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

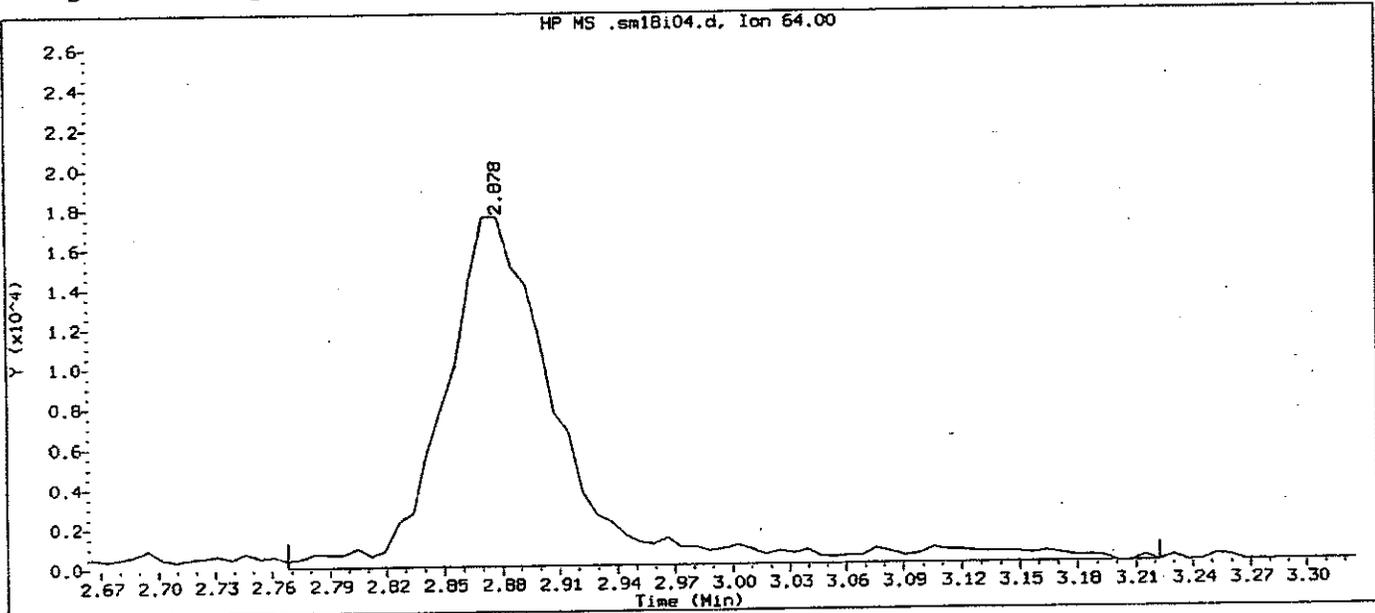
Analyst responsible for change: LCM01518 3/18/09

GC/MS audit/management approval: RM 3/19/09 WAT89 5172

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sml18i04.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:07
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

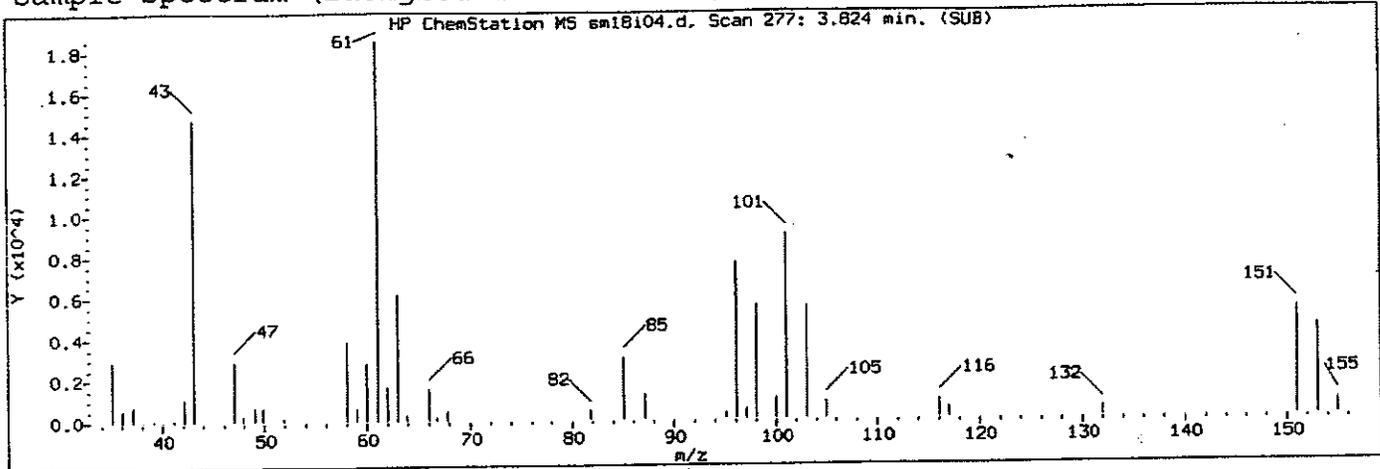
Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

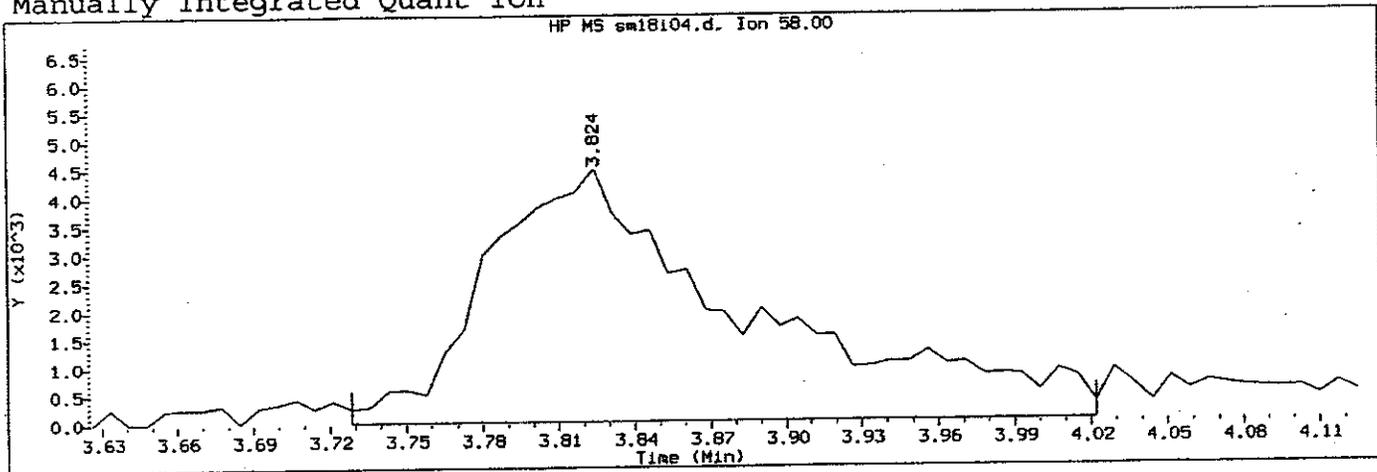
Compound Number : 5
 Compound Name : Chloroethane
 Scan Number : 148
 Retention Time (minutes): 2.878
 Quant Ion : 64
 Area : 74462
 Concentration (ug/L) : 0.5069
 Integration start scan : 132 Integration stop scan: 194
 Y at integration start : 0 Y at integration end: 0

WATER 8173

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

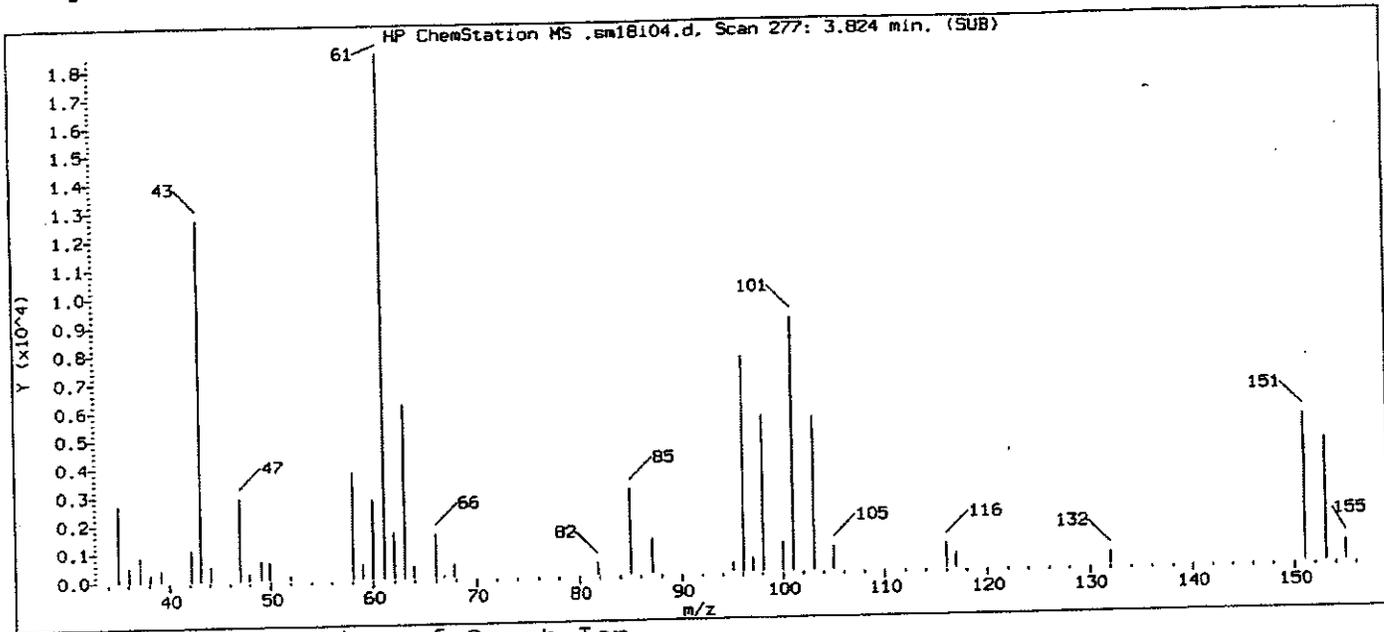
Compound Number : 12
 Compound Name : Acetone
 Scan Number : 277
 Retention Time (minutes): 3.824
 Quant Ion : 58
 Area (flag) : 32112 M
 Concentration (ug/L) : 6.2549
 Integration start scan : 263 Integration stop scan: 303
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

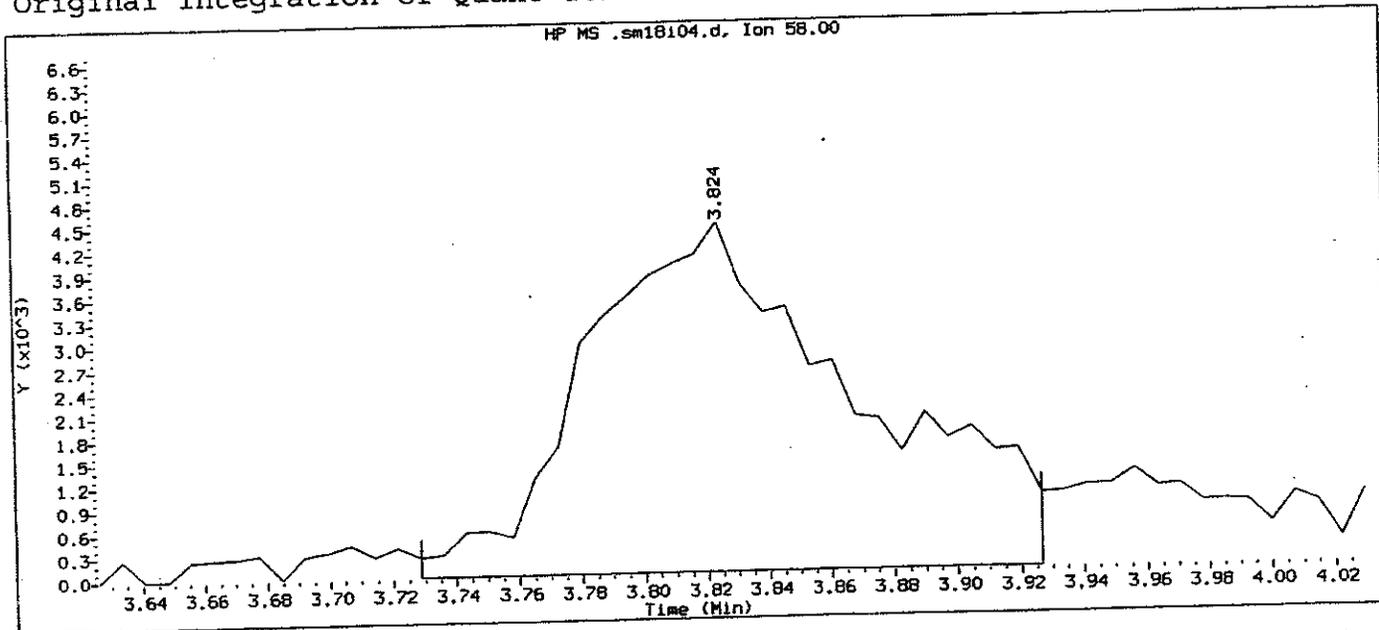
Analyst responsible for change: LCM01518

GC/MS audit/management approval: PAW, 3/19/09 WATER 8:174

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 18:07
Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

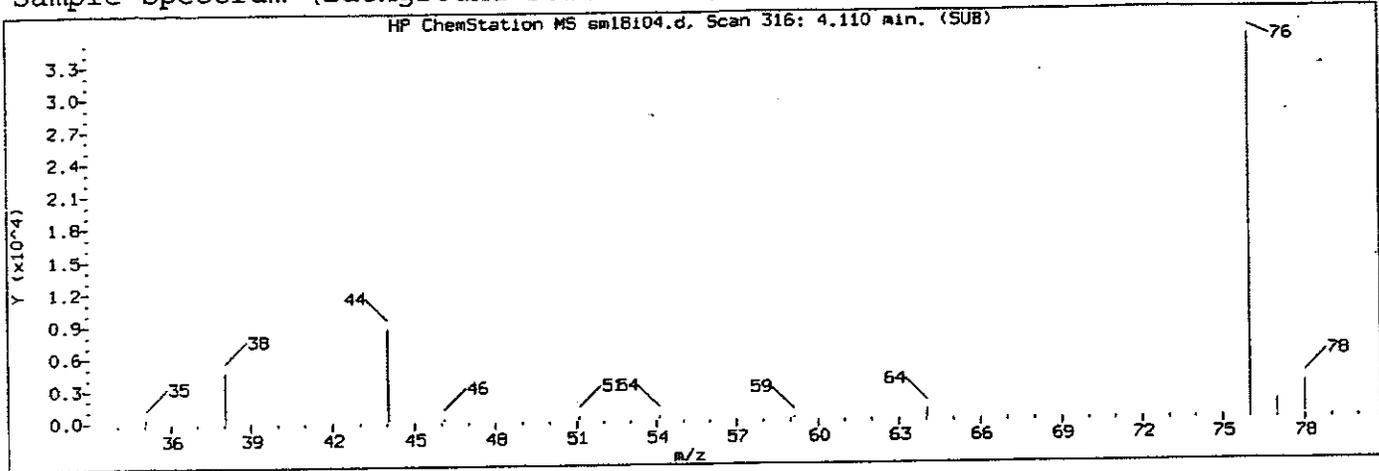
Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

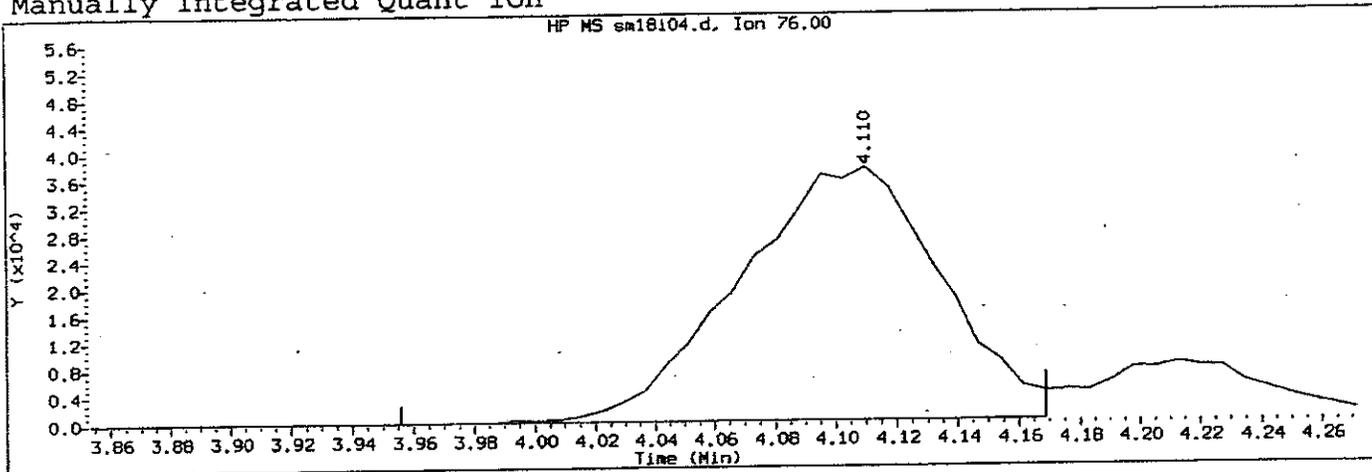
Compound Number : 12
Compound Name : Acetone
Scan Number : 277
Retention Time (minutes): 3.824
Quant Ion : 58
Area : 26926
Concentration (ug/L) : 6.4417
Integration start scan : 263 Integration stop scan: 290
Y at integration start : 0 Y at integration end: 0

WATER 8175

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

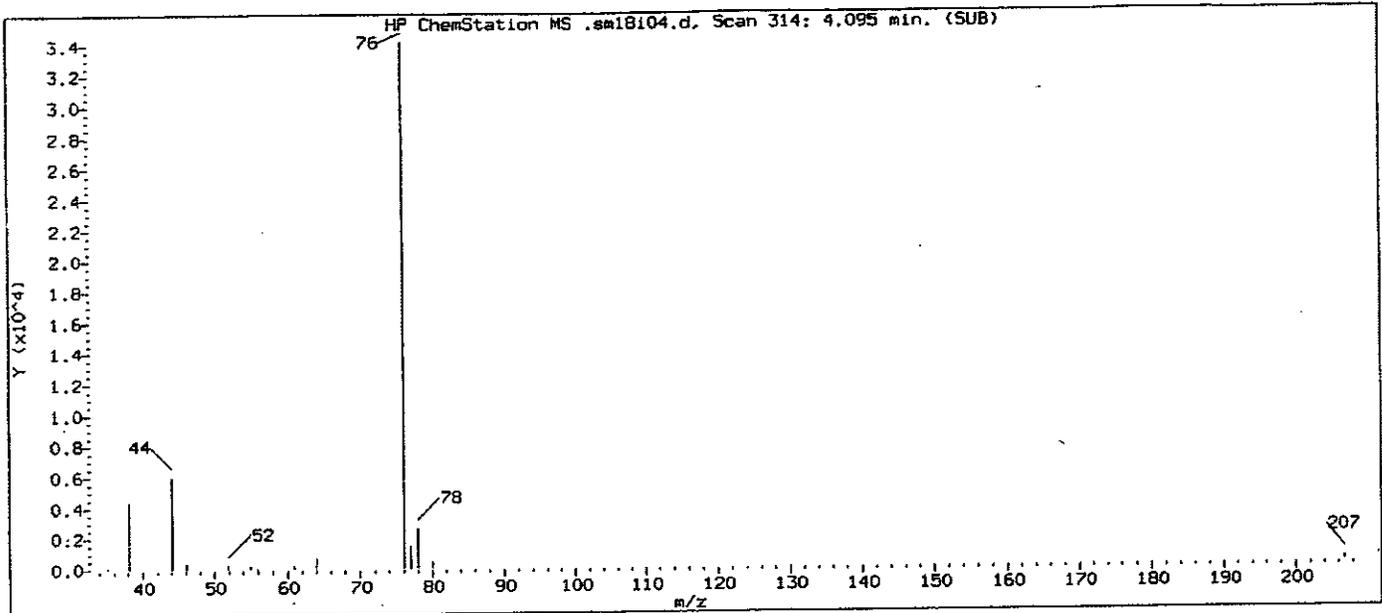
Compound Number : 14
 Compound Name : Carbon Disulfide
 Scan Number : 316
 Retention Time (minutes): 4.110
 Quant Ion : 76
 Area (flag) : 171856 M
 Concentration (ug/L) : 0.5001
 Integration start scan : 294 Integration stop scan: 323
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

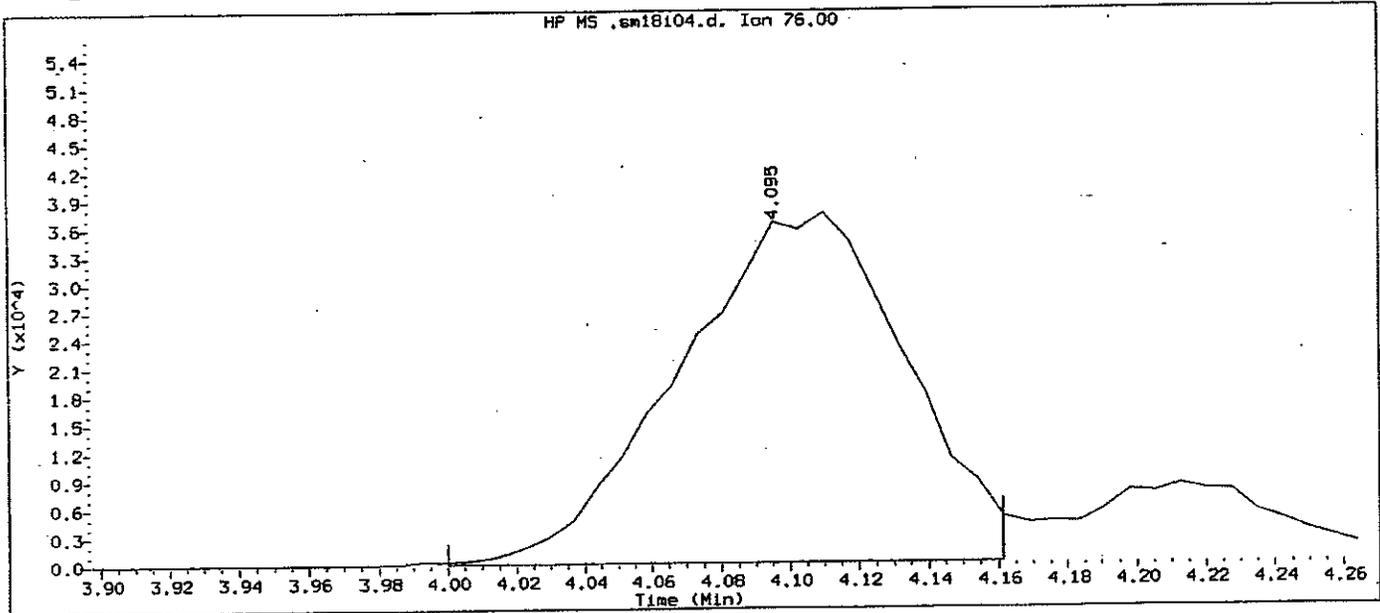
Analyst responsible for change: Ummar 2/18/09

GC/MS audit/management approval: AWM, 3/19/09 DATE: 3/17/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sml8104.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 18:07
Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

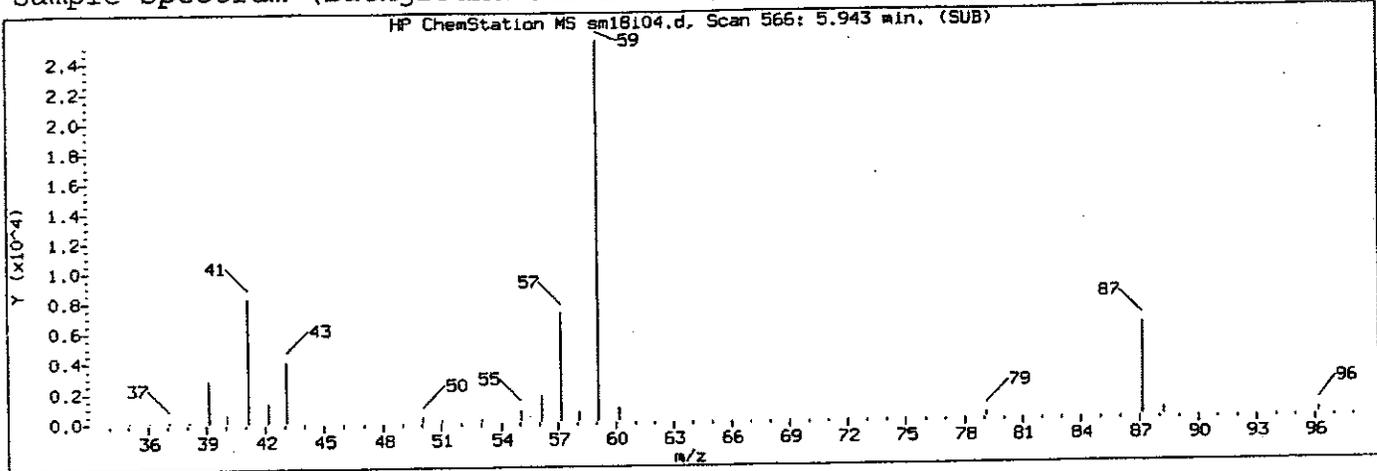
Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

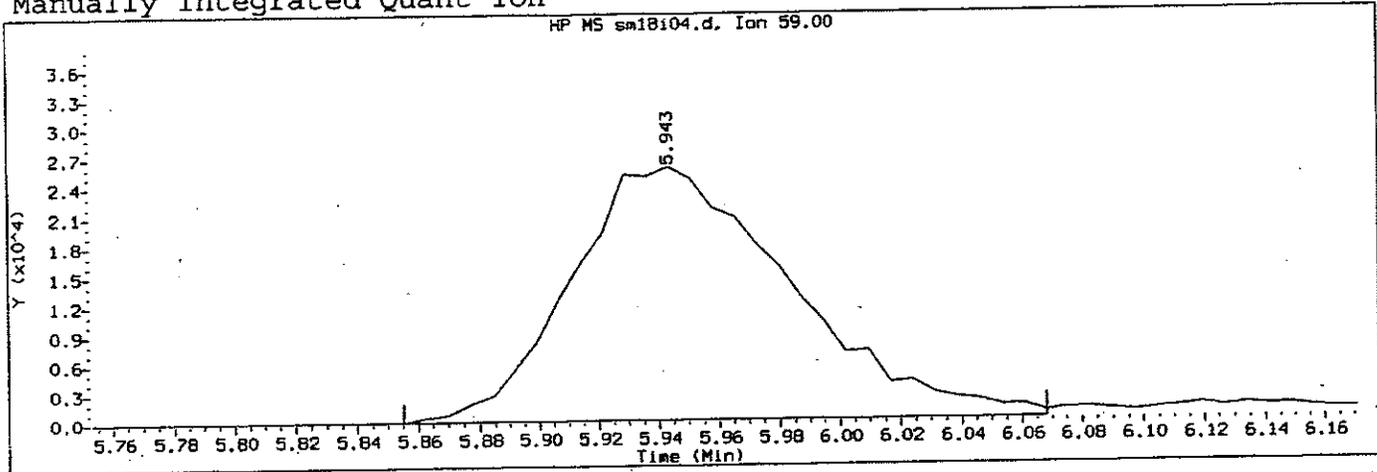
Compound Number : 14
Compound Name : Carbon Disulfide
Scan Number : 314
Retention Time (minutes) : 4.095
Quant Ion : 76
Area : 168740
Concentration (ug/L) : 0.4932
Integration start scan : 300 Integration stop scan: 322
Y at integration start : 0 Y at integration end: 0

WAT89 8177

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

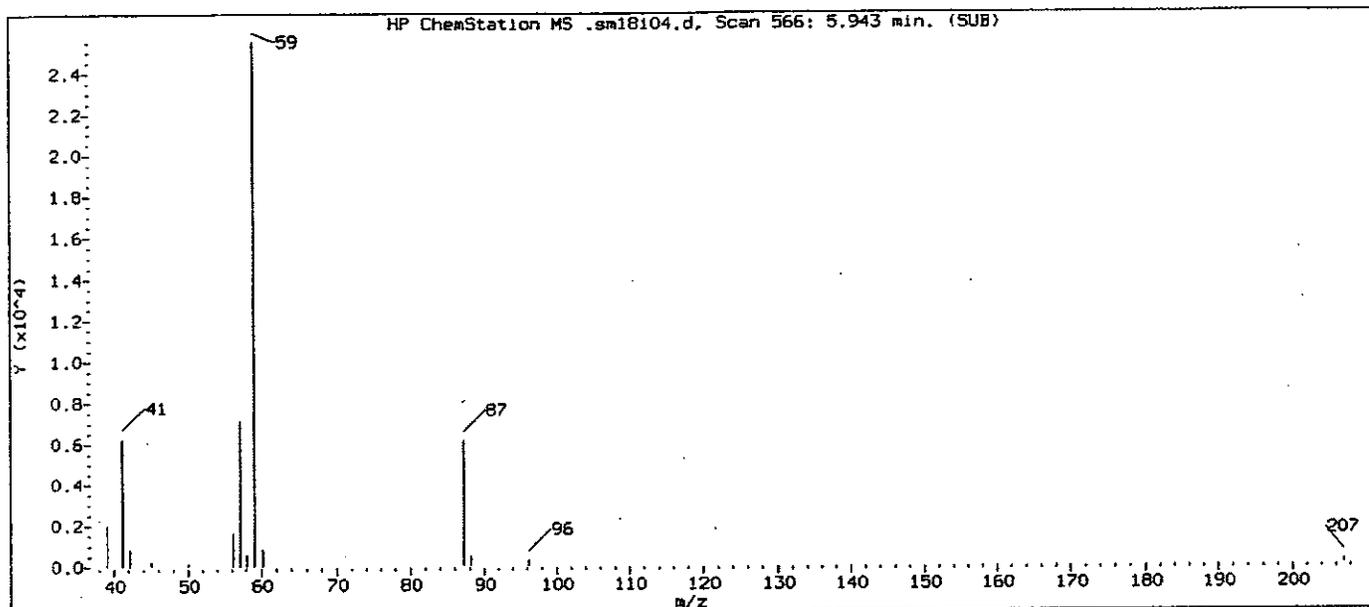
Compound Number : 25
 Compound Name : Ethyl t-Butyl Ether
 Scan Number : 566
 Retention Time (minutes): 5.943
 Quant Ion : 59
 Area (flag) : 130785 M
 Concentration (ug/L) : 0.4663
 Integration start scan : 553 Integration stop scan: 582
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

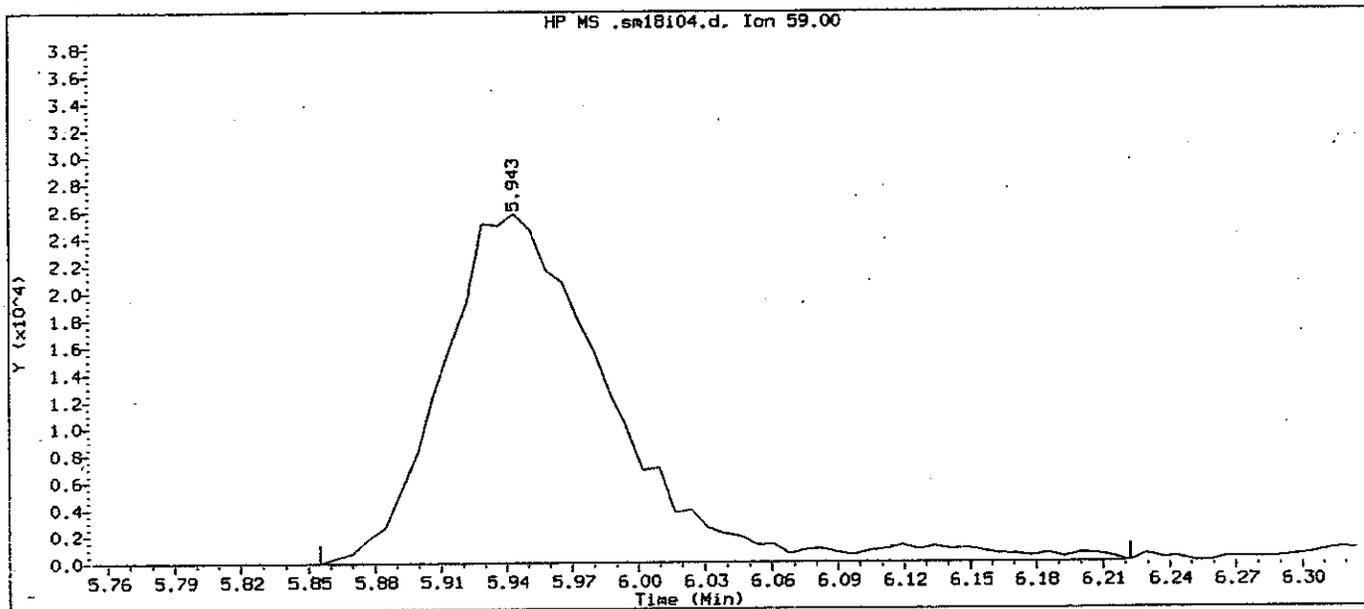
Analyst responsible for change: LCM01518 3/19/09

GC/MS audit/management approval: [Signature] 3/19/09 WAT89 8178

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

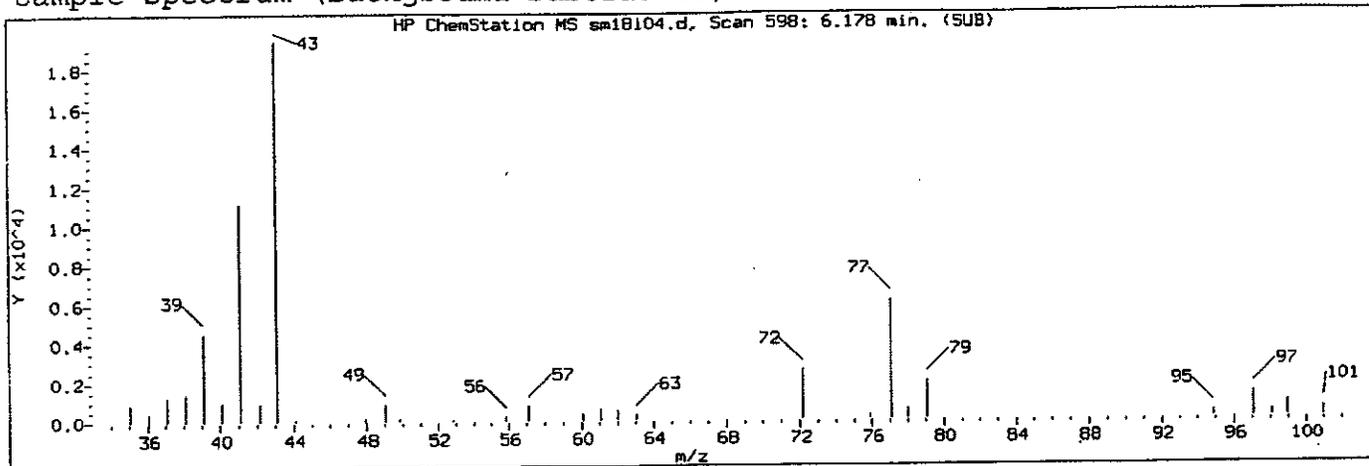
Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 18:07
Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

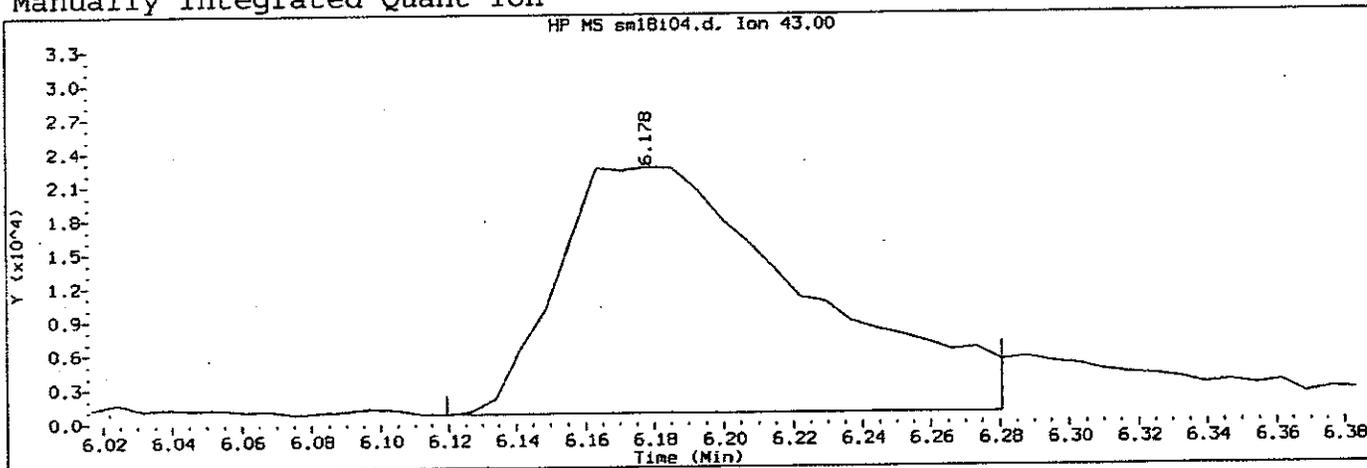
Compound Number : 25
Compound Name : Ethyl t-Butyl Ether
Scan Number : 566
Retention Time (minutes): 5.943
Quant Ion : 59
Area : 137567
Concentration (ug/L) : 0.4846
Integration start scan : 553 Integration stop scan: 603
Y at integration start : 0 Y at integration end: 0

00100 0179

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:22
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:24 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

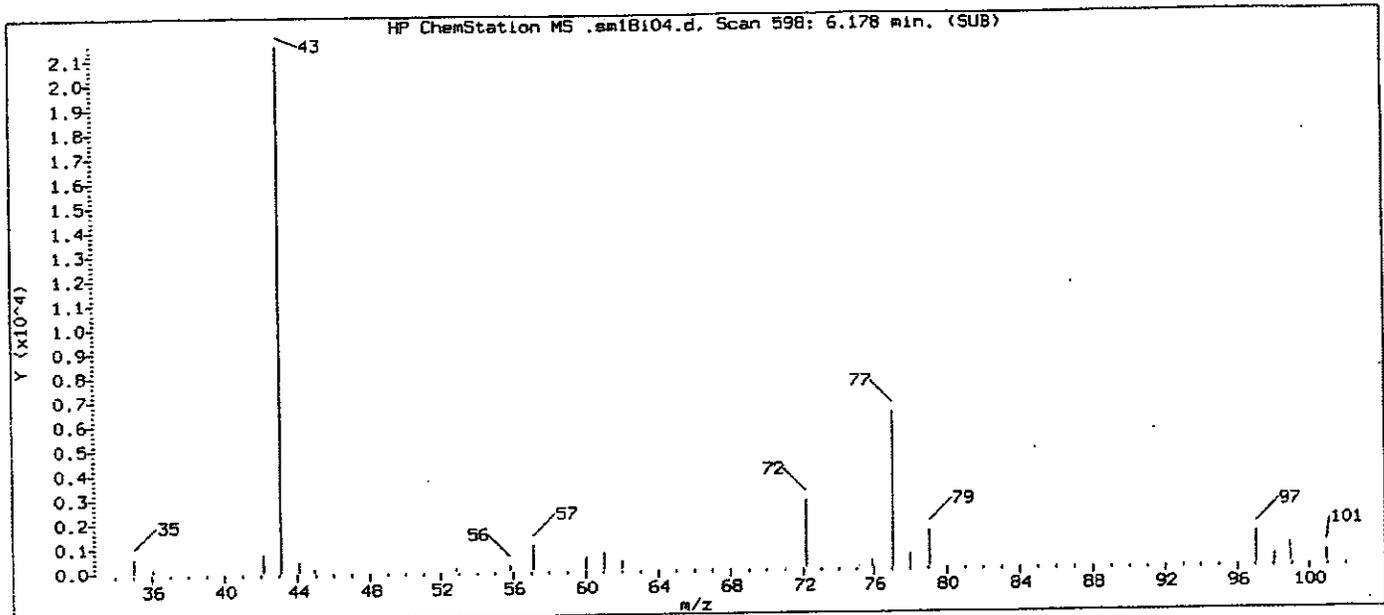
Compound Number : 28
 Compound Name : 2-Butanone
 Scan Number : 598
 Retention Time (minutes): 6.178
 Quant Ion : 43
 Area (flag) : 108955 M
 Concentration (ug/L) : 4.2303
 Integration start scan : 589 Integration stop scan: 611
 Y at integration start : 705 Y at integration end: 705

Reason for manual integration (circle one): missed peak improper integration

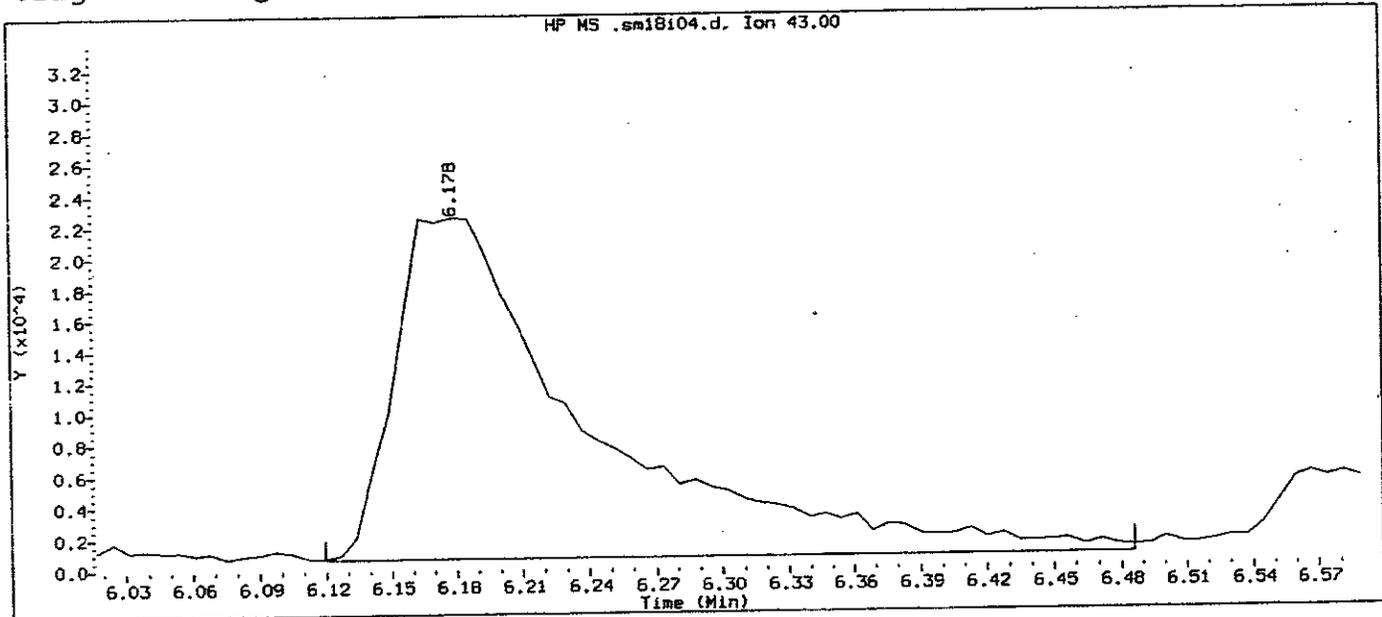
Analyst responsible for change: LMC, 3/18/09
Removal of methyl acetate contribution.

GC/MS audit/management approval: ML, 3/19/09 WATER 8188

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 18:07
Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

Sample Name: VSTD0.5

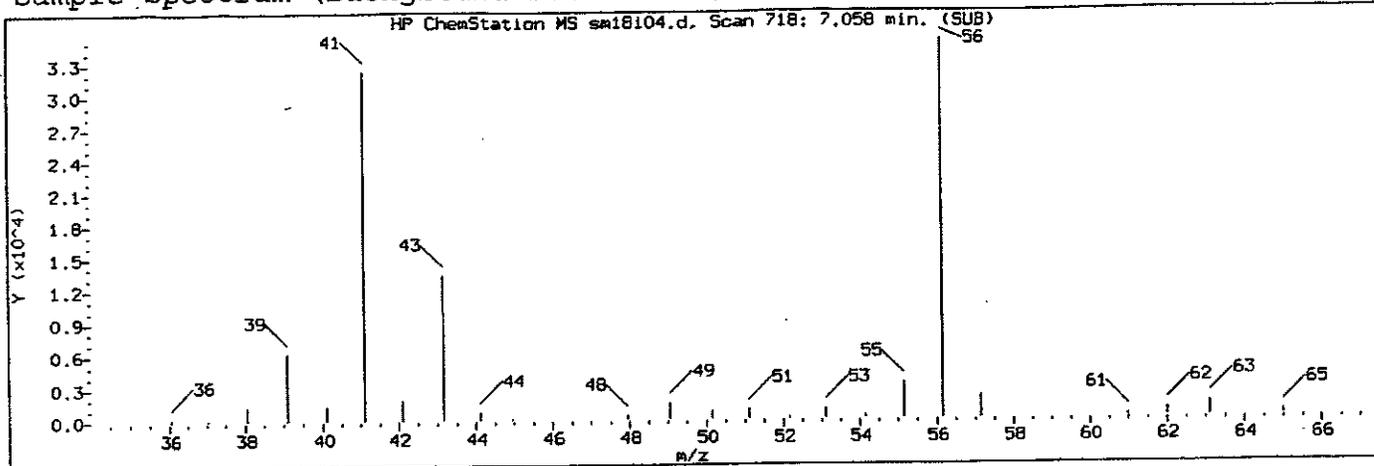
Lab Sample ID: VSTD0.5

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 598
Retention Time (minutes) : 6.178
Quant Ion : 43
Area : 134139
Concentration (ug/L) : 4.9653
Integration start scan : 589
Y at integration start : 630

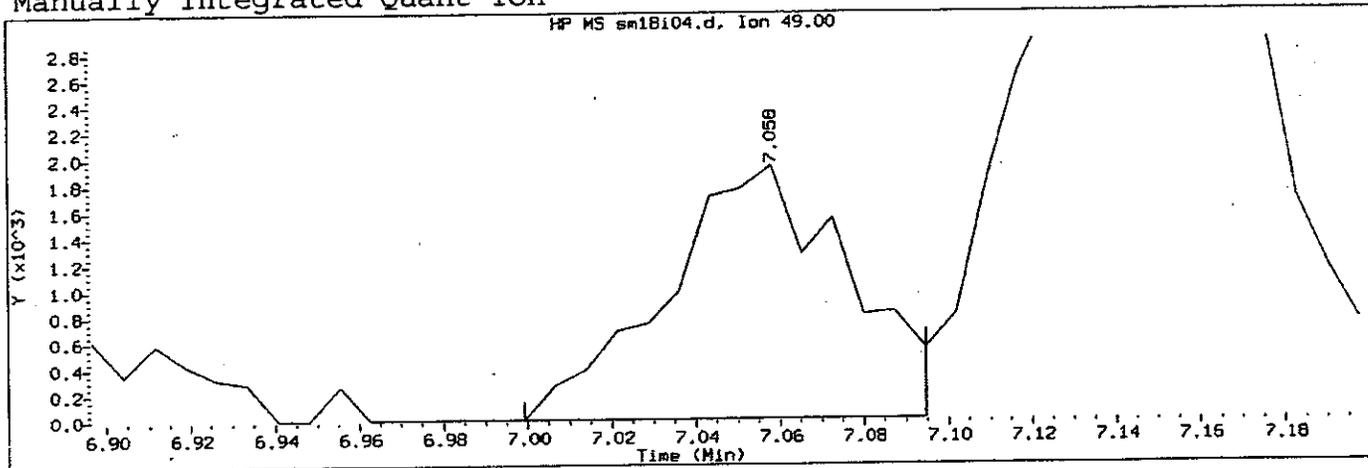
Integration stop scan: 639
Y at integration end: 629

WATER 6181

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

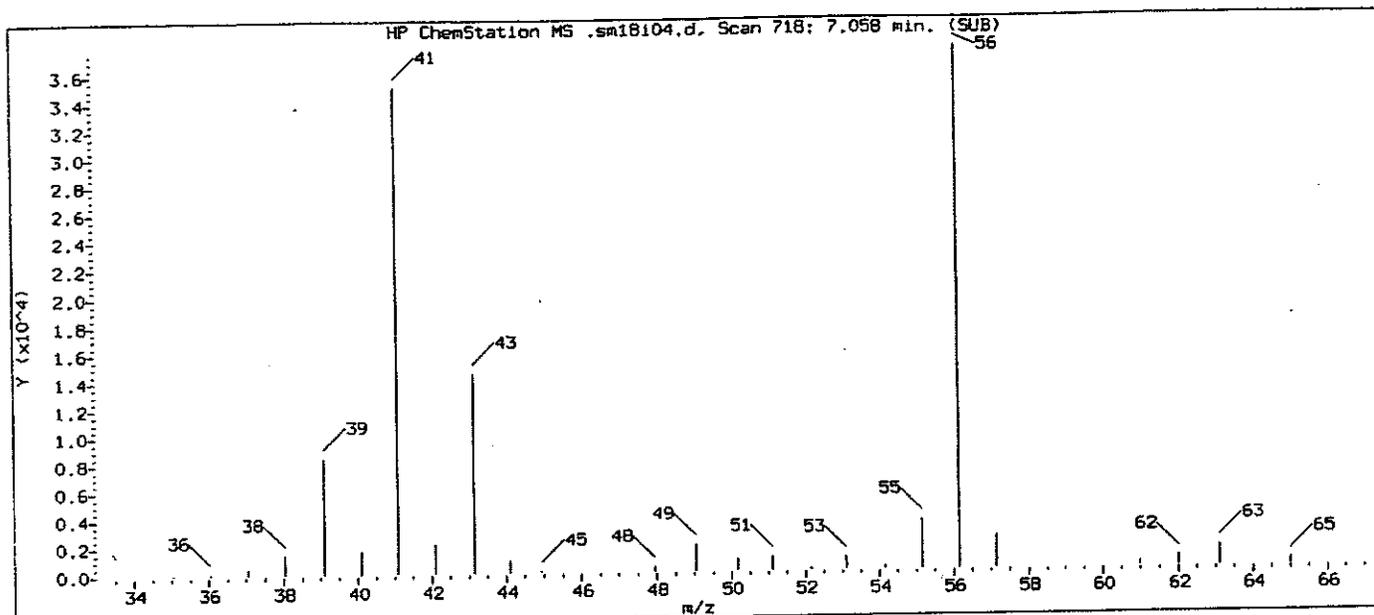
Compound Number : 36
 Compound Name : 1-Chlorobutane
 Scan Number : 718
 Retention Time (minutes): 7.058
 Quant Ion : 49
 Area (flag) : 5892 M
 Concentration (ug/L) : 0.4538
 Integration start scan : 709 Integration stop scan: 722
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

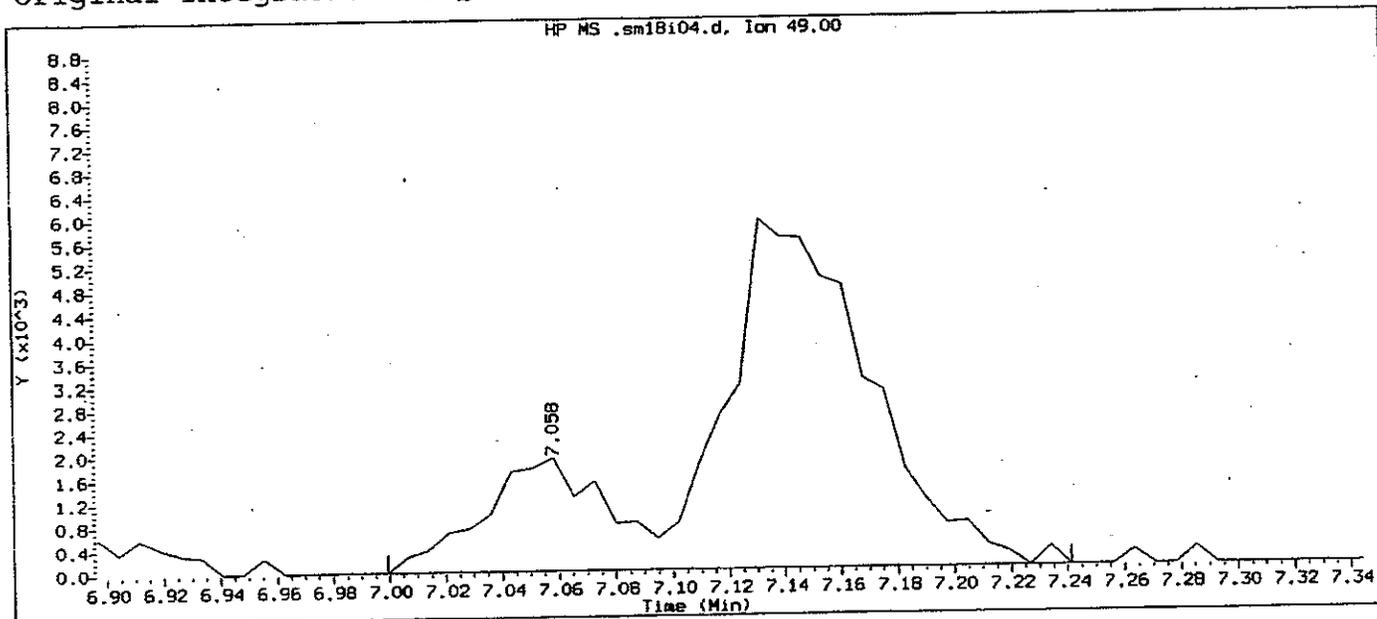
Analyst responsible for change: Ummar 3/18/09

GC/MS audit/management approval: [Signature] 3/19/09 #4789 8182

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:07
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

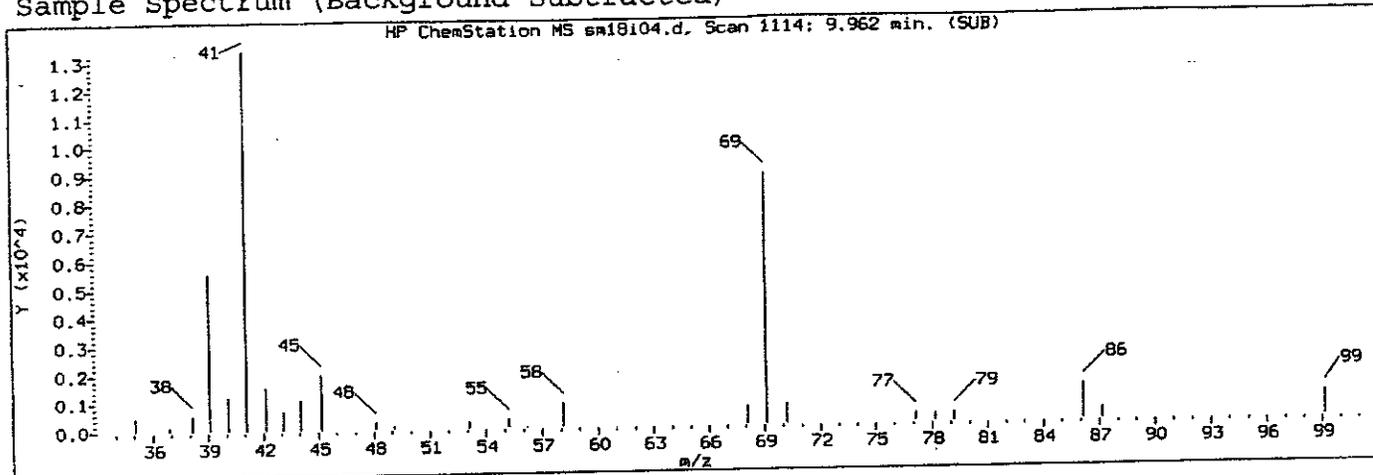
Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

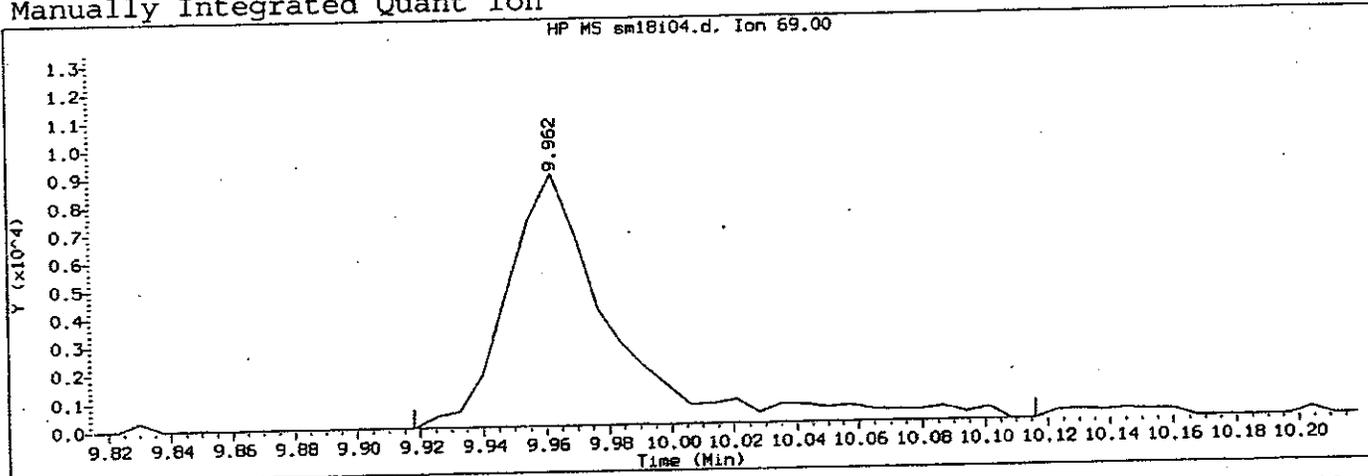
Compound Number : 36
 Compound Name : 1-Chlorobutane
 Scan Number : 718
 Retention Time (minutes): 7.058
 Quant Ion : 49
 Area : 26506
 Concentration (ug/L) : 1.1381
 Integration start scan : 709 Integration stop scan: 742
 Y at integration start : 0 Y at integration end: 0

MAR09 01:03

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518
 Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

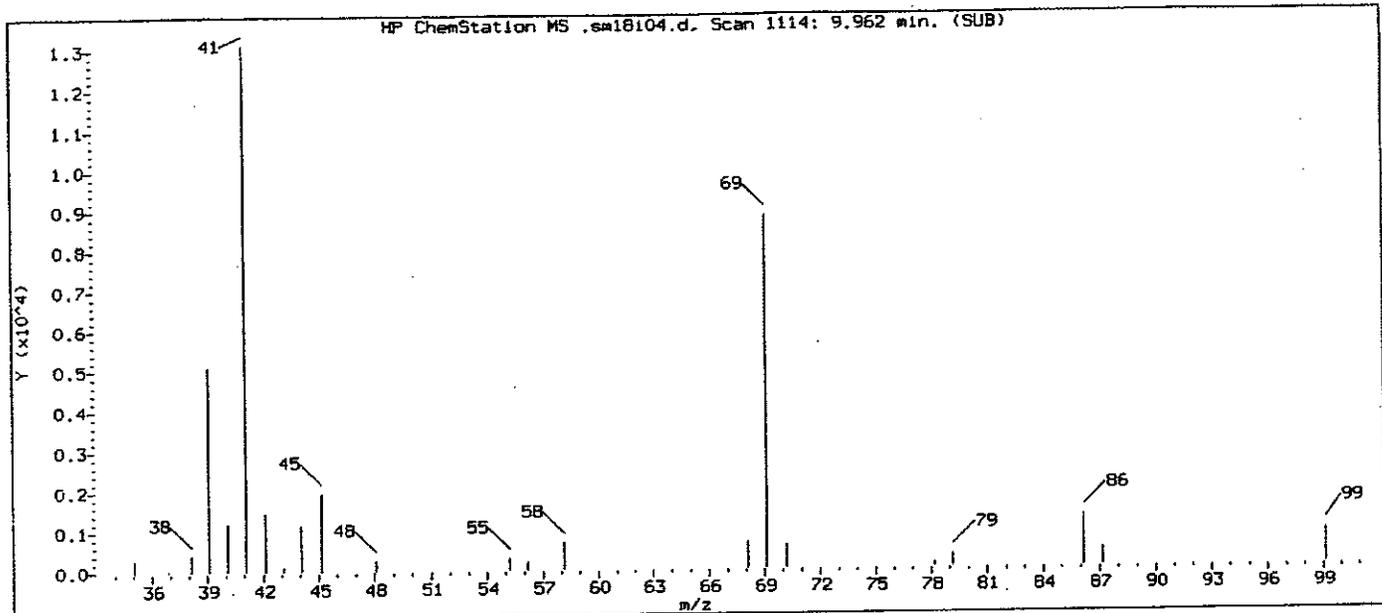
Compound Number : 56
 Compound Name : Ethyl Methacrylate
 Scan Number : 1114
 Retention Time (minutes): 9.962
 Quant Ion : 69
 Area (flag) : 21380 M
 Concentration (ug/L) : 0.4199
 Integration start scan : 1107 Integration stop scan: 1134
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

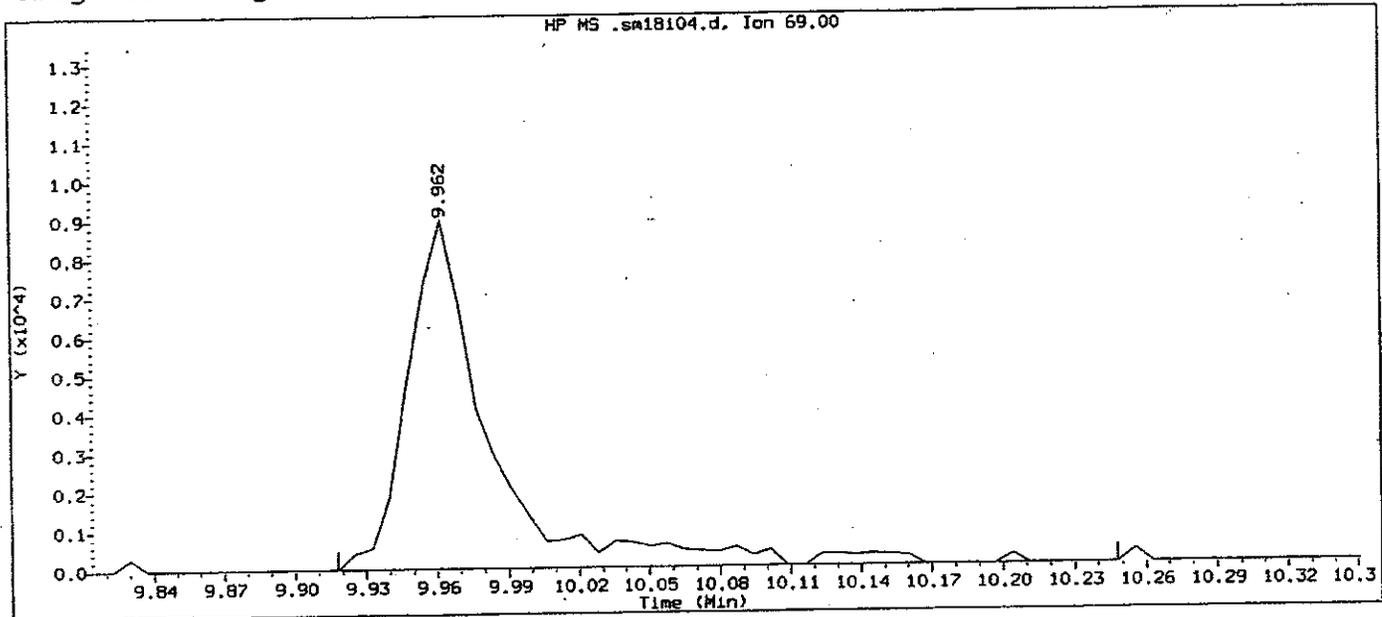
Analyst responsible for change: LCM 3/18/09

GC/MS audit/management approval: WLM 3/19/09 ~~WAT09 8184~~

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:07
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

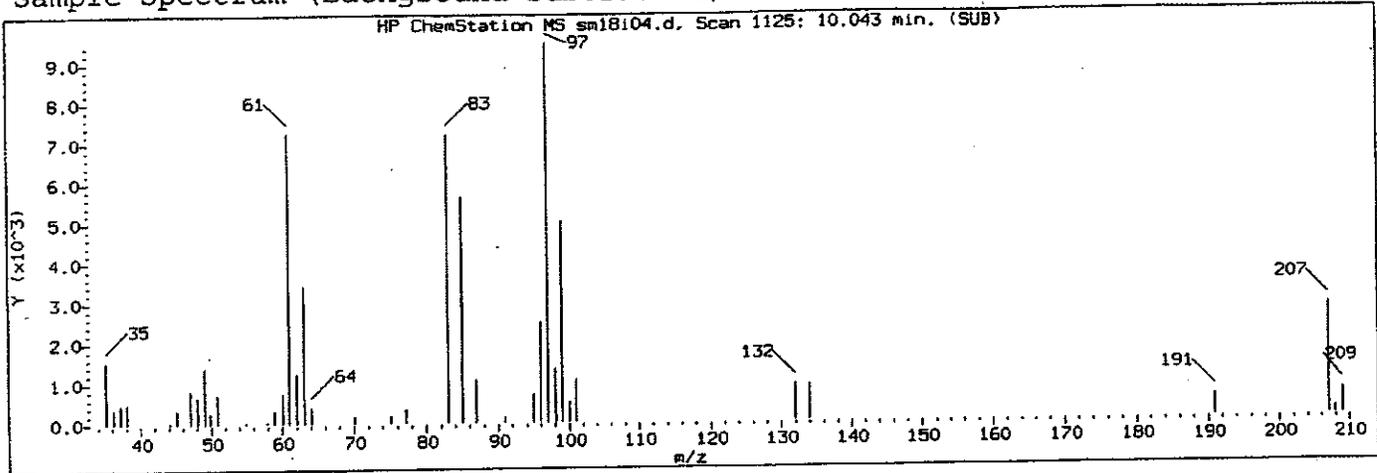
Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

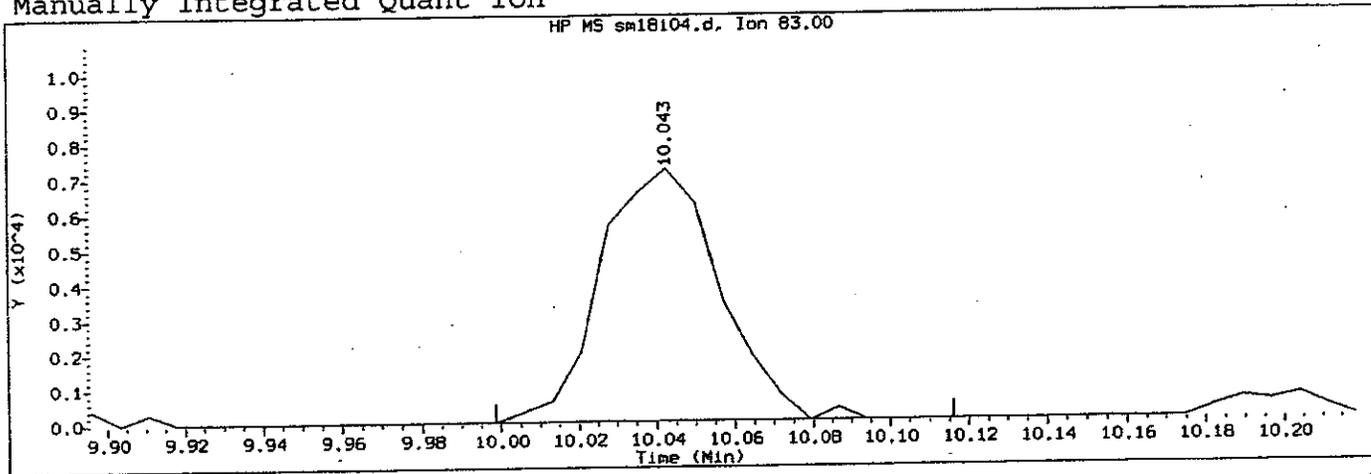
Compound Number : 56
 Compound Name : Ethyl Methacrylate
 Scan Number : 1114
 Retention Time (minutes) : 9.962
 Quant Ion : 69
 Area : 22220
 Concentration (ug/L) : 0.4329
 Integration start scan : 1107 Integration stop scan: 1152
 Y at integration start : 0 Y at integration end: 0

WAT09 0185

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

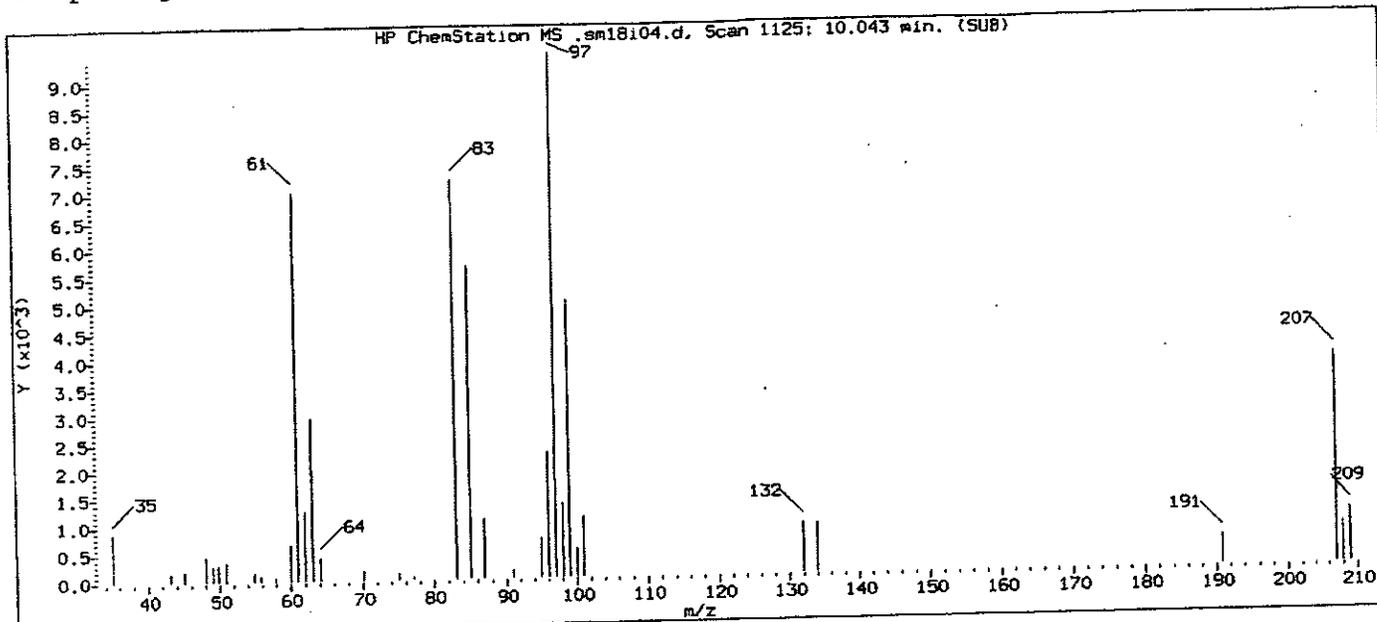
Compound Number : 57
 Compound Name : 1,1,2-Trichloroethane
 Scan Number : 1125
 Retention Time (minutes): 10.043
 Quant Ion : 83
 Area (flag) : 15326 M
 Concentration (ug/L) : 0.4658
 Integration start scan : 1118 Integration stop scan: 1134
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

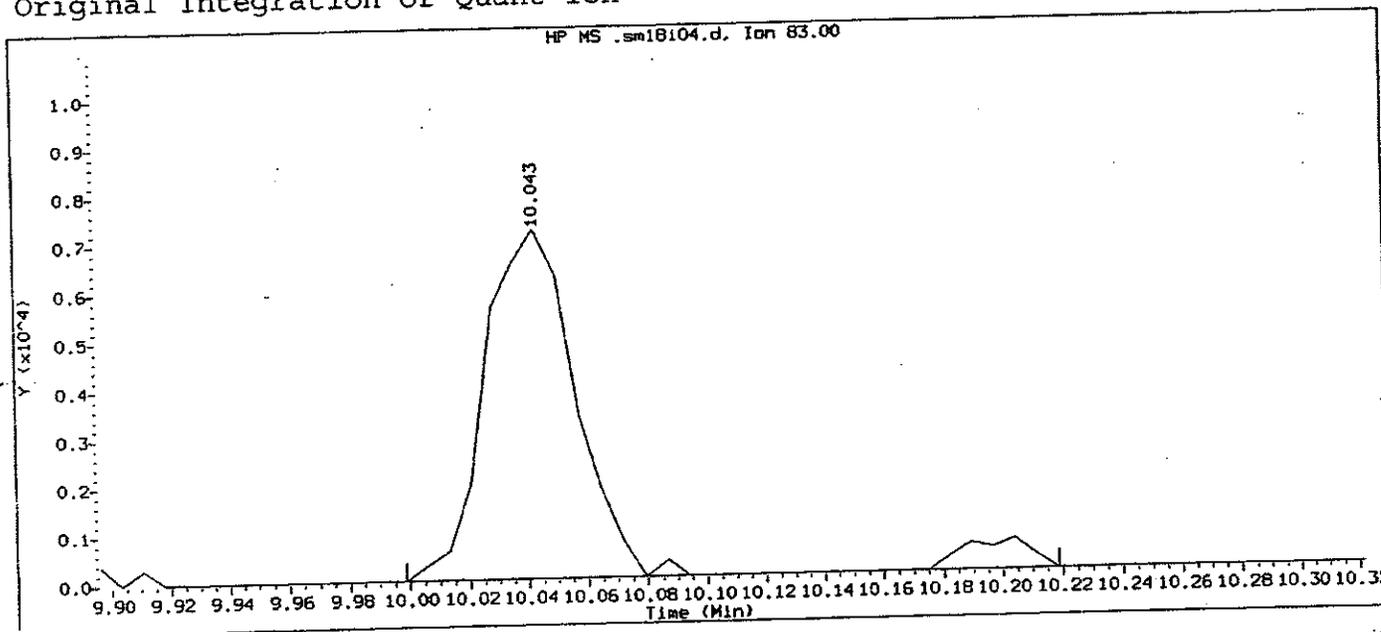
Analyst responsible for change: LCM01518

GC/MS audit/management approval: PM/1, 3/19/09 WATSON 8185

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18i04.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 18:07
Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

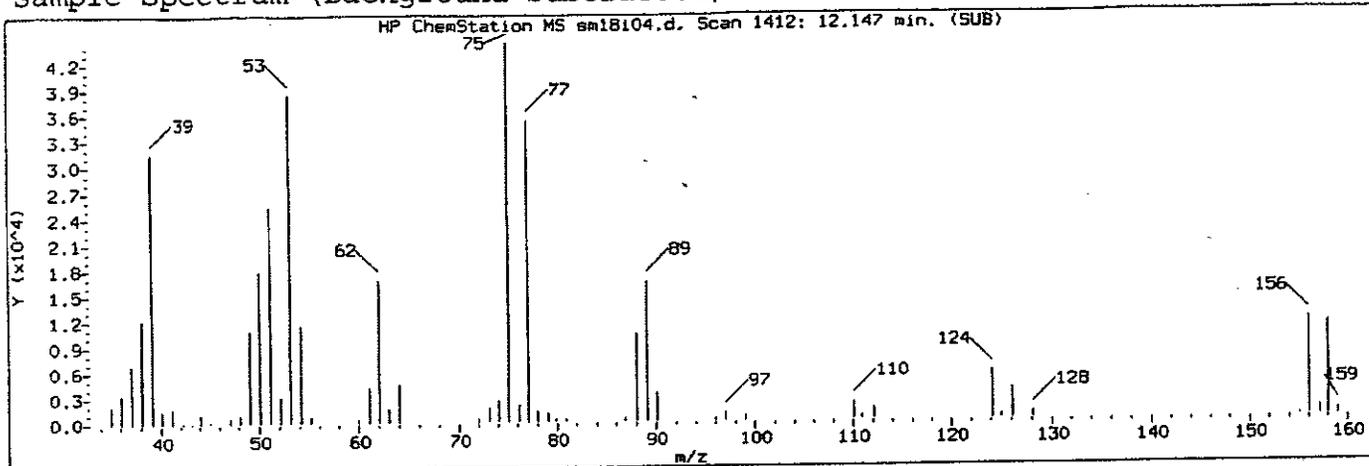
Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

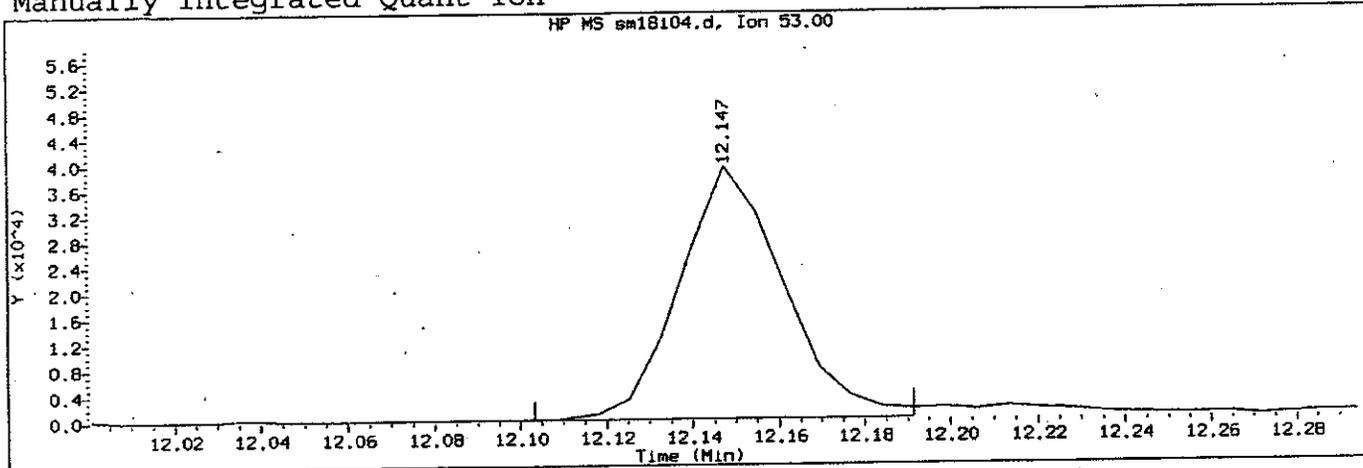
Compound Number : 57
Compound Name : 1,1,2-Trichloroethane
Scan Number : 1125
Retention Time (minutes): 10.043
Quant Ion : 83
Area : 16320
Concentration (ug/L) : 0.4887
Integration start scan : 1118 Integration stop scan: 1148
Y at integration start : 0 Y at integration end: 0

DATE: 03/18/2009

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

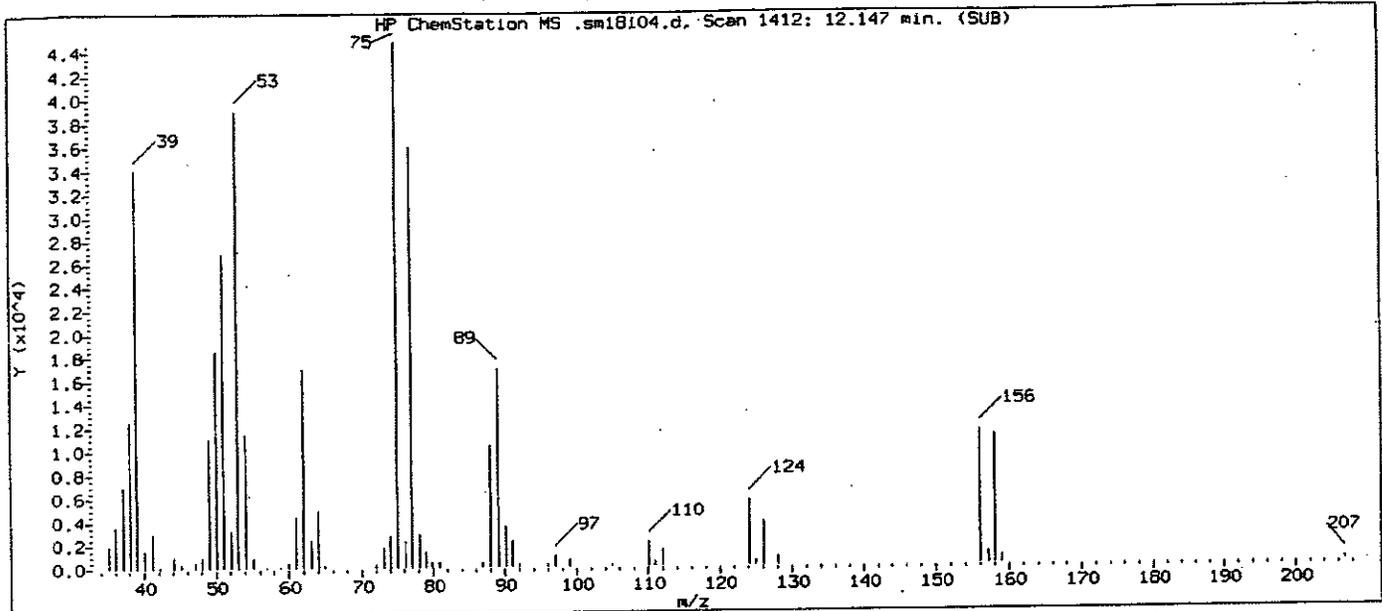
Compound Number : 77
 Compound Name : trans-1,4-Dichloro-2-Butene
 Scan Number : 1412
 Retention Time (minutes): 12.147
 Quant Ion : 53
 Area (flag) : 65623 M
 Concentration (ug/L) : 4.6661
 Integration start scan : 1405 Integration stop scan: 1417
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

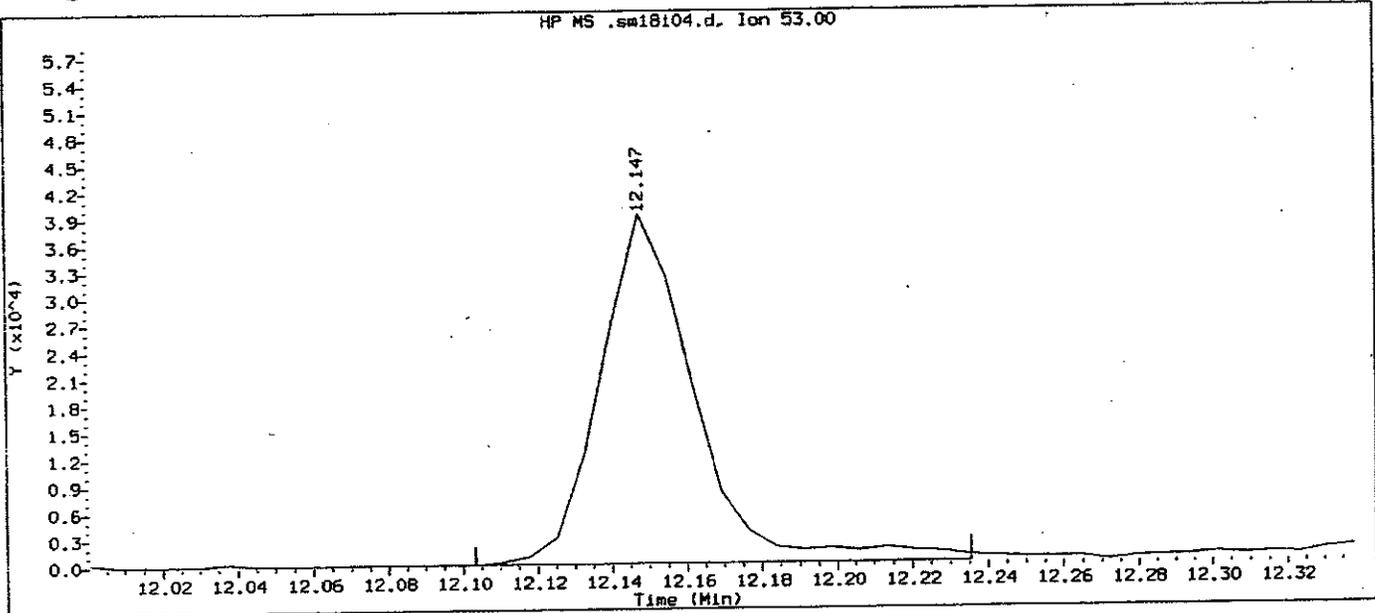
Analyst responsible for change: Ummor 3/18/09

GC/MS audit/management approval: LCM 3/19/09 DATE: 3/18/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



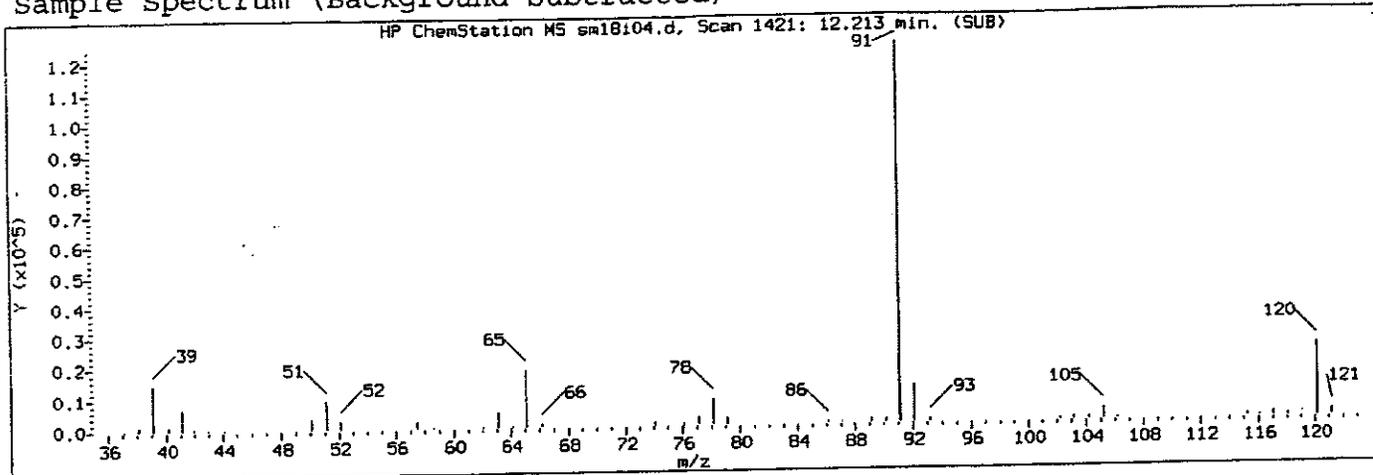
Data File: /chem/SH08359.i/09mar18b.b/sml8104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:07
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

Sample Name: VSTD0.5

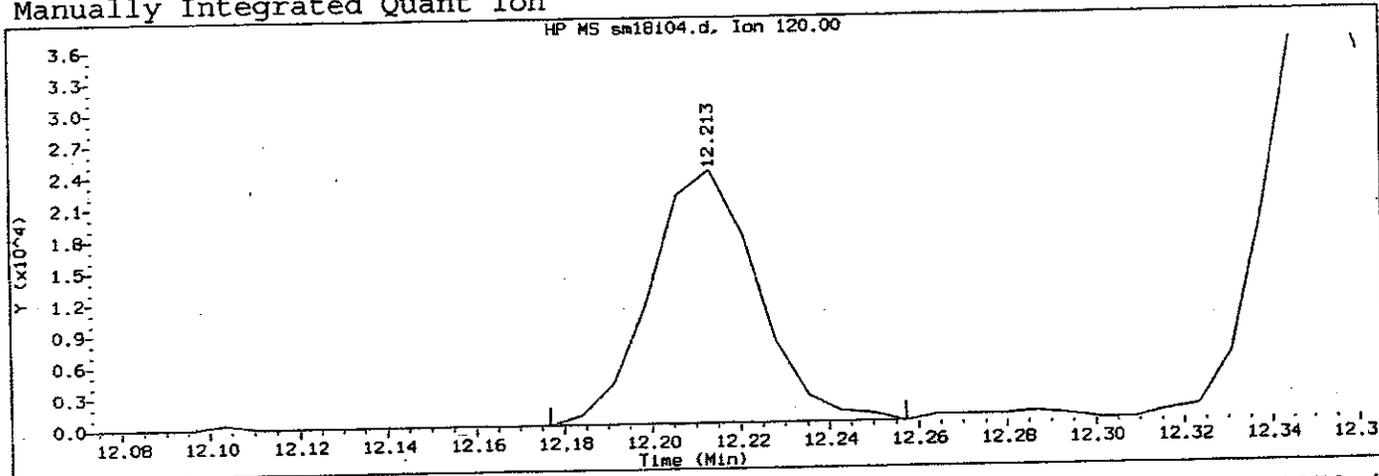
Lab Sample ID: VSTD0.5

Compound Number : 77
 Compound Name : trans-1,4-Dichloro-2-Butene
 Scan Number : 1412
 Retention Time (minutes) : 12.147
 Quant Ion : 53
 Area : 68859
 Concentration (ug/L) : 4.8406
 Integration start scan : 1405 Integration stop scan: 1423
 Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

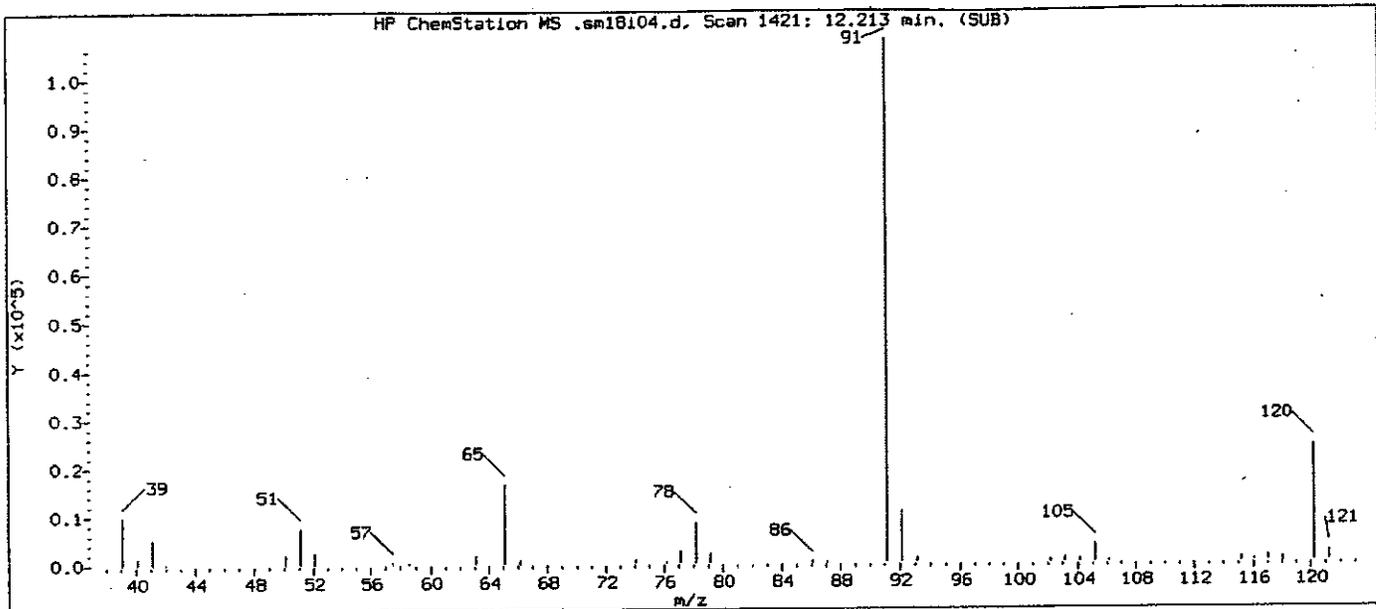
Compound Number : 78
 Compound Name : n-Propylbenzene
 Scan Number : 1421
 Retention Time (minutes): 12.213
 Quant Ion : 120
 Area (flag) : 40431 M
 Concentration (ug/L) : 0.4545
 Integration start scan : 1415 Integration stop scan: 1426
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

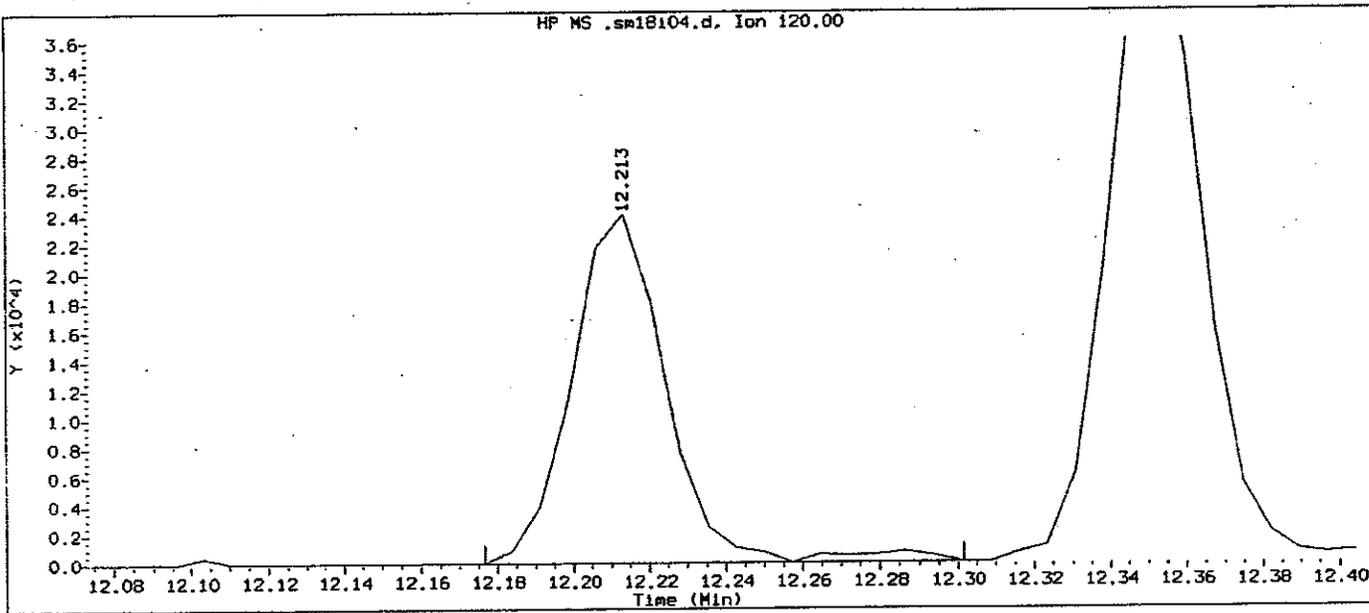
Analyst responsible for change: LCM01518

GC/MS audit/management approval: LCM01518 3/19/09 WAT189 8198

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sml8i04.d Instrument ID: SH08359.i
Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 18:07
Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

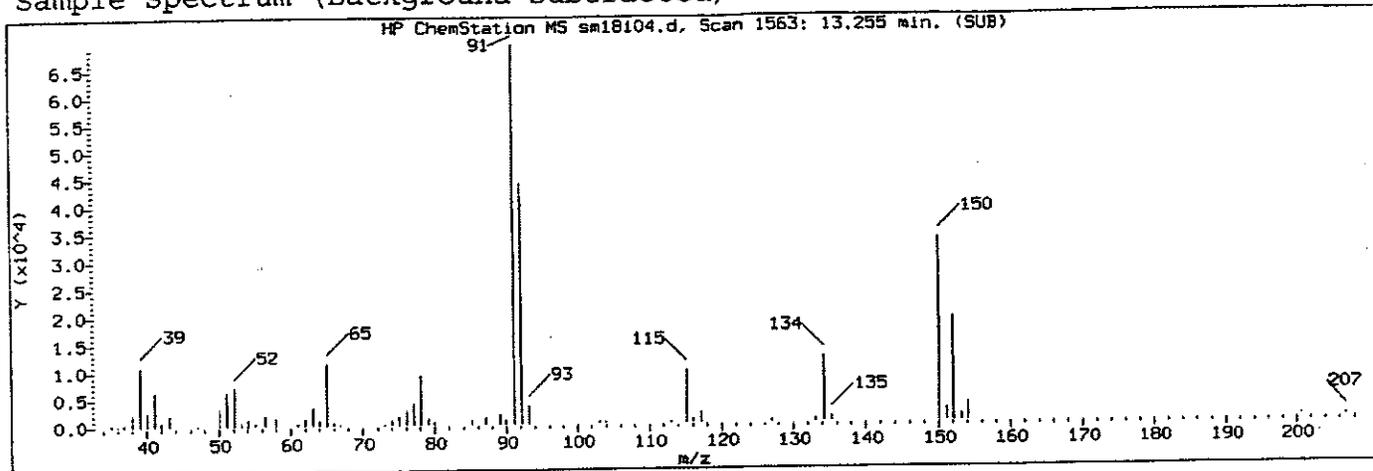
Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

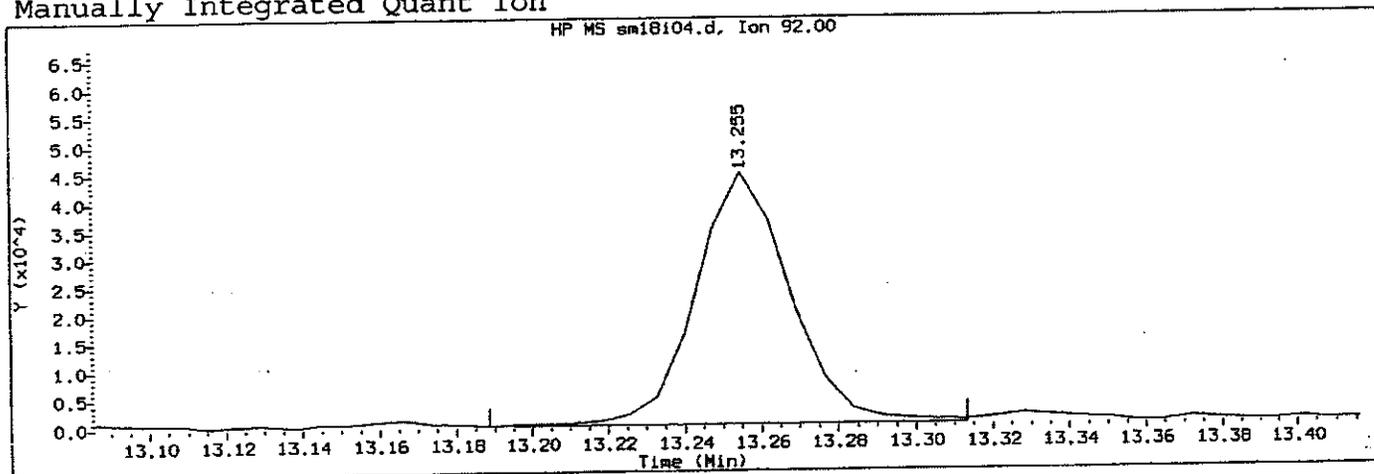
Compound Number : 78
Compound Name : n-Propylbenzene
Scan Number : 1421
Retention Time (minutes) : 12.213
Quant Ion : 120
Area : 41671
Concentration (ug/L) : 0.4652
Integration start scan : 1415 Integration stop scan: 1432
Y at integration start : 0 Y at integration end: 0

WATER 0151

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:15
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:15 lcm01518

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

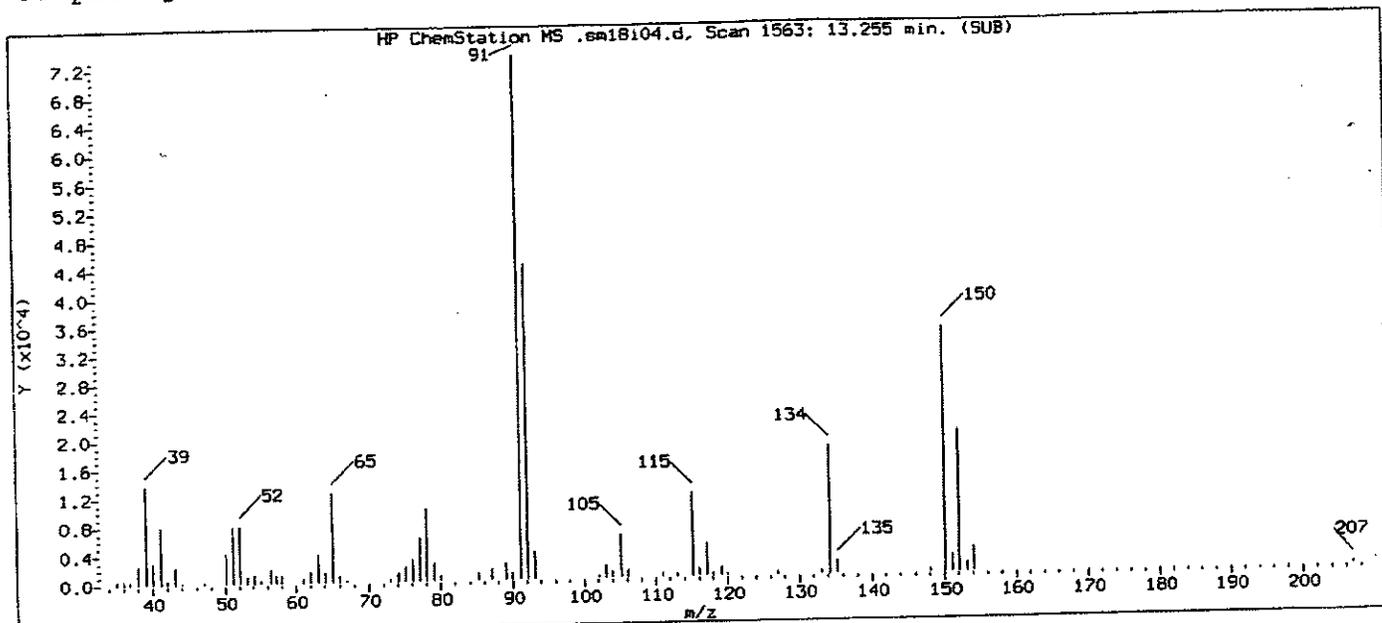
Compound Number : 89
 Compound Name : n-Butylbenzene
 Scan Number : 1563
 Retention Time (minutes): 13.255
 Quant Ion : 92
 Area (flag) : 76587 M
 Concentration (ug/L) : 0.4802
 Integration start scan : 1553 Integration stop scan: 1570
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

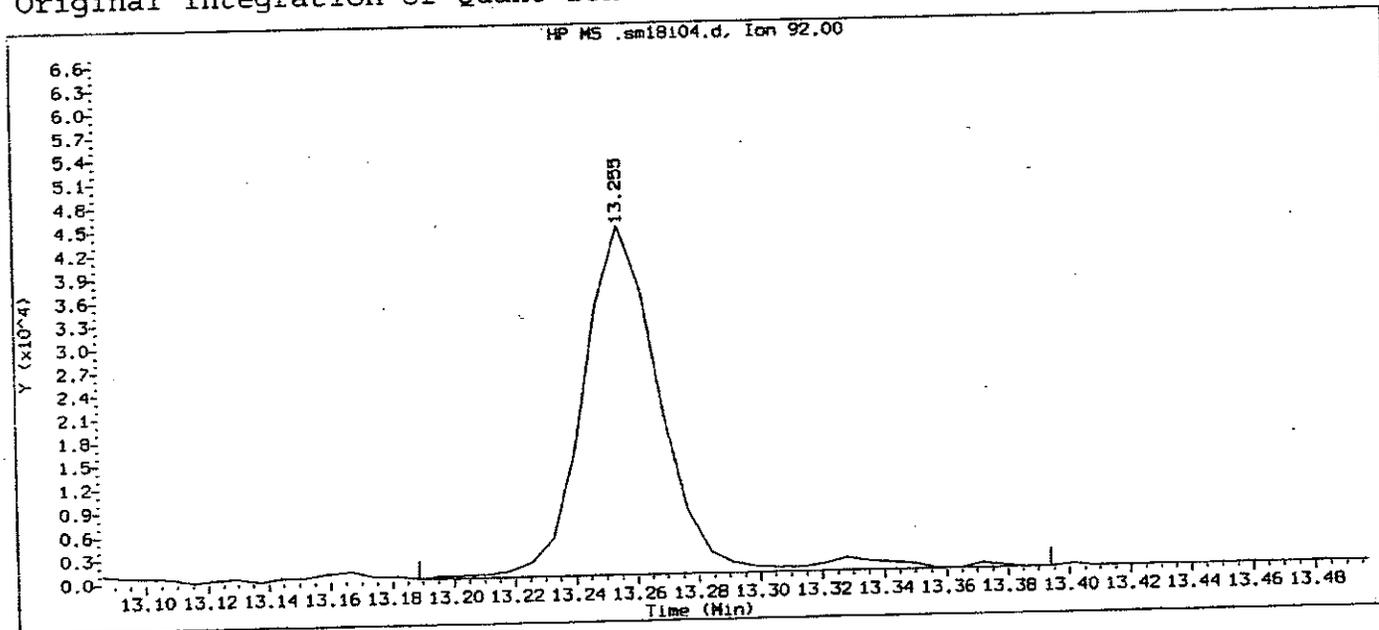
Analyst responsible for change: Umarahele

GC/MS audit/management approval: MM 3/19/09 HAT69 8192

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18104.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 17:48 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:07
 Date, time and analyst ID of latest file update: 18-Mar-2009 18:07 Automation

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

Compound Number : 89
 Compound Name : n-Butylbenzene
 Scan Number : 1563
 Retention Time (minutes) : 13.255
 Quant Ion : 92
 Area : 79346
 Concentration (ug/L) : 0.4933
 Integration start scan : 1553 Integration stop scan: 1581
 Y at integration start : 0 Y at integration end: 0

WAT89 8193

Lancaster Laboratories, Inc.
GC/MS Initial Calibration Verification

File: sm18s32.d
Inst: SH08359
Dilution Factor: 1.0

Injected: 03/18/09 at 19:52
Sample: LFBS53

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: S090772AA

| COMPOUND NAME | SPIKE LEVEL | ICV CONC UG/L | ICV REC % | Range LOWER-UPPER | INSPEC |
|-----------------------------|-------------|---------------|-----------|-------------------|--------|
| Dichlorodifluoromethane | 2.00 | 1.91 | 96 | 70-130 | YES |
| Chloromethane | 2.00 | 2.04 | 102 | 70-130 | YES |
| Vinyl Chloride | 2.00 | 1.85 | 92 | 70-130 | YES |
| Bromomethane | 2.00 | 2.21 | 110 | 70-130 | YES |
| Chloroethane | 2.00 | 2.15 | 108 | 70-130 | YES |
| Dichlorofluoromethane | 2.00 | 2.08 | 104 | 70-130 | YES |
| Trichlorofluoromethane | 2.00 | 1.69 | 85 | 70-130 | YES |
| Ethyl Ether | 5.00 | 5.72 | 114 | 70-130 | YES |
| Acrolein | 37.50 | 40.03 | 107 | 70-130 | YES |
| 1,1-Dichloroethene | 5.00 | 5.32 | 106 | 70-130 | YES |
| Freon 113 | 5.00 | 5.48 | 110 | 70-130 | YES |
| Acetone | 37.50 | 42.11 | 112 | 70-130 | YES |
| Methyl Iodide | 5.00 | 5.32 | 106 | 70-130 | YES |
| Carbon Disulfide | 5.00 | 5.76 | 115 | 70-130 | YES |
| Allyl Chloride | 5.00 | 5.23 | 105 | 70-130 | YES |
| Methylene Chloride | 5.00 | 5.73 | 115 | 70-130 | YES |
| t-Butyl Alcohol | 50.00 | 50.87 | 102 | 70-130 | YES |
| Acrylonitrile | 112.50 | 127.48 | 113 | 70-130 | YES |
| trans-1,2-Dichloroethene | 5.00 | 5.32 | 106 | 70-130 | YES |
| Methyl Tertiary Butyl Ether | 5.00 | 5.20 | 104 | 70-130 | YES |
| 1,1-Dichloroethane | 5.00 | 5.18 | 104 | 70-130 | YES |
| di-Isopropyl Ether | 5.00 | 5.40 | 108 | 70-130 | YES |
| Ethyl t-Butyl Ether | 5.00 | 5.44 | 109 | 70-130 | YES |
| cis-1,2-Dichloroethene | 5.00 | 5.28 | 106 | 70-130 | YES |
| 2,2-Dichloropropane | 5.00 | 5.43 | 109 | 70-130 | YES |
| 2-Butanone | 37.50 | 42.24 | 113 | 70-130 | YES |
| Propionitrile | 100.00 | 106.73 | 107 | 70-130 | YES |
| Methyl Acrylate | 25.00 | 27.53 | 110 | 70-130 | YES |
| Methacrylonitrile | 37.50 | 38.21 | 102 | 70-130 | YES |
| Bromochloromethane | 5.00 | 5.16 | 103 | 70-130 | YES |
| Tetrahydrofuran | 45.00 | 44.43 | 99 | 70-130 | YES |
| Chloroform | 5.00 | 5.44 | 109 | 70-130 | YES |
| 1,1,1-Trichloroethane | 5.00 | 5.53 | 111 | 70-130 | YES |
| 1-Chlorobutane | 5.00 | 5.77 | 115 | 70-130 | YES |
| Carbon Tetrachloride | 5.00 | 5.68 | 114 | 70-130 | YES |
| 1,1-Dichloropropene | 5.00 | 5.33 | 107 | 70-130 | YES |
| Benzene | 5.00 | 5.38 | 108 | 70-130 | YES |
| 1,2-Dichloroethane | 5.00 | 5.51 | 110 | 70-130 | YES |
| t-Amyl Methyl Ether | 5.00 | 5.20 | 104 | 70-130 | YES |
| Trichloroethene | 5.00 | 5.31 | 106 | 70-130 | YES |
| 1,2-Dichloropropane | 5.00 | 5.18 | 104 | 70-130 | YES |
| Methyl Methacrylate | 5.00 | 4.85 | 97 | 70-130 | YES |
| Dibromomethane | 5.00 | 5.31 | 106 | 70-130 | YES |
| Bromodichloromethane | 5.00 | 5.70 | 114 | 70-130 | YES |
| 2-Nitropropane | 500.00 | 572.06 | 114 | 70-130 | YES |
| Chloroacetonitrile | 250.00 | 233.60 | 93 | 70-130 | YES |
| cis-1,3-Dichloropropene | 5.00 | 5.43 | 109 | 70-130 | YES |
| 4-Methyl-2-Pentanone | 25.00 | 29.75 | 119 | 70-130 | YES |
| 1,1-Dichloropropanone | 500.00 | 522.19 | 104 | 70-130 | YES |
| Toluene | 5.00 | 5.38 | 108 | 70-130 | YES |
| trans-1,3-Dichloropropene | 5.00 | 5.59 | 112 | 70-130 | YES |
| Ethyl Methacrylate | 5.00 | 5.33 | 107 | 70-130 | YES |
| 1,1,2-Trichloroethane | 5.00 | 5.77 | 115 | 70-130 | YES |
| Tetrachloroethene | 5.00 | 5.40 | 108 | 70-130 | YES |
| 1,3-Dichloropropane | 5.00 | 5.46 | 109 | 70-130 | YES |
| 2-Hexanone | 25.00 | 28.69 | 115 | 70-130 | YES |
| Dibromochloromethane | 5.00 | 5.65 | 113 | 70-130 | YES |
| 1,2-Dibromoethane | 5.00 | 5.43 | 109 | 70-130 | YES |

N/C = Could not calculate
Ent. by _____

Lab Chronicle: _____

Ver. by WATSON 2/15/09

Lancaster Laboratories, Inc.
GC/MS Initial Calibration Verification

File: sm18s32.d
Inst: SH08359
Dilution Factor: 1.0

Injected: 03/18/09 at 19:52
Sample: LFBS53

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: S090772AA

| COMPOUND NAME | SPIKE LEVEL | ICV CONC UG/L | ICV REC % | Range LOWER-UPPER | INSPEC |
|-----------------------------|-------------|---------------|-----------|-------------------|--------|
| Chlorobenzene | 5.00 | 5.42 | 108 | 70-130 | YES |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.48 | 110 | 70-130 | YES |
| Ethylbenzene | 5.00 | 5.05 | 101 | 70-130 | YES |
| m+p-Xylene | 10.00 | 10.83 | 108 | 70-130 | YES |
| o-Xylene | 5.00 | 5.11 | 102 | 70-130 | YES |
| Styrene | 5.00 | 5.63 | 113 | 70-130 | YES |
| Bromoform | 5.00 | 5.75 | 115 | 70-130 | YES |
| Isopropylbenzene | 5.00 | 5.19 | 104 | 70-130 | YES |
| 1,1,2,2-Tetrachloroethane | 5.00 | 5.92 | 118 | 70-130 | YES |
| Bromobenzene | 5.00 | 5.14 | 103 | 70-130 | YES |
| 1,2,3-Trichloropropane | 5.00 | 5.49 | 110 | 70-130 | YES |
| trans-1,4-Dichloro-2-Butene | 25.00 | 29.10 | 116 | 70-130 | YES |
| n-Propylbenzene | 5.00 | 5.46 | 109 | 70-130 | YES |
| 2-Chlorotoluene | 5.00 | 5.51 | 110 | 70-130 | YES |
| 1,3,5-Trimethylbenzene | 5.00 | 5.44 | 109 | 70-130 | YES |
| 4-Chlorotoluene | 5.00 | 5.53 | 111 | 70-130 | YES |
| tert-Butylbenzene | 5.00 | 5.54 | 111 | 70-130 | YES |
| Pentachloroethane | 5.00 | 5.54 | 111 | 70-130 | YES |
| 1,2,4-Trimethylbenzene | 5.00 | 5.49 | 110 | 70-130 | YES |
| sec-Butylbenzene | 5.00 | 5.52 | 110 | 70-130 | YES |
| p-Isopropyltoluene | 5.00 | 5.87 | 117 | 70-130 | YES |
| 1,3-Dichlorobenzene | 5.00 | 5.46 | 109 | 70-130 | YES |
| 1,4-Dichlorobenzene | 5.00 | 5.38 | 108 | 70-130 | YES |
| n-Butylbenzene | 5.00 | 5.90 | 118 | 70-130 | YES |
| 1,2-Dichlorobenzene | 5.00 | 5.59 | 112 | 70-130 | YES |
| Hexachloroethane | 5.00 | 5.07 | 101 | 70-130 | YES |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 5.81 | 116 | 70-130 | YES |
| Nitrobenzene | 250.00 | 215.14 | 86 | 70-130 | YES |
| 1,2,4-Trichlorobenzene | 5.00 | 5.25 | 105 | 70-130 | YES |
| Hexachlorobutadiene | 5.00 | 4.99 | 100 | 70-130 | YES |
| Naphthalene | 5.00 | 5.29 | 106 | 70-130 | YES |
| 1,2,3-Trichlorobenzene | 5.00 | 5.14 | 103 | 70-130 | YES |

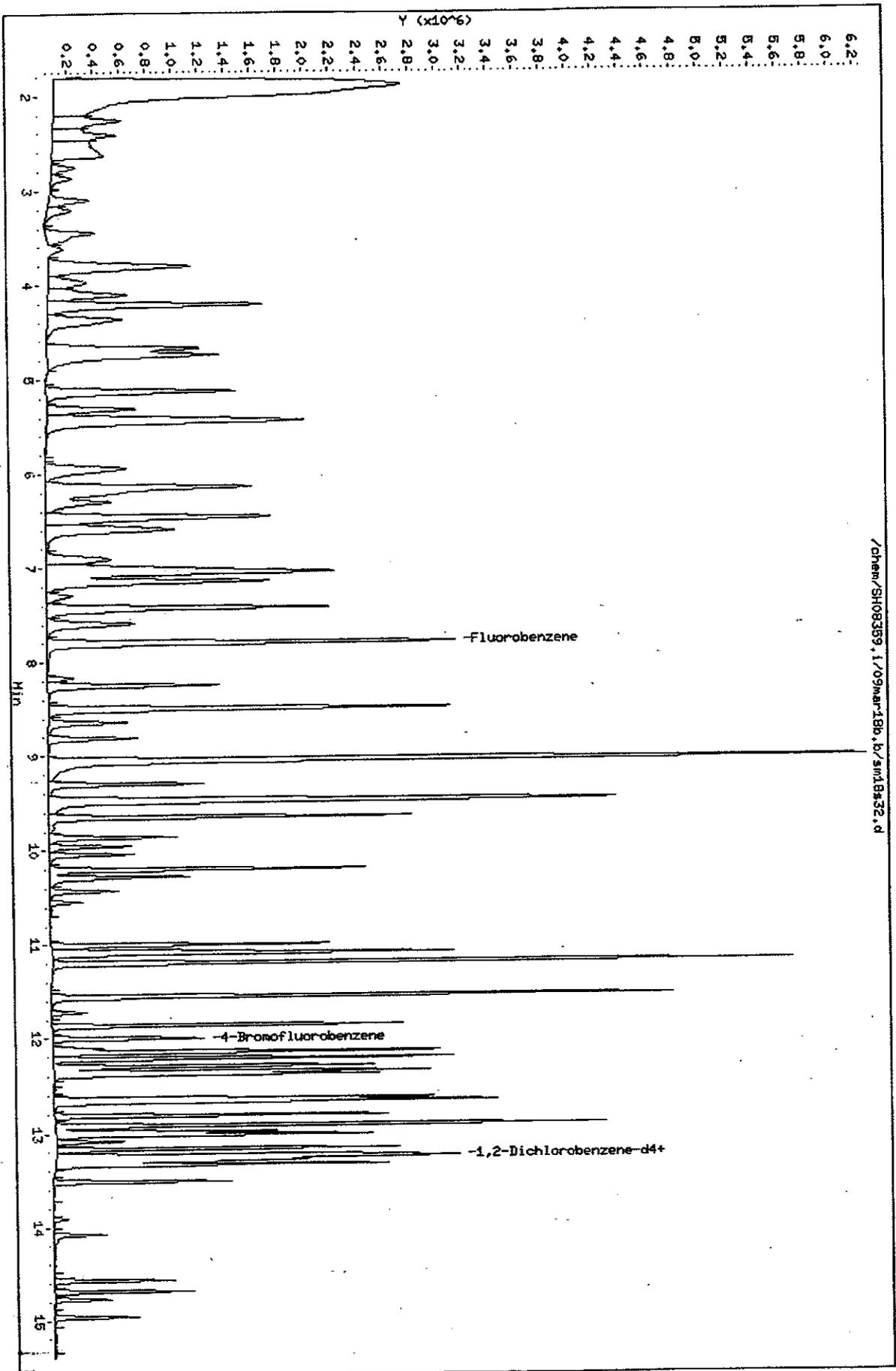
Lab Chronicle: _____ N/C = Could not calculate
 Ent. by WAT09 8195
 Ver. by _____

Data File: /chem/SH08359.1/09mar18b.b/smlB&32.d
Date: 18-MAR-2009 19:52
Client ID: LFB863
Sample Info: LFB863;LFB863;1;3;1;CS;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: LCH0151B
Column diameter: 0.25

Handwritten: LFB863
3/18/09

PAGE 01
0196



Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18s32.d
 Injection date and time: 18-MAR-2009 19:52

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 20:09 lcm01518

Sample Name: LFBS53

Lab Sample ID: LFBS53

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.137 | 85 | 229445 | 1.914 |
| 2) Chloromethane | (1) | 2.269 | 50 | 700122 | 2.044 |
| 3) Vinyl Chloride | (1) | 2.409 | 62 | 453031 | 1.848 |
| 4) Bromomethane | (1) | 2.753 | 94 | 243065 | 2.205 |
| 5) Chloroethane | (1) | 2.871 | 64 | 276457 | 2.153 |
| 6) Dichlorofluoromethane | (1) | 3.098 | 67 | 530151 | 2.080 |
| 7) Trichlorofluoromethane | (1) | 3.215 | 101 | 201279 | 1.691 |
| 8) Ethyl Ether | (1) | 3.450 | 59 | 308117 | 5.724 |
| 9) Acrolein | (1) | 3.619 | 56 | 343766 | 40.029 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 490589 | 5.321 |
| 11) Freon 113 | (1) | 3.839 | 101 | 474008 | 5.484 |
| 12) Acetone | (1) | 3.809 | 58 | 141259 | 42.114 |
| 13) Methyl Iodide | (1) | 3.985 | 142 | 886031 | 5.325 |
| 14) Carbon Disulfide | (1) | 4.110 | 76 | 1755281 | 5.761 |
| 15) Allyl Chloride | (1) | 4.213 | 39 | 1308284 | 5.232 |
| 17) Methylene Chloride | (1) | 4.374 | 84 | 443128 | 5.731 |
| 18) t-Butyl Alcohol | (1) | 4.499 | 59 | 137243 | 50.870 |
| 19) Acrylonitrile | (1) | 4.675 | 53 | 1942692 | 127.478 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741 | 96 | 531105 | 5.316 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.763 | 73 | 521257 | 5.202 |
| 22) 1,1-Dichloroethane | (1) | 5.313 | 63 | 1268536 | 5.179 |
| 24) di-Isopropyl Ether | (1) | 5.415 | 87 | 278126 | 5.400 |
| 25) Ethyl t-Butyl Ether | (1) | 5.943 | 59 | 1353756 | 5.444 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 479783 | 5.280 |
| 27) 2,2-Dichloropropane | (1) | 6.163 | 77 | 555838 | 5.429 |
| 28) 2-Butanone | (1) | 6.149 | 43 | 964404M | 42.237 |
| 29) Propionitrile | (1) | 6.229 | 54 | 570181 | 106.732 |
| 30) Methyl Acrylate | (1) | 6.303 | 55 | 1012731 | 27.528 |
| 31) Methacrylonitrile | (1) | 6.449 | 67 | 513313 | 38.212 |
| 32) Bromochloromethane | (1) | 6.479 | 128 | 156620 | 5.162 |
| 33) Tetrahydrofuran | (1) | 6.567 | 71 | 133422 | 44.427 |
| 34) Chloroform | (1) | 6.603 | 83 | 755379 | 5.436 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904 | 97 | 564537 | 5.532 |
| 36) 1-Chlorobutane | (1) | 7.058 | 49 | 66422 | 5.771 |

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18s32.d
 Injection date and time: 18-MAR-2009 19:52

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 20:09 lcm01518

Sample Name: LFBS53

Lab Sample ID: LFBS53

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.161 | 117 | 471137 | 5.685 |
| 38) 1,1-Dichloropropene | (1) | 7.146 | 75 | 670052 | 5.331 |
| 39) Benzene | (1) | 7.425 | 78 | 1772093 | 5.382 |
| 40) 1,2-Dichloroethane | (1) | 7.432 | 62 | 424526 | 5.510 |
| 41) t-Amyl Methyl Ether | (1) | 7.586 | 73 | 654859 | 5.204 |
| 42)*Fluorobenzene | (1) | 7.791 | 96 | 1460271 | 5.000 |
| 43) Trichloroethene | (1) | 8.246 | 95 | 487231 | 5.313 |
| 44) 1,2-Dichloropropane | (1) | 8.503 | 63 | 593578 | 5.181 |
| 45) Methyl Methacrylate | (1) | 8.642 | 69 | 107113 | 4.846 |
| 46) Dibromomethane | (1) | 8.635 | 93 | 153615 | 5.314 |
| 47) Bromodichloromethane | (1) | 8.811 | 83 | 435562 | 5.696 |
| 48) 2-Nitropropane | (1) | 9.053 | 46 | 220670 | 572.059 |
| 49) Chloroacetonitrile | (1) | 9.082 | 75 | 305961 | 233.602 |
| 50) cis-1,3-Dichloropropene | (1) | 9.302 | 75 | 539026 | 5.432 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.456 | 58 | 457253 | 29.749 |
| 52) 1,1-Dichloropropanone | (1) | 9.478 | 83 | 228337 | 522.190 |
| 53) Toluene | (1) | 9.654 | 92 | 1073990 | 5.380 |
| 55) trans-1,3-Dichloropropene | (1) | 9.859 | 75 | 379620 | 5.591 |
| 56) Ethyl Methacrylate | (1) | 9.955 | 69 | 240517 | 5.329 |
| 57) 1,1,2-Trichloroethane | (1) | 10.043 | 83 | 168405 | 5.774 |
| 58) Tetrachloroethene | (1) | 10.204 | 166 | 453748 | 5.399 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 336335 | 5.460 |
| 60) 2-Hexanone | (1) | 10.285 | 58 | 399066 | 28.691 |
| 61) Dibromochloromethane | (1) | 10.424 | 129 | 255175 | 5.653 |
| 62) 1,2-Dibromoethane | (1) | 10.541 | 107 | 186115 | 5.431 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 942616 | 5.415 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.069 | 131 | 309404 | 5.477 |
| 66) Ethylbenzene | (1) | 11.091 | 106 | 553956 | 5.053 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 1408953 | 10.828 |
| 68) o-Xylene | (1) | 11.546 | 106 | 638819 | 5.105 |
| 69) Styrene | (1) | 11.553 | 104 | 975185 | 5.626 |
| 71) Bromoform | (1) | 11.722 | 173 | 124429 | 5.753 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 410508 | 5.189 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.103 | 83 | 209071 | 5.922 |

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar18b.b/sm18s32.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 19:52 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 18-Mar-2009 20:09 lcm01518

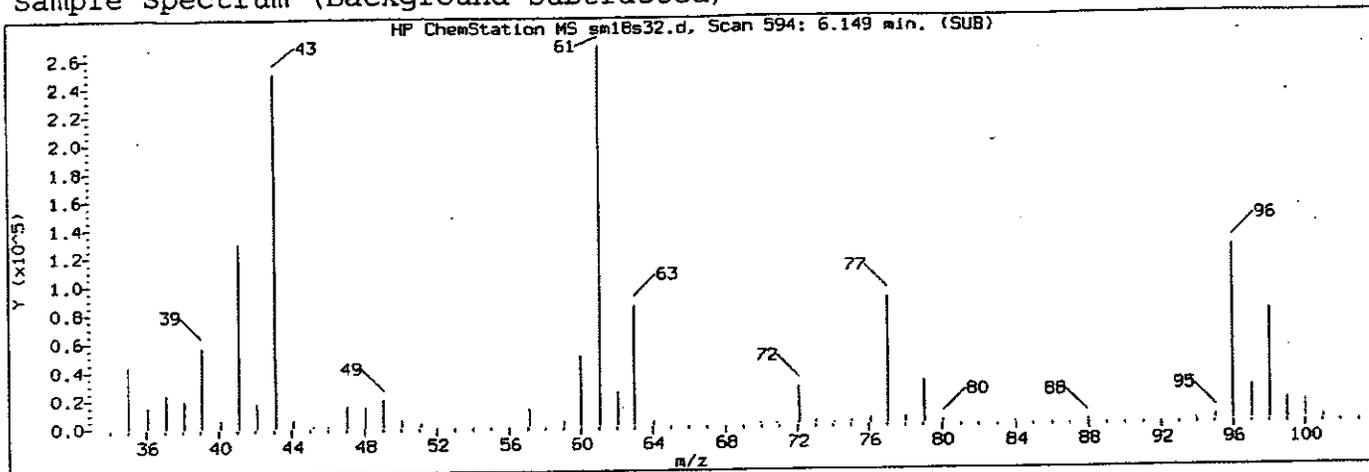
Sample Name: LFBS53

Lab Sample ID: LFBS53

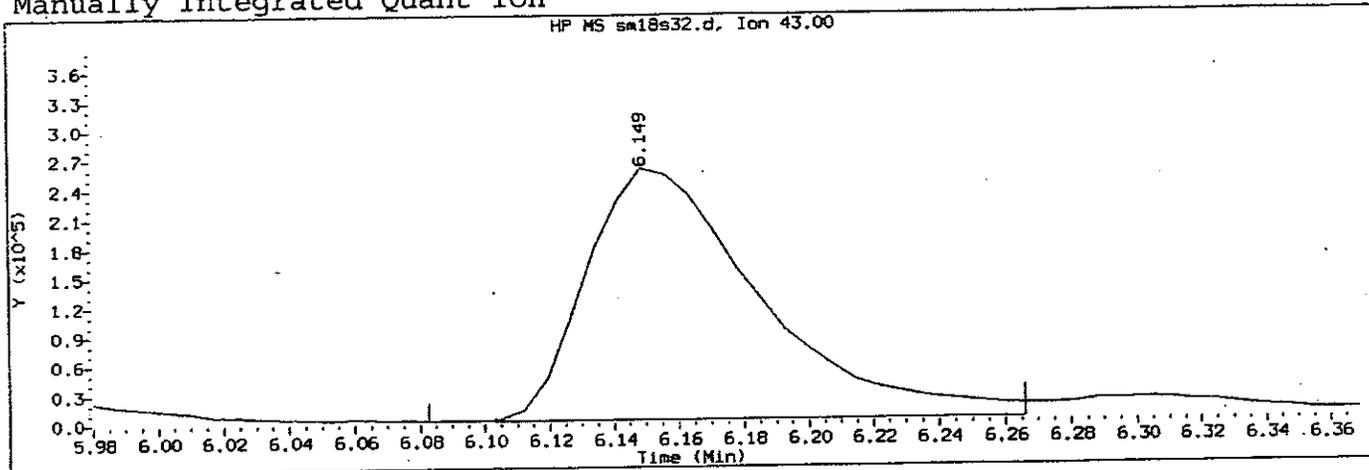
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 75) Bromobenzene | (1) | 12.133 | 156 | 327555 | 5.141 |
| 76) 1,2,3-Trichloropropane | (1) | 12.147 | 110 | 41466 | 5.486 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.147 | 53 | 362822 | 29.101 |
| 78) n-Propylbenzene | (1) | 12.213 | 120 | 430681 | 5.461 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 393027 | 5.509 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.353 | 105 | 1256442 | 5.435 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 404595 | 5.527 |
| 82) tert-Butylbenzene | (1) | 12.631 | 134 | 302958 | 5.543 |
| 83) Pentachloroethane | (1) | 12.653 | 167 | 201171 | 5.541 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.668 | 105 | 1253685 | 5.492 |
| 85) sec-Butylbenzene | (1) | 12.815 | 134 | 312889 | 5.519 |
| 86) p-Isopropyltoluene | (1) | 12.925 | 119 | 1255334 | 5.871 |
| 87) 1,3-Dichlorobenzene | (1) | 12.917 | 146 | 671385 | 5.462 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 641216 | 5.382 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 833955 | 5.899 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 511932 | 5.586 |
| 92) Hexachloroethane | (1) | 13.511 | 201 | 208131 | 5.071 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907 | 157 | 23070 | 5.814 |
| 94) Nitrobenzene | (1) | 14.076 | 77 | 172601 | 215.139 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567 | 180 | 263507 | 5.246 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 199175 | 4.994 |
| 97) Naphthalene | (1) | 14.773 | 128 | 305137 | 5.294 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.956 | 180 | 187604 | 5.143 |
| 73) \$4-Bromofluorobenzene | (1) | 12.001 | 174 | 294892 | 4.976 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 266159 | 5.068 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18s32.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 19:52 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:39
 Date, time and analyst ID of latest file update: 18-Mar-2009 20:09 lcm01518
 Sample Name: LFBS53 Lab Sample ID: LFBS53

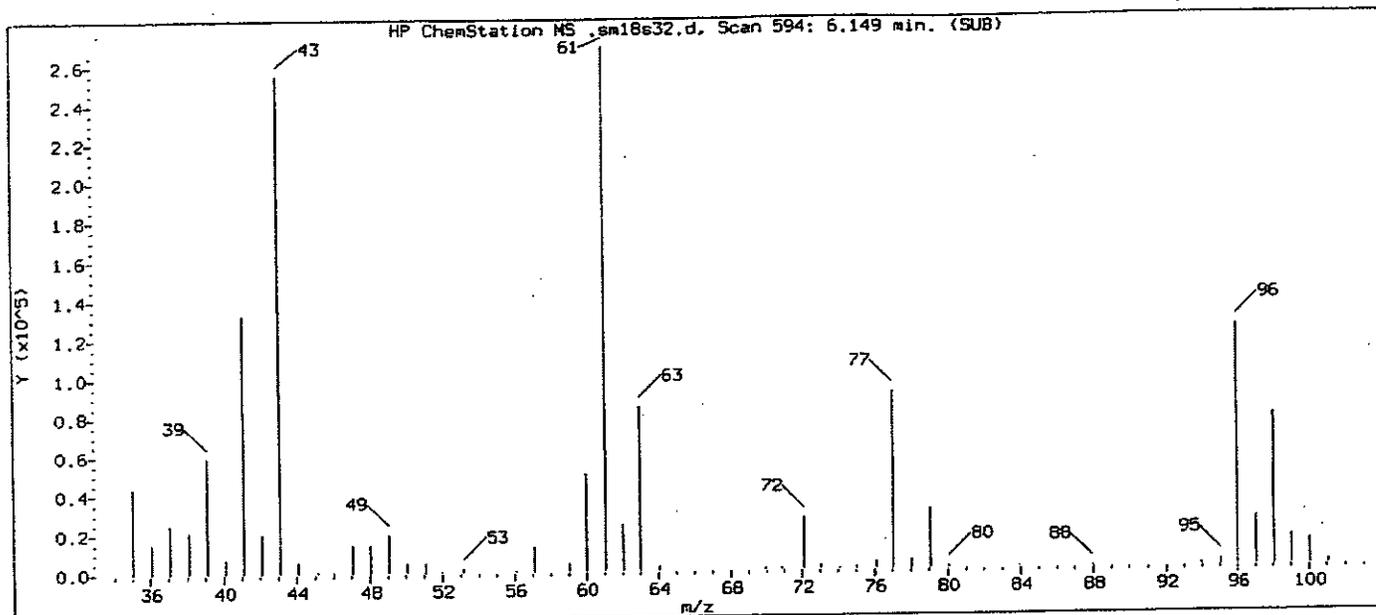
Compound Number : 28
 Compound Name : 2-Butanone
 Scan Number : 594
 Retention Time (minutes): 6.149
 Quant Ion : 43
 Area (flag) : 964404 M
 Concentration (ug/L) : 42.2365
 Integration start scan : 584 Integration stop scan: 609
 Y at integration start : 991 Y at integration end: 975

Reason for manual integration (circle one): missed peak improper integration

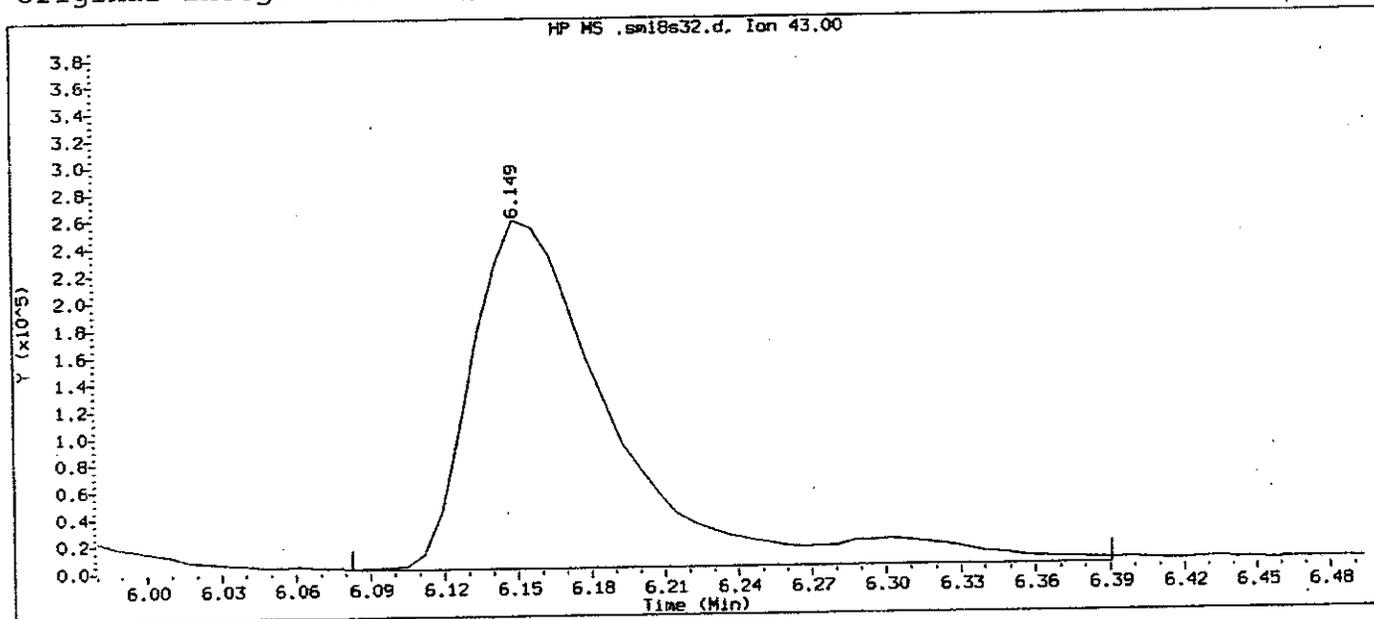
Analyst responsible for change: Wmorr 3/18/09

GC/MS audit/management approval: Adler 3/19/09 WAT09 0250

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar18b.b/sm18s32.d Instrument ID: SH08359.i
 Injection date and time: 18-MAR-2009 19:52 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar18b.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 18:39
 Date, time and analyst ID of latest file update: 18-Mar-2009 20:08 lcm01518

Sample Name: LFBS53

Lab Sample ID: LFBS53

| | | | |
|--------------------------|--------------|------------------------|-----|
| Compound Number | : 28 | | |
| Compound Name | : 2-Butanone | | |
| Scan Number | : 594 | | |
| Retention Time (minutes) | : 6.149 | | |
| Quant Ion | : 43 | | |
| Area | : 1047788 | | |
| Concentration (ug/L) | : 45.8883 | | |
| Integration start scan | : 584 | Integration stop scan: | 626 |
| Y at integration start | : 991 | Y at integration end: | 964 |

WAT89 8201

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: SH08359 Calibration Date: 03/19/09 Time: 16:20

Lab File ID: sm19c01.d Init. Calib. Date(s): 03/18/2009 03/18/2009

| COMPOUND | RRF | RRF10 | %D | CALIB METH |
|-----------------------------|--------|--------|----|------------|
| Dichlorodifluoromethane | 0.4105 | 0.4982 | 21 | AVG |
| Chloromethane | 1.1726 | 1.3996 | 19 | AVG |
| Vinyl Chloride | 0.8395 | 0.9351 | 11 | AVG |
| Bromomethane | 0.3774 | 0.4469 | 18 | AVG |
| Chloroethane | 0.4396 | 0.4894 | 11 | AVG |
| Dichlorofluoromethane | 0.8728 | 0.9774 | 12 | AVG |
| Trichlorofluoromethane | 0.4075 | 0.4751 | 17 | AVG |
| Ethyl Ether | 0.1843 | 0.2070 | 12 | AVG |
| Acrolein | 0.0294 | 0.0349 | 19 | AVG |
| 1,1-Dichloroethene | 0.3157 | 0.2955 | -6 | AVG |
| Freon 113 | 0.2959 | 0.3040 | 3 | AVG |
| Acetone | 0.0135 | 0.0130 | -4 | 2NDDEG |
| Methyl Iodide | 0.5698 | 0.5753 | 1 | AVG |
| Carbon Disulfide | 1.0432 | 1.1116 | 7 | AVG |
| Allyl Chloride | 0.8563 | 0.8991 | 5 | AVG |
| Methylene Chloride | 0.2648 | 0.2879 | 9 | AVG |
| t-Butyl Alcohol | 0.0092 | 0.0097 | 6 | AVG |
| Acrylonitrile | 0.0522 | 0.0632 | 21 | AVG |
| trans-1,2-Dichloroethene | 0.3421 | 0.3368 | -2 | AVG |
| Methyl Tertiary Butyl Ether | 0.3431 | 0.3626 | 6 | AVG |
| 1,1-Dichloroethane | 0.8387 | 0.8099 | -3 | AVG |
| di-Isopropyl Ether | 0.1763 | 0.1921 | 9 | AVG |
| Ethyl t-Butyl Ether | 0.8514 | 0.9346 | 10 | AVG |
| cis-1,2-Dichloroethene | 0.3111 | 0.3139 | 1 | AVG |
| 2,2-Dichloropropane | 0.3506 | 0.3596 | 3 | AVG |
| 2-Butanone | 0.0782 | 0.0924 | 18 | AVG |
| Propionitrile | 0.0183 | 0.0216 | 18 | AVG |
| Methyl Acrylate | 0.1260 | 0.1574 | 25 | AVG |
| Methacrylonitrile | 0.0460 | 0.0481 | 5 | AVG |
| Bromochloromethane | 0.1039 | 0.1151 | 11 | AVG |
| Tetrahydrofuran | 0.0103 | 0.0107 | 4 | AVG |
| Chloroform | 0.4758 | 0.5014 | 5 | AVG |
| 1,1,1-Trichloroethane | 0.3494 | 0.3576 | 2 | AVG |
| 1-Chlorobutane | 0.0394 | 0.0438 | 11 | AVG |
| Carbon Tetrachloride | 0.2838 | 0.3041 | 7 | AVG |
| 1,1-Dichloropropene | 0.4304 | 0.4288 | 0 | AVG |
| Benzene | 1.1273 | 1.1813 | 5 | AVG |
| 1,2-Dichloroethane | 0.2638 | 0.2821 | 7 | AVG |
| t-Amyl Methyl Ether | 0.4309 | 0.4533 | 5 | AVG |
| Trichloroethene | 0.3140 | 0.3167 | 1 | AVG |

WAT89 8282

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: SH08359 Calibration Date: 03/19/09 Time: 16:20

Lab File ID: sm19c01.d Init. Calib. Date(s): 03/18/2009 03/18/2009

| COMPOUND | RRF | RRF10 | %D | CALIB METH |
|-----------------------------|--------|--------|----|------------|
| 1,2-Dichloropropane | 0.3923 | 0.3957 | 1 | AVG |
| Methyl Methacrylate | 0.0757 | 0.0799 | 6 | AVG |
| Dibromomethane | 0.0990 | 0.1090 | 10 | AVG |
| Bromodichloromethane | 0.2618 | 0.2911 | 11 | AVG |
| 2-Nitropropane | 0.0013 | 0.0018 | 36 | AVG |
| Chloroacetonitrile | 0.0045 | 0.0051 | 13 | AVG |
| cis-1,3-Dichloropropene | 0.3397 | 0.3544 | 4 | AVG |
| 4-Methyl-2-Pentanone | 0.0526 | 0.0644 | 22 | AVG |
| 1,1-Dichloropropanone | 0.0015 | 0.0019 | 26 | AVG |
| Toluene | 0.6835 | 0.7178 | 5 | AVG |
| trans-1,3-Dichloropropene | 0.2325 | 0.2457 | 6 | AVG |
| Ethyl Methacrylate | 0.1545 | 0.1617 | 5 | AVG |
| 1,1,2-Trichloroethane | 0.0999 | 0.1127 | 13 | AVG |
| Tetrachloroethene | 0.2877 | 0.2953 | 3 | AVG |
| 1,3-Dichloropropane | 0.2109 | 0.2291 | 9 | AVG |
| 2-Hexanone | 0.0476 | 0.0585 | 23 | AVG |
| Dibromochloromethane | 0.1546 | 0.1719 | 11 | AVG |
| 1,2-Dibromoethane | 0.1173 | 0.1225 | 4 | AVG |
| Chlorobenzene | 0.5960 | 0.6206 | 4 | AVG |
| 1,1,1,2-Tetrachloroethane | 0.1934 | 0.2092 | 8 | AVG |
| Ethylbenzene | 0.3753 | 0.3677 | -2 | AVG |
| m+p-Xylene | 0.4456 | 0.4617 | 4 | AVG |
| o-Xylene | 0.4285 | 0.4242 | -1 | AVG |
| Styrene | 0.5935 | 0.6565 | 11 | AVG |
| Bromoform | 0.0741 | 0.0840 | 13 | AVG |
| Isopropylbenzene | 0.2709 | 0.2735 | 1 | AVG |
| 1,1,2,2-Tetrachloroethane | 0.1209 | 0.1420 | 17 | AVG |
| Bromobenzene | 0.2181 | 0.2287 | 5 | AVG |
| 1,2,3-Trichloropropane | 0.0259 | 0.0284 | 10 | AVG |
| trans-1,4-Dichloro-2-Butene | 0.0427 | 0.0550 | 29 | AVG |
| n-Propylbenzene | 0.2700 | 0.2896 | 7 | AVG |
| 2-Chlorotoluene | 0.2443 | 0.2626 | 7 | AVG |
| 1,3,5-Trimethylbenzene | 0.7915 | 0.8291 | 5 | AVG |
| 4-Chlorotoluene | 0.2507 | 0.2698 | 8 | AVG |
| tert-Butylbenzene | 0.1871 | 0.1998 | 7 | AVG |
| Pentachloroethane | 0.1243 | 0.1448 | 17 | AVG |
| 1,2,4-Trimethylbenzene | 0.7816 | 0.8270 | 6 | AVG |
| sec-Butylbenzene | 0.1941 | 0.2092 | 8 | AVG |
| p-Isopropyltoluene | 0.7321 | 0.8432 | 15 | AVG |
| 1,3-Dichlorobenzene | 0.4209 | 0.4430 | 5 | AVG |

WAT09 8203

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: SH08359 Calibration Date: 03/19/09 Time: 16:20

Lab File ID: sm19c01.d Init. Calib. Date(s): 03/18/2009 03/18/2009

| COMPOUND | RRF | RRF10 | %D | CALIB METH |
|-----------------------------|--------|--------|----|---------------|
| 1,4-Dichlorobenzene | 0.4079 | 0.4294 | 5 | AVG |
| n-Butylbenzene | 0.4841 | 0.5583 | 15 | AVG |
| 1,2-Dichlorobenzene | 0.3138 | 0.3406 | 9 | AVG |
| Hexachloroethane | 0.1405 | 0.1593 | 13 | AVG |
| 1,2-Dibromo-3-Chloropropane | 0.0136 | 0.0165 | 21 | AVG |
| Nitrobenzene | 0.0027 | 0.0034 | 24 | AVG |
| 1,2,4-Trichlorobenzene | 0.1720 | 0.1911 | 11 | AVG |
| Hexachlorobutadiene | 0.1366 | 0.1304 | -5 | AVG |
| Naphthalene | 0.1973 | 0.2167 | 10 | AVG |
| 1,2,3-Trichlorobenzene | 0.1249 | 0.1306 | 5 | AVG |
| 4-Bromofluorobenzene | 0.2029 | 0.2142 | 6 | AVG |
| 1,2-Dichlorobenzene-d4 | 0.1798 | 0.2011 | 12 | AVG |

Average %Difference 10

WAT89 8284

File: sm19c01.d Injected: 03/19/09
 Inst: SH08359 Sample: VSTD010

Method: EPA 524.2 REV 4
 Matrix/level: W/L

| COMPOUND NAME | CONCENTRATION SPIKED (UG/L) | CONCENTRATION MEASURED (UG/L) | % RECOVERY | IN SPEC |
|-----------------------------|--------------------------------|----------------------------------|---------------|------------|
| Dichlorodifluoromethane | 10.000 | 12.136 | 121 | YES |
| Chloromethane | 10.000 | 11.936 | 119 | YES |
| Vinyl Chloride | 10.000 | 11.140 | 111 | YES |
| Bromomethane | 10.000 | 11.842 | 118 | YES |
| Chloroethane | 10.000 | 11.134 | 111 | YES |
| Dichlorofluoromethane | 10.000 | 11.197 | 112 | YES |
| Trichlorofluoromethane | 10.000 | 11.658 | 117 | YES |
| Ethyl Ether | 10.000 | 11.233 | 112 | YES |
| Acrolein | 500.000 | 593.603 | 119 | YES |
| 1,1-Dichloroethene | 10.000 | 9.360 | 94 | YES |
| Freon 113 | 10.000 | 10.273 | 103 | YES |
| Acetone | 100.000 | 114.127 | 114 | YES |
| Methyl Iodide | 10.000 | 10.097 | 101 | YES |
| Carbon Disulfide | 10.000 | 10.656 | 107 | YES |
| Allyl Chloride | 10.000 | 10.501 | 105 | YES |
| Methylene Chloride | 10.000 | 10.872 | 109 | YES |
| t-Butyl Alcohol | 200.000 | 210.873 | 105 | YES |
| Acrylonitrile | 124.800 | 151.100 | 121 | YES |
| trans-1,2-Dichloroethene | 10.000 | 9.845 | 98 | YES |
| Methyl Tertiary Butyl Ether | 10.000 | 10.569 | 106 | YES |
| 1,1-Dichloroethane | 10.000 | 9.656 | 97 | YES |
| di-Isopropyl Ether | 10.000 | 10.894 | 109 | YES |
| Ethyl t-Butyl Ether | 10.000 | 10.978 | 110 | YES |
| cis-1,2-Dichloroethene | 10.000 | 10.090 | 101 | YES |
| 2,2-Dichloropropane | 10.000 | 10.258 | 103 | YES |
| 2-Butanone | 100.000 | 118.126 | 118 | YES |
| Propionitrile | 200.000 | 235.680 | 118 | YES |
| Methyl Acrylate | 50.000 | 62.463 | 125 | YES |
| Methacrylonitrile | 100.000 | 104.682 | 105 | YES |
| Bromochloromethane | 10.000 | 11.082 | 111 | YES |
| Tetrahydrofuran | 140.000 | 145.584 | 104 | YES |
| Chloroform | 10.000 | 10.536 | 105 | YES |
| 1,1,1-Trichloroethane | 10.000 | 10.235 | 102 | YES |
| 1-Chlorobutane | 10.000 | 11.106 | 111 | YES |
| Carbon Tetrachloride | 10.000 | 10.716 | 107 | YES |
| 1,1-Dichloropropene | 10.000 | 9.962 | 100 | YES |
| Benzene | 10.000 | 10.479 | 105 | YES |
| 1,2-Dichloroethane | 10.000 | 10.694 | 107 | YES |
| t-Amyl Methyl Ether | 10.000 | 10.519 | 105 | YES |

Lancaster Laboratories
 GC/MS Volatiles Method 524.2 Check Sample Summary

File: sm19c01.d Injected: 03/19/09 Method: EPA 524.2 REV 4
 Inst: SH08359 Sample: VSTD010 Matrix/level: W/L

| COMPOUND NAME | CONCENTRATION SPIKED (UG/L) | CONCENTRATION MEASURED (UG/L) | % RECOVERY | IN SPEC |
|-----------------------------|-----------------------------|-------------------------------|------------|---------|
| Trichloroethene | 10.000 | 10.085 | 101 | YES |
| 1,2-Dichloropropane | 10.000 | 10.088 | 101 | YES |
| Methyl Methacrylate | 10.000 | 10.564 | 106 | YES |
| Dibromomethane | 10.000 | 11.016 | 110 | YES |
| Bromodichloromethane | 10.000 | 11.119 | 111 | YES |
| 2-Nitropropane | 1050.00 | 1401.46 | 133 | NO |
| Chloroacetonitrile | 500.000 | 568.440 | 114 | YES |
| cis-1,3-Dichloropropene | 10.000 | 10.431 | 104 | YES |
| 4-Methyl-2-Pentanone | 100.000 | 122.285 | 122 | YES |
| 1,1-Dichloropropanone | 1000.00 | 1266.28 | 127 | YES |
| Toluene | 10.000 | 10.502 | 105 | YES |
| trans-1,3-Dichloropropene | 10.000 | 10.566 | 106 | YES |
| Ethyl Methacrylate | 10.000 | 10.466 | 105 | YES |
| 1,1,2-Trichloroethane | 10.000 | 11.286 | 113 | YES |
| Tetrachloroethene | 10.000 | 10.261 | 103 | YES |
| 1,3-Dichloropropane | 10.000 | 10.861 | 109 | YES |
| 2-Hexanone | 100.000 | 122.796 | 123 | YES |
| Dibromochloromethane | 10.000 | 11.121 | 111 | YES |
| 1,2-Dibromoethane | 10.000 | 10.442 | 104 | YES |
| Chlorobenzene | 10.000 | 10.413 | 104 | YES |
| 1,1,1,2-Tetrachloroethane | 10.000 | 10.817 | 108 | YES |
| Ethylbenzene | 10.000 | 9.796 | 98 | YES |
| m+p-Xylene | 20.000 | 20.726 | 104 | YES |
| o-Xylene | 10.000 | 9.900 | 99 | YES |
| Styrene | 10.000 | 11.062 | 111 | YES |
| Bromoform | 10.000 | 11.338 | 113 | YES |
| Isopropylbenzene | 10.000 | 10.095 | 101 | YES |
| 1,1,2,2-Tetrachloroethane | 10.000 | 11.748 | 117 | YES |
| Bromobenzene | 10.000 | 10.486 | 105 | YES |
| 1,2,3-Trichloropropane | 10.000 | 10.983 | 110 | YES |
| trans-1,4-Dichloro-2-Butene | 100.000 | 128.842 | 129 | YES |
| n-Propylbenzene | 10.000 | 10.726 | 107 | YES |
| 2-Chlorotoluene | 10.000 | 10.749 | 107 | YES |
| 1,3,5-Trimethylbenzene | 10.000 | 10.475 | 105 | YES |
| 4-Chlorotoluene | 10.000 | 10.763 | 108 | YES |
| tert-Butylbenzene | 10.000 | 10.679 | 107 | YES |
| Pentachloroethane | 10.000 | 11.649 | 116 | YES |
| 1,2,4-Trimethylbenzene | 10.000 | 10.581 | 106 | YES |
| sec-Butylbenzene | 10.000 | 10.778 | 108 | YES |

Lancaster Laboratories
 GC/MS Volatiles Method 524.2 Check Sample Summary

File: sm19c01.d Injected: 03/19/09 Method: EPA 524.2 REV 4
 Inst: SH08359 Sample: VSTD010 Matrix/level: W/L

| COMPOUND NAME | CONCENTRATION SPIKED (UG/L) | CONCENTRATION MEASURED (UG/L) | % RECOVERY | IN SPEC |
|-----------------------------|-----------------------------|-------------------------------|------------|---------|
| p-Isopropyltoluene | 10.000 | 11.518 | 115 | YES |
| 1,3-Dichlorobenzene | 10.000 | 10.526 | 105 | YES |
| 1,4-Dichlorobenzene | 10.000 | 10.526 | 105 | YES |
| n-Butylbenzene | 10.000 | 11.533 | 115 | YES |
| 1,2-Dichlorobenzene | 10.000 | 10.854 | 109 | YES |
| Hexachloroethane | 10.000 | 11.337 | 113 | YES |
| 1,2-Dibromo-3-Chloropropane | 10.000 | 12.141 | 121 | YES |
| Nitrobenzene | 200.000 | 244.190 | 122 | YES |
| 1,2,4-Trichlorobenzene | 10.000 | 11.111 | 111 | YES |
| Hexachlorobutadiene | 10.000 | 9.551 | 96 | YES |
| Naphthalene | 10.000 | 10.981 | 110 | YES |
| 1,2,3-Trichlorobenzene | 10.000 | 10.453 | 105 | YES |
| 4-Bromofluorobenzene | 5.000 | 5.279 | 106 | YES |
| 1,2-Dichlorobenzene-d4 | 5.000 | 5.591 | 112 | YES |

EPA Method 524

Continuing Calibration Internal/Surrogate Standard Check

Initial Calibration Standards:

** /chem/SH08359.i/09mar18b.b/sm18i01.d VSTD025
 ** /chem/SH08359.i/09mar18b.b/sm18i02.d VSTD010
 /chem/SH08359.i/09mar18b.b/sm18i03.d VSTD005
 /chem/SH08359.i/09mar18b.b/sm18i04.d VSTD0.5

** File is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/SH08359.i/09mar19a.b/sm19c01.d

RT Summary

File ID:

=====

| Internal/Surrogate Standard Name | sm19c01.d | ICAL RT | In Spec |
|-------------------------------------|-----------|---------|---------|
| Fluorobenzene | 7.784 | 7.784 | Yes |
| 4-Bromofluorobenzene | 11.993 | 11.993 | Yes |
| 1,2-Dichlorobenzene-d4 | 13.277 | 13.277 | Yes |

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

File ID:

=====

| Internal/Surrogate Standard Name | sm19c01.d | ICAL Area | Low Limit | High Limit | In Spec |
|-------------------------------------|-----------|-----------|-----------|------------|---------|
| Fluorobenzene | 1385767 | 1849293 | 924646 | 3698586 | Yes |
| 4-Bromofluorobenzene | 296871 | 374528 | 187264 | 749056 | Yes |
| 1,2-Dichlorobenzene-d4 | 278644 | 326427 | 163214 | 652854 | Yes |

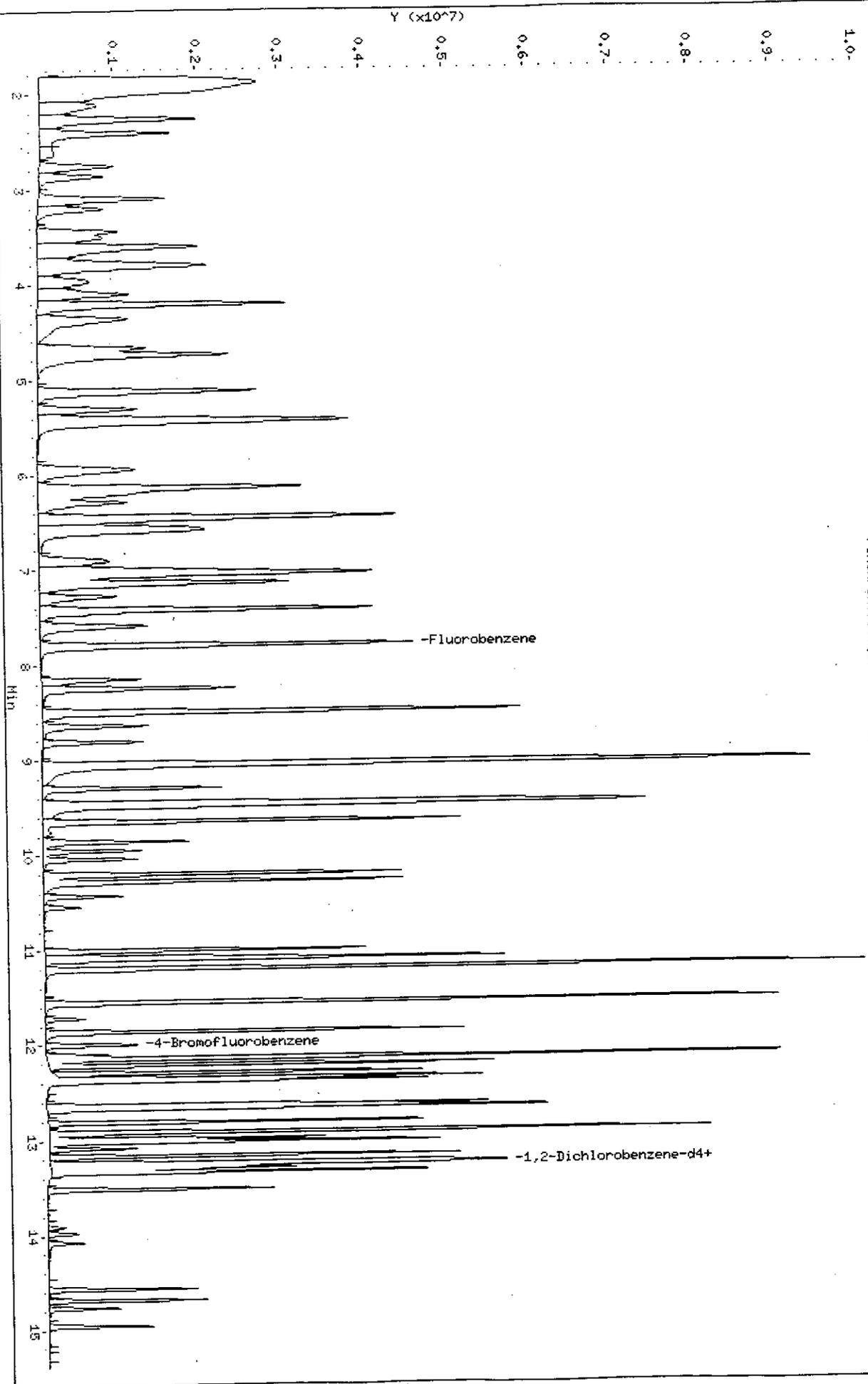
A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

Data File: /chem/SH03359.1/09mar19a,b/sml9col.d
Date: 19-MAR-2009 16:20
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;2;??;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH03359.i
Operator: LCM01518
Column diameter: 0.25

/chem/SH03359.1/09mar19a,b/sml9col.d



WMM
2/19/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d
 Injection date and time: 19-MAR-2009 16:20

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 19-Mar-2009 17:13 lcm01518

Sample Name: VSTD010

Lab Sample ID: VSTD010

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|----------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.130 | 85 | 1380753 | 12.136 |
| 2) Chloromethane | (1) | 2.277 | 50 | 3879037 | 11.935 |
| 3) Vinyl Chloride | (1) | 2.409 | 62 | 2591723 | 11.140 |
| 4) Bromomethane | (1) | 2.761 | 94 | 1238687 | 11.842 |
| 5) Chloroethane | (1) | 2.863 | 64 | 1356475 | 11.134 |
| 6) Dichlorofluoromethane | (1) | 3.098 | 67 | 2708761 | 11.197 |
| 7) Trichlorofluoromethane | (1) | 3.201 | 101 | 1316679M | 11.658 |
| 8) Ethyl Ether | (1) | 3.443 | 59 | 573791 | 11.233 |
| 9) Acrolein | (1) | 3.604 | 56 | 4837676 | 593.603 |
| 10) 1,1-Dichloroethene | (1) | 3.795 | 96 | 818902 | 9.360 |
| 11) Freon 113 | (1) | 3.831 | 101 | 842563 | 10.273 |
| 12) Acetone | (1) | 3.787 | 58 | 359788 | 114.127 |
| 13) Methyl Iodide | (1) | 3.985 | 142 | 1594473 | 10.097 |
| 14) Carbon Disulfide | (1) | 4.103 | 76 | 3080726 | 10.656 |
| 15) Allyl Chloride | (1) | 4.213 | 39 | 2491931 | 10.501 |
| 17) Methylene Chloride | (1) | 4.367 | 84 | 797805 | 10.872 |
| 18) t-Butyl Alcohol | (1) | 4.499 | 59 | 539891 | 210.873 |
| 19) Acrylonitrile | (1) | 4.667 | 53 | 2185198 | 151.100 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741 | 96 | 933383 | 9.845 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.763 | 73 | 1004927 | 10.569 |
| 22) 1,1-Dichloroethane | (1) | 5.305 | 63 | 2244695 | 9.656 |
| 24) di-Isopropyl Ether | (1) | 5.415 | 87 | 532404 | 10.894 |
| 25) Ethyl t-Butyl Ether | (1) | 5.943 | 59 | 2590340M | 10.978 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 870010 | 10.090 |
| 27) 2,2-Dichloropropane | (1) | 6.149 | 77 | 996673 | 10.258 |
| 28) 2-Butanone | (1) | 6.141 | 43 | 2559603 | 118.126 |
| 29) Propionitrile | (1) | 6.215 | 54 | 1194803 | 235.680 |
| 30) Methyl Acrylate | (1) | 6.295 | 55 | 2180685 | 62.463 |
| 31) Methacrylonitrile | (1) | 6.449 | 67 | 1334470 | 104.682 |
| 32) Bromochloromethane | (1) | 6.479 | 128 | 319056 | 11.082 |
| 33) Tetrahydrofuran | (1) | 6.559 | 71 | 414907 | 145.584 |
| 34) Chloroform | (1) | 6.596 | 83 | 1389514 | 10.536 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904 | 97 | 991219 | 10.235 |
| 36) 1-Chlorobutane | (1) | 7.051 | 49 | 121299 | 11.106 |

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d
 Injection date and time: 19-MAR-2009 16:20

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 19-Mar-2009 17:13 lcm01518

Sample Name: VSTD010

Lab Sample ID: VSTD010

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.153 | 117 | 842805 | 10.716 |
| 38) 1,1-Dichloropropene | (1) | 7.139 | 75 | 1188294 | 9.962 |
| 39) Benzene | (1) | 7.425 | 78 | 3274043 | 10.479 |
| 40) 1,2-Dichloroethane | (1) | 7.432 | 62 | 781872 | 10.694 |
| 41) t-Amyl Methyl Ether | (1) | 7.586 | 73 | 1256256 | 10.519 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1385767 | 5.000 |
| 43) Trichloroethene | (1) | 8.246 | 95 | 877724M | 10.085 |
| 44) 1,2-Dichloropropane | (1) | 8.503 | 63 | 1096721 | 10.088 |
| 45) Methyl Methacrylate | (1) | 8.635 | 69 | 221571 | 10.564 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 302204 | 11.016 |
| 47) Bromodichloromethane | (1) | 8.811 | 83 | 806879 | 11.119 |
| 48) 2-Nitropropane | (1) | 9.053 | 46 | 513028 | 1401.465 |
| 49) Chloroacetonitrile | (1) | 9.075 | 75 | 706531 | 568.440 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295 | 75 | 982158M | 10.431 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.456 | 58 | 1783639 | 122.285 |
| 52) 1,1-Dichloropropanone | (1) | 9.478 | 83 | 525454 | 1266.280 |
| 53) Toluene | (1) | 9.654 | 92 | 1989531 | 10.502 |
| 55) trans-1,3-Dichloropropene | (1) | 9.859 | 75 | 680863 | 10.566 |
| 56) Ethyl Methacrylate | (1) | 9.947 | 69 | 448280 | 10.466 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035 | 83 | 312394 | 11.286 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 818315 | 10.261 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 634954 | 10.861 |
| 60) 2-Hexanone | (1) | 10.277 | 58 | 1620834 | 122.796 |
| 61) Dibromochloromethane | (1) | 10.424 | 129 | 476424 | 11.121 |
| 62) 1,2-Dibromoethane | (1) | 10.541 | 107 | 339579 | 10.442 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 1719980 | 10.413 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 579878 | 10.817 |
| 66) Ethylbenzene | (1) | 11.091 | 106 | 1018997 | 9.796 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 2559450 | 20.726 |
| 68) o-Xylene | (1) | 11.546 | 106 | 1175572 | 9.900 |
| 69) Styrene | (1) | 11.553 | 104 | 1819649 | 11.062 |
| 71) Bromoform | (1) | 11.722 | 173 | 232705 | 11.338 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 757937 | 10.095 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 393572 | 11.748 |

M = Compound was manually integrated.

* = Compound is an internal standard.

WAT89 821E

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d
 Injection date and time: 19-MAR-2009 16:20

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 19-Mar-2009 17:13 lcm01518

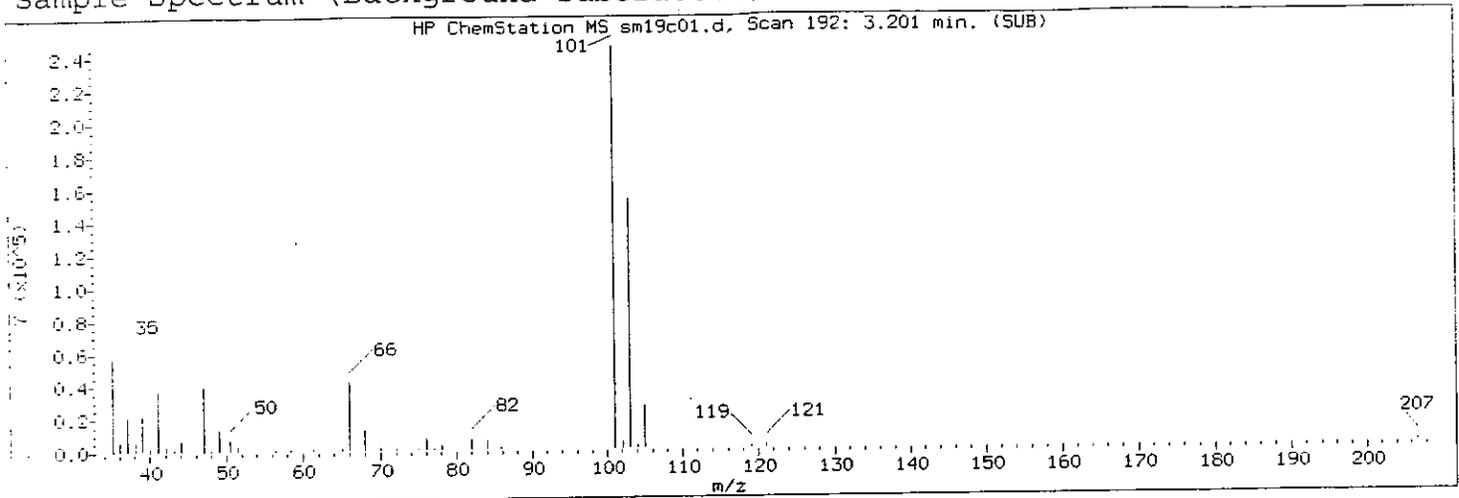
Sample Name: VSTD010

Lab Sample ID: VSTD010

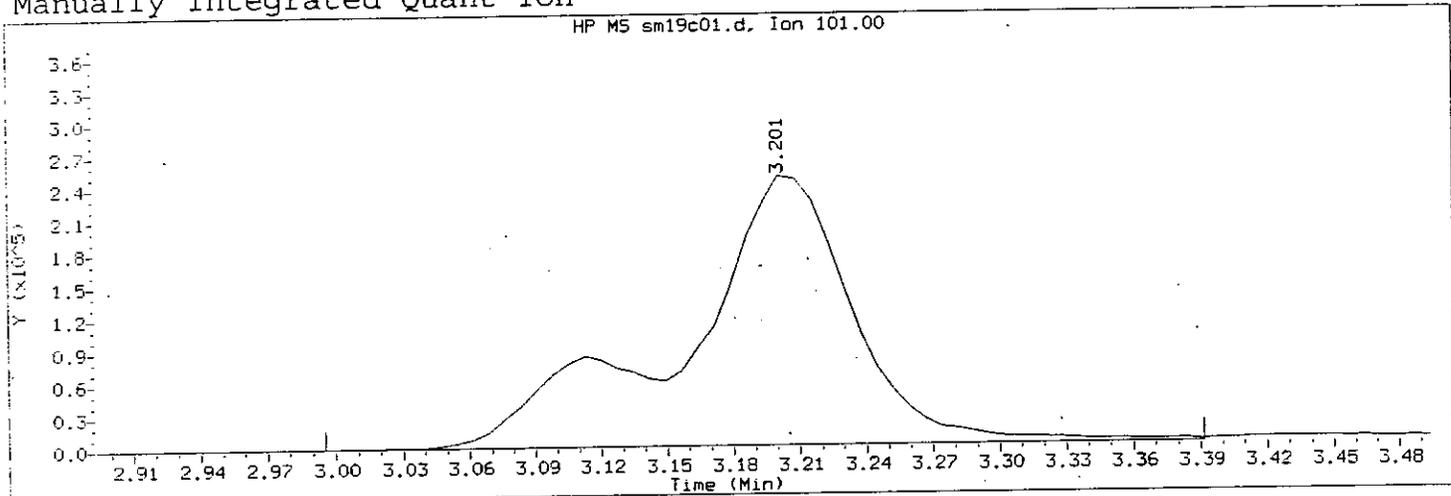
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 75) Bromobenzene | (1) | 12.133 | 156 | 633980 | 10.486 |
| 76) 1,2,3-Trichloropropane | (1) | 12.147 | 110 | 78781 | 10.983 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.147 | 53 | 1524420 | 128.842 |
| 78) n-Propylbenzene | (1) | 12.213 | 120 | 802759 | 10.726 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 727774 | 10.749 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.353 | 105 | 2297811 | 10.475 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 747773 | 10.763 |
| 82) tert-Butylbenzene | (1) | 12.631 | 134 | 553851 | 10.679 |
| 83) Pentachloroethane | (1) | 12.653 | 167 | 401373 | 11.649 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.668 | 105 | 2291987 | 10.581 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 579906 | 10.778 |
| 86) p-Isopropyltoluene | (1) | 12.917 | 119 | 2336991 | 11.518 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 1227820 | 10.526 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 1190076 | 10.526 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 1547275 | 11.533 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 943908 | 10.854 |
| 92) Hexachloroethane | (1) | 13.511 | 201 | 441572 | 11.337 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907 | 157 | 45720 | 12.141 |
| 94) Nitrobenzene | (1) | 14.069 | 77 | 185913 | 244.190 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567 | 180 | 529662 | 11.111 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 361498 | 9.551 |
| 97) Naphthalene | (1) | 14.773 | 128 | 600587 | 10.981 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.956 | 180 | 361859 | 10.453 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 296871 | 5.279 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 278644 | 5.591 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 16:20 Analyst ID: LCM01518
 Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 19-Mar-2009 17:13 lcm01518
 Sample Name: VSTD010 Lab Sample ID: VSTD010

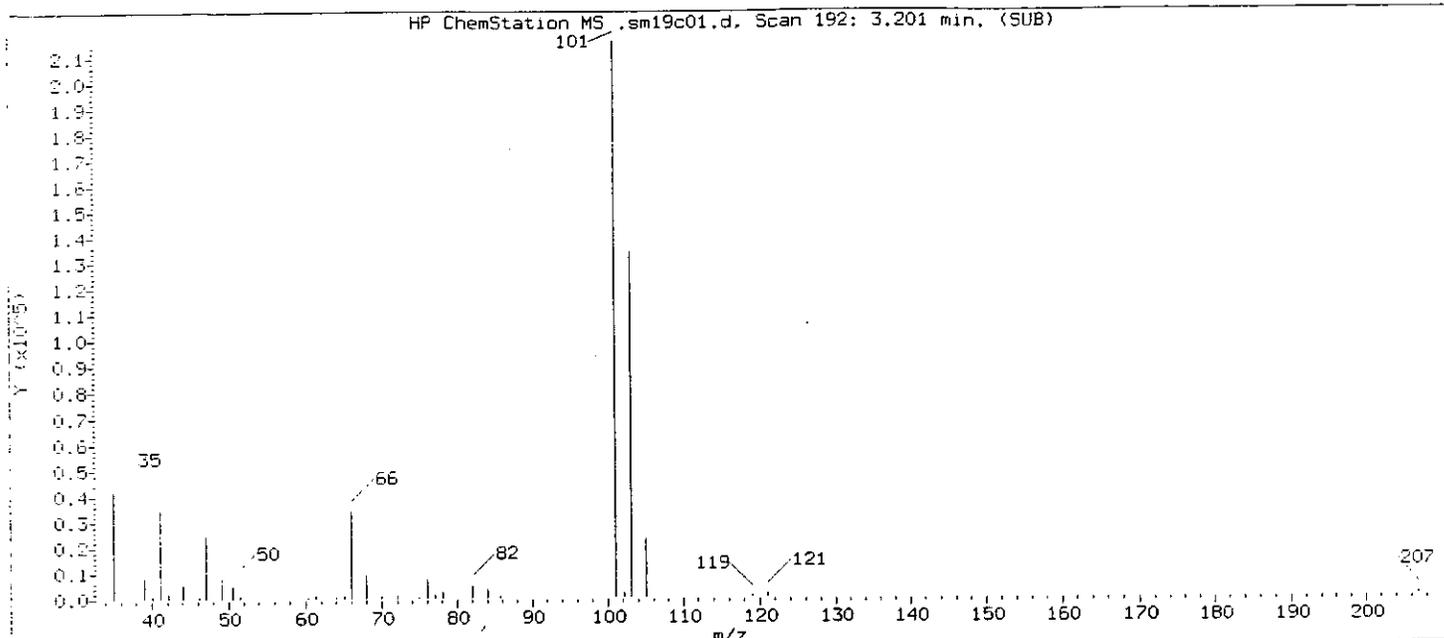
Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 192
 Retention Time (minutes): 3.201
 Quant Ion : 101
 Area (flag) : 1316679 M
 Concentration (ug/L) : 11.6576
 Integration start scan : 163 Integration stop scan: 217
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

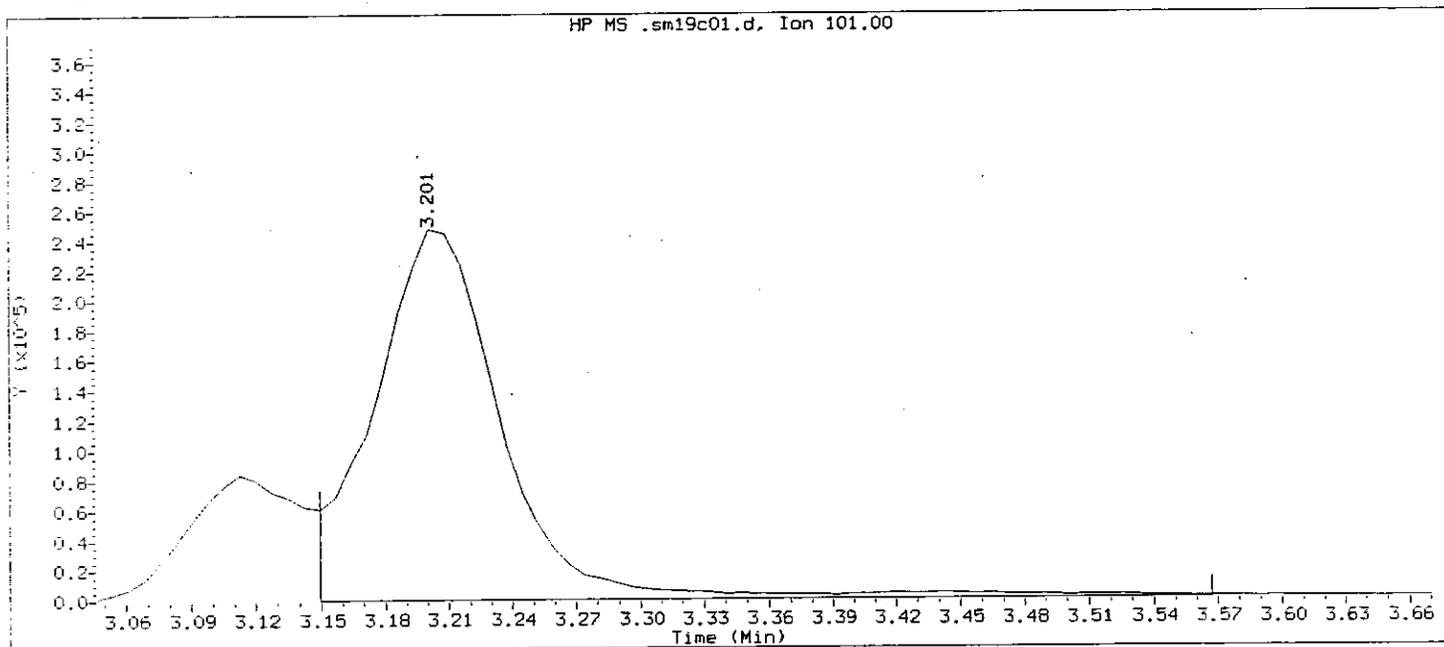
Analyst responsible for change: LCM01518

GC/MS audit/management approval: [Signature] 3/23/09 WATERS 8213

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 16:20 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 16:45 Automation

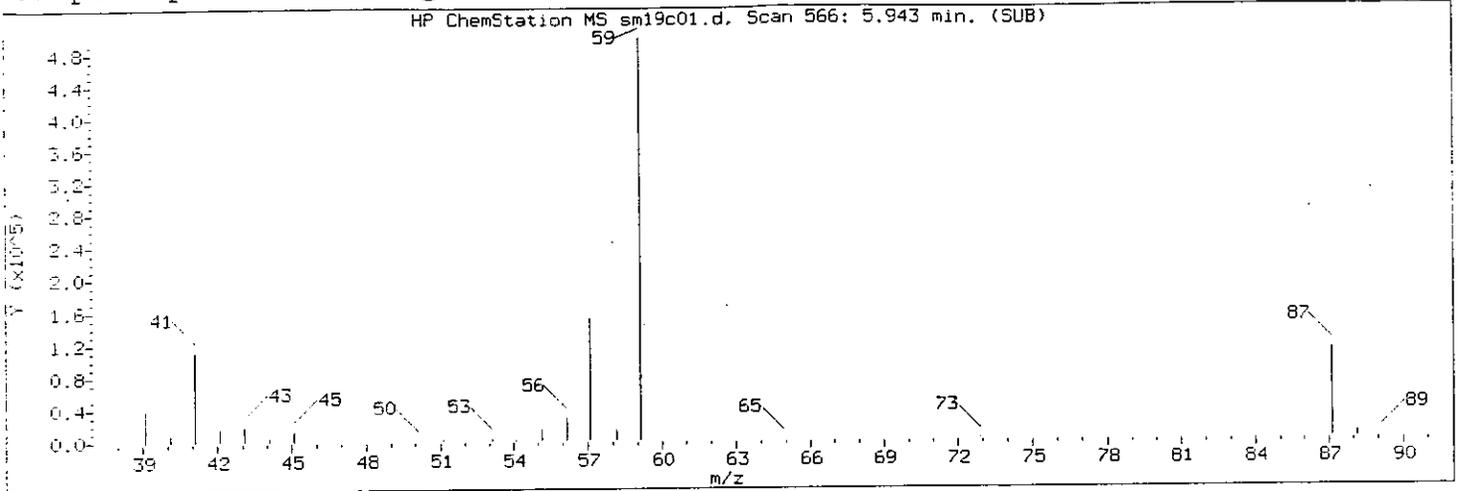
Sample Name: VSTD010

Lab Sample ID: VSTD010

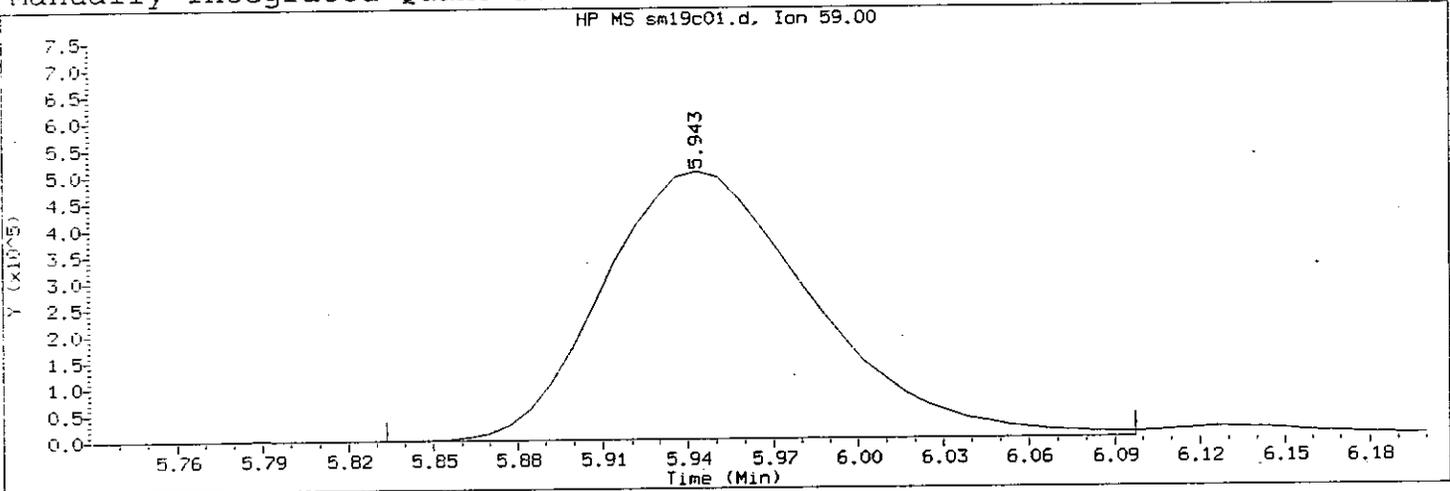
Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 192
Retention Time (minutes): 3.201
Quant Ion : 101
Area : 1038341
Concentration (ug/L) : 9.1932
Integration start scan : 184 Integration stop scan: 241
Y at integration start : 0 Y at integration end: 0

WATER 8214

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 16:20 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 19-Mar-2009 17:13 lcm01518

Sample Name: VSTD010

Lab Sample ID: VSTD010

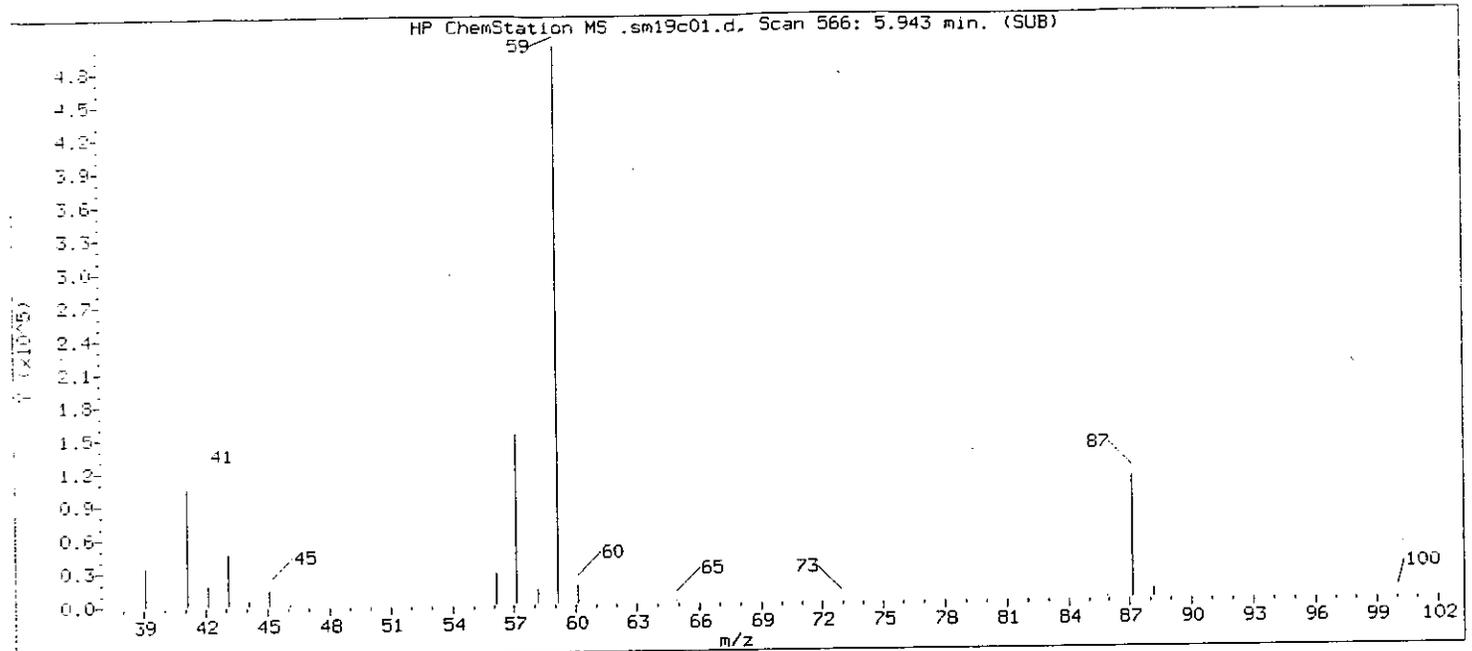
Compound Number : 25
 Compound Name : Ethyl t-Butyl Ether
 Scan Number : 566
 Retention Time (minutes): 5.943
 Quant Ion : 59
 Area (flag) : 2590340 M
 Concentration (ug/L) : 10.9775
 Integration start scan : 550 Integration stop scan: 586
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

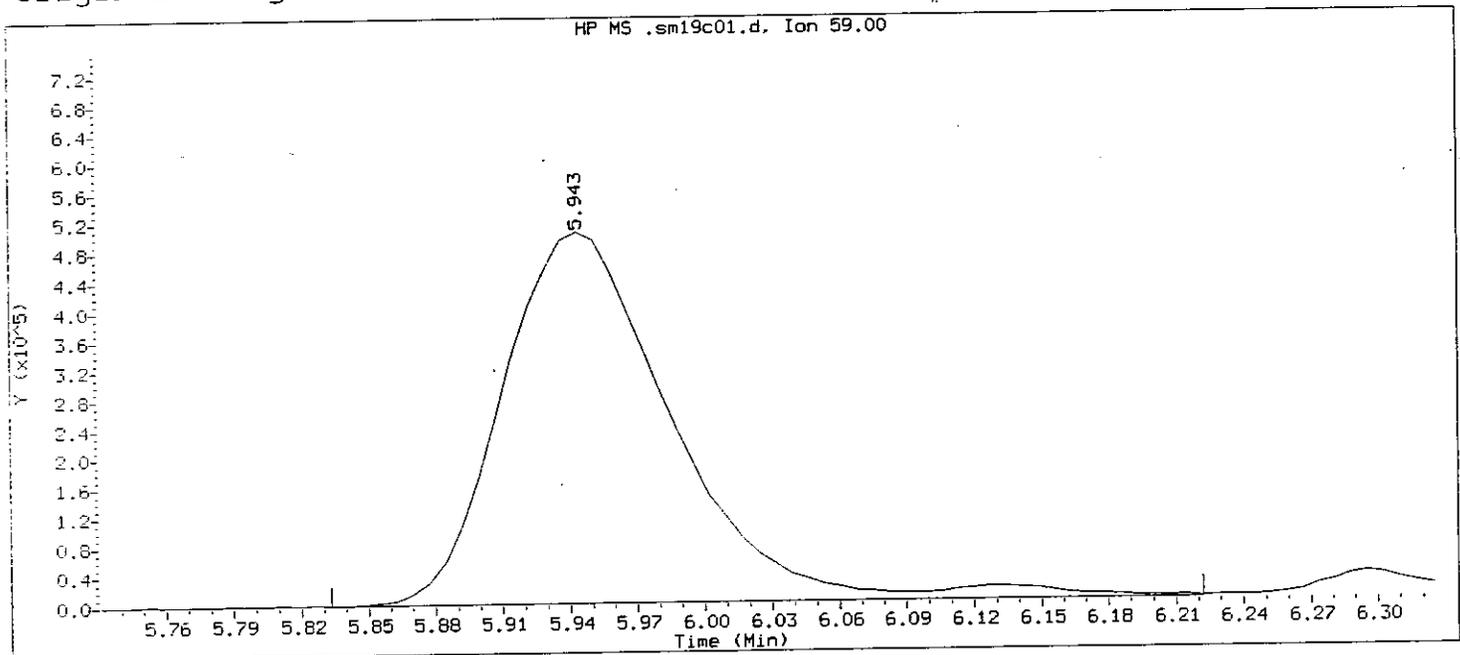
Analyst responsible for change: LCM01518 3/19/09

GC/MS audit/management approval: MM 3/23/09 WAT09 8215

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 16:20 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 19-Mar-2009 16:45 Automation

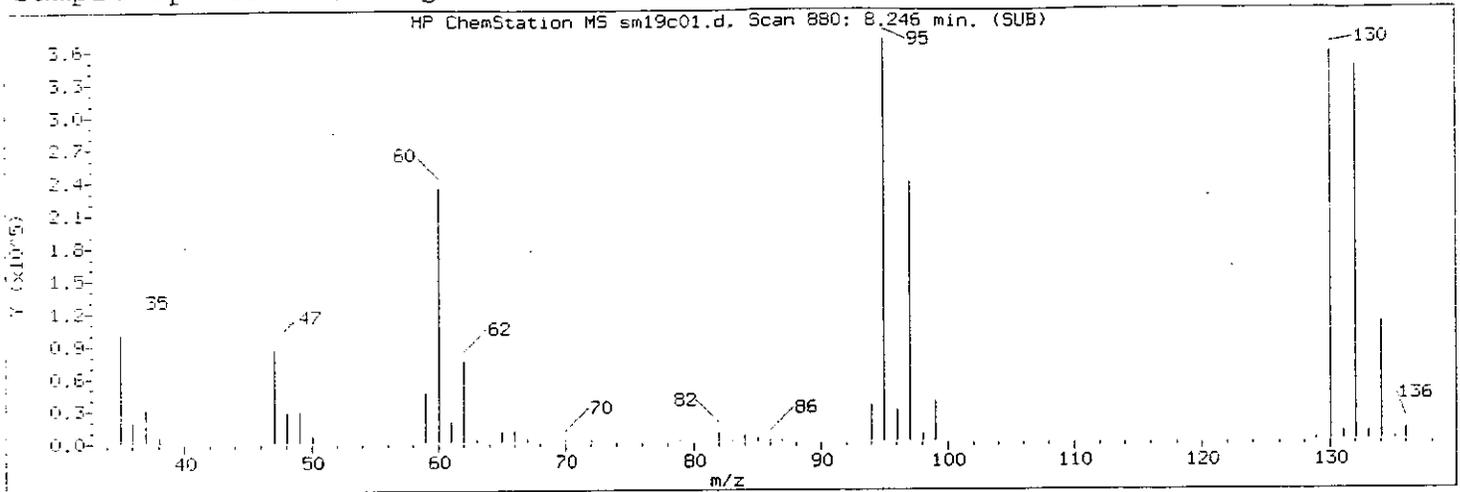
Sample Name: VSTD010

Lab Sample ID: VSTD010

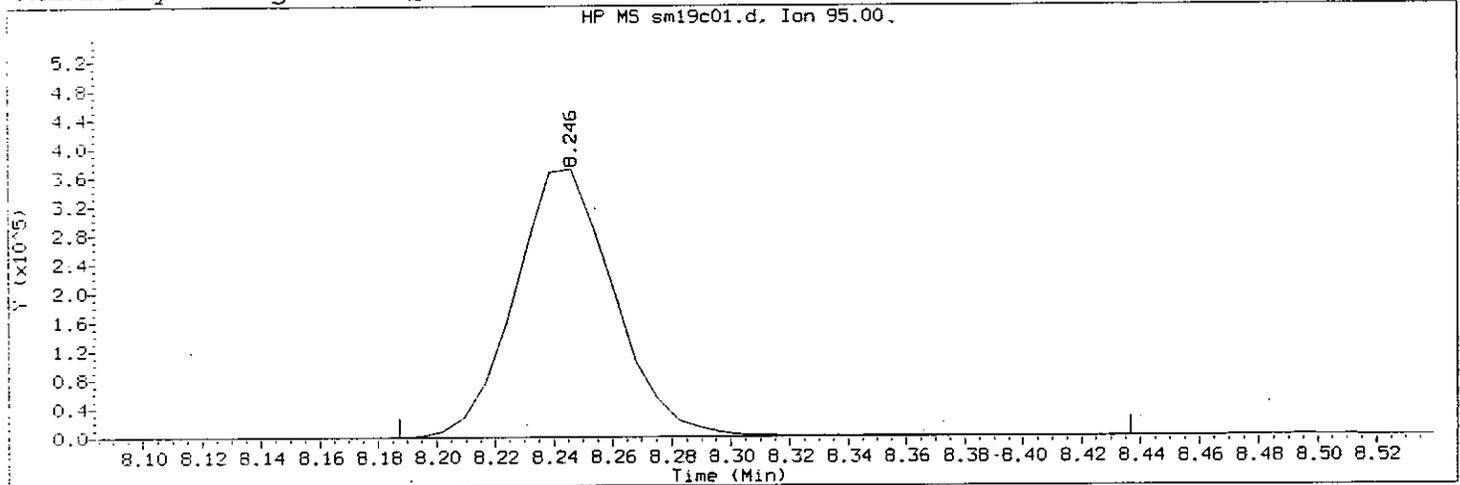
Compound Number : 25
 Compound Name : Ethyl t-Butyl Ether
 Scan Number : 566
 Retention Time (minutes): 5.943
 Quant Ion : 59
 Area : 2660065
 Concentration (ug/L) : 11.2730
 Integration start scan : 550 Integration stop scan: 603
 Y at integration start : 0 Y at integration end: 0

MAR 19 2009 16:21:16

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 16:20 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 19-Mar-2009 17:13 lcm01518

Sample Name: VSTD010 Lab Sample ID: VSTD010

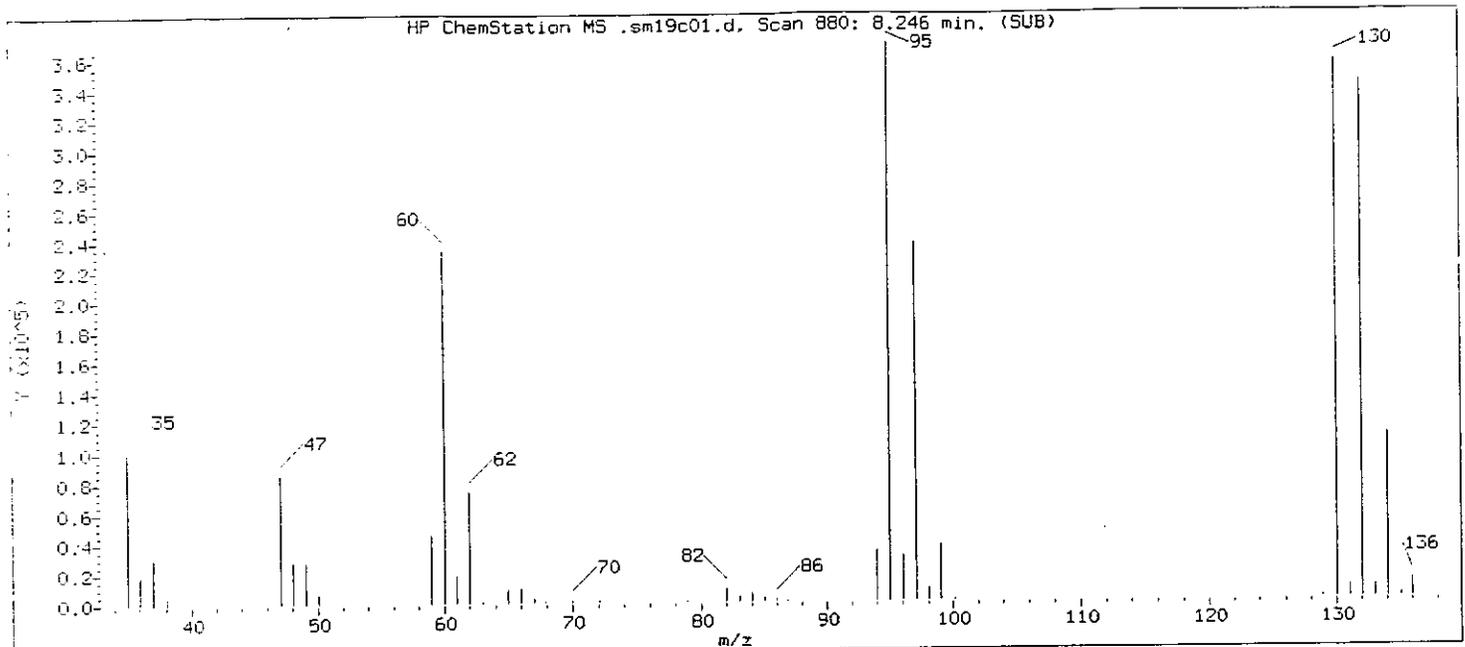
Compound Number : 43
 Compound Name : Trichloroethene
 Scan Number : 880
 Retention Time (minutes): 8.246
 Quant Ion : 95
 Area (flag) : 877724 M
 Concentration (ug/L) : 10.0850
 Integration start scan : 871 Integration stop scan: 905
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

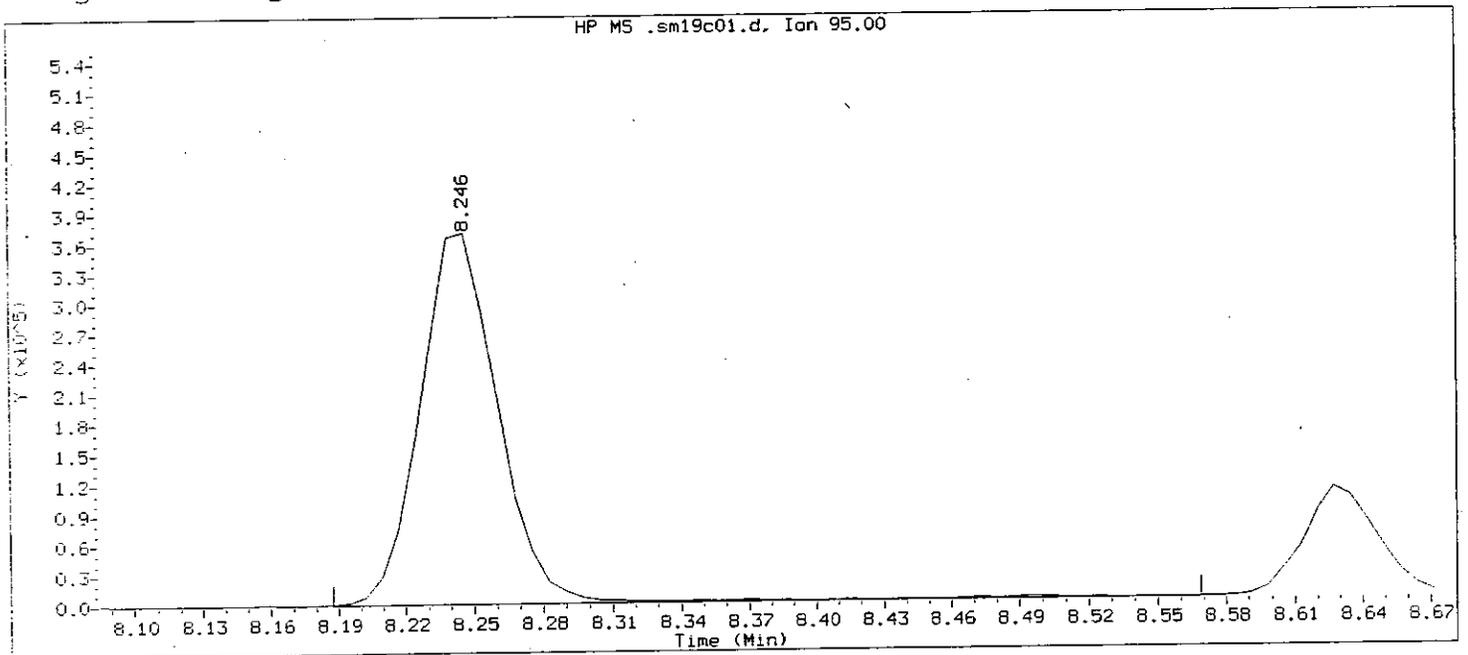
Analyst responsible for change: LCM01518

GC/MS audit/management approval: RLM 3/23/09 WAT89 8217

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 16:20 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 16:45 Automation

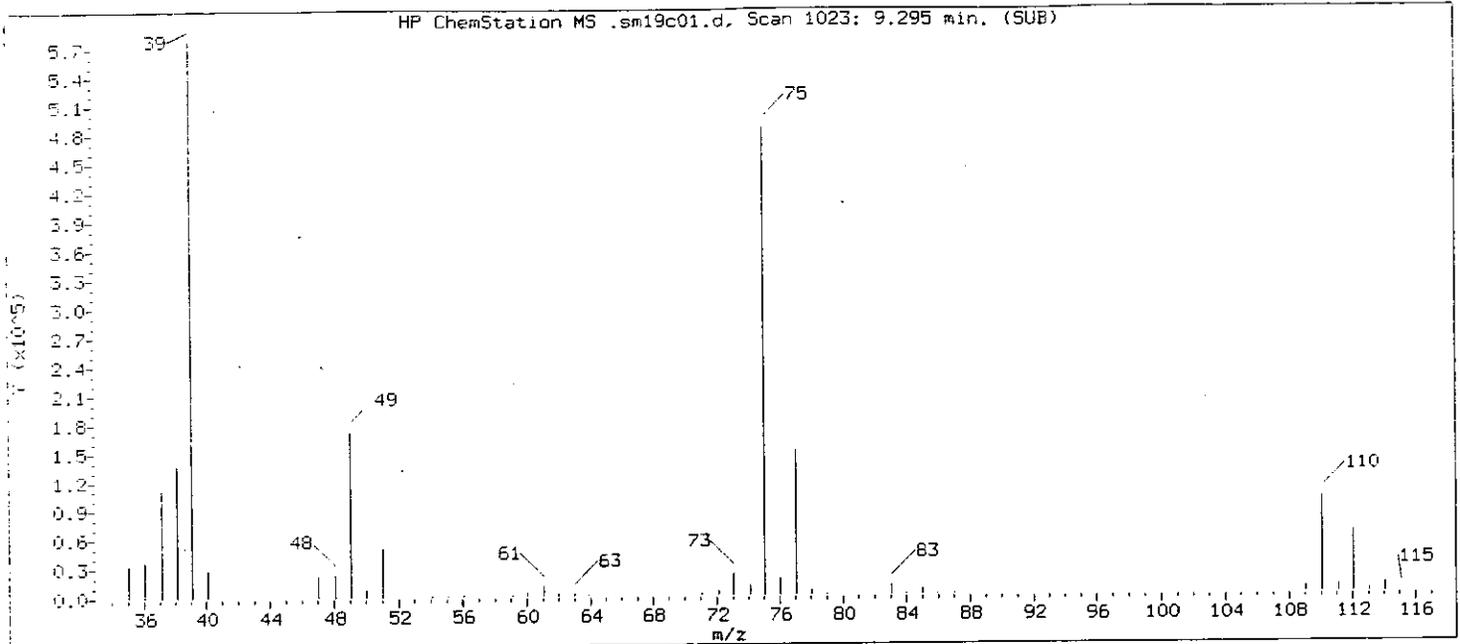
Sample Name: VSTD010

Lab Sample ID: VSTD010

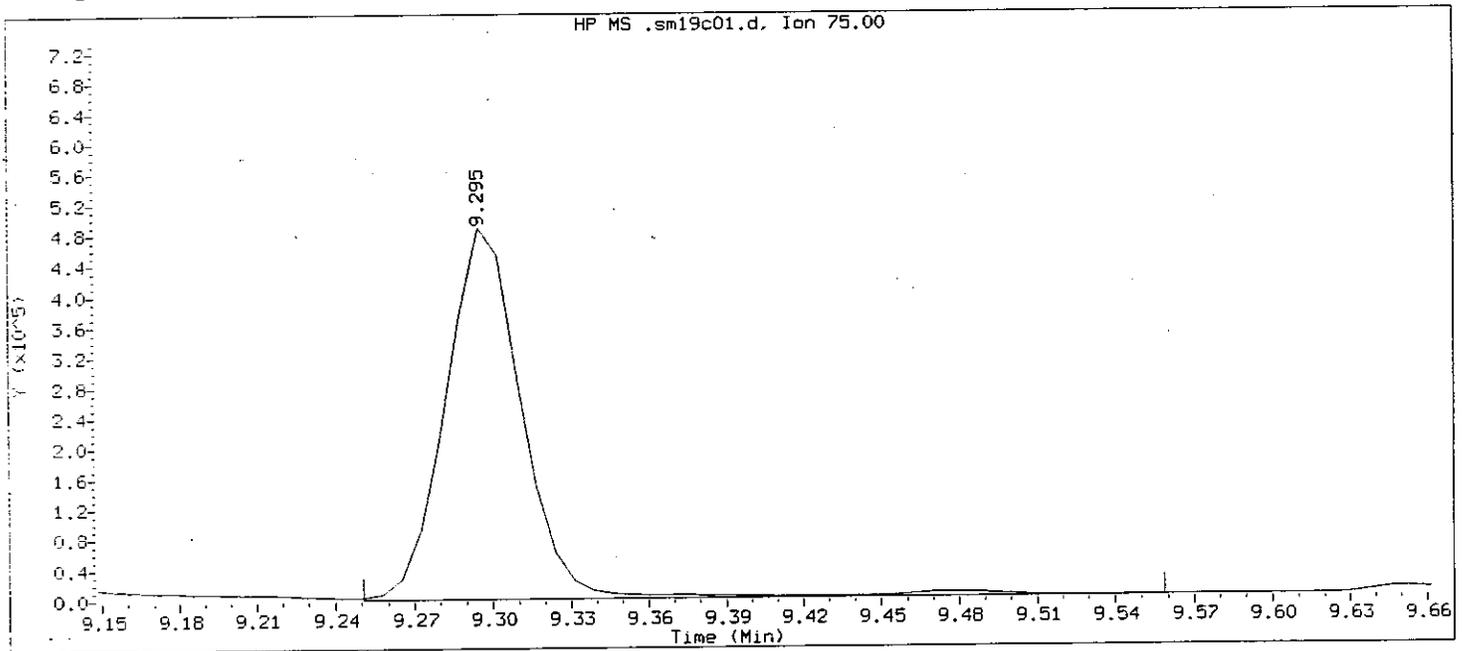
Compound Number : 43
Compound Name : Trichloroethene
Scan Number : 880
Retention Time (minutes): 8.246
Quant Ion : 95
Area : 885844
Concentration (ug/L) : 10.1783
Integration start scan : 871 Integration stop scan: 923
Y at integration start : 0 Y at integration end: 0

WATER 8218

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19c01.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 16:20 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 16:45 Automation

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 50
Compound Name : cis-1,3-Dichloropropene
Scan Number : 1023
Retention Time (minutes): 9.295
Quant Ion : 75
Area : 1001040
Concentration (ug/L) : 10.6311
Integration start scan : 1016 Integration stop scan: 1058
Y at integration start : 0 Y at integration end: 0

MAR09 0228

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: SH08359 Calibration Date: 03/20/09 Time: 06:11
 Lab File ID: sm20c01.d Init. Calib. Date(s): 03/18/2009 03/18/2009

| COMPOUND | RRF | RRF10 | %D | CALIB METH |
|-----------------------------|--------|--------|-----|------------|
| Dichlorodifluoromethane | 0.4105 | 0.4507 | 10 | AVG |
| Chloromethane | 1.1726 | 1.4930 | 27 | AVG |
| Vinyl Chloride | 0.8395 | 0.9288 | 11 | AVG |
| Bromomethane | 0.3774 | 0.4804 | 27 | AVG |
| Chloroethane | 0.4396 | 0.5025 | 14 | AVG |
| Dichlorofluoromethane | 0.8728 | 0.9879 | 13 | AVG |
| Trichlorofluoromethane | 0.4075 | 0.3656 | -10 | AVG |
| Ethyl Ether | 0.1843 | 0.2145 | 16 | AVG |
| Acrolein | 0.0294 | 0.0377 | 28 | AVG |
| 1,1-Dichloroethene | 0.3157 | 0.3026 | -4 | AVG |
| Freon 113 | 0.2959 | 0.2901 | -2 | AVG |
| Acetone | 0.0135 | 0.0137 | 1 | 2NDDEG |
| Methyl Iodide | 0.5698 | 0.6012 | 6 | AVG |
| Carbon Disulfide | 1.0432 | 1.1675 | 12 | AVG |
| Allyl Chloride | 0.8563 | 0.9042 | 6 | AVG |
| Methylene Chloride | 0.2648 | 0.3088 | 17 | AVG |
| t-Butyl Alcohol | 0.0092 | 0.0107 | 17 | AVG |
| Acrylonitrile | 0.0522 | 0.0679 | 30 | AVG |
| trans-1,2-Dichloroethene | 0.3421 | 0.3466 | 1 | AVG |
| Methyl Tertiary Butyl Ether | 0.3431 | 0.3823 | 11 | AVG |
| 1,1-Dichloroethane | 0.8387 | 0.8263 | -1 | AVG |
| di-Isopropyl Ether | 0.1763 | 0.2058 | 17 | AVG |
| Ethyl t-Butyl Ether | 0.8514 | 0.9782 | 15 | AVG |
| cis-1,2-Dichloroethene | 0.3111 | 0.3267 | 5 | AVG |
| 2,2-Dichloropropane | 0.3506 | 0.3729 | 6 | AVG |
| 2-Butanone | 0.0782 | 0.0975 | 25 | AVG |
| Propionitrile | 0.0183 | 0.0228 | 24 | AVG |
| Methyl Acrylate | 0.1260 | 0.1655 | 31 | AVG |
| Methacrylonitrile | 0.0460 | 0.0503 | 9 | AVG |
| Bromochloromethane | 0.1039 | 0.1218 | 17 | AVG |
| Tetrahydrofuran | 0.0103 | 0.0113 | 10 | AVG |
| Chloroform | 0.4758 | 0.5350 | 12 | AVG |
| 1,1,1-Trichloroethane | 0.3494 | 0.3662 | 5 | AVG |
| 1-Chlorobutane | 0.0394 | 0.0460 | 17 | AVG |
| Carbon Tetrachloride | 0.2838 | 0.3143 | 11 | AVG |
| 1,1-Dichloropropene | 0.4304 | 0.4421 | 3 | AVG |
| Benzene | 1.1273 | 1.2495 | 11 | AVG |
| 1,2-Dichloroethane | 0.2638 | 0.2993 | 13 | AVG |
| t-Amyl Methyl Ether | 0.4309 | 0.4823 | 12 | AVG |
| Trichloroethene | 0.3140 | 0.3280 | 4 | AVG |

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: SH08359 Calibration Date: 03/20/09 Time: 06:11
 Lab File ID: sm20c01.d Init. Calib. Date(s): 03/18/2009 03/18/2009

| COMPOUND | RRF | RRF10 | %D | CALIB METH |
|-----------------------------|--------|--------|----|------------|
| 1,2-Dichloropropane | 0.3923 | 0.4083 | 4 | AVG |
| Methyl Methacrylate | 0.0757 | 0.0852 | 13 | AVG |
| Dibromomethane | 0.0990 | 0.1150 | 16 | AVG |
| Bromodichloromethane | 0.2618 | 0.3096 | 18 | AVG |
| 2-Nitropropane | 0.0013 | 0.0019 | 46 | AVG |
| Chloroacetonitrile | 0.0045 | 0.0054 | 20 | AVG |
| cis-1,3-Dichloropropene | 0.3397 | 0.3747 | 10 | AVG |
| 4-Methyl-2-Pentanone | 0.0526 | 0.0698 | 33 | AVG |
| 1,1-Dichloropropanone | 0.0015 | 0.0021 | 37 | AVG |
| Toluene | 0.6835 | 0.7546 | 10 | AVG |
| trans-1,3-Dichloropropene | 0.2325 | 0.2629 | 13 | AVG |
| Ethyl Methacrylate | 0.1545 | 0.1723 | 11 | AVG |
| 1,1,2-Trichloroethane | 0.0999 | 0.1230 | 23 | AVG |
| Tetrachloroethene | 0.2877 | 0.3088 | 7 | AVG |
| 1,3-Dichloropropane | 0.2109 | 0.2422 | 15 | AVG |
| 2-Hexanone | 0.0476 | 0.0630 | 32 | AVG |
| Dibromochloromethane | 0.1546 | 0.1849 | 20 | AVG |
| 1,2-Dibromoethane | 0.1173 | 0.1326 | 13 | AVG |
| Chlorobenzene | 0.5960 | 0.6624 | 11 | AVG |
| 1,1,1,2-Tetrachloroethane | 0.1934 | 0.2271 | 17 | AVG |
| Ethylbenzene | 0.3753 | 0.3844 | 2 | AVG |
| m+p-Xylene | 0.4456 | 0.4903 | 10 | AVG |
| o-Xylene | 0.4285 | 0.4494 | 5 | AVG |
| Styrene | 0.5935 | 0.6886 | 16 | AVG |
| Bromoform | 0.0741 | 0.0918 | 24 | AVG |
| Isopropylbenzene | 0.2709 | 0.2805 | 4 | AVG |
| 1,1,2,2-Tetrachloroethane | 0.1209 | 0.1553 | 28 | AVG |
| Bromobenzene | 0.2181 | 0.2435 | 12 | AVG |
| 1,2,3-Trichloropropane | 0.0259 | 0.0299 | 16 | AVG |
| trans-1,4-Dichloro-2-Butene | 0.0427 | 0.0598 | 40 | AVG |
| n-Propylbenzene | 0.2700 | 0.2984 | 11 | AVG |
| 2-Chlorotoluene | 0.2443 | 0.2749 | 13 | AVG |
| 1,3,5-Trimethylbenzene | 0.7915 | 0.8683 | 10 | AVG |
| 4-Chlorotoluene | 0.2507 | 0.2826 | 13 | AVG |
| tert-Butylbenzene | 0.1871 | 0.2099 | 12 | AVG |
| Pentachloroethane | 0.1243 | 0.1513 | 22 | AVG |
| 1,2,4-Trimethylbenzene | 0.7816 | 0.8652 | 11 | AVG |
| sec-Butylbenzene | 0.1941 | 0.2192 | 13 | AVG |
| p-Isopropyltoluene | 0.7321 | 0.8915 | 22 | AVG |
| 1,3-Dichlorobenzene | 0.4209 | 0.4728 | 12 | AVG |

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Instrument ID: SH08359 Calibration Date: 03/20/09 Time: 06:11
 Lab File ID: sm20c01.d Init. Calib. Date(s): 03/18/2009 03/18/2009

| COMPOUND | RRF | RRF10 | %D | CALIB METH |
|-----------------------------|--------|--------|----|---------------|
| 1,4-Dichlorobenzene | 0.4079 | 0.4574 | 12 | AVG |
| n-Butylbenzene | 0.4841 | 0.5934 | 23 | AVG |
| 1,2-Dichlorobenzene | 0.3138 | 0.3627 | 16 | AVG |
| Hexachloroethane | 0.1405 | 0.1649 | 17 | AVG |
| 1,2-Dibromo-3-Chloropropane | 0.0136 | 0.0173 | 27 | AVG |
| Nitrobenzene | 0.0027 | 0.0031 | 15 | AVG |
| 1,2,4-Trichlorobenzene | 0.1720 | 0.2032 | 18 | AVG |
| Hexachlorobutadiene | 0.1366 | 0.1420 | 4 | AVG |
| Naphthalene | 0.1973 | 0.2270 | 15 | AVG |
| 1,2,3-Trichlorobenzene | 0.1249 | 0.1412 | 13 | AVG |
| 4-Bromofluorobenzene | 0.2029 | 0.2173 | 7 | AVG |
| 1,2-Dichlorobenzene-d4 | 0.1798 | 0.2074 | 15 | AVG |

Average %Difference 15

Lancaster Laboratories
 GC/MS Volatiles Method 524.2 Check Sample Summary

File: sm20c01.d Injected: 03/20/09 Method: EPA 524.2 REV 4
 Inst: SH08359 Sample: VSTD010 Matrix/level: W/L

| COMPOUND NAME | CONCENTRATION SPIKED (UG/L) | CONCENTRATION MEASURED (UG/L) | % RECOVERY | IN SPEC |
|-----------------------------|--------------------------------|----------------------------------|---------------|------------|
| Dichlorodifluoromethane | 10.000 | 10.980 | 110 | YES |
| Chloromethane | 10.000 | 12.732 | 127 | YES |
| Vinyl Chloride | 10.000 | 11.064 | 111 | YES |
| Bromomethane | 10.000 | 12.728 | 127 | YES |
| Chloroethane | 10.000 | 11.431 | 114 | YES |
| Dichlorofluoromethane | 10.000 | 11.318 | 113 | YES |
| Trichlorofluoromethane | 10.000 | 8.972 | 90 | YES |
| Ethyl Ether | 10.000 | 11.640 | 116 | YES |
| Acrolein | 500.000 | 641.317 | 128 | YES |
| 1,1-Dichloroethene | 10.000 | 9.584 | 96 | YES |
| Freon 113 | 10.000 | 9.804 | 98 | YES |
| Acetone | 100.000 | 120.233 | 120 | YES |
| Methyl Iodide | 10.000 | 10.551 | 106 | YES |
| Carbon Disulfide | 10.000 | 11.192 | 112 | YES |
| Allyl Chloride | 10.000 | 10.560 | 106 | YES |
| Methylene Chloride | 10.000 | 11.663 | 117 | YES |
| t-Butyl Alcohol | 200.000 | 232.239 | 116 | YES |
| Acrylonitrile | 124.800 | 162.367 | 130 | YES |
| trans-1,2-Dichloroethene | 10.000 | 10.133 | 101 | YES |
| Methyl Tertiary Butyl Ether | 10.000 | 11.144 | 111 | YES |
| 1,1-Dichloroethane | 10.000 | 9.852 | 99 | YES |
| di-Isopropyl Ether | 10.000 | 11.670 | 117 | YES |
| Ethyl t-Butyl Ether | 10.000 | 11.490 | 115 | YES |
| cis-1,2-Dichloroethene | 10.000 | 10.502 | 105 | YES |
| 2,2-Dichloropropane | 10.000 | 10.637 | 106 | YES |
| 2-Butanone | 100.000 | 124.660 | 125 | YES |
| Propionitrile | 200.000 | 248.944 | 124 | YES |
| Methyl Acrylate | 50.000 | 65.702 | 131 | NO |
| Methacrylonitrile | 100.000 | 109.299 | 109 | YES |
| Bromochloromethane | 10.000 | 11.721 | 117 | YES |
| Tetrahydrofuran | 140.000 | 153.903 | 110 | YES |
| Chloroform | 10.000 | 11.243 | 112 | YES |
| 1,1,1-Trichloroethane | 10.000 | 10.479 | 105 | YES |
| 1-Chlorobutane | 10.000 | 11.671 | 117 | YES |
| Carbon Tetrachloride | 10.000 | 11.077 | 111 | YES |
| 1,1-Dichloropropene | 10.000 | 10.271 | 103 | YES |
| Benzene | 10.000 | 11.084 | 111 | YES |
| 1,2-Dichloroethane | 10.000 | 11.346 | 113 | YES |
| t-Amyl Methyl Ether | 10.000 | 11.193 | 112 | YES |

Lancaster Laboratories
 GC/MS Volatiles Method 524.2 Check Sample Summary
 =====

File: sm20c01.d Injected: 03/20/09 Method: EPA 524.2 REV 4
 Inst: SH08359 Sample: VSTD010 Matrix/level: W/L

| COMPOUND NAME | CONCENTRATION SPIKED (UG/L) | CONCENTRATION MEASURED (UG/L) | % RECOVERY | IN SPEC |
|-----------------------------|--------------------------------|----------------------------------|---------------|------------|
| Trichloroethene | 10.000 | 10.444 | 104 | YES |
| 1,2-Dichloropropane | 10.000 | 10.410 | 104 | YES |
| Methyl Methacrylate | 10.000 | 11.258 | 113 | YES |
| Dibromomethane | 10.000 | 11.617 | 116 | YES |
| Bromodichloromethane | 10.000 | 11.826 | 118 | YES |
| 2-Nitropropane | 1050.00 | 1511.95 | 144 | NO |
| Chloroacetonitrile | 500.000 | 603.780 | 121 | YES |
| cis-1,3-Dichloropropene | 10.000 | 11.029 | 110 | YES |
| 4-Methyl-2-Pentanone | 100.000 | 132.652 | 133 | NO |
| 1,1-Dichloropropanone | 1000.00 | 1372.14 | 137 | NO |
| Toluene | 10.000 | 11.039 | 110 | YES |
| trans-1,3-Dichloropropene | 10.000 | 11.307 | 113 | YES |
| Ethyl Methacrylate | 10.000 | 11.146 | 111 | YES |
| 1,1,2-Trichloroethane | 10.000 | 12.311 | 123 | YES |
| Tetrachloroethene | 10.000 | 10.730 | 107 | YES |
| 1,3-Dichloropropane | 10.000 | 11.481 | 115 | YES |
| 2-Hexanone | 100.000 | 132.377 | 132 | NO |
| Dibromochloromethane | 10.000 | 11.959 | 120 | YES |
| 1,2-Dibromoethane | 10.000 | 11.300 | 113 | YES |
| Chlorobenzene | 10.000 | 11.114 | 111 | YES |
| 1,1,1,2-Tetrachloroethane | 10.000 | 11.743 | 117 | YES |
| Ethylbenzene | 10.000 | 10.242 | 102 | YES |
| m+p-Xylene | 20.000 | 22.007 | 110 | YES |
| o-Xylene | 10.000 | 10.488 | 105 | YES |
| Styrene | 10.000 | 11.602 | 116 | YES |
| Bromoform | 10.000 | 12.396 | 124 | YES |
| Isopropylbenzene | 10.000 | 10.356 | 104 | YES |
| 1,1,2,2-Tetrachloroethane | 10.000 | 12.847 | 128 | YES |
| Bromobenzene | 10.000 | 11.160 | 112 | YES |
| 1,2,3-Trichloropropane | 10.000 | 11.571 | 116 | YES |
| trans-1,4-Dichloro-2-Butene | 100.000 | 140.052 | 140 | NO |
| n-Propylbenzene | 10.000 | 11.051 | 111 | YES |
| 2-Chlorotoluene | 10.000 | 11.253 | 113 | YES |
| 1,3,5-Trimethylbenzene | 10.000 | 10.970 | 110 | YES |
| 4-Chlorotoluene | 10.000 | 11.273 | 113 | YES |
| tert-Butylbenzene | 10.000 | 11.218 | 112 | YES |
| Pentachloroethane | 10.000 | 12.174 | 122 | YES |
| 1,2,4-Trimethylbenzene | 10.000 | 11.070 | 111 | YES |
| sec-Butylbenzene | 10.000 | 11.293 | 113 | YES |

Lancaster Laboratories
 GC/MS Volatiles Method 524.2 Check Sample Summary
 =====

File: sm20c01.d Injected: 03/20/09 Method: EPA 524.2 REV 4
 Inst: SH08359 Sample: VSTD010 Matrix/level: W/L

| COMPOUND NAME | CONCENTRATION SPIKED (UG/L) | CONCENTRATION MEASURED (UG/L) | % RECOVERY | IN SPEC |
|-----------------------------|--------------------------------|----------------------------------|---------------|------------|
| p-Isopropyltoluene | 10.000 | 12.178 | 122 | YES |
| 1,3-Dichlorobenzene | 10.000 | 11.235 | 112 | YES |
| 1,4-Dichlorobenzene | 10.000 | 11.213 | 112 | YES |
| n-Butylbenzene | 10.000 | 12.259 | 123 | YES |
| 1,2-Dichlorobenzene | 10.000 | 11.560 | 116 | YES |
| Hexachloroethane | 10.000 | 11.734 | 117 | YES |
| 1,2-Dibromo-3-Chloropropane | 10.000 | 12.756 | 128 | YES |
| Nitrobenzene | 200.000 | 225.584 | 113 | YES |
| 1,2,4-Trichlorobenzene | 10.000 | 11.811 | 118 | YES |
| Hexachlorobutadiene | 10.000 | 10.394 | 104 | YES |
| Naphthalene | 10.000 | 11.500 | 115 | YES |
| 1,2,3-Trichlorobenzene | 10.000 | 11.302 | 113 | YES |
| ===== | | | | |
| 4-Bromofluorobenzene | 5.000 | 5.355 | 107 | YES |
| 1,2-Dichlorobenzene-d4 | 5.000 | 5.767 | 115 | YES |
| ===== | | | | |

EPA Method 524

Continuing Calibration Internal/Surrogate Standard Check

Initial Calibration Standards:

```

** /chem/SH08359.i/09mar18b.b/sm18i01.d VSTD025
   /chem/SH08359.i/09mar18b.b/sm18i02.d VSTD010
   /chem/SH08359.i/09mar18b.b/sm18i03.d VSTD005
   /chem/SH08359.i/09mar18b.b/sm18i04.d VSTD0.5
    
```

** File is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/SH08359.i/09mar20a.b/sm20c01.d

RT Summary

File ID:

=====

| Internal/Surrogate Standard Name | sm20c01.d | ICAL RT | In Spec |
|-------------------------------------|-----------|---------|---------|
| Fluorobenzene | 7.777 | 7.784 | Yes |
| 4-Bromofluorobenzene | 11.993 | 11.993 | Yes |
| 1,2-Dichlorobenzene-d4 | 13.269 | 13.277 | Yes |

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

File ID:

=====

| Internal/Surrogate Standard Name | sm20c01.d | ICAL Area | Low Limit | High Limit | In Spec |
|-------------------------------------|-----------|-----------|-----------|------------|---------|
| Fluorobenzene | 1286723 | 1849293 | 924646 | 3698586 | Yes |
| 4-Bromofluorobenzene | 279656 | 374528 | 187264 | 749056 | Yes |
| 1,2-Dichlorobenzene-d4 | 266880 | 326427 | 163214 | 652854 | Yes |

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

EPA Method 524

Continuing Calibration Internal/Surrogate Standard Check

Current Continuing Calibration Standard:

/chem/SH08359.i/09mar20a.b/sm20c01.d

Previous Continuing Calibration Standard:

/chem/SH08359.i/09mar19a.b/sm19c01.d

RT Summary

File ID:

=====

| Internal/Surrogate Standard Name | sm20c01.d | Previous CCAL RT | In Spec |
|-------------------------------------|-----------|---------------------|---------|
| Fluorobenzene | 7.777 | 7.784 | Yes |
| 4-Bromofluorobenzene | 11.993 | 11.993 | Yes |
| 1,2-Dichlorobenzene-d4 | 13.269 | 13.277 | Yes |

A "No" indicates the retention time is greater than 30 seconds from the average RT.

Area Summary

File ID:

=====

| Internal/Surrogate Standard Name | sm20c01.d | Previous CCAL Area | Low Limit | In Spec |
|-------------------------------------|-----------|-----------------------|-----------|---------|
| Fluorobenzene | 1286723 | 1385767 | 970037 | Yes |
| 4-Bromofluorobenzene | 279656 | 296871 | 207810 | Yes |
| 1,2-Dichlorobenzene-d4 | 266880 | 278644 | 195051 | Yes |

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20c01.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 06:11 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 20-Mar-2009 06:44 amd00492

Sample Name: VSTD010

Lab Sample ID: VSTD010

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.137 | 85 | 1159973 | 10.980 |
| 2) Chloromethane | (1) | 2.269 | 50 | 3842059 | 12.732 |
| 3) Vinyl Chloride | (1) | 2.409 | 62 | 2390222 | 11.064 |
| 4) Bromomethane | (1) | 2.761 | 94 | 1236250 | 12.728 |
| 5) Chloroethane | (1) | 2.863 | 64 | 1293161 | 11.431 |
| 6) Dichlorofluoromethane | (1) | 3.098 | 67 | 2542292 | 11.318 |
| 7) Trichlorofluoromethane | (1) | 3.201 | 101 | 940955 | 8.972 |
| 8) Ethyl Ether | (1) | 3.435 | 59 | 552110 | 11.640 |
| 9) Acrolein | (1) | 3.597 | 56 | 4852976 | 641.317 |
| 10) 1,1-Dichloroethene | (1) | 3.795 | 96 | 778598 | 9.584 |
| 11) Freon 113 | (1) | 3.824 | 101 | 746675 | 9.804 |
| 12) Acetone | (1) | 3.780 | 58 | 352529 | 120.233 |
| 13) Methyl Iodide | (1) | 3.971 | 142 | 1547059 | 10.551 |
| 14) Carbon Disulfide | (1) | 4.095 | 76 | 3004393 | 11.192 |
| 15) Allyl Chloride | (1) | 4.198 | 39 | 2326912 | 10.560 |
| 17) Methylene Chloride | (1) | 4.352 | 84 | 794629 | 11.663 |
| 18) t-Butyl Alcohol | (1) | 4.484 | 59 | 552097M | 232.239 |
| 19) Acrylonitrile | (1) | 4.660 | 53 | 2180306 | 162.367 |
| 20) trans-1,2-Dichloroethene | (1) | 4.733 | 96 | 892049 | 10.133 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.748 | 73 | 983908 | 11.144 |
| 22) 1,1-Dichloroethane | (1) | 5.298 | 63 | 2126466 | 9.852 |
| 24) di-Isopropyl Ether | (1) | 5.408 | 87 | 529603 | 11.670 |
| 25) Ethyl t-Butyl Ether | (1) | 5.936 | 59 | 2517460 | 11.490 |
| 26) cis-1,2-Dichloroethene | (1) | 6.127 | 96 | 840851 | 10.502 |
| 27) 2,2-Dichloropropane | (1) | 6.149 | 77 | 959660 | 10.637 |
| 28) 2-Butanone | (1) | 6.127 | 43 | 2508121 | 124.660 |
| 29) Propionitrile | (1) | 6.200 | 54 | 1171845 | 248.944 |
| 30) Methyl Acrylate | (1) | 6.288 | 55 | 2129822 | 65.702 |
| 31) Methacrylonitrile | (1) | 6.435 | 67 | 1293736 | 109.299 |
| 32) Bromochloromethane | (1) | 6.464 | 128 | 313342 | 11.721 |
| 33) Tetrahydrofuran | (1) | 6.545 | 71 | 407268 | 153.903 |
| 34) Chloroform | (1) | 6.589 | 83 | 1376693 | 11.243 |
| 35) 1,1,1-Trichloroethane | (1) | 6.897 | 97 | 942379 | 10.479 |
| 36) 1-Chlorobutane | (1) | 7.043 | 49 | 118362 | 11.671 |

M = Compound was manually integrated.

WAT89 8231

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20c01.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 06:11 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 20-Mar-2009 06:44 amd00492

Sample Name: VSTD010

Lab Sample ID: VSTD010

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.146 | 117 | 808918 | 11.077 |
| 38) 1,1-Dichloropropene | (1) | 7.131 | 75 | 1137603 | 10.271 |
| 39) Benzene | (1) | 7.410 | 78 | 3215615 | 11.084 |
| 40) 1,2-Dichloroethane | (1) | 7.425 | 62 | 770229 | 11.346 |
| 41) t-Amyl Methyl Ether | (1) | 7.579 | 73 | 1241150 | 11.193 |
| 42)*Fluorobenzene | (1) | 7.777 | 96 | 1286723 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 844036 | 10.444 |
| 44) 1,2-Dichloropropane | (1) | 8.495 | 63 | 1050845 | 10.410 |
| 45) Methyl Methacrylate | (1) | 8.635 | 69 | 219263 | 11.258 |
| 46) Dibromomethane | (1) | 8.620 | 93 | 295933 | 11.617 |
| 47) Bromodichloromethane | (1) | 8.803 | 83 | 796840 | 11.826 |
| 48) 2-Nitropropane | (1) | 9.045 | 46 | 513916 | 1511.953 |
| 49) Chloroacetonitrile | (1) | 9.067 | 75 | 696820 | 603.780 |
| 50) cis-1,3-Dichloropropene | (1) | 9.287 | 75 | 964251 | 11.029 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.449 | 58 | 1796563 | 132.652 |
| 52) 1,1-Dichloropropanone | (1) | 9.471 | 83 | 528687 | 1372.142 |
| 53) Toluene | (1) | 9.647 | 92 | 1941927 | 11.039 |
| 55) trans-1,3-Dichloropropene | (1) | 9.852 | 75 | 676517 | 11.307 |
| 56) Ethyl Methacrylate | (1) | 9.947 | 69 | 443293 | 11.146 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035 | 83 | 316407 | 12.311 |
| 58) Tetrachloroethene | (1) | 10.189 | 166 | 794588 | 10.730 |
| 59) 1,3-Dichloropropane | (1) | 10.197 | 76 | 623237 | 11.481 |
| 60) 2-Hexanone | (1) | 10.270 | 58 | 1622419 | 132.377 |
| 61) Dibromochloromethane | (1) | 10.417 | 129 | 475703 | 11.959 |
| 62) 1,2-Dibromoethane | (1) | 10.534 | 107 | 341221 | 11.300 |
| 64) Chlorobenzene | (1) | 10.989 | 112 | 1704696 | 11.114 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 584524 | 11.743 |
| 66) Ethylbenzene | (1) | 11.084 | 106 | 989255 | 10.242 |
| 67) m+p-Xylene | (1) | 11.187 | 106 | 2523332 | 22.007 |
| 68) o-Xylene | (1) | 11.546 | 106 | 1156402 | 10.488 |
| 69) Styrene | (1) | 11.546 | 104 | 1772058 | 11.602 |
| 71) Bromoform | (1) | 11.715 | 173 | 236231 | 12.396 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 721974 | 10.356 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 399640 | 12.847 |

WATER 8232

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20c01.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 06:11 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 20-Mar-2009 06:44 amd00492

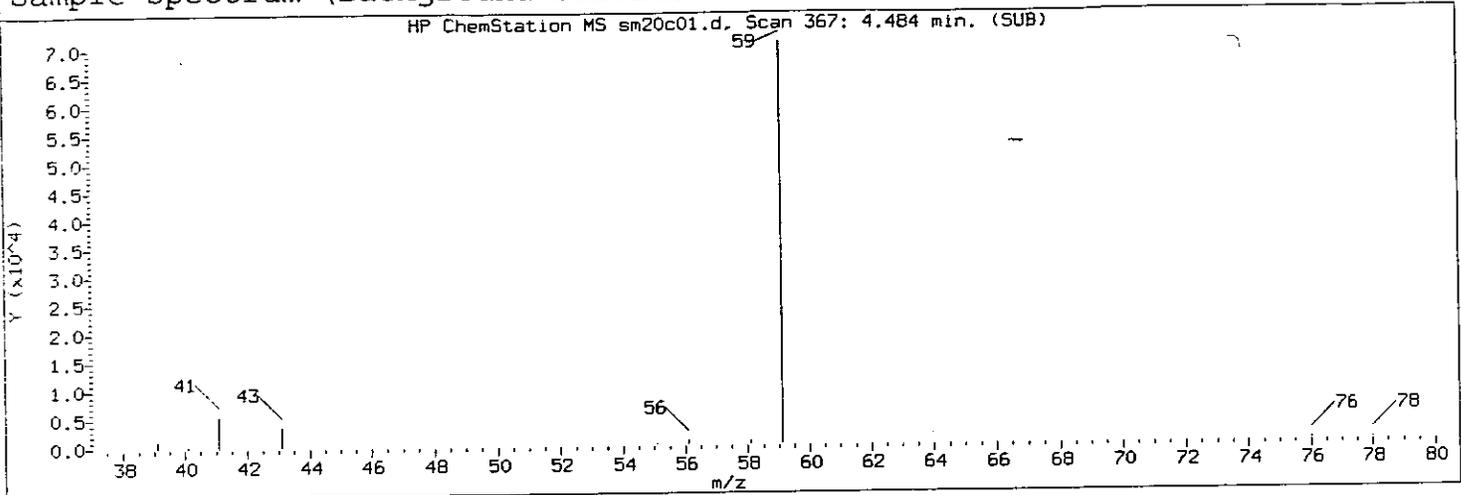
Sample Name: VSTD010

Lab Sample ID: VSTD010

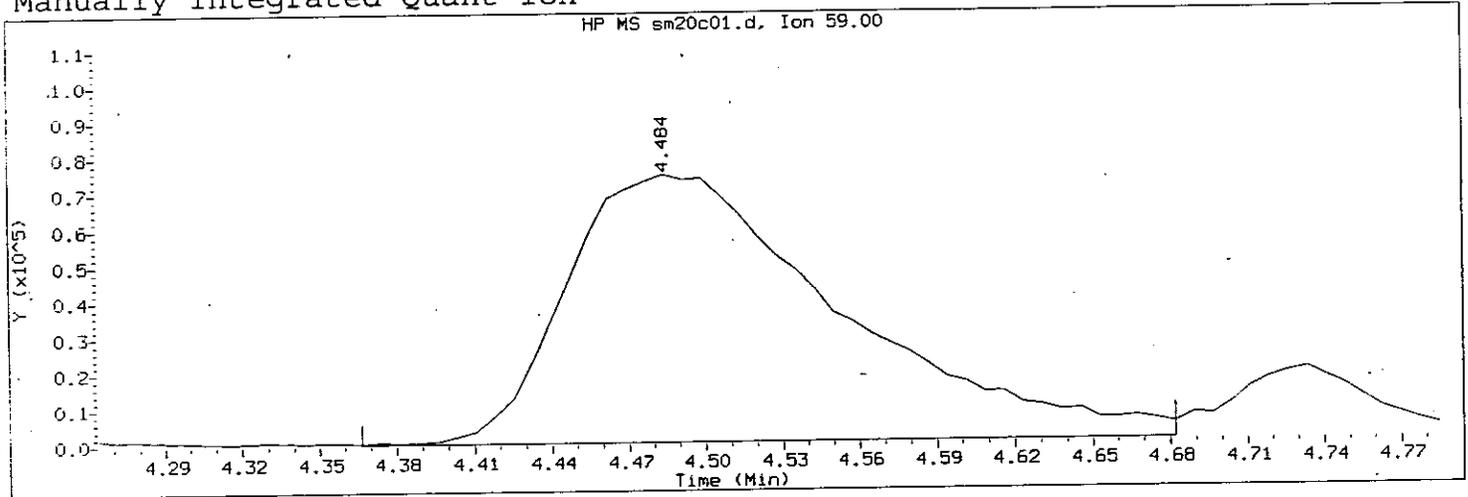
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 75) Bromobenzene | (1) | 12.125 | 156 | 626507 | 11.160 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140 | 110 | 77068 | 11.571 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.140 | 53 | 1538616 | 140.052 |
| 78) n-Propylbenzene | (1) | 12.206 | 120 | 767939 | 11.051 |
| 79) 2-Chlorotoluene | (1) | 12.287 | 126 | 707473 | 11.253 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.345 | 105 | 2234494 | 10.970 |
| 81) 4-Chlorotoluene | (1) | 12.375 | 126 | 727228 | 11.273 |
| 82) tert-Butylbenzene | (1) | 12.624 | 134 | 540236 | 11.218 |
| 83) Pentachloroethane | (1) | 12.646 | 167 | 389484 | 12.174 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661 | 105 | 2226540 | 11.070 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 564207 | 11.293 |
| 86) p-Isopropyltoluene | (1) | 12.917 | 119 | 2294170 | 12.178 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 1216850 | 11.235 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 1177105 | 11.213 |
| 89) n-Butylbenzene | (1) | 13.247 | 92 | 1527171 | 12.259 |
| 91) 1,2-Dichlorobenzene | (1) | 13.284 | 146 | 933437 | 11.560 |
| 92) Hexachloroethane | (1) | 13.504 | 201 | 424370 | 11.734 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.900 | 157 | 44603 | 12.756 |
| 94) Nitrobenzene | (1) | 14.069 | 77 | 159472 | 225.584 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.560 | 180 | 522822 | 11.811 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 365321 | 10.394 |
| 97) Naphthalene | (1) | 14.765 | 128 | 584056 | 11.500 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949 | 180 | 363283 | 11.302 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 279656 | 5.355 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 266880 | 5.767 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar20a.b/sm20c01.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 06:11 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 20-MAR-2009 06:44
 Date, time and analyst ID of latest file update: 20-Mar-2009 06:44 amd00492

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 18
 Compound Name : t-Butyl Alcohol
 Scan Number : 367
 Retention Time (minutes) : 4.484
 Quant Ion : 59
 Area (flag) : 552097 M
 Concentration (ug/L) : 232.2389
 Integration start scan : 350 Integration stop scan: 393
 Y at integration start : 0 Y at integration end: 0

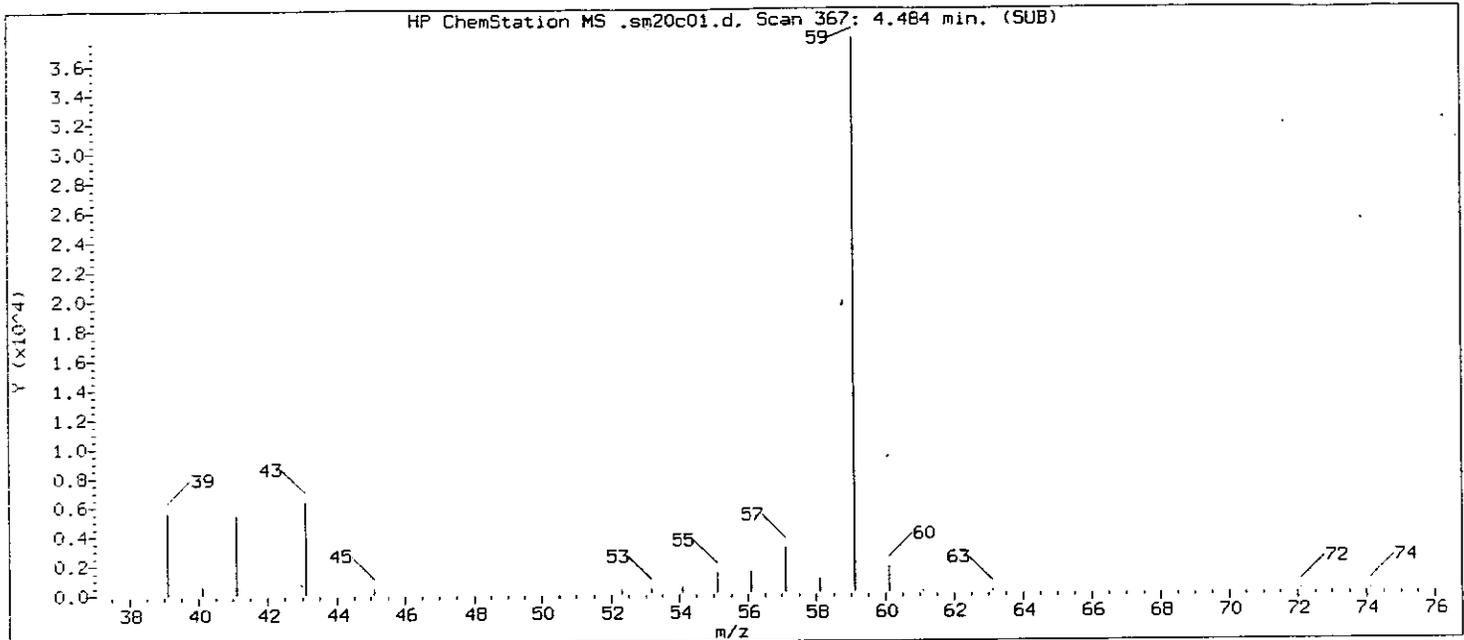
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: WJ/amd 3/20/09

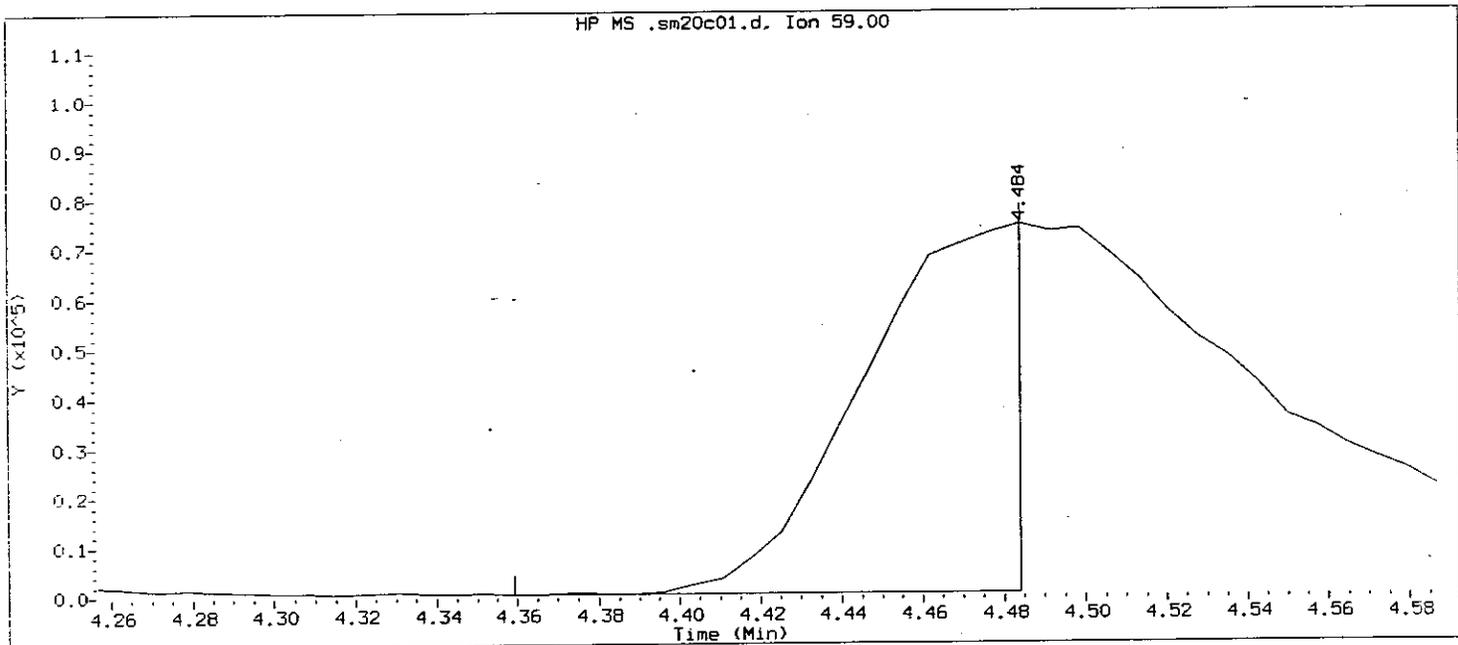
WATERS 8234

GC/MS audit/management approval: WJ/amd 3/20/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar20a.b/sm20c01.d Instrument ID: SH08359.i
Injection date and time: 20-MAR-2009 06:11 Analyst ID: amd00492
Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 20-MAR-2009 06:42
Date, time and analyst ID of latest file update: 20-Mar-2009 06:42 Automation
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 18
Compound Name : t-Butyl Alcohol
Scan Number : 367
Retention Time (minutes): 4.484
Quant Ion : 59
Area : 191204
Concentration (ug/L) : 80.4299
Integration start scan : 349 Integration stop scan: 366
Y at integration start : 286 Y at integration end: 286

WAT89 8235

Raw QC Data

Data File: /chem/SH08359.i/09mar18b.b/sm18t04.d

Page 1

Date : 18-MAR-2009 16:04

Client ID: 25ng BFB

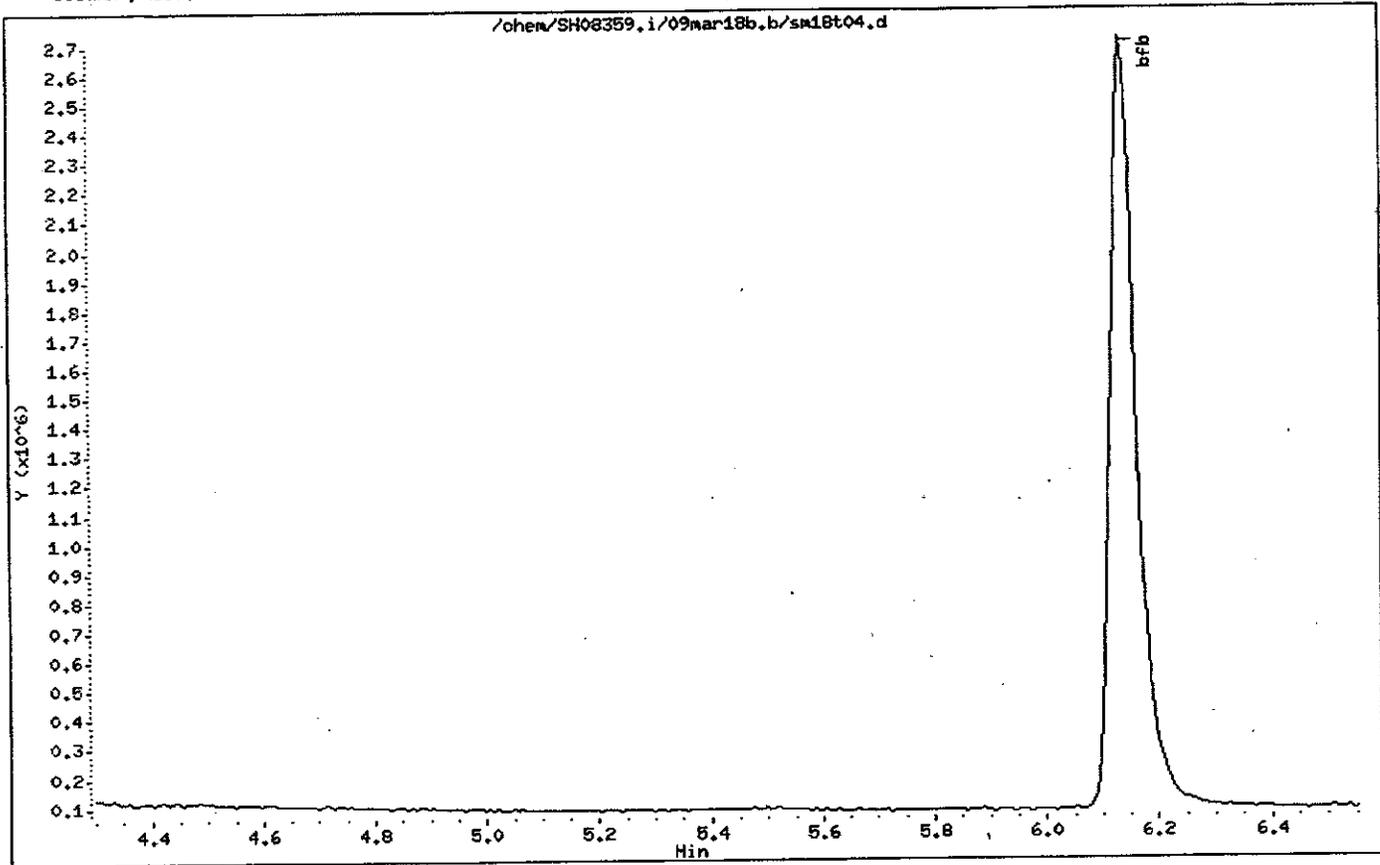
Instrument: SH08359.i

Sample Info: 25ng BFB;BFB DEC18-08;1;3;

Operator: lon01518

Column phase: DB-624

Column diameter: 0.25



umar
3/18/09

WAT89 8237

Date : 18-MAR-2009 16:04

Client ID: 25ng BFB

Instrument: SH08359.i

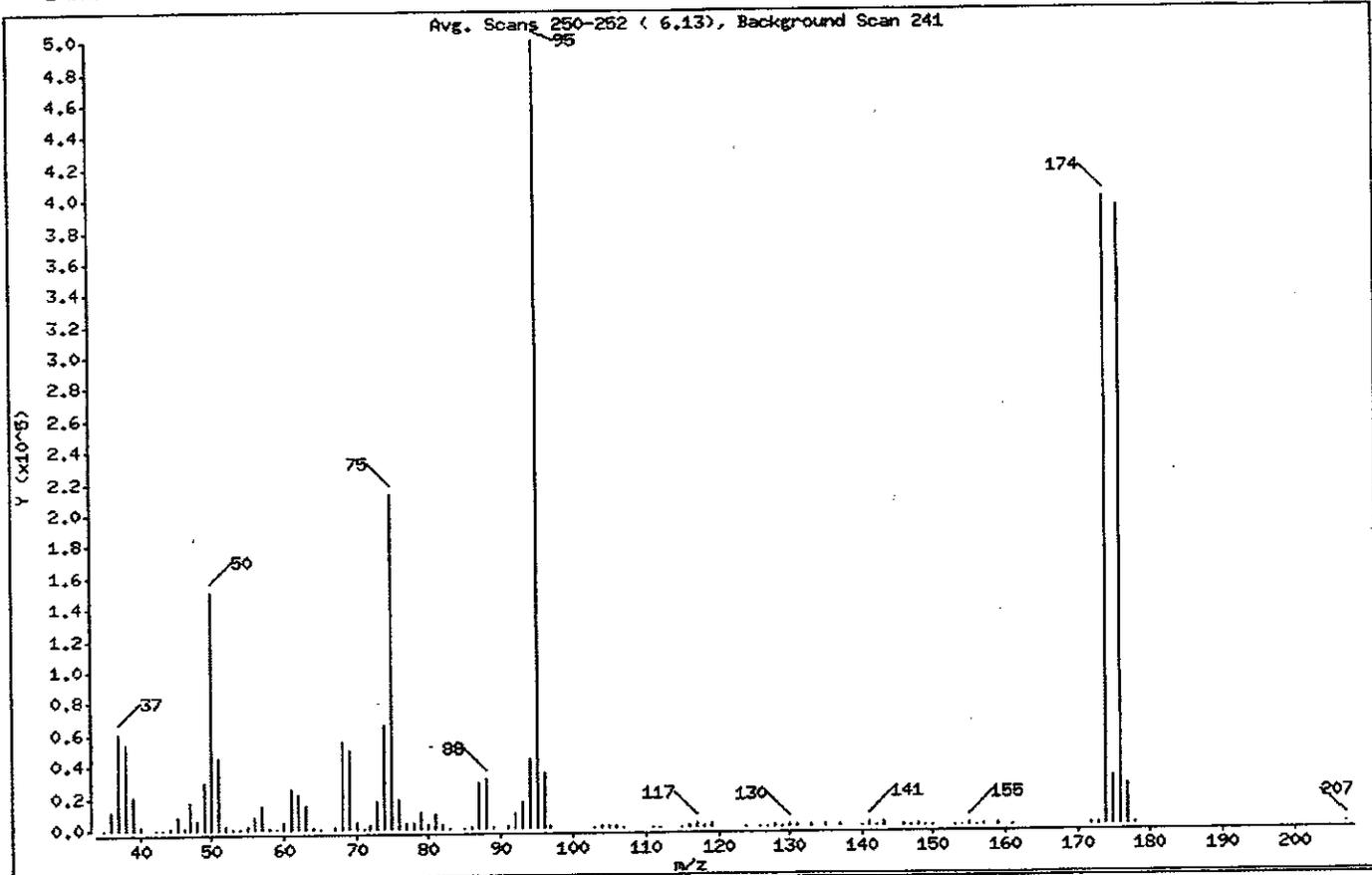
Sample Info: 25ng BFB:BFB DEC18-08;1;3;

Operator: lom01518

Column phase: DB-624

Column diameter: 0.25

1 bfb



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 30.21 |
| 75 | 30.00 - 80.00% of mass 95 | 42.52 |
| 96 | 5.00 - 9.00% of mass 95 | 6.97 |
| 173 | Less than 2.00% of mass 174 | 0.34 (0.43) |
| 174 | 50.00 - 100.00% of mass 95 | 79.88 |
| 175 | 5.00 - 9.00% of mass 174 | 5.87 (7.35) |
| 176 | 95.00 - 101.00% of mass 174 | 78.58 (98.37) |
| 177 | 5.00 - 9.00% of mass 176 | 5.16 (6.57) |

Date : 18-MAR-2009 16:04

Client ID: 25ng BFB

Instrument: SH08359.i

Sample Info: 25ng BFB:BFB DEC18-08:1:3;

Operator: lca01518

Column phase: DB-624

Column diameter: 0.25

Data File: sm18t04.d

Spectrum: Avg. Scans 250-252 (6.13), Background Scan 241

Location of Maximum: 96.00

Number of points: 105

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|-------|--------|--------|--------|--------|--------|
| \| 35.00 | 139 | \| 63.00 | 15496 | \| 93.00 | 16072 | \| 140.00 | 159 |
| \| 36.00 | 10983 | \| 64.00 | 1409 | \| 94.00 | 43928 | \| 141.00 | 2452 |
| \| 37.00 | 61424 | \| 65.00 | 354 | \| 95.00 | 500160 | \| 142.00 | 406 |
| \| 38.00 | 54512 | \| 67.00 | 1340 | \| 96.00 | 34840 | \| 143.00 | 2381 |
| \| 39.00 | 20288 | \| 68.00 | 54808 | \| 97.00 | 1128 | \| 146.00 | 847 |
| \| 40.00 | 1736 | \| 69.00 | 49288 | \| 103.00 | 272 | \| 147.00 | 366 |
| \| 42.00 | 179 | \| 70.00 | 4123 | \| 104.00 | 1437 | \| 148.00 | 821 |
| \| 43.00 | 562 | \| 71.00 | 178 | \| 105.00 | 679 | \| 149.00 | 331 |
| \| 44.00 | 1144 | \| 72.00 | 2268 | \| 106.00 | 1655 | \| 150.00 | 161 |
| \| 45.00 | 8510 | \| 73.00 | 17800 | \| 107.00 | 547 | \| 153.00 | 376 |
| \| 46.00 | 689 | \| 74.00 | 65360 | \| 111.00 | 126 | \| 154.00 | 163 |
| \| 47.00 | 17360 | \| 75.00 | 212672 | \| 112.00 | 335 | \| 155.00 | 931 |
| \| 48.00 | 6091 | \| 76.00 | 18600 | \| 115.00 | 561 | \| 156.00 | 245 |
| \| 49.00 | 30408 | \| 77.00 | 3606 | \| 116.00 | 1196 | \| 157.00 | 675 |
| \| 50.00 | 151040 | \| 78.00 | 3272 | \| 117.00 | 1928 | \| 159.00 | 672 |
| \| 51.00 | 45248 | \| 79.00 | 9958 | \| 118.00 | 1342 | \| 161.00 | 239 |
| \| 52.00 | 1971 | \| 80.00 | 2628 | \| 119.00 | 1833 | \| 172.00 | 598 |
| \| 53.00 | 184 | \| 81.00 | 9712 | \| 124.00 | 282 | \| 173.00 | 1705 |
| \| 54.00 | 80 | \| 82.00 | 1827 | \| 126.00 | 452 | \| 174.00 | 399552 |
| \| 55.00 | 1785 | \| 83.00 | 242 | \| 127.00 | 139 | \| 175.00 | 29360 |
| \| 56.00 | 8004 | \| 85.00 | 211 | \| 128.00 | 1460 | \| 176.00 | 393024 |
| \| 57.00 | 14921 | \| 86.00 | 727 | \| 129.00 | 514 | \| 177.00 | 25808 |
| \| 58.00 | 917 | \| 87.00 | 28992 | \| 130.00 | 1545 | \| 178.00 | 796 |
| \| 59.00 | 51 | \| 88.00 | 30912 | \| 131.00 | 738 | \| 207.00 | 123 |
| \| 60.00 | 4866 | \| 89.00 | 603 | \| 133.00 | 695 | | |
| \| 61.00 | 24728 | \| 91.00 | 1334 | \| 135.00 | 712 | | |
| \| 62.00 | 22392 | \| 92.00 | 8870 | \| 137.00 | 582 | | |

Data File: /chem/SH08359.i/09mar19a.b/sm19t01.d

Date : 19-MAR-2009 15:56

Client ID: 25ng BFB

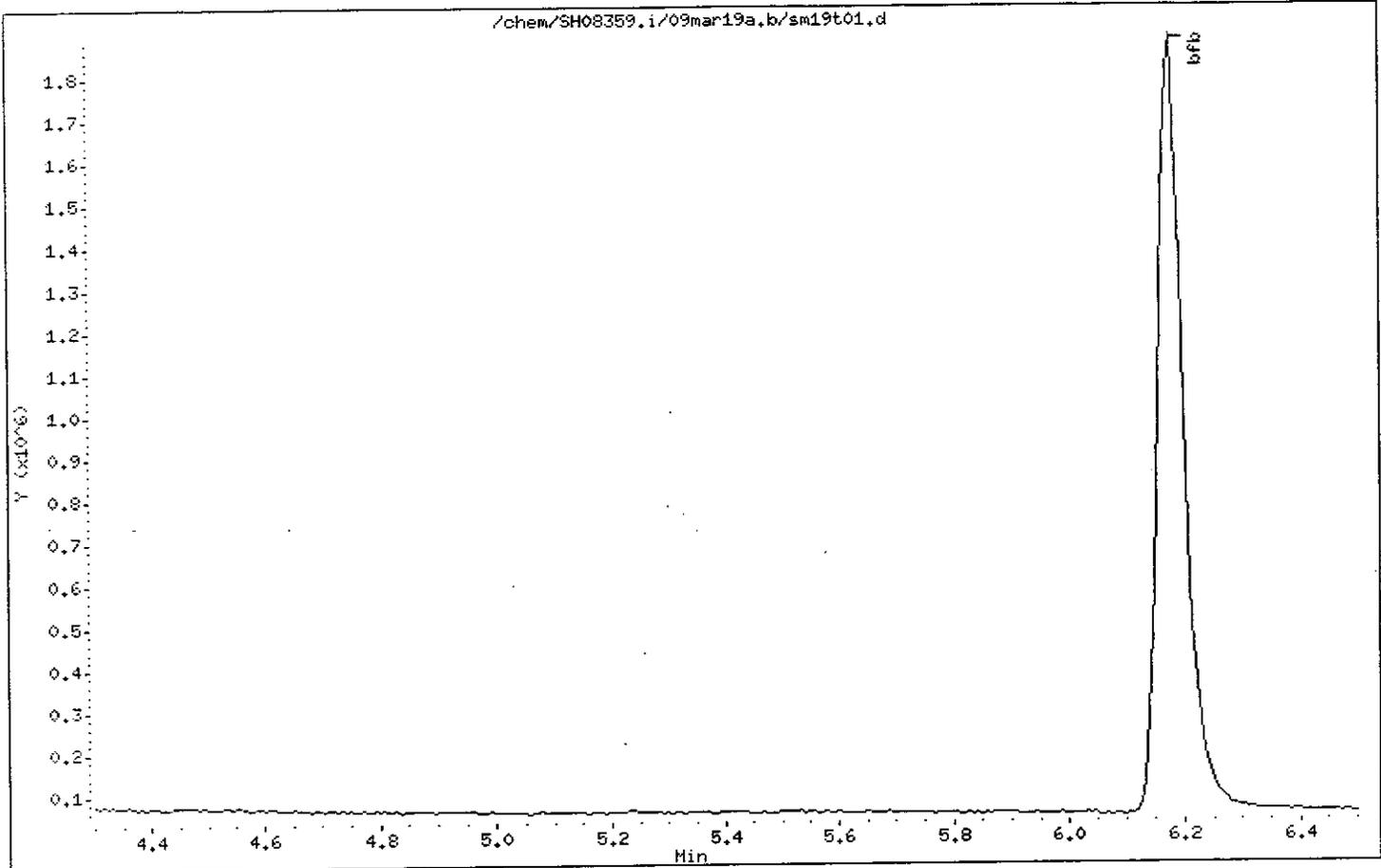
Instrument: SH08359.i

Sample Info: 25ng BFB:BFB DEC18-08;1;3;

Operator: lcm01518

Column phase: DB-624

Column diameter: 0.25



lcm
3/19/09

Date : 19-MAR-2009 15:56

Client ID: 25ng BFB

Instrument: SH08359.i

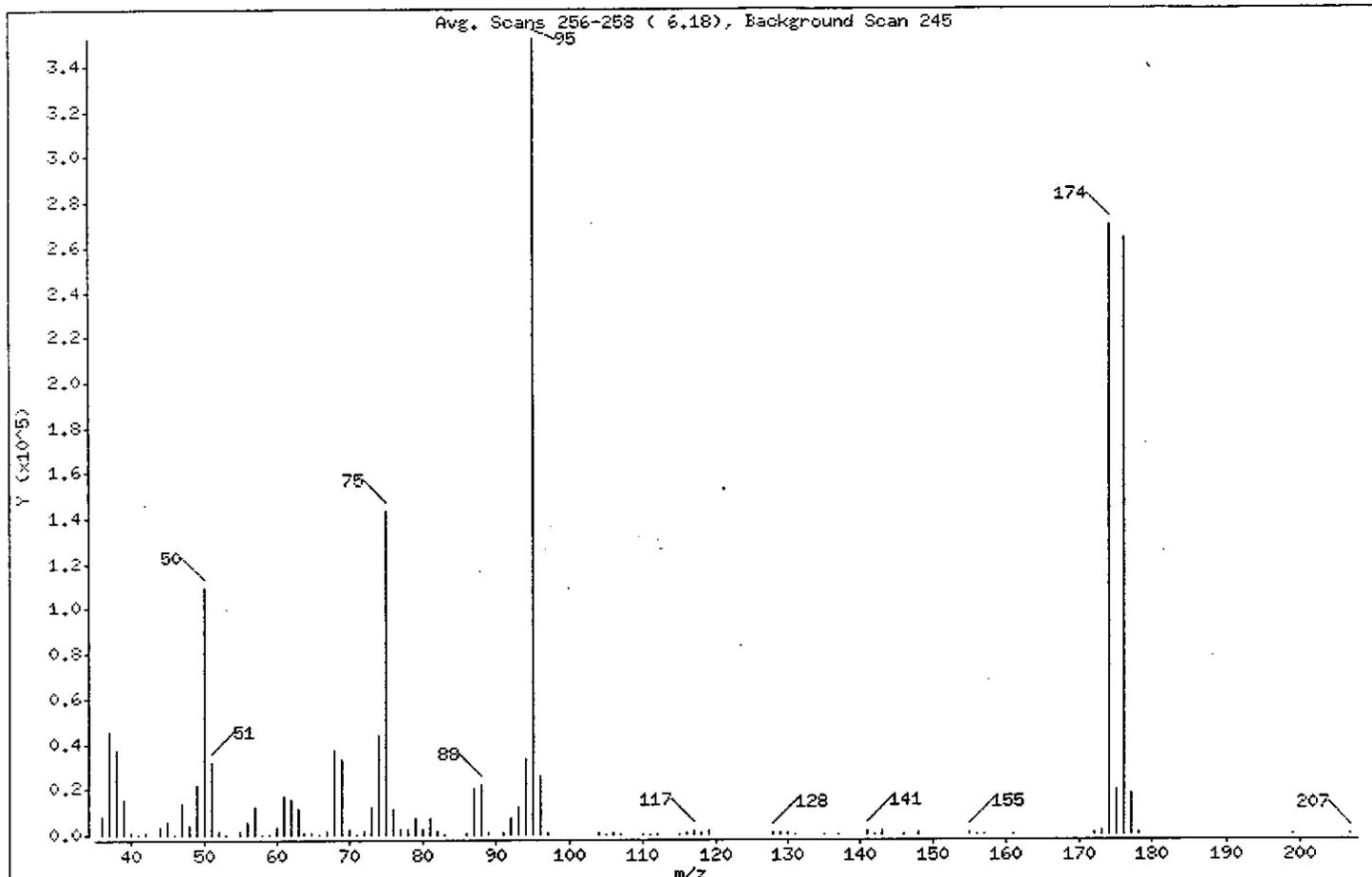
Sample Info: 25ng BFB:BFB DEC18-08;1;3;

Operator: lcm01518

Column phase: DB-624

Column diameter: 0.25

1 bfb



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 30.96 |
| 75 | 30.00 - 80.00% of mass 95 | 40.75 |
| 96 | 5.00 - 9.00% of mass 95 | 7.32 |
| 173 | Less than 2.00% of mass 174 | 0.57 (0.74) |
| 174 | 50.00 - 100.00% of mass 95 | 76.64 |
| 175 | 5.00 - 9.00% of mass 174 | 5.42 (7.08) |
| 176 | 95.00 - 101.00% of mass 174 | 75.02 (97.90) |
| 177 | 5.00 - 9.00% of mass 176 | 5.03 (6.70) |

Date : 19-MAR-2009 15:56

Client ID: 25ng BFB

Instrument: SH08359.i

Sample Info: 25ng BFB;BFB DEC18-08;1;3;

Operator: lcn01518

Column phase: DB-624

Column diameter: 0.25

Data File: sm19t01.d

Spectrum: Avg. Scans 256-258 (6.18), Background Scan 245

Location of Maximum: 95.00

Number of points: 93

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|-------|--------|--------|--------|--------|--------|
| 36.00 | 8144 | 62.00 | 15437 | 88.00 | 21912 | 131.00 | 322 |
| 37.00 | 45120 | 63.00 | 11252 | 89.00 | 1109 | 135.00 | 389 |
| 38.00 | 36960 | 64.00 | 916 | 91.00 | 780 | 137.00 | 368 |
| 39.00 | 15018 | 65.00 | 659 | 92.00 | 7042 | 141.00 | 1900 |
| 40.00 | 603 | 66.00 | 246 | 93.00 | 11945 | 142.00 | 185 |
| 41.00 | 43 | 67.00 | 1372 | 94.00 | 32944 | 143.00 | 1701 |
| 42.00 | 608 | 68.00 | 36944 | 95.00 | 352128 | 146.00 | 360 |
| 44.00 | 3348 | 69.00 | 33192 | 96.00 | 25784 | 148.00 | 631 |
| 45.00 | 5738 | 70.00 | 2822 | 97.00 | 1110 | 155.00 | 627 |
| 46.00 | 124 | 71.00 | 86 | 104.00 | 1064 | 156.00 | 206 |
| 47.00 | 13624 | 72.00 | 1611 | 105.00 | 289 | 157.00 | 382 |
| 48.00 | 4122 | 73.00 | 12183 | 106.00 | 1148 | 161.00 | 218 |
| 49.00 | 22232 | 74.00 | 43512 | 107.00 | 161 | 172.00 | 830 |
| 50.00 | 109040 | 75.00 | 143488 | 110.00 | 121 | 173.00 | 2003 |
| 51.00 | 31304 | 76.00 | 11594 | 111.00 | 125 | 174.00 | 269888 |
| 52.00 | 1505 | 77.00 | 2371 | 112.00 | 122 | 175.00 | 19096 |
| 53.00 | 76 | 78.00 | 2465 | 115.00 | 126 | 176.00 | 264192 |
| 55.00 | 1366 | 79.00 | 6963 | 116.00 | 709 | 177.00 | 17712 |
| 56.00 | 6005 | 80.00 | 2510 | 117.00 | 1305 | 178.00 | 619 |
| 57.00 | 12349 | 81.00 | 7585 | 118.00 | 927 | 199.00 | 194 |
| 58.00 | 277 | 82.00 | 1784 | 119.00 | 1252 | 207.00 | 284 |
| 59.00 | 149 | 83.00 | 121 | 128.00 | 1025 | | |
| 60.00 | 3154 | 86.00 | 593 | 129.00 | 551 | | |
| 61.00 | 17120 | 87.00 | 19888 | 130.00 | 999 | | |

Data File: /chem/SH08359.i/09mar20a.b/sm20t01.d

Date : 20-MAR-2009 05:55

Client ID: 25ng BFB

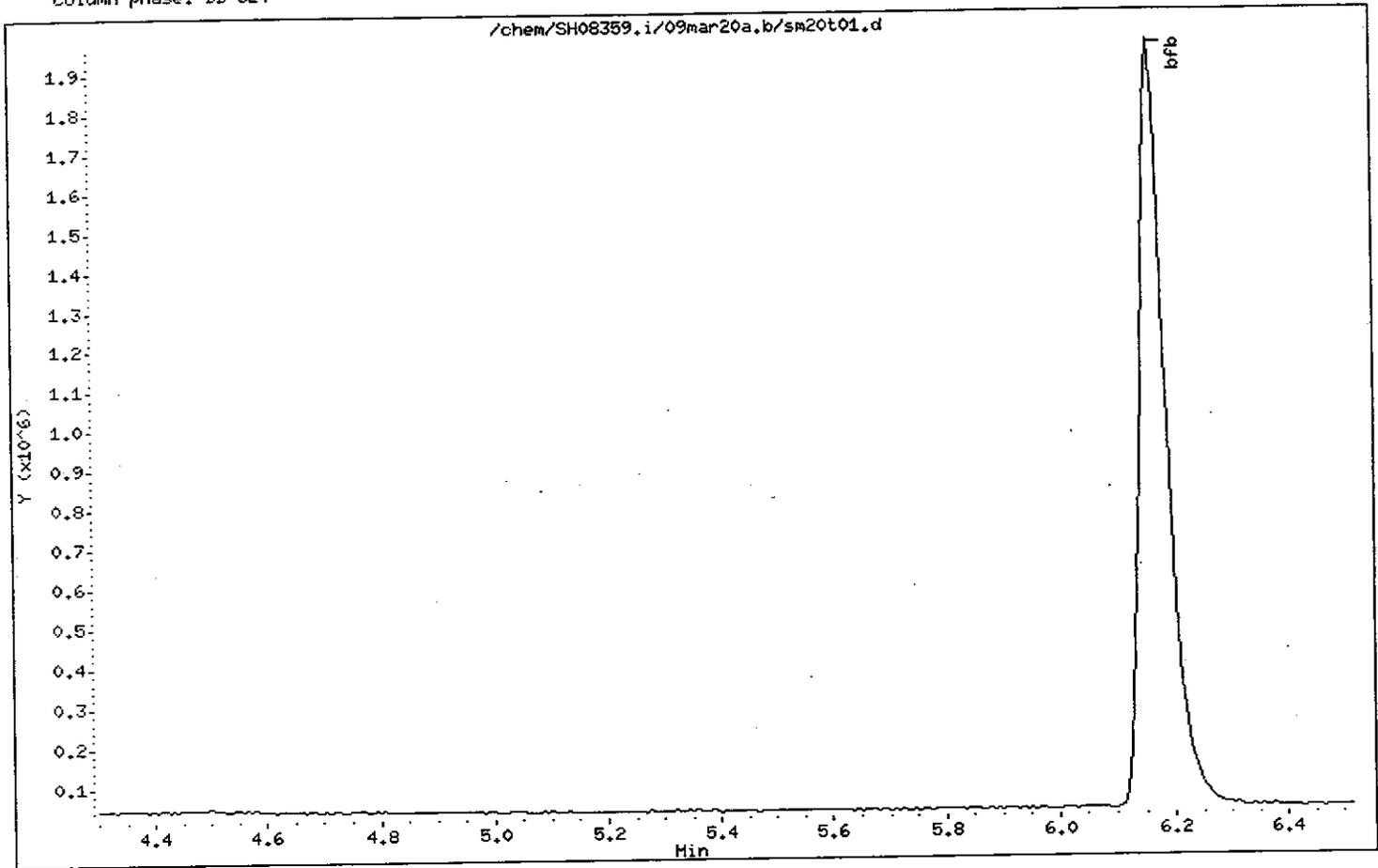
Instrument: SH08359.i

Sample Info: 25ng BFB;BFB DEC18-08;1;3;

Operator: amd00492

Column phase: DB-624

Column diameter: 0.25



Handwritten:
bfb
3/10/09

Date : 20-MAR-2009 05:55

Client ID: 25ng BFB

Instrument: SH08359.i

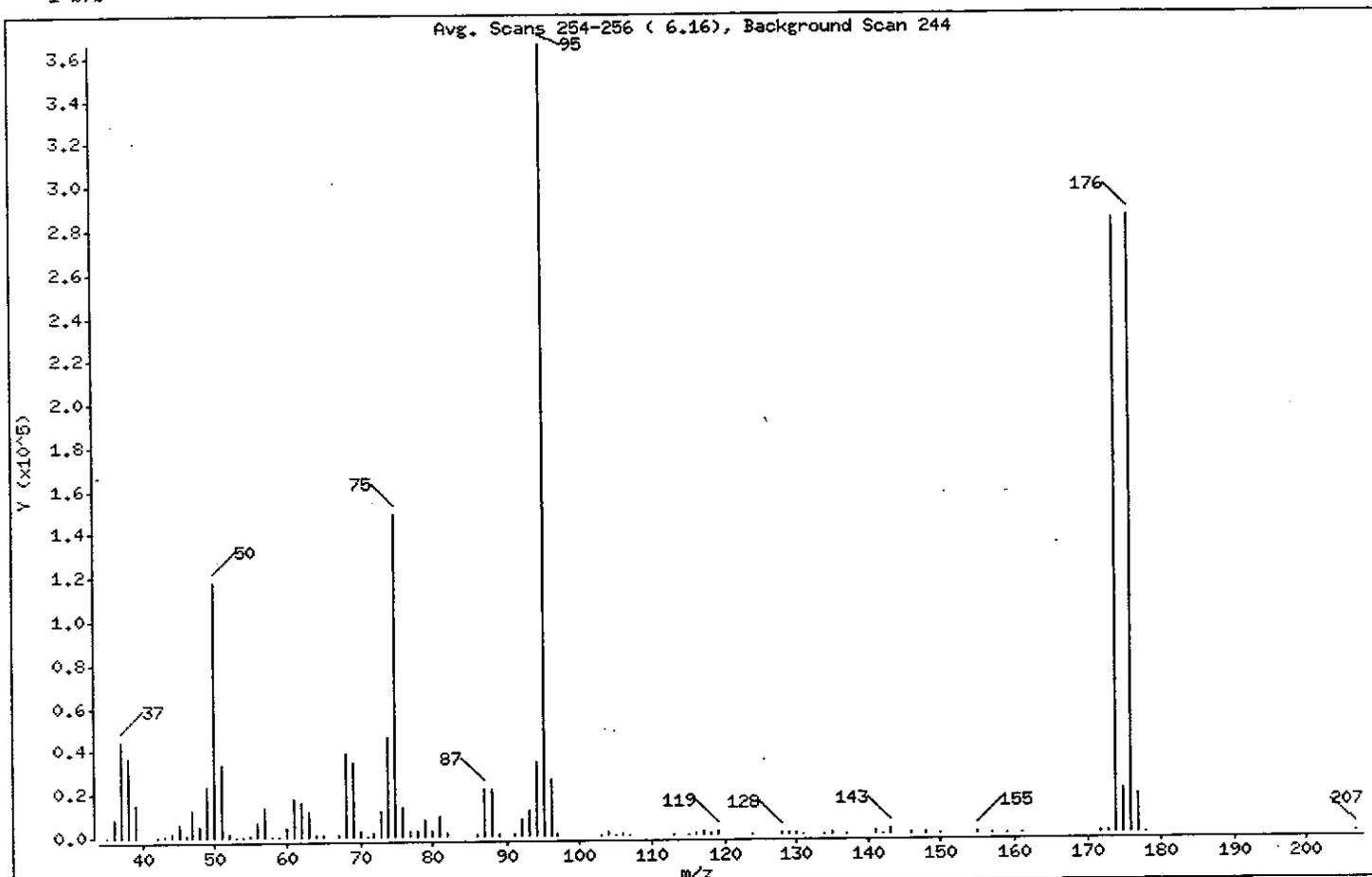
Sample Info: 25ng BFB:BFB DEC18-08;1;3;

Operator: amd00492

Column phase: DB-624

Column diameter: 0.25

1 bfb



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 32.25 |
| 75 | 30.00 - 80.00% of mass 95 | 40.80 |
| 96 | 5.00 - 9.00% of mass 95 | 7.02 |
| 173 | Less than 2.00% of mass 174 | 0.16 (0.20) |
| 174 | 50.00 - 100.00% of mass 95 | 77.76 |
| 175 | 5.00 - 9.00% of mass 174 | 5.47 (7.03) |
| 176 | 95.00 - 101.00% of mass 174 | 77.87 (100.15) |
| 177 | 5.00 - 9.00% of mass 176 | 4.90 (6.29) |

Date : 20-MAR-2009 05:55

Client ID: 25ng BFB

Instrument: SH08359.i

Sample Info: 25ng BFB:BFB DEC18-08;1;3;

Operator: amd00492

Column phase: DB-624

Column diameter: 0.25

Data File: sm20t01.d

Spectrum: Avg. Scans 254-256 (6.16), Background Scan 244

Location of Maximum: 95.00

Number of points: 93

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|-------|--------|--------|--------|--------|--------|
| 35.00 | 328 | 61.00 | 17936 | 89.00 | 1009 | 134.00 | 153 |
| 36.00 | 8290 | 62.00 | 16188 | 91.00 | 596 | 135.00 | 461 |
| 37.00 | 44784 | 63.00 | 11594 | 92.00 | 7839 | 137.00 | 375 |
| 38.00 | 36816 | 64.00 | 1203 | 93.00 | 12067 | 141.00 | 1773 |
| 39.00 | 14865 | 65.00 | 603 | 94.00 | 34328 | 142.00 | 340 |
| 42.00 | 307 | 67.00 | 813 | 95.00 | 365696 | 143.00 | 2354 |
| 43.00 | 556 | 68.00 | 38504 | 96.00 | 25656 | 146.00 | 496 |
| 44.00 | 1746 | 69.00 | 34344 | 97.00 | 893 | 148.00 | 654 |
| 45.00 | 6257 | 70.00 | 2626 | 103.00 | 143 | 150.00 | 164 |
| 46.00 | 517 | 71.00 | 96 | 104.00 | 1353 | 155.00 | 755 |
| 47.00 | 12515 | 72.00 | 1736 | 105.00 | 101 | 157.00 | 393 |
| 48.00 | 4938 | 73.00 | 12055 | 106.00 | 1119 | 159.00 | 160 |
| 49.00 | 23320 | 74.00 | 46136 | 107.00 | 324 | 161.00 | 225 |
| 50.00 | 117912 | 75.00 | 149184 | 113.00 | 121 | 172.00 | 1001 |
| 51.00 | 33528 | 76.00 | 13115 | 115.00 | 181 | 173.00 | 574 |
| 52.00 | 1886 | 77.00 | 2612 | 116.00 | 880 | 174.00 | 284352 |
| 53.00 | 31 | 78.00 | 2346 | 117.00 | 1451 | 175.00 | 19992 |
| 54.00 | 93 | 79.00 | 7908 | 118.00 | 907 | 176.00 | 284736 |
| 55.00 | 1259 | 80.00 | 2280 | 119.00 | 1521 | 177.00 | 17896 |
| 56.00 | 6648 | 81.00 | 8966 | 124.00 | 139 | 178.00 | 202 |
| 57.00 | 13096 | 82.00 | 2046 | 128.00 | 1179 | 207.00 | 45 |
| 58.00 | 352 | 86.00 | 583 | 129.00 | 541 | | |
| 59.00 | 100 | 87.00 | 22008 | 130.00 | 1067 | | |
| 60.00 | 3908 | 88.00 | 21456 | 131.00 | 349 | | |

File: /chem/SH08359.i/09mar19a.b/sml9b01.d
Sample: VBLKS54;VBLKS54;1;3;;;DRAPER;
Injected At:19-MAR-2009 17:13
Calibration Time: 18-MAR-2009 16:28
Target Method: 8524RV4.m
Blank Reference:
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sml9c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42: Fluorobenzene | 7.784(0.000) | 817 | 96 | 1261729(-9) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73: 4-Bromofluorobenzene | (1) | 11.993(0.000) | 174 | 240299 | 4.693 | 94% | | 80 - 120 |
| 90: 1,2-Dichlorobenzene-d4 | (1) | 13.277(0.000) | 152 | 197995 | 4.363 | 87% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1: Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2: Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3: Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4: Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5: Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7: Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10: 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17: Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 20: trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22: 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26: cis-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 27: 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32: Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34: Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35: 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37: Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38: 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39: Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40: 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43: Trichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 44: 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46: Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47: Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50: cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

VBLKS54

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKS54

File: /chem/SH08359.i/09mar19a.b/sml9b01.d
Sample: VBLKS54;VBLKS54;1;3;;;DRAPER;
Injected At:19-MAR-2009 17:13
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference:
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA
Analyst:LCM01518
Instrument ID:SH08359.i
Standard Reference: sml9c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:

| Target Compounds | I.S. | | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|-------------------------------|------|-------------|------|------|-------------|-------------|-------|-----------|-------|
| | Ref. | RT (+/-RRT) | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 53: Toluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 55: trans-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 57: 1,1,2-Trichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 58: Tetrachloroethene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 59: 1,3-Dichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 61: Dibromochloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 62: 1,2-Dibromoethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 64: Chlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 65: 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 66: Ethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 67: m+p-Xylene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 68: o-Xylene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 69: Styrene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 71: Bromoform | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 72: Isopropylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 74: 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 75: Bromobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 76: 1,2,3-Trichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 78: n-Propylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 79: 2-Chlorotoluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 80: 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 81: 4-Chlorotoluene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 82: tert-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 84: 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |

= CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

WAT09 8247

VBLKS54

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKS54

File: /chem/SH08359.i/09mar19a.b/sml9b01.d
Sample: VBLKS54;VBLKS54;1:3;;;DRAPER;
Injected At: 19-MAR-2009 17:13
Calibration Time: 18-MAR-2009 16:28
Target Method: 8524RV4.m
Blank Reference:
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sml9c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|---------------------------------|-----------|-------------|------|------|-------------|-------------|-------|-----------|-------|
| | | | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 35: sec Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 36: p-Isopropyltoluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 37: 1,3-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 38: 1,4-Dichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 39: n-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 91: 1,2-Dichlorobenzene | (1) | | | | ND | ND | | 0.40 | 0.50 |
| 93: 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 95: 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 96: Hexachlorobutadiene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 97: Naphthalene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 98: 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: mm Date: 3/23/09

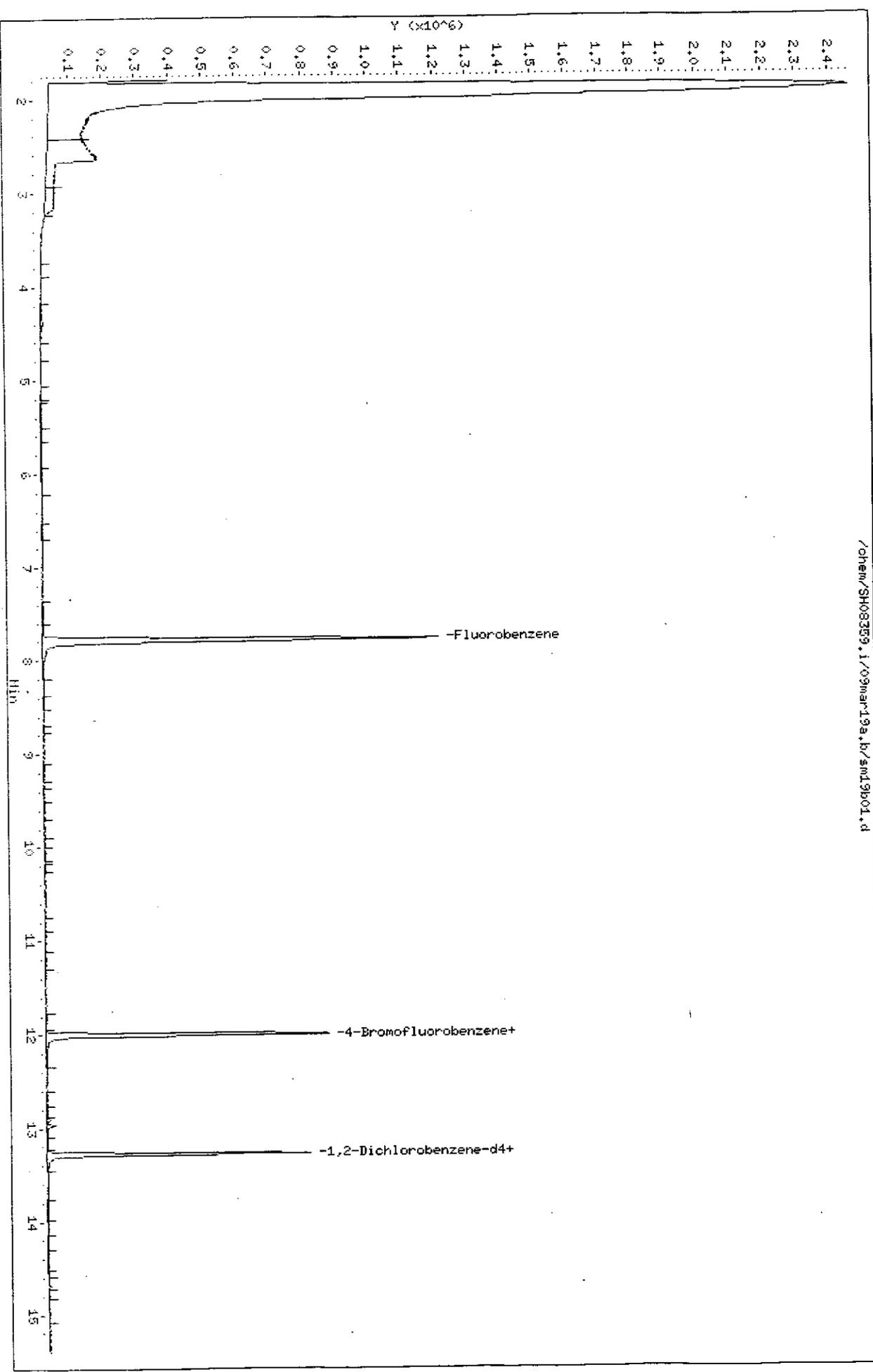
Auditor: Ally Date: 3/24/09

Date File: /chem/SH08359.1/09mar19a,b/sml9b01.d
Date: 19-MAR-2009 17:13
Client ID: WBLK54
Sample Info: WBLK54;WBLK54;113;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: LCH01518
Column diameter: 0.25

M. J. C.
3/19/09

SH08359.1 249



/chem/SH08359.1/09mar19a,b/sml9b01.d

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sml19b01.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 17:13 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 23-Mar-2009 16:39 rvn00349

Sample Name: VBLKS54

Lab Sample ID: VBLKS54

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1261729 | 5.000 |
| 73)\$4-Bromofluorobenzene | (1) | 11.993 | 174 | 240299 | 4.693 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 197995 | 4.363 |

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

VBLKS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKS55

File: /chem/SH08359.i/09mar20a.b/sm20b01.d
Sample: VBLKS55;VBLKS55;1;3;;;;
Injected At: 20-MAR-2009 07:07
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference:
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA Matrix: WATER
Analyst: amd00492 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00 Bottle Code:
Units: ug/L

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.769(0.007) | 815 | 96 | 1133851(-12) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.986(-0.001) | 174 | 227373 | 4.941 | 99% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(-0.002) | 152 | 192294 | 4.716 | 94% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|-------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 6) Dichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 8) Ethyl Ether | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 9) Acrolein | (1) | | | | ND | ND | | | 15.00 | 50.00 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 11) Freon 113 | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 12) Acetone | (1) | | | | ND | ND | | | 3.00 | 5.00 |
| 13) Methyl Iodide | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 14) Carbon Disulfide | (1) | | | | ND | ND | | | 0.40 | 2.00 |
| 15) Allyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 18) t-Butyl Alcohol | (1) | | | | ND | ND | | | 5.00 | 25.00 |
| 19) Acrylonitrile | (1) | | | | ND | ND | | | 2.00 | 10.00 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 21) Methyl Tertiary Butyl Ether | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 24) di-Isopropyl Ether | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 25) Ethyl t-Butyl Ether | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

VBLKS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKS55

File: /chem/SH08359.i/09mar20a.b/sm20b01.d
Sample: VBLKS55;VBLKS55;1;3;;;;
Injected At: 20-MAR-2009 07:07
Calibration Time: 18-MAR-2009 16:28
Target Method: SS24RV4.m
Blank Reference:
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA
Analyst: amd00492
Instrument ID: SH08359.1
Standard Reference: sm20c01.d
Prep Factor: 1.00
Units: ug/L
Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. Limit | LOQ |
|-----------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------------|-------|
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 28) 2-Butanone | (1) | | | | ND | ND | | 2.00 | 5.00 |
| 29) Propionitrile | (1) | | | | ND | ND | | 3.00 | 10.00 |
| 30) Methyl Acrylate | (1) | | | | ND | ND | | 0.50 | 5.00 |
| 31) Methacrylonitrile | (1) | | | | ND | ND | | 1.00 | 5.00 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 33) Tetrahydrofuran | (1) | | | | ND | ND | | 2.00 | 5.00 |
| 34) Chloroform | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 36) 1-Chlorobutane | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 41) t-Amyl Methyl Ether | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 45) Methyl Methacrylate | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 48) 2-Nitropropane | (1) | | | | ND | ND | | 9.00 | 50.00 |
| 49) Chloroacetonitrile | (1) | | | | ND | ND | | 7.00 | 50.00 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 51) 4-Methyl-2-Pentanone | (1) | | | | ND | ND | | 0.60 | 5.00 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

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WAT89 8252

VBLKS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKS55

File: /chem/SH08359.i/09mar20a.b/sm20b01.d
Sample: VBLKS55;VBLKS55;1;3;;;;
Injected At: 20-MAR-2009 07:07
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference:
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA Matrix: WATER
Analyst: amd00492 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|-----|
| 52) 1,1-Dichloropropanone | (1) | | | | ND | ND | | 9.00 | 50.00 | |
| 53) Toluene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 56) Ethyl Methacrylate | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 58) Tetrachloroethene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 60) 2-Hexanone | (1) | | | | ND | ND | | 0.60 | 5.00 | |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 64) Chlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 66) Ethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 67) m+p-Xylene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 68) o-Xylene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 69) Styrene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 71) Bromoform | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 75) Bromobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 77) trans-1,4-Dichloro-2-Butene | (1) | | | | ND | ND | | 1.00 | 5.00 | |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | 0.10 | 0.50 | |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

VBLKS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKS55

File: /chem/SH08359.i/09mar20a.b/sm20b01.d
Sample: VBLKS55;VBLKS55;1;3;;;;
Injected At: 20-MAR-2009 07:07
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference:
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA Matrix: WATER
Analyst: amd00492 Level: Low
Instrument ID: SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|---------------------------------|-----------|-------------|------|------|-------------|-------------|-------|-----------|-------|
| | | | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 83) Pentachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 88) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 92) Hexachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | 0.40 | 1.00 |
| 94) Nitrobenzene | (1) | | | | ND | ND | | 5.00 | 50.00 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: Lizandale Date: 3/20/09

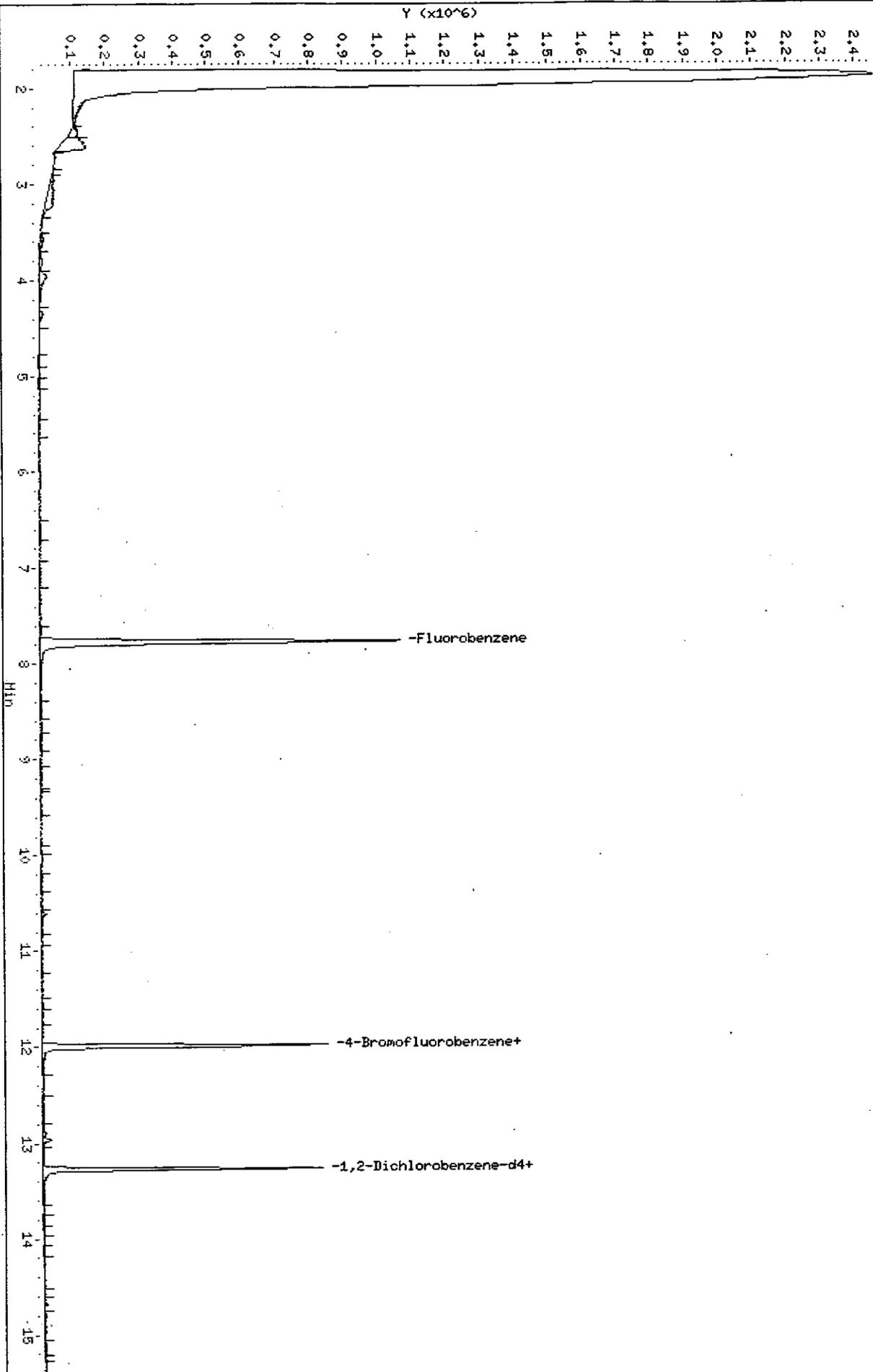
Auditor: RSK/71 Date: 3/20/09

Data File: /chem/SH08359.1/09mar20a.b/sm20b01.d
Date : 20-MAR-2009 07:07
Client ID: VBLKSS5
Sample Info: VBLKSS5;VBLKSS5;1;3;1;1;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: amd00492
Column diameter: 0.25

Handwritten:
L. J. J. J.
3/10/09

/chem/SH08359.1/09mar20a.b/sm20b01.d



Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20b01.d Instrument ID: SH08359.i
Injection date and time: 20-MAR-2009 07:07 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 20-Mar-2009 07:24 Automation

Sample Name: VBLKS55

Lab Sample ID: VBLKS55

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|------------------------------|--------------|--------|------|---------|----------------------|
| ===== 42) *Fluorobenzene | (1) | 7.769 | 96 | 1133851 | 5.000 |
| 73) \$4-Bromofluorobenzene | (1) | 11.986 | 174 | 227373 | 4.941 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 192294 | 4.716 |

* = Compound is an internal standard.
\$ = Compound is a surrogate standard.

110IN

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5624005

File: /chem/SH08359.i/09mar19a.b/sm19s06.d
Sample: 110IN;5624005;1;0;;DRAPER;
Injected At:19-MAR-2009 20:07
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:38A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.784(0.000) | 817 | .96 | 1113247(-20) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(0.000) | 174 | 222328 | 4.921 | 98% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.277(0.000) | 152 | 177833 | 4.442 | 89% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|-------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | | | | ND | ND | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 39) Benzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | 8.246(0.000) | 95 | 23344 | 0.334 | 0.33 | | J | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | | | | ND | ND | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

110IN

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5624005

File: /chem/SH08359.i/09mar19a.b/sm19s06.d
Sample: 110IN;5624005;1;0;;;DRAPER;
Injected At:19-MAR-2009 20:07
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:38A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|-------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|-----|
| 53) Toluene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 55) trans-1,3-Dichloropropene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 57) 1,1,2-Trichloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 58) Tetrachloroethene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 59) 1,3-Dichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 61) Dibromochloromethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 62) 1,2-Dibromoethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 64) Chlorobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 65) 1,1,1,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 66) Ethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 67) m+p-Xylene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 68) o-Xylene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 69) Styrene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 71) Bromoform | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 72) Isopropylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 74) 1,1,2,2-Tetrachloroethane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 75) Bromobenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 76) 1,2,3-Trichloropropane | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 78) n-Propylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 79) 2-Chlorotoluene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 80) 1,3,5-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 81) 4-Chlorotoluene | (1) | | | | ND | ND | | 0.20 | 0.50 | |
| 82) tert-Butylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |
| 84) 1,2,4-Trimethylbenzene | (1) | | | | ND | ND | | 0.10 | 0.50 | |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

110IN

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5624005

File: /chem/SH08359.i/09mar19a.b/sml9s06.d
Sample: 110IN;5624005;1;0;;;DRAPER;
Injected At:19-MAR-2009 20:07
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:38A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|-------------|------|------|-------------------|-------------------|-------------|-----------------|-------|------|
| 85) sec-Butylbenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 88) 1,4-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 89) n-Butylbenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | | | | ND | ND | | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | | | | ND | ND | | | 0.40 | 0.50 |
| 95) 1,2,4-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | | | | ND | ND | | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | | | | ND | ND | | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: MM Date: 3/23/09

Auditor: MM Date: 3/24/09

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s06.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 20:07 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 18-MAR-2009 16:28
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110IN

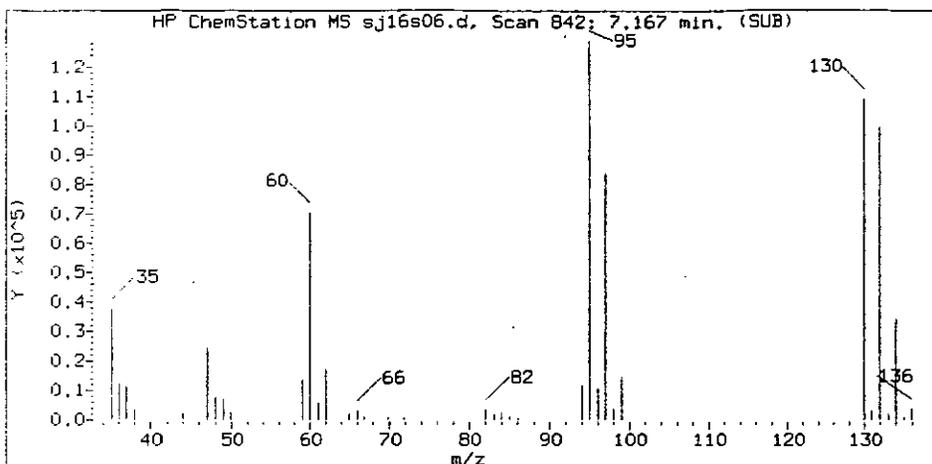
Lab Sample ID: 5624005

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-----------------------------|--------------|--------|------|---------|----------------------|
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1113247 | 5.000 |
| 43) Trichloroethene | (1) | 8.246 | 95 | 23344 | 0.334 |
| 73)\$4-Bromofluorobenzene | (1) | 11.993 | 174 | 222328 | 4.921 |
| 90)\$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 177833 | 4.442 |

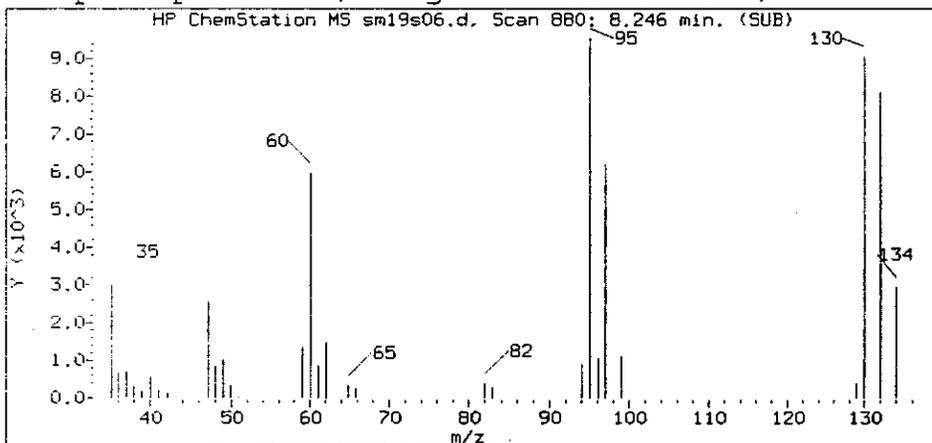
* = Compound is an internal standard.

\$ = Compound is a surrogate standard.

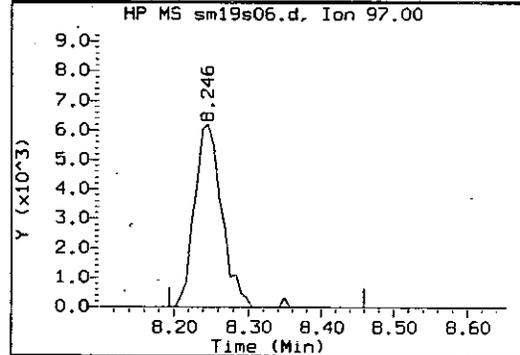
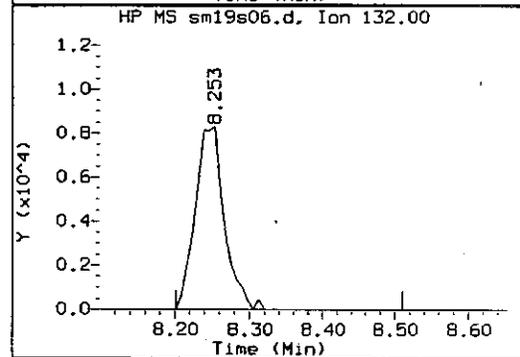
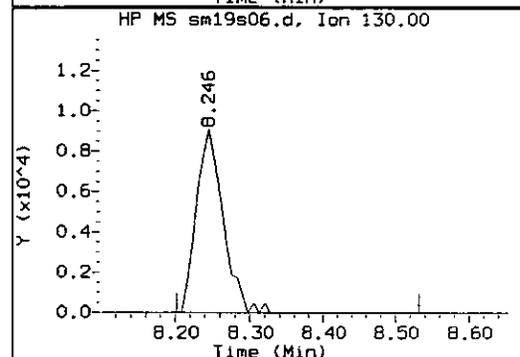
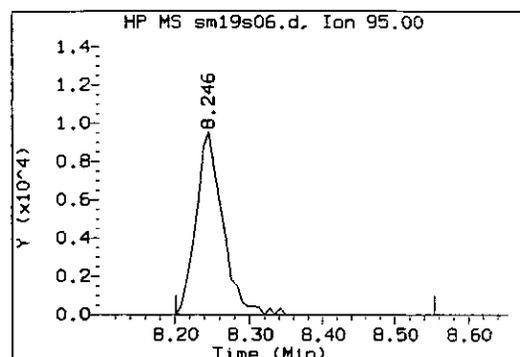
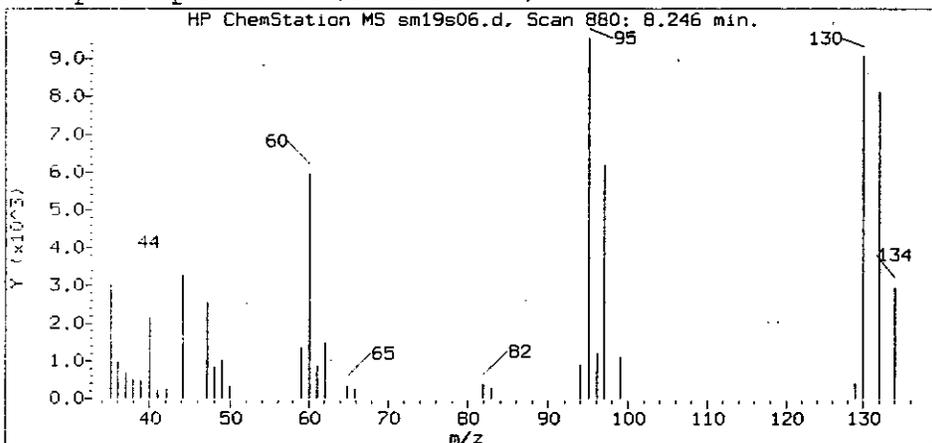
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/SH08359.i/09mar19a.b/sm19s06.d
 Injection date and time: 19-MAR-2009 20:07

Instrument ID: SH08359.i
 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110IN

Lab Sample ID: 5624005

Compound Number : 43
 Compound Name : Trichloroethene
 Scan Number : 880
 Retention Time (minutes) : 8.246
 Quant Ion : 95.0
 Area (flag) : 23344
 Concentration (ug/L) : 0.3339

WAT09 8262

110INMS

Lancaster Laboratories Quantitation Report GC/MS Volatiles

5624006

File: /chem/SH08359.i/09mar19a.b/sm19s07.d
 Sample: 110INMS;5624006;1;3;MS;;DRAPER;
 Injected At: 19-MAR-2009 20:34
 Calibration Time: 18-MAR-2009 16:28
 Target Method: S524RV4.m
 Blank Reference: sm19b01.d
 Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
 Batch: S090701BA Matrix: WATER
 Analyst: LCM01518 Level: Low
 Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
 Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
 Prep Factor: 1.00
 Units: ug/L Bottle Code: 38A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.784(0.000) | 817 | 96 | 1269211(-8) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(0.000) | 174 | 265078 | 5.146 | 103% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.277(0.000) | 152 | 245004 | 5.367 | 107% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | 2.137(-0.001) | 85 | 227945 | 2.187 | 2.19 | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | 2.284(-0.001) | 50 | 784324 | 2.635 | 2.63 | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | 2.423(-0.002) | 62 | 450599 | 2.115 | 2.11 | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | 2.761(0.000) | 94 | 249909 | 2.608 | 2.61 | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | 2.871(-0.001) | 64 | 265808 | 2.382 | 2.38 | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | 3.208(-0.001) | 101 | 247631 | 2.394 | 2.39 | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | 3.802(-0.001) | 96 | 419257 | 5.232 | 5.23 | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | 4.374(-0.001) | 84 | 405523 | 6.034 | 6.03 | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741(0.000) | 96 | 484125 | 5.575 | 5.58 | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | 5.298(0.001) | 63 | 1115590 | 5.240 | 5.24 | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.127(0.001) | 96 | 435093 | 5.509 | 5.51 | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | 6.156(-0.001) | 77 | 510153 | 5.733 | 5.73 | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | 6.471(0.001) | 128 | 152435 | 5.781 | 5.78 | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | 6.596(0.000) | 83 | 723771 | 5.992 | 5.99 | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904(0.000) | 97 | 518642 | 5.847 | 5.85 | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | 7.146(0.001) | 117 | 449451 | 6.240 | 6.24 | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | 7.131(0.001) | 75 | 627605 | 5.745 | 5.74 | | | 0.10 | 0.50 |
| 39) Benzene | (1) | 7.417(0.001) | 78 | 1677613 | 5.863 | 5.86 | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | 7.425(0.001) | 62 | 395631 | 5.908 | 5.91 | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | 8.239(0.001) | 95 | 481789 | 6.044 | 6.04 | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | 8.495(0.001) | 63 | 538341 | 5.407 | 5.41 | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | 8.627(0.000) | 93 | 147100 | 5.854 | 5.85 | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | 8.803(0.001) | 83 | 418401 | 6.295 | 6.30 | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295(0.000) | 75 | 495300 | 5.743 | 5.74 | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

110INMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5624006

File: /chem/SH08359.i/09mar19a.b/sm19s07.d
Sample: 110INMS;5624006;1;3;MS;;DRAPER;
Injected At:19-MAR-2009 20:34
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 38A

| Target Compounds | I.S. | | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|-------------------------------|------|----------------|------|---------|-------------|-------------|-------|-----------|-------|
| | Ref. | RT (+/-RRT) | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 53) Toluene | (1) | 9.647(0.001) | 92 | 1008579 | 5.813 | 5.81 | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | 9.852(0.001) | 75 | 344317 | 5.834 | 5.83 | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035(0.000) | 83 | 163243 | 6.439 | 6.44 | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | 10.197(0.000) | 166 | 431064 | 5.902 | 5.90 | | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | 10.204(0.000) | 76 | 309266 | 5.776 | 5.78 | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | 10.417(0.001) | 129 | 234016 | 5.964 | 5.96 | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | 10.534(0.001) | 107 | 165790 | 5.566 | 5.57 | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | 10.996(0.000) | 112 | 862000 | 5.698 | 5.70 | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062(0.000) | 131 | 289153 | 5.889 | 5.89 | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | 11.091(0.000) | 106 | 506098 | 5.312 | 5.31 | | 0.10 | 0.50 |
| 67) m+p-Xylene | (1) | 11.194(0.000) | 106 | 1296835 | 11.466 | 11.47 | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | 11.546(0.000) | 106 | 587544 | 5.402 | 5.40 | | 0.10 | 0.50 |
| 69) Styrene | (1) | 11.553(0.000) | 104 | 889569 | 5.905 | 5.90 | | 0.10 | 0.50 |
| 71) Bromoform | (1) | 11.715(0.001) | 173 | 118450 | 6.301 | 6.30 | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | 11.861(0.000) | 120 | 382517 | 5.563 | 5.56 | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096(0.000) | 83 | 187645 | 6.115 | 6.12 | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | 12.133(0.000) | 156 | 304045 | 5.491 | 5.49 | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140(0.001) | 110 | 36846 | 5.609 | 5.61 | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | 12.206(0.001) | 120 | 404490 | 5.901 | 5.90 | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | 12.294(0.000) | 126 | 362550 | 5.846 | 5.85 | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.345(0.001) | 105 | 1140630 | 5.677 | 5.68 | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | 12.382(0.000) | 126 | 377445 | 5.932 | 5.93 | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | 12.624(0.001) | 134 | 270059 | 5.685 | 5.69 | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661(0.001) | 105 | 1140065 | 5.746 | 5.75 | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Page 2 of 3

W0189 8264

110INMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5624006

File: /chem/SH08359.1/09mar19a.b/sm19s07.d
Sample: 110INMS;5624006;1;3;MS;;DRAPER;
Injected At:19-MAR-2009 20:34
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

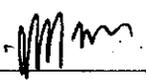
Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA
Analyst:LCM01518
Instrument ID:SH08359.1
Standard Reference: sm19c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:38A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|----------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|-----|
| 35) sec-Butylbenzene | (1) | 12.807(0.000) | 134 | 283539 | 5.754 | 5.75 | | 0.10 | 0.50 | |
| 36) p-Isopropyltoluene | (1) | 12.917(0.000) | 119 | 1148154 | 6.179 | 6.18 | | 0.10 | 0.50 | |
| 37) 1,3-Dichlorobenzene | (1) | 12.910(0.000) | 146 | 594122 | 5.561 | 5.56 | | 0.10 | 0.50 | |
| 38) 1,4-Dichlorobenzene | (1) | 12.983(0.000) | 146 | 578398 | 5.586 | 5.59 | | 0.10 | 0.50 | |
| 39) n-Butylbenzene | (1) | 13.255(0.000) | 92 | 744148 | 6.056 | 6.06 | | 0.20 | 0.50 | |
| 91) 1,2-Dichlorobenzene | (1) | 13.291(0.000) | 146 | 439930 | 5.523 | 5.52 | | 0.10 | 0.50 | |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907(0.000) | 157 | 18160 | 5.265 | 5.27 | | 0.40 | 0.50 | |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567(0.000) | 180 | 220194 | 5.043 | 5.04 | | 0.20 | 0.50 | |
| 96) Hexachlorobutadiene | (1) | 14.685(0.000) | 225 | 172850 | 4.986 | 4.99 | | 0.20 | 0.50 | |
| 97) Naphthalene | (1) | 14.765(0.001) | 128 | 238813 | 4.767 | 4.77 | | 0.20 | 0.50 | |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949(0.001) | 180 | 154799 | 4.882 | 4.88 | | 0.20 | 0.50 | |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

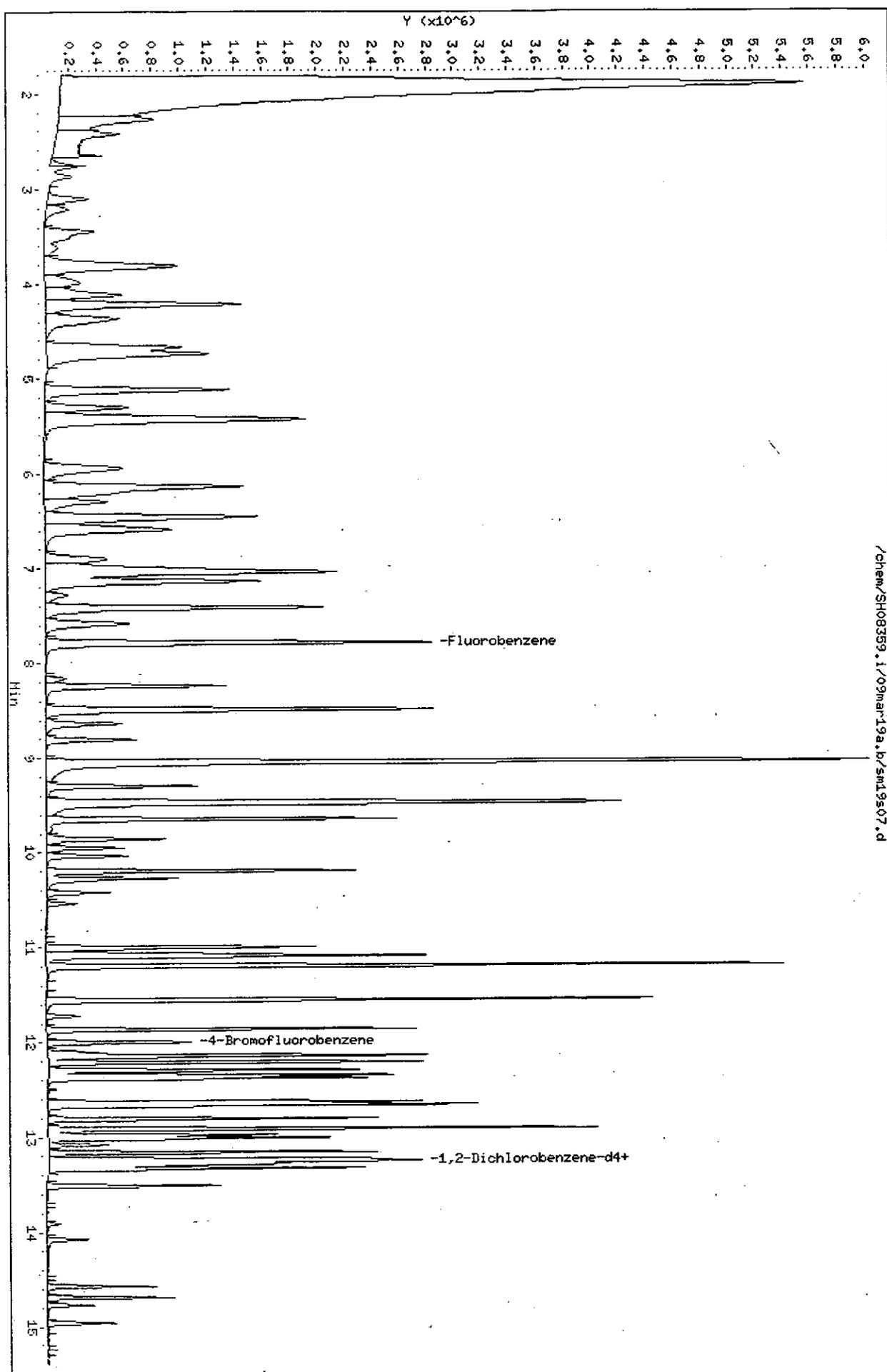
Analyst:  Date: 7/22/09

Auditor:  Date: 8/24/09

Data File: /chem/SH08359.i/09mar19a.b/sml19s07.d
Date: 19-MAR-2009 20:34
Client ID: 1101NMS
Sample Info: 1101NMS;5624006;1;3;HS;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.i
Operator: LCH01518
Column diameter: 0.25

/chem/SH08359.i/09mar19a.b/sml19s07.d



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3/23/09

0266

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMS Lab Sample ID: 5624006

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|----------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.137 | 85 | 227945 | 2.187 |
| 2) Chloromethane | (1) | 2.284 | 50 | 784324 | 2.635 |
| 3) Vinyl Chloride | (1) | 2.423 | 62 | 450599 | 2.115 |
| 4) Bromomethane | (1) | 2.761 | 94 | 249909 | 2.608 |
| 5) Chloroethane | (1) | 2.871 | 64 | 265808 | 2.382 |
| 7) Trichlorofluoromethane | (1) | 3.208 | 101 | 247631M | 2.394 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 419257 | 5.232 |
| 17) Methylene Chloride | (1) | 4.374 | 84 | 405523 | 6.034 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741 | 96 | 484125 | 5.575 |
| 22) 1,1-Dichloroethane | (1) | 5.298 | 63 | 1115590M | 5.240 |
| 26) cis-1,2-Dichloroethene | (1) | 6.127 | 96 | 435093 | 5.509 |
| 27) 2,2-Dichloropropane | (1) | 6.156 | 77 | 510153 | 5.733 |
| 32) Bromochloromethane | (1) | 6.471 | 128 | 152435 | 5.781 |
| 34) Chloroform | (1) | 6.596 | 83 | 723771 | 5.992 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904 | 97 | 518642 | 5.847 |
| 37) Carbon Tetrachloride | (1) | 7.146 | 117 | 449451 | 6.240 |
| 38) 1,1-Dichloropropene | (1) | 7.131 | 75 | 627605 | 5.745 |
| 39) Benzene | (1) | 7.417 | 78 | 1677613 | 5.863 |
| 40) 1,2-Dichloroethane | (1) | 7.425 | 62 | 395631 | 5.908 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1269211 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 481789 | 6.044 |
| 44) 1,2-Dichloropropane | (1) | 8.495 | 63 | 538341 | 5.407 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 147100 | 5.854 |
| 47) Bromodichloromethane | (1) | 8.803 | 83 | 418401 | 6.295 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295 | 75 | 495300M | 5.743 |
| 53) Toluene | (1) | 9.647 | 92 | 1008579 | 5.813 |
| 55) trans-1,3-Dichloropropene | (1) | 9.852 | 75 | 344317 | 5.834 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035 | 83 | 163243 | 6.439 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 431064 | 5.902 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 309266 | 5.776 |
| 61) Dibromochloromethane | (1) | 10.417 | 129 | 234016 | 5.964 |
| 62) 1,2-Dibromoethane | (1) | 10.534 | 107 | 165790 | 5.566 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 862000 | 5.698 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 289153 | 5.889 |

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518

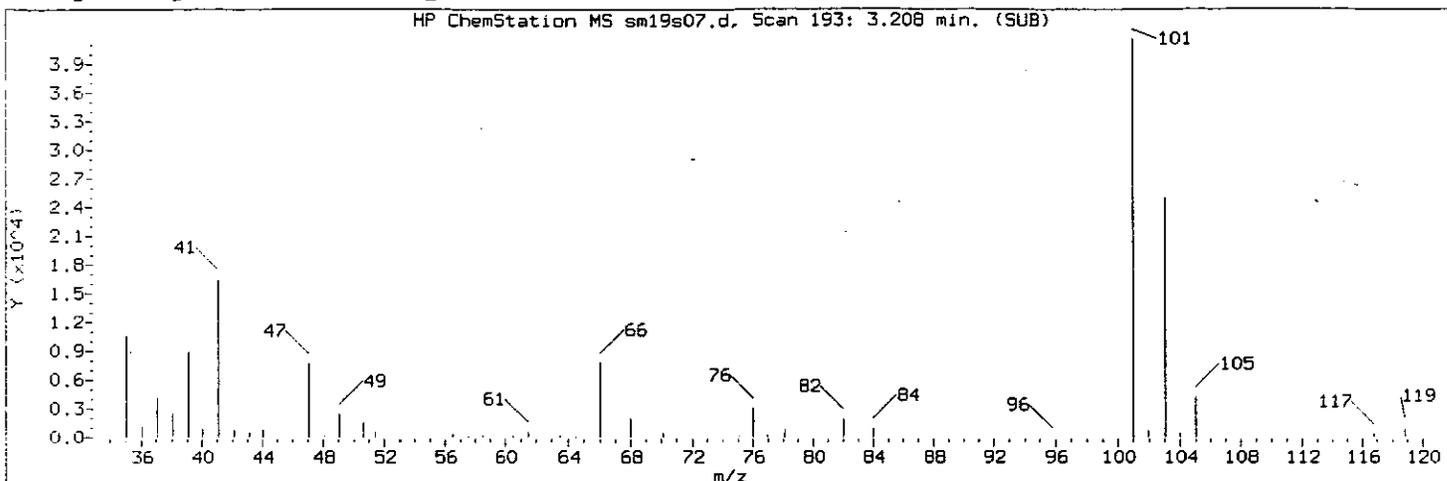
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMS Lab Sample ID: 5624006

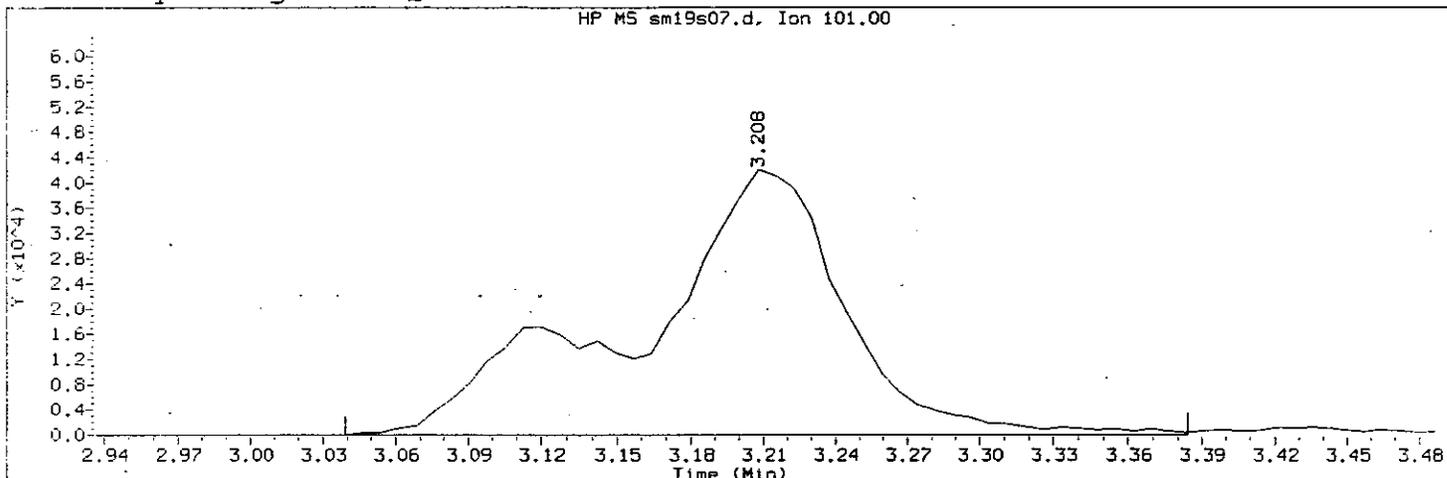
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 66) Ethylbenzene | (1) | 11.091 | 106 | 506098 | 5.312 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 1296835 | 11.466 |
| 68) o-Xylene | (1) | 11.546 | 106 | 587544 | 5.402 |
| 69) Styrene | (1) | 11.553 | 104 | 889569 | 5.905 |
| 71) Bromoform | (1) | 11.715 | 173 | 118450 | 6.301 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 382517 | 5.563 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 187645 | 6.115 |
| 75) Bromobenzene | (1) | 12.133 | 156 | 304045 | 5.491 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140 | 110 | 36846 | 5.609 |
| 78) n-Propylbenzene | (1) | 12.206 | 120 | 404490 | 5.901 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 362550 | 5.846 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.345 | 105 | 1140630 | 5.677 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 377445 | 5.932 |
| 82) tert-Butylbenzene | (1) | 12.624 | 134 | 270059 | 5.685 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661 | 105 | 1140065 | 5.746 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 283539 | 5.754 |
| 86) p-Isopropyltoluene | (1) | 12.917 | 119 | 1148154 | 6.179 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 594122 | 5.561 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 578398 | 5.586 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 744148 | 6.056 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 439930 | 5.523 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907 | 157 | 18160 | 5.265 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567 | 180 | 220194 | 5.043 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 172850 | 4.986 |
| 97) Naphthalene | (1) | 14.765 | 128 | 238813 | 4.767 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949 | 180 | 154799 | 4.882 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 265078 | 5.146 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.277 | 152 | 245004 | 5.367 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMS Lab Sample ID: 5624006

Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 193
 Retention Time (minutes): 3.208
 Quant Ion : 101
 Area (flag) : 247631 M
 Concentration (ug/L) : 2.3938
 Integration start scan : 169 Integration stop scan: 216
 Y at integration start : 0 Y at integration end: 0

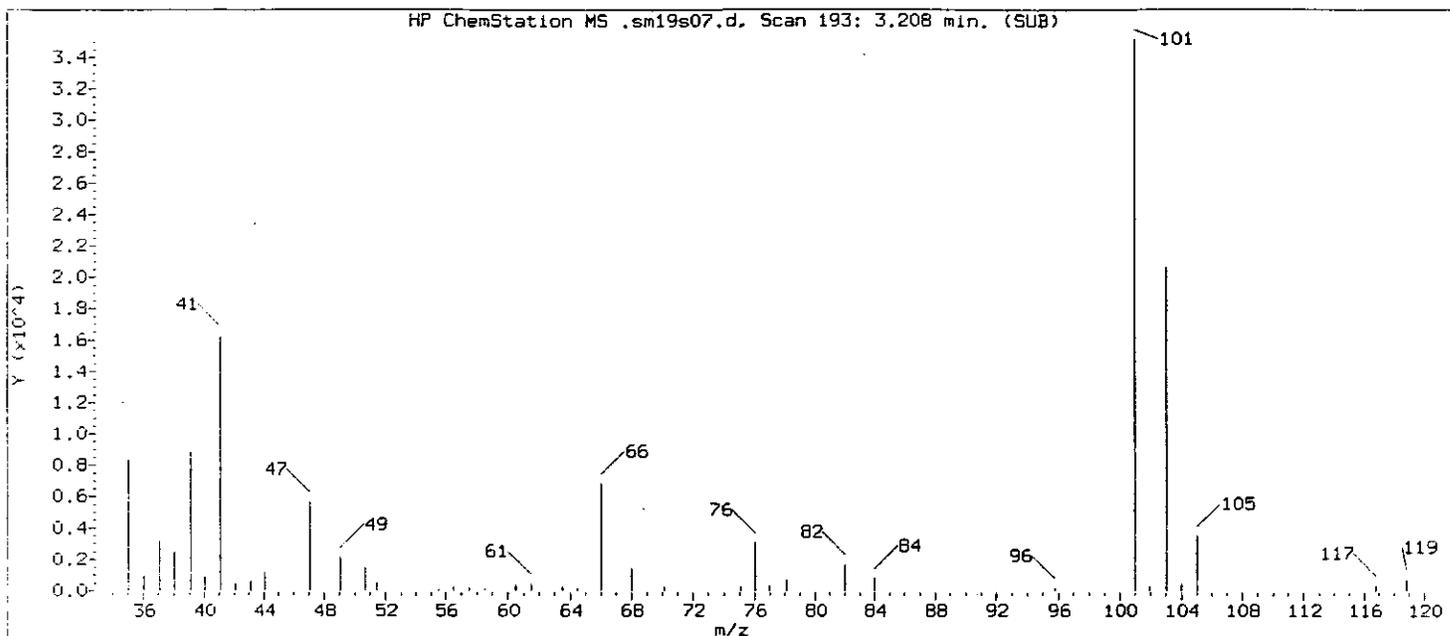
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MM 3/23/09

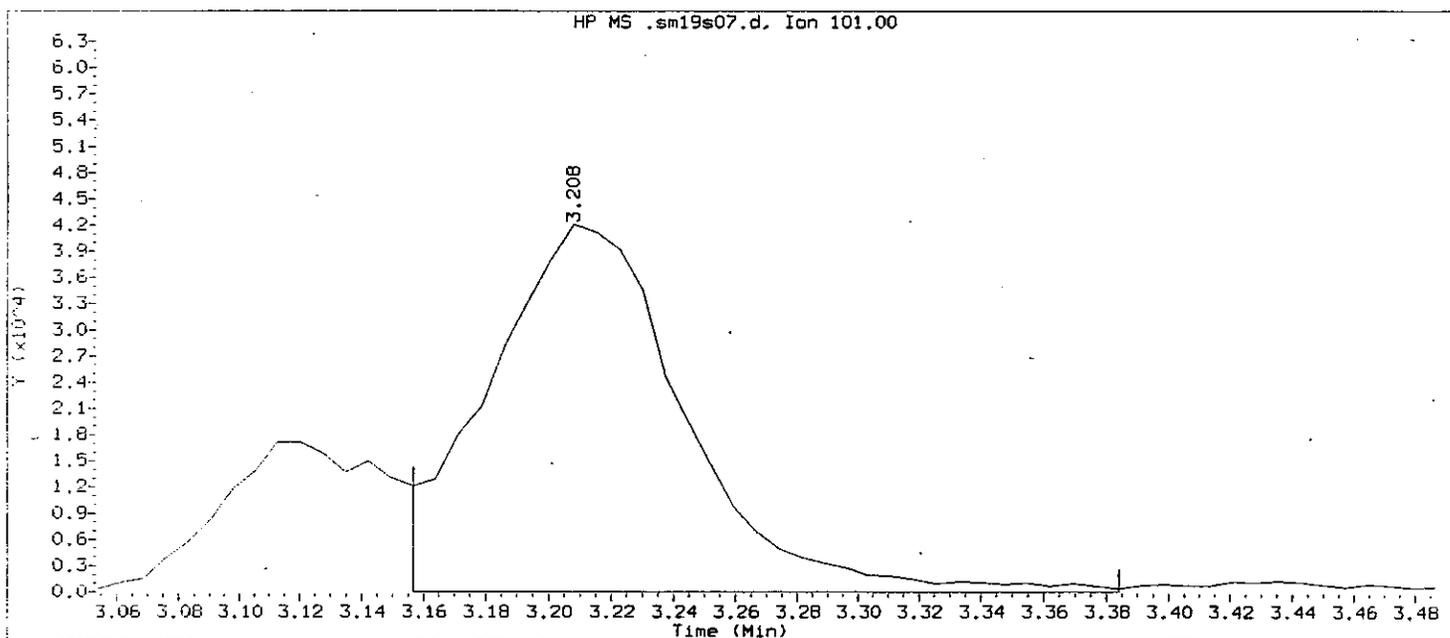
WAT09 8269

GC/MS audit/management approval: MM 3/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion

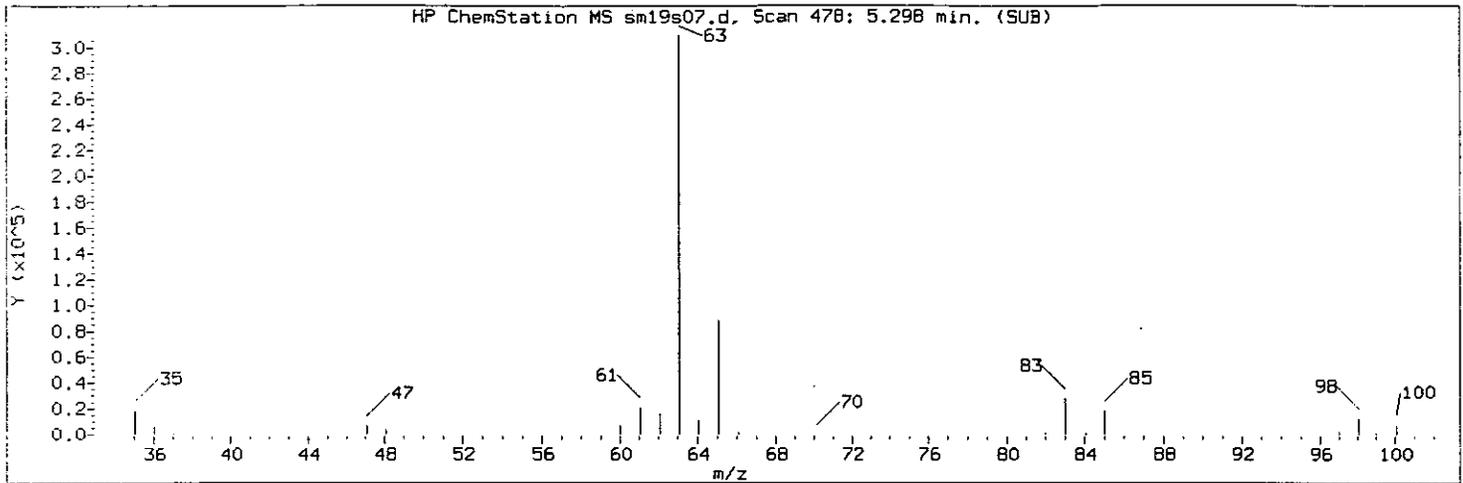


Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 20:54 Automation
Sample Name: 110INMS Lab Sample ID: 5624006

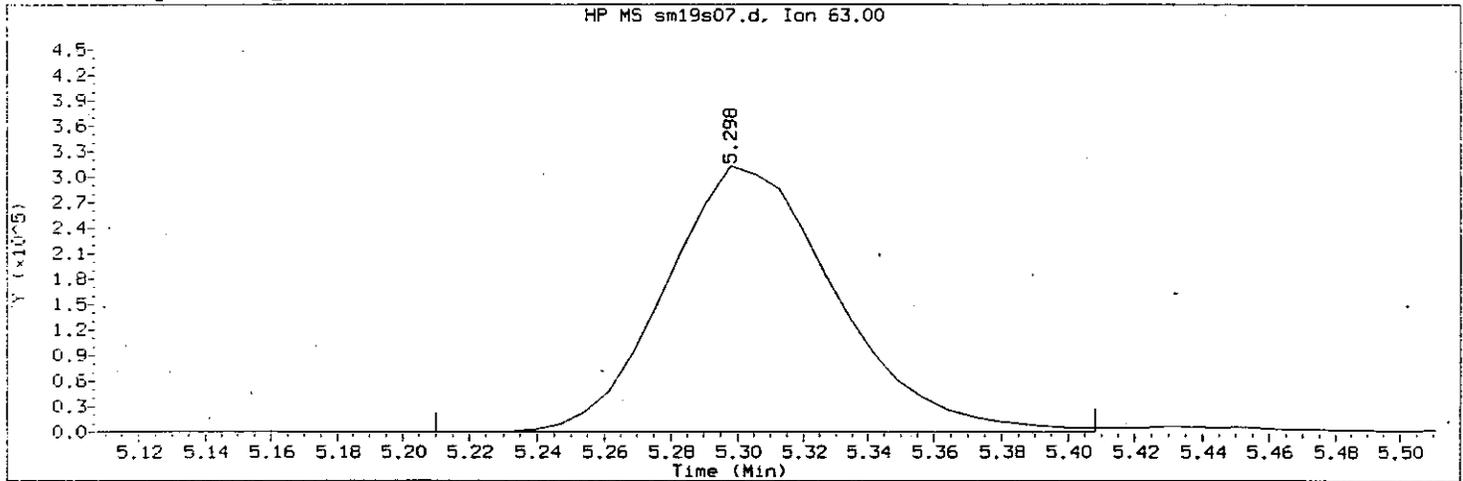
Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 193
Retention Time (minutes) : 3.208
Quant Ion : 101
Area : 183724
Concentration (ug/L) : 1.7760
Integration start scan : 185 Integration stop scan: 216
Y at integration start : 0 Y at integration end: 0

WATER 8278

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMS Lab Sample ID: 5624006

Compound Number : 22
 Compound Name : 1,1-Dichloroethane
 Scan Number : 478
 Retention Time (minutes): 5.298
 Quant Ion : 63
 Area (flag) : 1115590 M
 Concentration (ug/L) : 5.2397
 Integration start scan : 465 Integration stop scan: 492
 Y at integration start : 0 Y at integration end: 0

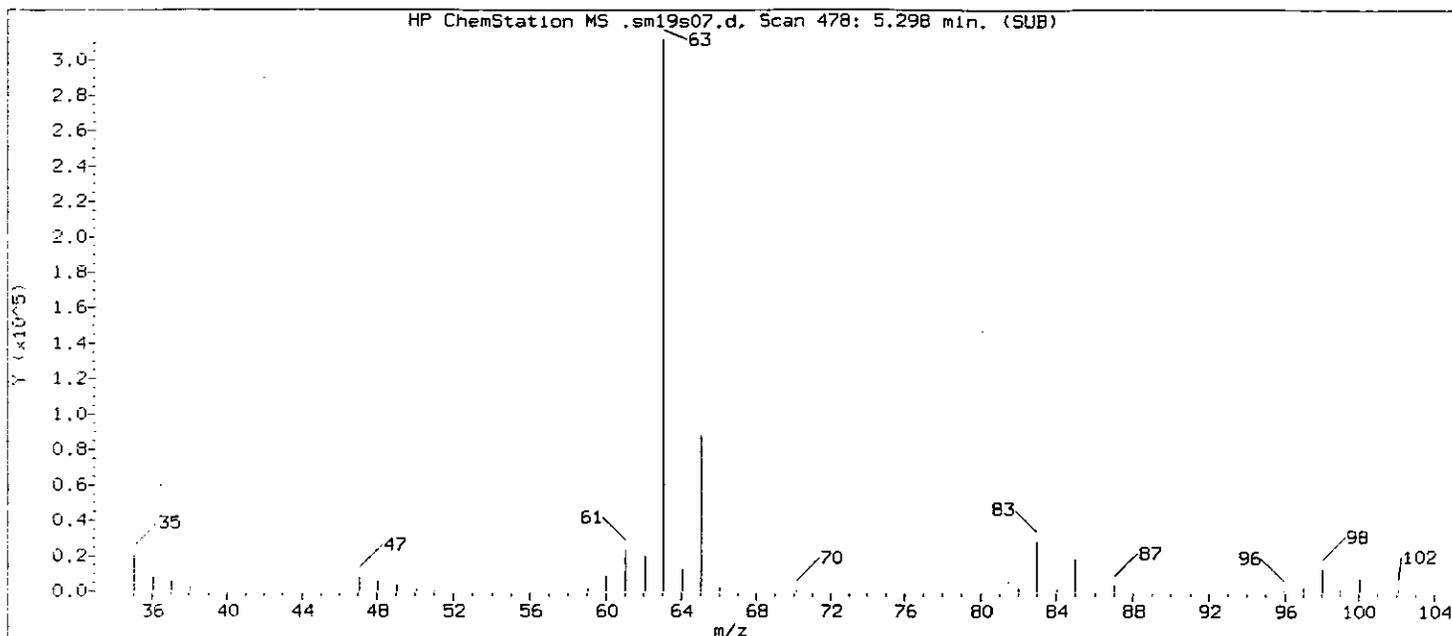
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [Signature] 3/23/09

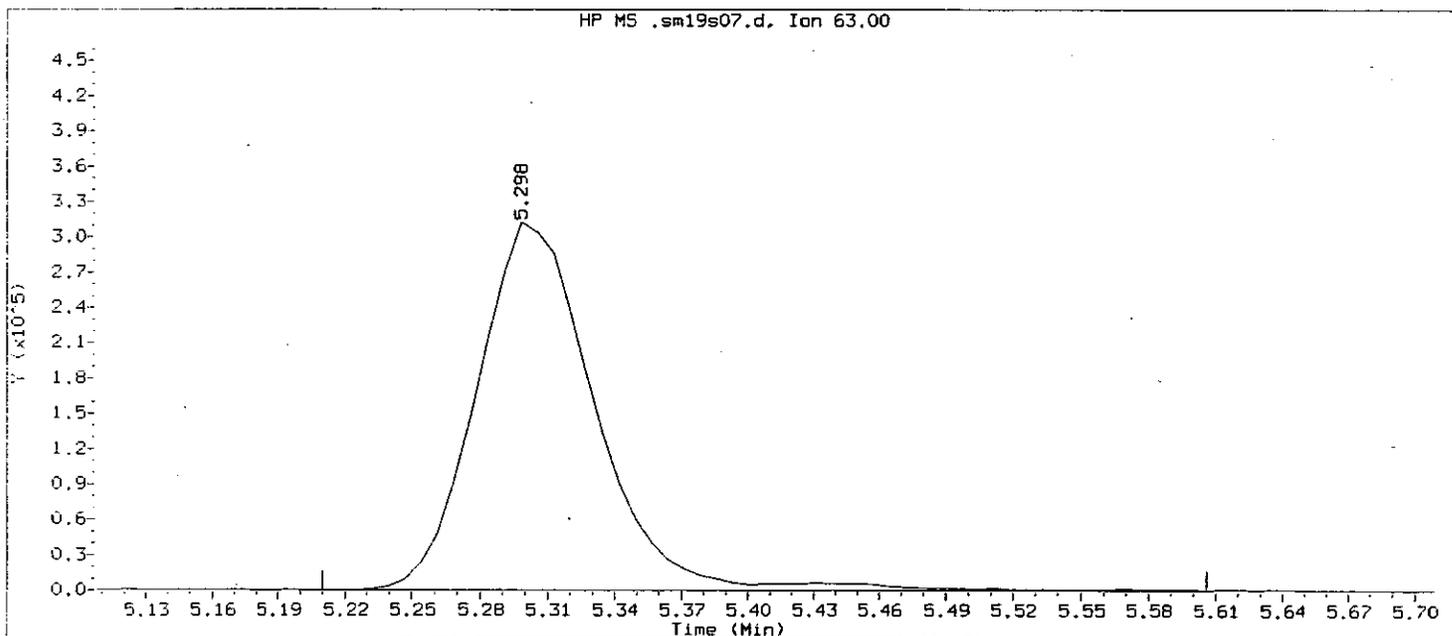
WAT09 8271

GC/MS audit/management approval: [Signature] 3/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 20:54 Automation

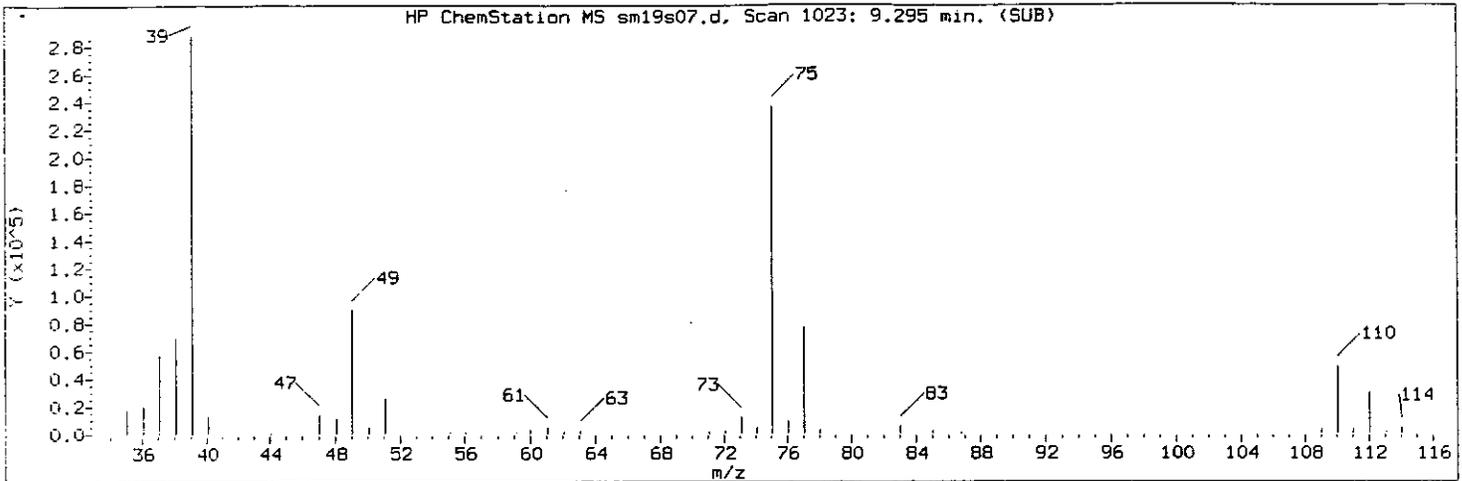
Sample Name: 110INMS

Lab Sample ID: 5624006

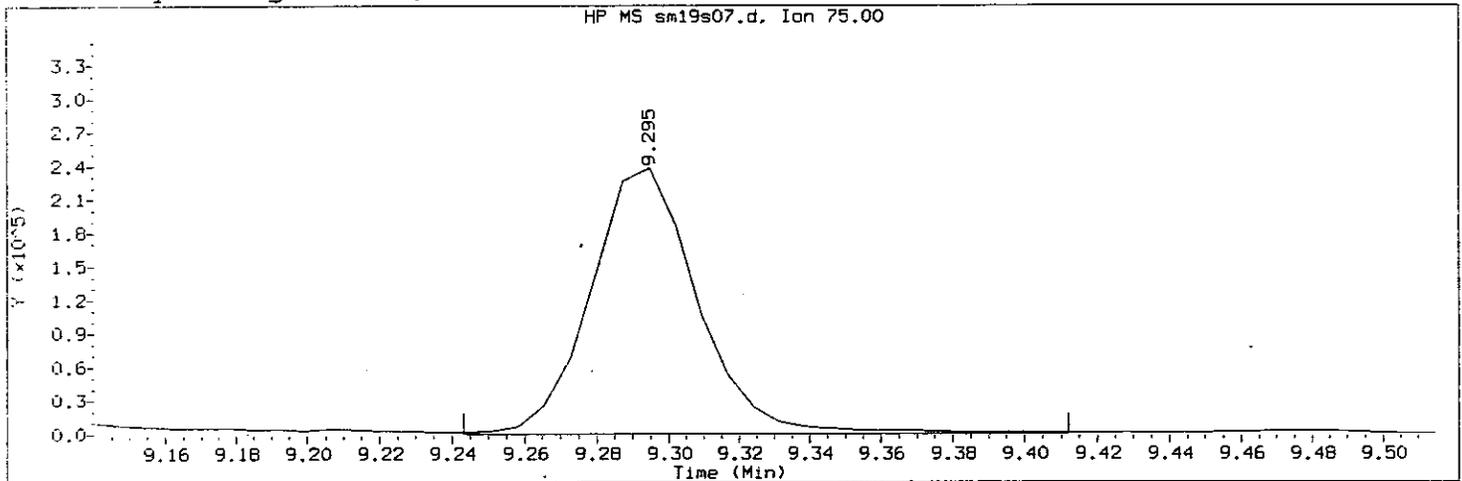
Compound Number : 22
Compound Name : 1,1-Dichloroethane
Scan Number : 478
Retention Time (minutes) : 5.298
Quant Ion : 63
Area : 1145081
Concentration (ug/L) : 5.3783
Integration start scan : 465 Integration stop scan: 519
Y at integration start : 0 Y at integration end: 0

WATER 0272

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2009 14:04
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMS Lab Sample ID: 5624006

Compound Number : 50
Compound Name : cis-1,3-Dichloropropene
Scan Number : 1023
Retention Time (minutes): 9.295
Quant Ion : 75
Area (flag) : 495300 M
Concentration (ug/L) : 5.7432
Integration start scan : 1015 Integration stop scan: 1038
Y at integration start : 0 Y at integration end: 0

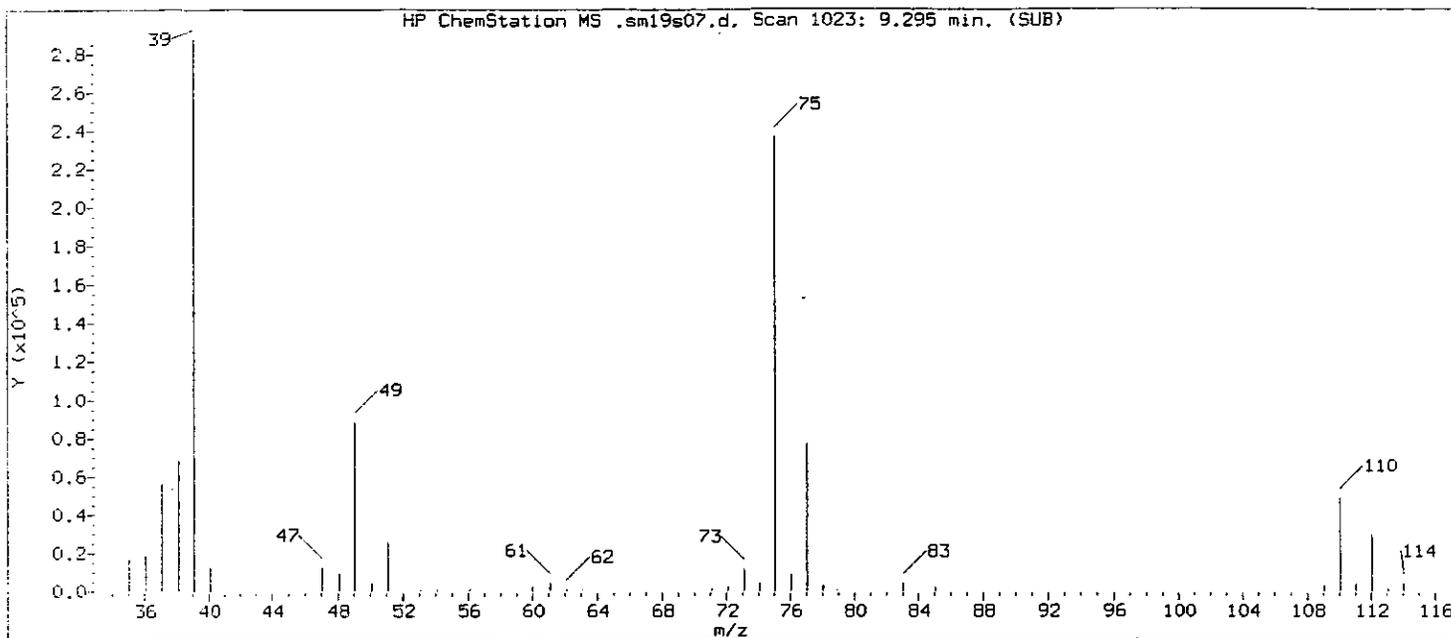
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: AD/m 3/23/09

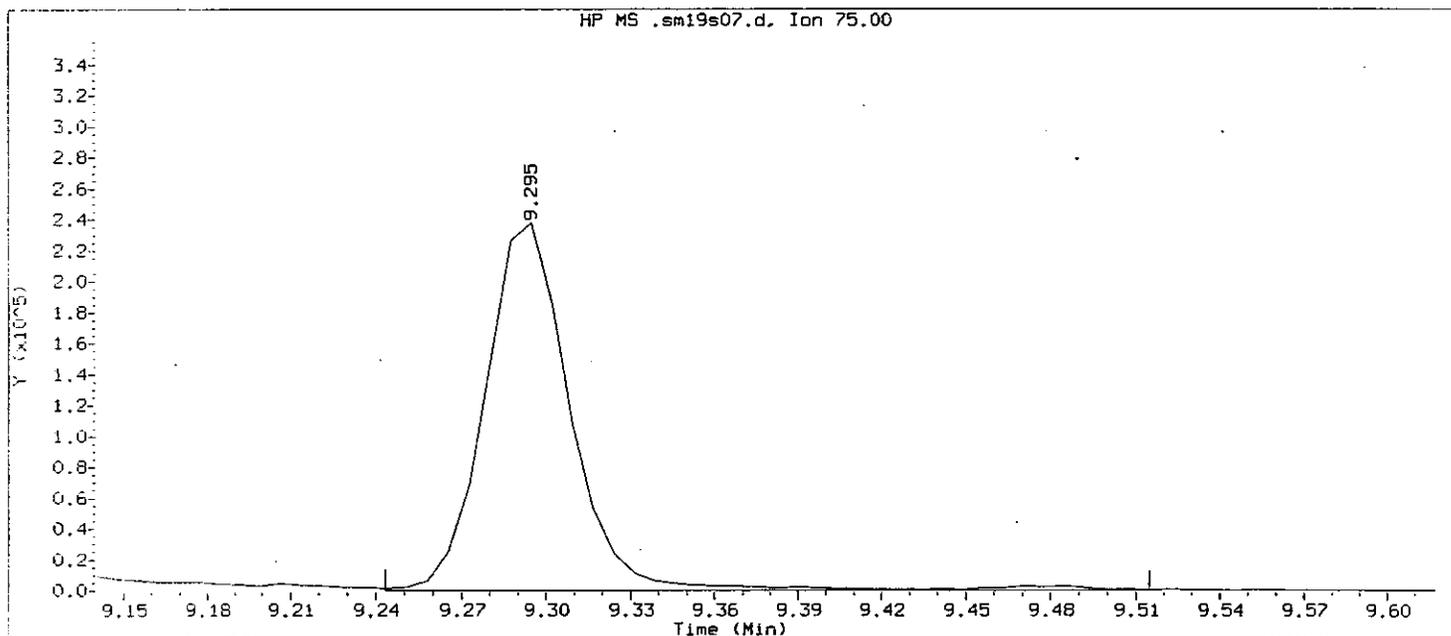
DATE: 03/23/09

GC/MS audit/management approval: AD/m 3/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s07.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 20:34 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 20:54 Automation

Sample Name: 110INMS Lab Sample ID: 5624006

Compound Number : 50
Compound Name : cis-1,3-Dichloropropene
Scan Number : 1023
Retention Time (minutes) : 9.295
Quant Ion : 75
Area : 503901
Concentration (ug/L) : 5.8429
Integration start scan : 1015 Integration stop scan: 1052
Y at integration start : 0 Y at integration end: 0

WAT69 8274

110INMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5624007

File: /chem/SH08359.i/09mar19a.b/sm19s08.d
Sample: 110INMSD;5624007;1;3;MSD;;DRAPER;
Injected At:19-MAR-2009 21:00
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA Matrix: WATER
Analyst: LCM01518 Level: Low
Instrument ID: SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code: 38A

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.784(0.000) | 817 | 96 | 1306009(-6) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(0.000) | 174 | 269115 | 5.078 | 102% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(0.001) | 152 | 243428 | 5.183 | 104% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | 2.152(-0.003) | 85 | 184440 | 1.720 | 1.72 | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | 2.284(-0.001) | 50 | 624919 | 2.040 | 2.04 | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | 2.423(-0.002) | 62 | 382380 | 1.744 | 1.74 | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | 2.761(0.000) | 94 | 206948 | 2.099 | 2.10 | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | 2.871(-0.001) | 64 | 218984 | 1.907 | 1.91 | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | 3.208(-0.001) | 101 | 207824 | 1.952 | 1.95 | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | 3.802(-0.001) | 96 | 422740 | 5.127 | 5.13 | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | 4.374(-0.001) | 84 | 401791 | 5.810 | 5.81 | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741(0.000) | 96 | 475513 | 5.322 | 5.32 | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | 5.305(0.000) | 63 | 1120687 | 5.115 | 5.12 | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134(0.000) | 96 | 427036 | 5.255 | 5.26 | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | 6.149(0.000) | 77 | 490363 | 5.355 | 5.35 | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | 6.464(0.002) | 128 | 151524 | 5.584 | 5.58 | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | 6.589(0.001) | 83 | 694619 | 5.589 | 5.59 | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | 6.897(0.001) | 97 | 502057 | 5.500 | 5.50 | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | 7.153(0.000) | 117 | 431461 | 5.821 | 5.82 | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | 7.131(0.001) | 75 | 612519 | 5.449 | 5.45 | | | 0.10 | 0.50 |
| 39) Benzene | (1) | 7.417(0.001) | 78 | 1641561 | 5.575 | 5.57 | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | 7.425(0.001) | 62 | 378633 | 5.495 | 5.50 | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | 8.239(0.001) | 95 | 462671 | 5.641 | 5.64 | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | 8.495(0.001) | 63 | 520839 | 5.083 | 5.08 | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | 8.627(0.000) | 93 | 142217 | 5.501 | 5.50 | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | 8.803(0.001) | 83 | 393895 | 5.760 | 5.76 | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295(0.000) | 75 | 476317 | 5.367 | 5.37 | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

110INMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5624007

File: /chem/SH08359.i/09mar19a.b/sm19s08.d
Sample: 110INMSD;5624007;1;3;MSD;;DRAPER;
Injected At:19-MAR-2009 21:00
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:S090781BA Matrix: WATER
Analyst:LCM01518 Level: Low
Instrument ID:SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm19c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor:1.00
Units: ug/L Bottle Code:38A

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|-------------------------------|-----------|----------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|-----|
| 53: Toluene | (1) | 9.647(0.001) | 92 | 964039 | 5.399 | 5.40 | | 0.10 | 0.50 | |
| 55: trans-1,3-Dichloropropene | (1) | 9.852(0.001) | 75 | 330035 | 5.435 | 5.43 | | 0.10 | 0.50 | |
| 57: 1,1,2-Trichloroethane | (1) | 10.035(0.000) | 83 | 154080 | 5.906 | 5.91 | | 0.10 | 0.50 | |
| 58: Tetrachloroethene | (1) | 10.197(0.000) | 166 | 417157 | 5.550 | 5.55 | | 0.10 | 0.50 | |
| 59: 1,3-Dichloropropane | (1) | 10.204(0.000) | 76 | 298677 | 5.421 | 5.42 | | 0.10 | 0.50 | |
| 61: Dibromochloromethane | (1) | 10.417(0.001) | 129 | 232407 | 5.757 | 5.76 | | 0.10 | 0.50 | |
| 62: 1,2-Dibromoethane | (1) | 10.534(0.001) | 107 | 158530 | 5.172 | 5.17 | | 0.10 | 0.50 | |
| 64: Chlorobenzene | (1) | 10.996(0.000) | 112 | 843209 | 5.416 | 5.42 | | 0.10 | 0.50 | |
| 65: 1,1,1,2-Tetrachloroethane | (1) | 11.062(0.000) | 131 | 274663 | 5.436 | 5.44 | | 0.10 | 0.50 | |
| 66: Ethylbenzene | (1) | 11.084(0.001) | 106 | 489786 | 4.996 | 5.00 | | 0.10 | 0.50 | |
| 67: m-p-Xylene | (1) | 11.194(0.000) | 106 | 1245817 | 10.705 | 10.70 | | 0.20 | 0.50 | |
| 68: o-Xylene | (1) | 11.546(0.000) | 106 | 562486 | 5.026 | 5.03 | | 0.10 | 0.50 | |
| 69: Styrene | (1) | 11.553(0.000) | 104 | 861937 | 5.560 | 5.56 | | 0.10 | 0.50 | |
| 71: Bromoform | (1) | 11.715(0.001) | 173 | 109239 | 5.647 | 5.65 | | 0.20 | 0.50 | |
| 72: Isopropylbenzene | (1) | 11.861(0.000) | 120 | 356237 | 5.035 | 5.03 | | 0.10 | 0.50 | |
| 74: 1,1,2,2-Tetrachloroethane | (1) | 12.096(0.000) | 83 | 181369 | 5.744 | 5.74 | | 0.10 | 0.50 | |
| 75: Bromobenzene | (1) | 12.133(0.000) | 156 | 291793 | 5.121 | 5.12 | | 0.10 | 0.50 | |
| 76: 1,2,3-Trichloropropane | (1) | 12.140(0.001) | 110 | 34944 | 5.169 | 5.17 | | 0.10 | 0.50 | |
| 78: n-Propylbenzene | (1) | 12.206(0.001) | 120 | 382305 | 5.420 | 5.42 | | 0.10 | 0.50 | |
| 79: 2-Chlorotoluene | (1) | 12.294(0.000) | 126 | 346534 | 5.431 | 5.43 | | 0.10 | 0.50 | |
| 80: 1,3,5-Trimethylbenzene | (1) | 12.353(0.000) | 105 | 1091988 | 5.282 | 5.28 | | 0.10 | 0.50 | |
| 81: 4-Chlorotoluene | (1) | 12.382(0.000) | 126 | 357365 | 5.458 | 5.46 | | 0.20 | 0.50 | |
| 92: tert-Butylbenzene | (1) | 12.624(0.001) | 134 | 257425 | 5.267 | 5.27 | | 0.10 | 0.50 | |
| 84: 1,2,4-Trimethylbenzene | (1) | 12.661(0.001) | 105 | 1069909 | 5.241 | 5.24 | | 0.10 | 0.50 | |

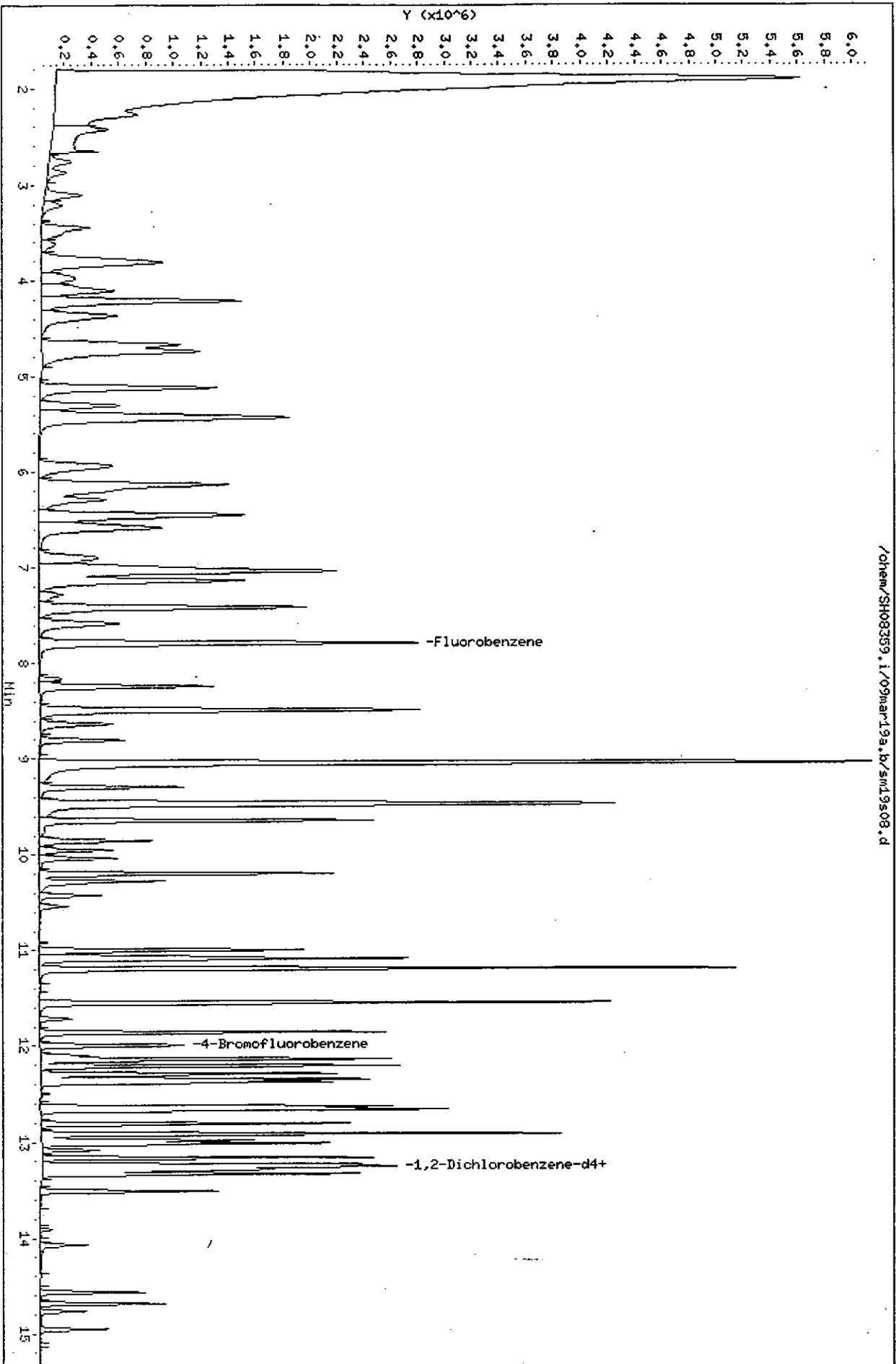
E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Data File: /chem/SH08359.1/09mar19a.b/sml19s08.d
Date: 19-MAR-2009 21:00
Client ID: 1101INHSD
Sample Info: 1101INHSD;5624007;1;3;HSD;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.i
Operator: LCH01518
Column diameter: 0.25

MMZ
3/23/09



/chem/SH08359.1/09mar19a.b/sml19s08.d

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sml19s08.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMSD

Lab Sample ID: 5624007

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.152 | 85 | 184440 | 1.720 |
| 2) Chloromethane | (1) | 2.284 | 50 | 624919 | 2.040 |
| 3) Vinyl Chloride | (1) | 2.423 | 62 | 382380 | 1.744 |
| 4) Bromomethane | (1) | 2.761 | 94 | 206948 | 2.099 |
| 5) Chloroethane | (1) | 2.871 | 64 | 218984 | 1.907 |
| 7) Trichlorofluoromethane | (1) | 3.208 | 101 | 207824M | 1.952 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 422740 | 5.127 |
| 17) Methylene Chloride | (1) | 4.374 | 84 | 401791 | 5.810 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741 | 96 | 475513 | 5.322 |
| 22) 1,1-Dichloroethane | (1) | 5.305 | 63 | 1120687 | 5.115 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 427036 | 5.255 |
| 27) 2,2-Dichloropropane | (1) | 6.149 | 77 | 490363 | 5.355 |
| 32) Bromochloromethane | (1) | 6.464 | 128 | 151524 | 5.584 |
| 34) Chloroform | (1) | 6.589 | 83 | 694619 | 5.589 |
| 35) 1,1,1-Trichloroethane | (1) | 6.897 | 97 | 502057 | 5.500 |
| 37) Carbon Tetrachloride | (1) | 7.153 | 117 | 431461M | 5.821 |
| 38) 1,1-Dichloropropene | (1) | 7.131 | 75 | 612519 | 5.449 |
| 39) Benzene | (1) | 7.417 | 78 | 1641561 | 5.575 |
| 40) 1,2-Dichloroethane | (1) | 7.425 | 62 | 378633 | 5.495 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1306009 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 462671 | 5.641 |
| 44) 1,2-Dichloropropane | (1) | 8.495 | 63 | 520839 | 5.083 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 142217 | 5.501 |
| 47) Bromodichloromethane | (1) | 8.803 | 83 | 393895 | 5.760 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295 | 75 | 476317 | 5.367 |
| 53) Toluene | (1) | 9.647 | 92 | 964039 | 5.399 |
| 55) trans-1,3-Dichloropropene | (1) | 9.852 | 75 | 330035 | 5.435 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035 | 83 | 154080M | 5.906 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 417157 | 5.550 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 298677 | 5.421 |
| 61) Dibromochloromethane | (1) | 10.417 | 129 | 232407 | 5.757 |
| 62) 1,2-Dibromoethane | (1) | 10.534 | 107 | 158530 | 5.172 |
| 64) Chlorobenzene | (1) | 10.996 | 112 | 843209 | 5.416 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 274663 | 5.436 |

M = Compound was manually integrated.

* = Compound is an internal standard.

NOTES: 8279

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sml19s08.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518

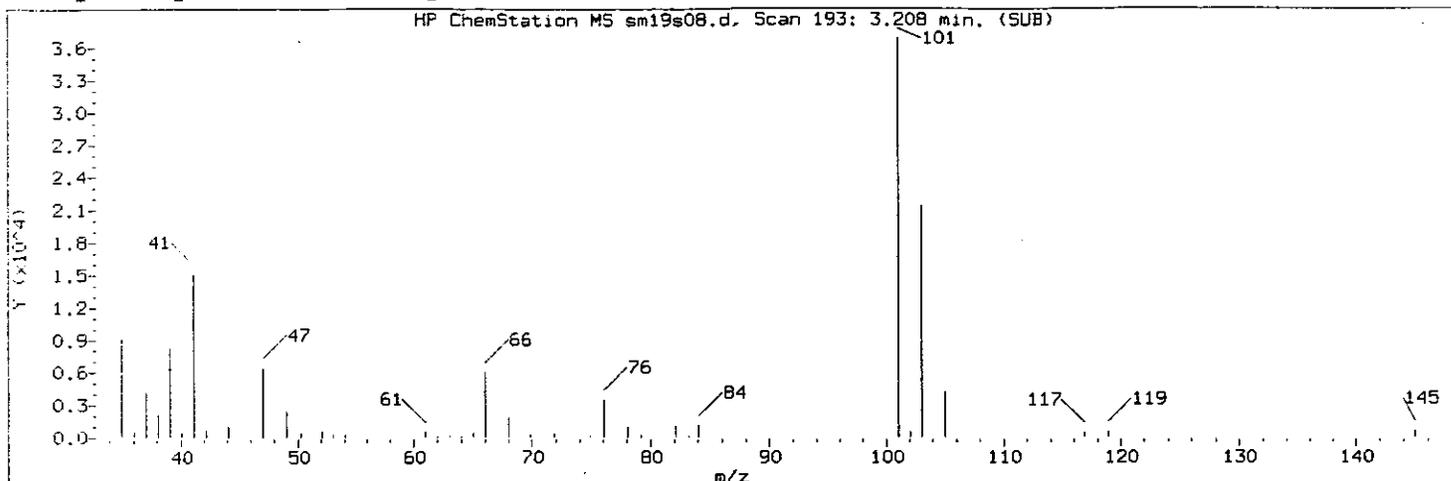
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMSD Lab Sample ID: 5624007

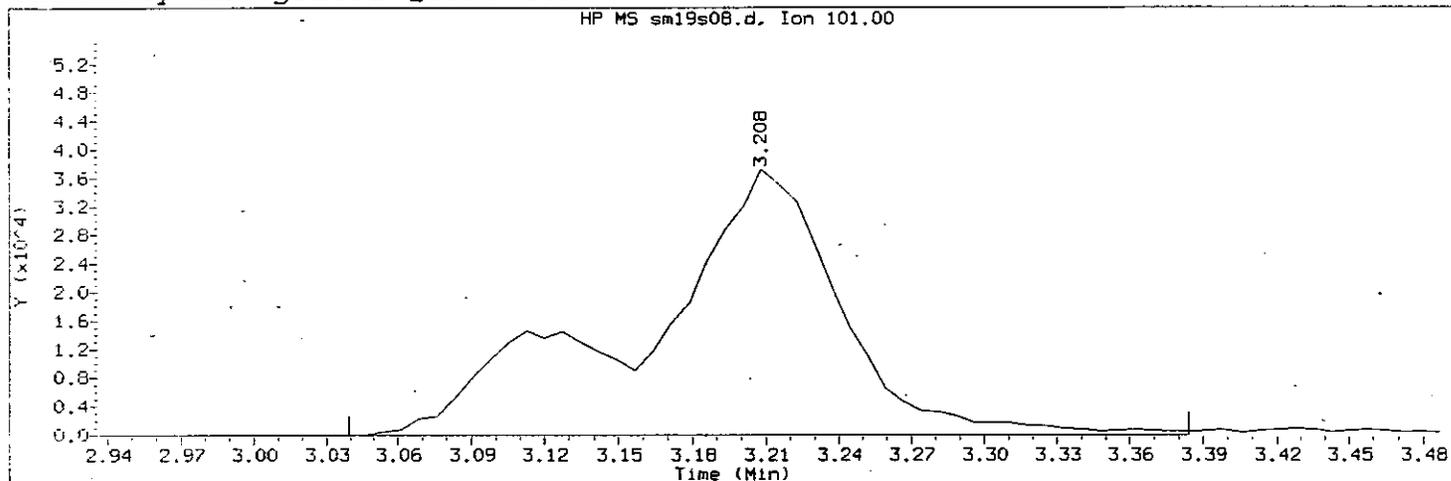
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 66) Ethylbenzene | (1) | 11.084 | 106 | 489786 | 4.996 |
| 67) m+p-Xylene | (1) | 11.194 | 106 | 1245817 | 10.705 |
| 68) o-Xylene | (1) | 11.546 | 106 | 562486 | 5.026 |
| 69) Styrene | (1) | 11.553 | 104 | 861937 | 5.560 |
| 71) Bromoform | (1) | 11.715 | 173 | 109239 | 5.647 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 356237 | 5.035 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 181369 | 5.744 |
| 75) Bromobenzene | (1) | 12.133 | 156 | 291793 | 5.121 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140 | 110 | 34944 | 5.169 |
| 78) n-Propylbenzene | (1) | 12.206 | 120 | 382305 | 5.420 |
| 79) 2-Chlorotoluene | (1) | 12.294 | 126 | 346534 | 5.431 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.353 | 105 | 1091988 | 5.282 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 357365 | 5.458 |
| 82) tert-Butylbenzene | (1) | 12.624 | 134 | 257425 | 5.267 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661 | 105 | 1069909 | 5.241 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 267037 | 5.266 |
| 86) p-Isopropyltoluene | (1) | 12.917 | 119 | 1092949 | 5.716 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 565743 | 5.146 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 550167 | 5.163 |
| 89) n-Butylbenzene | (1) | 13.247 | 92 | 711129 | 5.624 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 427447 | 5.215 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.907 | 157 | 17887 | 5.040 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.567 | 180 | 212368 | 4.727 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 165823 | 4.648 |
| 97) Naphthalene | (1) | 14.765 | 128 | 239928 | 4.655 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949 | 180 | 152730 | 4.681 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 269115 | 5.078 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 243428 | 5.183 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s08.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2009 14:04
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349
Sample Name: 110INMSD Lab Sample ID: 5624007

Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 193
Retention Time (minutes): 3.208
Quant Ion : 101
Area (flag) : 207824 M
Concentration (ug/L) : 1.9524
Integration start scan : 169 Integration stop scan: 216
Y at integration start : 0 Y at integration end: 0

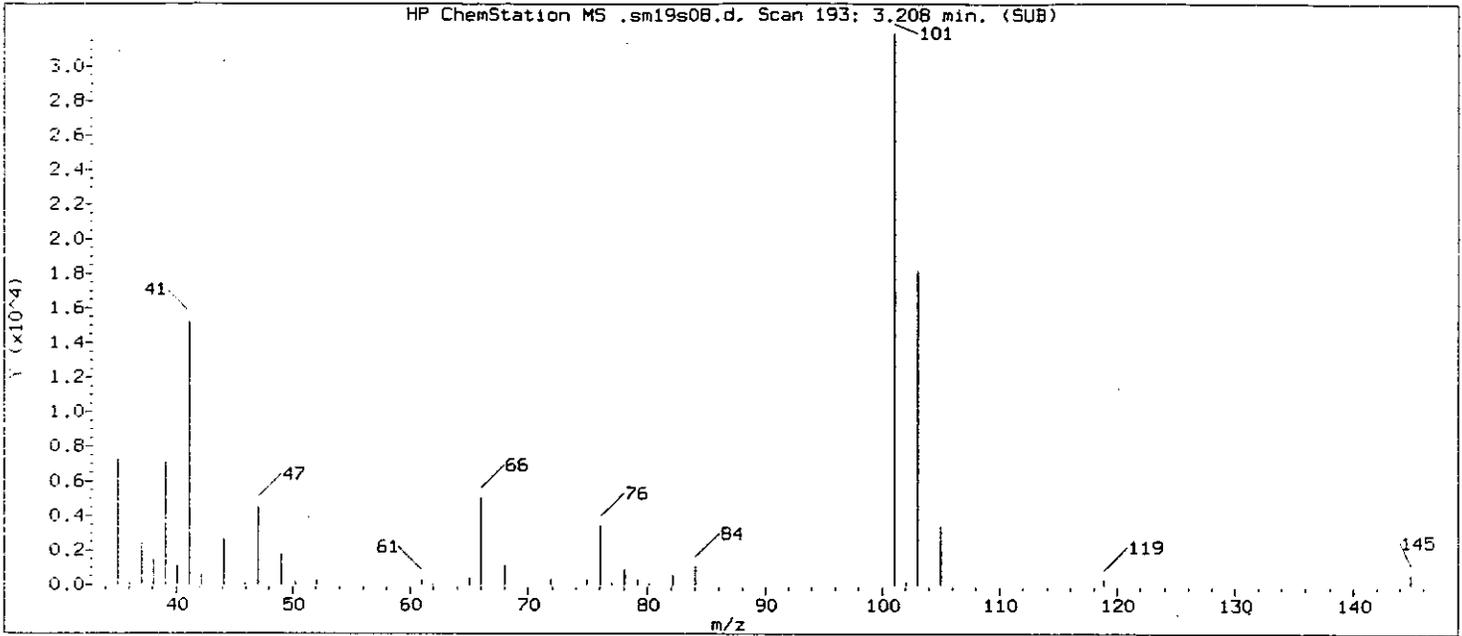
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MMM 3/24/09

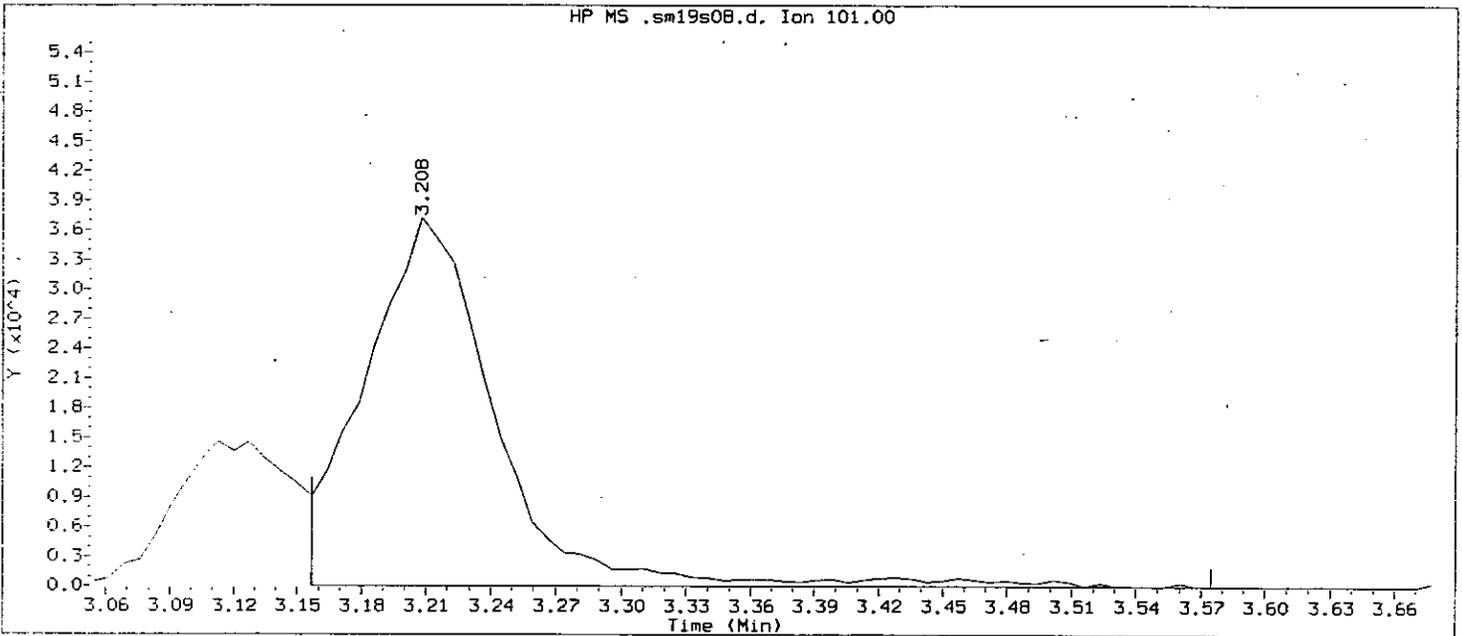
WAT89 8281

GC/MS audit/management approval: ADL 3/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



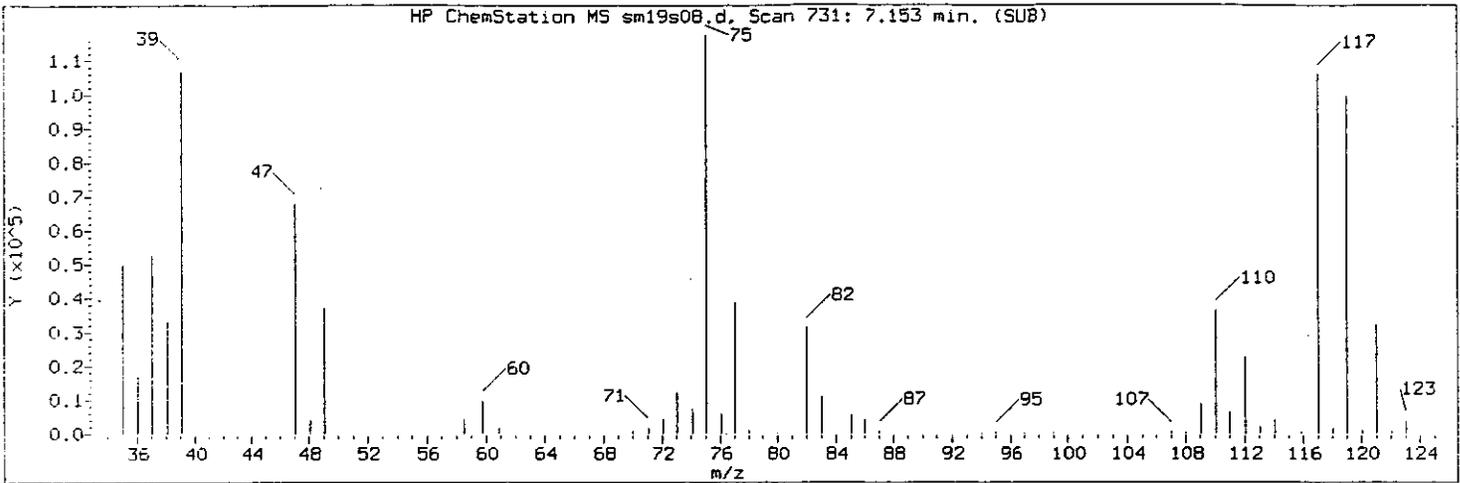
Data File: /chem/SH08359.i/09mar19a.b/sm19s08.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 21:39 Automation

Sample Name: 110INMSD Lab Sample ID: 5624007

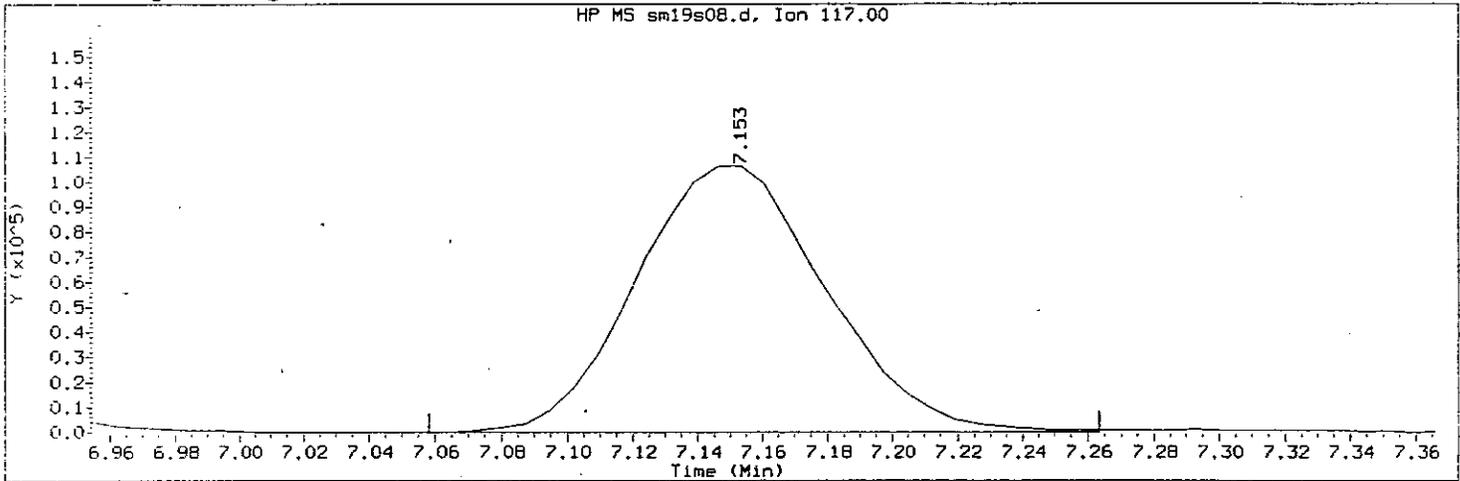
Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 193
Retention Time (minutes): 3.208
Quant Ion : 101
Area : 157493
Concentration (ug/L) : 1.4796
Integration start scan : 185 Integration stop scan: 242
Y at integration start : 0 Y at integration end: 0

WATER 8382

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s08.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2009 14:04
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMSD Lab Sample ID: 5624007

Compound Number : 37
Compound Name : Carbon Tetrachloride
Scan Number : 731
Retention Time (minutes): 7.153
Quant Ion : 117
Area (flag) : 431461 M
Concentration (ug/L) : 5.8210
Integration start scan : 717 Integration stop scan: 745
Y at integration start : 0 Y at integration end: 0

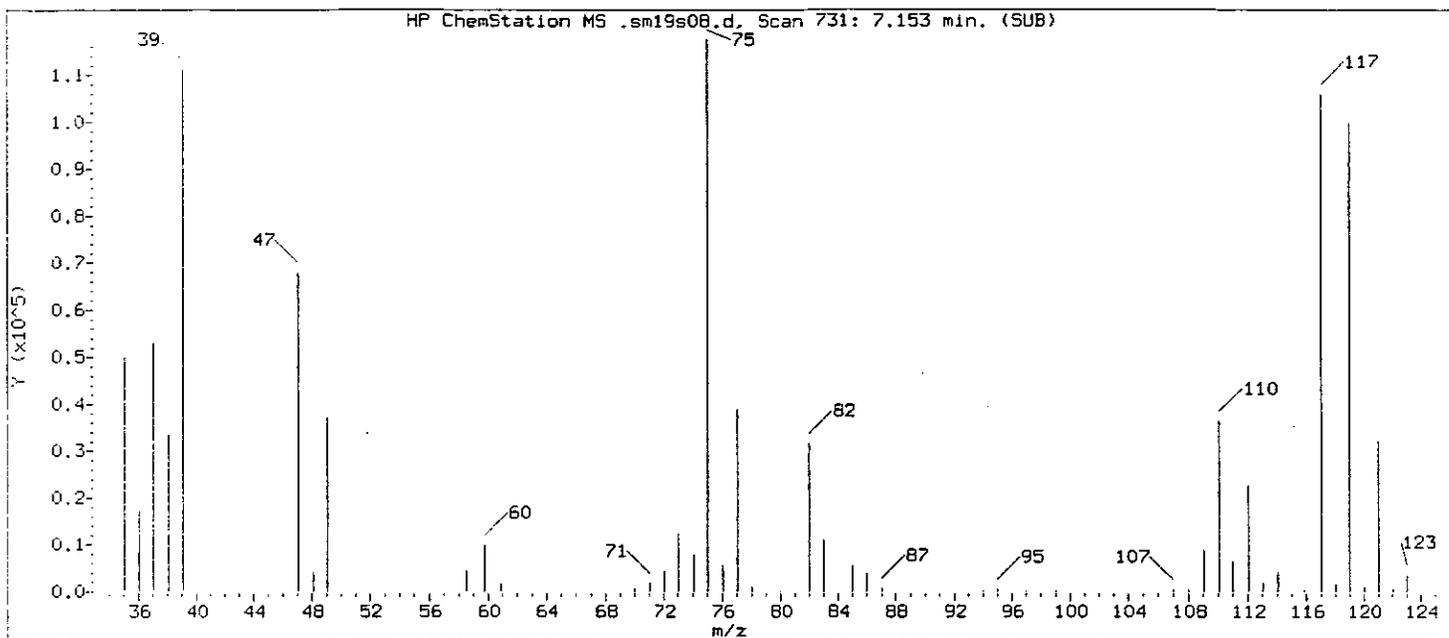
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MM/9/09 3/23/09

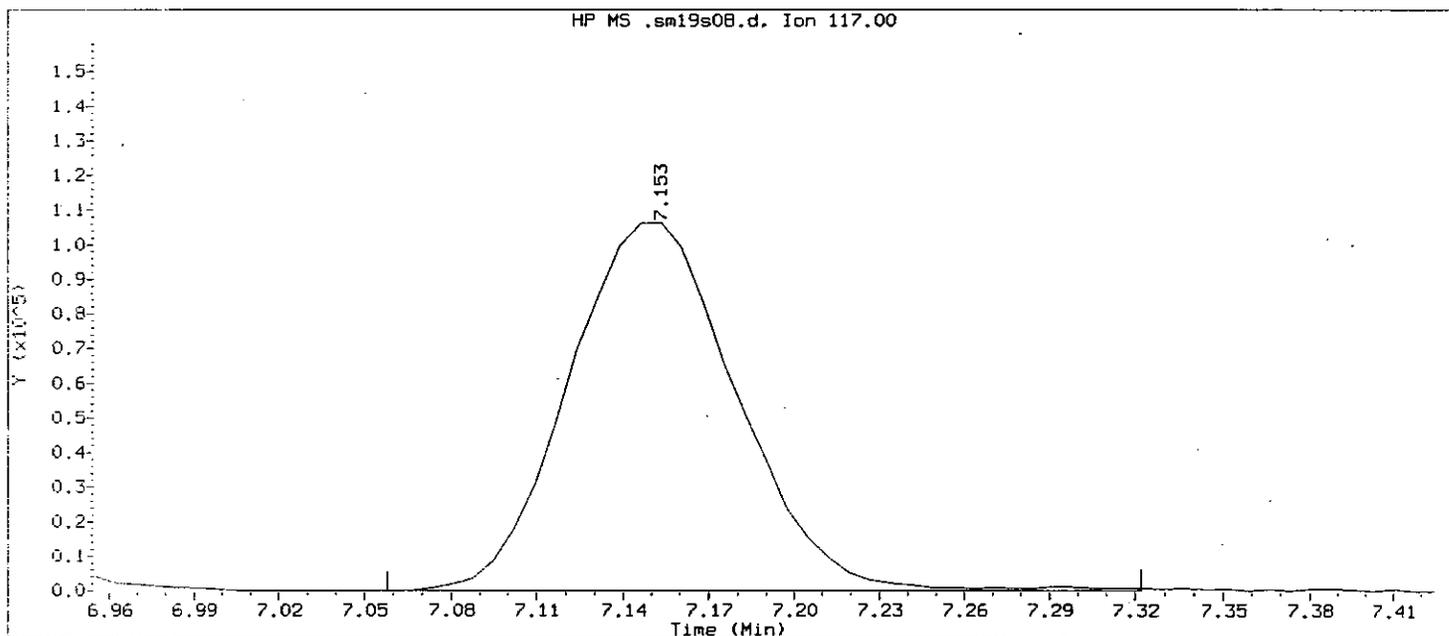
WATER 8283

GC/MS audit/management approval: MM/11/09 8/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s08.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518

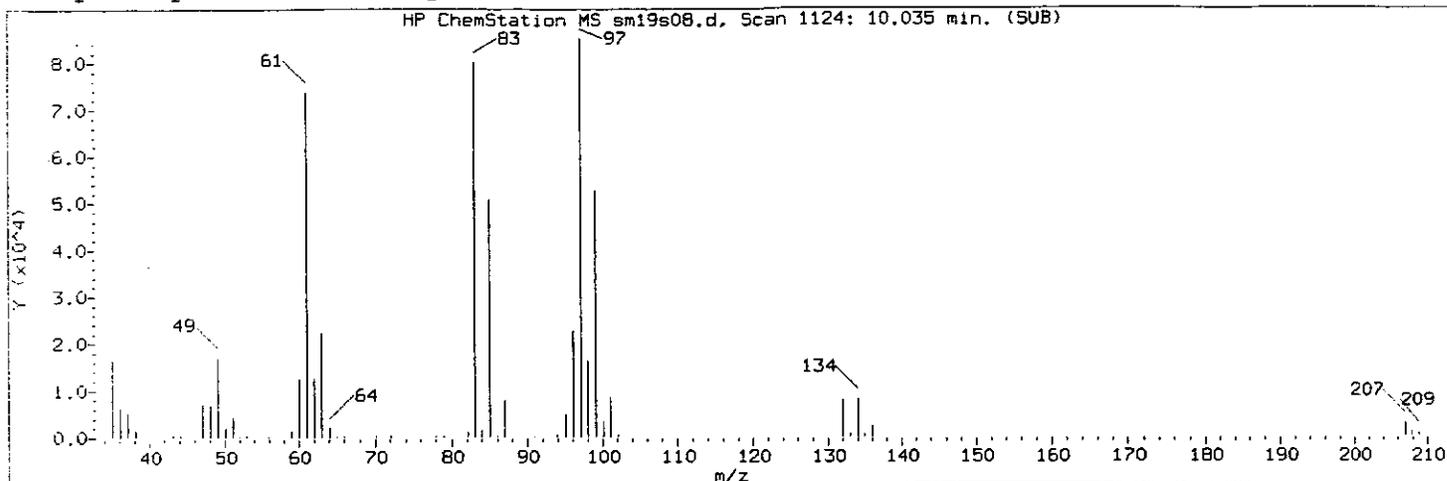
Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 19-Mar-2009 21:39 Automation

Sample Name: 110INMSD Lab Sample ID: 5624007

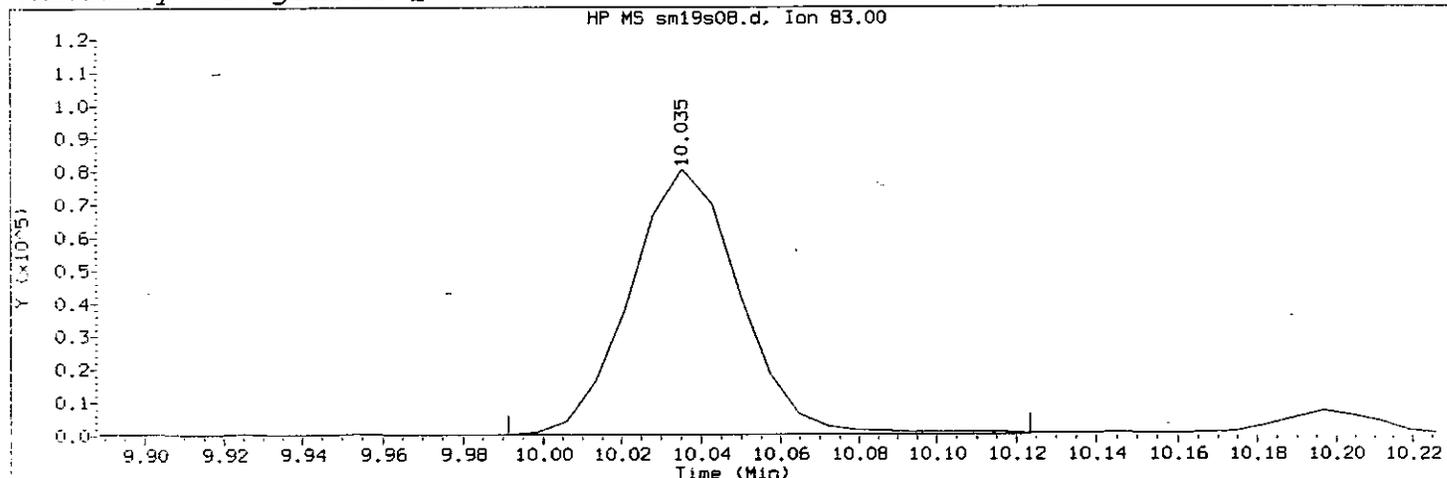
Compound Number : 37
 Compound Name : Carbon Tetrachloride
 Scan Number : 731
 Retention Time (minutes): 7.153
 Quant Ion : 117
 Area : 434209
 Concentration (ug/L) : 5.8581
 Integration start scan : 717 Integration stop scan: 753
 Y at integration start : 0 Y at integration end: 0

WATER 8284

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s08.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: 110INMSD Lab Sample ID: 5624007

Compound Number : 57
 Compound Name : 1,1,2-Trichloroethane
 Scan Number : 1124
 Retention Time (minutes): 10.035
 Quant Ion : 83
 Area (flag) : 154080 M
 Concentration (ug/L) : 5.9064
 Integration start scan : 1117 Integration stop scan: 1135
 Y at integration start : 0 Y at integration end: 0

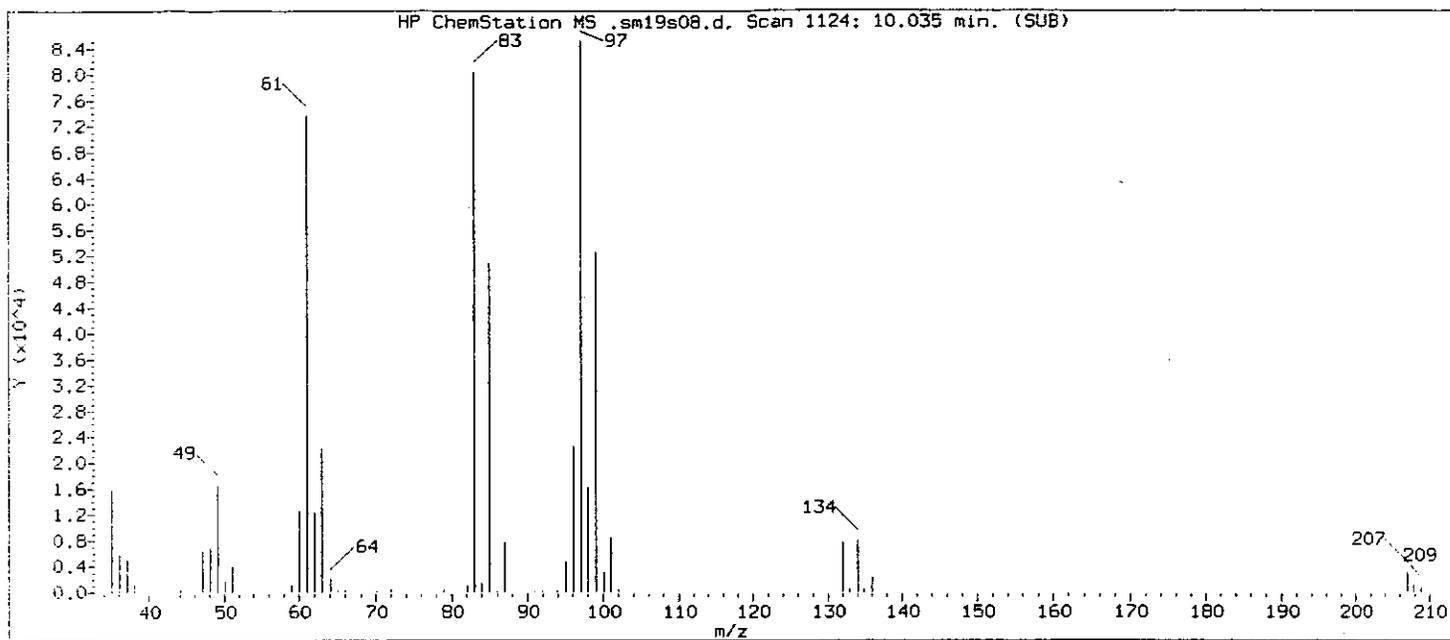
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MM 3/23/09

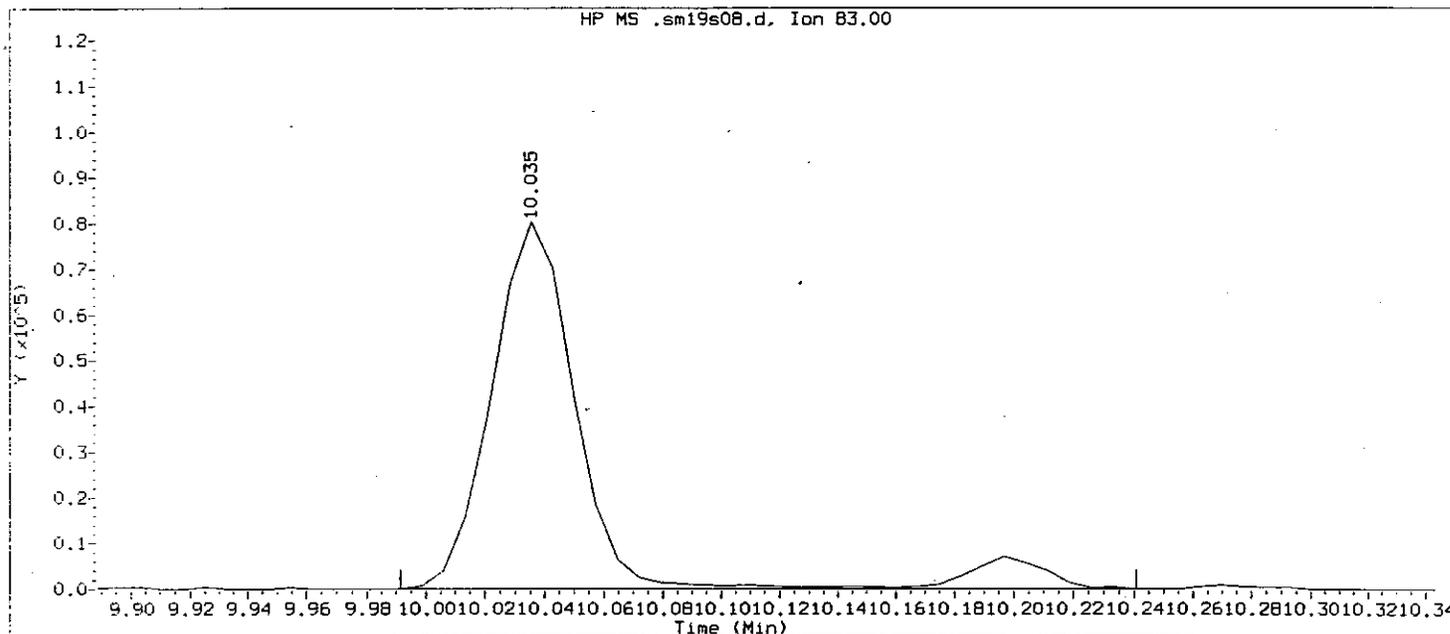
GC/MS audit/management approval: MM 3/24/09

WAT09 6285

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s08.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 21:00 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 19-Mar-2009 21:39 Automation

Sample Name: 110INMSD Lab Sample ID: 5624007

Compound Number : 57
 Compound Name : 1,1,2-Trichloroethane
 Scan Number : 1124
 Retention Time (minutes) : 10.035
 Quant Ion : 83
 Area : 167351
 Concentration (ug/L) : 6.4151
 Integration start scan : 1117 Integration stop scan: 1151
 Y at integration start : 0 Y at integration end: 0

WAT69 8286

LFBS54

Lancaster Laboratories Quantitation Report GC/MS Volatiles LFBS54

File: /chem/SH08359.i/09mar19a.b/sml9s01.d
 Sample: LFBS54;LFBS54;1;3;LCS;;DRAPER;
 Injected At:19-MAR-2009 17:40
 Calibration Time: 18-MAR-2009 16:28
 Target Method: S524RV4.m
 Blank Reference: sml9b01.d
 Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
 Batch: S090781BA Matrix: WATER
 Analyst: LCM01518 Level: Low
 Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
 Standard Reference: sml9c01.d Volume Purged: 25.0 ml (Vt)
 Prep Factor: 1.00
 Units: ug/L Bottle Code:

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.784(0.000) | 817 | 96 | 1324208(-4) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.993(0.000) | 174 | 279842 | 5.207 | 104% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(0.001) | 152 | 248343 | 5.215 | 104% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|------------------------------|-----------|---------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|------|
| 1) Dichlorodifluoromethane | (1) | 2.137(-0.001) | 85 | 184273 | 1.695 | 1.69 | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | 2.269(0.001) | 50 | 644773 | 2.076 | 2.08 | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | 2.416(-0.001) | 62 | 392424 | 1.765 | 1.77 | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | 2.761(0.000) | 94 | 215228 | 2.153 | 2.15 | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | 2.878(-0.002) | 64 | 235531 | 2.023 | 2.02 | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | 3.208(-0.001) | 101 | 195995 | 1.816 | 1.82 | | | 0.20 | 0.50 |
| 10) 1,1-Dichloroethene | (1) | 3.802(-0.001) | 96 | 415783 | 4.973 | 4.97 | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | 4.359(0.001) | 84 | 411541 | 5.869 | 5.87 | | | 0.30 | 0.50 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741(0.000) | 96 | 483273 | 5.334 | 5.33 | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | 5.305(0.000) | 63 | 1136133 | 5.115 | 5.11 | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134(0.000) | 96 | 429895 | 5.217 | 5.22 | | | 0.10 | 0.50 |
| 27) 2,2-Dichloropropane | (1) | 6.156(-0.001) | 77 | 497175 | 5.355 | 5.35 | | | 0.20 | 0.50 |
| 32) Bromochloromethane | (1) | 6.479(0.000) | 128 | 148210 | 5.387 | 5.39 | | | 0.10 | 0.50 |
| 34) Chloroform | (1) | 6.596(0.000) | 83 | 712735 | 5.656 | 5.66 | | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904(0.000) | 97 | 499340 | 5.396 | 5.40 | | | 0.10 | 0.50 |
| 37) Carbon Tetrachloride | (1) | 7.146(0.001) | 117 | 431865 | 5.746 | 5.75 | | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | 7.139(0.000) | 75 | 606327 | 5.320 | 5.32 | | | 0.10 | 0.50 |
| 39) Benzene | (1) | 7.425(0.000) | 78 | 1642450 | 5.501 | 5.50 | | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | 7.432(0.000) | 62 | 391007 | 5.597 | 5.60 | | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | 8.239(0.001) | 95 | 433359 | 5.211 | 5.21 | | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | 8.495(0.001) | 63 | 535150 | 5.151 | 5.15 | | | 0.10 | 0.50 |
| 46) Dibromomethane | (1) | 8.627(0.000) | 93 | 148422 | 5.662 | 5.66 | | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | 8.803(0.001) | 83 | 407546 | 5.877 | 5.88 | | | 0.10 | 0.50 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295(0.000) | 75 | 489459 | 5.440 | 5.44 | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

LFBS54

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBS54

File: /chem/SH08359.i/09mar19a.b/sml9s01.d
Sample: LFBS54;LFBS54;1;3;LCS;;DRAPER;
Injected At:19-MAR-2009 17:40
Calibration Time: 18-MAR-2009 16:28
Target Method: SS24RV4.m
Blank Reference: sml9b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA
Analyst: LCM01518
Instrument ID: SH08359.i
Standard Reference: sml9c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|-------------------------------|-----------|----------------|------|---------|-------------|-------------|-------|-----------|-------|
| | | | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 53) Toluene | (1) | 9.647(0.001) | 92 | 979021 | 5.408 | 5.41 | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | 9.852(0.001) | 75 | 339541 | 5.514 | 5.51 | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035(0.000) | 83 | 161487 | 6.105 | 6.11 | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | 10.197(0.000) | 166 | 420073 | 5.512 | 5.51 | | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | 10.204(0.000) | 76 | 307129 | 5.498 | 5.50 | | 0.10 | 0.50 |
| 61) Dibromochloromethane | (1) | 10.424(0.000) | 129 | 234879 | 5.738 | 5.74 | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | 10.534(0.001) | 107 | 164963 | 5.308 | 5.31 | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | 10.989(0.001) | 112 | 847972 | 5.372 | 5.37 | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062(0.000) | 131 | 283047 | 5.525 | 5.53 | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | 11.084(0.001) | 106 | 493890 | 4.968 | 4.97 | | 0.10 | 0.50 |
| 67) m-p-Xylene | (1) | 11.187(0.001) | 106 | 1259184 | 10.671 | 10.67 | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | 11.546(0.000) | 106 | 573333 | 5.053 | 5.05 | | 0.10 | 0.50 |
| 69) Styrene | (1) | 11.553(0.000) | 104 | 883727 | 5.622 | 5.62 | | 0.10 | 0.50 |
| 71) Bromoform | (1) | 11.715(0.001) | 173 | 114501 | 5.838 | 5.84 | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | 11.861(0.000) | 120 | 372459 | 5.191 | 5.19 | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096(0.000) | 83 | 193036 | 6.030 | 6.03 | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | 12.133(0.000) | 156 | 303356 | 5.251 | 5.25 | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140(0.001) | 110 | 37319 | 5.445 | 5.44 | | 0.10 | 0.50 |
| 78) n-Propylbenzene | (1) | 12.206(0.001) | 120 | 390482 | 5.460 | 5.46 | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | 12.287(0.001) | 126 | 357665 | 5.528 | 5.53 | | 0.10 | 0.50 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.345(0.001) | 105 | 1104918 | 5.271 | 5.27 | | 0.10 | 0.50 |
| 81) 4-Chlorotoluene | (1) | 12.382(0.000) | 126 | 355386 | 5.353 | 5.35 | | 0.20 | 0.50 |
| 82) tert-Butylbenzene | (1) | 12.624(0.001) | 134 | 256892 | 5.183 | 5.18 | | 0.10 | 0.50 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661(0.001) | 105 | 1110940 | 5.367 | 5.37 | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

LFBS54

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBS54

File: /chem/SH08359.i/09mar19a.b/sm19c01.d
Sample: LFBS54;LFBS54;1;3;LCS;;DRAPER;
Injected At:19-MAR-2009 17:40
Calibration Time: 18-MAR-2009 16:28
Target Method: SS24RV4.m
Blank Reference: sm19b01.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090781BA
Analyst: LCM01518
Instrument ID: SH08359.1
Standard Reference: sm19c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:

| Target Compounds | I.S. | | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|---------------------------------|------|----------------|------|---------|-------------|-------------|-------|-----------|-------|
| | Ref. | RT (+/-RRT) | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 85) sec-Butylbenzene | (1) | 12.807(0.000) | 134 | 270612 | 5.263 | 5.26 | | 0.10 | 0.50 |
| 86) p-Isopropyltoluene | (1) | 12.917(0.000) | 119 | 1108876 | 5.719 | 5.72 | | 0.10 | 0.50 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910(0.000) | 146 | 584961 | 5.248 | 5.25 | | 0.10 | 0.50 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983(0.000) | 146 | 569634 | 5.272 | 5.27 | | 0.10 | 0.50 |
| 89) n-Butylbenzene | (1) | 13.255(0.000) | 92 | 719990 | 5.616 | 5.62 | | 0.20 | 0.50 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291(0.000) | 146 | 438574 | 5.278 | 5.28 | | 0.10 | 0.50 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.900(0.001) | 157 | 19366 | 5.382 | 5.38 | | 0.40 | 0.50 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.560(0.001) | 180 | 223982 | 4.917 | 4.92 | | 0.20 | 0.50 |
| 96) Hexachlorobutadiene | (1) | 14.685(0.000) | 225 | 164145 | 4.538 | 4.54 | | 0.20 | 0.50 |
| 97) Naphthalene | (1) | 14.765(0.001) | 128 | 250985 | 4.802 | 4.80 | | 0.20 | 0.50 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949(0.001) | 180 | 159928 | 4.835 | 4.83 | | 0.20 | 0.50 |

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

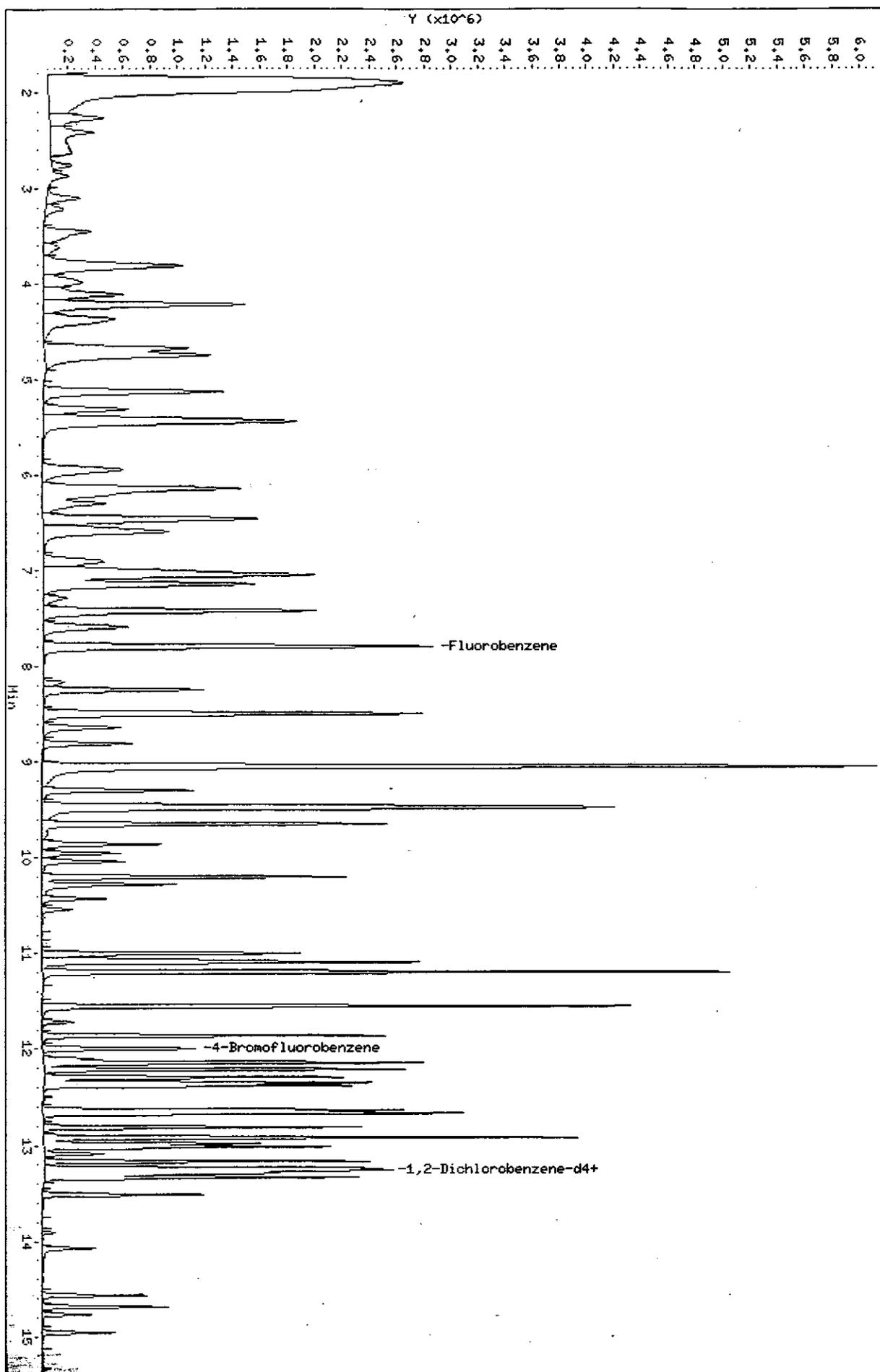
Analyst: MM Date: 3/23/09

Auditor: RL Date: 3/24/09

Data File: /chem/SH08359.1/09nar19a.b/sml9s01.d
Date: 19-MAR-2009 17:40
Client ID: LFBS54
Sample Info: LFBS54;LFBS54;1;3;LCS;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: SH08359.1
Operator: LCH01518
Column diameter: 0.25

/chem/SH08359.1/09nar19a.b/sml9s01.d



Handwritten signature
3/23/09

0020 0290

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 17:40 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: LFBS54

Lab Sample ID: LFBS54

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.137 | 85 | 184273 | 1.695 |
| 2) Chloromethane | (1) | 2.269 | 50 | 644773 | 2.076 |
| 3) Vinyl Chloride | (1) | 2.416 | 62 | 392424 | 1.765 |
| 4) Bromomethane | (1) | 2.761 | 94 | 215228 | 2.153 |
| 5) Chloroethane | (1) | 2.878 | 64 | 235531 | 2.023 |
| 7) Trichlorofluoromethane | (1) | 3.208 | 101 | 195995M | 1.816 |
| 10) 1,1-Dichloroethene | (1) | 3.802 | 96 | 415783 | 4.973 |
| 17) Methylene Chloride | (1) | 4.359 | 84 | 411541 | 5.869 |
| 20) trans-1,2-Dichloroethene | (1) | 4.741 | 96 | 483273 | 5.334 |
| 22) 1,1-Dichloroethane | (1) | 5.305 | 63 | 1136133 | 5.115 |
| 26) cis-1,2-Dichloroethene | (1) | 6.134 | 96 | 429895 | 5.217 |
| 27) 2,2-Dichloropropane | (1) | 6.156 | 77 | 497175 | 5.355 |
| 32) Bromochloromethane | (1) | 6.479 | 128 | 148210 | 5.387 |
| 34) Chloroform | (1) | 6.596 | 83 | 712735 | 5.656 |
| 35) 1,1,1-Trichloroethane | (1) | 6.904 | 97 | 499340 | 5.396 |
| 37) Carbon Tetrachloride | (1) | 7.146 | 117 | 431865 | 5.746 |
| 38) 1,1-Dichloropropene | (1) | 7.139 | 75 | 606327 | 5.320 |
| 39) Benzene | (1) | 7.425 | 78 | 1642450 | 5.501 |
| 40) 1,2-Dichloroethane | (1) | 7.432 | 62 | 391007 | 5.597 |
| 42)*Fluorobenzene | (1) | 7.784 | 96 | 1324208 | 5.000 |
| 43) Trichloroethene | (1) | 8.239 | 95 | 433359 | 5.211 |
| 44) 1,2-Dichloropropane | (1) | 8.495 | 63 | 535150 | 5.151 |
| 46) Dibromomethane | (1) | 8.627 | 93 | 148422 | 5.662 |
| 47) Bromodichloromethane | (1) | 8.803 | 83 | 407546 | 5.877 |
| 50) cis-1,3-Dichloropropene | (1) | 9.295 | 75 | 489459M | 5.440 |
| 53) Toluene | (1) | 9.647 | 92 | 979021 | 5.408 |
| 55) trans-1,3-Dichloropropene | (1) | 9.852 | 75 | 339541 | 5.514 |
| 57) 1,1,2-Trichloroethane | (1) | 10.035 | 83 | 161487 | 6.105 |
| 58) Tetrachloroethene | (1) | 10.197 | 166 | 420073 | 5.512 |
| 59) 1,3-Dichloropropane | (1) | 10.204 | 76 | 307129 | 5.498 |
| 61) Dibromochloromethane | (1) | 10.424 | 129 | 234879 | 5.738 |
| 62) 1,2-Dibromoethane | (1) | 10.534 | 107 | 164963 | 5.308 |
| 64) Chlorobenzene | (1) | 10.989 | 112 | 847972 | 5.372 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.062 | 131 | 283047 | 5.525 |

M = Compound was manually integrated.

* = Compound is an internal standard.

MAR09 0201

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar19a.b/sm19s01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 17:40 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

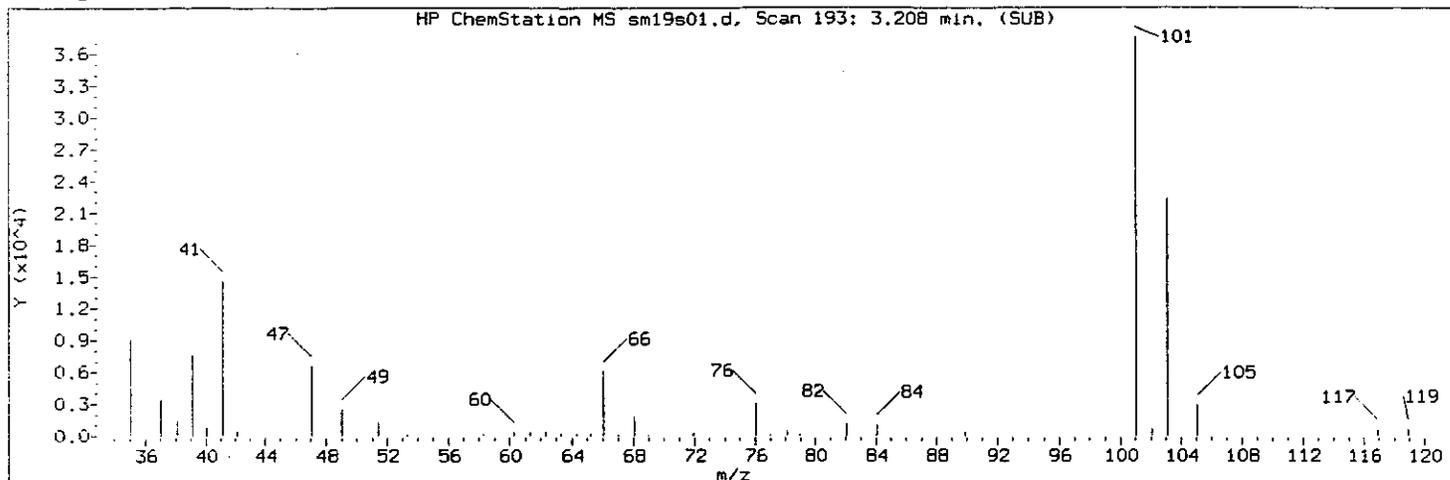
Sample Name: LFBS54

Lab Sample ID: LFBS54

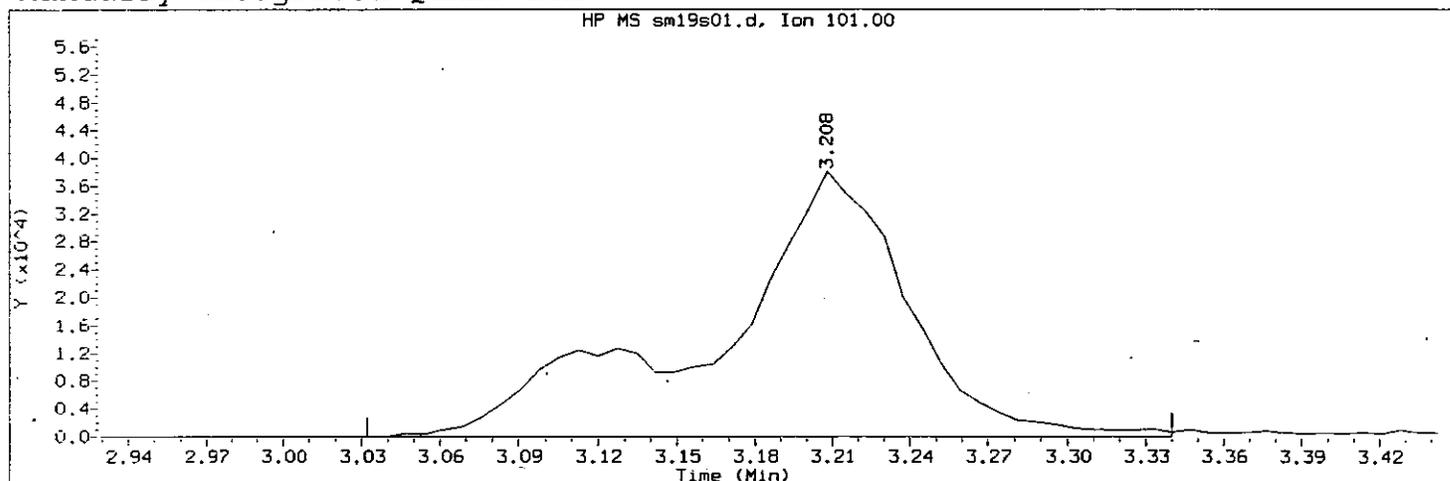
| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 66) Ethylbenzene | (1) | 11.084 | 106 | 493890 | 4.968 |
| 67) m+p-Xylene | (1) | 11.187 | 106 | 1259184 | 10.671 |
| 68) o-Xylene | (1) | 11.546 | 106 | 573333 | 5.053 |
| 69) Styrene | (1) | 11.553 | 104 | 883727 | 5.622 |
| 71) Bromoform | (1) | 11.715 | 173 | 114501 | 5.838 |
| 72) Isopropylbenzene | (1) | 11.861 | 120 | 372459 | 5.191 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.096 | 83 | 193036 | 6.030 |
| 75) Bromobenzene | (1) | 12.133 | 156 | 303356 | 5.251 |
| 76) 1,2,3-Trichloropropane | (1) | 12.140 | 110 | 37319 | 5.445 |
| 78) n-Propylbenzene | (1) | 12.206 | 120 | 390482 | 5.460 |
| 79) 2-Chlorotoluene | (1) | 12.287 | 126 | 357665 | 5.528 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.345 | 105 | 1104918 | 5.271 |
| 81) 4-Chlorotoluene | (1) | 12.382 | 126 | 355386 | 5.353 |
| 82) tert-Butylbenzene | (1) | 12.624 | 134 | 256892 | 5.183 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661 | 105 | 1110940 | 5.367 |
| 85) sec-Butylbenzene | (1) | 12.807 | 134 | 270612 | 5.263 |
| 86) p-Isopropyltoluene | (1) | 12.917 | 119 | 1108876 | 5.719 |
| 87) 1,3-Dichlorobenzene | (1) | 12.910 | 146 | 584961 | 5.248 |
| 88) 1,4-Dichlorobenzene | (1) | 12.983 | 146 | 569634 | 5.272 |
| 89) n-Butylbenzene | (1) | 13.255 | 92 | 719990 | 5.616 |
| 91) 1,2-Dichlorobenzene | (1) | 13.291 | 146 | 438574 | 5.278 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.900 | 157 | 19366 | 5.382 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.560 | 180 | 223982 | 4.917 |
| 96) Hexachlorobutadiene | (1) | 14.685 | 225 | 164145 | 4.538 |
| 97) Naphthalene | (1) | 14.765 | 128 | 250985 | 4.802 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.949 | 180 | 159928 | 4.835 |
| 73) \$4-Bromofluorobenzene | (1) | 11.993 | 174 | 279842 | 5.207 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 248343 | 5.215 |

\$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 17:40 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
 Calibration date and time: 23-MAR-2009 14:04
 Date, time and analyst ID of latest file update: 23-Mar-2009 16:40 rvn00349

Sample Name: LFBS54 Lab Sample ID: LFBS54

Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 193
 Retention Time (minutes): 3.208
 Quant Ion : 101
 Area (flag) : 195995 M
 Concentration (ug/L) : 1.8160
 Integration start scan : 168 Integration stop scan: 210
 Y at integration start : 0 Y at integration end: 0

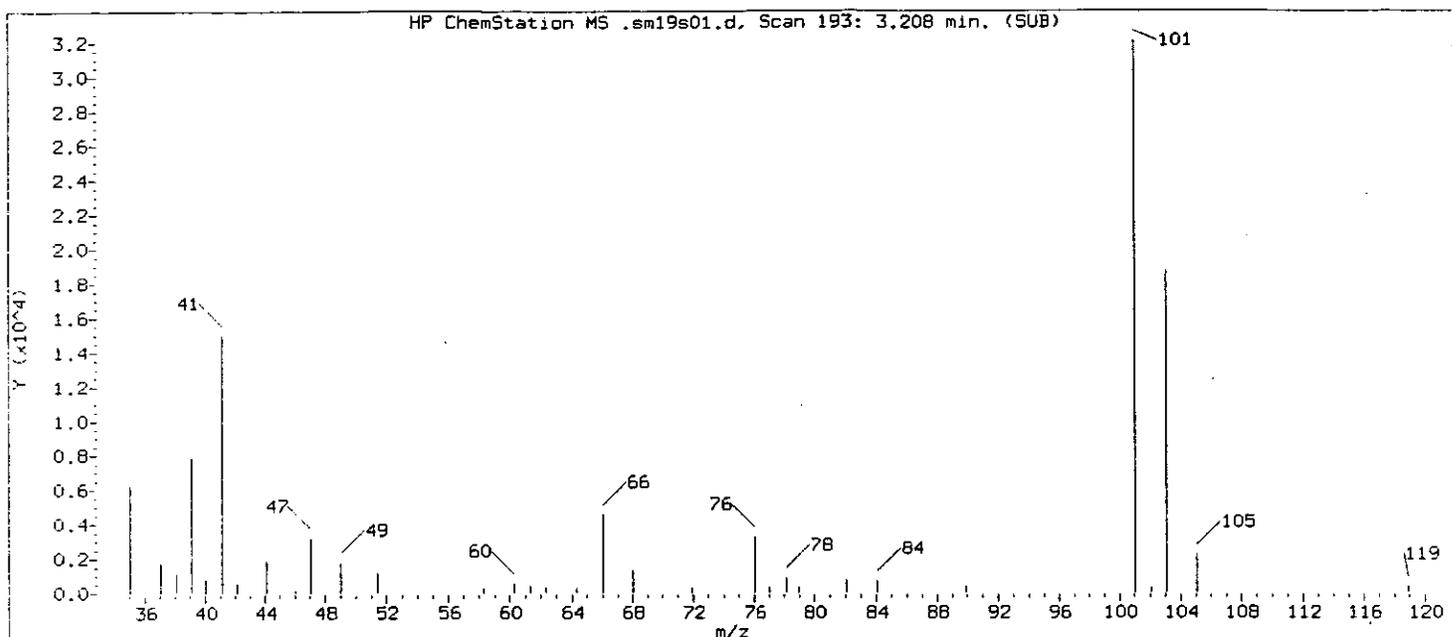
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MM 3/23/09

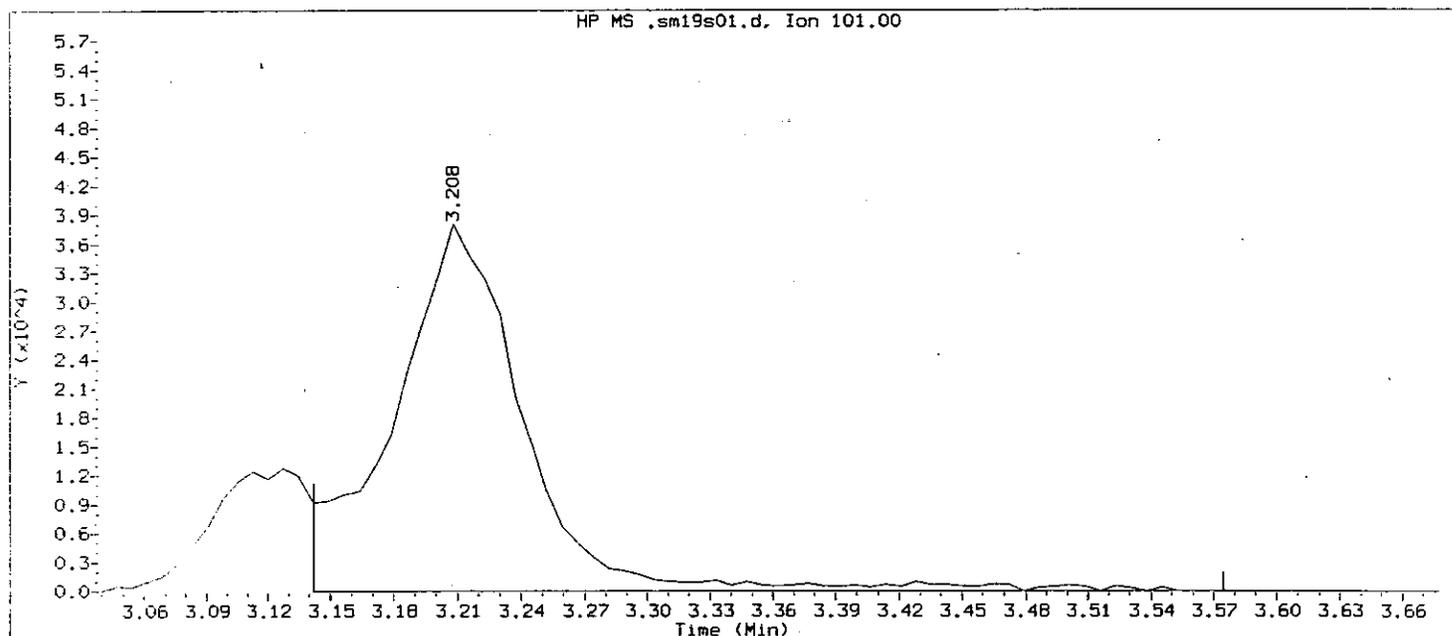
WAT89 8293

GC/MS audit/management approval: MM 3/24/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s01.d Instrument ID: SH08359.i
 Injection date and time: 19-MAR-2009 17:40 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 19-MAR-2009 16:45
 Date, time and analyst ID of latest file update: 19-Mar-2009 18:00 Automation

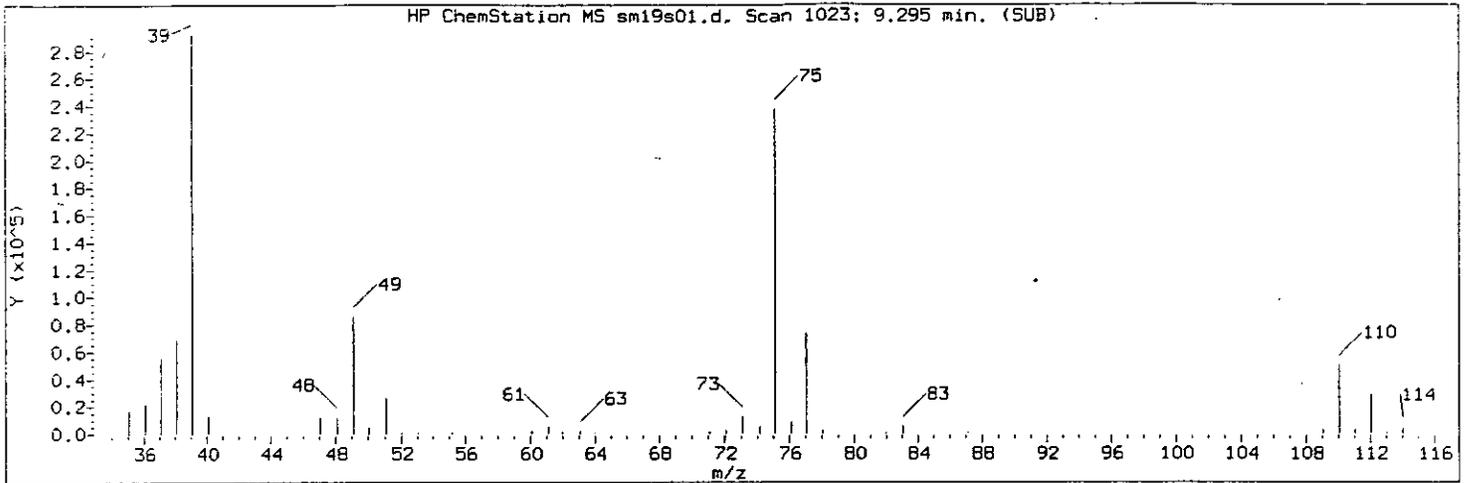
Sample Name: LFBS54

Lab Sample ID: LFBS54

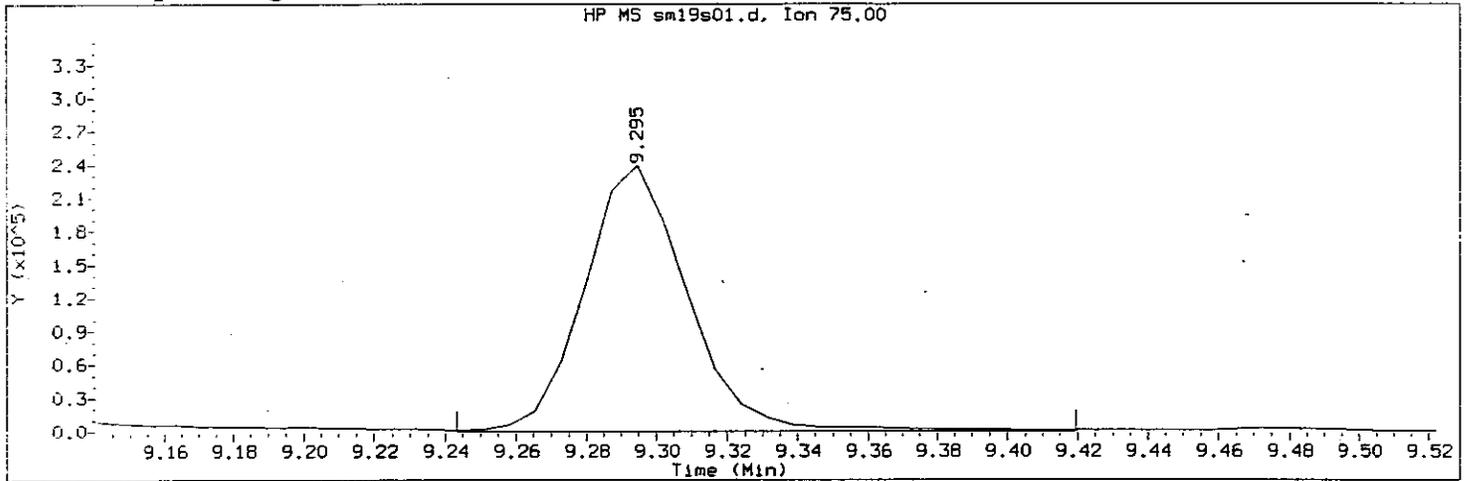
Compound Number : 7
 Compound Name : Trichlorofluoromethane
 Scan Number : 193
 Retention Time (minutes) : 3.208
 Quant Ion : 101
 Area : 161951
 Concentration (ug/L) : 1.5005
 Integration start scan : 183 Integration stop scan: 242
 Y at integration start : 0 Y at integration end: 0

DATE: 8294

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s01.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 17:40 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2009 14:04
Date, time and analyst ID of latest file update: 23-Mar-2009 16:40. rvn00349

Sample Name: LFBS54 Lab Sample ID: LFBS54

Compound Number : 50
Compound Name : cis-1,3-Dichloropropene
Scan Number : 1023
Retention Time (minutes): 9.295
Quant Ion : 75
Area (flag) : 489459 M
Concentration (ug/L) : 5.4397
Integration start scan : 1015 Integration stop scan: 1039
Y at integration start : 0 Y at integration end: 0

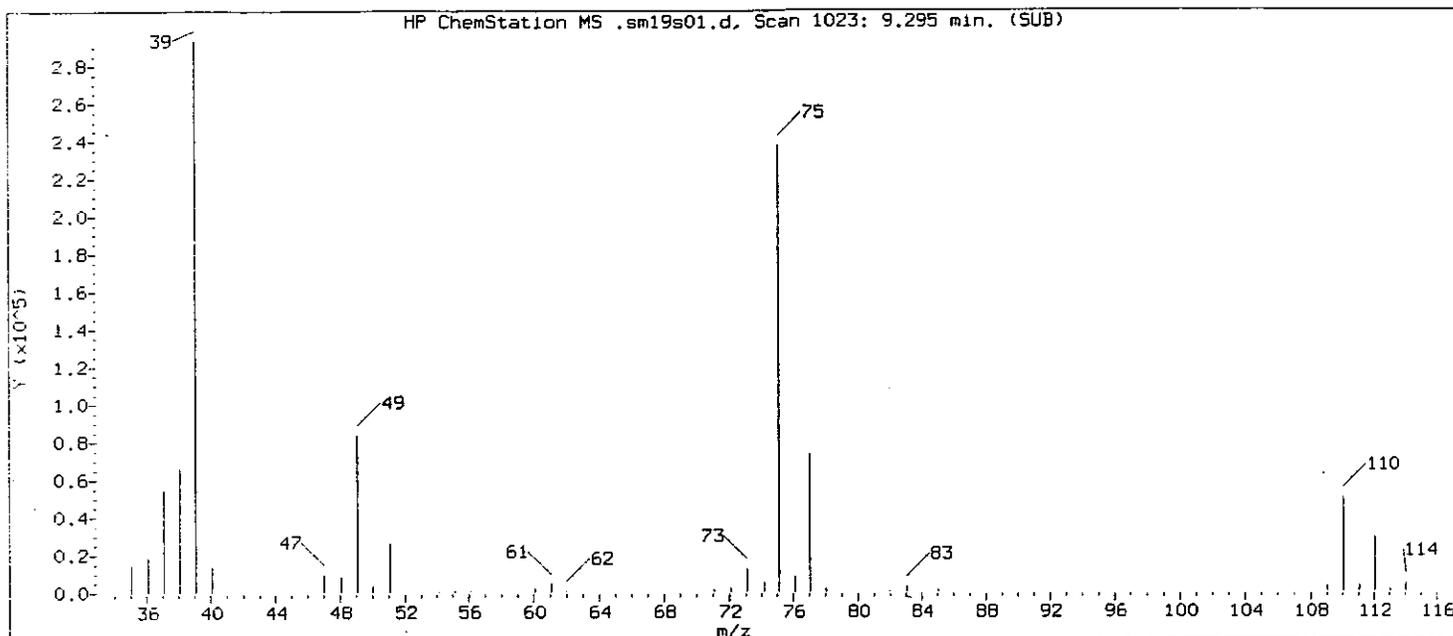
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MMM 3/23/09

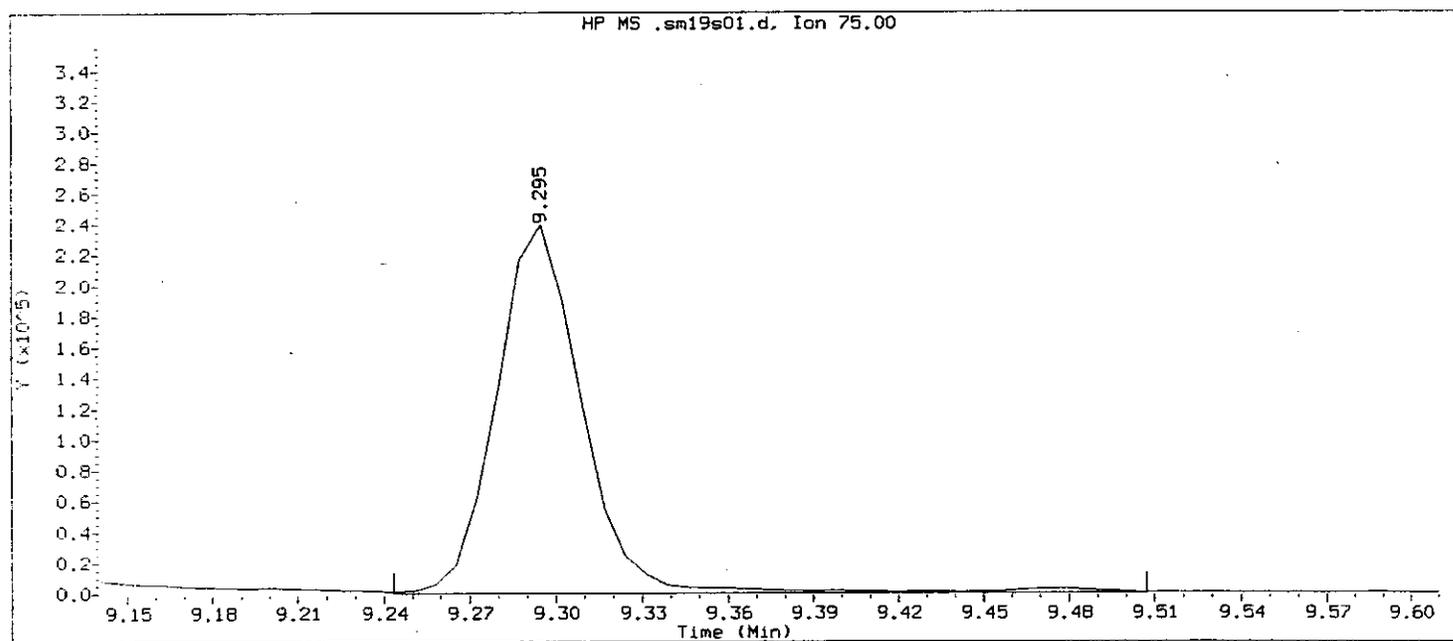
44789 8295

GC/MS audit/management approval: MMM 3/23/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08359.i/09mar19a.b/sm19s01.d Instrument ID: SH08359.i
Injection date and time: 19-MAR-2009 17:40 Analyst ID: LCM01518

Method used: /chem/SH08359.i/09mar19a.b/S524RV4.m Sublist used: REV4+ACRO
Calibration date and time: 19-MAR-2009 16:45
Date, time and analyst ID of latest file update: 19-Mar-2009 18:00 Automation

Sample Name: LFBS54

Lab Sample ID: LFBS54

Compound Number : 50
Compound Name : cis-1,3-Dichloropropene
Scan Number : 1023
Retention Time (minutes): 9.295
Quant Ion : 75
Area : 497355
Concentration (ug/L) : 5.5275
Integration start scan : 1015 Integration stop scan: 1051
Y at integration start : 0 Y at integration end: 0

44789 8296

LFBS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBS55

File: /chem/SH08359.i/09mar20a.b/sm20s01.d
Sample: LFBS55;LFBS55;1;3;LCS;;;
Injected At: 20-MAR-2009 07:34
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm20b01.d
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA Matrix: WATER
Analyst: amd00492 Level: Low
Instrument ID: SH08359.1 Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code:

| Internal Standards | RT(+/-RT) | Scan | QIon | Area(+/- %Area) | Conc(ext) | QC Flag |
|--------------------|---------------|------|------|-----------------|-----------|---------|
| 42) Fluorobenzene | 7.777(0.000) | 816 | 96 | 1237686(-4) | 5.00 | |

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

| Surrogate Standards | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | %Rec. | QC flags | QC Limits |
|----------------------------|-----------|----------------|------|--------|-------------------|-------|----------|-----------|
| 73) 4-Bromofluorobenzene | (1) | 11.986(0.001) | 174 | 266310 | 5.302 | 106% | | 80 - 120 |
| 90) 1,2-Dichlorobenzene-d4 | (1) | 13.269(0.000) | 152 | 242174 | 5.441 | 109% | | 80 - 120 |

** = SSTD area < 50% of referenced CCal standard # = RRT out of range * = % Rec. out of range NC = Unable to calculate

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|---------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|-------|
| 1) Dichlorodifluoromethane | (1) | 2.130(0.001) | 85 | 174559 | 1.718 | 1.72 | | | 0.20 | 0.50 |
| 2) Chloromethane | (1) | 2.262(0.001) | 50 | 739596 | 2.548 | 2.55 | | | 0.20 | 0.50 |
| 3) Vinyl Chloride | (1) | 2.409(0.000) | 62 | 422880 | 2.035 | 2.04 | | | 0.10 | 0.50 |
| 4) Bromomethane | (1) | 2.753(0.001) | 94 | 239397 | 2.562 | 2.56 | | | 0.10 | 0.50 |
| 5) Chloroethane | (1) | 2.871(-0.001) | 64 | 253252 | 2.327 | 2.33 | | | 0.20 | 0.50 |
| 6) Dichlorofluoromethane | (1) | 3.091(0.001) | 67 | 490144 | 2.269 | 2.27 | | | 0.20 | 0.50 |
| 7) Trichlorofluoromethane | (1) | 3.201(0.000) | 101 | 145131 | 1.439 | 1.44 | | | 0.20 | 0.50 |
| 8) Ethyl Ether | (1) | 3.435(0.000) | 59 | 287079 | 6.292 | 6.29 | | | 0.20 | 0.50 |
| 9) Acrolein | (1) | 3.597(0.000) | 56 | 311127 | 42.744 | 42.74 | | J | 15.00 | 50.00 |
| 10) 1,1-Dichloroethene | (1) | 3.787(0.001) | 96 | 374051 | 4.787 | 4.79 | | | 0.10 | 0.50 |
| 11) Freon 113 | (1) | 3.817(0.001) | 101 | 323180 | 4.412 | 4.41 | | | 0.20 | 0.50 |
| 12) Acetone | (1) | 3.787(-0.001) | 58 | 131084 | 46.301 | 46.30 | | | 3.00 | 5.00 |
| 13) Methyl Iodide | (1) | 3.985(-0.002) | 142 | 742586 | 5.265 | 5.27 | | | 0.10 | 0.50 |
| 14) Carbon Disulfide | (1) | 4.095(0.000) | 76 | 1431024 | 5.542 | 5.54 | | | 0.40 | 2.00 |
| 15) Allyl Chloride | (1) | 4.205(-0.001) | 39 | 1094439 | 5.164 | 5.16 | | | 0.10 | 0.50 |
| 17) Methylene Chloride | (1) | 4.352(0.000) | 84 | 404895 | 6.178 | 6.18 | | | 0.30 | 0.50 |
| 18) t-Butyl Alcohol | (1) | 4.469(0.002) | 59 | 121638 | 53.194 | 53.19 | | | 5.00 | 25.00 |
| 19) Acrylonitrile | (1) | 4.660(0.000) | 53 | 1921471 | 148.761 | 148.76 | | | 2.00 | 10.00 |
| 20) trans-1,2-Dichloroethene | (1) | 4.733(0.000) | 96 | 450767 | 5.323 | 5.32 | | | 0.10 | 0.50 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.741(0.001) | 73 | 458095 | 5.394 | 5.39 | | | 0.10 | 0.50 |
| 22) 1,1-Dichloroethane | (1) | 5.291(0.001) | 63 | 1069463 | 5.151 | 5.15 | | | 0.10 | 0.50 |
| 24) di-Isopropyl Ether | (1) | 5.401(0.001) | 87 | 247526 | 5.671 | 5.67 | | | 0.10 | 0.50 |
| 25) Ethyl t-Butyl Ether | (1) | 5.929(0.001) | 59 | 1158620 | 5.498 | 5.50 | | | 0.10 | 0.50 |
| 26) cis-1,2-Dichloroethene | (1) | 6.119(0.001) | 96 | 422387 | 5.485 | 5.48 | | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE.

LFBS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBS55

File: /chem/SH08359.i/09mar20a.b/sm20s01.d
Sample: LFBS55;LFBS55;1;3;LCS;;;
Injected At: 20-MAR-2009 07:34
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm20b01.d
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA
Analyst: amd00492
Instrument ID: SH08359.i
Standard Reference: sm20c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. | Conc. | Blank | Reporting | |
|-----------------------------|--------------|---------------|------|---------|-------------|-------------|-------|-----------|-------|
| | | | | | (on column) | (in sample) | Conc. | Qual. | Limit | LOQ |
| 27) 2,2-Dichloropropane | (1) | 6.141(0.001) | 77 | 467815 | 5.391 | 5.39 | | 0.20 | 0.50 |
| 28) 2-Butanone | (1) | 6.134(-0.001) | 43 | 869979 | 44.953 | 44.95 | | 2.00 | 5.00 |
| 29) Propionitrile | (1) | 6.207(-0.001) | 54 | 566081 | 125.022 | 125.02 | | 3.00 | 10.00 |
| 30) Methyl Acrylate | (1) | 6.281(0.001) | 55 | 1020346 | 32.723 | 32.72 | | 0.50 | 5.00 |
| 31) Methacrylonitrile | (1) | 6.435(0.000) | 67 | 446996 | 39.260 | 39.26 | | 1.00 | 5.00 |
| 32) Bromochloromethane | (1) | 6.464(0.000) | 128 | 152231 | 5.920 | 5.92 | | 0.10 | 0.50 |
| 33) Tetrahydrofuran | (1) | 6.545(0.000) | 71 | 121796 | 47.849 | 47.85 | | 2.00 | 5.00 |
| 34) Chloroform | (1) | 6.589(0.000) | 83 | 686095 | 5.825 | 5.82 | | 0.10 | 0.50 |
| 35) 1,1,1-Trichloroethane | (1) | 6.889(0.001) | 97 | 467181 | 5.401 | 5.40 | | 0.10 | 0.50 |
| 36) 1-Chlorobutane | (1) | 7.036(0.001) | 49 | 65895 | 6.755 | 6.75 | | 0.20 | 0.50 |
| 37) Carbon Tetrachloride | (1) | 7.139(0.001) | 117 | 402332 | 5.728 | 5.73 | | 0.10 | 0.50 |
| 38) 1,1-Dichloropropene | (1) | 7.124(0.001) | 75 | 560116 | 5.258 | 5.26 | | 0.10 | 0.50 |
| 39) Benzene | (1) | 7.410(0.000) | 78 | 1567227 | 5.616 | 5.62 | | 0.10 | 0.50 |
| 40) 1,2-Dichloroethane | (1) | 7.417(0.001) | 62 | 375054 | 5.744 | 5.74 | | 0.10 | 0.50 |
| 41) t-Amyl Methyl Ether | (1) | 7.571(0.001) | 73 | 577100 | 5.410 | 5.41 | | 0.10 | 0.50 |
| 43) Trichloroethene | (1) | 8.231(0.001) | 95 | 410692 | 5.283 | 5.28 | | 0.10 | 0.50 |
| 44) 1,2-Dichloropropane | (1) | 8.488(0.001) | 63 | 505134 | 5.202 | 5.20 | | 0.10 | 0.50 |
| 45) Methyl Methacrylate | (1) | 8.627(0.001) | 69 | 95050 | 5.074 | 5.07 | | 0.20 | 0.50 |
| 46) Dibromomethane | (1) | 8.613(0.001) | 93 | 140942 | 5.752 | 5.75 | | 0.10 | 0.50 |
| 47) Bromodichloromethane | (1) | 8.796(0.001) | 83 | 395403 | 6.101 | 6.10 | | 0.10 | 0.50 |
| 48) 2-Nitropropane | (1) | 9.038(0.001) | 46 | 231605 | 708.387 | 708.39 | | 9.00 | 50.00 |
| 49) Chloroacetonitrile | (1) | 9.067(0.000) | 75 | 312087 | 281.131 | 281.13 | | 7.00 | 50.00 |
| 50) cis-1,3-Dichloropropene | (1) | 9.287(0.000) | 75 | 477261 | 5.675 | 5.67 | | 0.10 | 0.50 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.441(0.001) | 58 | 411222 | 31.566 | 31.57 | | 0.60 | 5.00 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

LFBS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBS55

File: /chem/SH08359.i/09mar20a.b/sm20s01.d
Sample: LFBS55;LFBS55;1;3;LCS;;;
Injected At: 20-MAR-2009 07:34
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm20b01.d
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA Matrix: WATER
Analyst: amd00492 Level: Low
Instrument ID: SH08359.i Sample Wt./Vol.: 25.0000 ml (Vo)
Standard Reference: sm20c01.d Volume Purged: 25.0 ml (Vt)
Prep Factor: 1.00
Units: ug/L Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | Qion | Area | Conc. | Conc. | Blank Conc. | Reporting | |
|---------------------------------|--------------|----------------|------|---------|-------------|-------------|----------------|-----------|-------|
| | | | | | (on column) | (in sample) | | Qual. | Limit | LOQ |
| 52) 1,1-Dichloropropanone | (1) | 9.463(0.001) | 83 | 243773 | 657.750 | 657.75 | | 9.00 | 50.00 |
| 53) Toluene | (1) | 9.639(0.001) | 92 | 927521 | 5.482 | 5.48 | | 0.10 | 0.50 |
| 55) trans-1,3-Dichloropropene | (1) | 9.845(0.001) | 75 | 331450 | 5.759 | 5.76 | | 0.10 | 0.50 |
| 56) Ethyl Methacrylate | (1) | 9.940(0.001) | 69 | 201819 | 5.276 | 5.28 | | 0.10 | 0.50 |
| 57) 1,1,2-Trichloroethane | (1) | 10.028(0.001) | 83 | 155995 | 6.310 | 6.31 | | 0.10 | 0.50 |
| 58) Tetrachloroethene | (1) | 10.189(0.000) | 166 | 396017 | 5.560 | 5.56 | | 0.10 | 0.50 |
| 59) 1,3-Dichloropropane | (1) | 10.197(0.000) | 76 | 300945 | 5.764 | 5.76 | | 0.10 | 0.50 |
| 60) 2-Hexanone | (1) | 10.270(0.000) | 58 | 360267 | 30.560 | 30.56 | | 0.60 | 5.00 |
| 61) Dibromochloromethane | (1) | 10.409(0.001) | 129 | 228223 | 5.965 | 5.96 | | 0.10 | 0.50 |
| 62) 1,2-Dibromoethane | (1) | 10.527(0.001) | 107 | 159158 | 5.480 | 5.48 | | 0.10 | 0.50 |
| 64) Chlorobenzene | (1) | 10.989(0.000) | 112 | 818111 | 5.545 | 5.55 | | 0.10 | 0.50 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.055(0.001) | 131 | 275055 | 5.745 | 5.74 | | 0.10 | 0.50 |
| 66) Ethylbenzene | (1) | 11.084(0.000) | 106 | 475545 | 5.118 | 5.12 | | 0.10 | 0.50 |
| 67) m+p-Xylene | (1) | 11.187(0.000) | 106 | 1198143 | 10.863 | 10.86 | | 0.20 | 0.50 |
| 68) o-Xylene | (1) | 11.539(0.001) | 106 | 541297 | 5.104 | 5.10 | | 0.10 | 0.50 |
| 69) Styrene | (1) | 11.546(0.000) | 104 | 834999 | 5.683 | 5.68 | | 0.10 | 0.50 |
| 71) Bromoform | (1) | 11.707(0.001) | 173 | 110630 | 6.035 | 6.04 | | 0.20 | 0.50 |
| 72) Isopropylbenzene | (1) | 11.854(0.001) | 120 | 346259 | 5.164 | 5.16 | | 0.10 | 0.50 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.089(0.001) | 83 | 185486 | 6.199 | 6.20 | | 0.10 | 0.50 |
| 75) Bromobenzene | (1) | 12.125(0.000) | 156 | 291582 | 5.400 | 5.40 | | 0.10 | 0.50 |
| 76) 1,2,3-Trichloropropane | (1) | 12.133(0.001) | 110 | 35752 | 5.581 | 5.58 | | 0.20 | 0.50 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.140(0.000) | 53 | 322323 | 30.502 | 30.50 | | 1.00 | 5.00 |
| 78) n-Propylbenzene | (1) | 12.199(0.001) | 120 | 366531 | 5.484 | 5.48 | | 0.10 | 0.50 |
| 79) 2-Chlorotoluene | (1) | 12.287(0.000) | 126 | 340021 | 5.623 | 5.62 | | 0.10 | 0.50 |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

LFBS55

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBS55

File: /chem/SH08359.i/09mar20a.b/sm20s01.d
Sample: LFBS55;LFBS55;1;3;LCS;;;
Injected At: 20-MAR-2009 07:34
Calibration Time: 18-MAR-2009 16:28
Target Method: S524RV4.m
Blank Reference: sm20b01.d
Sublist: REV4+ACRO

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch: S090791AA
Analyst: amd00492
Instrument ID: SH08359.i
Standard Reference: sm20c01.d
Prep Factor: 1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 25.0000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:

| Target Compounds | I.S. Ref. | RT (+/-RRT) | QIon | Area | Conc. (on column) | Conc. (in sample) | Blank Conc. | Reporting Qual. | Limit | LOQ |
|---------------------------------|-----------|----------------|------|---------|-------------------|-------------------|-------------|-----------------|-------|-----|
| 80) 1,3,5-Trimethylbenzene | (1) | 12.345(0.000) | 105 | 1051812 | 5.368 | 5.37 | | 0.10 | 0.50 | |
| 81) 4-Chlorotoluene | (1) | 12.375(0.000) | 126 | 349476 | 5.632 | 5.63 | | 0.20 | 0.50 | |
| 82) tert-Butylbenzene | (1) | 12.624(0.000) | 134 | 246059 | 5.312 | 5.31 | | 0.10 | 0.50 | |
| 83) Pentachloroethane | (1) | 12.646(0.000) | 167 | 179382 | 5.829 | 5.83 | | 0.10 | 0.50 | |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661(0.000) | 105 | 1051719 | 5.436 | 5.44 | | 0.10 | 0.50 | |
| 85) sec-Butylbenzene | (1) | 12.800(0.001) | 134 | 258021 | 5.369 | 5.37 | | 0.10 | 0.50 | |
| 86) p-Isopropyltoluene | (1) | 12.910(0.001) | 119 | 1053428 | 5.813 | 5.81 | | 0.10 | 0.50 | |
| 87) 1,3-Dichlorobenzene | (1) | 12.903(0.001) | 146 | 566763 | 5.440 | 5.44 | | 0.10 | 0.50 | |
| 88) 1,4-Dichlorobenzene | (1) | 12.976(0.001) | 146 | 555170 | 5.498 | 5.50 | | 0.10 | 0.50 | |
| 89) n-Butylbenzene | (1) | 13.247(0.000) | 92 | 675060 | 5.634 | 5.63 | | 0.20 | 0.50 | |
| 91) 1,2-Dichlorobenzene | (1) | 13.284(0.000) | 146 | 432743 | 5.571 | 5.57 | | 0.10 | 0.50 | |
| 92) Hexachloroethane | (1) | 13.504(0.000) | 201 | 187679 | 5.395 | 5.39 | | 0.10 | 0.50 | |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.900(0.000) | 157 | 18235 | 5.422 | 5.42 | | 0.40 | 1.00 | |
| 94) Nitrobenzene | (1) | 14.061(0.001) | 77 | 151994 | 223.524 | 223.52 | | 5.00 | 50.00 | |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.560(0.000) | 180 | 212271 | 4.986 | 4.99 | | 0.20 | 0.50 | |
| 96) Hexachlorobutadiene | (1) | 14.677(0.001) | 225 | 159559 | 4.720 | 4.72 | | 0.20 | 0.50 | |
| 97) Naphthalene | (1) | 14.758(0.001) | 128 | 239166 | 4.896 | 4.90 | | 0.20 | 0.50 | |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.941(0.001) | 180 | 147806 | 4.780 | 4.78 | | 0.20 | 0.50 | |

E = CONC. OUT OF CAL. RANGE

= RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: L. J. Amadio

Date: 3/20/09

Auditor: PSA

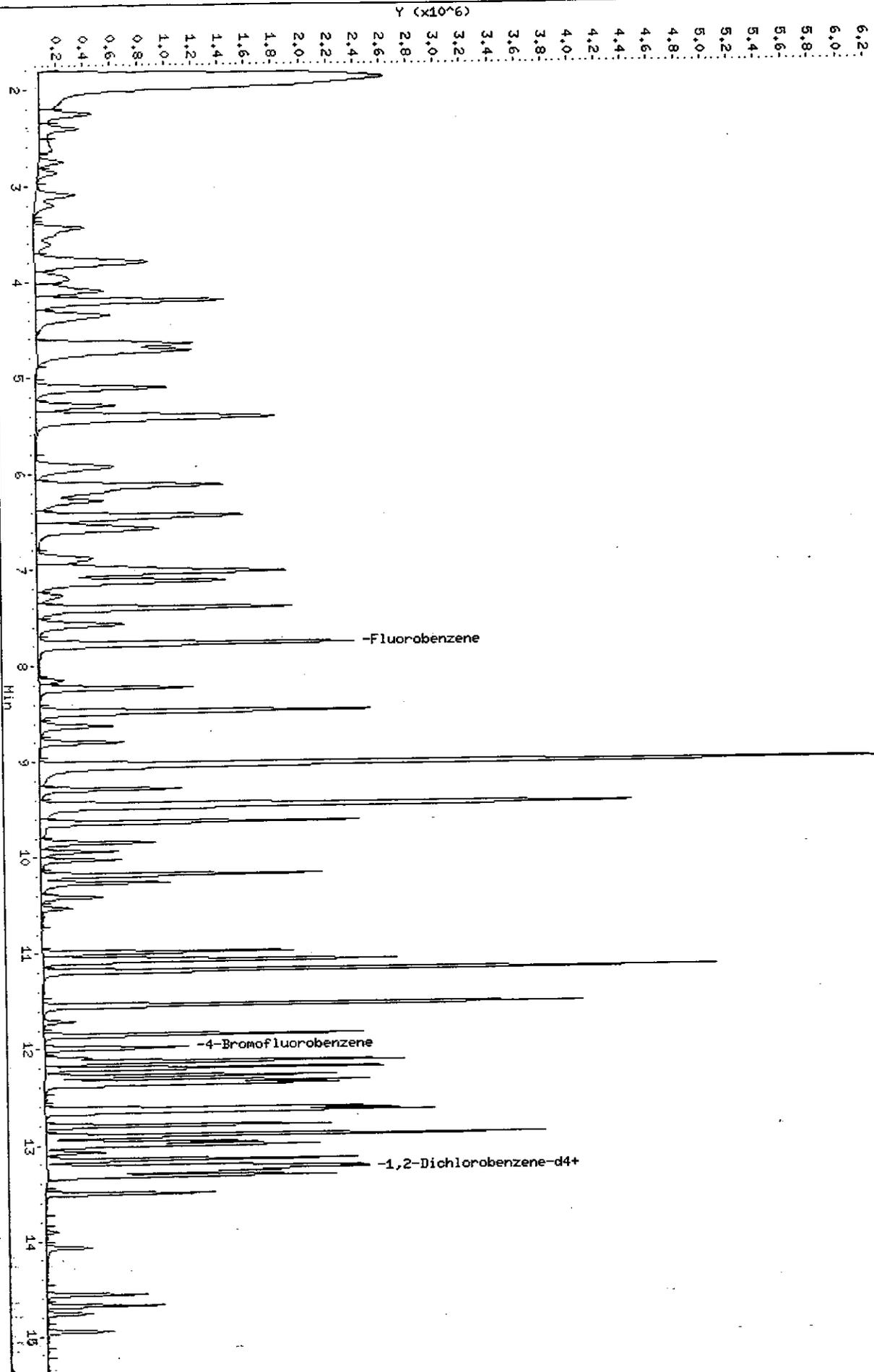
Date: 3/20/09

Data File: /chem/SH08359.1/09mar20a,b/sm20s01.d
Date: 20-MAR-2009 07:34
Client ID: LFBSS5
Sample Info: LFBSS5;LFBSS5;1;3;LCS;1;1
Purge Volume: 25.0
Column phase: DB-624

*50/100%
m20067*

Instrument: SH08359.i
Operator: amd00492
Column diameter: 0.25

/chem/SH08359.1/09mar20a,b/sm20s01.d



Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20s01.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 07:34 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 20-Mar-2009 07:50 Automation

Sample Name: LFBS55

Lab Sample ID: LFBS55

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|-------|------|---------|----------------------|
| 1) Dichlorodifluoromethane | (1) | 2.130 | 85 | 174559 | 1.718 |
| 2) Chloromethane | (1) | 2.262 | 50 | 739596 | 2.548 |
| 3) Vinyl Chloride | (1) | 2.409 | 62 | 422880 | 2.035 |
| 4) Bromomethane | (1) | 2.753 | 94 | 239397 | 2.562 |
| 5) Chloroethane | (1) | 2.871 | 64 | 253252 | 2.327 |
| 6) Dichlorofluoromethane | (1) | 3.091 | 67 | 490144 | 2.269 |
| 7) Trichlorofluoromethane | (1) | 3.201 | 101 | 145131 | 1.439 |
| 8) Ethyl Ether | (1) | 3.435 | 59 | 287079 | 6.292 |
| 9) Acrolein | (1) | 3.597 | 56 | 311127 | 42.744 |
| 10) 1,1-Dichloroethene | (1) | 3.787 | 96 | 374051 | 4.787 |
| 11) Freon 113 | (1) | 3.817 | 101 | 323180 | 4.412 |
| 12) Acetone | (1) | 3.787 | 58 | 131084 | 46.301 |
| 13) Methyl Iodide | (1) | 3.985 | 142 | 742586 | 5.265 |
| 14) Carbon Disulfide | (1) | 4.095 | 76 | 1431024 | 5.542 |
| 15) Allyl Chloride | (1) | 4.205 | 39 | 1094439 | 5.164 |
| 17) Methylene Chloride | (1) | 4.352 | 84 | 404895 | 6.178 |
| 18) t-Butyl Alcohol | (1) | 4.469 | 59 | 121638 | 53.194 |
| 19) Acrylonitrile | (1) | 4.660 | 53 | 1921471 | 148.761 |
| 20) trans-1,2-Dichloroethene | (1) | 4.733 | 96 | 450767 | 5.323 |
| 21) Methyl Tertiary Butyl Ether | (1) | 4.741 | 73 | 458095 | 5.394 |
| 22) 1,1-Dichloroethane | (1) | 5.291 | 63 | 1069463 | 5.151 |
| 24) di-Isopropyl Ether | (1) | 5.401 | 87 | 247526 | 5.671 |
| 25) Ethyl t-Butyl Ether | (1) | 5.929 | 59 | 1158620 | 5.498 |
| 26) cis-1,2-Dichloroethene | (1) | 6.119 | 96 | 422387 | 5.485 |
| 27) 2,2-Dichloropropane | (1) | 6.141 | 77 | 467815 | 5.391 |
| 28) 2-Butanone | (1) | 6.134 | 43 | 869979 | 44.953 |
| 29) Propionitrile | (1) | 6.207 | 54 | 566081 | 125.022 |
| 30) Methyl Acrylate | (1) | 6.281 | 55 | 1020346 | 32.723 |
| 31) Methacrylonitrile | (1) | 6.435 | 67 | 446996 | 39.260 |
| 32) Bromochloromethane | (1) | 6.464 | 128 | 152231 | 5.920 |
| 33) Tetrahydrofuran | (1) | 6.545 | 71 | 121796 | 47.849 |
| 34) Chloroform | (1) | 6.589 | 83 | 686095 | 5.825 |
| 35) 1,1,1-Trichloroethane | (1) | 6.889 | 97 | 467181 | 5.401 |
| 36) 1-Chlorobutane | (1) | 7.036 | 49 | 65895 | 6.755 |

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20s01.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 07:34 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 20-Mar-2009 07:50 Automation

Sample Name: LFBS55

Lab Sample ID: LFBS55

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|-------------------------------|--------------|--------|------|---------|----------------------|
| 37) Carbon Tetrachloride | (1) | 7.139 | 117 | 402332 | 5.728 |
| 38) 1,1-Dichloropropene | (1) | 7.124 | 75 | 560116 | 5.258 |
| 39) Benzene | (1) | 7.410 | 78 | 1567227 | 5.616 |
| 40) 1,2-Dichloroethane | (1) | 7.417 | 62 | 375054 | 5.744 |
| 41) t-Amyl Methyl Ether | (1) | 7.571 | 73 | 577100 | 5.410 |
| 42) *Fluorobenzene | (1) | 7.777 | 96 | 1237686 | 5.000 |
| 43) Trichloroethene | (1) | 8.231 | 95 | 410692 | 5.283 |
| 44) 1,2-Dichloropropane | (1) | 8.488 | 63 | 505134 | 5.202 |
| 45) Methyl Methacrylate | (1) | 8.627 | 69 | 95050 | 5.074 |
| 46) Dibromomethane | (1) | 8.613 | 93 | 140942 | 5.752 |
| 47) Bromodichloromethane | (1) | 8.796 | 83 | 395403 | 6.101 |
| 48) 2-Nitropropane | (1) | 9.038 | 46 | 231605 | 708.387 |
| 49) Chloroacetonitrile | (1) | 9.067 | 75 | 312087 | 281.131 |
| 50) cis-1,3-Dichloropropene | (1) | 9.287 | 75 | 477261 | 5.675 |
| 51) 4-Methyl-2-Pentanone | (1) | 9.441 | 58 | 411222 | 31.566 |
| 52) 1,1-Dichloropropanone | (1) | 9.463 | 83 | 243773 | 657.750 |
| 53) Toluene | (1) | 9.639 | 92 | 927521 | 5.482 |
| 55) trans-1,3-Dichloropropene | (1) | 9.845 | 75 | 331450 | 5.759 |
| 56) Ethyl Methacrylate | (1) | 9.940 | 69 | 201819 | 5.276 |
| 57) 1,1,2-Trichloroethane | (1) | 10.028 | 83 | 155995 | 6.310 |
| 58) Tetrachloroethene | (1) | 10.189 | 166 | 396017 | 5.560 |
| 59) 1,3-Dichloropropane | (1) | 10.197 | 76 | 300945 | 5.764 |
| 60) 2-Hexanone | (1) | 10.270 | 58 | 360267 | 30.560 |
| 61) Dibromochloromethane | (1) | 10.409 | 129 | 228223 | 5.965 |
| 62) 1,2-Dibromoethane | (1) | 10.527 | 107 | 159158 | 5.480 |
| 64) Chlorobenzene | (1) | 10.989 | 112 | 818111 | 5.545 |
| 65) 1,1,1,2-Tetrachloroethane | (1) | 11.055 | 131 | 275055 | 5.745 |
| 66) Ethylbenzene | (1) | 11.084 | 106 | 475545 | 5.118 |
| 67) m+p-Xylene | (1) | 11.187 | 106 | 1198143 | 10.863 |
| 68) o-Xylene | (1) | 11.539 | 106 | 541297 | 5.104 |
| 69) Styrene | (1) | 11.546 | 104 | 834999 | 5.683 |
| 71) Bromoform | (1) | 11.707 | 173 | 110630 | 6.035 |
| 72) Isopropylbenzene | (1) | 11.854 | 120 | 346259 | 5.164 |
| 74) 1,1,2,2-Tetrachloroethane | (1) | 12.089 | 83 | 185486 | 6.199 |

WAT09 8383

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/SH08359.i/09mar20a.b/sm20s01.d Instrument ID: SH08359.i
 Injection date and time: 20-MAR-2009 07:34 Analyst ID: amd00492

Method used: /chem/SH08359.i/09mar20a.b/S524RV4.m Sublist used: REV4+ACRO
 Calibration date and time: 18-MAR-2009 16:28
 Date, time and analyst ID of latest file update: 20-Mar-2009 07:50 Automation

Sample Name: LFBS55

Lab Sample ID: LFBS55

| Compounds | I.S. Ref. | RT | QIon | Area | Conc. (on column) |
|---------------------------------|--------------|--------|------|---------|----------------------|
| 75) Bromobenzene | (1) | 12.125 | 156 | 291582 | 5.400 |
| 76) 1,2,3-Trichloropropane | (1) | 12.133 | 110 | 35752 | 5.581 |
| 77) trans-1,4-Dichloro-2-Butene | (1) | 12.140 | 53 | 322323 | 30.502 |
| 78) n-Propylbenzene | (1) | 12.199 | 120 | 366531 | 5.484 |
| 79) 2-Chlorotoluene | (1) | 12.287 | 126 | 340021 | 5.623 |
| 80) 1,3,5-Trimethylbenzene | (1) | 12.345 | 105 | 1051812 | 5.368 |
| 81) 4-Chlorotoluene | (1) | 12.375 | 126 | 349476 | 5.632 |
| 82) tert-Butylbenzene | (1) | 12.624 | 134 | 246059 | 5.312 |
| 83) Pentachloroethane | (1) | 12.646 | 167 | 179382 | 5.829 |
| 84) 1,2,4-Trimethylbenzene | (1) | 12.661 | 105 | 1051719 | 5.436 |
| 85) sec-Butylbenzene | (1) | 12.800 | 134 | 258021 | 5.369 |
| 86) p-Isopropyltoluene | (1) | 12.910 | 119 | 1053428 | 5.813 |
| 87) 1,3-Dichlorobenzene | (1) | 12.903 | 146 | 566763 | 5.440 |
| 88) 1,4-Dichlorobenzene | (1) | 12.976 | 146 | 555170 | 5.498 |
| 89) n-Butylbenzene | (1) | 13.247 | 92 | 675060 | 5.634 |
| 91) 1,2-Dichlorobenzene | (1) | 13.284 | 146 | 432743 | 5.571 |
| 92) Hexachloroethane | (1) | 13.504 | 201 | 187679 | 5.395 |
| 93) 1,2-Dibromo-3-Chloropropane | (1) | 13.900 | 157 | 18235 | 5.422 |
| 94) Nitrobenzene | (1) | 14.061 | 77 | 151994 | 223.524 |
| 95) 1,2,4-Trichlorobenzene | (1) | 14.560 | 180 | 212271 | 4.986 |
| 96) Hexachlorobutadiene | (1) | 14.677 | 225 | 159559 | 4.720 |
| 97) Naphthalene | (1) | 14.758 | 128 | 239166 | 4.896 |
| 98) 1,2,3-Trichlorobenzene | (1) | 14.941 | 180 | 147806 | 4.780 |
| 73) \$4-Bromofluorobenzene | (1) | 11.986 | 174 | 266310 | 5.302 |
| 90) \$1,2-Dichlorobenzene-d4 | (1) | 13.269 | 152 | 242174 | 5.441 |

\$ = Compound is a surrogate standard.

Lancaster Laboratories
 Runlog for Shimadzu GC/MS System SH08359 **SH #01**

** Shift #1 Analyst: _____ ** Shift #2 Analyst: LCM ** Shift #3 Analyst: _____ *

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted
 S = Surrogate problem I = Internal Standard problem
 NU = Not used F = Further dilution required
 MR = Meets requirements IUO = Internal use only
 Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

* _____ *

* _____ *

* _____ *

* _____ *

Data Directory Path is - C:\CLASS5K\USER\DATA\09mar18b\

| FILE | SAMPLE | LLI# | DATE | TIME | BATCH | D.F. | NOTES |
|-----------|----------|--------------|-----------|-------|-----------|------|-------|
| SM18T02.D | 25ng BFB | BFB DEC18-08 | 18 MAR 09 | 15:42 | | | NU |
| SM18T03.D | 25ng BFB | BFB DEC18-08 | 18 MAR 09 | 15:54 | | | NU |
| SM18T04.D | 25ng BFB | BFB DEC18-08 | 18 MAR 09 | 16:04 | | | MR |
| SM18I01.D | VSTD025 | VSTD025 | 18 MAR 09 | 16:28 | | | MR |
| SM18I02.D | VSTD010 | VSTD010 | 18 MAR 09 | 16:55 | | | MR |
| SM18I03.D | VSTD005 | VSTD005 | 18 MAR 09 | 17:21 | | | MR |
| SM18I04.D | VSTD0.5 | VSTD0.5 | 18 MAR 09 | 17:48 | | | MR |
| SM18I05.D | VSTD0.5 | VSTD0.5 | 18 MAR 09 | 18:15 | | | NU |
| SM18B02.D | VBLKS53 | VBLKS53 | 18 MAR 09 | 18:41 | S090772AA | | MR |
| SM18S31.D | LFBS53 | LFBS53 | 18 MAR 09 | 19:08 | S090772AA | | NU |
| SM18S32.D | LFBS53 | LFBS53 | 18 MAR 09 | 19:52 | S090772AA | | MR |

Lancaster Laboratories
 Runlog for Shimadzu GC/MS System SH08359 **SH #01**

** Shift #1 Analyst: AMD/RVN** Shift #2 Analyst: LCM ** Shift #3 Analyst:

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted
 S = Surrogate problem I = Internal Standard problem
 NU = Not used F = Further dilution required
 MR = Meets requirements IUO = Internal use only
 Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\CLASS5K\USER\DATA\09mar19A\

| FILE | SAMPLE | LLI# | DATE | TIME | BATCH | D.F. | NOTES |
|-----------|----------|--------------|-----------|-------|-----------|------|-------|
| SM19T01.D | 25ng BFB | BFB DEC18-08 | 19 MAR 09 | 15:56 | | | MR |
| SM19C01.D | VSTD010 | VSTD010 | 19 MAR 09 | 16:20 | | | MR |
| SM19BA1.D | VBLKS54 | VBLKS54 | 19 MAR 09 | 16:46 | S090781AA | | NU |
| SM19B01.D | VBLKS54 | VBLKS54 | 19 MAR 09 | 17:13 | S090781AA | | MR |
| SM19S01.D | LFBS54 | LFBS54 | 19 MAR 09 | 17:40 | S090781AA | | MR |
| SM19S02.D | 110TB | 5624009 | 19 MAR 09 | 18:20 | S090781AA | | MR |
| SM19S03.D | 110FD | 5624008 | 19 MAR 09 | 18:47 | S090781AA | | MR |
| SM19S04.D | 110EF | 5624003 | 19 MAR 09 | 19:14 | S090781AA | | MR |
| SM19S05.D | 110BC | 5624004 | 19 MAR 09 | 19:40 | S090781AA | | MR |
| SM19S06.D | 110IN | 5624005 | 19 MAR 09 | 20:07 | S090781AA | | MR |
| SM19S07.D | 110INMS | 5624006 | 19 MAR 09 | 20:34 | S090781AA | | MR |
| SM19S08.D | 110INMSD | 5624007 | 19 MAR 09 | 21:00 | S090781AA | | MR |
| SM19S09.D | LCTT3 | 5621719 | 19 MAR 09 | 21:44 | S090781AA | 500 | MR |
| SM19S10.D | LIC03 | 5619069 | 19 MAR 09 | 22:10 | S090781AA | 10 | MR |
| SM19S11.D | LIT03 | 5619070 | 19 MAR 09 | 22:37 | S090781AA | | MR |
| SM19S12.D | 1WATA | 5621915 | 19 MAR 09 | 23:04 | S090781BA | | MR |
| SM19S13.D | HWATA | 5621916 | 19 MAR 09 | 23:30 | S090781BA | | MR |
| SM19S14.D | 15WAT | 5621917 | 19 MAR 09 | 23:57 | S090781BA | | MR |
| SM19S15.D | 16WAT | 5621918 | 20 MAR 09 | 0:24 | S090781BA | | MR |
| SM19S16.D | BREWA | 5621919 | 20 MAR 09 | 0:51 | S090781BA | | F |
| SM19S17.D | RES02 | 5621920 | 20 MAR 09 | 1:17 | S090781BA | | MR |
| SM19S18.D | TWATA | 5621921 | 20 MAR 09 | 1:44 | S090781BA | | MR |
| SM19S19.D | WW-EF | 5622363 | 20 MAR 09 | 2:11 | S090781AA | | F |
| SM19S20.D | WW-IN | 5622364 | 20 MAR 09 | 2:37 | S090781AA | 100 | F |
| SM19S21.D | WW-INDL | 5622364 | 20 MAR 09 | 3:04 | S090781AA | 1000 | MR |

Lancaster Laboratories
Runlog for Shimadzu GC/MS System SH08359 **SH #01**

** Shift #1 Analyst: _____ ** Shift #2 Analyst: LCM ** Shift #3 Analyst: _____ *

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted
 S = Surrogate problem I = Internal Standard problem
 NU = Not used F = Further dilution required
 MR = Meets requirements IUO = Internal use only
 Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\CLASS5K\USER\DATA\09mar20a\

| FILE | SAMPLE | LLI# | DATE | TIME | BATCH | D.F. | NOTES |
|-----------|----------|--------------|-----------|-------|-----------|------|-------|
| SM20T01.D | 25ng BFB | BFB DEC18-08 | 20 MAR 09 | 5:55 | | | MR |
| SM20C01.D | VSTD010 | VSTD010 | 20 MAR 09 | 6:11 | | | MR |
| SM20BA1.D | VLKS55 | VLKS55 | 20 MAR 09 | 6:37 | S090791AA | | NU |
| SM20B01.D | VLKS55 | VLKS55 | 20 MAR 09 | 7:07 | S090791AA | | MR |
| SM20S01.D | LFBS55 | LFBS55 | 20 MAR 09 | 7:34 | S090791AA | | MR |
| SM20S02.D | BLK | BLK | 20 MAR 09 | 8:01 | S090791AA | | NU |
| SM20S03.D | 1-417 | 5618247 | 20 MAR 09 | 8:27 | S090791AA | 10 | MR |
| SM20S04.D | BREWADL | 5621919 | 20 MAR 09 | 8:54 | S090791AA | 5 | MR |
| SM20S05.D | WW-EFDL | 5622363 | 20 MAR 09 | 9:21 | S090791AA | 5 | MR |
| SM20S06.D | BD437 | 5618357 | 20 MAR 09 | 10:35 | S090791AA | | MR |
| SM20S07.D | BD406 | 5618358 | 20 MAR 09 | 11:02 | S090791AA | | MR |
| SM20S08.D | BSBAS | 5625070 | 20 MAR 09 | 11:28 | S090791AA | 25 | MR |
| SM20S09.D | SRBAS | 5625204 | 20 MAR 09 | 11:55 | S090791AA | 25 | MR |
| SM20S10.D | TO096 | 5626523 | 20 MAR 09 | 12:22 | S090791AA | 10 | MR |
| SM20S11.D | TM1BF | 5627158 | 20 MAR 09 | 12:49 | S090791AA | | F |
| SM20S12.D | TM1BFDL | 5627158 | 20 MAR 09 | 13:15 | S090791AA | 10 | MR |
| SM20S13.D | TM1ML | 5627159 | 20 MAR 09 | 13:42 | S090791AA | | MR |
| SM20S14.D | TM1AF | 5627160 | 20 MAR 09 | 14:09 | S090791AA | | MR |
| SM20S15.D | TM2BF | 5627161 | 20 MAR 09 | 14:35 | S090791AA | | F |
| SM20S16.D | TM2BFDL | 5627161 | 20 MAR 09 | 15:02 | S090791AA | 10 | MR |
| SM20S17.D | TM2ML | 5627162 | 20 MAR 09 | 15:29 | S090791AA | | MR |
| SM20S18.D | TM2AF | 5627163 | 20 MAR 09 | 15:55 | S090791AA | | MR |
| SM20S19.D | TMWAT | 5627164 | 20 MAR 09 | 16:22 | S090791AA | | MR |
| SM20S20.D | TMJOH | 5627165 | 20 MAR 09 | 16:48 | S090791AA | | MR |
| SM20S21.D | BLANK | BLANK | 20 MAR 09 | 17:15 | S090791AA | | NU |



CompuChem

A Division Of

Liberty Analytical Corp.
3/26/2009

JANET FRAZIER
DRAPER
2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 0903085

Attn.: JANET FRAZIER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

CompuChem

a division of Liberty Analytical Corporation

Attachment

| |
|--------------------------------|
| TOTAL NUMBER OF PAGES _____ |
|--------------------------------|

CompuChem, a division of Liberty Analytical

Client: DRAPER

Work: 0903085

Project: WATAUGA COUNTY LANDFILL 6520-39

Sdg: 0903085

| Lab ID | Client ID | Matrix | Date Sampled | Date Received |
|---------------|------------------|---------------|---------------------|----------------------|
| 0903085-01 | S-1 | Water | 03/12/2009 09:15 | 03/13/2009 09:45 |
| 0903085-02 | S-2 | Water | 03/12/2009 09:25 | 03/13/2009 09:45 |
| 0903085-03 | S-3 | Water | 03/12/2009 09:00 | 03/13/2009 09:45 |
| 0903085-04 | S-4 | Water | 03/12/2009 10:00 | 03/13/2009 09:45 |
| 0903085-05 | S-5 | Water | 03/12/2009 09:40 | 03/13/2009 09:45 |
| 0903085-06 | S-6 | Water | 03/12/2009 10:20 | 03/13/2009 09:45 |
| 0903085-07 | TRIP BLANK | Water | 03/12/2009 00:00 | 03/13/2009 09:45 |
| 0903085-08 | VHBLKXV | Water | 03/13/2009 00:00 | 03/13/2009 09:45 |

I. SAMPLE DATA SUMMARY PACKAGE

DOCUMENT OLM04.3

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

- A. SDG Narrative
- B. Tabulated target compound results (Form I)
Tentatively identified compounds (Form I, TIC) (VOA & SV only)
In order by fraction (VOA, SV, PEST) and by sample within each fraction.
- C. System monitoring compound results (Form II - VOA only)
Surrogate spike analysis results (Form II - SV & PEST only)
By fraction (VOA, SV, PEST), matrix (Water or Soil), and by concentration (Low or Medium)
- D. Matrix Spike / Matrix Spike Duplicate results (Form III)
By fraction (VOA, SV, PEST)
- E. Blank data (Form IV)
Tabulated blank results (Form I)
Tentatively identified compounds (Form I, TIC)
By fraction (VOA, SV, PEST)
- F. Internal standard area response and retention time data (Form VIII)
By fraction (VOA & SV only)

LAB CODE : LIBRTY

CONTRACT # : OLM04-REVS

CASE # :

SDG # : 0903085

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation

501 Madison Avenue

Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # 0903085

PROTOCOL: OLM4.3

SAMPLE IDENTIFICATIONS: S-1, S-2, S-3, S-4, S-5, S6 AND TRIP BLANK

The 7 aqueous samples listed above were received intact, refrigerated at 0.8°C, with proper documentation, in sealed shipping containers, on March 13, 2009. Proper documentation was received except for the information that is provided in the traffic reports. The samples were scheduled for the requested analyses of the volatile fraction. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.3, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for SDG 0903085 are included in the sample data sections.

Analysis holding time requirements were met for the samples. The pH values are equal to 1. There were no volatile Project/Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in any of the samples. No Tentatively Identified Compounds (TICs) were found in the samples. The system monitoring compounds (SMCs) met recovery criteria in the analyses of the samples. All of the internal standards met response and retention time criteria.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. Manual integrations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. The associated method blanks met all quality control criteria. The associated Laboratory Control Samples (LCS/LCSD) met overall accuracy criteria. No matrix spike/matrix spike duplicate (MS/MSD) samples were requested for the volatile fraction with this SDG.

I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.


Patricia A Murphy
Senior Scientist
March 26, 2009

ALKANE NARRATIVE REPORT
Report date : 03/26/2009
SDG: 0903085

GC and GC/MS Column and Trap Specifications Table

SDG #: 0903085

COLUMNS*

| Columns Utilized | Brand Name | Coating Material | ID (mm) | Film Thickness (um) | Length (m) |
|---------------------------------------|------------|------------------------|---------|---------------------|------------|
| GC Laboratory | | | | | |
| | Restek | RTX-5 | 0.53 | 1.0 | 30 |
| | Restek | RTX-SMS | 0.53 | 1.0 | 30 |
| √ | Restek | clpest | 0.32 | 0.5 | 30 |
| √ | Restek | clpest2 | 0.32 | 0.42 | 30 |
| | J&W | DB-210 | 0.53 | 1.0 | 30 |
| | J&W | GS-GASPRO | 0.32 | N/A | 30 |
| GC Volatiles Laboratory | | | | | |
| | Restek | RTX-Volatiles | 0.53 | 2.0 | 30 |
| GC/MS Volatiles Laboratory | | | | | |
| | Restek | RTX-VMS | 0.18 | 1.0 | 20 |
| √ | Supelco | SPB-624 | 0.32 | 1.8 | 60 |
| | Supelco | SPB-624 | 0.53 | 3.0 | 75 |
| | Phenomonex | ZB-624 | 0.32 | 1.8 | 60 |
| GC/MS Semivolatiles Laboratory | | | | | |
| √ | Restek | RTX-5MS | 0.32 | 0.25 | 30 |
| | Phenomonex | ZB-5MS | 0.32 | 0.25 | 30 |
| HPLC Laboratory | | | | | |
| | Supelco | Supelcosil LC-PAH | 4.6 | 5.0 | 15 cm |
| | Supelco | Discovery RP Amide C16 | 4.6 | 5.0 | 25 cm |
| | Restek | Pinnacle Cyano | 4.6 | 5.0 | 25 cm |
| | Restek | Allure C18 | 4.6 | 5.0 | 25 cm |

TRAPS*

| GC and GC/MS Volatiles Laboratory | | | | | |
|--|------------------------|--|---|--|--|
| | Supelco J (BETXTRAP™) | | * 7.7 cm Carbopack C | | |
| | | | * 1.2 cm Carbopack B | | |
| √ | Supelco K (Vocarb3000) | | * 10 cm of Carbopack B (Graphitized Carbons) | | |
| | | | * 6 cm of Carboxen 1000 (Carbon molecular sieves) | | |
| | | | * 1 cm of Carboxen 1001 (Carbon molecular sieves) | | |

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Revision 6 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

- M** - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- H** - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- MH** - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- L** - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- ML** - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

- M1** - The compound was not found by the automatic integration routine.
- M2** - The compound was incorrectly integrated by the automatic integration routine.
- M3** - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

- U :** This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.
- J :** This flag indicates an estimated value. The flag is used as detailed below:
1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,
 2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and
 3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.
- N :** This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches $\geq 85\%$ in the SOM01.2 SOW document), the N flag is not used.
- P :** In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P. For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.
- C :** This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

- B :** This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.
- E :** This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.
- D :** If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.
- NOTE 1:** The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.
- NOTE 2:** Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.
- A:** This flag indicates that a TIC is a suspected aldol-condensation product.
- S:** In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.
- X/Y/Z :** Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

Revision 11 (08-17-2007)

B. Form I and Form I - TIC

- Organic Analysis Data Sheet (OADS) and
Tentatively Identified Compounds (TICs)
- All samples by fraction (VOA, SV, PEST)
 - alphanumeric order within each fraction

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
|-----|
| S-1 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-01

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-01R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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|-----|
| S-2 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-02

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0291

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
|---------|----------|---|
|---------|----------|---|

| | | | |
|----------|--------------------------|----|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 6 | J |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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|-----|
| S-2 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-02

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0291

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-3 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-03

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0391

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
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1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-4 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-04

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-04R359

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 Matrix: (soil/water) WATER Lab Sample ID: 0903085-05
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 0903085-05R259
 Level: (low/med) LOW Date Received: 03/13/09
 % Moisture: not dec. _____ Date Analyzed: 03/20/09
 GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | UG/L | Q |
|----------|--------------------------|------|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-5 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-05

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-05R259

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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| S-6 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-06R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|----|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-6 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-06R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
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1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-07

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-07R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKXR

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903052-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903052-06R259

Level: (low/med) LOW

Date Received: 03/10/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L | Q |
|----------|--------------------------|---|------|---|
| 75-71-8 | Dichlorodifluoromethane | | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKXR

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903052-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903052-06R259

Level: (low/med) LOW

Date Received: 03/10/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|--------|
| VHDLCS |
|--------|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9032006-BS1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9032006-BS159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | | |
|----------|--------------------------|--|----|
| 75-71-8 | Dichlorodifluoromethane | | 56 |
| 75-01-4 | Vinyl Chloride | | 56 |
| 75-00-3 | Chloroethane | | 58 |
| 75-35-4 | 1,1-Dichloroethene | | 54 |
| 75-09-2 | Methylene Chloride | | 58 |
| 156-60-5 | trans-1,2-Dichloroethene | | 61 |
| 75-34-3 | 1,1-Dichloroethane | | 63 |
| 156-59-2 | cis-1,2-Dichloroethene | | 61 |
| 71-55-6 | 1,1,1-Trichloroethane | | 54 |
| 71-43-2 | Benzene | | 58 |
| 107-06-2 | 1,2-Dichloroethane | | 62 |
| 79-01-6 | Trichloroethene | | 51 |
| 78-87-5 | 1,2-Dichloropropane | | 55 |
| 127-18-4 | Tetrachloroethene | | 55 |
| 108-90-7 | Chlorobenzene | | 53 |
| 106-46-7 | 1,4-Dichlorobenzene | | 53 |

C. Form II

System Monitoring Compound summary (VOA)
and Surrogate spike analysis (SV & PEST)

- By fraction (VOA, SV, PEST) -
- By matrix (water, soil) -
- By level (low, medium) -

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

| | EPA SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|----|-------------------|-----------------|-----------------|-----------------|-------|------------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | VBLKGW | 96 | 90 | 96 | | 0 |
| 02 | S-2 | 92 | 86 | 100 | | 0 |
| 03 | S-3 | 94 | 86 | 100 | | 0 |
| 04 | VBLKHC | 106 | 86 | 106 | | 0 |
| 05 | VHCLCS | 102 | 102 | 106 | | 0 |
| 06 | VHCLCSD | 102 | 100 | 110 | | 0 |
| 07 | S-1 | 104 | 90 | 110 | | 0 |
| 08 | S-6 | 106 | 94 | 114 | | 0 |
| 09 | VBLKHD | 104 | 92 | 92 | | 0 |
| 10 | VHDLCS | 104 | 102 | 96 | | 0 |
| 11 | VHDLCS | 102 | 102 | 96 | | 0 |
| 12 | TRIP BLANK | 108 | 98 | 94 | | 0 |
| 13 | S-5 | 104 | 96 | 102 | | 0 |
| 14 | S-4 | 102 | 94 | 102 | | 0 |
| 15 | VHBLKXR | 110 | 98 | 96 | | 0 |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
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| 29 | | | | | | |
| 30 | | | | | | |

QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values
 * Values outside of contract required QC limits

D. Form III

Matrix Spike/Matrix Spike Duplicate results

- By fraction (VOA, SV, PEST) -
 - By level (low, medium) -

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix Spike - EPA Sample No.: VHCLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Dichlorodifluoromethane | 50 | | 43 | 86 | 50-150 |
| Vinyl Chloride | 50 | | 45 | 90 | 50-150 |
| Chloroethane | 50 | | 47 | 94 | 50-150 |
| 1,1-Dichloroethene | 50 | | 47 | 94 | 50-150 |
| Methylene Chloride | 50 | | 47 | 94 | 50-150 |
| trans-1,2-Dichloroethen | 50 | | 48 | 96 | 50-150 |
| 1,1-Dichloroethane | 50 | | 47 | 94 | 50-150 |
| cis-1,2-Dichloroethene | 50 | | 46 | 92 | 50-150 |
| 1,1,1-Trichloroethane | 50 | | 54 | 108 | 50-150 |
| 1,2-Dichloroethane | 50 | | 50 | 100 | 50-150 |
| 1,2-Dichloroethane | 50 | | 50 | 100 | 50-150 |
| 1,2-Dichloroethane | 50 | | 50 | 100 | 50-150 |
| 1,2-Dichloropropane | 50 | | 53 | 106 | 50-150 |
| Tetrachloroethene | 50 | | 51 | 102 | 50-150 |
| Chlorobenzene | 50 | | 50 | 100 | 50-150 |
| 1,4-Dichlorobenzene | 50 | | 49 | 98 | 50-150 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix Spike - EPA Sample No.: VHCLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 50 | 48 | 96 | 11 | 40 | 50-150 |
| Vinyl Chloride | 50 | 50 | 100 | 11 | 40 | 50-150 |
| Chloroethane | 50 | 51 | 102 | 8 | 40 | 50-150 |
| 1,1-Dichloroethene | 50 | 53 | 106 | 12 | 40 | 50-150 |
| Methylene Chloride | 50 | 50 | 100 | 6 | 40 | 50-150 |
| trans-1,2-Dichloroethen | 50 | 52 | 104 | 8 | 40 | 50-150 |
| 1,1-Dichloroethane | 50 | 53 | 106 | 12 | 40 | 50-150 |
| cis-1,2-Dichloroethene | 50 | 51 | 102 | 10 | 40 | 50-150 |
| 1,1,1-Trichloroethane | 50 | 60 | 120 | 11 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 56 | 112 | 11 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 56 | 112 | 11 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 56 | 112 | 11 | 40 | 50-150 |
| 1,2-Dichloropropane | 50 | 56 | 112 | 6 | 40 | 50-150 |
| Tetrachloroethene | 50 | 52 | 104 | 2 | 40 | 50-150 |
| Chlorobenzene | 50 | 53 | 106 | 6 | 40 | 50-150 |
| 1,4-Dichlorobenzene | 50 | 50 | 100 | 2 | 40 | 50-150 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 0 out of 32 outside limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix Spike - EPA Sample No.: VHDLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Dichlorodifluoromethane | 50 | | 56 | 112 | 50-150 |
| Vinyl Chloride | 50 | | 56 | 112 | 50-150 |
| Chloroethane | 50 | | 58 | 116 | 50-150 |
| 1,1-Dichloroethene | 50 | | 54 | 108 | 50-150 |
| Methylene Chloride | 50 | | 58 | 116 | 50-150 |
| trans-1,2-Dichloroethen | 50 | | 61 | 122 | 50-150 |
| 1,1-Dichloroethane | 50 | | 63 | 126 | 50-150 |
| cis-1,2-Dichloroethene | 50 | | 61 | 122 | 50-150 |
| 1,1,1-Trichloroethane | 50 | | 54 | 108 | 50-150 |
| 1,2-Dichloroethane | 50 | | 62 | 124 | 50-150 |
| 1,2-Dichloroethane | 50 | | 62 | 124 | 50-150 |
| 1,2-Dichloroethane | 50 | | 62 | 124 | 50-150 |
| 1,2-Dichloropropane | 50 | | 55 | 110 | 50-150 |
| Tetrachloroethene | 50 | | 55 | 110 | 50-150 |
| Chlorobenzene | 50 | | 53 | 106 | 50-150 |
| 1,4-Dichlorobenzene | 50 | | 53 | 106 | 50-150 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

E. Form IV

Method Blank Results

Form IV, Form I, and Form I - TIC

Method blank summary, OADS, and TICs

- All blanks by fraction (VOA, SV, PEST)

- In chronological order, by analysis date,
by instrument (VOA, SV)

- In chronological order, by analysis date (PEST)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGW

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9031712-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9031712-BLK191_W

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|----|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

FORM I VOA-1

OLM04.2

1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGW

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9031712-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9031712-BLK191

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
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| 30. | | | | |

1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKHC

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9031922-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9031922-BLK159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
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| 29. | | | | |
| 30. | | | | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKHD

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9032006-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9032006-BLK159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | <u>UG/L</u> | Q |
|----------|--------------------------|---|-------------|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U | |
| 75-01-4 | Vinyl Chloride | 10 | U | |
| 75-00-3 | Chloroethane | 10 | U | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | |
| 75-09-2 | Methylene Chloride | 10 | U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U | |
| 71-43-2 | Benzene | 10 | U | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | |
| 79-01-6 | Trichloroethene | 10 | U | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | |
| 127-18-4 | Tetrachloroethene | 10 | U | |
| 108-90-7 | Chlorobenzene | 10 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKHD

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9032006-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9032006-BLK159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
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| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
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| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

F. Form VIII

Internal standard area and retention time data

- By fraction (VOA and SV only)
- In chronological order, by instrument

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 EPA Sample No. (VSTD050##): VSTD050GW Date Analyzed: 03/17/09
 Lab File ID (Standard): 9C17004-CAL391 Time Analyzed: 1430
 Instrument ID: 5975HPMS91 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID:0.32 (mm)

| | IS1 (BCM) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (CBZ) AREA # | RT # |
|-------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 90803 | 9.25 | 583569 | 10.23 | 573027 | 12.99 |
| UPPER LIMIT | 181606 | 9.75 | 1167138 | 10.73 | 1146054 | 13.49 |
| LOWER LIMIT | 45401 | 8.75 | 291785 | 9.73 | 286513 | 12.49 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKGW | 87499 | 9.25 | 550059 | 10.23 | 529382 | 12.99 |
| 02 S-2 | 84155 | 9.25 | 526812 | 10.23 | 525882 | 12.99 |
| 03 S-3 | 84117 | 9.25 | 525449 | 10.23 | 519457 | 12.99 |
| 04 | | | | | | |
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IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 EPA Sample No. (VSTD050##): VSTD050HC Date Analyzed: 03/19/09
 Lab File ID (Standard): 9C19009-CAL359 Time Analyzed: 2332
 Instrument ID: 5972HP59 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID:0.32 (mm)

| | IS1 (BCM) | RT # | IS2 (DFB) | RT # | IS3 (CBZ) | RT # |
|-------------|-----------|-------|-----------|-------|-----------|-------|
| ===== | AREA # | ===== | AREA # | ===== | AREA # | ===== |
| 12 HOUR STD | 56700 | 9.09 | 338210 | 9.99 | 311749 | 12.55 |
| UPPER LIMIT | 113400 | 9.59 | 676420 | 10.49 | 623498 | 13.05 |
| LOWER LIMIT | 28350 | 8.59 | 169105 | 9.49 | 155875 | 12.05 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKHC | 58938 | 9.08 | 342822 | 10.00 | 289790 | 12.55 |
| 02 VHCLCS | 57232 | 9.08 | 318659 | 9.99 | 296967 | 12.55 |
| 03 VHCLCSD | 56441 | 9.09 | 316151 | 9.99 | 304720 | 12.56 |
| 04 S-1 | 52943 | 9.09 | 287869 | 9.99 | 252490 | 12.55 |
| 05 S-6 | 48061 | 9.09 | 260259 | 10.00 | 240535 | 12.55 |
| 06 | | | | | | |
| 07 | | | | | | |
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IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 EPA Sample No. (VSTD050##): VSTD050HD Date Analyzed: 03/20/09
 Lab File ID (Standard): 9C20001-CCV159 Time Analyzed: 0956
 Instrument ID: 5972HP59 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID:0.32(mm)

| | IS1 (BCM) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (CBZ) AREA # | RT # |
|---------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 64513 | 9.09 | 317104 | 9.99 | 300936 | 12.55 |
| UPPER LIMIT | 129026 | 9.59 | 634208 | 10.49 | 601872 | 13.05 |
| LOWER LIMIT | 32257 | 8.59 | 158552 | 9.49 | 150468 | 12.05 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKHD | 54063 | 9.08 | 288275 | 9.99 | 256345 | 12.54 |
| 02 VHDLCS | 53068 | 9.08 | 300327 | 9.98 | 272433 | 12.55 |
| 03 VHDLCSD | 47312 | 9.09 | 265821 | 9.99 | 263511 | 12.55 |
| 04 TRIP BLANK | 45195 | 9.09 | 259588 | 9.99 | 229576 | 12.55 |
| 05 S-5 | 43277 | 9.09 | 241222 | 10.00 | 230004 | 12.55 |
| 06 S-4 | 41590 | 9.08 | 242383 | 9.99 | 223724 | 12.55 |
| 07 VHBLKXR | 42455 | 9.08 | 241641 | 9.99 | 215084 | 12.55 |
| 08 | | | | | | |
| 09 | | | | | | |
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IS1 (BCM) = Bromochloromethane
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AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

DOCUMENT OLM04.3

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, and matrix spike duplicates. The sample data package consists of the following:

- A. SDG Narrative
- B. Traffic Reports
- C. Volatile Data
- D. Semivolatile Data
- E. Pesticide / Aroclor Data

LAB CODE : LIBRTY

CONTRACT # : OLM04-REVS

CASE # :

SDG # : 0903085

A. SDG Narrative



CompuChem

A division of Liberty Analytical Corporation

501 Madison Avenue

Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # 0903085

PROTOCOL: OLM4.3

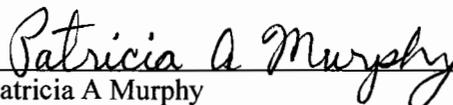
SAMPLE IDENTIFICATIONS: S-1, S-2, S-3, S-4, S-5, S6 AND TRIP BLANK

The 7 aqueous samples listed above were received intact, refrigerated at 0.8°C, with proper documentation, in sealed shipping containers, on March 13, 2009. Proper documentation was received except for the information that is provided in the traffic reports. The samples were scheduled for the requested analyses of the volatile fraction. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.3, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for SDG 0903085 are included in the sample data sections.

Analysis holding time requirements were met for the samples. The pH values are equal to 1. There were no volatile Project/Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in any of the samples. No Tentatively Identified Compounds (TICs) were found in the samples. The system monitoring compounds (SMCs) met recovery criteria in the analyses of the samples. All of the internal standards met response and retention time criteria.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. Manual integrations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. The associated method blanks met all quality control criteria. The associated Laboratory Control Samples (LCS/LCSD) met overall accuracy criteria. No matrix spike/matrix spike duplicate (MS/MSD) samples were requested for the volatile fraction with this SDG.

I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Patricia A Murphy

Senior Scientist

March 26, 2009

ALKANE NARRATIVE REPORT
Report date : 03/26/2009
SDG: 0903085

GC and GC/MS Column and Trap Specifications Table

SDG #: 0903085

COLUMNS*

| Columns Utilized | Brand Name | Coating Material | ID (mm) | Film Thickness (um) | Length (m) |
|---------------------------------------|------------|------------------------|---------|---------------------|------------|
| GC Laboratory | | | | | |
| | Restek | RTX-5 | 0.53 | 1.0 | 30 |
| | Restek | RTX-SMS | 0.53 | 1.0 | 30 |
| √ | Restek | clpest | 0.32 | 0.5 | 30 |
| √ | Restek | clpest2 | 0.32 | 0.42 | 30 |
| | J&W | DB-210 | 0.53 | 1.0 | 30 |
| | J&W | GS-GASPRO | 0.32 | N/A | 30 |
| GC Volatiles Laboratory | | | | | |
| | Restek | RTX-Volatiles | 0.53 | 2.0 | 30 |
| GC/MS Volatiles Laboratory | | | | | |
| | Restek | RTX-VMS | 0.18 | 1.0 | 20 |
| √ | Supelco | SPB-624 | 0.32 | 1.8 | 60 |
| | Supelco | SPB-624 | 0.53 | 3.0 | 75 |
| | Phenomonex | ZB-624 | 0.32 | 1.8 | 60 |
| GC/MS Semivolatiles Laboratory | | | | | |
| √ | Restek | RTX-5MS | 0.32 | 0.25 | 30 |
| | Phenomonex | ZB-5MS | 0.32 | 0.25 | 30 |
| HPLC Laboratory | | | | | |
| | Supelco | Supelcosil LC-PAH | 4.6 | 5.0 | 15 cm |
| | Supelco | Discovery RP Amide C16 | 4.6 | 5.0 | 25 cm |
| | Restek | Pinnacle Cyano | 4.6 | 5.0 | 25 cm |
| | Restek | Allure C18 | 4.6 | 5.0 | 25 cm |

TRAPS*

| GC and GC/MS Volatiles Laboratory | | | | | |
|--|------------------------|--|---|--|--|
| | Supelco J (BETXTRAP™) | | * 7.7 cm Carbopack C | | |
| | | | * 1.2 cm Carbopack B | | |
| √ | Supelco K (Vocarb3000) | | * 10 cm of Carbopack B (Graphitized Carbons) | | |
| | | | * 6 cm of Carboxen 1000 (Carbon molecular sieves) | | |
| | | | * 1 cm of Carboxen 1001 (Carbon molecular sieves) | | |

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

- M** - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- H** - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- MH** - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.
- L** - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.
- ML** - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

- M1** - The compound was not found by the automatic integration routine.
- M2** - The compound was incorrectly integrated by the automatic integration routine.
- M3** - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

- U :** This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.
- J :** This flag indicates an estimated value. The flag is used as detailed below:
1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,
 2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and
 3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.
- N :** This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches $\geq 85\%$ in the SOM01.2 SOW document), the N flag is not used.
- P :** In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P. For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.
- C :** This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

- B :** This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.
- E :** This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.
- D :** If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.
- NOTE 1:** The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.
- NOTE 2:** Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.
- A:** This flag indicates that a TIC is a suspected aldol-condensation product.
- S:** In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.
- X/Y/Z :** Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

Revision 11 (08-17-2007)

B. Traffic Reports

The contractor shall include a copy of the Traffic Reports (TRs) and Chain-of-Custodies (CoCs) for all of the samples in the SDG. The TRs shall be arranged in increasing EPA sample number order, considering both letters and numbers.

In any instance where samples from more than one multi-sample TR are in the same data package, the Contractor shall submit a copy of the SDG cover sheet with white copies of the TRs.

CHAIN OF CUSTODY RECORD

Laboratory: CompuChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (800) 833 5097 Fax (919) 379-4050 Attn: Cathy Dover

Client: Watauga County, NC
 Address: 842 West King Street/Courthouse, Suite 1
 Boone, NC 28607
 Phone: (704) 265-8003
 Fax: 0

Consultant: Draper Aden Associates
 Janet C. Frazier
 2206 South Main Street
 Blacksburg, Virginia 24060
 (540) 552-0444
 (540) 552-0291

Project Specific (PS) or Batch (B) QC? PS B
 Sample Collection for Project Complete? (See Note 1) Yes No
 Carrier: UPS
 Tracking Number: 5171088823893

Box 1: Matrix
 SW Surface Water T Trip Blank
 GW Groundwater E Equipment Blank
 L Leachate P Product
 S Soil O Other

Box 2: Preservative
 A HCl
 B HNO₃
 C H₂SO₄
 D Na₂S₂O₃

Box 3: Filtered/Unfiltered
 F Filtered
 U Unfiltered

Box 4: Sample Type
 G Grab
 C Composite

Box 4 - Sample Type
 Box 3 - Filtered/Unfiltered
 Required pH of Sample
 Box 2 - Preservative
 Box 5 - Sample Container Type

| Sample ID | Date: 2009 | Time | Box 1: Matrix | Number of Bottles | CLP VOLATILES OLMO 4.3 | Box 3: Filtered/Unfiltered | Box 4: Sample Type | Invoice |
|-----------|------------|------|---------------|-------------------|------------------------|----------------------------|--------------------|--|
| S-1 | 03/12 | 0915 | SW | 3 | X | U | G | Copy to Consultant: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bill: <input checked="" type="checkbox"/> Client <input type="checkbox"/> Consultant Preserved and shipped on ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| S-2 | 03/12 | 0935 | SW | 3 | X | U | G | |
| S-3 | 03/12 | 0900 | SW | 3 | X | U | G | |
| S-4 | 03/12 | 1000 | SW | 3 | X | U | G | |
| S-5 | 03/12 | 0940 | SW | 3 | X | U | G | |
| S-6 | 03/12 | 1020 | SW | 3 | X | U | G | |

Client's Special Instructions: Level 4 deliverables w/ EDD & PDF.

Received by lab in Good Condition Yes No Custody Seal Intact: Yes No Temperature upon arrival: 08°C Received on ice: Yes No

Sampler Name: Chris Branscome
 Signature: [Signature]
 Date: 3/11/09
 Time: 0700

#1 Relinquished by (Signature): Chris Branscome
 Date: 03/12/09
 Time: 1700

Company Name: Draper Aden Associates

Sampler Name: Dale Slaughter
 Signature: [Signature]
 Date: 3/11/09
 Time: 0700

#2 Received by (Signature): Dale Slaughter
 Date: 3/12/09
 Time: 0945

Company Name: CompuChem

Sample Storage Time Requested: 30 DYS ORG/6 MTHS INORG

21

2/24/11
 [Signature]

Watauga County Landfill
March 2009 Semiannual Assessment Monitoring Event
DAA JN: 6520-39

ANALYTICAL METHODS: CLP OLMO 4.3
TYPE METHOD: CLP
CLASS: VOLATILE

Run for Surface Locations: S-1, S-2, S-3, S-4, S-5 & S-6:

| <u>No.</u> | <u>PARAMETER</u> | <u>CAS RN</u> |
|------------|--|---------------|
| 1 | Benzene | 71-43-2 |
| 2 | Chloroethane (ethyl chloride) | 75-00-3 |
| 3 | Dichlorodifluoromethane | 75-71-8 |
| 4 | 1,1-dichloroethane | 75-34-3 |
| 5 | 1,1-dichloroethylene (vinylidene chloride) | 75-35-4 |
| 6 | cis-1,2-dichloroethylene | 156-59-2 |
| 7 | trans-1,2-dichloroethylene | 156-60-5 |
| 8 | Tetrachloroethylene | 127-18-4 |
| 9 | Trichloroethylene | 79-01-6 |
| 10 | Methylene chloride | 75-09-2 |
| 11 | Vinyl chloride | 75-01-4 |
| 12 | 1,1,1-trichloroethane | 71-55-6 |
| 13 | Chlorobenzene | 108-90-7 |
| 14 | 1,4 - dichlorobenzene | 106-46-7 |
| 15 | 1,2 - dichloroethane | 107-06-2 |
| 16 | 1,2 - dichloropropane | 78-87-5 |

*NEW
CLP
2/25/09*

KFC - 2/19/2009

\\bbg-files\projects\admin\divisions\envr\templates\bburg eteam temp\field events\watauga\pre-event set up\2005-coremw's,surf,&
res.parameterlists.doc

11/25/98 3:04 PM

KFC

WORK ORDER

Printed: 3/13/2009 1:03:09PM

0903085

COMPUCHEM

| | |
|---|--|
| Client: DRAPER | Project Manager: Cathy Dover |
| Project: WATAUGA COUNTY LANDFILL 6520-39 | Project Number: WATAUGA COUNTY LANDFILL 6520-39 |
| SDG: 0903085 CASE: | Status: Received |

| | |
|--|---|
| Report To: DRAPER JANET FRAZIER 2206 SOUTH MAIN STREET BLACKSBURG, VA 24060 Phone: (540)552-0044 Fax: - | Invoice To: WATAUGA COUNTY, NC MR. J.V. POLTER 842 WESTKING STREET/COURTHOUSE, SUITE 1 BOONE, NC 28607 Phone :- Fax: - |
|--|---|

| | |
|---|----------------------------------|
| Date Due: 04/02/2009 00:00 (20 day TAT) | Date Received: 03/13/2009 09:45 |
| Received By: Cathy Dover | Date Logged In: 03/13/2009 12:58 |
| Logged In By: Cathy Dover | |

| | | | | |
|--|------------|-------------------------|----------------------|------------------------------|
| J & B Flags?: NO | TICS?:EPA- | Spike Level: FULL Spike | Deliverable: Style 9 | EDD Format(36) DRAPER ACCESS |
| LCS/LCSD*OLM04.3 SUBLIST=WATAUGA.SUB*EPA SPIKE | | | | |

| Analysis | Due | TAT | Expires | Received | Comments |
|---|------------------|-----|------------------|------------------|---------------------|
| 0903085-01 S-1 [Water] Sampled 03/12/2009 09:15 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/26/2009 09:15 | 03/13/2009 09:45 | |
| 0903085-02 S-2 [Water] Sampled 03/12/2009 09:25 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/26/2009 09:25 | 03/13/2009 09:45 | |
| 0903085-03 S-3 [Water] Sampled 03/12/2009 09:00 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/26/2009 09:00 | 03/13/2009 09:45 | |
| 0903085-04 S-4 [Water] Sampled 03/12/2009 10:00 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/26/2009 10:00 | 03/13/2009 09:45 | |
| 0903085-05 S-5 [Water] Sampled 03/12/2009 09:40 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/26/2009 09:40 | 03/13/2009 09:45 | |
| 0903085-06 S-6 [Water] Sampled 03/12/2009 10:20 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/26/2009 10:20 | 03/13/2009 09:45 | |
| 0903085-07 TRIP BLANK [Water] Sampled 03/12/2009 00:00 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/26/2009 00:00 | 03/13/2009 09:45 | |
| 0903085-08 VHBLKXV [Water] Sampled 03/13/2009 00:00 Eastern | | | | | |
| VOA-OLM04.3 | 04/02/2009 16:00 | 20 | 03/27/2009 00:00 | 03/13/2009 09:45 | OLM04.3 STORAGE BLK |

WORK ORDER

Printed: 3/13/2009 1:03:09PM

0903085

COMPUCHEM

Client: DRAPER
Project: WATAUGA COUNTY LANDFILL 6520-39
SDG: 0903085 **CASE:**

Project Manager: Cathy Dover
Project Number: WATAUGA COUNTY LANDFILL 6520-39
Status: Received

VOA Internal Chain of Custody Sheet

Matrix Water

Batch: 9031333

Status: Batched

Analysis: VOA-OLM04.3

| Lab Id | Client Id | Received | Container | Extraction |
|--------------|------------|----------|-----------------------|------------|
| 0903085-01 A | S-1 | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 0903085-02 A | S-2 | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 0903085-03 A | S-3 | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 0903085-04 A | S-4 | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 0903085-05 A | S-5 | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 0903085-06 A | S-6 | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 0903085-07 A | TRIP BLANK | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 0903085-08 A | VHBLKXV | 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |

Standard Analytical

| Received | Container | Extraction |
|----------|-----------------------|------------|
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |
| 03/13/09 | 01b_40mL VOA, cool, F | VOA OLM |

| | | | |
|----------------------------|------------------------|------------------------|---------------------|
| Relinquished By <u>#2B</u> | Date <u>3-17-09</u> | Received By <u>JAD</u> | Date <u>3-17-09</u> |
| Relinquished By <u>JAD</u> | Date <u>3-17-09</u> | Received By <u>#2B</u> | Date <u>3-17-09</u> |
| Relinquished By <u>#2</u> | Date <u>3-19-09</u> | Received By <u>B</u> | Date <u>3-19-09</u> |
| Relinquished By <u>B</u> | Date <u>3-19-09</u> | Received By <u>#2</u> | Date <u>3-19-09</u> |
| Relinquished By <u>#2B</u> | Date <u>3-20-09</u> | Received By <u>JAD</u> | Date <u>3-20-09</u> |
| Relinquished By <u>JAD</u> | Date <u>3-20-09</u> | Received By <u>#2B</u> | Date <u>3-20-09</u> |
| Relinquished By _____ | Date <u>PM 3-26-09</u> | Received By _____ | Date _____ |

C. Volatile Data

1. Q C Summary
2. Sample Data
3. Standards Data
4. Raw Q C Data

LAB CODE : LIBRTY

CONTRACT # : OLM04-REVS

CASE # :

SDG # : 0903085

1. Q C Summary

- a. System Monitoring Compound Summary
(Form II VOA)
- b. Matrix Spike/Matrix Spike Duplicate Summary
(Form III VOA)
- c. Method Blank Summary
(Form IV VOA)
- d. GC/MS Instrument Performance Check
(Form V VOA)
- e. Internal Standard Area and RT Summary
(Form VIII VOA)

a. System Monitoring Compound Summary
(Form II VOA)

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

| | EPA SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|----|-------------------|-----------------|-----------------|-----------------|-------|------------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | VBLKGW | 96 | 90 | 96 | | 0 |
| 02 | S-2 | 92 | 86 | 100 | | 0 |
| 03 | S-3 | 94 | 86 | 100 | | 0 |
| 04 | VBLKHC | 106 | 86 | 106 | | 0 |
| 05 | VHCLCS | 102 | 102 | 106 | | 0 |
| 06 | VHCLCSD | 102 | 100 | 110 | | 0 |
| 07 | S-1 | 104 | 90 | 110 | | 0 |
| 08 | S-6 | 106 | 94 | 114 | | 0 |
| 09 | VBLKHD | 104 | 92 | 92 | | 0 |
| 10 | VHDLCS | 104 | 102 | 96 | | 0 |
| 11 | VHDLCSD | 102 | 102 | 96 | | 0 |
| 12 | TRIP BLANK | 108 | 98 | 94 | | 0 |
| 13 | S-5 | 104 | 96 | 102 | | 0 |
| 14 | S-4 | 102 | 94 | 102 | | 0 |
| 15 | VHBLKXR | 110 | 98 | 96 | | 0 |
| 16 | | | | | | |
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| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

**b. Matrix Spike/Matrix Spike Duplicate
Summary
(Form III VOA)**

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix Spike - EPA Sample No.: VHCLCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Dichlorodifluoromethane | 50 | | 43 | 86 | 50-150 |
| Vinyl Chloride | 50 | | 45 | 90 | 50-150 |
| Chloroethane | 50 | | 47 | 94 | 50-150 |
| 1,1-Dichloroethene | 50 | | 47 | 94 | 50-150 |
| Methylene Chloride | 50 | | 47 | 94 | 50-150 |
| trans-1,2-Dichloroethen | 50 | | 48 | 96 | 50-150 |
| 1,1-Dichloroethane | 50 | | 47 | 94 | 50-150 |
| cis-1,2-Dichloroethene | 50 | | 46 | 92 | 50-150 |
| 1,1,1-Trichloroethane | 50 | | 54 | 108 | 50-150 |
| 1,2-Dichloroethane | 50 | | 50 | 100 | 50-150 |
| 1,2-Dichloroethane | 50 | | 50 | 100 | 50-150 |
| 1,2-Dichloroethane | 50 | | 50 | 100 | 50-150 |
| 1,2-Dichloropropane | 50 | | 53 | 106 | 50-150 |
| Tetrachloroethene | 50 | | 51 | 102 | 50-150 |
| Chlorobenzene | 50 | | 50 | 100 | 50-150 |
| 1,4-Dichlorobenzene | 50 | | 49 | 98 | 50-150 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903085

Matrix Spike - EPA Sample No.: VHCLCS

| COMPOUND | SPIKE ADDED (ug/L) | LCS D CONCENTRATION (ug/L) | LCS D % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|----------------------------------|---------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 50 | 48 | 96 | 11 | 40 | 50-150 |
| Vinyl Chloride | 50 | 50 | 100 | 11 | 40 | 50-150 |
| Chloroethane | 50 | 51 | 102 | 8 | 40 | 50-150 |
| 1,1-Dichloroethene | 50 | 53 | 106 | 12 | 40 | 50-150 |
| Methylene Chloride | 50 | 50 | 100 | 6 | 40 | 50-150 |
| trans-1,2-Dichloroethen | 50 | 52 | 104 | 8 | 40 | 50-150 |
| 1,1-Dichloroethane | 50 | 53 | 106 | 12 | 40 | 50-150 |
| cis-1,2-Dichloroethene | 50 | 51 | 102 | 10 | 40 | 50-150 |
| 1,1,1-Trichloroethane | 50 | 60 | 120 | 11 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 56 | 112 | 11 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 56 | 112 | 11 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 56 | 112 | 11 | 40 | 50-150 |
| 1,2-Dichloropropane | 50 | 56 | 112 | 6 | 40 | 50-150 |
| Tetrachloroethene | 50 | 52 | 104 | 2 | 40 | 50-150 |
| Chlorobenzene | 50 | 53 | 106 | 6 | 40 | 50-150 |
| 1,4-Dichlorobenzene | 50 | 50 | 100 | 2 | 40 | 50-150 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 0 out of 32 outside limits

COMMENTS:

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903085

Matrix Spike - EPA Sample No.: VHD LCS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC # | QC. LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|--------------------------------|-------------------|-----------------------|
| Dichlorodifluoromethane | 50 | | 56 | 112 | 50-150 |
| Vinyl Chloride | 50 | | 56 | 112 | 50-150 |
| Chloroethane | 50 | | 58 | 116 | 50-150 |
| 1,1-Dichloroethene | 50 | | 54 | 108 | 50-150 |
| Methylene Chloride | 50 | | 58 | 116 | 50-150 |
| trans-1,2-Dichloroethen | 50 | | 61 | 122 | 50-150 |
| 1,1-Dichloroethane | 50 | | 63 | 126 | 50-150 |
| cis-1,2-Dichloroethene | 50 | | 61 | 122 | 50-150 |
| 1,1,1-Trichloroethane | 50 | | 54 | 108 | 50-150 |
| 1,2-Dichloroethane | 50 | | 62 | 124 | 50-150 |
| 1,2-Dichloroethane | 50 | | 62 | 124 | 50-150 |
| 1,2-Dichloroethane | 50 | | 62 | 124 | 50-150 |
| 1,2-Dichloropropane | 50 | | 55 | 110 | 50-150 |
| Tetrachloroethene | 50 | | 55 | 110 | 50-150 |
| Chlorobenzene | 50 | | 53 | 106 | 50-150 |
| 1,4-Dichlorobenzene | 50 | | 53 | 106 | 50-150 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix Spike - EPA Sample No.: VHD LCS

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC # | % RPD # | QC LIMITS | |
|-------------------------|--------------------------|---------------------------------|--------------------|------------|-----------|--------|
| | | | | | RPD | REC. |
| Dichlorodifluoromethane | 50 | 58 | 116 | 4 | 40 | 50-150 |
| Vinyl Chloride | 50 | 59 | 118 | 5 | 40 | 50-150 |
| Chloroethane | 50 | 61 | 122 | 5 | 40 | 50-150 |
| 1,1-Dichloroethene | 50 | 57 | 114 | 5 | 40 | 50-150 |
| Methylene Chloride | 50 | 57 | 114 | 2 | 40 | 50-150 |
| trans-1,2-Dichloroethen | 50 | 60 | 120 | 2 | 40 | 50-150 |
| 1,1-Dichloroethane | 50 | 62 | 124 | 2 | 40 | 50-150 |
| cis-1,2-Dichloroethene | 50 | 59 | 118 | 3 | 40 | 50-150 |
| 1,1,1-Trichloroethane | 50 | 51 | 102 | 6 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 61 | 122 | 2 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 61 | 122 | 2 | 40 | 50-150 |
| 1,2-Dichloroethane | 50 | 61 | 122 | 2 | 40 | 50-150 |
| 1,2-Dichloropropane | 50 | 52 | 104 | 6 | 40 | 50-150 |
| Tetrachloroethene | 50 | 52 | 104 | 6 | 40 | 50-150 |
| Chlorobenzene | 50 | 52 | 104 | 2 | 40 | 50-150 |
| 1,4-Dichlorobenzene | 50 | 53 | 106 | 0 | 40 | 50-150 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 0 out of 32 outside limits

COMMENTS:

c. Method Blank Summary (Form IV VOA)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

d. GC/MS Instrument Performance Check (Form V VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

e. Internal Standard Area and RT Summary
(Form VIII VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 EPA Sample No. (VSTD050##): VSTD050GW Date Analyzed: 03/17/09
 Lab File ID (Standard): 9C17004-CAL391 Time Analyzed: 1430
 Instrument ID: 5975HPMS91 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID:0.32 (mm)

| | IS1 (BCM) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (CBZ) AREA # | RT # |
|-------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 90803 | 9.25 | 583569 | 10.23 | 573027 | 12.99 |
| UPPER LIMIT | 181606 | 9.75 | 1167138 | 10.73 | 1146054 | 13.49 |
| LOWER LIMIT | 45401 | 8.75 | 291785 | 9.73 | 286513 | 12.49 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKGW | 87499 | 9.25 | 550059 | 10.23 | 529382 | 12.99 |
| 02 S-2 | 84155 | 9.25 | 526812 | 10.23 | 525882 | 12.99 |
| 03 S-3 | 84117 | 9.25 | 525449 | 10.23 | 519457 | 12.99 |
| 04 | | | | | | |
| 05 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 EPA Sample No. (VSTD050##): VSTD050HC Date Analyzed: 03/19/09
 Lab File ID (Standard): 9C19009-CAL359 Time Analyzed: 2332
 Instrument ID: 5972HP59 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID:0.32 (mm)

| | IS1 (BCM) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (CBZ) AREA # | RT # |
|-------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 56700 | 9.09 | 338210 | 9.99 | 311749 | 12.55 |
| UPPER LIMIT | 113400 | 9.59 | 676420 | 10.49 | 623498 | 13.05 |
| LOWER LIMIT | 28350 | 8.59 | 169105 | 9.49 | 155875 | 12.05 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKHC | 58938 | 9.08 | 342822 | 10.00 | 289790 | 12.55 |
| 02 VHCLCS | 57232 | 9.08 | 318659 | 9.99 | 296967 | 12.55 |
| 03 VHCLCSD | 56441 | 9.09 | 316151 | 9.99 | 304720 | 12.56 |
| 04 S-1 | 52943 | 9.09 | 287869 | 9.99 | 252490 | 12.55 |
| 05 S-6 | 48061 | 9.09 | 260259 | 10.00 | 240535 | 12.55 |
| 06 | | | | | | |
| 07 | | | | | | |
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| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 EPA Sample No. (VSTD050##): VSTD050HD Date Analyzed: 03/20/09
 Lab File ID (Standard): 9C20001-CCV159 Time Analyzed: 0956
 Instrument ID: 5972HP59 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID:0.32 (mm)

| | IS1 (BCM) | RT # | IS2 (DFB) | RT # | IS3 (CBZ) | RT # |
|---------------|-----------|-------|-----------|-------|-----------|-------|
| ===== | AREA # | ===== | AREA # | ===== | AREA # | ===== |
| 12 HOUR STD | 64513 | 9.09 | 317104 | 9.99 | 300936 | 12.55 |
| UPPER LIMIT | 129026 | 9.59 | 634208 | 10.49 | 601872 | 13.05 |
| LOWER LIMIT | 32257 | 8.59 | 158552 | 9.49 | 150468 | 12.05 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 VBLKHD | 54063 | 9.08 | 288275 | 9.99 | 256345 | 12.54 |
| 02 VHDLCS | 53068 | 9.08 | 300327 | 9.98 | 272433 | 12.55 |
| 03 VHDLCS | 47312 | 9.09 | 265821 | 9.99 | 263511 | 12.55 |
| 04 TRIP BLANK | 45195 | 9.09 | 259588 | 9.99 | 229576 | 12.55 |
| 05 S-5 | 43277 | 9.09 | 241222 | 10.00 | 230004 | 12.55 |
| 06 S-4 | 41590 | 9.08 | 242383 | 9.99 | 223724 | 12.55 |
| 07 VHBLKXR | 42455 | 9.08 | 241641 | 9.99 | 215084 | 12.55 |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
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| 22 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I, VOA-1, VOA-2 and Form I VOA-TIC), followed by the raw data for volatile samples. These sample packets shall be placed in increasing EPA Sample ID number order, considering both letters and numbers.

- a. Target Compound List (TCL) Analyte Results
(Form I, VOA-1, VOA-2)
Tabulated results (identification and quantitation) shall be included.
- b. Tentatively Identified Compounds (Form I VOA-TIC)
Lists up to 30 organic compounds that are not system monitoring compounds or internal standard compounds, and are not listed on the target compound list. This form shall be included even if no compounds are found.
- c. Reconstructed Total Ion Chromatograms
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: EPA Sample ID number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.
- d. Quantitation Report showing calculations for TCL analytes
 - Include a printout of the EICP for all manual changes to all compounds, internal standards, and system monitoring compounds.
- e. Copies of raw spectra and copies of background-subtracted mass spectra of TCL analytes identified in the sample.
 - The spectra shall include the following information: EPA Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
 - The compound name must be clearly marked.
- f. Quantitation Report showing calculations for TICs
- g. Copies of mass spectra of organic compounds not listed on the target compound list (TICs) with associated best-match spectra. Spectra shall be labeled as follows: EPA Sample ID number, lab file ID, date and time of analysis, and instrument ID. The compound name must be clearly marked.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|-----|
| S-1 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-01

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-01R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| | | | |
|----------|--------------------------|----|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
|-----|
| S-1 |
|-----|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-01

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-01R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

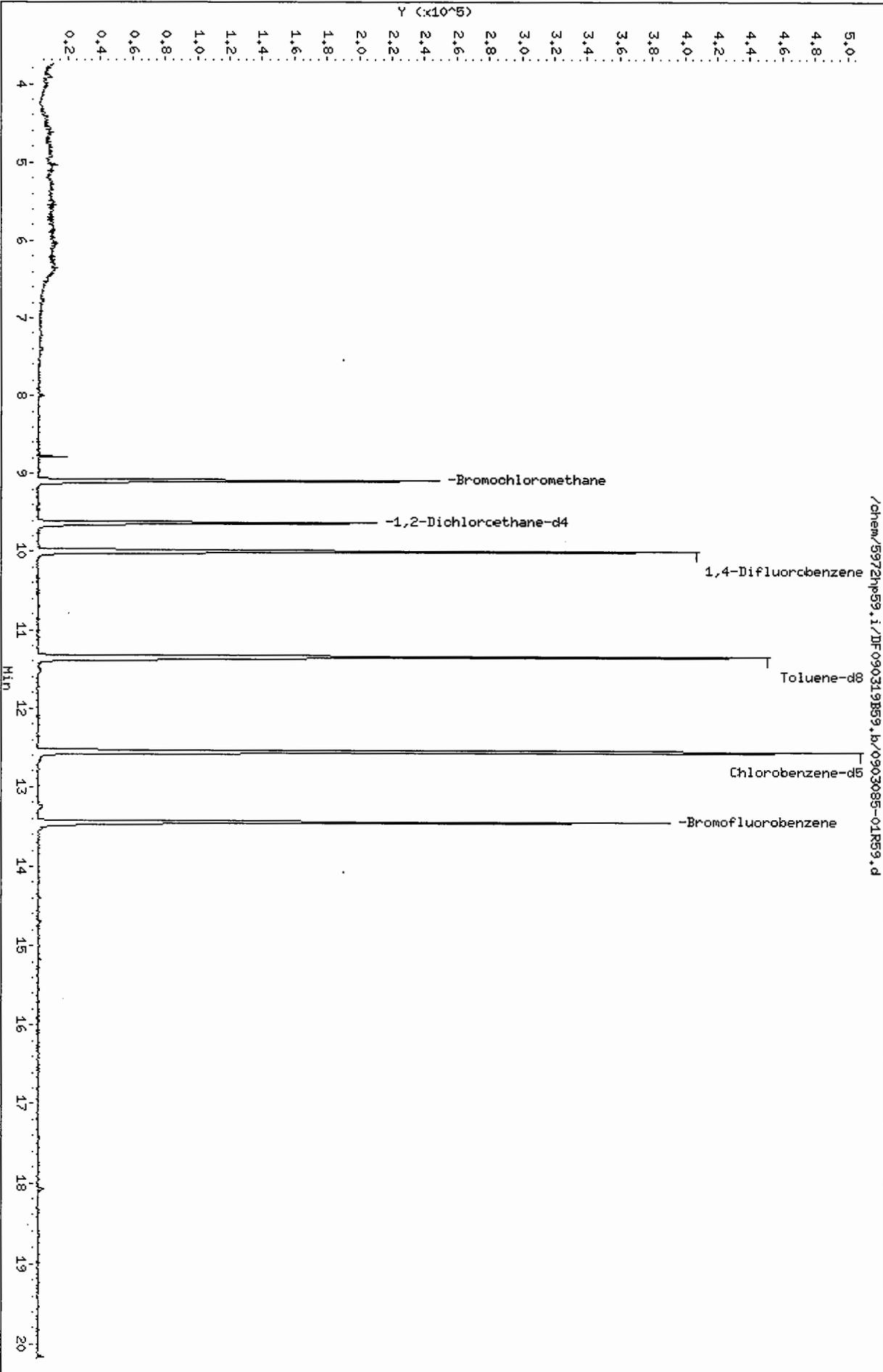
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
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Data File: /chem/5972hp59.i/DF090319R59.b/0903085-01R59.d
Date: 20-MAR-2009 02:58
Client ID: S-1
Sample Info: 0903085-01:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/0903085-01R59.d
 Lab Smp Id: 0903085-01 Client Smp ID: S-1
 Inj Date : 20-MAR-2009 02:58
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 0903085-01:TD
 Misc Info : S-1
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|--------|--------|---------|------------------------|-----------------|---------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.087 | 9.087 | (1.000) | 52943 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 9.994 | 9.994 | (1.000) | 287869 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.547 | 12.547 | (1.000) | 252490 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.629 | 9.629 | (1.060) | 169261 | 276.374 | 55 |
| \$ 5 Toluene-d8 | 98 | 11.345 | 11.344 | (0.904) | 320566 | 259.211 | 52 |
| \$ 6 Bromofluorobenzene | 95 | 13.444 | 13.444 | (1.071) | 139415 | 223.500 | 45 |
| 7 Dichlorodifluoromethane | 85 | | | | Compound Not Detected. | | |
| 9 Vinyl Chloride | 62 | | | | Compound Not Detected. | | |
| 11 Chloroethane | 64 | | | | Compound Not Detected. | | |
| 14 1,1-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| 18 Methylene Chloride | 84 | | | | Compound Not Detected. | | |
| 20 trans-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| 21 1,1-Dichloroethane | 63 | | | | Compound Not Detected. | | |
| 23 cis-1,2-Dichloroethene | 96 | | | | Compound Not Detected. | | |
| 25 1,1,1-Trichloroethane | 97 | | | | Compound Not Detected. | | |

Data File: /chem/5972hp59.i/DF090319B59.b/0903085-01R59.d
Report Date: 20-Mar-2009 17:31

| Compounds | QUANT SIG MASS | RT | EXP | RT | REL | RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-------------------|----|----------|-------|-----------|-------|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ----- | ---- | -- | ----- | ----- | ----- | ----- | ----- | ----- | |
| 28 1,2-Dichloroethane | 62 | | Compound | Not | Detected. | | | | |
| 29 Benzene | 78 | | Compound | Not | Detected. | | | | |
| 30 Trichloroethene | 130 | | Compound | Not | Detected. | | | | |
| 31 1,2-Dichloropropane | 63 | | Compound | Not | Detected. | | | | |
| 40 Tetrachloroethene | 164 | | Compound | Not | Detected. | | | | |
| 43 Chlorobenzene | 112 | | Compound | Not | Detected. | | | | |
| 52 1,4-Dichlorobenzene | 146 | | Compound | Not | Detected. | | | | |

Data File: /chem/5972hp59.i/DF090319B59.b/0903085-01R59.d
Report Date: 20-Mar-2009 17:31

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/0903085-01R59.d
Lab Smp Id: 0903085-01 Client Smp ID: S-1
Inj Date : 20-MAR-2009 02:58
Operator : TD Inst ID: 5972hp59.i
Smp Info : 0903085-01:TD
Misc Info : S-1
Comment :
Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
|-----|
| S-2 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-02

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0291

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

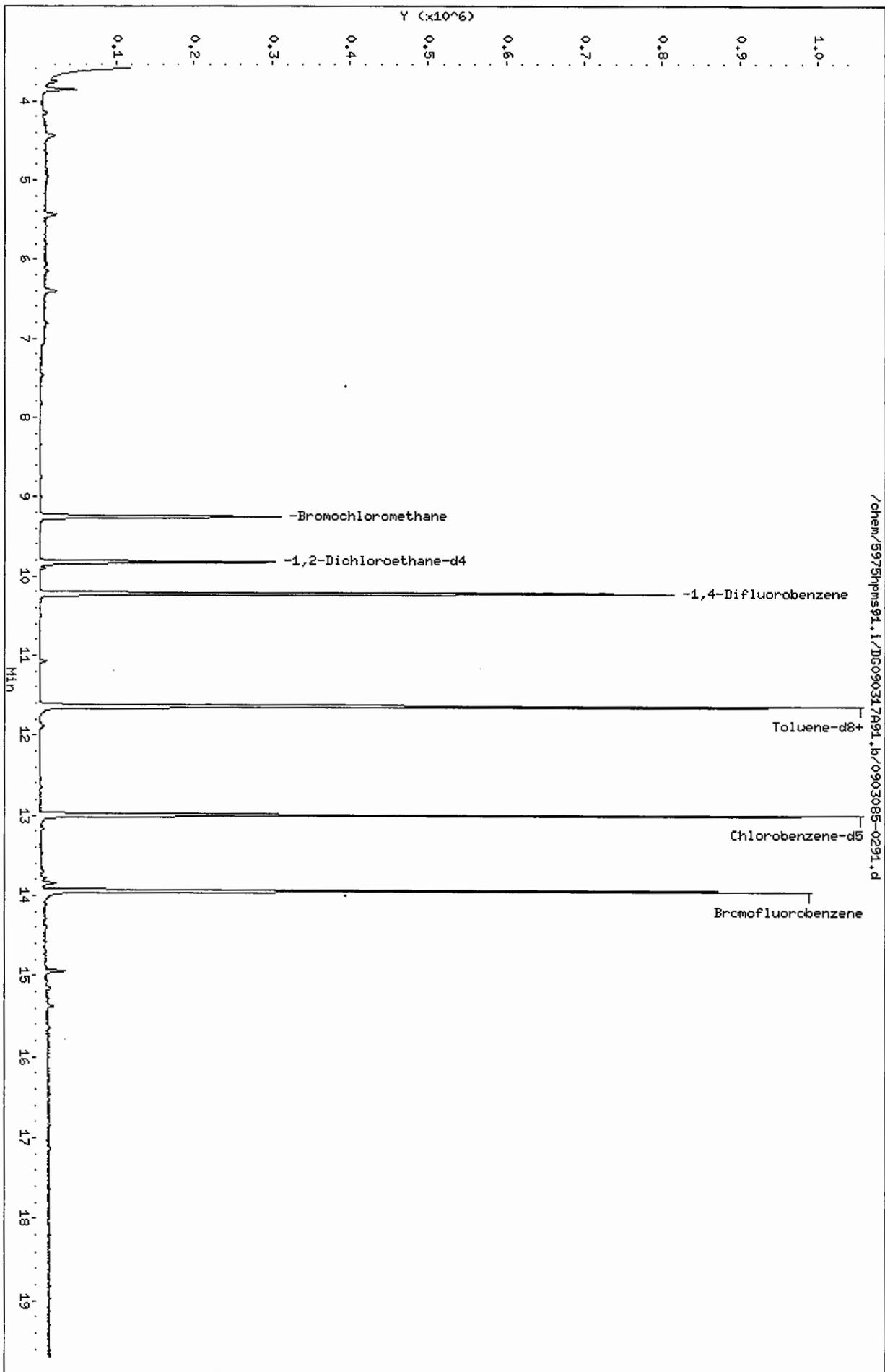
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 1. | | | | |
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Data File: /chem/5975hpms91.i/DC090317A91.b/0903085-0291.d
Date: 17-MAR-2009 20:08
Client ID: S-2
Sample Info: 0903085-02:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/0903085-0291.d
 Lab Smp Id: 0903085-02 Client Smp ID: S-2
 Inj Date : 17-MAR-2009 20:08
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 0903085-02:JAO
 Misc Info : S-2
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:21 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|-----------------|---------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.250 | 9.244 | (1.000) | 84155 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 10.226 | 10.220 | (1.000) | 526812 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.993 | 12.994 | (1.000) | 525882 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.823 | 9.823 | (1.062) | 228774 | 250.642 | 50 |
| \$ 5 Toluene-d8 | 98 | 11.640 | 11.634 | (0.896) | 664201 | 232.177 | 46 |
| 6 Bromofluorobenzene | 95 | 13.944 | 13.945 | (1.073) | 283933 | 215.938 | 43 |
| 7 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | 64 | 5.434 | 5.416 | (0.587) | 16733 | 27.8497 | 6 (aH) |
| 14 1,1-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |

Handwritten signature and date:
 3/18/09

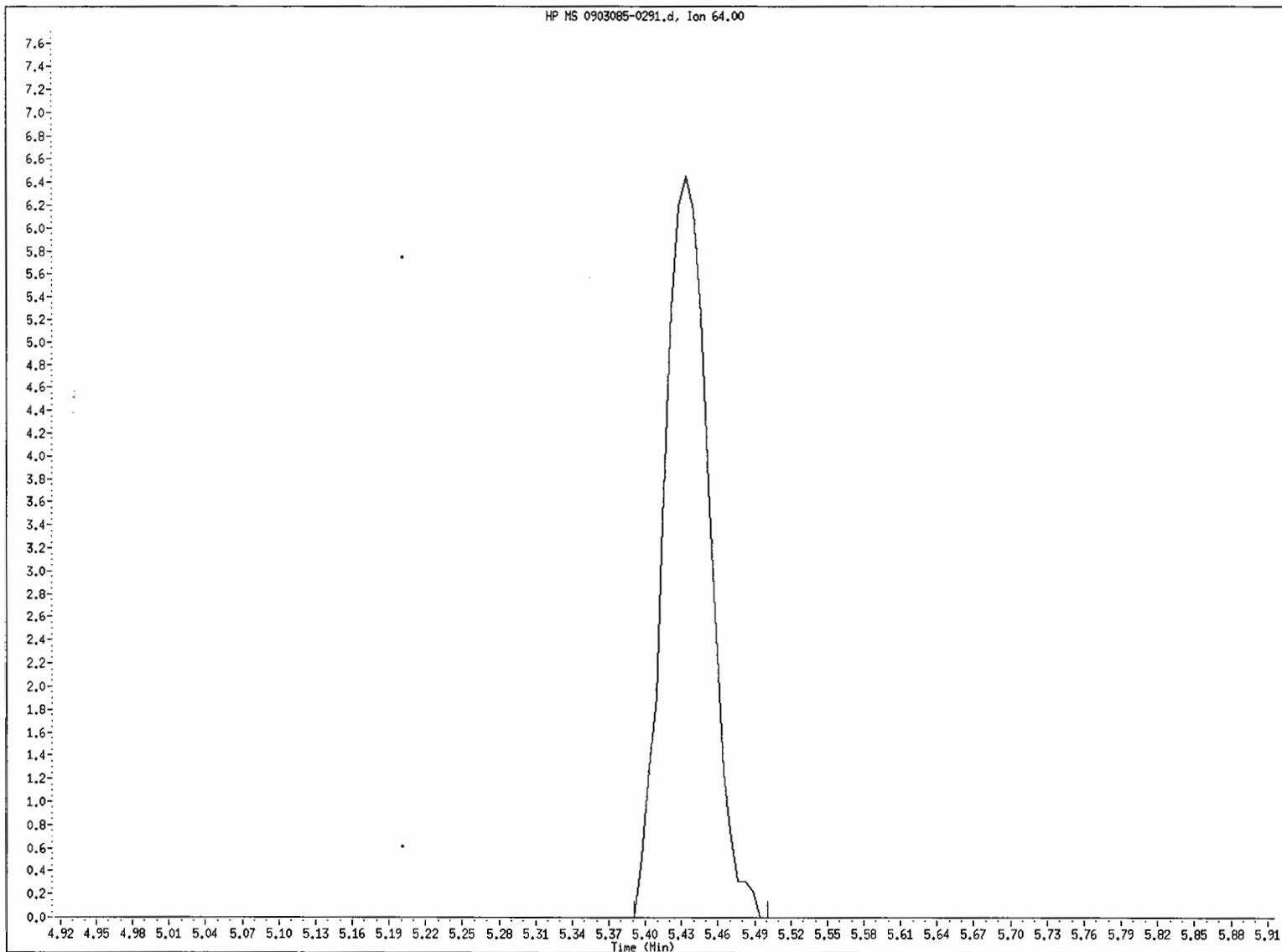
Data File: /chem/5975hpms91.i/DG090317A91.b/0903085-0291.d
Report Date: 18-Mar-2009 17:25

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-----------|----|--------|--------|------------------------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ----- | ---- | == | ----- | ----- | ----- | ----- | ----- |
| 28 1,2-Dichloroethane | 62 | | | | Compound Not Detected. | | |
| 29 Benzene | 78 | | | | Compound Not Detected. | | |
| 30 Trichloroethene | 130 | | | | Compound Not Detected. | | |
| 31 1,2-Dichloropropane | 63 | | | | Compound Not Detected. | | |
| 40 Tetrachloroethene | 164 | | | | Compound Not Detected. | | |
| 43 Chlorobenzene | 112 | | | | Compound Not Detected. | | |
| 52 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

Chloroethane CAS Number 75-00-3 Area = 16733 User selected hit



File name: /chem/5975hpms91.i/DG090317A91.b/0903085-0291.d

Client ID: S-2

Instrument ID: 5975hpms91.i

Injection Date and Time: 17-MAR-2009 20:08

Retention Time: 5.43

Operator ID: JAO

Data File: /chem/5975hpms91.i/DC090317A91.b/0903085-0291.d

Date : 17-MAR-2009 20:08

Client ID: S-2

Instrument: 5975hpms91.i

Sample Info: 0903085-02;JAO

Purge Volume: 5.0

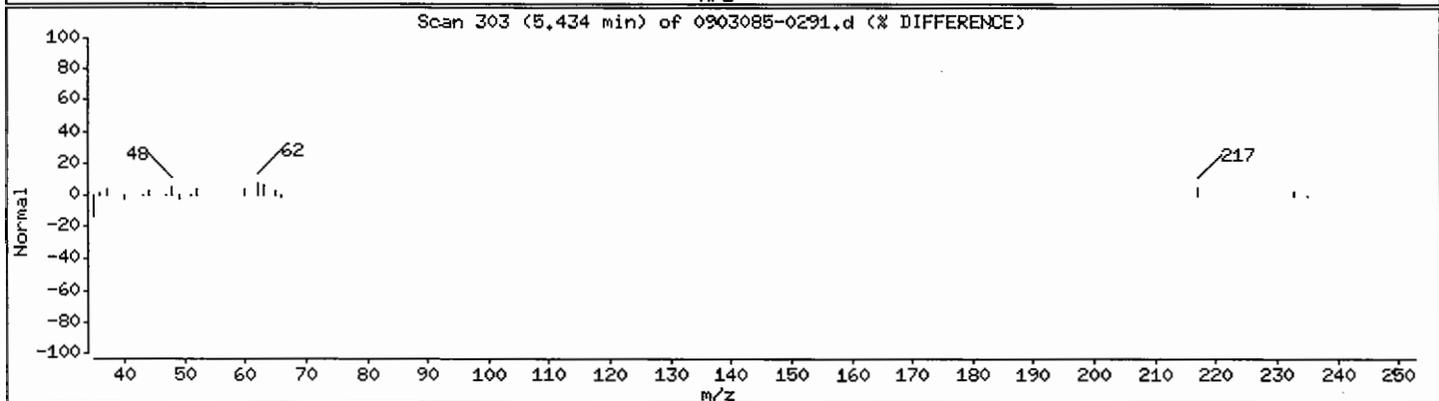
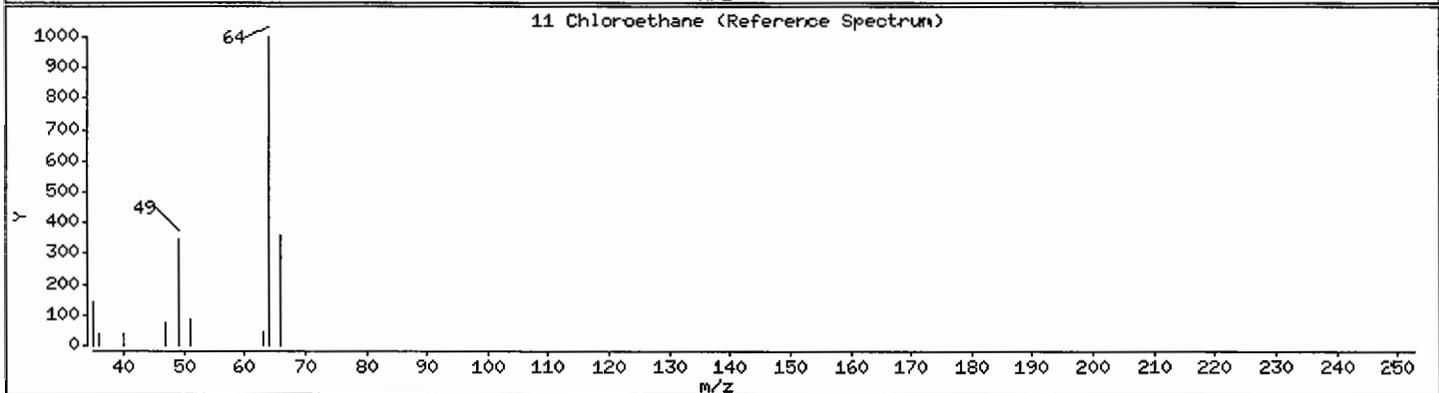
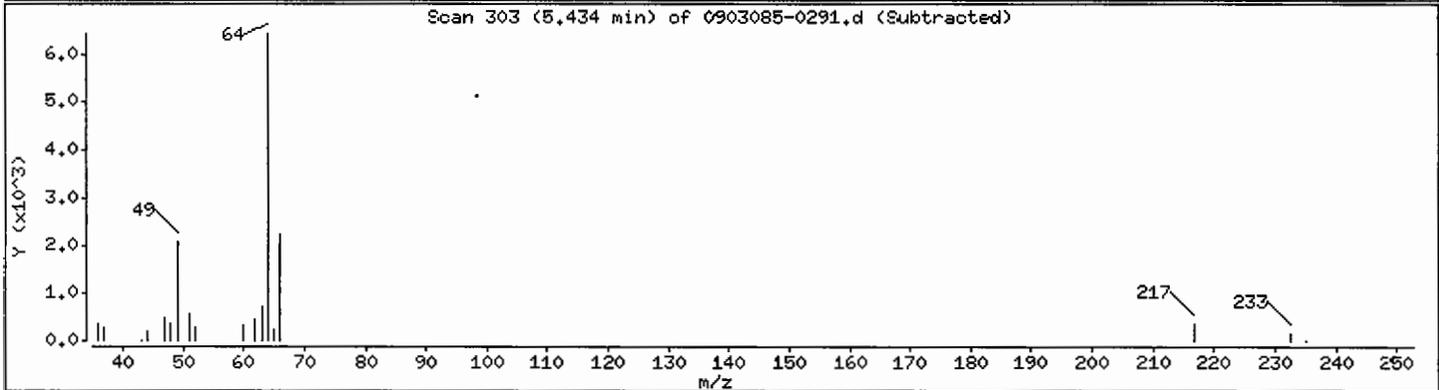
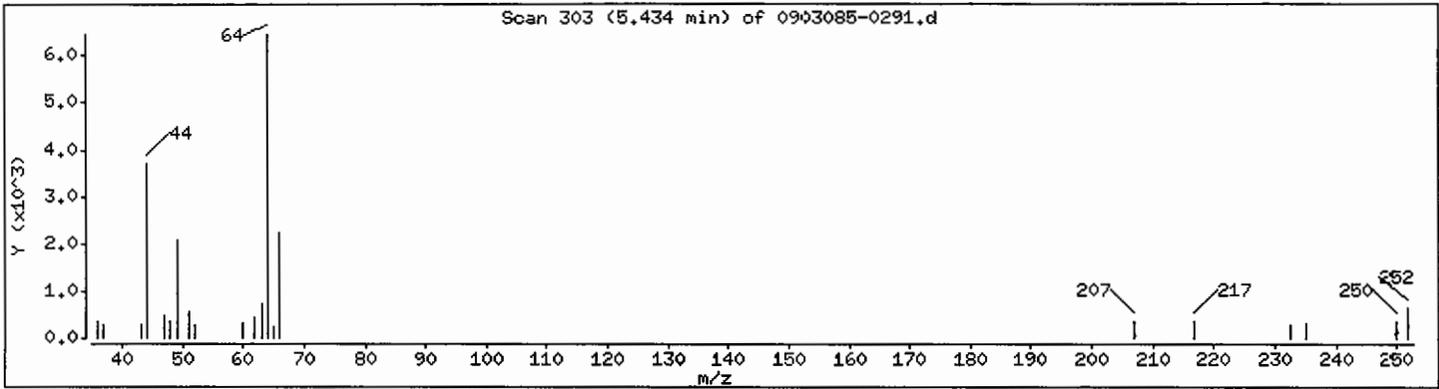
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

11 Chloroethane

Concentration: 6 ug/L



Data File: /chem/5975hpms91.i/DG090317A91.b/0903085-0291.d
Report Date: 18-Mar-2009 17:25

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/0903085-0291.d
Lab Smp Id: 0903085-02 Client Smp ID: S-2
Inj Date : 17-MAR-2009 20:08
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 0903085-02:JAO
Misc Info : S-2
Comment :
Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
Meth Date : 18-Mar-2009 16:21 walker Quant Type: ISTD
Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-03

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0391

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L | Q |
|----------|--------------------------|---|------|---|
| 75-71-8 | Dichlorodifluoromethane | | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |

FORM I VOA-1

OLM04.2

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
|-----|
| S-3 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-03

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-0391

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

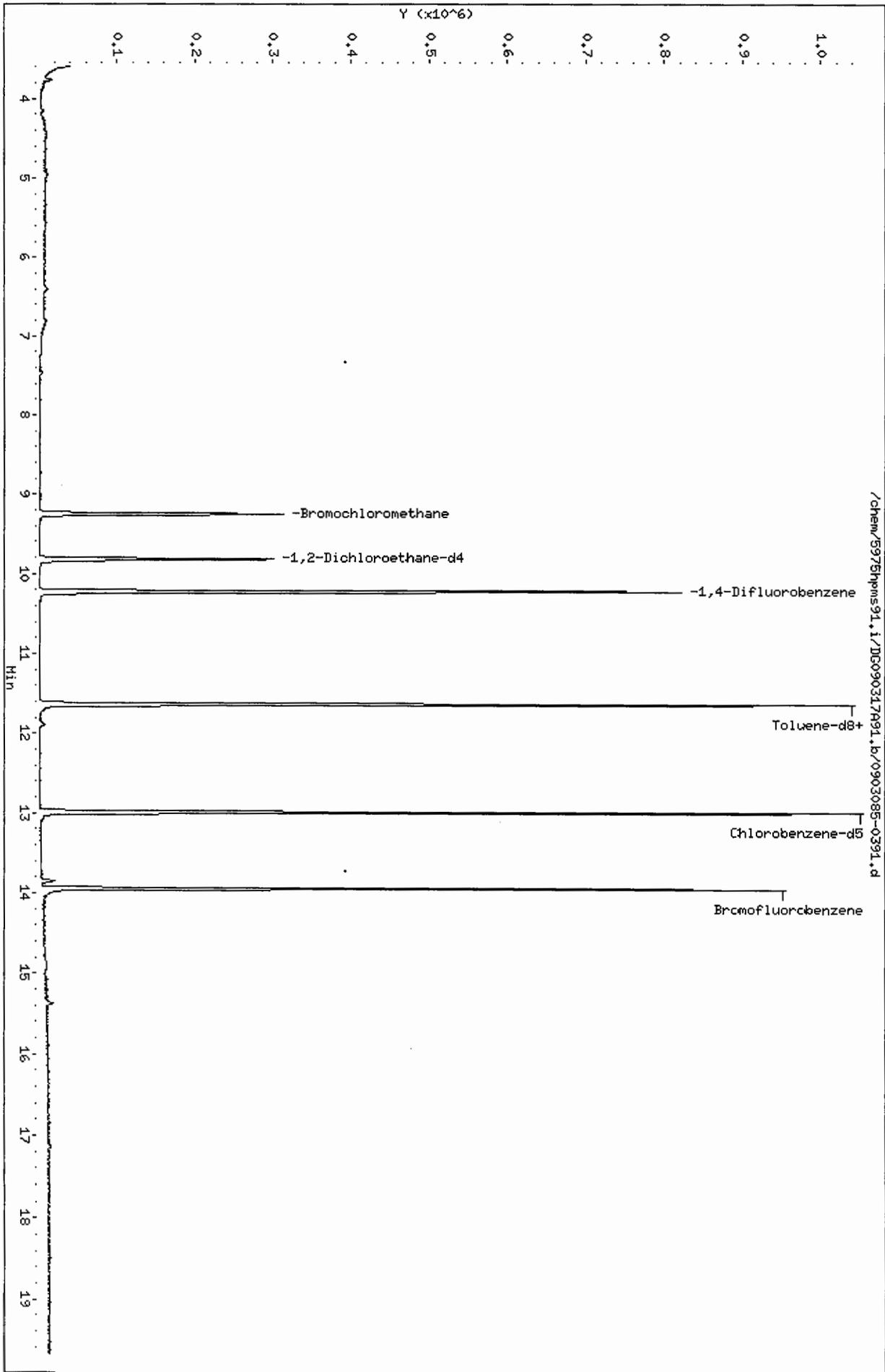
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
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Data File: /chem/5975hpm591.i/DC090317A91.k/0903085-0391.d
Date: 17-MAR-2009 20:35
Client ID: S-3
Sample Info: 0903085-03:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpm591.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DG090317A91.b/0903085-0391.d
 Report Date: 18-Mar-2009 17:25

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/0903085-0391.d
 Lab Smp Id: 0903085-03 Client Smp ID: S-3
 Inj Date : 17-MAR-2009 20:35
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 0903085-03:JAO
 Misc Info : S-3
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:21 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|----------------|--------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.250 | 9.244 | (1.000) | 84117 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 10.226 | 10.220 | (1.000) | 525449 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.994 | 12.994 | (1.000) | 519457 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.823 | 9.823 | (1.062) | 229121 | 251.136 | 50 |
| \$ 5 Toluene-d8 | 98 | 11.640 | 11.634 | (0.896) | 661516 | 234.098 | 47 |
| ^ 6 Bromofluorobenzene | 95 | 13.945 | 13.945 | (1.073) | 277066 | 213.322 | 43 |
| 7 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | 64 | Compound Not Detected. | | | | | |
| 14 1,1-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |

[Handwritten signature]
 3/18/09

Data File: /chem/5975hpms91.i/DG090317A91.b/0903085-0391.d
Report Date: 18-Mar-2009 17:25

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-----------|----|--------|--------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | | | | | | |
| 29 Benzene | 78 | | | | | | |
| 30 Trichloroethene | 130 | | | | | | |
| 31 1,2-Dichloropropane | 63 | | | | | | |
| 40 Tetrachloroethene | 164 | | | | | | |
| 43 Chlorobenzene | 112 | | | | | | |
| 52 1,4-Dichlorobenzene | 146 | | | | | | |

Data File: /chem/5975hpms91.i/DG090317A91.b/0903085-0391.d
Report Date: 18-Mar-2009 17:25

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/0903085-0391.d
Lab Smp Id: 0903085-03 Client Smp ID: S-3
Inj Date : 17-MAR-2009 20:35
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 0903085-03:JAO
Misc Info : S-3
Comment :
Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
Meth Date : 18-Mar-2009 16:21 walker Quant Type: ISTD
Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-4

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-04

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-04R359

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L | Q |
|----------|--------------------------|---|------|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U | |
| 75-01-4 | Vinyl Chloride | 10 | U | |
| 75-00-3 | Chloroethane | 10 | U | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | |
| 75-09-2 | Methylene Chloride | 10 | U | |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U | |
| 75-34-3 | 1,1-Dichloroethane | 4 | J | |
| 156-59-2 | cis-1,2-Dichloroethene | 9 | J | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U | |
| 71-43-2 | Benzene | 10 | U | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | |
| 79-01-6 | Trichloroethene | 10 | U | |
| 78-87-5 | 1,2-Dichloropropane | 10 | U | |
| 127-18-4 | Tetrachloroethene | 10 | U | |
| 108-90-7 | Chlorobenzene | 10 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | |

1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-4 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-04

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-04R359

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

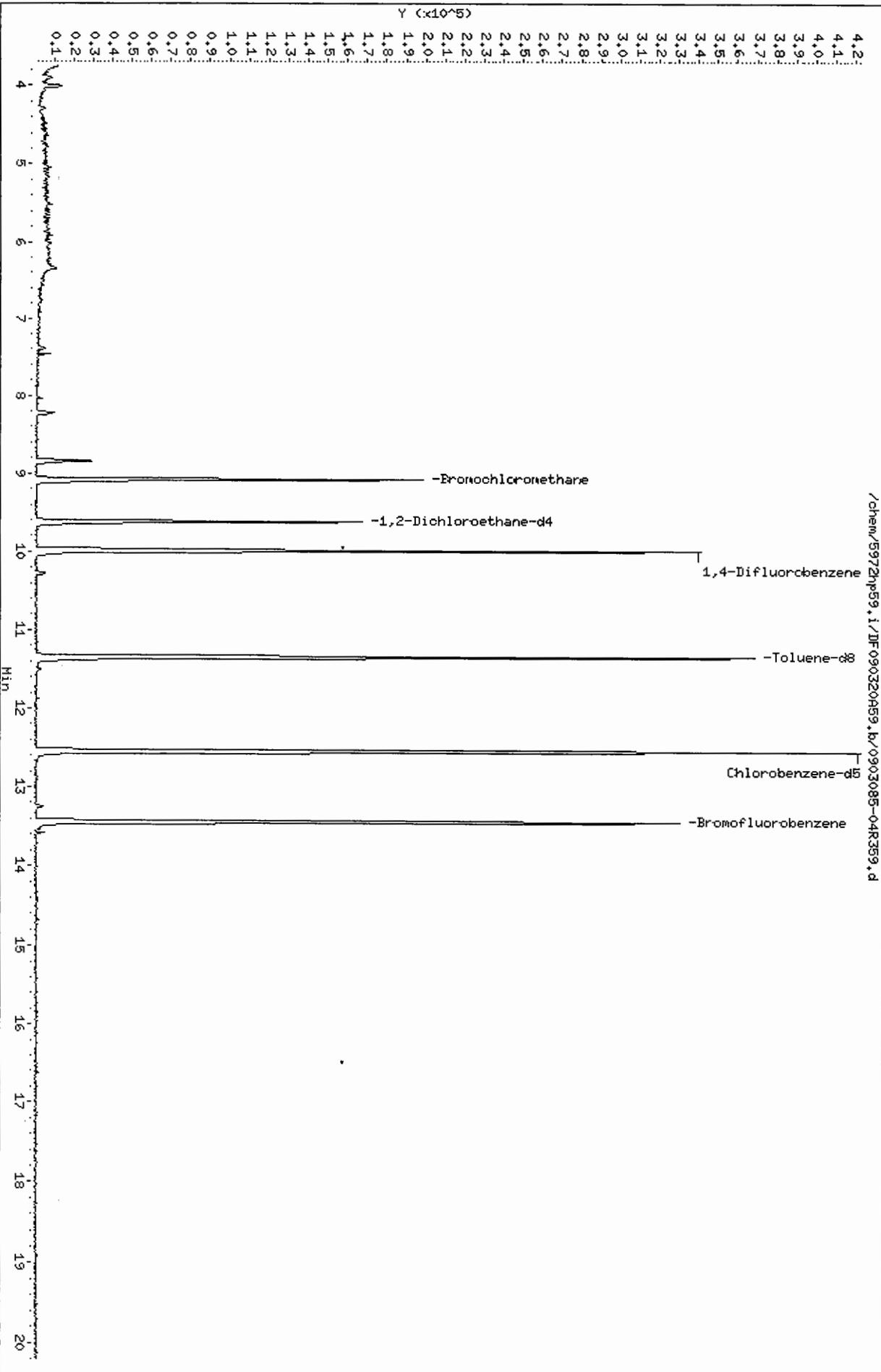
Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
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Data File: /chem/5972hp59.i/JF090320A59.k/0903085-04R359.d
Date: 20-HAR-2009 14:17
Client ID: S-4
Sample Info: 0903085-04;JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090320A59.b/0903085-04R359.d
 Report Date: 23-Mar-2009 19:10

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/0903085-04R359.d
 Lab Smp Id: 0903085-04 Client Smp ID: S-4
 Inj Date : 20-MAR-2009 14:17
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 0903085-04:JAO
 Misc Info : S-4
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | RT | EXP | RT | REL | RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-------|-----|------------------------|--------|---------|-----|----|----------|----------------|-------|
| | | | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | | (ng) | (ug/L) | |
| * 1 Bromochloromethane | 128 | | 9.081 | 9.086 | (1.000) | | | 41590 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | | 9.988 | 9.993 | (1.000) | | | 242383 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | | 12.551 | 12.546 | (1.000) | | | 223724 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | | 9.624 | 9.618 | (1.060) | | | 134169 | 252.573 | 51 |
| 5 Toluene-d8 | 98 | | 11.339 | 11.343 | (0.903) | | | 270025 | 253.724 | 51 |
| 6 Bromofluorobenzene | 95 | | 13.439 | 13.443 | (1.071) | | | 124473 | 235.118 | 47 |
| 7 Dichlorodifluoromethane | 85 | | Compound Not Detected. | | | | | | | |
| 9 Vinyl Chloride | 62 | | Compound Not Detected. | | | | | | | |
| 11 Chloroethane | 64 | | Compound Not Detected. | | | | | | | |
| 14 1,1-Dichloroethene | 96 | | Compound Not Detected. | | | | | | | |
| 18 Methylene Chloride | 84 | | Compound Not Detected. | | | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | | Compound Not Detected. | | | | | | | |
| 21 1,1-Dichloroethane | 63 | | 8.224 | 8.218 | (0.906) | | | 10198 | 18.5873 | 4 (a) |
| 23 cis-1,2-Dichloroethene | 96 | | 8.845 | 8.839 | (0.974) | | | 11234 | 42.6618 | 9 (a) |
| 25 1,1,1-Trichloroethane | 97 | | Compound Not Detected. | | | | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/0903085-04R359.d
Report Date: 23-Mar-2009 19:10

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-------------------|----|--------|--------|------------------------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| ----- | ---- | -- | ----- | ----- | ----- | ----- | ----- |
| 28 1,2-Dichloroethane | 62 | | | | Compound Not Detected. | | |
| 29 Benzene | 78 | | | | Compound Not Detected. | | |
| 30 Trichloroethene | 130 | | | | Compound Not Detected. | | |
| 31 1,2-Dichloropropane | 63 | | | | Compound Not Detected. | | |
| 40 Tetrachloroethene | 164 | | | | Compound Not Detected. | | |
| 43 Chlorobenzene | 112 | | | | Compound Not Detected. | | |
| 52 1,4-Dichlorobenzene | 146 | | | | Compound Not Detected. | | |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).

Data File: /chem/5972hp59.i/DF090320A59.b/0903085-04R359.d

Date: 20-MAR-2009 14:17

Client ID: S-4

Instrument: 5972hp59.i

Sample Info: 0903085-04;JAO

Purge Volume: 5.0

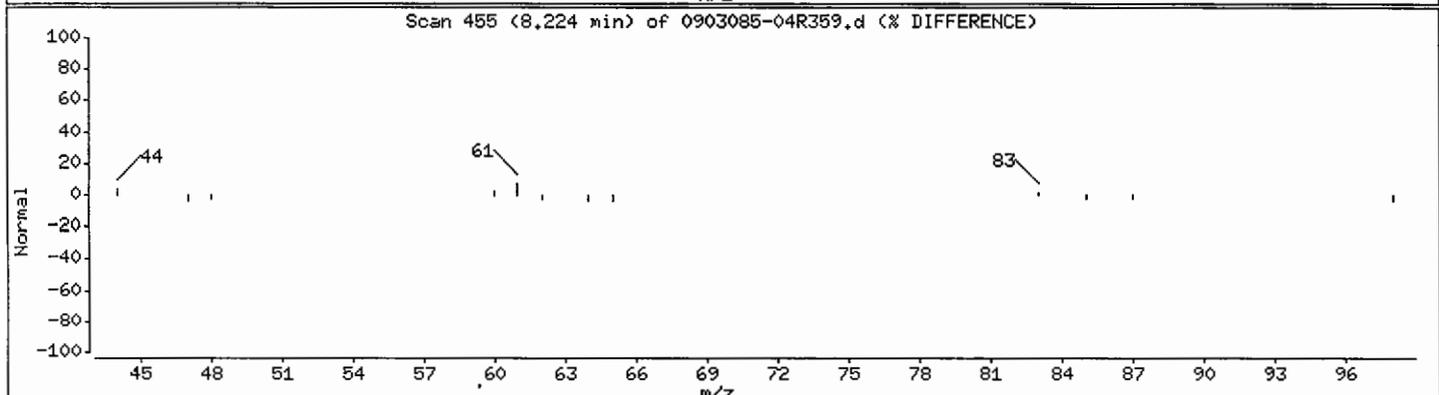
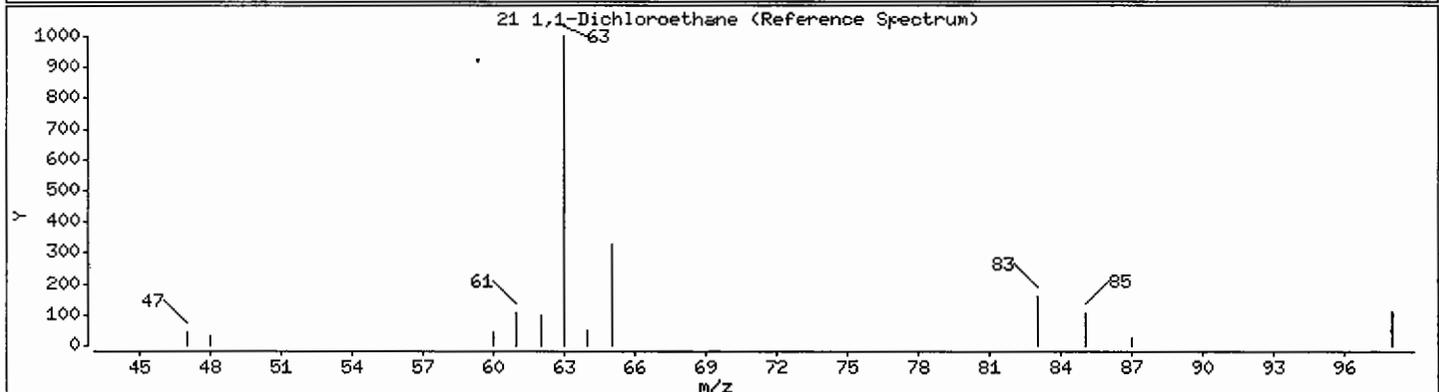
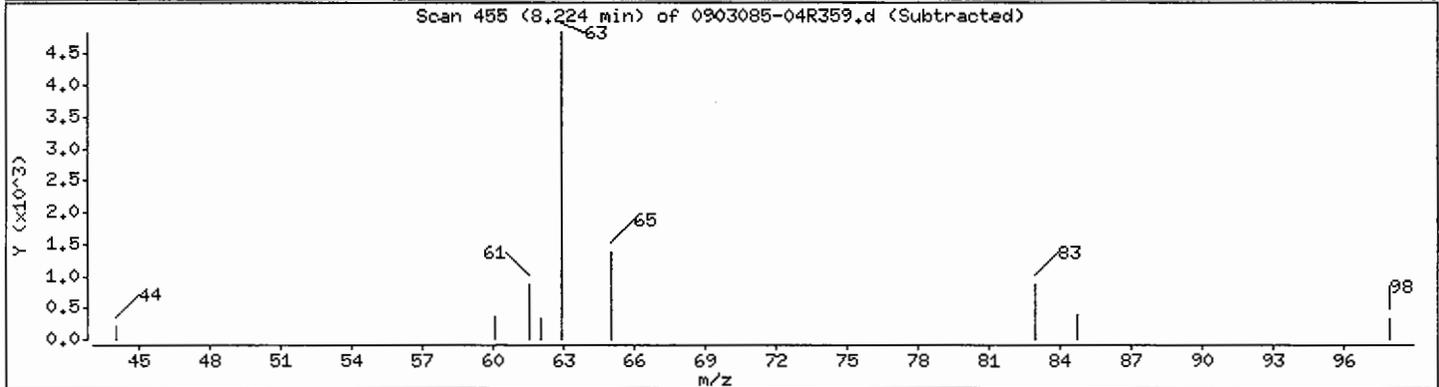
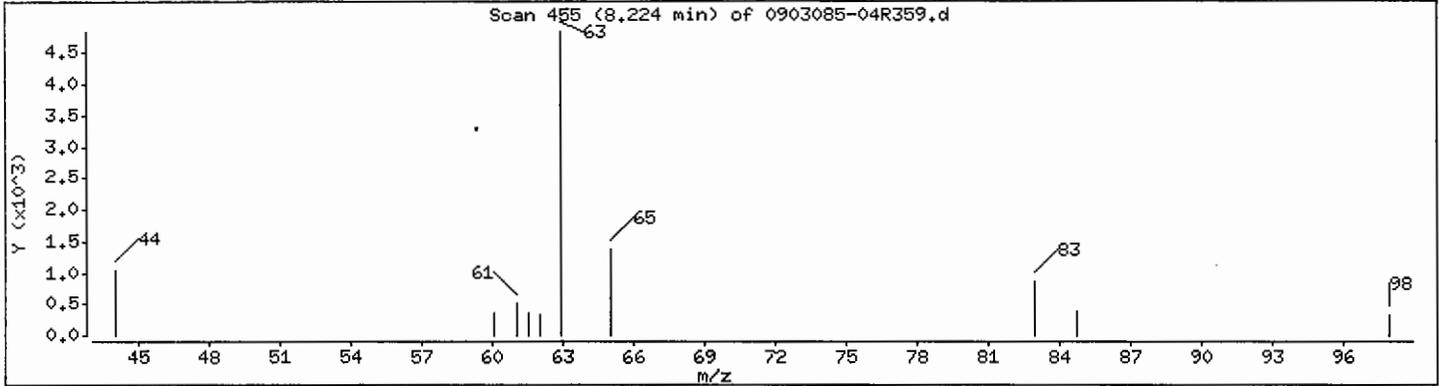
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

21 1,1-Dichloroethane

Concentration: 4 ug/L



Data File: /chem/5972hp59.i/DF090320A59,b/0903085-04R359.d

Date : 20-MAR-2009 14:17

Client ID: S-4

Instrument: 5972hp59.i

Sample Info: 0903085-04;JAO

Purge Volume: 5.0

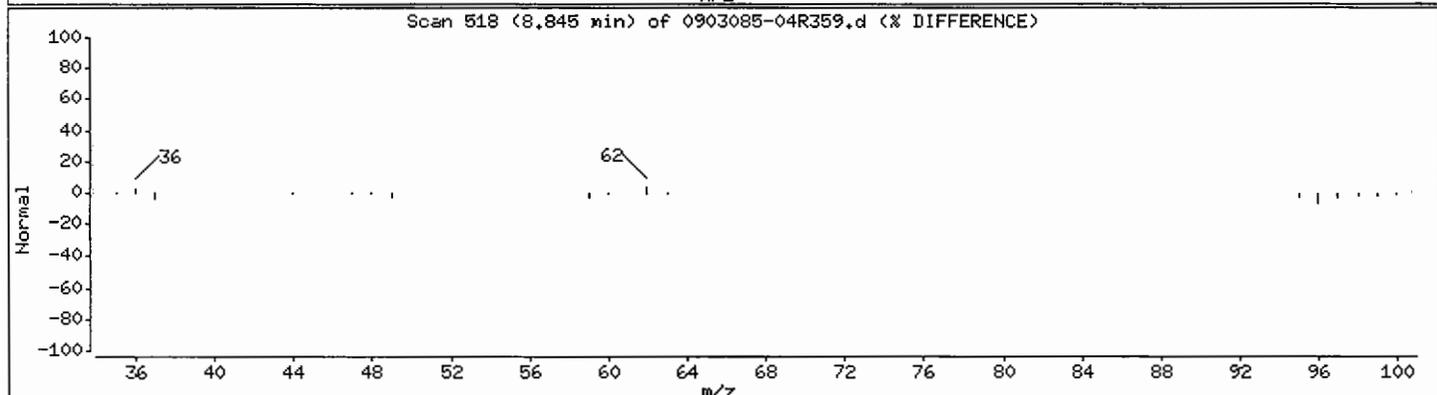
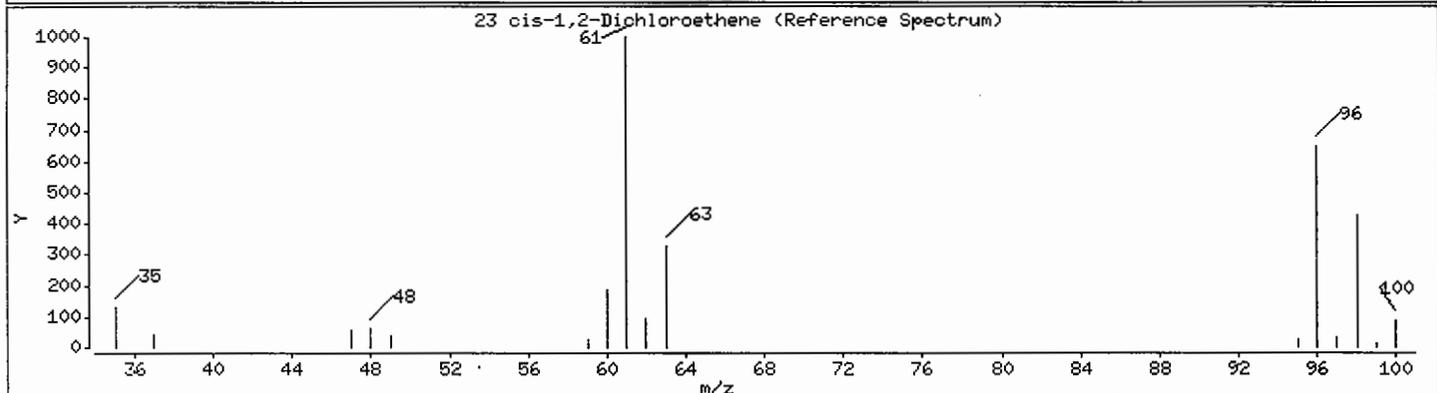
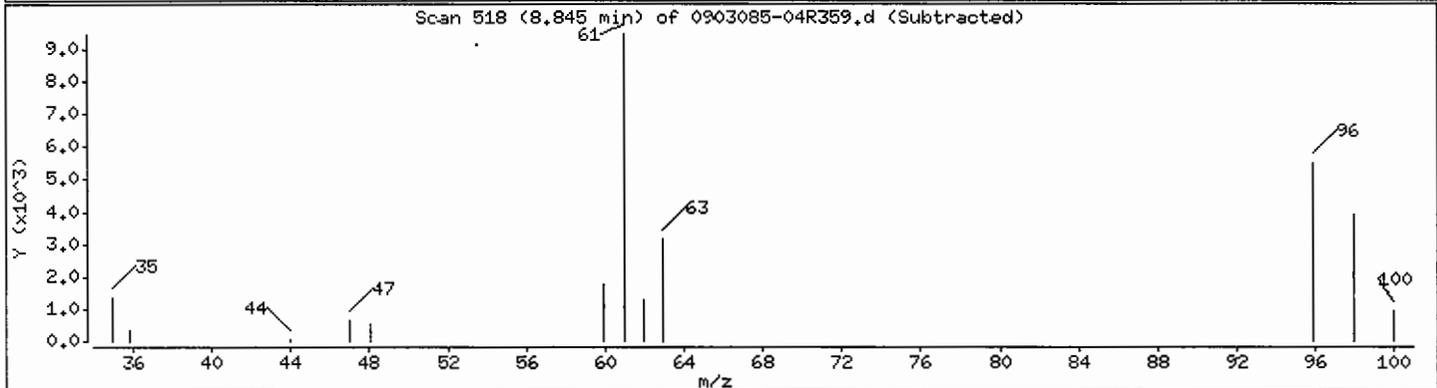
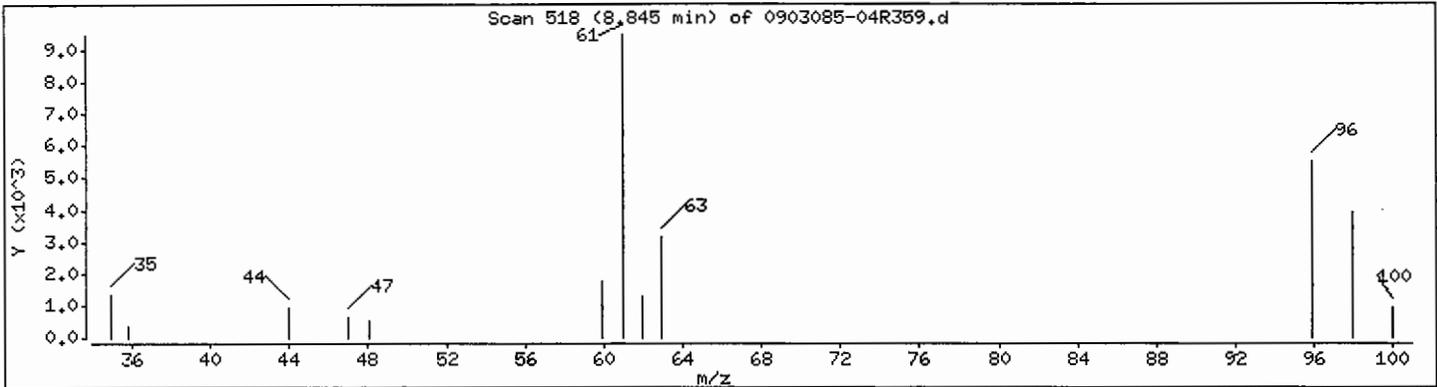
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

23 cis-1,2-Dichloroethene

Concentration: 9 ug/L



Data File: /chem/5972hp59.i/DF090320A59.b/0903085-04R359.d
Report Date: 23-Mar-2009 19:10

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/0903085-04R359.d
Lab Smp Id: 0903085-04 Client Smp ID: S-4
Inj Date : 20-MAR-2009 14:17
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 0903085-04:JAO
Misc Info : S-4
Comment :
Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
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| S-5 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-05

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-05R259

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

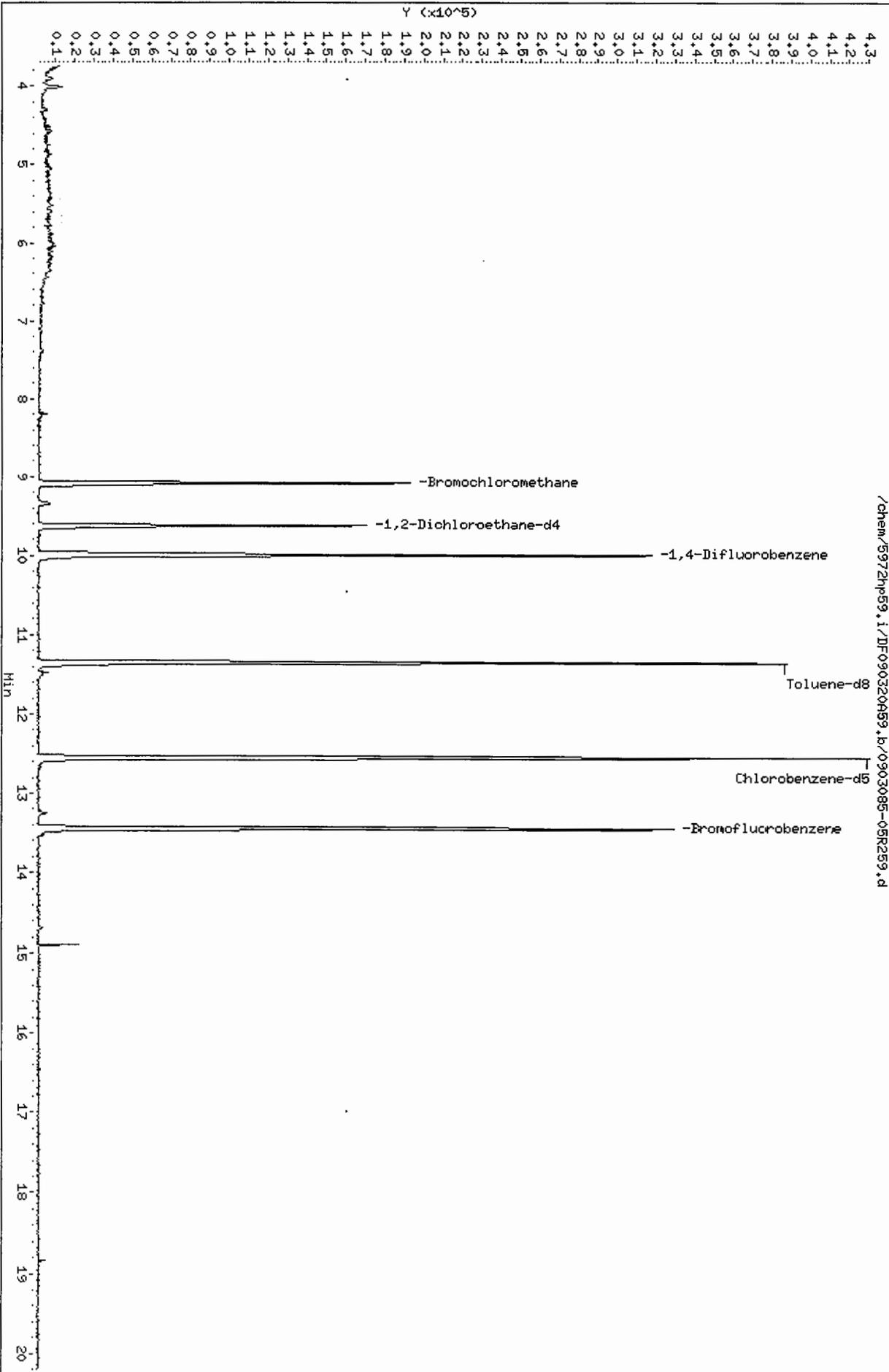
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
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Data File: /chem/5972hp59.i/DF090320A59.b/0903085-05R259.d
Date : 20-MAR-2009 13:38
Client ID: S-5
Sample Info: 0903085-05;JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/0903085-05R259.d
 Lab Smp Id: 0903085-05 Client Smp ID: S-5
 Inj Date : 20-MAR-2009 13:38
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 0903085-05:JAO
 Misc Info : S-5
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|-----------------|---------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.091 | 9.086 | (1.000) | 43277 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 9.998 | 9.993 | (1.000) | 241222 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.551 | 12.546 | (1.000) | 230004 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.623 | 9.618 | (1.059) | 141062 | 255.198 | 51 |
| \$ 5 Toluene-d8 | 98 | 11.348 | 11.343 | (0.904) | 285674 | 261.099 | 52 |
| \$ 6 Bromofluorobenzene | 95 | 13.438 | 13.443 | (1.071) | 131092 | 240.860 | 48 |
| 7 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | 64 | Compound Not Detected. | | | | | |
| 14 1,1-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/0903085-05R259.d
Report Date: 23-Mar-2009 19:10

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-----------|----|--------|--------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | | | | | | |
| 29 Benzene | 78 | | | | | | |
| 30 Trichloroethene | 130 | | | | | | |
| 31 1,2-Dichloropropane | 63 | | | | | | |
| 40 Tetrachloroethene | 164 | | | | | | |
| 43 Chlorobenzene | 112 | | | | | | |
| 52 1,4-Dichlorobenzene | 146 | | | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/0903085-05R259.d
Report Date: 23-Mar-2009 19:10

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/0903085-05R259.d
Lab Smp Id: 0903085-05 Client Smp ID: S-5
Inj Date : 20-MAR-2009 13:38
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 0903085-05:JAO
Misc Info : S-5
Comment :
Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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| S-6 |
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Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-06R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

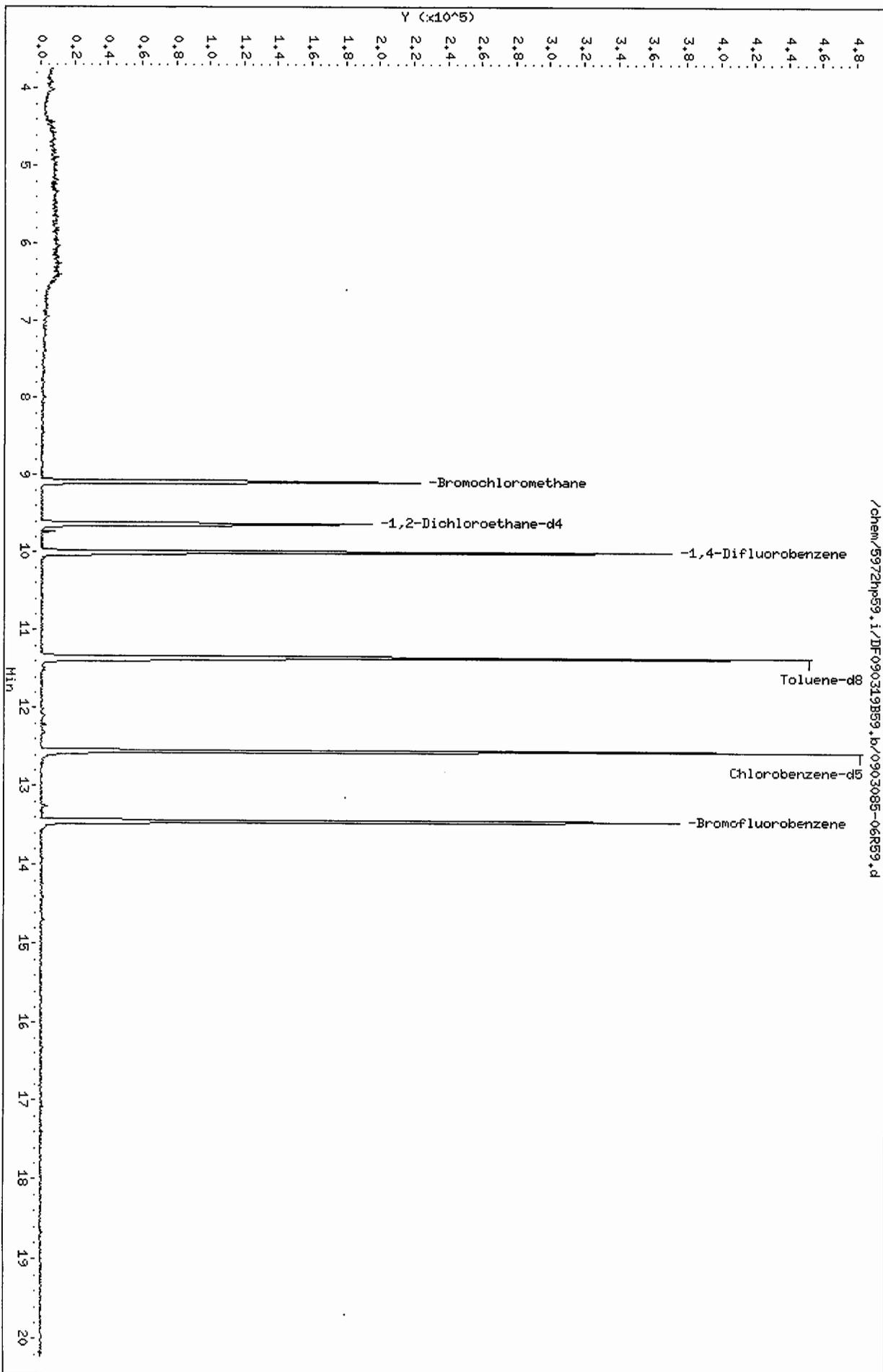
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
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Data File: /chem/5972hp59.i/DF090319B59.b/0903085-06R59.d
Date: 20-MAR-2009 04:22
Client ID: S-6
Sample Info: 0903085-06:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090319B59.b/0903085-06R59.d
 Report Date: 20-Mar-2009 17:31

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/0903085-06R59.d
 Lab Smp Id: 0903085-06 Client Smp ID: S-6
 Inj Date : 20-MAR-2009 04:22
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 0903085-06:TD
 Misc Info : S-6
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.090 | 9.087 | (1.000) | 48061 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 9.997 | 9.994 | (1.000) | 260259 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.550 | 12.547 | (1.000) | 240535 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.632 | 9.629 | (1.060) | 157362 | 283.045 | 57 |
| \$ 5 Toluene-d8 | 98 | 11.347 | 11.344 | (0.904) | 309846 | 262.996 | 53 |
| ^ 6 Bromofluorobenzene | 95 | 13.447 | 13.444 | (1.071) | 138351 | 232.818 | 47 |
| 7 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | 64 | Compound Not Detected. | | | | | |
| 14 1,1-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |

Data File: /chem/5972hp59.i/DF090319B59.b/0903085-06R59.d
Report Date: 20-Mar-2009 17:31

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-------------------|----|--------|--------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | | | | | | |
| 29 Benzene | 78 | | | | | | |
| 30 Trichloroethene | 130 | | | | | | |
| 31 1,2-Dichloropropane | 63 | | | | | | |
| 40 Tetrachloroethene | 164 | | | | | | |
| 43 Chlorobenzene | 112 | | | | | | |
| 52 1,4-Dichlorobenzene | 146 | | | | | | |

Data File: /chem/5972hp59.i/DF090319B59.b/0903085-06R59.d
Report Date: 20-Mar-2009 17:31

CompuChem

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Data file : /chem/5972hp59.i/DF090319B59.b/0903085-06R59.d
Lab Smp Id: 0903085-06 Client Smp ID: S-6
Inj Date : 20-MAR-2009 04:22
Operator : TD Inst ID: 5972hp59.i
Smp Info : 0903085-06:TD
Misc Info : S-6
Comment :
Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903085-07

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903085-07R59

Level: (low/med) LOW

Date Received: 03/13/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

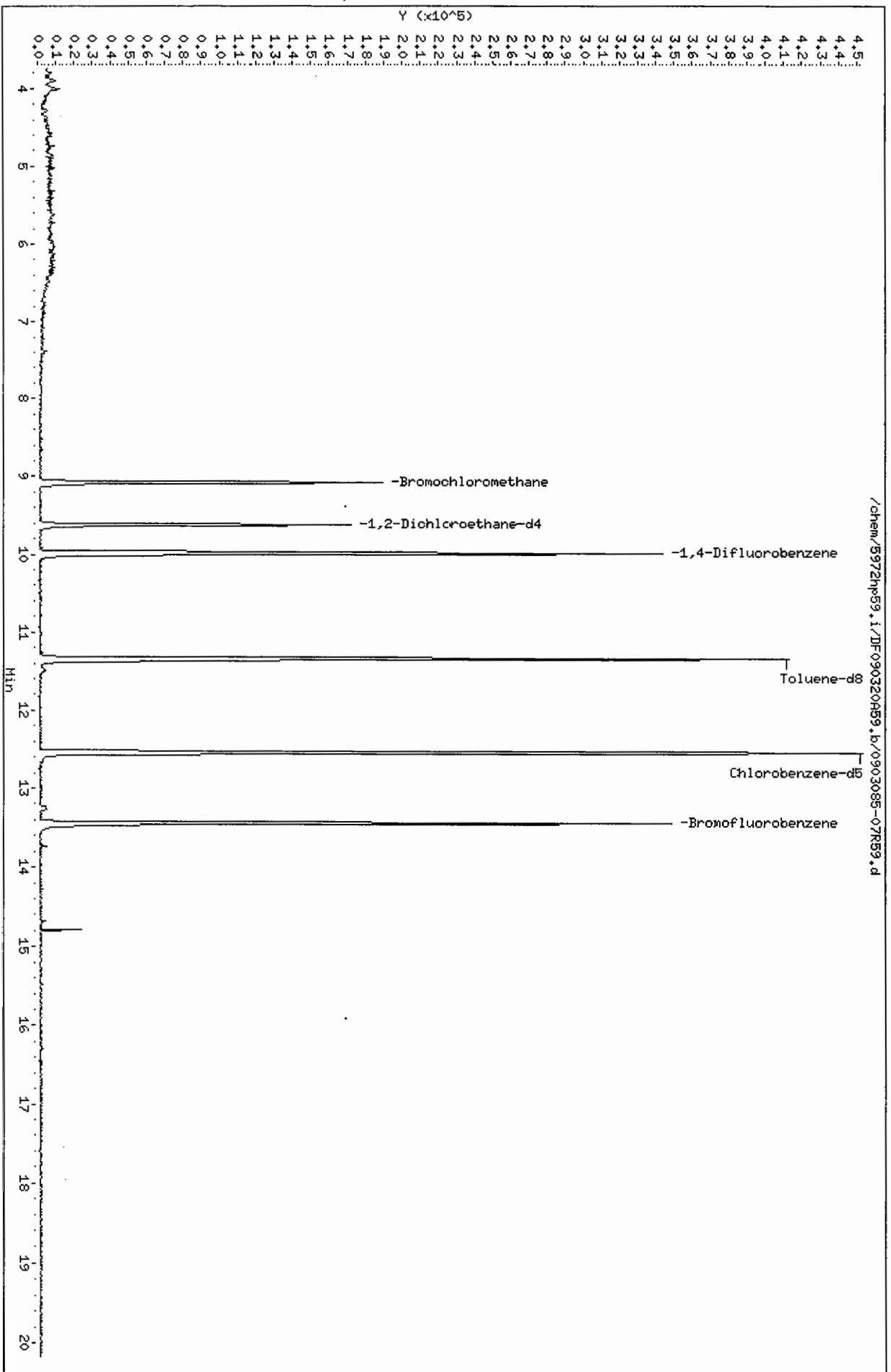
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

Data File: /chem/5972hp59.1/DF090320H59.b/0903085-07R59.d
Date : 20-MAR-2009 12:34
Client ID: TRIP BLANK
Sample Info: 0903085-07.JA0
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.1
Operator: JA0
Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090320A59.b/0903085-07R59.d
 Report Date: 23-Mar-2009 19:10

CompuChem

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Data file : /chem/5972hp59.i/DF090320A59.b/0903085-07R59.d
 Lab Smp Id: 0903085-07 Client Smp ID: TRIP BLANK
 Inj Date : 20-MAR-2009 12:34
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 0903085-07:JAO
 Misc Info : TRIP BLANK
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|-----------------|---------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.086 | 9.086 | (1.000) | 45195 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 9.992 | 9.993 | (1.000) | 259588 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.546 | 12.546 | (1.000) | 229576 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.628 | 9.618 | (1.060) | 136067 | 235.715 | 47 |
| 5 Toluene-d8 | 98 | 11.343 | 11.343 | (0.904) | 294206 | 269.398 | 54 |
| 6 Bromofluorobenzene | 95 | 13.443 | 13.443 | (1.071) | 133165 | 245.125 | 49 |
| 7 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | 64 | Compound Not Detected. | | | | | |
| 14 1,1-Dichloroethane | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/0903085-07R59.d
Report Date: 23-Mar-2009 19:10

| Compounds | QUANT SIG | RT | EXP | RT | REL | RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-----------|----|-------|-------|-------|-------|------------------------|----------------|---------|
| | | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | | (ng) | (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 28 1,2-Dichloroethane | 62 | | | | | | Compound Not Detected. | | |
| 29 Benzene | 78 | | | | | | Compound Not Detected. | | |
| 30 Trichloroethene | 130 | | | | | | Compound Not Detected. | | |
| 31 1,2-Dichloropropane | 63 | | | | | | Compound Not Detected. | | |
| 40 Tetrachloroethene | 164 | | | | | | Compound Not Detected. | | |
| 43 Chlorobenzene | 112 | | | | | | Compound Not Detected. | | |
| 52 1,4-Dichlorobenzene | 146 | | | | | | Compound Not Detected. | | |

Data File: /chem/5972hp59.i/DF090320A59.b/0903085-07R59.d
Report Date: 23-Mar-2009 19:10

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/0903085-07R59.d
Lab Smp Id: 0903085-07 Client Smp ID: TRIP BLANK
Inj Date : 20-MAR-2009 12:34
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 0903085-07:JAO
Misc Info : TRIP BLANK .
Comment :
Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

3. Standards Data

- a. Initial Calibration Data (Form VI, VOA-1, VOA-2)
- b. Continuing Calibration Data (Form VII, VOA-1, VOA-2)

a. Initial Calibration Data (Form VI, VOA-1, VOA-2)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Data shall be included for initial calibrations pertaining to samples in the SDG, regardless of when it was performed and for which SDG.

- (1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.
- (2) EICPs displaying each manual integration.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 Instrument ID: 5975HPMS91 Calibration Date(s): 03/17/09 03/17/09
 Heated Purge: (Y/N) N Calibration Times: 1231 1430
 GC Column: SPB-624 ID: 0.32(mm)

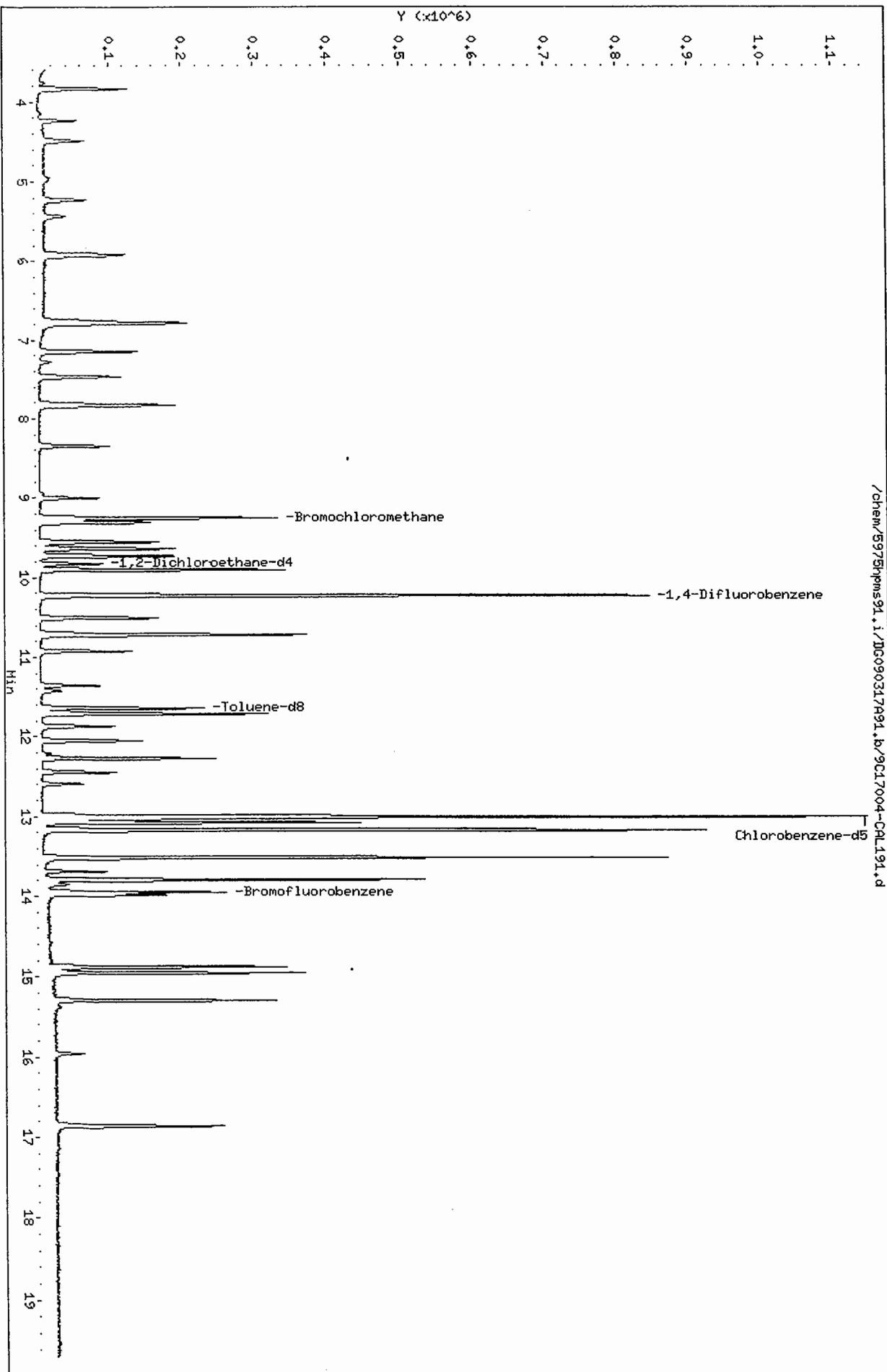
LAB FILE ID: RRF10 = 9C17004-CAL19 RRF20 = 9C17004-CAL29
 RRF50 = 9C17004-CAL39 RRF100= 9C17004-CAL49 RRF200= 9C17004-CAL59

| COMPOUND | RRF10 | RRF20 | RRF50 | RRF100 | RRF200 | RRF | % RSD |
|--------------------------|-------|-------|-------|--------|--------|-------|-------|
| Dichlorodifluoromethane | 8.397 | 7.438 | 7.375 | 7.036 | 6.778 | 7.405 | 8.3 |
| Vinyl Chloride * | 4.073 | 3.620 | 3.669 | 3.474 | 3.365 | 3.640 | 7.4* |
| Chloroethane | 2.030 | 1.813 | 1.785 | 1.704 | 1.656 | 1.798 | 8.0 |
| 1,1-Dichloroethene * | 3.124 | 2.580 | 2.067 | 2.431 | 2.470 | 2.534 | 15.1* |
| Methylene Chloride | 3.236 | 2.836 | 2.486 | 2.602 | 2.630 | 2.758 | 10.7 |
| trans-1,2-Dichloroethene | 3.197 | 2.900 | 2.729 | 3.101 | 3.135 | 3.012 | 6.4 |
| 1,1-Dichloroethane * | 5.315 | 4.642 | 4.252 | 4.851 | 5.039 | 4.820 | 8.4* |
| cis-1,2-Dichloroethene | 2.033 | 2.066 | 2.279 | 2.859 | 3.065 | 2.460 | 19.2 |
| 1,1,1-Trichloroethane * | 1.043 | 0.889 | 0.764 | 0.908 | 0.938 | 0.908 | 11.0* |
| Benzene * | 1.809 | 1.661 | 1.572 | 1.768 | 1.754 | 1.713 | 5.6* |
| 1,2-Dichloroethane * | 4.626 | 4.198 | 3.866 | 4.110 | 4.211 | 4.202 | 6.5* |
| Trichloroethene * | 0.449 | 0.397 | 0.373 | 0.475 | 0.505 | 0.440 | 12.4* |
| 1,2-Dichloropropane | 0.456 | 0.398 | 0.371 | 0.402 | 0.392 | 0.404 | 7.9 |
| Tetrachloroethene * | 0.488 | 0.421 | 0.395 | 0.471 | 0.474 | 0.450 | 8.8* |
| Chlorobenzene * | 1.631 | 1.384 | 1.284 | 1.383 | 1.383 | 1.413 | 9.1* |
| 1,4-Dichlorobenzene * | 1.318 | 1.182 | 1.114 | 1.248 | 1.287 | 1.230 | 6.7* |
| Toluene-d8 | 1.402 | 1.491 | 1.360 | 1.638 | 1.686 | 1.515 | 9.4 |
| Bromofluorobenzene * | 0.731 | 0.716 | 0.625 | 0.720 | 0.754 | 0.709 | 7.0* |
| 1,2-Dichloroethane-d4 | 3.542 | 3.413 | 2.712 | 3.055 | 3.144 | 3.173 | 10.2 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

Data File: /chem/5975hpms91.i/D0090317A91.b/9C17004-CAL191.d
Date: 17-MAR-2009 12:58
Client ID: VSTD010GM
Sample Info: 9C17002-CAL1:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL191.d
 Lab Smp Id: 9C17002-CAL1 Client Smp ID: VSTD010GW
 Inj Date : 17-MAR-2009 12:58
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 9C17002-CAL1:JAO
 Misc Info : VSTD010GW
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:17 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 12:58 Cal File: 9C17004-CAL191.d
 Als bottle: 5 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | | 128 | 9.250 | 9.250 | (1.000) | 90009 | 250.000 | |
| * 2 1,4-Difluorobenzene | | 114 | 10.226 | 10.226 | (1.000) | 566903 | 250.000 | |
| * 3 Chlorobenzene-d5 | | 117 | 12.993 | 12.993 | (1.000) | 560404 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | | 65 | 9.823 | 9.823 | (1.062) | 63754 | 50.0000 | 50 |
| \$ 5 Toluene-d8 | | 98 | 11.640 | 11.640 | (0.896) | 157119 | 50.0000 | 50 |
| \$ 6 Bromofluorobenzene | | 95 | 13.945 | 13.945 | (1.073) | 81955 | 50.0000 | 50 (M) |
| 7 Dichlorodifluoromethane | | 85 | 3.837 | 3.837 | (0.415) | 151156 | 50.0000 | 50 |
| 8 Chloromethane | | 50 | 4.233 | 4.233 | (0.458) | 61778 | 50.0000 | 50 |
| 9 Vinyl Chloride | | 62 | 4.489 | 4.489 | (0.485) | 73317 | 50.0000 | 50 |
| 10 Bromomethane | | 94 | 5.227 | 5.227 | (0.565) | 51382 | 50.0000 | 50 |
| 11 Chloroethane | | 64 | 5.434 | 5.434 | (0.587) | 36535 | 50.0000 | 50 |
| 12 Trichlorofluoromethane | | 101 | 5.916 | 5.916 | (0.639) | 149397 | 50.0000 | 50 |
| 13 1,1,2-trichloro-1,2,2-trifluo | | 101 | 6.769 | 6.769 | (0.732) | 70421 | 50.0000 | 50 |
| 14 1,1-Dichloroethene | | 96 | 6.787 | 6.787 | (0.734) | 56243 | 50.0000 | 50 |
| 15 Acetone | | 43 | 6.812 | 6.812 | (0.736) | 15722 | 50.0000 | 50 |

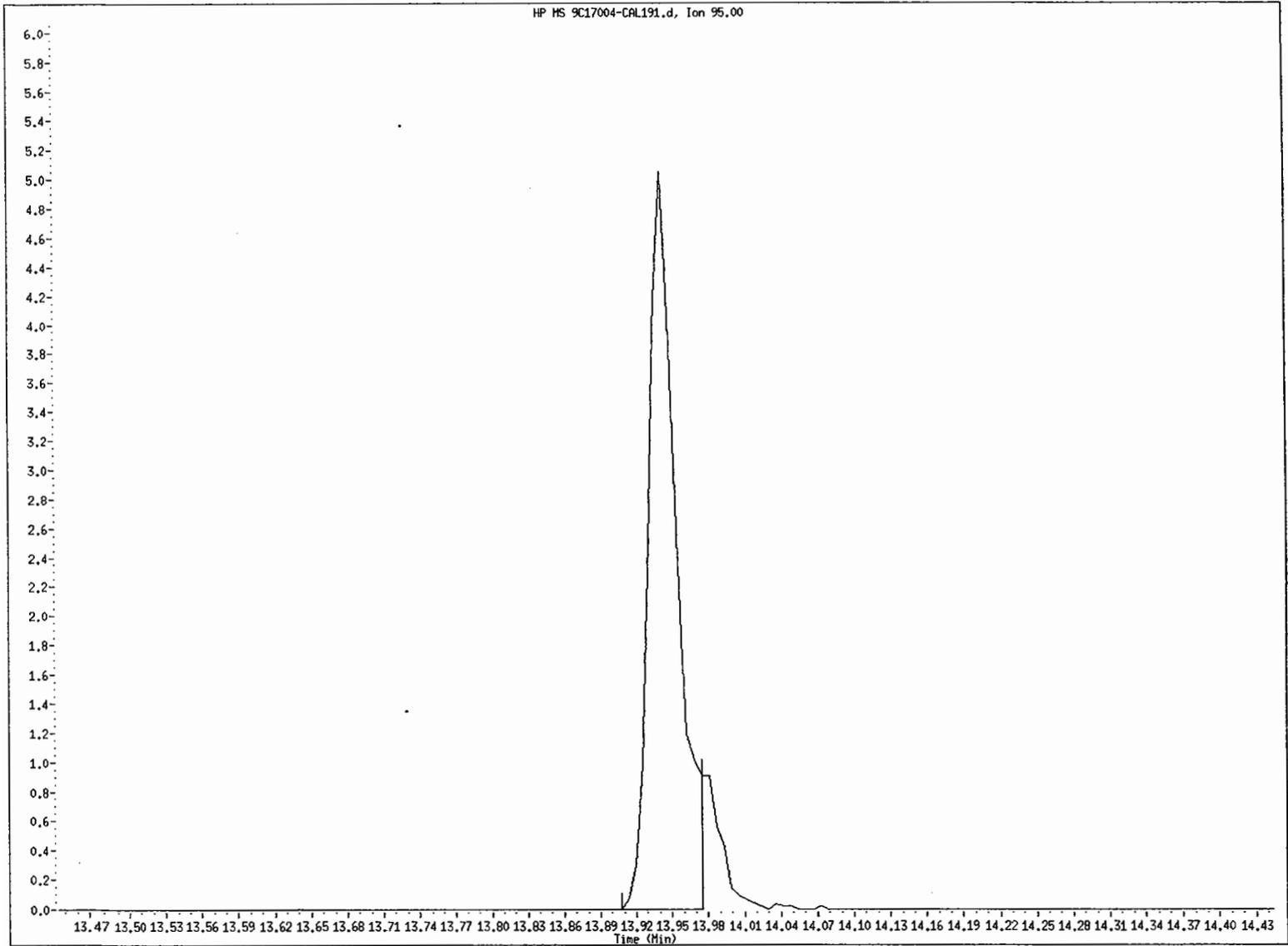
2L
3/18M

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 16 Carbon Disulfide | 76 | 7.147 | 7.147 | (0.773) | 219585 | 50.0000 | 50 |
| 17 Methyl Acetate | 43 | 7.287 | 7.287 | (0.788) | 21300 | 50.0000 | 50 |
| 18 Methylene Chloride | 84 | 7.470 | 7.470 | (0.808) | 58251 | 50.0000 | 50 |
| 19 Methyl tert-Butyl Ether | 73 | 7.818 | 7.818 | (0.845) | 68350 | 50.0000 | 50 |
| 20 trans-1,2-Dichloroethene | 96 | 7.830 | 7.830 | (0.846) | 57552 | 50.0000 | 50 |
| 21 1,1-Dichloroethane | 63 | 8.342 | 8.342 | (0.902) | 95680 | 50.0000 | 50 |
| 22 2-Butanone | 43 | 8.939 | 8.939 | (0.966) | 7040 | 50.0000 | 50 |
| 23 cis-1,2-Dichloroethene | 96 | 9.000 | 9.000 | (0.973) | 36594 | 50.0000 | 50 |
| 24 Chloroform | 83 | 9.299 | 9.299 | (1.005) | 121533 | 50.0000 | 50 |
| 25 1,1,1-Trichloroethane | 97 | 9.549 | 9.549 | (0.934) | 118242 | 50.0000 | 50 |
| 26 Cyclohexane | 56 | 9.634 | 9.634 | (0.942) | 62378 | 50.0000 | 50 |
| 27 Carbon Tetrachloride | 117 | 9.726 | 9.726 | (0.951) | 125714 | 50.0000 | 50 |
| 28 1,2-Dichloroethane | 62 | 9.897 | 9.897 | (1.070) | 83280 | 50.0000 | 50 |
| 29 Benzene | 78 | 9.897 | 9.897 | (0.968) | 205138 | 50.0000 | 50 |
| 30 Trichloroethene | 130 | 10.506 | 10.506 | (1.027) | 50887 | 50.0000 | 50 |
| 31 1,2-Dichloropropane | 63 | 10.701 | 10.701 | (1.046) | 51716 | 50.0000 | 50 |
| 32 Methylcyclohexane | 83 | 10.720 | 10.720 | (1.048) | 91743 | 50.0000 | 50 |
| 33 Bromodichloromethane | 83 | 10.921 | 10.921 | (1.068) | 82330 | 50.0000 | 50 |
| 34 cis-1,3-Dichloropropene | 75 | 11.354 | 11.354 | (1.110) | 48364 | 50.0000 | 50 |
| 35 4-Methyl-2-Pentanone | 43 | 11.421 | 11.421 | (0.879) | 19874 | 50.0000 | 50 |
| 36 Toluene | 91 | 11.707 | 11.707 | (0.901) | 234119 | 50.0000 | 50 |
| 37 trans-1,3-Dichloropropene | 75 | 11.866 | 11.866 | (1.160) | 58601 | 50.0000 | 50 |
| 38 1,1,2-Trichloroethane | 97 | 12.049 | 12.049 | (1.178) | 43634 | 50.0000 | 50 |
| 39 2-Hexanone | 43 | 12.213 | 12.213 | (0.940) | 10995 | 50.0000 | 50 |
| 40 Tetrachloroethene | 164 | 12.268 | 12.268 | (0.944) | 54691 | 50.0000 | 50 |
| 41 Dibromochloromethane | 129 | 12.445 | 12.445 | (1.217) | 54419 | 50.0000 | 50 |
| 42 1,2-Dibromoethane | 107 | 12.591 | 12.591 | (0.969) | 35575 | 50.0000 | 50 |
| 43 Chlorobenzene | 112 | 13.018 | 13.018 | (1.002) | 182791 | 50.0000 | 50 |
| 44 Ethylbenzene | 106 | 13.073 | 13.073 | (1.006) | 89373 | 50.0000 | 50 |
| 45 m,p-Xylene | 106 | 13.164 | 13.164 | (1.013) | 245408 | 100.0000 | 100 |
| 46 o-Xylene | 106 | 13.506 | 13.506 | (1.039) | 108808 | 50.0000 | 50 |
| 47 Styrene | 104 | 13.506 | 13.506 | (1.039) | 161296 | 50.0000 | 50 |
| 48 Bromoform | 173 | 13.682 | 13.682 | (1.338) | 36678 | 50.0000 | 50 |
| 49 Isopropylbenzene | 105 | 13.786 | 13.786 | (1.061) | 277816 | 50.0000 | 50 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.981 | 13.981 | (1.076) | 69391 | 50.0000 | 50 |
| 51 1,3-Dichlorobenzene | 146 | 14.877 | 14.877 | (1.145) | 137439 | 50.0000 | 50 |
| 52 1,4-Dichlorobenzene | 146 | 14.944 | 14.944 | (1.150) | 147730 | 50.0000 | 50 |
| 53 1,2-Dichlorobenzene | 146 | 15.286 | 15.286 | (1.176) | 130104 | 50.0000 | 50 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.956 | 15.956 | (1.228) | 13447 | 50.0000 | 50 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.852 | 16.852 | (1.297) | 85819 | 50.0000 | 50 |
| M 56 Xylene (Total) | 106 | | | | 354216 | 50.0000 | 160 |

QC Flag Legend

M - Compound response manually integrated.

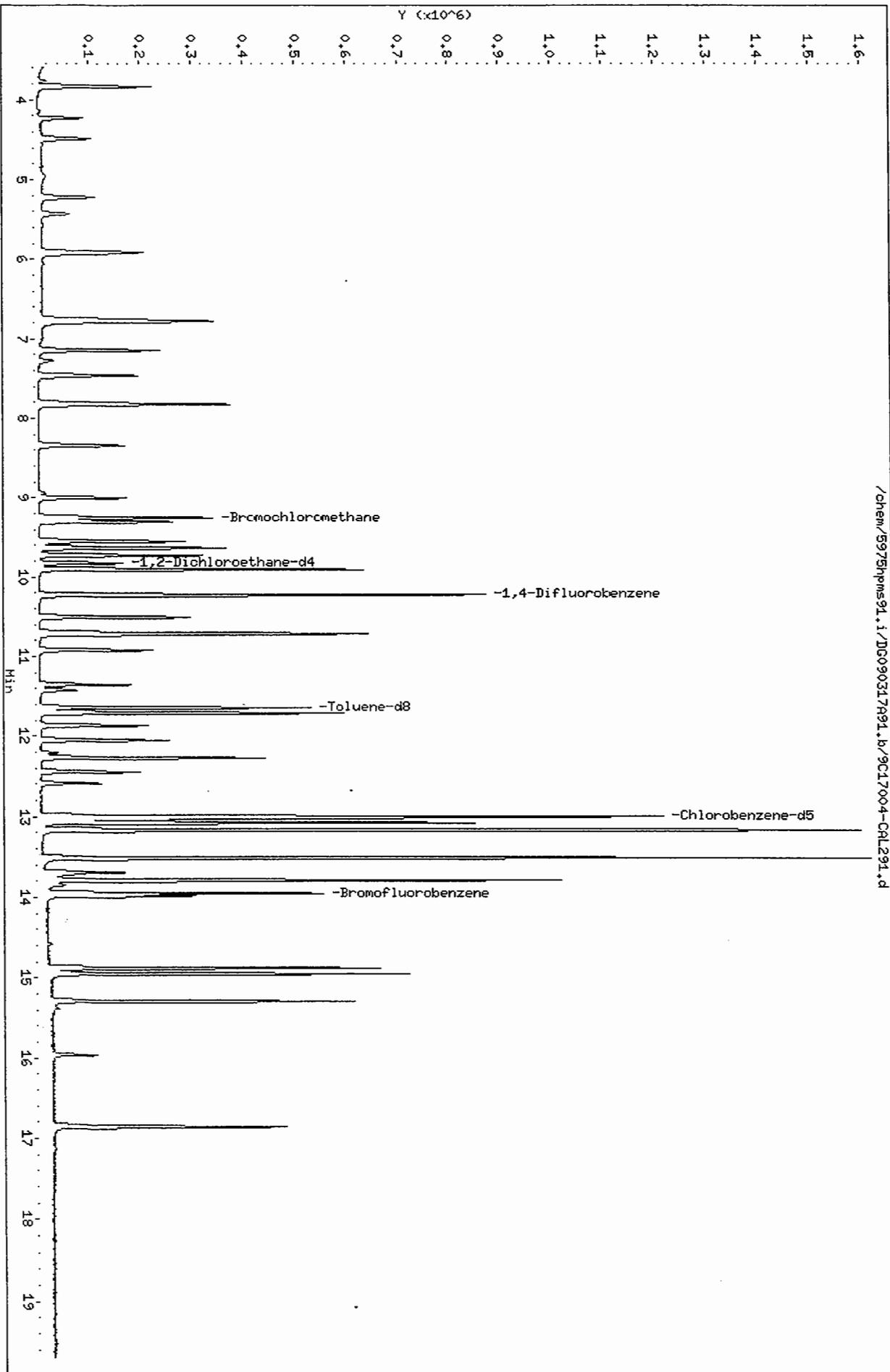
Bromofluorobenzene CAS Number 460-00-4 Area = 81955 Manually integrated



File name: /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL191.d
Client ID: VSTD010GW
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2009 12:58
Retention Time: 13.94
Operator ID: JAO

Data File: /chem/5975hpms91.i/DG090317R91.b/9C17004-CAL291.d
Date: 17-MAR-2009 12:31
Client ID: VSTD020GM
Sample Info: 9C17004-CAL2:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL291.d
 Lab Smp Id: 9C17004-CAL2 Client Smp ID: VSTD020GW
 Inj Date : 17-MAR-2009 12:31
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 9C17004-CAL2:JAO
 Misc Info : VSTD020GW
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:17 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 12:31 Cal File: 9C17004-CAL291.d
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

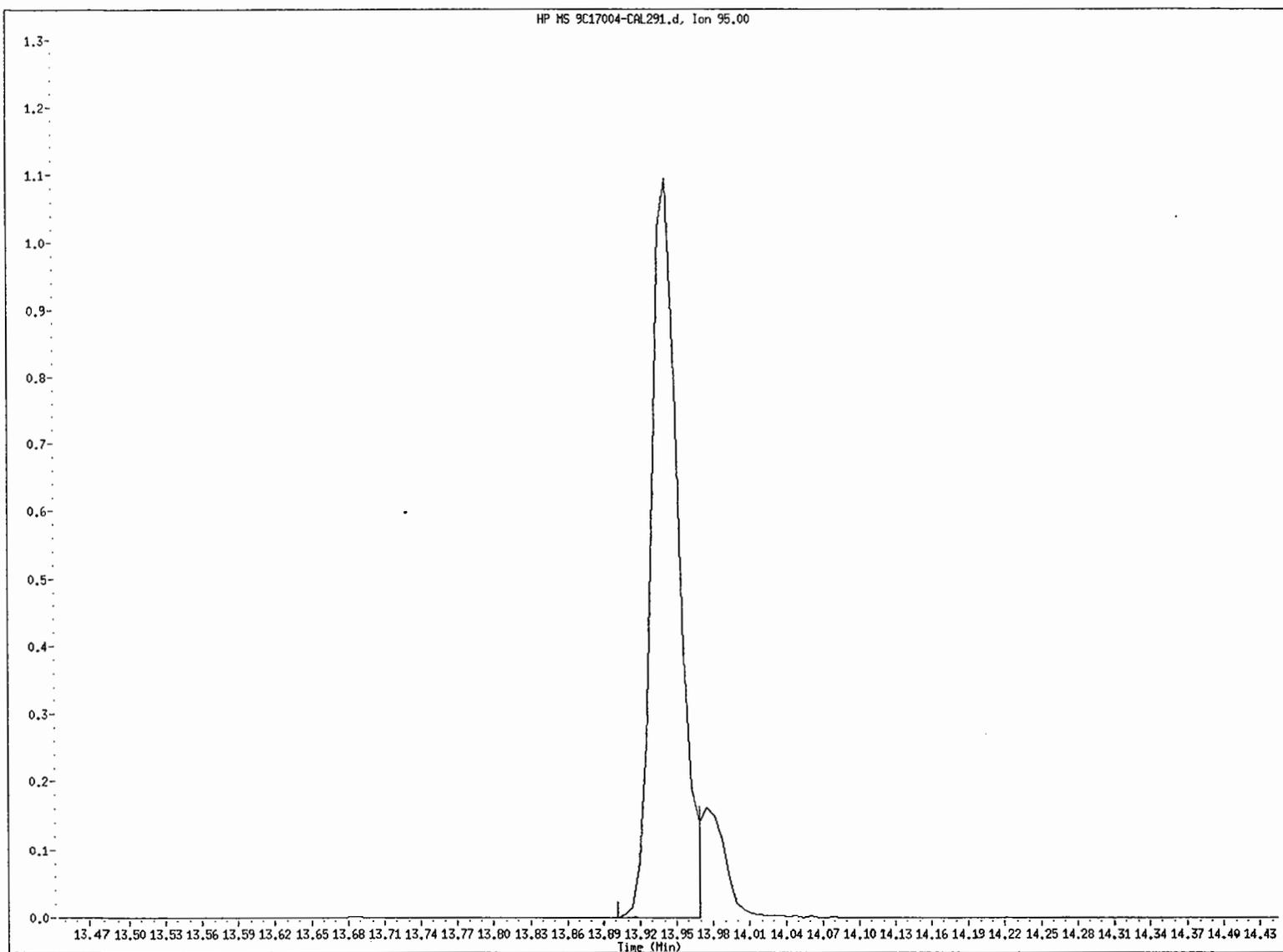
| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | 9.250 | 9.250 | (1.000) | 90539 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 10.220 | 10.220 | (1.000) | 579296 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.994 | 12.994 | (1.000) | 588484 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.824 | 9.824 | (1.062) | 123616 | 100.000 | 98 |
| \$ 5 Toluene-d8 | 98 | 11.634 | 11.634 | (0.895) | 350986 | 100.000 | 100 |
| ^ 6 Bromofluorobenzene | 95 | 13.945 | 13.945 | (1.073) | 168553 | 100.000 | 99 (M) |
| 7 Dichlorodifluoromethane | 85 | 3.831 | 3.831 | (0.414) | 269375 | 100.000 | 94 |
| 8 Chloromethane | 50 | 4.233 | 4.233 | (0.458) | 106214 | 100.000 | 92 |
| 9 Vinyl Chloride | 62 | 4.489 | 4.489 | (0.485) | 131091 | 100.000 | 94 |
| 10 Bromomethane | 94 | 5.221 | 5.221 | (0.564) | 91547 | 100.000 | 94 |
| 11 Chloroethane | 64 | 5.434 | 5.434 | (0.587) | 65651 | 100.000 | 94 |
| 12 Trichlorofluoromethane | 101 | 5.916 | 5.916 | (0.639) | 260926 | 100.000 | 93 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | 6.763 | 6.763 | (0.731) | 115709 | 100.000 | 90 |
| 14 1,1-Dichloroethene | 96 | 6.781 | 6.781 | (0.733) | 93428 | 100.000 | 90 |
| 15 Acetone | 43 | 6.800 | 6.800 | (0.735) | 26126 | 100.000 | 90 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 16 Carbon Disulfide | 76 | 7.141 | 7.141 | (0.772) | 385393 | 100.000 | 93 |
| 17 Methyl Acetate | 43 | 7.281 | 7.281 | (0.787) | 41343 | 100.000 | 98 |
| 18 Methylene Chloride | 84 | 7.464 | 7.464 | (0.807) | 102723 | 100.000 | 93 |
| 19 Methyl tert-Butyl Ether | 73 | 7.818 | 7.818 | (0.845) | 153871 | 100.000 | 110 |
| 20 trans-1,2-Dichloroethene | 96 | 7.824 | 7.824 | (0.846) | 105036 | 100.000 | 95 |
| 21 1,1-Dichloroethane | 63 | 8.336 | 8.336 | (0.901) | 168116 | 100.000 | 93 |
| 22 2-Butanone | 43 | 8.940 | 8.940 | (0.966) | 15512 | 100.000 | 100 |
| 23 cis-1,2-Dichloroethene | 96 | 9.001 | 9.001 | (0.973) | 74810 | 100.000 | 100 |
| 24 Chloroform | 83 | 9.299 | 9.299 | (1.005) | 206547 | 100.000 | 92 |
| 25 1,1,1-Trichloroethane | 97 | 9.543 | 9.543 | (0.934) | 205914 | 100.000 | 92 |
| 26 Cyclohexane | 56 | 9.628 | 9.628 | (0.942) | 131928 | 100.000 | 100 |
| 27 Carbon Tetrachloride | 117 | 9.720 | 9.720 | (0.951) | 212828 | 100.000 | 91 |
| 28 1,2-Dichloroethane | 62 | 9.897 | 9.897 | (1.070) | 152032 | 100.000 | 95 |
| 29 Benzene | 78 | 9.897 | 9.897 | (0.968) | 384924 | 100.000 | 96 |
| 30 Trichloroethene | 130 | 10.506 | 10.506 | (1.028) | 91908 | 100.000 | 94 |
| 31 1,2-Dichloropropane | 63 | 10.701 | 10.701 | (1.047) | 92193 | 100.000 | 93 |
| 32 Methylcyclohexane | 83 | 10.714 | 10.714 | (1.048) | 178610 | 100.000 | 98 |
| 33 Bromodichloromethane | 83 | 10.915 | 10.915 | (1.068) | 143841 | 100.000 | 92 |
| 34 cis-1,3-Dichloropropene | 75 | 11.348 | 11.348 | (1.110) | 102521 | 100.000 | 100 |
| 35 4-Methyl-2-Pentanone | 43 | 11.421 | 11.421 | (0.879) | 45340 | 100.000 | 100 |
| 36 Toluene | 91 | 11.701 | 11.701 | (0.901) | 453419 | 100.000 | 96 |
| 37 trans-1,3-Dichloropropene | 75 | 11.866 | 11.866 | (1.161) | 119620 | 100.000 | 100 |
| 38 1,1,2-Trichloroethane | 97 | 12.049 | 12.049 | (1.179) | 78428 | 100.000 | 94 |
| 39 2-Hexanone | 43 | 12.207 | 12.207 | (0.939) | 25902 | 100.000 | 110 |
| 40 Tetrachloroethene | 164 | 12.268 | 12.268 | (0.944) | 99136 | 100.000 | 93 |
| 41 Dibromochloromethane | 129 | 12.439 | 12.439 | (1.217) | 99003 | 100.000 | 94 |
| 42 1,2-Dibromoethane | 107 | 12.591 | 12.591 | (0.969) | 67462 | 100.000 | 95 |
| 43 Chlorobenzene | 112 | 13.018 | 13.018 | (1.002) | 325810 | 100.000 | 92 |
| 44 Ethylbenzene | 106 | 13.067 | 13.067 | (1.006) | 169094 | 100.000 | 95 |
| 45 m,p-Xylene | 106 | 13.164 | 13.164 | (1.013) | 455514 | 200.000 | 190 |
| 46 o-Xylene | 106 | 13.506 | 13.506 | (1.039) | 213313 | 100.000 | 97 |
| 47 Styrene | 104 | 13.506 | 13.506 | (1.039) | 324535 | 100.000 | 98 |
| 48 Bromoform | 173 | 13.683 | 13.683 | (1.339) | 66572 | 100.000 | 94 |
| 49 Isopropylbenzene | 105 | 13.786 | 13.786 | (1.061) | 602581 | 100.000 | 100 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.981 | 13.981 | (1.076) | 126224 | 100.000 | 93 |
| 51 1,3-Dichlorobenzene | 146 | 14.877 | 14.877 | (1.145) | 265990 | 100.000 | 96 |
| 52 1,4-Dichlorobenzene | 146 | 14.944 | 14.944 | (1.150) | 278126 | 100.000 | 95 |
| 53 1,2-Dichlorobenzene | 146 | 15.286 | 15.286 | (1.176) | 243879 | 100.000 | 94 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.963 | 15.963 | (1.228) | 25618 | 100.000 | 95 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.853 | 16.853 | (1.297) | 165510 | 100.000 | 96 |
| M 56 Xylene (Total) | 106 | | | | 668827 | 100.000 | 300 |

QC Flag Legend

M - Compound response manually integrated.

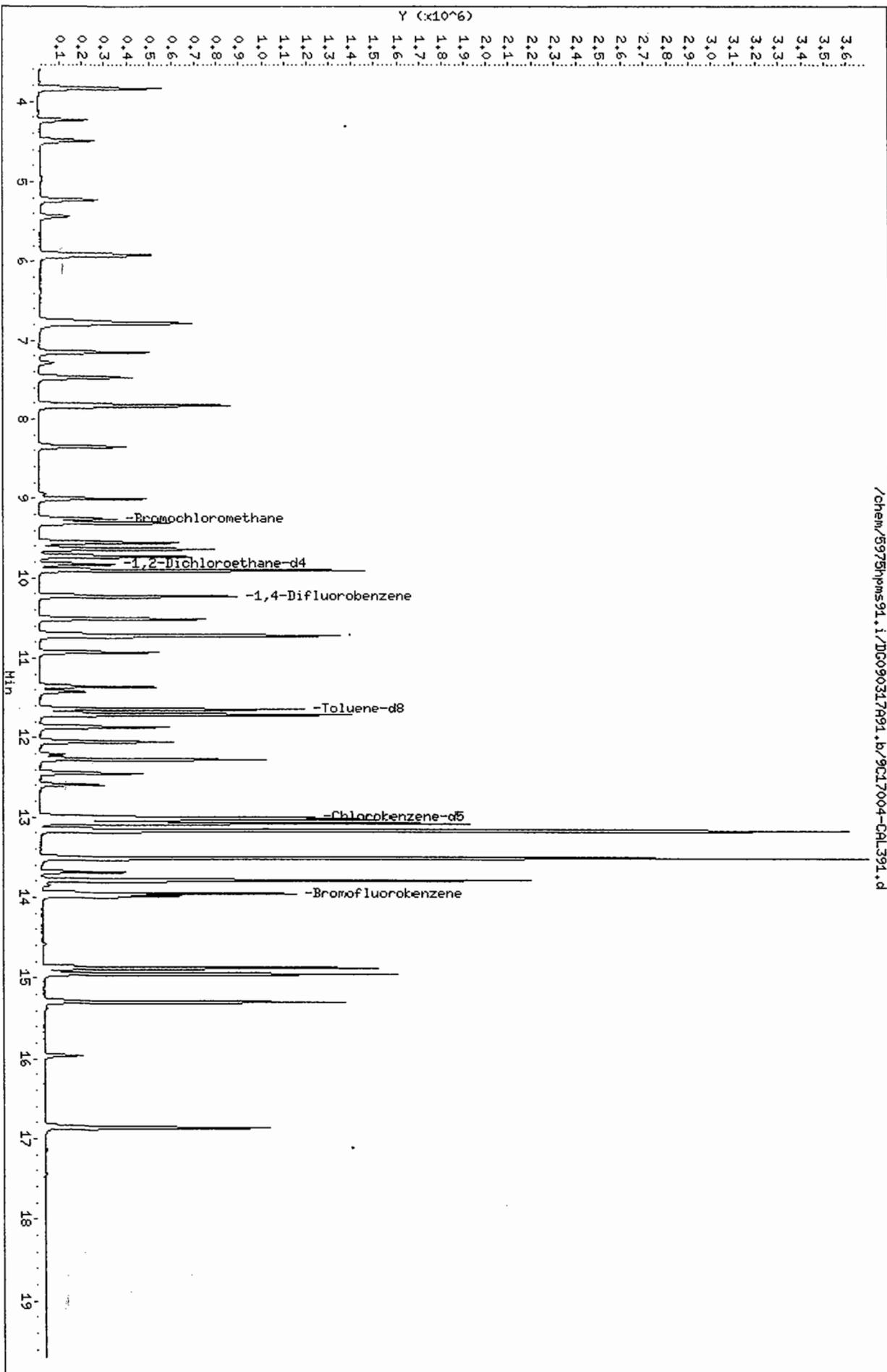
Bromofluorobenzene CAS Number 460-00-4 Area = 168553 Manually integrated



File name: /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL291.d
Client ID: VSTD020GW
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2009 12:31
Retention Time: 13.94
Operator ID: JAO

Data File: /chem/5975hms91.i/DIG090317891.b/9C17004-CAL391.d
Date: 17-MAR-2009 14:30
Client ID: VSTD050GM
Sample Info: 9C17002-CAL3:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hms91.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL391.d
 Lab Smp Id: 9C17002-CAL3 Client Smp ID: VSTD050GW
 Inj Date : 17-MAR-2009 14:30
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 9C17002-CAL3:JAO
 Misc Info : VSTD050GW
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:17 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|--------|----------|---------------|--------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | 9.250 | 9.250 | (1.000) | 90803 | 250.000 | | |
| * 2 1,4-Difluorobenzene | 114 | 10.226 | 10.226 | (1.000) | 583569 | 250.000 | | |
| * 3 Chlorobenzene-d5 | 117 | 12.993 | 12.993 | (1.000) | 573027 | 250.000 | | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.823 | 9.823 | (1.062) | 246214 | 250.000 | 210 | |
| \$ 5 Toluene-d8 | 98 | 11.634 | 11.634 | (0.895) | 779305 | 250.000 | 240 | |
| \$ 6 Bromofluorobenzene | 95 | 13.945 | 13.945 | (1.073) | 358190 | 250.000 | 230 (M) | |
| 7 Dichlorodifluoromethane | 85 | 3.831 | 3.831 | (0.414) | 669714 | 250.000 | 240 | |
| 8 Chloromethane | 50 | 4.233 | 4.233 | (0.458) | 264240 | 250.000 | 240 | |
| 9 Vinyl Chloride | 62 | 4.489 | 4.489 | (0.485) | 333112 | 250.000 | 240 | |
| 10 Bromomethane | 94 | 5.227 | 5.227 | (0.565) | 236135 | 250.000 | 240 | |
| 11 Chloroethane | 64 | 5.428 | 5.428 | (0.587) | 162074 | 250.000 | 240 | |
| 12 Trichlorofluoromethane | 101 | 5.916 | 5.916 | (0.639) | 651569 | 250.000 | 240 | |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | 6.769 | 6.769 | (0.732) | 229144 | 250.000 | 200 | |
| 14 1,1-Dichloroethene | 96 | 6.787 | 6.787 | (0.734) | 187733 | 250.000 | 200 | |
| 15 Acetone | 43 | 6.806 | 6.806 | (0.736) | 41277 | 250.000 | 170 | |

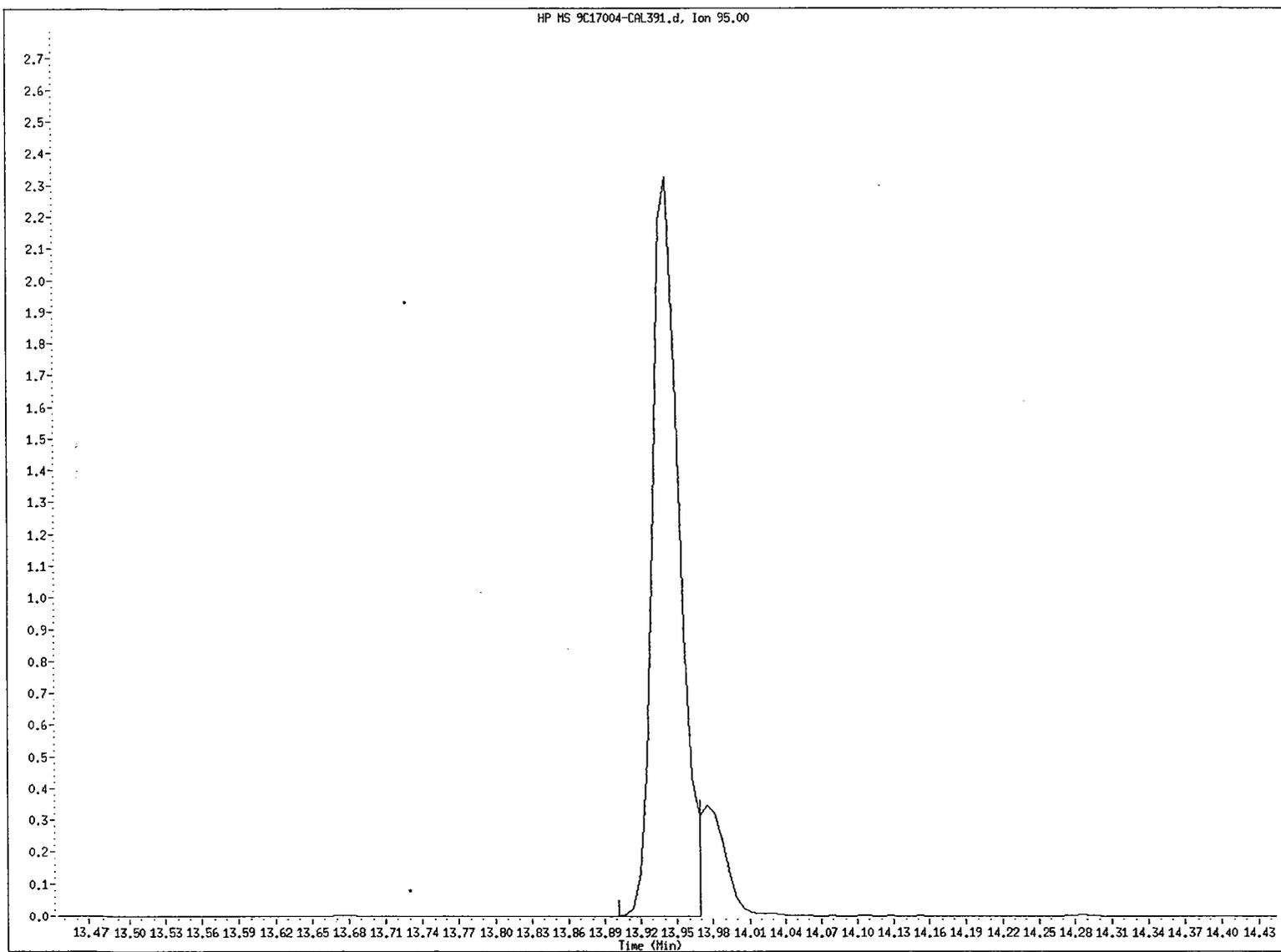
Handwritten signature and date: 3/18/09

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 16 Carbon Disulfide | 76 | 7.147 | 7.147 | (0.773) | 809018 | 250.000 | 210 |
| 17 Methyl Acetate | 43 | 7.287 | 7.287 | (0.788) | 86629 | 250.000 | 220 |
| 18 Methylene Chloride | 84 | 7.470 | 7.470 | (0.808) | 225730 | 250.000 | 220 |
| 19 Methyl tert-Butyl Ether | 73 | 7.818 | 7.818 | (0.845) | 416417 | 250.000 | 270 |
| 20 trans-1,2-Dichloroethene | 96 | 7.830 | 7.830 | (0.846) | 247822 | 250.000 | 230 |
| 21 1,1-Dichloroethane | 63 | 8.342 | 8.342 | (0.902) | 386106 | 250.000 | 220 |
| 22 2-Butanone | 43 | 8.945 | 8.945 | (0.967) | 34161 | 250.000 | 240 |
| 23 cis-1,2-Dichloroethene | 96 | 9.000 | 9.000 | (0.973) | 206959 | 250.000 | 270 |
| 24 Chloroform | 83 | 9.299 | 9.299 | (1.005) | 472964 | 250.000 | 220 |
| 25 1,1,1-Trichloroethane | 97 | 9.549 | 9.549 | (0.934) | 445850 | 250.000 | 210 |
| 26 Cyclohexane | 56 | 9.628 | 9.628 | (0.942) | 311470 | 250.000 | 240 |
| 27 Carbon Tetrachloride | 117 | 9.726 | 9.726 | (0.951) | 452021 | 250.000 | 210 |
| 28 1,2-Dichloroethane | 62 | 9.897 | 9.897 | (1.070) | 351035 | 250.000 | 230 |
| 29 Benzene | 78 | 9.897 | 9.897 | (0.968) | 917198 | 250.000 | 230 |
| 30 Trichloroethene | 130 | 10.506 | 10.506 | (1.027) | 217702 | 250.000 | 230 |
| 31 1,2-Dichloropropane | 63 | 10.701 | 10.701 | (1.046) | 216345 | 250.000 | 230 |
| 32 Methylcyclohexane | 83 | 10.720 | 10.720 | (1.048) | 392805 | 250.000 | 220 |
| 33 Bromodichloromethane | 83 | 10.921 | 10.921 | (1.068) | 336055 | 250.000 | 220 |
| 34 cis-1,3-Dichloropropene | 75 | 11.354 | 11.354 | (1.110) | 288072 | 250.000 | 270 |
| 35 4-Methyl-2-Pentanone | 43 | 11.421 | 11.421 | (0.879) | 122058 | 250.000 | 270 |
| 36 Toluene | 91 | 11.707 | 11.707 | (0.901) | 1080453 | 250.000 | 240 |
| 37 trans-1,3-Dichloropropene | 75 | 11.866 | 11.866 | (1.160) | 320654 | 250.000 | 260 |
| 38 1,1,2-Trichloroethane | 97 | 12.049 | 12.049 | (1.178) | 181494 | 250.000 | 230 |
| 39 2-Hexanone | 43 | 12.207 | 12.207 | (0.939) | 65977 | 250.000 | 270 |
| 40 Tetrachloroethene | 164 | 12.268 | 12.268 | (0.944) | 226455 | 250.000 | 230 |
| 41 Dibromochloromethane | 129 | 12.445 | 12.445 | (1.217) | 239357 | 250.000 | 230 |
| 42 1,2-Dibromoethane | 107 | 12.591 | 12.591 | (0.969) | 165956 | 250.000 | 240 |
| 43 Chlorobenzene | 112 | 13.018 | 13.018 | (1.002) | 735787 | 250.000 | 220 |
| 44 Ethylbenzene | 106 | 13.067 | 13.067 | (1.006) | 401099 | 250.000 | 240 |
| 45 m,p-Xylene | 106 | 13.164 | 13.164 | (1.013) | 1035387 | 500.000 | 460 |
| 46 o-Xylene | 106 | 13.506 | 13.506 | (1.039) | 502736 | 250.000 | 240 |
| 47 Styrene | 104 | 13.506 | 13.506 | (1.039) | 792060 | 250.000 | 250 |
| 48 Bromoform | 173 | 13.682 | 13.682 | (1.338) | 156959 | 250.000 | 230 |
| 49 Isopropylbenzene | 105 | 13.786 | 13.786 | (1.061) | 1304839 | 250.000 | 230 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.981 | 13.981 | (1.076) | 277126 | 250.000 | 220 |
| 51 1,3-Dichlorobenzene | 146 | 14.871 | 14.871 | (1.145) | 602446 | 250.000 | 230 |
| 52 1,4-Dichlorobenzene | 146 | 14.944 | 14.944 | (1.150) | 638307 | 250.000 | 230 |
| 53 1,2-Dichlorobenzene | 146 | 15.286 | 15.286 | (1.176) | 554682 | 250.000 | 230 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.962 | 15.962 | (1.228) | 51868 | 250.000 | 210 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.852 | 16.852 | (1.297) | 357145 | 250.000 | 220 |
| M 56 Xylene (Total) | 106 | | | | 1538123 | 250.000 | 730 |

QC Flag Legend

M - Compound response manually integrated.

Bromofluorobenzene CAS Number 460-00-4 Area = 358190 Manually integrated

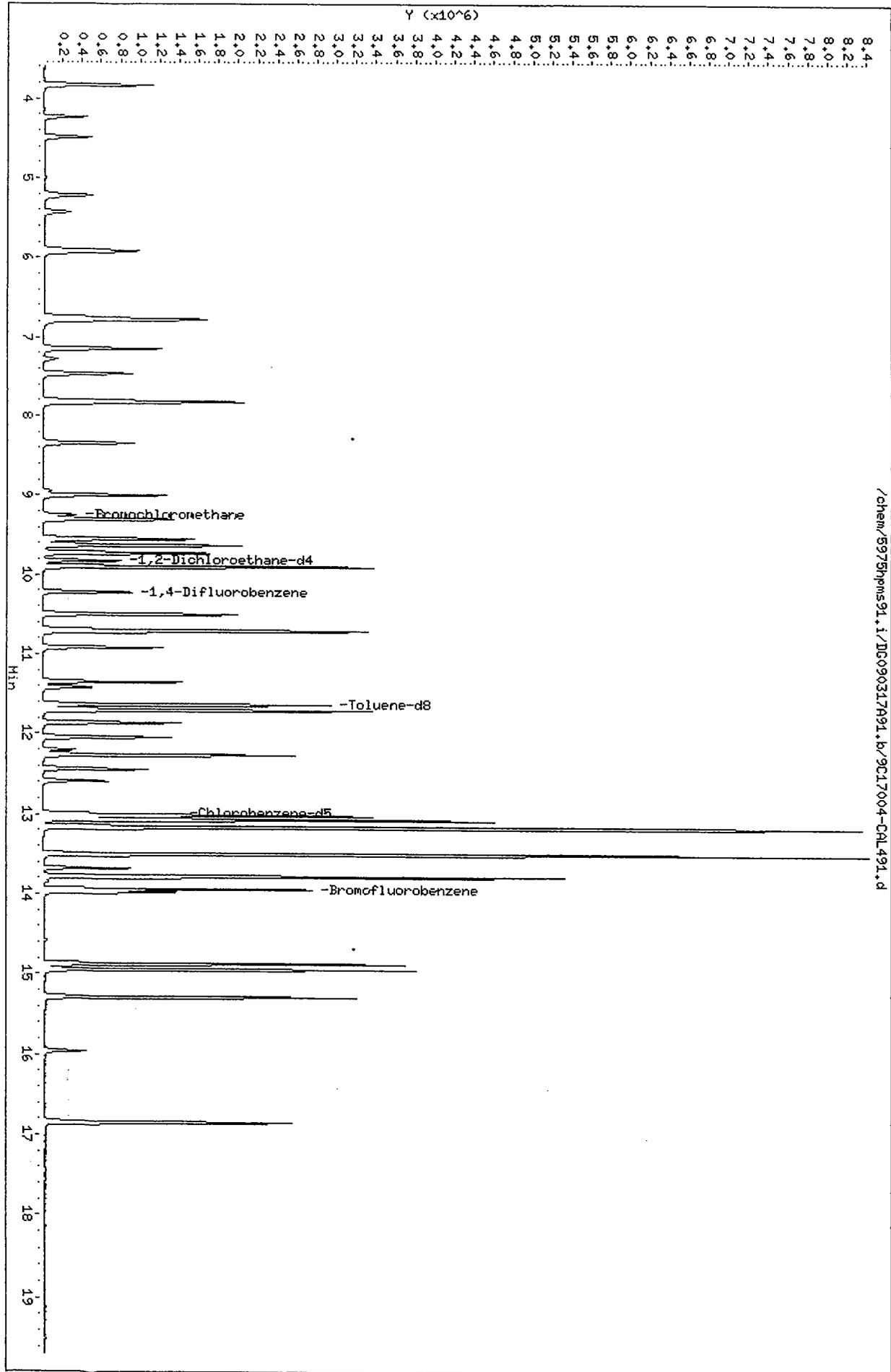


File name: /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL391.d
Client ID: VSTD050GW
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2009 14:30
Retention Time: 13.94
Operator ID: JAO

Data File: /chem/5975hpm591.i/DC090317A91.b/9C17004-CAL491.d
 Date: 17-MAR-2009 14:03
 Client ID: VSTD1006M
 Sample Info: 9C17002-CAL4:J40
 Purge Volume: 5.0
 Column phase: SPB-624

Instrument: 5975hpm591.i
 Operator: J40
 Column diameter: 0.32

/chem/5975hpm591.i/DC090317A91.b/9C17004-CAL491.d



Data File: /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL491.d
 Report Date: 18-Mar-2009 16:17

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL491.d
 Lab Smp Id: 9C17002-CAL4 Client Smp ID: VSTD100GW
 Inj Date : 17-MAR-2009 14:03
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 9C17002-CAL4:JAO
 Misc Info : VSTD100GW
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:17 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

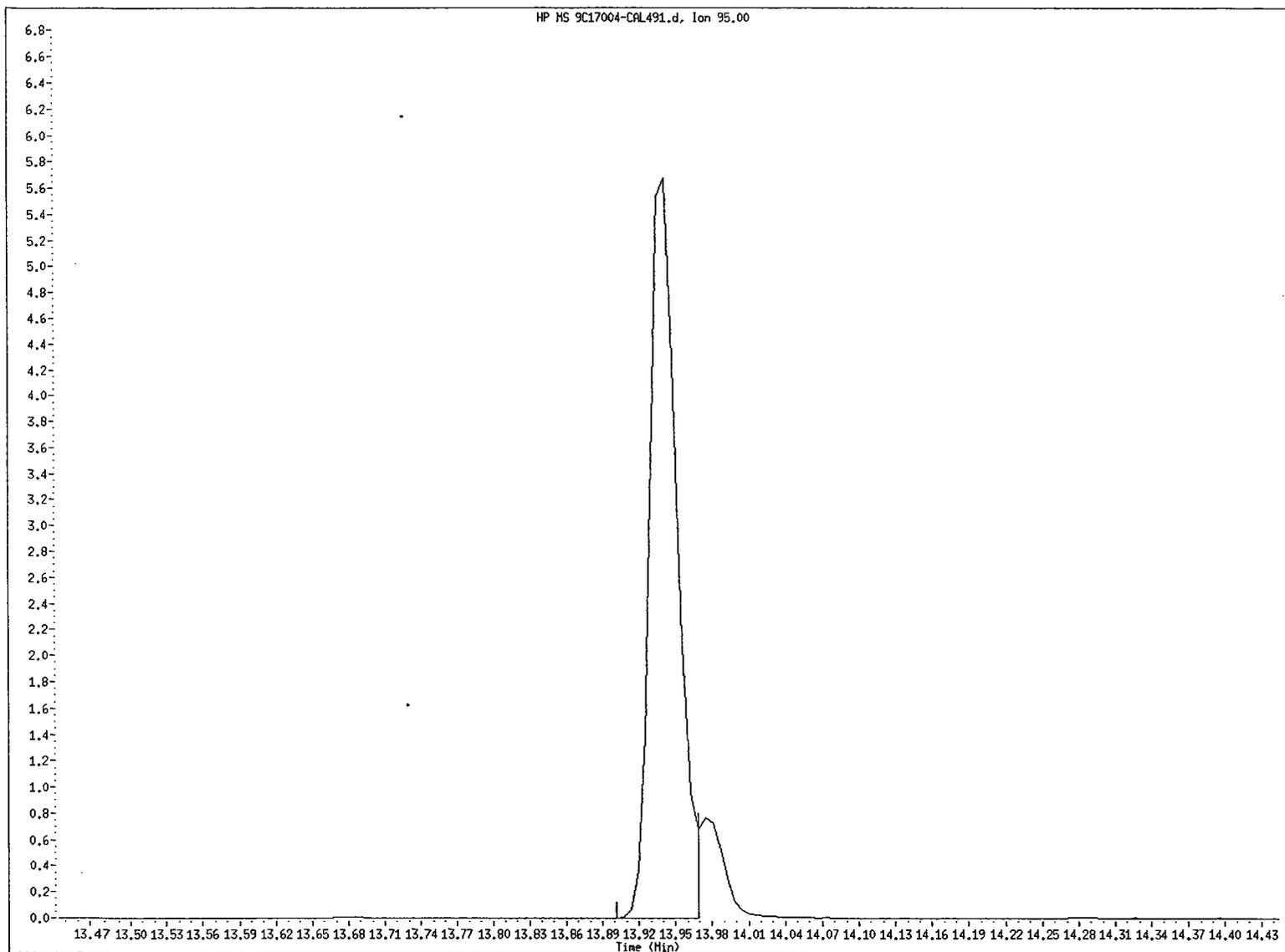
| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | 9.250 | 9.250 | (1.000) | 96096 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 10.226 | 10.226 | (1.000) | 614423 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.993 | 12.993 | (1.000) | 616505 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.823 | 9.823 | (1.062) | 587062 | 500.000 | 480 |
| \$ 5 Toluene-d8 | 98 | 11.634 | 11.634 | (0.895) | 2019984 | 500.000 | 560 |
| 6 Bromofluorobenzene | 95 | 13.944 | 13.944 | (1.073) | 888120 | 500.000 | 520 (M) |
| 7 Dichlorodifluoromethane | 85 | 3.831 | 3.831 | (0.414) | 1352322 | 500.000 | 470 |
| 8 Chloromethane | 50 | 4.233 | 4.233 | (0.458) | 527808 | 500.000 | 460 |
| 9 Vinyl Chloride | 62 | 4.483 | 4.483 | (0.485) | 667670 | 500.000 | 470 |
| 10 Bromomethane | 94 | 5.221 | 5.221 | (0.564) | 471527 | 500.000 | 470 |
| 11 Chloroethane | 64 | 5.428 | 5.428 | (0.587) | 327541 | 500.000 | 460 |
| 12 Trichlorofluoromethane | 101 | 5.916 | 5.916 | (0.639) | 1299520 | 500.000 | 460 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | 6.769 | 6.769 | (0.732) | 581573 | 500.000 | 480 |
| 14 1,1-Dichloroethene | 96 | 6.787 | 6.787 | (0.734) | 467214 | 500.000 | 480 |
| 15 Acetone | 43 | 6.806 | 6.806 | (0.736) | 81025 | 500.000 | 340 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 16 Carbon Disulfide | 76 | 7.147 | 7.147 | (0.773) | 2043294 | 500.000 | 500 |
| 17 Methyl Acetate | 43 | 7.281 | 7.281 | (0.787) | 201742 | 500.000 | 490 |
| 18 Methylene Chloride | 84 | 7.470 | 7.470 | (0.808) | 499997 | 500.000 | 470 |
| 19 Methyl tert-Butyl Ether | 73 | 7.812 | 7.812 | (0.844) | 1086787 | 500.000 | 620 |
| 20 trans-1,2-Dichloroethene | 96 | 7.830 | 7.830 | (0.846) | 596012 | 500.000 | 520 |
| 21 1,1-Dichloroethane | 63 | 8.342 | 8.342 | (0.902) | 932299 | 500.000 | 510 |
| 22 2-Butanone | 43 | 8.945 | 8.945 | (0.967) | 95047 | 500.000 | 590 |
| 23 cis-1,2-Dichloroethene | 96 | 9.000 | 9.000 | (0.973) | 549507 | 500.000 | 620 |
| 24 Chloroform | 83 | 9.299 | 9.299 | (1.005) | 1071206 | 500.000 | 480 |
| 25 1,1,1-Trichloroethane | 97 | 9.549 | 9.549 | (0.934) | 1115399 | 500.000 | 500 |
| 26 Cyclohexane | 56 | 9.628 | 9.628 | (0.942) | 927081 | 500.000 | 630 |
| 27 Carbon Tetrachloride | 117 | 9.726 | 9.726 | (0.951) | 1158115 | 500.000 | 500 |
| 28 1,2-Dichloroethane | 62 | 9.896 | 9.896 | (1.070) | 789939 | 500.000 | 490 |
| 29 Benzene | 78 | 9.896 | 9.896 | (0.968) | 2172752 | 500.000 | 520 |
| 30 Trichloroethene | 130 | 10.506 | 10.506 | (1.027) | 583365 | 500.000 | 560 |
| 31 1,2-Dichloropropane | 63 | 10.701 | 10.701 | (1.046) | 494279 | 500.000 | 490 |
| 32 Methylcyclohexane | 83 | 10.713 | 10.713 | (1.048) | 1111443 | 500.000 | 570 |
| 33 Bromodichloromethane | 83 | 10.921 | 10.921 | (1.068) | 777668 | 500.000 | 500 |
| 34 cis-1,3-Dichloropropene | 75 | 11.347 | 11.347 | (1.110) | 781828 | 500.000 | 640 |
| 35 4-Methyl-2-Pentanone | 43 | 11.414 | 11.414 | (0.878) | 316756 | 500.000 | 610 |
| 36 Toluene | 91 | 11.701 | 11.701 | (0.901) | 2638332 | 500.000 | 530 |
| 37 trans-1,3-Dichloropropene | 75 | 11.866 | 11.866 | (1.160) | 812843 | 500.000 | 590 |
| 38 1,1,2-Trichloroethane | 97 | 12.049 | 12.049 | (1.178) | 409800 | 500.000 | 490 |
| 39 2-Hexanone | 43 | 12.207 | 12.207 | (0.939) | 202976 | 500.000 | 670 |
| 40 Tetrachloroethene | 164 | 12.268 | 12.268 | (0.944) | 580976 | 500.000 | 530 |
| 41 Dibromochloromethane | 129 | 12.445 | 12.445 | (1.217) | 570207 | 500.000 | 520 |
| 42 1,2-Dibromoethane | 107 | 12.591 | 12.591 | (0.969) | 397214 | 500.000 | 530 |
| 43 Chlorobenzene | 112 | 13.018 | 13.018 | (1.002) | 1704690 | 500.000 | 490 |
| 44 Ethylbenzene | 106 | 13.067 | 13.067 | (1.006) | 988475 | 500.000 | 530 |
| 45 m,p-Xylene | 106 | 13.164 | 13.164 | (1.013) | 2455585 | 1000.00 | 1000 |
| 46 o-Xylene | 106 | 13.506 | 13.506 | (1.039) | 1178563 | 500.000 | 520 |
| 47 Styrene | 104 | 13.506 | 13.506 | (1.039) | 1890956 | 500.000 | 530 |
| 48 Bromoform | 173 | 13.682 | 13.682 | (1.338) | 374087 | 500.000 | 510 |
| 49 Isopropylbenzene | 105 | 13.786 | 13.786 | (1.061) | 3401190 | 500.000 | 550 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.975 | 13.975 | (1.076) | 619411 | 500.000 | 470 |
| 51 1,3-Dichlorobenzene | 146 | 14.871 | 14.871 | (1.145) | 1492931 | 500.000 | 520 |
| 52 1,4-Dichlorobenzene | 146 | 14.944 | 14.944 | (1.150) | 1538518 | 500.000 | 510 |
| 53 1,2-Dichlorobenzene | 146 | 15.286 | 15.286 | (1.176) | 1332826 | 500.000 | 510 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.962 | 15.962 | (1.228) | 126084 | 500.000 | 490 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.852 | 16.852 | (1.297) | 936773 | 500.000 | 530 |
| M 56 Xylene (Total) | 106 | | | | 3634148 | 500.000 | 1600 |

QC Flag Legend

M - Compound response manually integrated.

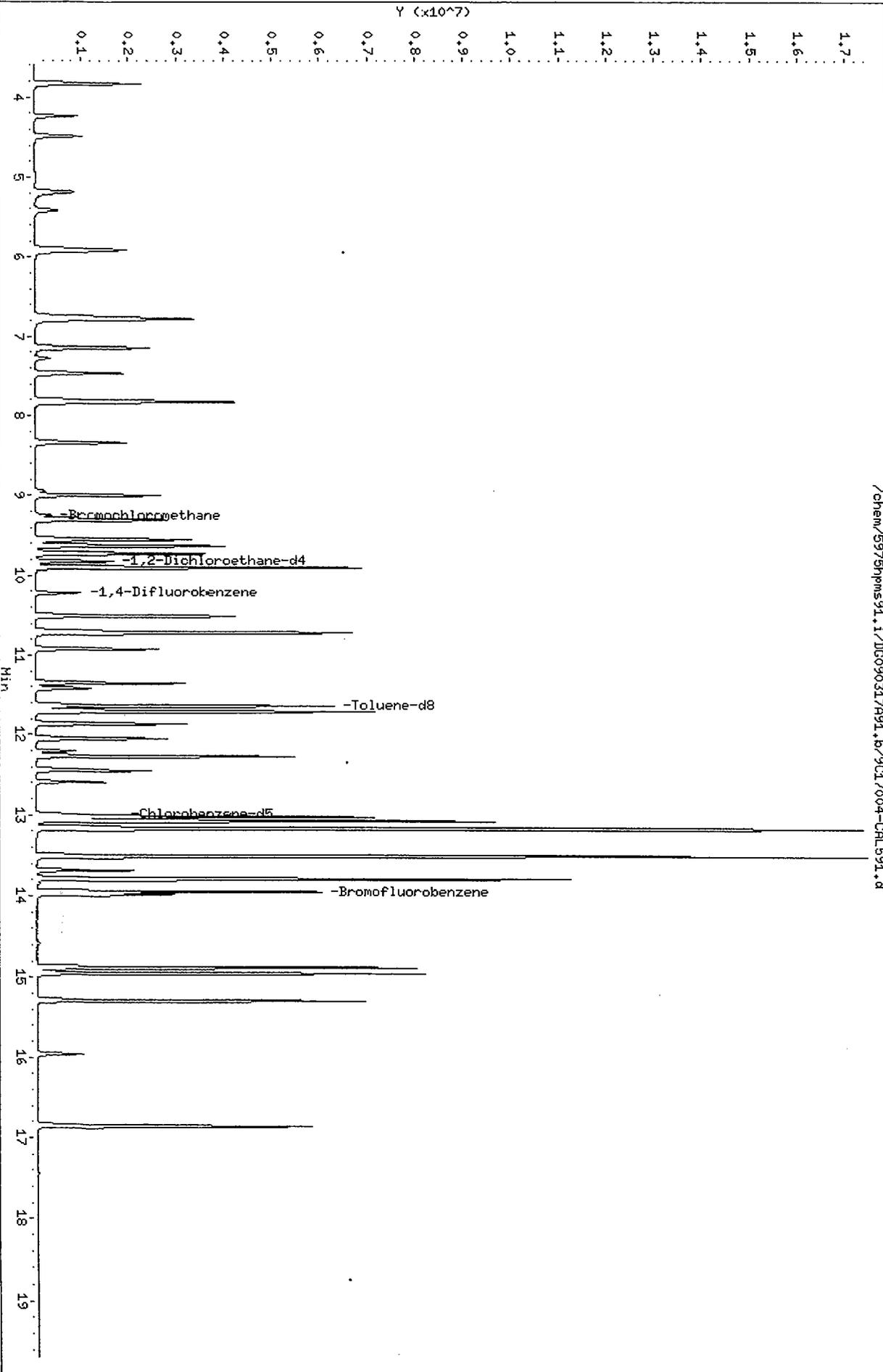
Bromofluorobenzene CAS Number 460-00-4 Area = 888120 Manually integrated



File name: /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL491.d
Client ID: VSTD100GW
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2009 14:03
Retention Time: 13.94
Operator ID: JAO

Data File: /chem/5975hpms91.i/DC090317A91.b/9C17004-CAL591.d
Date: 17-MAR-2009 13:36
Client ID: VSTD200GM
Sample Info: 9C17002-CAL5:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL591.d
 Lab Smp Id: 9C17002-CAL5 Client Smp ID: VSTD200GW
 Inj Date : 17-MAR-2009 13:36
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 9C17002-CAL5:JAO
 Misc Info : VSTD200GW
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:17 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | | 128 | 9.244 | 9.244 | (1.000) | 98233 | 250.000 | |
| * 2 1,4-Difluorobenzene | | 114 | 10.220 | 10.220 | (1.000) | 640015 | 250.000 | |
| * 3 Chlorobenzene-d5 | | 117 | 12.994 | 12.994 | (1.000) | 655976 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | | 65 | 9.823 | 9.823 | (1.063) | 1235363 | 1000.00 | 990 |
| \$ 5 Toluene-d8 | | 98 | 11.634 | 11.634 | (0.895) | 4423852 | 1000.00 | 1100 (A) |
| ^ 6 Bromofluorobenzene | | 95 | 13.945 | 13.945 | (1.073) | 1978871 | 1000.00 | 1100 (AM) |
| 7 Dichlorodifluoromethane | | 85 | 3.831 | 3.831 | (0.414) | 2663415 | 1000.00 | 920 |
| 8 Chloromethane | | 50 | 4.233 | 4.233 | (0.458) | 1071560 | 1000.00 | 920 |
| 9 Vinyl Chloride | | 62 | 4.483 | 4.483 | (0.485) | 1322202 | 1000.00 | 920 |
| 10 Bromomethane | | 94 | 5.184 | 5.184 | (0.561) | 907154 | 1000.00 | 910 |
| 11 Chloroethane | | 64 | 5.416 | 5.416 | (0.586) | 650524 | 1000.00 | 920 |
| 12 Trichlorofluoromethane | | 101 | 5.910 | 5.910 | (0.639) | 2606453 | 1000.00 | 920 |
| 13 1,1,2-trichloro-1,2,2-trifluo | | 101 | 6.763 | 6.763 | (0.732) | 1187168 | 1000.00 | 960 |
| 14 1,1-Dichloroethene | | 96 | 6.781 | 6.781 | (0.734) | 970594 | 1000.00 | 970 |
| 15 Acetone | | 43 | 6.806 | 6.806 | (0.736) | 168397 | 1000.00 | 740 |

Handwritten signature and initials

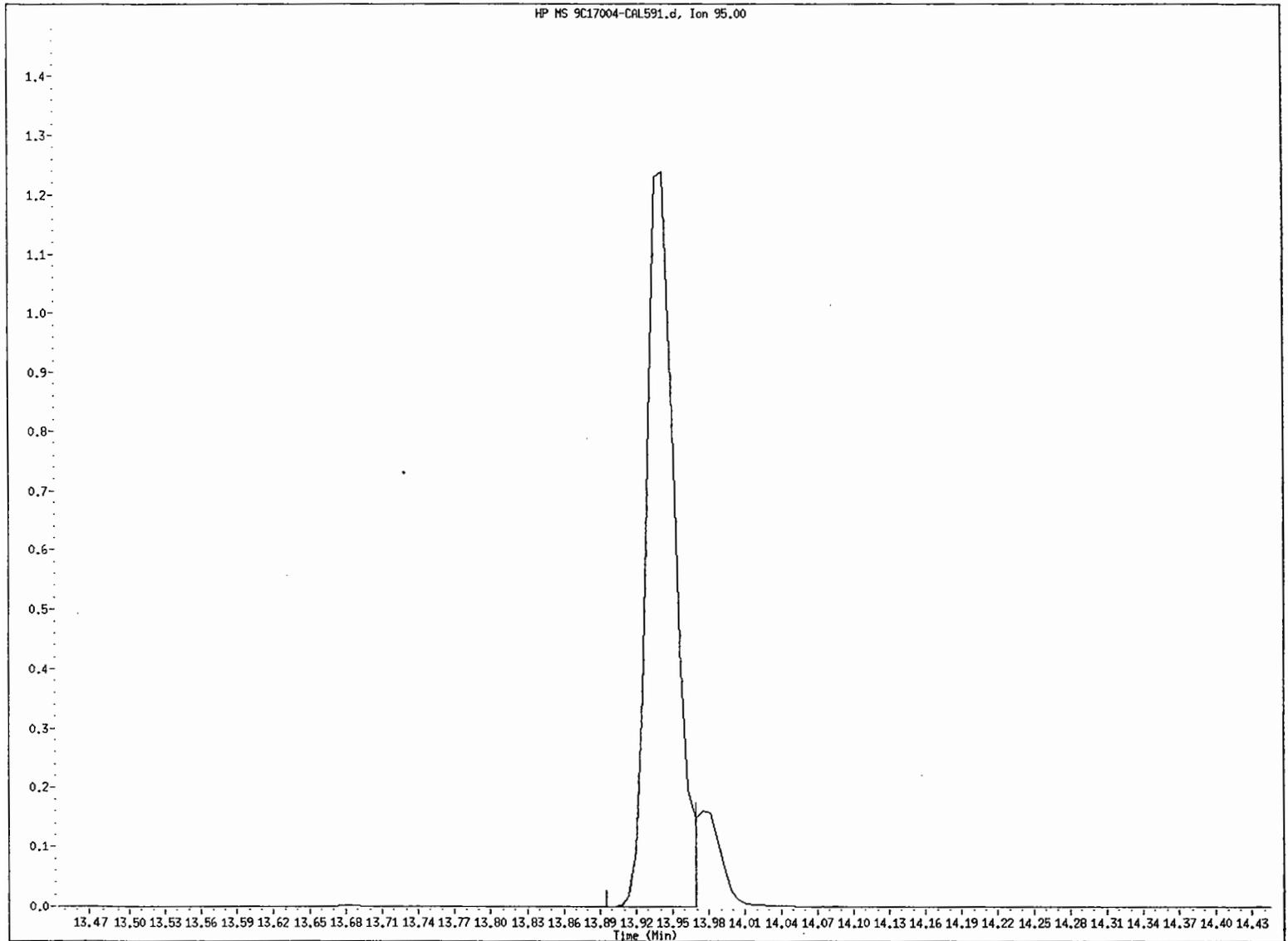
Report Date: 18-Mar-2009 16:17

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 16 Carbon Disulfide | 76 | 7.141 | 7.141 | (0.772) | 4181364 | 1000.00 | 1000 (A) |
| 17 Methyl Acetate | 43 | 7.281 | 7.281 | (0.788) | 427460 | 1000.00 | 1000 (A) |
| 18 Methylene Chloride | 84 | 7.464 | 7.464 | (0.807) | 1033506 | 1000.00 | 950 |
| 19 Methyl tert-Butyl Ether | 73 | 7.812 | 7.812 | (0.845) | 2463333 | 1000.00 | 1300 (A) |
| 20 trans-1,2-Dichloroethene | 96 | 7.824 | 7.824 | (0.846) | 1231692 | 1000.00 | 1000 (A) |
| 21 1,1-Dichloroethane | 63 | 8.336 | 8.336 | (0.902) | 1979866 | 1000.00 | 1000 (A) |
| 22 2-Butanone | 43 | 8.940 | 8.940 | (0.967) | 239149 | 1000.00 | 1300 (A) |
| 23 cis-1,2-Dichloroethene | 96 | 8.994 | 8.994 | (0.973) | 1204255 | 1000.00 | 1200 (A) |
| 24 Chloroform | 83 | 9.299 | 9.299 | (1.006) | 2239517 | 1000.00 | 980 |
| 25 1,1,1-Trichloroethane | 97 | 9.543 | 9.543 | (0.934) | 2402324 | 1000.00 | 1000 (A) |
| 26 Cyclohexane | 56 | 9.628 | 9.628 | (0.942) | 1947291 | 1000.00 | 1200 (A) |
| 27 Carbon Tetrachloride | 117 | 9.720 | 9.720 | (0.951) | 2458799 | 1000.00 | 1000 (A) |
| 28 1,2-Dichloroethane | 62 | 9.897 | 9.897 | (1.071) | 1654468 | 1000.00 | 1000 (A) |
| 29 Benzene | 78 | 9.897 | 9.897 | (0.968) | 4489778 | 1000.00 | 1000 (A) |
| 30 Trichloroethene | 130 | 10.506 | 10.506 | (1.028) | 1291977 | 1000.00 | 1100 (A) |
| 31 1,2-Dichloropropane | 63 | 10.695 | 10.695 | (1.047) | 1002556 | 1000.00 | 970 |
| 32 Methylcyclohexane | 83 | 10.714 | 10.714 | (1.048) | 2320402 | 1000.00 | 1100 (A) |
| 33 Bromodichloromethane | 83 | 10.921 | 10.921 | (1.069) | 1683124 | 1000.00 | 1000 (A) |
| 34 cis-1,3-Dichloropropene | .75 | 11.348 | 11.348 | (1.110) | 1805854 | 1000.00 | 1300 (A) |
| 35 4-Methyl-2-Pentanone | 43 | 11.415 | 11.415 | (0.878) | 717716 | 1000.00 | 1200 (A) |
| 36 Toluene | 91 | 11.701 | 11.701 | (0.901) | 5598505 | 1000.00 | 1000 (A) |
| 37 trans-1,3-Dichloropropene | 75 | 11.860 | 11.860 | (1.160) | 1836108 | 1000.00 | 1200 (A) |
| 38 1,1,2-Trichloroethane | 97 | 12.049 | 12.049 | (1.179) | 890125 | 1000.00 | 1000 (A) |
| 39 2-Hexanone | 43 | 12.201 | 12.201 | (0.939) | 505455 | 1000.00 | 1400 (A) |
| 40 Tetrachloroethene | 164 | 12.268 | 12.268 | (0.944) | 1245034 | 1000.00 | 1100 (A) |
| 41 Dibromochloromethane | 129 | 12.439 | 12.439 | (1.217) | 1276429 | 1000.00 | 1100 (A) |
| 42 1,2-Dibromoethane | 107 | 12.591 | 12.591 | (0.969) | 895733 | 1000.00 | 1100 (A) |
| 43 Chlorobenzene | 112 | 13.018 | 13.018 | (1.002) | 3627715 | 1000.00 | 980 |
| 44 Ethylbenzene | 106 | 13.067 | 13.067 | (1.006) | 2104701 | 1000.00 | 1100 (A) |
| 45 m,p-Xylene | 106 | 13.164 | 13.164 | (1.013) | 5253553 | 2000.00 | 2000 (A) |
| 46 o-Xylene | 106 | 13.506 | 13.506 | (1.039) | 2497042 | 1000.00 | 1000 (A) |
| 47 Styrene | 104 | 13.506 | 13.506 | (1.039) | 4051327 | 1000.00 | 1100 (A) |
| 48 Bromoform | 173 | 13.682 | 13.682 | (1.339) | 848256 | 1000.00 | 1100 (A) |
| 49 Isopropylbenzene | 105 | 13.786 | 13.786 | (1.061) | 7408906 | 1000.00 | 1100 (A) |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.975 | 13.975 | (1.076) | 1319907 | 1000.00 | 950 |
| 51 1,3-Dichlorobenzene | 146 | 14.871 | 14.871 | (1.145) | 3271536 | 1000.00 | 1100 (A) |
| 52 1,4-Dichlorobenzene | 146 | 14.944 | 14.944 | (1.150) | 3376307 | 1000.00 | 1000 (A) |
| 53 1,2-Dichlorobenzene | 146 | 15.286 | 15.286 | (1.176) | 2940494 | 1000.00 | 1000 (A) |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.956 | 15.956 | (1.228) | 281347 | 1000.00 | 1000 (A) |
| 55 1,2,4-Trichlorobenzene | 180 | 16.853 | 16.853 | (1.297) | 2139159 | 1000.00 | 1100 (A) |
| M 56 Xylene (Total) | 106 | | | | 7750595 | 1000.00 | 3200 (A) |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Bromofluorobenzene CAS Number 460-00-4 Area = 1978871 Manually integrated



File name: /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL591.d
Client ID: VSTD200GW
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2009 13:36
Retention Time: 13.94
Operator ID: JAO

COMPUCHEM a Division of Liberty Analytical Corp
 GC/MS VOLATILE RUN LOG
 COMPUCHEM LOGBOOK 23 BB 5 (5975hpm91)

DATE 3/17/09

INITIAL TIME OF TUNE 1151
 TIME TUNE EXPIRES 2351

SHIFT(S) (A) (B) (C)
 METHOD WOLM4

PREVENTIVE MAINTENANCE

returned

| FILE NAME | pH | Vial | DATE | TIME | Client ID | SDG# | INJ VOL | DF# | CHEMIST | COMMENTS (Etc.) / DISPOSITION |
|-----------------|----|------|---------|------|---------------|---------|---------|---------|---------|-------------------------------|
| 1 9C17004-TW1 | - | - | 3/17/09 | 1151 | BFB | - | 2uL | - | JAS | LED = 500 |
| 2 -CAL2 | - | - | 1/1 | 1231 | VSTD020GW | - | 10mL | - | | |
| 3 -CAL1 | - | - | 1/1 | 1258 | VSTD010GW | - | - | - | | |
| 4 -CAL5 | - | - | 1/1 | 1336 | VSTD200GW | - | - | - | | |
| 5 -CAL4 | - | - | 1/1 | 1403 | VSTD100GW | - | - | - | | |
| 6 -CAL3 | - | - | 1/1 | 1430 | VSTD050GW | - | - | - | | |
| 7 9031712-BK1 | - | - | 1/1 | 1457 | VBLK GW | VARIOUS | 5mL | - | | Recheck Pin Custody |
| 8 0902052-08 | - | - | 1/1 | 1538 | HB-13 10-12 | 0902052 | 100uL | enforce | | |
| 9 -09 | - | - | 1/1 | 1605 | HB-13 10-12FD | 0903052 | 25mL | 3-17-09 | | |
| 10 0903052-13R2 | - | - | 1/1 | 1632 | DLX -SR-9 | - | 5mL | - | | |
| 11 -18R2 | - | - | 1/1 | 1659 | TB031009B-400 | - | 5mL | - | | |
| 12 9031712-MS1 | - | - | 1/1 | 1726 | DW-29MS | - | 5mL | - | | |
| 13 -MSD1 | - | - | 1/1 | 1753 | DW-29MSD | - | 1mL | - | | |
| 14 0903052-12R2 | - | - | 1/1 | 1820 | SR-7 | - | 1mL | 5 | | |
| 15 -15R2SL | - | - | 1/1 | 1847 | DR-1 | - | 70uL | 71-43 | | |
| 16 -16R2SL | - | - | 1/1 | 1914 | DR-4 | - | 1mL | 5 | | |
| 17 0903085-01 | - | - | 1/1 | 1941 | S-1 | 0903085 | 5mL | - | | |
| 18 -02 | - | - | 1/1 | 2008 | S-2 | - | - | - | | |
| 19 -03 | - | - | 1/1 | 2035 | S-3 | - | - | - | | |
| 20 -04 | - | - | 1/1 | 2102 | S-4 | - | - | - | | |
| 21 -05 | - | - | 1/1 | 2129 | S-5 | - | - | - | | |
| 22 -06 | - | - | 1/1 | 2156 | S-6 | - | - | - | | |
| 23 | - | - | 1/1 | | | 0903085 | - | - | | |
| 24 | - | - | 1/1 | | | 17-08 | - | - | | |

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

BFB (ID #7008) Lot No.: CL499 Calibration Group Code / Lot No.: TN 583

Reviewed by: [Signature] Date: 3-18-09 662
 Archer IS # 66535
 Archer IS/SUPV # 66540

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 Instrument ID: 5972HP59 Calibration Date(s): 03/19/09 03/19/09
 Heated Purge: (Y/N) N Calibration Times: 2129 2332
 GC Column: SPB-624 ID: 0.32 (mm)

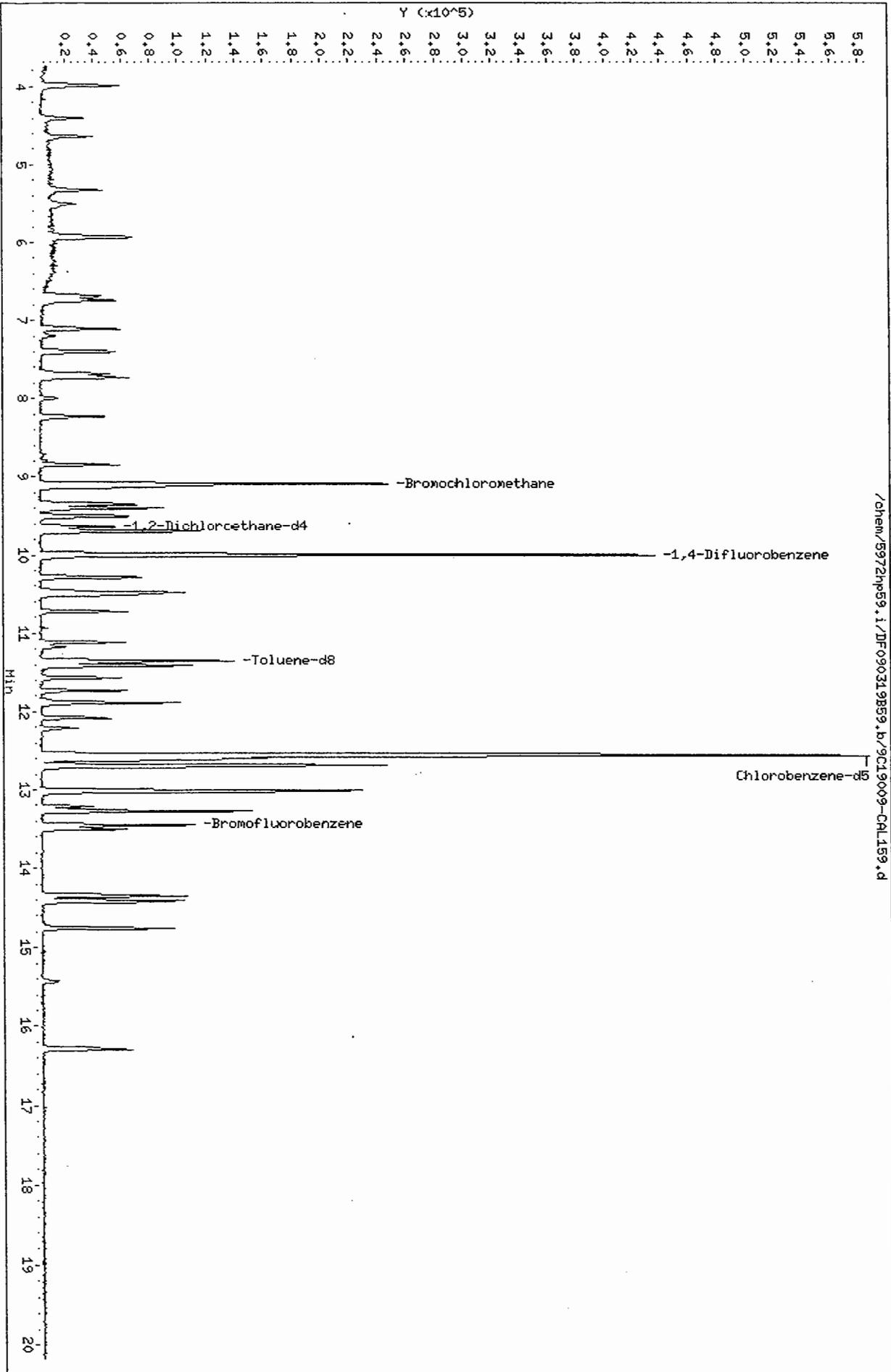
LAB FILE ID: RRF10 = 9C19009-CAL15 RRF20 = 9C19009-CAL25
 RRF50 = 9C19009-CAL35 RRF100 = 9C19009-CAL45 RRF200 = 9C19009-CAL55

| COMPOUND | RRF10 | RRF20 | RRF50 | RRF100 | RRF200 | RRF | % RSD |
|--------------------------|-------|-------|-------|--------|--------|-------|-------|
| Dichlorodifluoromethane | 6.388 | 6.273 | 6.987 | 6.599 | 6.038 | 6.457 | 5.6 |
| Vinyl Chloride * | 3.198 | 3.108 | 3.601 | 3.474 | 3.080 | 3.292 | 7.1* |
| Chloroethane | 1.570 | 1.406 | 1.478 | 1.506 | 1.371 | 1.466 | 5.4 |
| 1,1-Dichloroethene * | 1.527 | 1.478 | 1.586 | 1.657 | 1.595 | 1.569 | 4.3* |
| Methylene Chloride | 2.180 | 2.089 | 2.159 | 2.092 | 2.033 | 2.111 | 2.8 |
| trans-1,2-Dichloroethene | 2.002 | 1.854 | 1.944 | 1.909 | 1.858 | 1.913 | 3.2 |
| 1,1-Dichloroethane * | 4.281 | 4.073 | 4.209 | 4.323 | 4.081 | 4.193 | 2.7* |
| cis-1,2-Dichloroethene | 1.838 | 1.807 | 2.034 | 2.039 | 1.980 | 1.940 | 5.7 |
| 1,1,1-Trichloroethane * | 0.731 | 0.636 | 0.661 | 0.749 | 0.765 | 0.708 | 8.0* |
| Benzene * | 1.324 | 1.319 | 1.334 | 1.368 | 1.395 | 1.348 | 2.4* |
| 1,2-Dichloroethane * | 3.346 | 3.181 | 3.267 | 3.265 | 3.387 | 3.289 | 2.4* |
| Trichloroethene * | 0.328 | 0.313 | 0.311 | 0.356 | 0.370 | 0.336 | 7.8* |
| 1,2-Dichloropropane | 0.378 | 0.338 | 0.343 | 0.364 | 0.362 | 0.357 | 4.6 |
| Tetrachloroethene * | 0.303 | 0.284 | 0.285 | 0.282 | 0.301 | 0.291 | 3.5* |
| Chlorobenzene * | 0.891 | 0.884 | 0.892 | 0.870 | 0.906 | 0.889 | 1.5* |
| 1,4-Dichlorobenzene * | 0.734 | 0.762 | 0.813 | 0.740 | 0.819 | 0.774 | 5.2* |
| Toluene-d8 | 1.603 | 1.560 | 1.225 | 1.217 | 1.178 | 1.357 | 15.2 |
| Bromofluorobenzene * | 0.674 | 0.675 | 0.618 | 0.571 | 0.584 | 0.624 | 7.8* |
| 1,2-Dichloroethane-d4 | 3.753 | 3.562 | 2.892 | 3.010 | 2.855 | 3.214 | 12.9 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

Data File: /chem/5972hp59.1/DF090319B59.b/9C19009-CAL159.d
Date: 19-MAR-2009 21:57
Client ID: VSTD010HC
Sample Info: 9C19009-CAL1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.1
Operator: TD
Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL159.d
 Report Date: 20-Mar-2009 17:24

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT
 Data file : /chem/5972hp59.i/DF090319B59.b/9C19009-CAL159.d
 Lab Smp Id: 9C19009-CAL1 Client Smp ID: VSTD010HC
 Inj Date : 19-MAR-2009 21:57
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9C19009-CAL1:TD
 Misc Info : VSTD010HC
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 21:57 Cal File: 9C19009-CAL159.d
 Als bottle: 2 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | 9.095 | 9.095 | (1.000) | 59659 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 10.002 | 10.002 | (1.000) | 334249 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.555 | 12.555 | (1.000) | 315510 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.637 | 9.637 | (1.060) | 44780 | 50.0000 | 50 |
| \$ 5 Toluene-d8 | 98 | 11.352 | 11.352 | (0.904) | 101152 | 50.0000 | 50 |
| \$ 6 Bromofluorobenzene | 95 | 13.442 | 13.442 | (1.071) | 42545 | 50.0000 | 50 (M) |
| 7 Dichlorodifluoromethane | 85 | 3.989 | 3.989 | (0.439) | 76221 | 50.0000 | 50 |
| 8 Chloromethane | 50 | 4.403 | 4.403 | (0.484) | 39078 | 50.0000 | 50 |
| 9 Vinyl Chloride | 62 | 4.639 | 4.639 | (0.510) | 38157 | 50.0000 | 50 |
| 10 Bromomethane | 94 | 5.329 | 5.329 | (0.586) | 29757 | 50.0000 | 50 |
| 11 Chloroethane | 64 | 5.517 | 5.517 | (0.607) | 18729 | 50.0000 | 50 |
| 12 Trichlorofluoromethane | 101 | 5.931 | 5.931 | (0.652) | 67555 | 50.0000 | 50 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | 6.690 | 6.690 | (0.736) | 25183 | 50.0000 | 50 |
| 14 1,1-Dichloroethene | 96 | 6.749 | 6.749 | (0.742) | 18225 | 50.0000 | 50 |
| 15 Acetone | 43 | 6.778 | 6.778 | (0.745) | 8814 | 50.0000 | 50 |

ZL
3/20/09

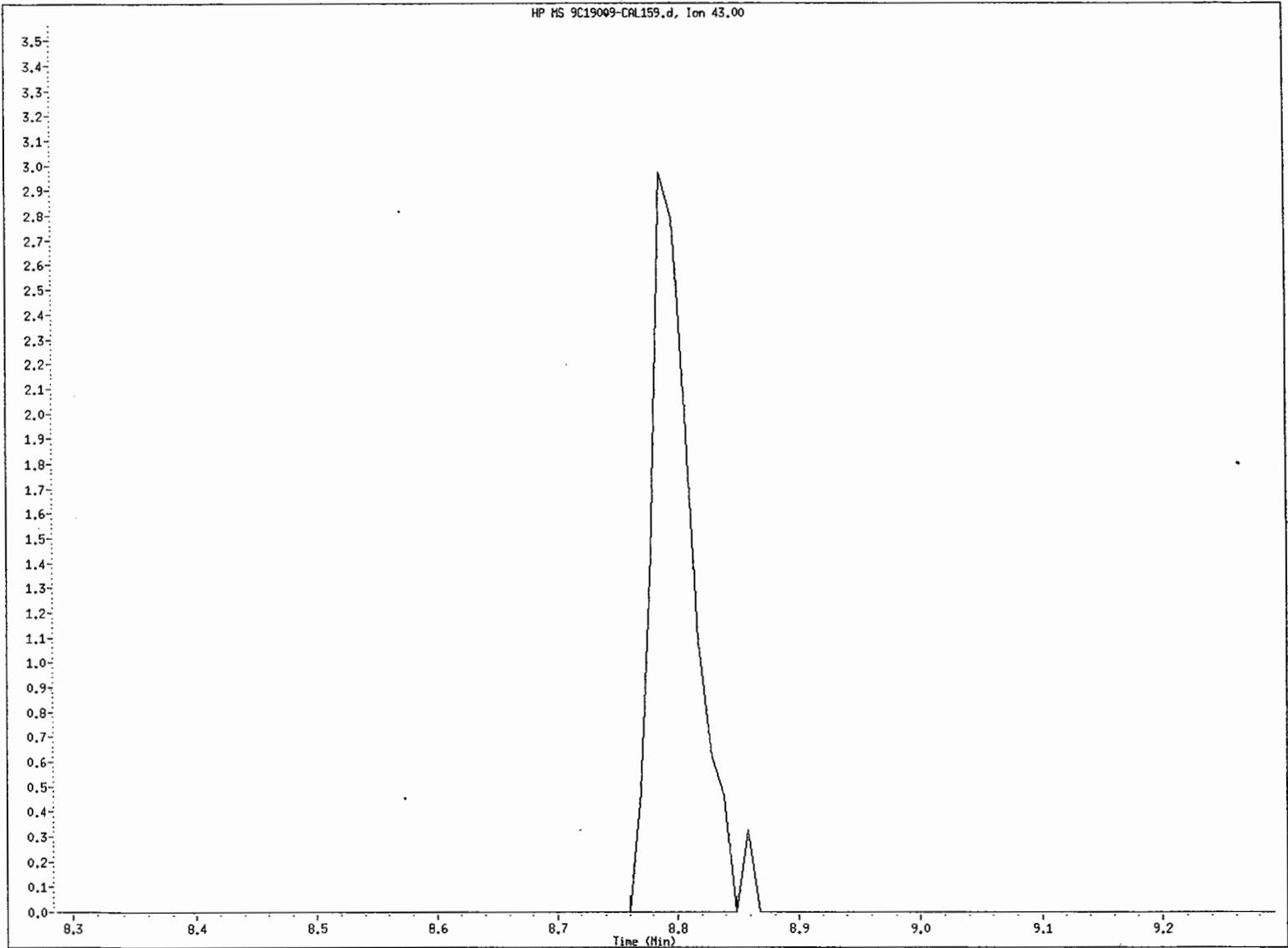
| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| 16 Carbon Disulfide | 76 | 7.114 | 7.114 | (0.782) | 96735 | 50.0000 | 50 |
| 17 Methyl Acetate | 43 | 7.202 | 7.202 | (0.792) | 15556 | 50.0000 | 50 |
| 18 Methylene Chloride | 84 | 7.409 | 7.409 | (0.815) | 26009 | 50.0000 | 50 |
| 19 Methyl tert-Butyl Ether | 73 | 7.685 | 7.685 | (0.845) | 53110 | 50.0000 | 50 |
| 20 trans-1,2-Dichloroethene | 96 | 7.725 | 7.725 | (0.849) | 23886 | 50.0000 | 50 |
| 21 1,1-Dichloroethane | 63 | 8.227 | 8.227 | (0.905) | 51081 | 50.0000 | 50 |
| 22 2-Butanone | 43 | 8.789 | 8.789 | (0.966) | 6994 | 50.0000 | 50 (M) |
| 23 cis-1,2-Dichloroethene | 96 | 8.849 | 8.849 | (0.973) | 21930 | 50.0000 | 50 |
| 24 Chloroform | 83 | 9.125 | 9.125 | (1.003) | 58353 | 50.0000 | 50 |
| 25 1,1,1-Trichloroethane | 97 | 9.351 | 9.351 | (0.935) | 48885 | 50.0000 | 50 |
| 26 Cyclohexane | 56 | 9.401 | 9.401 | (0.940) | 35467 | 50.0000 | 50 |
| 27 Carbon Tetrachloride | 117 | 9.509 | 9.509 | (0.951) | 43221 | 50.0000 | 50 |
| 28 1,2-Dichloroethane | 62 | 9.706 | 9.706 | (1.067) | 39925 | 50.0000 | 50 |
| 29 Benzene | 78 | 9.686 | 9.686 | (0.968) | 88536 | 50.0000 | 50 |
| 30 Trichloroethene | 130 | 10.288 | 10.288 | (1.029) | 21944 | 50.0000 | 50 |
| 31 1,2-Dichloropropane | 63 | 10.505 | 10.505 | (1.050) | 25255 | 50.0000 | 50 |
| 32 Methylcyclohexane | 83 | 10.475 | 10.475 | (1.047) | 34852 | 50.0000 | 50 |
| 33 Bromodichloromethane | 83 | 10.731 | 10.731 | (1.073) | 41127 | 50.0000 | 50 |
| 34 cis-1,3-Dichloropropene | 75 | 11.116 | 11.116 | (1.111) | 36626 | 50.0000 | 50 |
| 35 4-Methyl-2-Pentanone | 43 | 11.175 | 11.175 | (0.890) | 15889 | 50.0000 | 50 |
| 36 Toluene | 91 | 11.412 | 11.412 | (0.909) | 90907 | 50.0000 | 50 |
| 37 trans-1,3-Dichloropropene | 75 | 11.569 | 11.569 | (1.157) | 36782 | 50.0000 | 50 |
| 38 1,1,2-Trichloroethane | 97 | 11.727 | 11.727 | (1.172) | 16889 | 50.0000 | 50 |
| 39 2-Hexanone | 43 | 11.865 | 11.865 | (0.945) | 7969 | 50.0000 | 50 |
| 40 Tetrachloroethene | 164 | 11.885 | 11.885 | (0.947) | 19141 | 50.0000 | 50 |
| 41 Dibromochloromethane | 129 | 12.082 | 12.082 | (1.208) | 24458 | 50.0000 | 50 (M) |
| 42 1,2-Dibromoethane | 107 | 12.210 | 12.210 | (0.973) | 16576 | 50.0000 | 50 |
| 43 Chlorobenzene | 112 | 12.575 | 12.575 | (1.002) | 56236 | 50.0000 | 50 |
| 44 Ethylbenzene | 106 | 12.604 | 12.604 | (1.004) | 28866 | 50.0000 | 50 |
| 45 m,p-Xylene | 106 | 12.683 | 12.683 | (1.010) | 74746 | 100.0000 | 100 |
| 46 o-Xylene | 106 | 13.008 | 13.008 | (1.036) | 35410 | 50.0000 | 50 |
| 47 Styrene | 104 | 13.018 | 13.018 | (1.037) | 56073 | 50.0000 | 50 |
| 48 Bromoform | 173 | 13.215 | 13.215 | (1.321) | 15241 | 50.0000 | 50 |
| 49 Isopropylbenzene | 105 | 13.265 | 13.265 | (1.057) | 100276 | 50.0000 | 50 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.491 | 13.491 | (1.075) | 31079 | 50.0000 | 50 |
| 51 1,3-Dichlorobenzene | 146 | 14.339 | 14.339 | (1.142) | 44115 | 50.0000 | 50 |
| 52 1,4-Dichlorobenzene | 146 | 14.418 | 14.418 | (1.148) | 46307 | 50.0000 | 50 |
| 53 1,2-Dichlorobenzene | 146 | 14.753 | 14.753 | (1.175) | 41255 | 50.0000 | 50 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.424 | 15.424 | (1.228) | 5608 | 50.0000 | 50 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.281 | 16.281 | (1.297) | 22964 | 50.0000 | 50 |
| M 56 Xylene (Total) | 106 | | | | 110156 | 50.0000 | 160 |

Handwritten signature and scribbles on the right side of the table, including a large vertical line and the text '3/20'.

QC Flag Legend

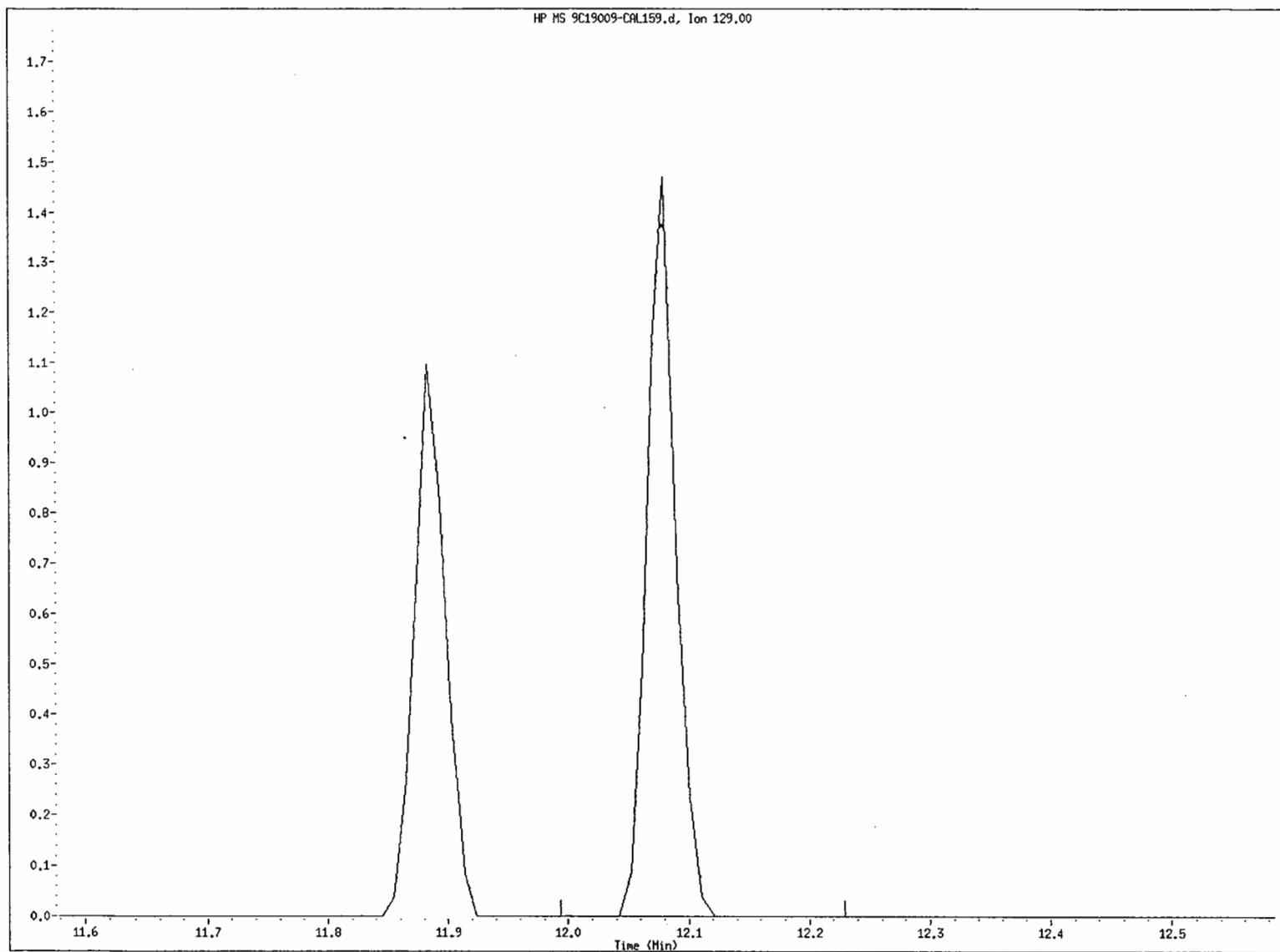
M - Compound response manually integrated.

2-Butanone CAS Number 78-93-3 Area = 6994 Manually integrated



File name: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL159.d
Client ID: VSTD010HC
Instrument ID: 5972hp59.i
Injection Date and Time: 19-MAR-2009 21:57
Retention Time: 8.79
Operator ID: TD

Dibromochloromethane CAS Number 124-48-1 Area = 24458 Manually integrated



File name: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL159.d

Client ID: VSTD010HC

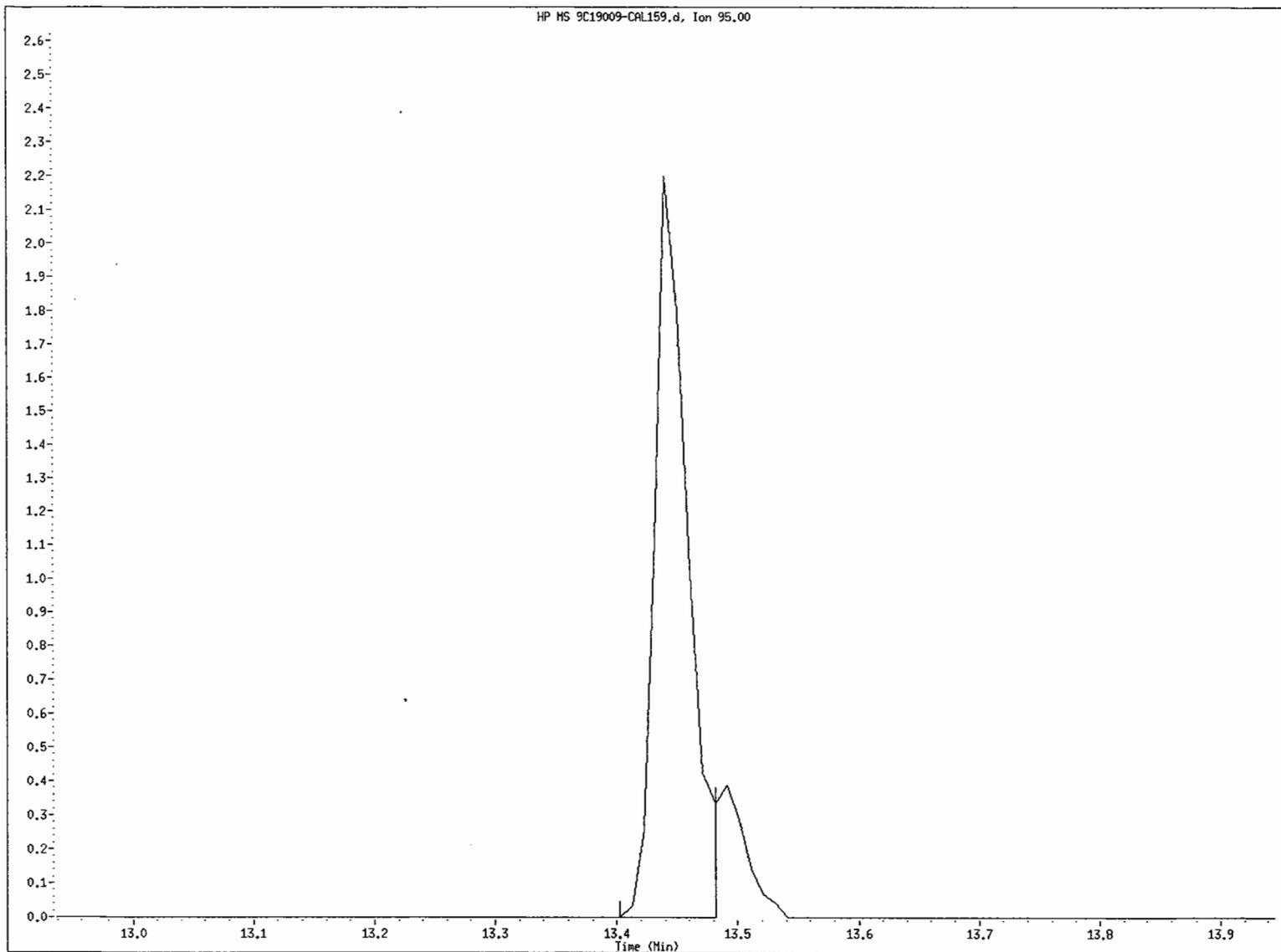
Instrument ID: 5972hp59.i

Injection Date and Time: 19-MAR-2009 21:57

Retention Time: 12.08

Operator ID: TD

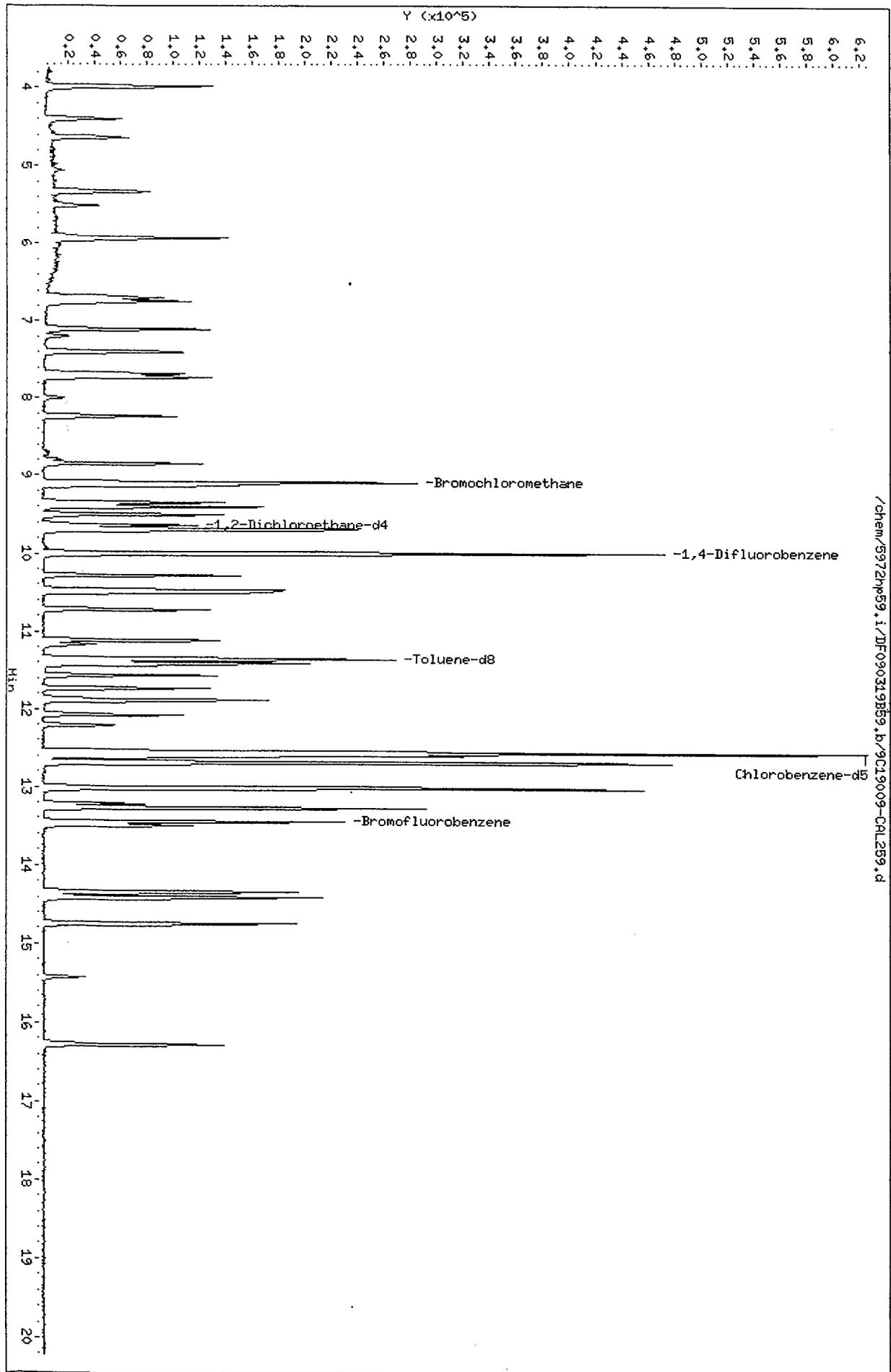
Bromofluorobenzene CAS Number 460-00-4 Area = 42545 Manually integrated



File name: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL159.d
Client ID: VSTD010HC
Instrument ID: 5972hp59.i
Injection Date and Time: 19-MAR-2009 21:57
Retention Time: 13.44
Operator ID: TD

Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL259.d
Date: 19-MAR-2009 21:29
Client ID: VSTID020HC
Sample Info: 9C19009-CAL2:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL259.d
 Report Date: 20-Mar-2009 17:24

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9C19009-CAL259.d
 Lab Smp Id: 9C19009-CAL2 Client Smp ID: VSTD020HC
 Inj Date : 19-MAR-2009 21:29
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9C19009-CAL2:TD
 Misc Info : VSTD020HC
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 21:29 Cal File: 9C19009-CAL259.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|--------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | 9.092 | 9.092 | (1.000) | 64724 | 250.000 | | |
| * 2 1,4-Difluorobenzene | 114 | 9.999 | 9.999 | (1.000) | 365360 | 250.000 | | |
| * 3 Chlorobenzene-d5 | 117 | 12.552 | 12.552 | (1.000) | 320246 | 250.000 | | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.634 | 9.634 | (1.060) | 92206 | 100.000 | 97 | |
| \$ 5 Toluene-d8 | 98 | 11.350 | 11.350 | (0.904) | 199861 | 100.000 | 99 | |
| * 6 Bromofluorobenzene | 95 | 13.449 | 13.449 | (1.071) | 86408 | 100.000 | 100 | |
| 7 Dichlorodifluoromethane | 85 | 3.986 | 3.986 | (0.438) | 162418 | 100.000 | 99 | |
| 8 Chloromethane | 50 | 4.400 | 4.400 | (0.484) | 80391 | 100.000 | 97 | |
| 9 Vinyl Chloride | 62 | 4.636 | 4.636 | (0.510) | 80453 | 100.000 | 99 | |
| 10 Bromomethane | 94 | 5.327 | 5.327 | (0.586) | 56692 | 100.000 | 94 | |
| 11 Chloroethane | 64 | 5.514 | 5.514 | (0.606) | 36398 | 100.000 | 94 | |
| 12 Trichlorofluoromethane | 101 | 5.928 | 5.928 | (0.652) | 157140 | 100.000 | 100 | |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | 6.697 | 6.697 | (0.737) | 53432 | 100.000 | 99 | |
| 14 1,1-Dichloroethene | 96 | 6.736 | 6.736 | (0.741) | 38273 | 100.000 | 98 | |
| 15 Acetone | 43 | 6.785 | 6.785 | (0.746) | 16210 | 100.000 | 92 | |

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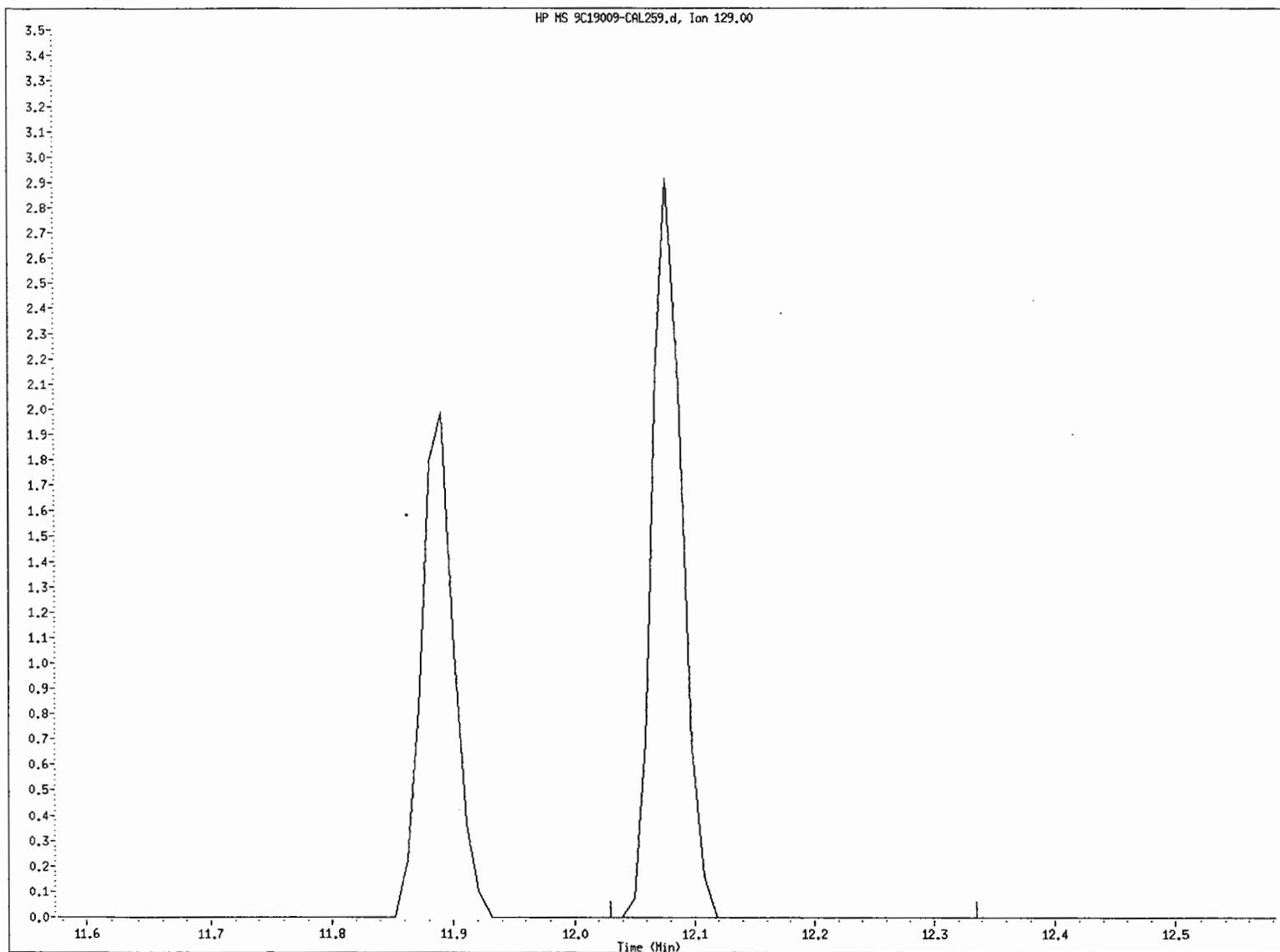
| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 16 Carbon Disulfide | 76 | 7.111 | 7.111 | (0.782) | 203521 | 100.000 | 98 |
| 17 Methyl Acetate | 43 | 7.199 | 7.199 | (0.792) | 29411 | 100.000 | 93 |
| 18 Methylene Chloride | 84 | 7.406 | 7.406 | (0.815) | 54071 | 100.000 | 98 |
| 19 Methyl tert-Butyl Ether | 73 | 7.683 | 7.683 | (0.845) | 121802 | 100.000 | 100 |
| 20 trans-1,2-Dichloroethene | 96 | 7.732 | 7.732 | (0.850) | 48008 | 100.000 | 96 |
| 21 1,1-Dichloroethane | 63 | 8.235 | 8.235 | (0.906) | 105460 | 100.000 | 98 |
| 22 2-Butanone | 43 | 8.796 | 8.796 | (0.967) | 17919 | 100.000 | 110 |
| 23 cis-1,2-Dichloroethene | 96 | 8.846 | 8.846 | (0.973) | 46789 | 100.000 | 99 |
| 24 Chloroform | 83 | 9.132 | 9.132 | (1.004) | 115770 | 100.000 | 96 |
| 25 1,1,1-Trichloroethane | 97 | 9.348 | 9.348 | (0.935) | 92918 | 100.000 | 93 |
| 26 Cyclohexane | 56 | 9.398 | 9.398 | (0.940) | 76510 | 100.000 | 99 |
| 27 Carbon Tetrachloride | 117 | 9.506 | 9.506 | (0.951) | 84116 | 100.000 | 94 |
| 28 1,2-Dichloroethane | 62 | 9.703 | 9.703 | (1.067) | 82343 | 100.000 | 97 |
| 29 Benzene | 78 | 9.684 | 9.684 | (0.968) | 192737 | 100.000 | 100 |
| 30 Trichloroethene | 130 | 10.285 | 10.285 | (1.029) | 45810 | 100.000 | 98 |
| 31 1,2-Dichloropropane | 63 | 10.502 | 10.502 | (1.050) | 49357 | 100.000 | 94 |
| 32 Methylcyclohexane | 83 | 10.472 | 10.472 | (1.047) | 71715 | 100.000 | 97 |
| 33 Bromodichloromethane | 83 | 10.729 | 10.729 | (1.073) | 85908 | 100.000 | 98 |
| 34 cis-1,3-Dichloropropene | 75 | 11.113 | 11.113 | (1.111) | 78317 | 100.000 | 99 |
| 35 4-Methyl-2-Pentanone | 43 | 11.172 | 11.172 | (0.890) | 35733 | 100.000 | 110 |
| 36 Toluene | 91 | 11.409 | 11.409 | (0.909) | 175924 | 100.000 | 98 |
| 37 trans-1,3-Dichloropropene | 75 | 11.566 | 11.566 | (1.157) | 75506 | 100.000 | 97 |
| 38 1,1,2-Trichloroethane | 97 | 11.734 | 11.734 | (1.173) | 33683 | 100.000 | 95 |
| 39 2-Hexanone | 43 | 11.862 | 11.862 | (0.945) | 23995 | 100.000 | 120 |
| 40 Tetrachloroethene | 164 | 11.892 | 11.892 | (0.947) | 36421 | 100.000 | 97 |
| 41 Dibromochloromethane | 129 | 12.079 | 12.079 | (1.208) | 51596 | 100.000 | 98 (M) |
| 42 1,2-Dibromoethane | 107 | 12.207 | 12.207 | (0.973) | 36051 | 100.000 | 100 |
| 43 Chlorobenzene | 112 | 12.582 | 12.582 | (1.002) | 113204 | 100.000 | 100 |
| 44 Ethylbenzene | 106 | 12.601 | 12.601 | (1.004) | 58091 | 100.000 | 100 |
| 45 m,p-Xylene | 106 | 12.690 | 12.690 | (1.011) | 144182 | 200.000 | 190 |
| 46 o-Xylene | 106 | 13.006 | 13.006 | (1.036) | 68670 | 100.000 | 98 |
| 47 Styrene | 104 | 13.015 | 13.015 | (1.037) | 115985 | 100.000 | 100 |
| 48 Bromoform | 173 | 13.213 | 13.213 | (1.321) | 31626 | 100.000 | 97 |
| 49 Isopropylbenzene | 105 | 13.272 | 13.272 | (1.057) | 203582 | 100.000 | 100 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.498 | 13.498 | (1.075) | 61511 | 100.000 | 99 |
| 51 1,3-Dichlorobenzene | 146 | 14.346 | 14.346 | (1.143) | 88559 | 100.000 | 99 |
| 52 1,4-Dichlorobenzene | 146 | 14.415 | 14.415 | (1.148) | 97550 | 100.000 | 100 |
| 53 1,2-Dichlorobenzene | 146 | 14.750 | 14.750 | (1.175) | 81095 | 100.000 | 98 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.431 | 15.431 | (1.229) | 11797 | 100.000 | 100 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.278 | 16.278 | (1.297) | 51815 | 100.000 | 110 |
| M 56 Xylene (Total) | 106 | | | | 212852 | 100.000 | 300 |

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 3/20/09

QC Flag Legend

M - Compound response manually integrated.

Dibromochloromethane CAS Number 124-48-1 Area = 51596 Manually integrated



File name: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL259.d

Client ID: VSTD020HC

Instrument ID: 5972hp59.i

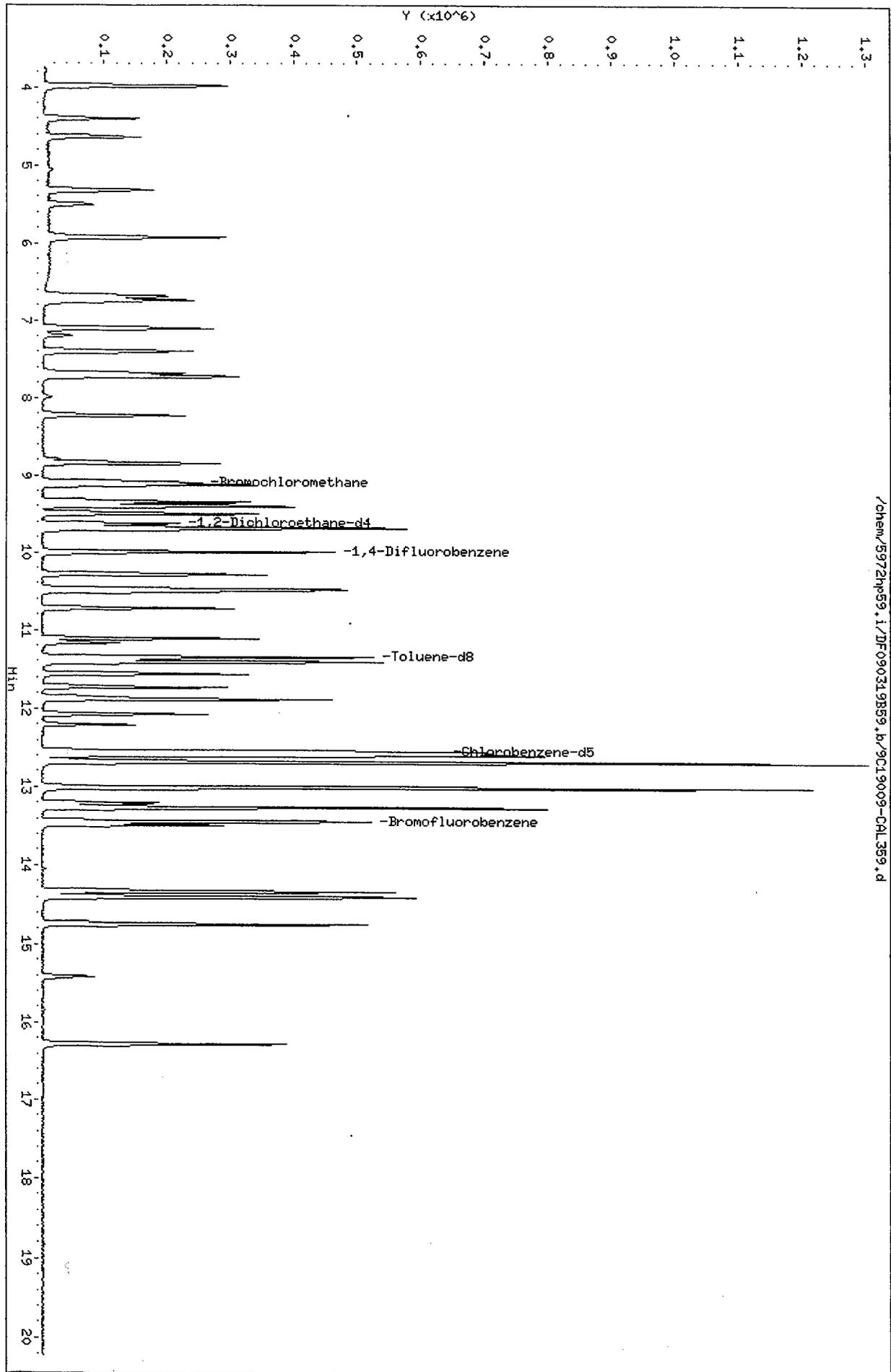
Injection Date and Time: 19-MAR-2009 21:29

Retention Time: 12.08

Operator ID: TD

Data File: /chem/5972hp59.i/DF090319859.b/9C19009-CAL359.d
Date : 19-MAR-2009 23:32
Client ID: VSTI050HC
Sample Info: 9C19009-CAL3:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



/chem/5972hp59.i/DF090319859.b/9C19009-CAL359.d

Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL359.d
 Report Date: 20-Mar-2009 17:24

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9C19009-CAL359.d
 Lab Smp Id: 9C19009-CAL3 Client Smp ID: VSTD050HC
 Inj Date : 19-MAR-2009 23:32
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9C19009-CAL3:TD
 Misc Info : VSTD050HC
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

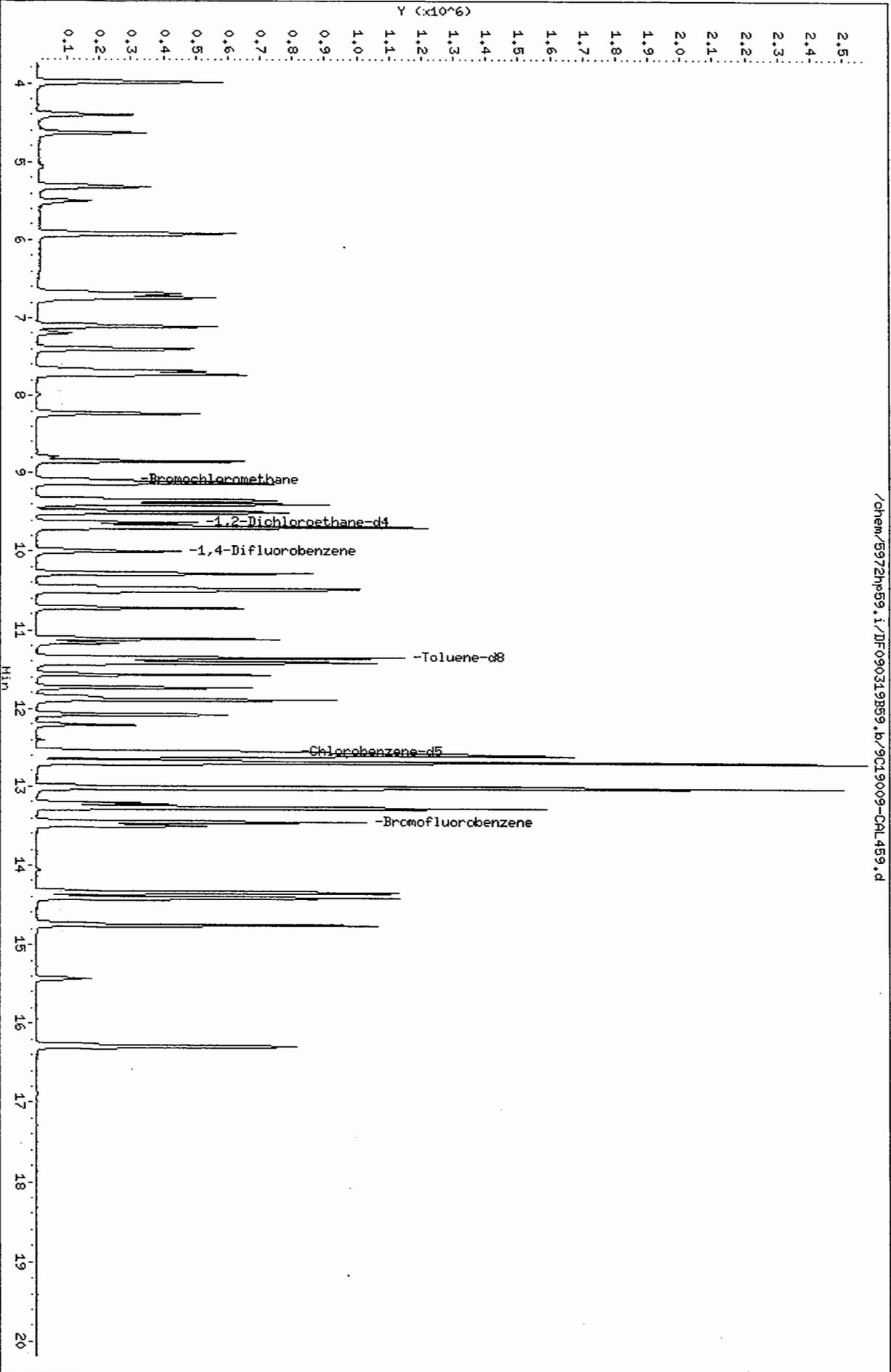
Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | | 128 | 9.086 | 9.086 | (1.000) | 56700 | 250.000 | |
| * 2 1,4-Difluorobenzene | | 114 | 9.993 | 9.993 | (1.000) | 338210 | 250.000 | |
| * 3 Chlorobenzene-d5 | | 117 | 12.546 | 12.546 | (1.000) | 311749 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | | 65 | 9.628 | 9.628 | (1.060) | 163974 | 250.000 | 210 |
| \$ 5 Toluene-d8 | | 98 | 11.343 | 11.343 | (0.904) | 381737 | 250.000 | 210 |
| c 6 Bromofluorobenzene | | 95 | 13.443 | 13.443 | (1.071) | 192545 | 250.000 | 240 |
| 7 Dichlorodifluoromethane | | 85 | 3.989 | 3.989 | (0.439) | 396161 | 250.000 | 270 |
| 8 Chloromethane | | 50 | 4.394 | 4.394 | (0.484) | 210591 | 250.000 | 280 |
| 9 Vinyl Chloride | | 62 | 4.630 | 4.630 | (0.510) | 204165 | 250.000 | 270 |
| 10 Bromomethane | | 94 | 5.320 | 5.320 | (0.586) | 151623 | 250.000 | 270 |
| 11 Chloroethane | | 64 | 5.507 | 5.507 | (0.606) | 83784 | 250.000 | 250 |
| 12 Trichlorofluoromethane | | 101 | 5.921 | 5.921 | (0.652) | 342565 | 250.000 | 250 |
| 13 1,1,2-trichloro-1,2,2-trifluo | | 101 | 6.690 | 6.690 | (0.736) | 121427 | 250.000 | 250 |
| 14 1,1-Dichloroethene | | 96 | 6.740 | 6.740 | (0.742) | 89951 | 250.000 | 260 |
| 15 Acetone | | 43 | 6.769 | 6.769 | (0.745) | 38365 | 250.000 | 250 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ----- | ---- | == | ----- | ----- | ----- | ----- | ----- |
| 16 Carbon Disulfide | 76 | 7.104 | 7.104 | (0.782) | 456685 | 250.000 | 250 |
| 17 Methyl Acetate | 43 | 7.193 | 7.193 | (0.792) | 71168 | 250.000 | 250 |
| 18 Methylene Chloride | 84 | 7.400 | 7.400 | (0.814) | 122418 | 250.000 | 250 |
| 19 Methyl tert-Butyl Ether | 73 | 7.676 | 7.676 | (0.845) | 275003 | 250.000 | 260 |
| 20 trans-1,2-Dichloroethene | 96 | 7.725 | 7.725 | (0.850) | 110250 | 250.000 | 250 |
| 21 1,1-Dichloroethane | 63 | 8.228 | 8.228 | (0.906) | 238631 | 250.000 | 250 |
| 22 2-Butanone | 43 | 8.790 | 8.790 | (0.967) | 41841 | 250.000 | 270 |
| 23 cis-1,2-Dichloroethene | 96 | 8.839 | 8.839 | (0.973) | 115342 | 250.000 | 270 |
| 24 Chloroform | 83 | 9.125 | 9.125 | (1.004) | 269625 | 250.000 | 250 |
| 25 1,1,1-Trichloroethane | 97 | 9.342 | 9.342 | (0.935) | 223433 | 250.000 | 240 |
| 26 Cyclohexane | 56 | 9.401 | 9.401 | (0.941) | 180854 | 250.000 | 250 |
| 27 Carbon Tetrachloride | 117 | 9.500 | 9.500 | (0.951) | 202203 | 250.000 | 250 |
| 28 1,2-Dichloroethane | 62 | 9.707 | 9.707 | (1.068) | 185238 | 250.000 | 250 |
| 29 Benzene | 78 | 9.687 | 9.687 | (0.969) | 451282 | 250.000 | 250 |
| 30 Trichloroethene | 130 | 10.279 | 10.279 | (1.029) | 105227 | 250.000 | 240 |
| 31 1,2-Dichloropropane | 63 | 10.505 | 10.505 | (1.051) | 115937 | 250.000 | 240 |
| 32 Methylcyclohexane | 83 | 10.466 | 10.466 | (1.047) | 192096 | 250.000 | 270 |
| 33 Bromodichloromethane | 83 | 10.722 | 10.722 | (1.073) | 196621 | 250.000 | 240 |
| 34 cis-1,3-Dichloropropene | 75 | 11.107 | 11.107 | (1.111) | 189821 | 250.000 | 260 |
| 35 4-Methyl-2-Pentanone | 43 | 11.166 | 11.166 | (0.890) | 97718 | 250.000 | 280 |
| 36 Toluene | 91 | 11.402 | 11.402 | (0.909) | 462338 | 250.000 | 260 |
| 37 trans-1,3-Dichloropropene | 75 | 11.560 | 11.560 | (1.157) | 179178 | 250.000 | 250 |
| 38 1,1,2-Trichloroethane | 97 | 11.728 | 11.728 | (1.174) | 79244 | 250.000 | 240 |
| 39 2-Hexanone | 43 | 11.846 | 11.846 | (0.944) | 67668 | 250.000 | 310 |
| 40 Tetrachloroethene | 164 | 11.885 | 11.885 | (0.947) | 88862 | 250.000 | 240 |
| 41 Dibromochloromethane | 129 | 12.073 | 12.073 | (1.208) | 124833 | 250.000 | 250 |
| 42 1,2-Dibromoethane | 107 | 12.211 | 12.211 | (0.973) | 91909 | 250.000 | 260 |
| 43 Chlorobenzene | 112 | 12.575 | 12.575 | (1.002) | 278098 | 250.000 | 250 |
| 44 Ethylbenzene | 106 | 12.605 | 12.605 | (1.005) | 144534 | 250.000 | 250 |
| 45 m,p-Xylene | 106 | 12.684 | 12.684 | (1.011) | 383536 | 500.000 | 520 |
| 46 o-Xylene | 106 | 13.009 | 13.009 | (1.037) | 177949 | 250.000 | 260 |
| 47 Styrene | 104 | 13.009 | 13.009 | (1.037) | 300334 | 250.000 | 260 |
| 48 Bromoform | 173 | 13.216 | 13.216 | (1.323) | 76585 | 250.000 | 250 |
| 49 Isopropylbenzene | 105 | 13.265 | 13.265 | (1.057) | 548254 | 250.000 | 270 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.492 | 13.492 | (1.075) | 153719 | 250.000 | 250 |
| 51 1,3-Dichlorobenzene | 146 | 14.340 | 14.340 | (1.143) | 239565 | 250.000 | 270 |
| 52 1,4-Dichlorobenzene | 146 | 14.409 | 14.409 | (1.149) | 253313 | 250.000 | 260 |
| 53 1,2-Dichlorobenzene | 146 | 14.744 | 14.744 | (1.175) | 222862 | 250.000 | 270 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.424 | 15.424 | (1.229) | 31082 | 250.000 | 270 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.272 | 16.272 | (1.297) | 141401 | 250.000 | 280 |
| M 56 Xylene (Total) | 106 | | | | 561485 | 250.000 | 810 |

Data File: /chem/5972hp59.i/DF090319859.b/9C19009-CAL459.d
Date: 19-MAR-2009 23:04
Client ID: VSTD100HC
Sample Info: 9C19009-CAL4:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL459.d
 Report Date: 20-Mar-2009 17:24

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9C19009-CAL459.d
 Lab Smp Id: 9C19009-CAL4 Client Smp ID: VSTD100HC
 Inj Date : 19-MAR-2009 23:04
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9C19009-CAL4:TD
 Misc Info : VSTD100HC
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

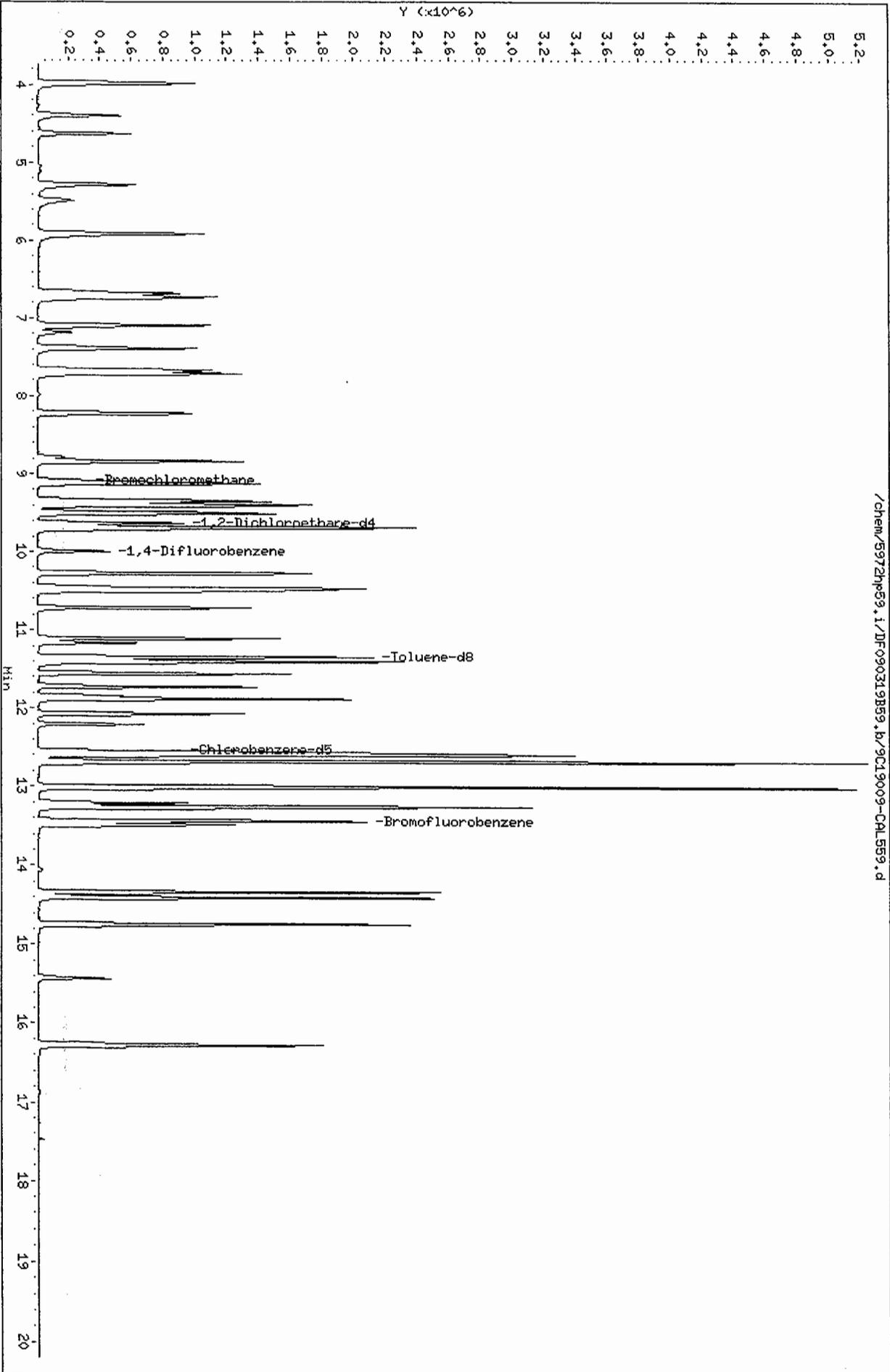
| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | 9.087 | 9.087 | (1.000) | 61809 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 9.994 | 9.994 | (1.000) | 345578 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.547 | 12.547 | (1.000) | 344330 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.630 | 9.630 | (1.060) | 372085 | 500.000 | 460 |
| \$ 5 Toluene-d8 | 98 | 11.345 | 11.345 | (0.904) | 838305 | 500.000 | 430 |
| ^ 6 Bromofluorobenzene | 95 | 13.445 | 13.445 | (1.071) | 393489 | 500.000 | 450 |
| 7 Dichlorodifluoromethane | 85 | 3.981 | 3.981 | (0.438) | 815811 | 500.000 | 500 |
| 8 Chloromethane | 50 | 4.395 | 4.395 | (0.484) | 421511 | 500.000 | 500 |
| 9 Vinyl Chloride | 62 | 4.632 | 4.632 | (0.510) | 429497 | 500.000 | 520 |
| 10 Bromomethane | 94 | 5.322 | 5.322 | (0.586) | 334407 | 500.000 | 540 |
| 11 Chloroethane | 64 | 5.499 | 5.499 | (0.605) | 186221 | 500.000 | 510 |
| 12 Trichlorofluoromethane | 101 | 5.923 | 5.923 | (0.652) | 752604 | 500.000 | 510 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | 6.682 | 6.682 | (0.735) | 276568 | 500.000 | 520 |
| 14 1,1-Dichloroethene | 96 | 6.741 | 6.741 | (0.742) | 204775 | 500.000 | 530 |
| 15 Acetone | 43 | 6.781 | 6.781 | (0.746) | 71201 | 500.000 | 440 |

[Handwritten signature]
3/20/09

| Compounds | QUANT | SIG | | | | | | AMOUNTS | |
|--------------------------------|-------|-----|--------|--------|---------|---------|----------|------------------|-----------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== | ===== | |
| 16 Carbon Disulfide | 76 | | 7.106 | 7.106 | (0.782) | 982993 | 500.000 | 500 | |
| 17 Methyl Acetate | 43 | | 7.195 | 7.195 | (0.792) | 158633 | 500.000 | 520 | |
| 18 Methylene Chloride | 84 | | 7.392 | 7.392 | (0.813) | 258558 | 500.000 | 490 | |
| 19 Methyl tert-Butyl Ether | 73 | | 7.678 | 7.678 | (0.845) | 646205 | 500.000 | 540 | |
| 20 trans-1,2-Dichloroethene | 96 | | 7.727 | 7.727 | (0.850) | 236025 | 500.000 | 500 | |
| 21 1,1-Dichloroethane | 63 | | 8.230 | 8.230 | (0.906) | 534441 | 500.000 | 510 | |
| 22 2-Butanone | 43 | | 8.792 | 8.792 | (0.967) | 90928 | 500.000 | 530 | |
| 23 cis-1,2-Dichloroethene | 96 | | 8.841 | 8.841 | (0.973) | 252019 | 500.000 | 530 | |
| 24 Chloroform | 83 | | 9.127 | 9.127 | (1.004) | 601272 | 500.000 | 510 | |
| 25 1,1,1-Trichloroethane | 97 | | 9.344 | 9.344 | (0.935) | 517781 | 500.000 | 540 | |
| 26 Cyclohexane | 56 | | 9.393 | 9.393 | (0.940) | 426167 | 500.000 | 560 | |
| 27 Carbon Tetrachloride | 117 | | 9.501 | 9.501 | (0.951) | 470832 | 500.000 | 540 | |
| 28 1,2-Dichloroethane | 62 | | 9.699 | 9.699 | (1.067) | 403673 | 500.000 | 500 | |
| 29 Benzene | 78 | | 9.679 | 9.679 | (0.968) | 945510 | 500.000 | 510 | |
| 30 Trichloroethene | 130 | | 10.280 | 10.280 | (1.029) | 245920 | 500.000 | 540 | |
| 31 1,2-Dichloropropane | 63 | | 10.497 | 10.497 | (1.050) | 251850 | 500.000 | 510 | |
| 32 Methylcyclohexane | 83 | | 10.468 | 10.468 | (1.047) | 417812 | 500.000 | 550 | |
| 33 Bromodichloromethane | 83 | | 10.724 | 10.724 | (1.073) | 436805 | 500.000 | 520 | |
| 34 cis-1,3-Dichloropropene | 75 | | 11.108 | 11.108 | (1.111) | 435520 | 500.000 | 550 | |
| 35 4-Methyl-2-Pentanone | 43 | | 11.167 | 11.167 | (0.890) | 206040 | 500.000 | 520 | |
| 36 Toluene | 91 | | 11.404 | 11.404 | (0.909) | 918440 | 500.000 | 470 | |
| 37 trans-1,3-Dichloropropene | 75 | | 11.562 | 11.562 | (1.157) | 414738 | 500.000 | 550 | |
| 38 1,1,2-Trichloroethane | 97 | | 11.729 | 11.729 | (1.174) | 185927 | 500.000 | 550 | |
| 39 2-Hexanone | 43 | | 11.848 | 11.848 | (0.944) | 150158 | 500.000 | 580 | |
| 40 Tetrachloroethene | 164 | | 11.887 | 11.887 | (0.947) | 194011 | 500.000 | 490 | |
| 41 Dibromochloromethane | 129 | | 12.074 | 12.074 | (1.208) | 287730 | 500.000 | 550 | |
| 42 1,2-Dibromoethane | 107 | | 12.212 | 12.212 | (0.973) | 200978 | 500.000 | 520 | |
| 43 Chlorobenzene | 112 | | 12.577 | 12.577 | (1.002) | 598922 | 500.000 | 490 | |
| 44 Ethylbenzene | 106 | | 12.597 | 12.597 | (1.004) | 308304 | 500.000 | 490 | |
| 45 m,p-Xylene | 106 | | 12.685 | 12.685 | (1.011) | 782644 | 1000.00 | 970 | |
| 46 o-Xylene | 106 | | 13.011 | 13.011 | (1.037) | 389071 | 500.000 | 510 | |
| 47 Styrene | 104 | | 13.011 | 13.011 | (1.037) | 643518 | 500.000 | 510 | |
| 48 Bromoform | 173 | | 13.208 | 13.208 | (1.322) | 162951 | 500.000 | 520 | |
| 49 Isopropylbenzene | 105 | | 13.267 | 13.267 | (1.057) | 1109895 | 500.000 | 490 | |
| 50 1,1,2,2-Tetrachloroethane | 83 | | 13.484 | 13.484 | (1.075) | 302918 | 500.000 | 460 | |
| 51 1,3-Dichlorobenzene | 146 | | 14.342 | 14.342 | (1.143) | 491184 | 500.000 | 500 | |
| 52 1,4-Dichlorobenzene | 146 | | 14.411 | 14.411 | (1.148) | 509603 | 500.000 | 490 | |
| 53 1,2-Dichlorobenzene | 146 | | 14.746 | 14.746 | (1.175) | 457660 | 500.000 | 500 | |
| 54 1,2-Dibromo-3-Chloropropane | 75 | | 15.426 | 15.426 | (1.229) | 55138 | 500.000 | 440 | |
| 55 1,2,4-Trichlorobenzene | 180 | | 16.274 | 16.274 | (1.297) | 306796 | 500.000 | 530 | |
| M 56 Xylene (Total) | 106 | | | | | 1171715 | 500.000 | 1500 | |

Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL559.d
Date: 19-MAR-2009 22:36
Client ID: VSTD200HC
Sample Info: 9C19009-CAL5:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



/chem/5972hp59.i/DF090319B59.b/9C19009-CAL559.d

Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-CAL559.d
 Report Date: 20-Mar-2009 17:24

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9C19009-CAL559.d
 Lab Smp Id: 9C19009-CAL5 Client Smp ID: VSTD200HC
 Inj Date : 19-MAR-2009 22:36
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9C19009-CAL5:TD
 Misc Info : VSTD200HC
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 3 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | | 9.087 | 9.087 | (1.000) | 63371 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | | 9.994 | 9.994 | (1.000) | 345738 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | | 12.547 | 12.547 | (1.000) | 345427 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | | 9.629 | 9.629 | (1.060) | 723716 | 1000.00 | 890 |
| \$ 5 Toluene-d8 | .98 | | 11.344 | 11.344 | (0.904) | 1627947 | 1000.00 | 870 |
| \$ 6 Bromofluorobenzene | 95 | | 13.444 | 13.444 | (1.071) | 806234 | 1000.00 | 930 |
| 7 Dichlorodifluoromethane | 85 | | 3.991 | 3.991 | (0.439) | 1530547 | 1000.00 | 940 |
| 8 Chloromethane | 50 | | 4.405 | 4.405 | (0.485) | 790841 | 1000.00 | 940 |
| 9 Vinyl Chloride | 62 | | 4.631 | 4.631 | (0.510) | 780759 | 1000.00 | 940 |
| 10 Bromomethane | 94 | | 5.292 | 5.292 | (0.582) | 605948 | 1000.00 | 960 |
| 11 Chloroethane | 64 | | 5.489 | 5.489 | (0.604) | 347445 | 1000.00 | 930 |
| 12 Trichlorofluoromethane | 101 | | 5.923 | 5.923 | (0.652) | 1447926 | 1000.00 | 970 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | | 6.682 | 6.682 | (0.735) | 553145 | 1000.00 | 1000 (A) |
| 14 1,1-Dichloroethene | 96 | | 6.731 | 6.731 | (0.741) | 404333 | 1000.00 | 1000 (A) |
| 15 Acetone | 43 | | 6.771 | 6.771 | (0.745) | 151216 | 1000.00 | 930 |

Handwritten signature and date:
 3/25/09

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ----- | ---- | == | ----- | ----- | ----- | ----- | ----- |
| 16 Carbon Disulfide | 76 | 7.096 | 7.096 | (0.781) | 1922381 | 1000.00 | 960 |
| 17 Methyl Acetate | 43 | 7.194 | 7.194 | (0.792) | 329461 | 1000.00 | 1000 (A) |
| 18 Methylene Chloride | 84 | 7.392 | 7.392 | (0.813) | 515331 | 1000.00 | 960 |
| 19 Methyl tert-Butyl Ether | 73 | 7.677 | 7.677 | (0.845) | 1407914 | 1000.00 | 1100 (A) |
| 20 trans-1,2-Dichloroethene | 96 | 7.727 | 7.727 | (0.850) | 470896 | 1000.00 | 970 |
| 21 1,1-Dichloroethane | 63 | 8.229 | 8.229 | (0.906) | 1034551 | 1000.00 | 970 |
| 22 2-Butanone | 43 | 8.791 | 8.791 | (0.967) | 222302 | 1000.00 | 1200 (A) |
| 23 cis-1,2-Dichloroethene | 96 | 8.841 | 8.841 | (0.973) | 501972 | 1000.00 | 1000 (A) |
| 24 Chloroform | 83 | 9.117 | 9.117 | (1.003) | 1176276 | 1000.00 | 980 |
| 25 1,1,1-Trichloroethane | 97 | 9.343 | 9.343 | (0.935) | 1058253 | 1000.00 | 1100 (A) |
| 26 Cyclohexane | 56 | 9.393 | 9.393 | (0.940) | 827649 | 1000.00 | 1100 (A) |
| 27 Carbon Tetrachloride | 117 | 9.501 | 9.501 | (0.951) | 953027 | 1000.00 | 1100 (A) |
| 28 1,2-Dichloroethane | 62 | 9.698 | 9.698 | (1.067) | 858609 | 1000.00 | 1000 (A) |
| 29 Benzene | 78 | 9.679 | 9.679 | (0.968) | 1928881 | 1000.00 | 1000 (A) |
| 30 Trichloroethene | 130 | 10.280 | 10.280 | (1.029) | 511593 | 1000.00 | 1100 (A) |
| 31 1,2-Dichloropropane | 63 | 10.497 | 10.497 | (1.050) | 500153 | 1000.00 | 1000 (A) |
| 32 Methylcyclohexane | 83 | 10.467 | 10.467 | (1.047) | 860071 | 1000.00 | 1100 (A) |
| 33 Bromodichloromethane | 83 | 10.723 | 10.723 | (1.073) | 929327 | 1000.00 | 1100 (A) |
| 34 cis-1,3-Dichloropropene | 75 | 11.108 | 11.108 | (1.111) | 897389 | 1000.00 | 1100 (A) |
| 35 4-Methyl-2-Pentanone | 43 | 11.157 | 11.157 | (0.889) | 514517 | 1000.00 | 1200 (A) |
| 36 Toluene | 91 | 11.404 | 11.404 | (0.909) | 1925905 | 1000.00 | 990 |
| 37 trans-1,3-Dichloropropene | 75 | 11.561 | 11.561 | (1.157) | 919356 | 1000.00 | 1200 (A) |
| 38 1,1,2-Trichloroethane | 97 | 11.729 | 11.729 | (1.174) | 391100 | 1000.00 | 1100 (A) |
| 39 2-Hexanone | 43 | 11.847 | 11.847 | (0.944) | 393090 | 1000.00 | 1400 (A) |
| 40 Tetrachloroethene | 164 | 11.887 | 11.887 | (0.947) | 415670 | 1000.00 | 1000 (A) |
| 41 Dibromochloromethane | 129 | 12.074 | 12.074 | (1.208) | 625411 | 1000.00 | 1200 (A) |
| 42 1,2-Dibromoethane | 107 | 12.212 | 12.212 | (0.973) | 438028 | 1000.00 | 1100 (A) |
| 43 Chlorobenzene | 112 | 12.577 | 12.577 | (1.002) | 1251312 | 1000.00 | 1000 (A) |
| 44 Ethylbenzene | 106 | 12.596 | 12.596 | (1.004) | 652421 | 1000.00 | 1000 (A) |
| 45 m,p-Xylene | 106 | 12.685 | 12.685 | (1.011) | 1689282 | 2000.00 | 2100 (A) |
| 46 o-Xylene | 106 | 13.001 | 13.001 | (1.036) | 853875 | 1000.00 | 1100 (A) |
| 47 Styrene | 104 | 13.010 | 13.010 | (1.037) | 1369291 | 1000.00 | 1100 (A) |
| 48 Bromoform | 173 | 13.208 | 13.208 | (1.322) | 388424 | 1000.00 | 1200 (A) |
| 49 Isopropylbenzene | 105 | 13.267 | 13.267 | (1.057) | 2257197 | 1000.00 | 1000 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.493 | 13.493 | (1.075) | 689176 | 1000.00 | 1000 (A) |
| 51 1,3-Dichlorobenzene | 146 | 14.341 | 14.341 | (1.143) | 1082616 | 1000.00 | 1100 (A) |
| 52 1,4-Dichlorobenzene | 146 | 14.410 | 14.410 | (1.148) | 1131209 | 1000.00 | 1100 (A) |
| 53 1,2-Dichlorobenzene | 146 | 14.745 | 14.745 | (1.175) | 1003742 | 1000.00 | 1100 (A) |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.426 | 15.426 | (1.229) | 145551 | 1000.00 | 1100 (A) |
| 55 1,2,4-Trichlorobenzene | 180 | 16.273 | 16.273 | (1.297) | 673276 | 1000.00 | 1100 (A) |
| M 56 Xylene (Total) | 106 | | | | 2543157 | 1000.00 | 3200 (A) |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

COMPUCHEM a Division of Liberty Analytical Corp DATE 3/19/09 INITIAL TIME OF TUNE 2110 SHIFT(S) (A) (B) X (C)
GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 9/10 LINKER METHOD WOLAN 4
COMPUCHEM LOGBOOK 11 NNN 26 (5972hps9) PREVENTIVE MAINTENANCE NONE

| FILE NAME | PH | Val | DATE | TIME | Client ID | SDGH | INITIAL VOL | DPH | CHEMIST | COMMENTS (Etc) DISPOSITION |
|--------------|----|-----|---------|------|-------------|---------|-------------|-------|---------|----------------------------|
| 9019005-TUN1 | - | - | 3/19/09 | 2110 | BED | - | 2u1 | - | TD | CCD=SCD |
| CAL2 | - | - | 1/1 | 2129 | VSTD 020 HC | | 10uL | | | |
| CAL1 | - | - | 1/1 | 2157 | O10 HC | | | | | |
| CAL5 | - | - | 1/1 | 2236 | 200 HC | | | | | 2CAL PASSES |
| CAL4 | - | - | 1/1 | 2304 | 100 HC | | | | | |
| CAL3 | - | - | 1/1 | 2332 | 050 HC | | | | | |
| 9031922-BUL1 | - | - | 3/20/09 | 0000 | VBLKHC | | 5mL | | | |
| BS1 | - | - | 1/1 | 0037 | VHCLCS | | | | | |
| BSD1 | - | - | 1/1 | 0105 | VHCLCSD | | | | | |
| 0903052-16DS | 1 | B | 1/1 | 0134 | DLX-DL-4 | 0903052 | 1mL | 5 | | |
| 15DS | 1 | B | 1/1 | 0202 | DLX-DL-1 | | 70uL | 71.43 | | |
| 0903085-07 | 1 | | 1/1 | 0230 | TRIP BLANK | 0903085 | 5mL | - | | |
| O1R | 1 | | 1/1 | 0258 | S-1 | | | | | |
| O4R | 1 | | 1/1 | 0326 | S-4 | | | | | |
| O5R | 1 | | 1/1 | 0354 | S-5 | | | | | |
| O6R | 1 | | 1/1 | 0422 | S-6 | | | | | |
| 0903052-06R | 1 | | 1/1 | 0519 | VHBLKXR | | | | | |
| 18 | 1 | | 1/1 | | VARIORS | | | | | |
| 19 | 1 | | 1/1 | | | | | | | |
| 20 | 1 | | 1/1 | | | | | | | |
| 21 | 1 | | 1/1 | | | | | | | |
| 22 | 1 | | 1/1 | | | | | | | |
| 23 | 1 | | 1/1 | | | | | | | |
| 24 | 1 | | 1/1 | | | | | | | |

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

Tune (ID #7008) Lot No.: 66499 Calibration Group Code / Lot No.: TN 583

REVIEWED BY: [Signature] Date 3-20-09 IS # 66559
 12/01/08: btm 3777 JS/SMPR # 66557

b. Continuing Calibration Data (Form VII, VOA-1, VOA-2)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibration standards from the same instrument are used, they shall be in chronological order.

- (1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.
- (2) EICPs displaying each manual integration.

7A
VOLATILE CONTINUING CALIBRATION CHECK

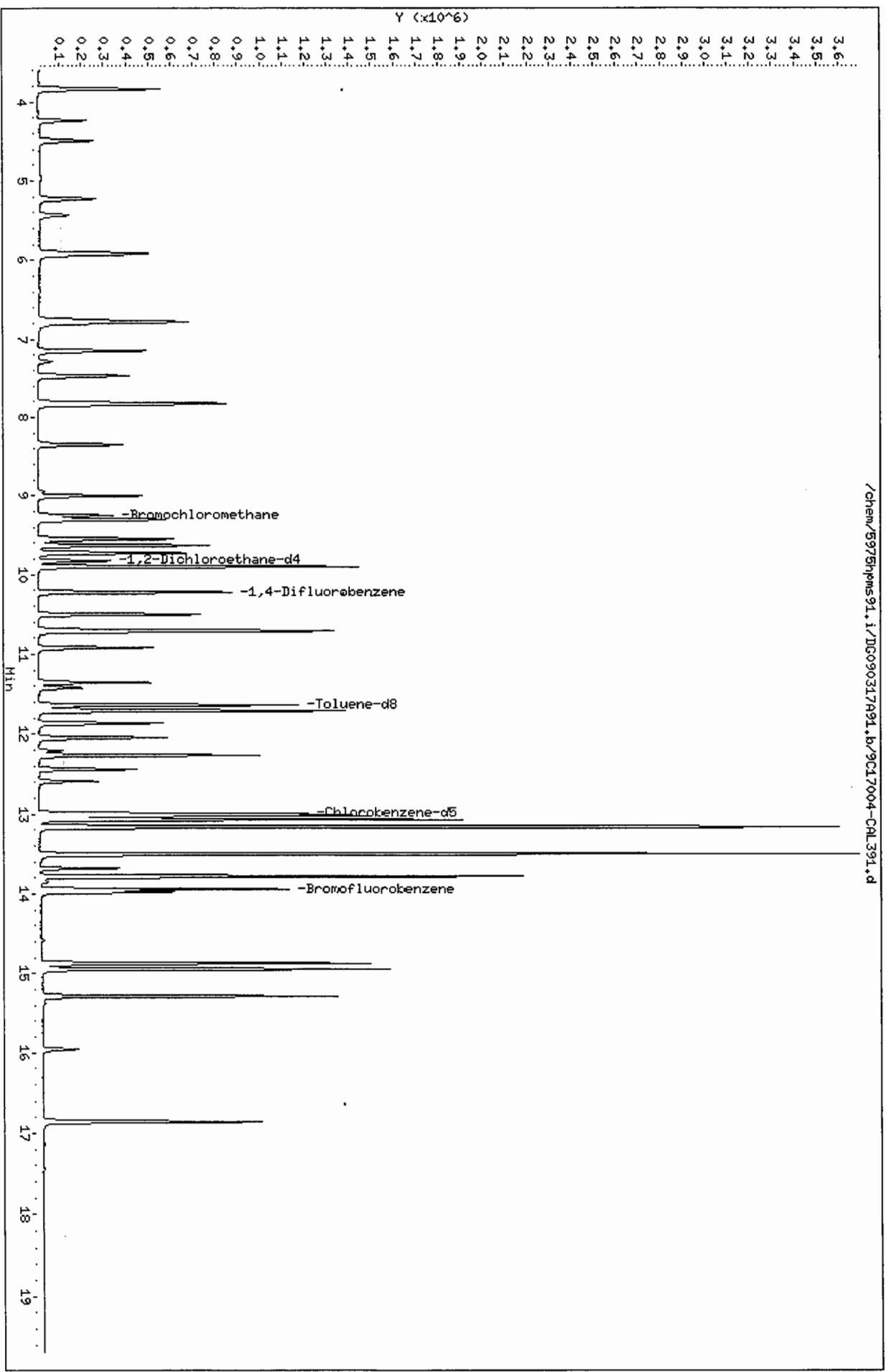
Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 Instrument ID: 5975HPMS91 Calibration Date: 03/17/09 Time: 1430
 Lab File ID: 9C17004-CAL391 Init. Calib. Date(s): 03/17/09 03/17/09
 EPA Sample No. (VSTD050##): VSTD050GW Init. Calib. Times: 1231 1430
 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID: 0.32 (mm)

| COMPOUND | RRF | RRF50 | MIN RRF | %D | MAX %D |
|--------------------------|-------|-------|---------|-------|--------|
| Dichlorodifluoromethane | 7.405 | 7.375 | | -0.4 | |
| Vinyl Chloride | 3.640 | 3.669 | 0.100 | 0.8 | 25.0 |
| Chloroethane | 1.798 | 1.785 | | -0.7 | |
| 1,1-Dichloroethene | 2.534 | 2.067 | 0.100 | -18.4 | 25.0 |
| Methylene Chloride | 2.758 | 2.486 | | -9.9 | |
| trans-1,2-Dichloroethene | 3.012 | 2.729 | | -9.4 | |
| 1,1-Dichloroethane | 4.820 | 4.252 | 0.200 | -11.8 | 25.0 |
| cis-1,2-Dichloroethene | 2.460 | 2.279 | | -7.4 | |
| 1,1,1-Trichloroethane | 0.908 | 0.764 | 0.100 | -15.9 | 25.0 |
| Benzene | 1.713 | 1.572 | 0.500 | -8.2 | 25.0 |
| 1,2-Dichloroethane | 4.202 | 3.866 | 0.100 | -8.0 | 25.0 |
| Trichloroethene | 0.440 | 0.373 | 0.300 | -15.2 | 25.0 |
| 1,2-Dichloropropane | 0.404 | 0.371 | | -8.2 | |
| Tetrachloroethene | 0.450 | 0.395 | 0.200 | -12.2 | 25.0 |
| Chlorobenzene | 1.413 | 1.284 | 0.500 | -9.1 | 25.0 |
| 1,4-Dichlorobenzene | 1.230 | 1.114 | 0.500 | -9.4 | 25.0 |
| Toluene-d8 | 1.515 | 1.360 | | -10.2 | |
| Bromofluorobenzene | 0.709 | 0.625 | 0.200 | -11.8 | 25.0 |
| 1,2-Dichloroethane-d4 | 3.173 | 2.712 | | -14.5 | |

All other compounds must meet a minimum RRF of 0.010.

Data File: /chem/5975hpms91.i/DIG090317A91.b/9C17004-CAL391.d
Date : 17-MAR-2009 14:30
Client ID: VSTID050GM
Sample Info: 9C17002-CAL3:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL391.d
 Lab Smp Id: 9C17002-CAL3 Client Smp ID: VSTD050GW
 Inj Date : 17-MAR-2009 14:30
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 9C17002-CAL3:JAO
 Misc Info : VSTD050GW
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:18 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
 Als bottle: 8 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-----------|------|--------|--------|---------|----------|---------------|--------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | 128 | 9.250 | 9.250 | (1.000) | 90803 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 114 | 10.226 | 10.226 | (1.000) | 583569 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 117 | 12.993 | 12.993 | (1.000) | 573027 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 65 | 9.823 | 9.823 | (1.062) | 246214 | 250.000 | 210 |
| \$ 5 Toluene-d8 | 98 | 98 | 11.634 | 11.634 | (0.895) | 779305 | 250.000 | 220 |
| \$ 6 Bromofluorobenzene | 95 | 95 | 13.945 | 13.945 | (1.073) | 358190 | 250.000 | 220(M) |
| 7 Dichlorodifluoromethane | 85 | 85 | 3.831 | 3.831 | (0.414) | 669714 | 250.000 | 250 |
| 8 Chloromethane | 50 | 50 | 4.233 | 4.233 | (0.458) | 264240 | 250.000 | 250 |
| 9 Vinyl Chloride | 62 | 62 | 4.489 | 4.489 | (0.485) | 333112 | 250.000 | 250 |
| 10 Bromomethane | 94 | 94 | 5.227 | 5.227 | (0.565) | 236135 | 250.000 | 260 |
| 11 Chloroethane | 64 | 64 | 5.428 | 5.428 | (0.587) | 162074 | 250.000 | 250 |
| 12 Trichlorofluoromethane | 101 | 101 | 5.916 | 5.916 | (0.639) | 651569 | 250.000 | 250 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | 101 | 6.769 | 6.769 | (0.732) | 229144 | 250.000 | 200 |
| 14 1,1-Dichloroethene | 96 | 96 | 6.787 | 6.787 | (0.734) | 187733 | 250.000 | 200 |
| 15 Acetone | 43 | 43 | 6.806 | 6.806 | (0.736) | 41277 | 250.000 | 200 |

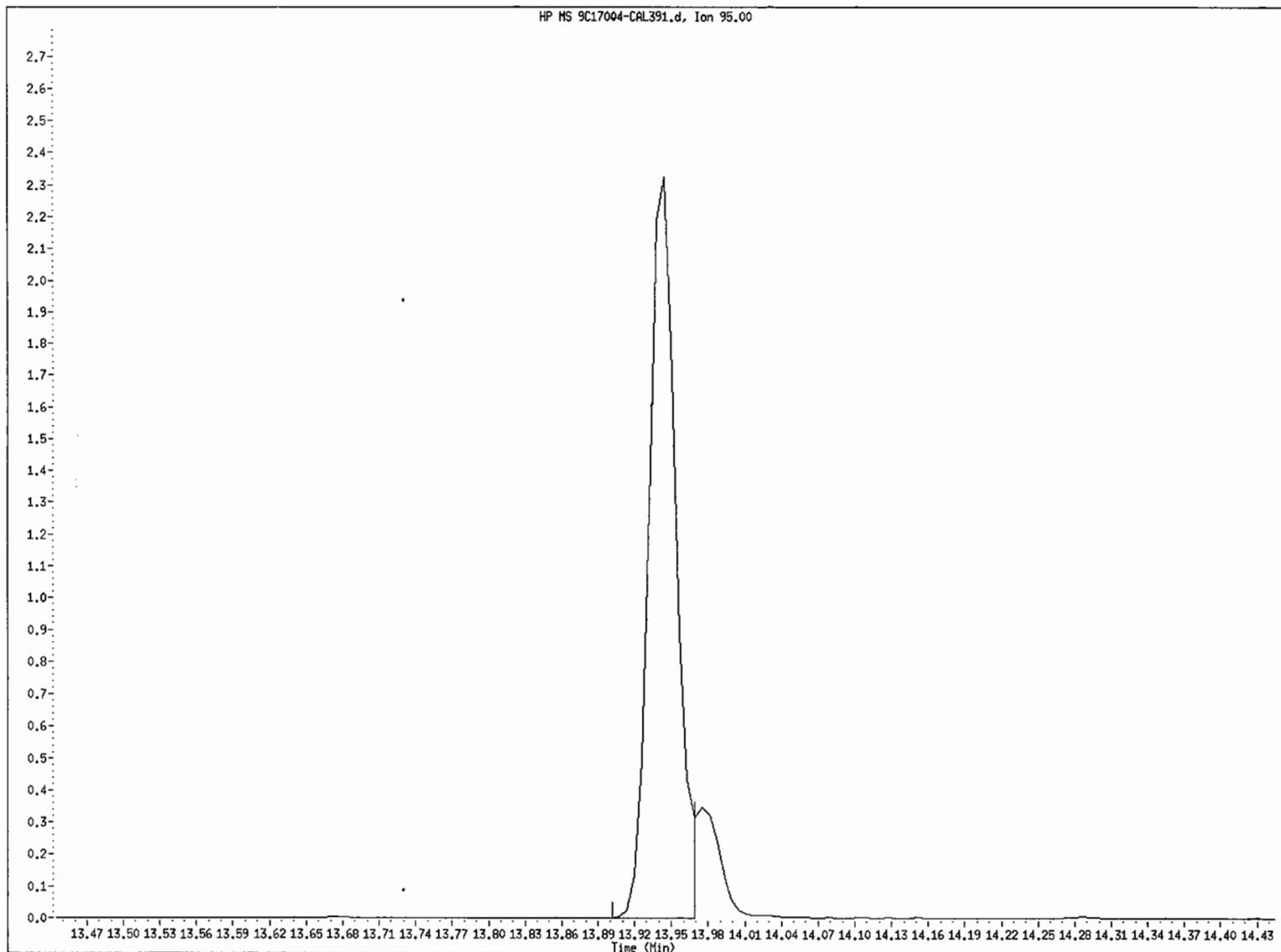
2d
3/18/09

| Compounds | QUANT SIG | | | | RESPONSE | AMOUNTS | |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | |
| 16 Carbon Disulfide | 76 | 7.147 | 7.147 | (0.773) | 809018 | 250.000 | 210 |
| 17 Methyl Acetate | 43 | 7.287 | 7.287 | (0.788) | 86629 | 250.000 | 220 |
| 18 Methylene Chloride | 84 | 7.470 | 7.470 | (0.808) | 225730 | 250.000 | 230 |
| 19 Methyl tert-Butyl Ether | 73 | 7.818 | 7.818 | (0.845) | 416417 | 250.000 | 230 |
| 20 trans-1,2-Dichloroethene | 96 | 7.830 | 7.830 | (0.846) | 247822 | 250.000 | 230 |
| 21 1,1-Dichloroethane | 63 | 8.342 | 8.342 | (0.902) | 386106 | 250.000 | 220 |
| 22 2-Butanone | 43 | 8.945 | 8.945 | (0.967) | 34161 | 250.000 | 200 |
| 23 cis-1,2-Dichloroethene | 96 | 9.000 | 9.000 | (0.973) | 206959 | 250.000 | 230 |
| 24 Chloroform | 83 | 9.299 | 9.299 | (1.005) | 472964 | 250.000 | 230 |
| 25 1,1,1-Trichloroethane | 97 | 9.549 | 9.549 | (0.934) | 445850 | 250.000 | 210 |
| 26 Cyclohexane | 56 | 9.628 | 9.628 | (0.942) | 311470 | 250.000 | 210 |
| 27 Carbon Tetrachloride | 117 | 9.726 | 9.726 | (0.951) | 452021 | 250.000 | 210 |
| 28 1,2-Dichloroethane | 62 | 9.897 | 9.897 | (1.070) | 351035 | 250.000 | 230 |
| 29 Benzene | 78 | 9.897 | 9.897 | (0.968) | 917198 | 250.000 | 230 |
| 30 Trichloroethene | 130 | 10.506 | 10.506 | (1.027) | 217702 | 250.000 | 210 |
| 31 1,2-Dichloropropane | 63 | 10.701 | 10.701 | (1.046) | 216345 | 250.000 | 230 |
| 32 Methylcyclohexane | 83 | 10.720 | 10.720 | (1.048) | 392805 | 250.000 | 210 |
| 33 Bromodichloromethane | 83 | 10.921 | 10.921 | (1.068) | 336055 | 250.000 | 220 |
| 34 cis-1,3-Dichloropropene | 75 | 11.354 | 11.354 | (1.110) | 288072 | 250.000 | 230 |
| 35 4-Methyl-2-Pentanone | 43 | 11.421 | 11.421 | (0.879) | 122058 | 250.000 | 240 |
| 36 Toluene | 91 | 11.707 | 11.707 | (0.901) | 1080453 | 250.000 | 230 |
| 37 trans-1,3-Dichloropropene | 75 | 11.866 | 11.866 | (1.160) | 320654 | 250.000 | 230 |
| 38 1,1,2-Trichloroethane | 97 | 12.049 | 12.049 | (1.178) | 181494 | 250.000 | 230 |
| 39 2-Hexanone | 43 | 12.207 | 12.207 | (0.939) | 65977 | 250.000 | 210 |
| 40 Tetrachloroethene | 164 | 12.268 | 12.268 | (0.944) | 226455 | 250.000 | 220 |
| 41 Dibromochloromethane | 129 | 12.445 | 12.445 | (1.217) | 239357 | 250.000 | 220 |
| 42 1,2-Dibromoethane | 107 | 12.591 | 12.591 | (0.969) | 165956 | 250.000 | 230 |
| 43 Chlorobenzene | 112 | 13.018 | 13.018 | (1.002) | 735787 | 250.000 | 230 |
| 44 Ethylbenzene | 106 | 13.067 | 13.067 | (1.006) | 401099 | 250.000 | 230 |
| 45 m,p-Xylene | 106 | 13.164 | 13.164 | (1.013) | 1035387 | 500.000 | 460 |
| 46 o-Xylene | 106 | 13.506 | 13.506 | (1.039) | 502736 | 250.000 | 240 |
| 47 Styrene | 104 | 13.506 | 13.506 | (1.039) | 792060 | 250.000 | 240 |
| 48 Bromoform | 173 | 13.682 | 13.682 | (1.338) | 156959 | 250.000 | 220 |
| 49 Isopropylbenzene | 105 | 13.786 | 13.786 | (1.061) | 1304839 | 250.000 | 220 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.981 | 13.981 | (1.076) | 277126 | 250.000 | 230 |
| 51 1,3-Dichlorobenzene | 146 | 14.871 | 14.871 | (1.145) | 602446 | 250.000 | 220 |
| 52 1,4-Dichlorobenzene | 146 | 14.944 | 14.944 | (1.150) | 638307 | 250.000 | 230 |
| 53 1,2-Dichlorobenzene | 146 | 15.286 | 15.286 | (1.176) | 554682 | 250.000 | 230 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.962 | 15.962 | (1.228) | 51868 | 250.000 | 210 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.852 | 16.852 | (1.297) | 357145 | 250.000 | 210 |
| M 56 Xylene (Total) | 106 | | | | 1538123 | 250.000 | 720 |

QC Flag Legend

M - Compound response manually integrated.

Bromofluorobenzene CAS Number 460-00-4 Area = 358190 Manually integrated



File name: /chem/5975hpms91.i/DG090317A91.b/9C17004-CAL391.d
Client ID: VSTD050GW
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2009 14:30
Retention Time: 13.94
Operator ID: JAO

7A
VOLATILE CONTINUING CALIBRATION CHECK

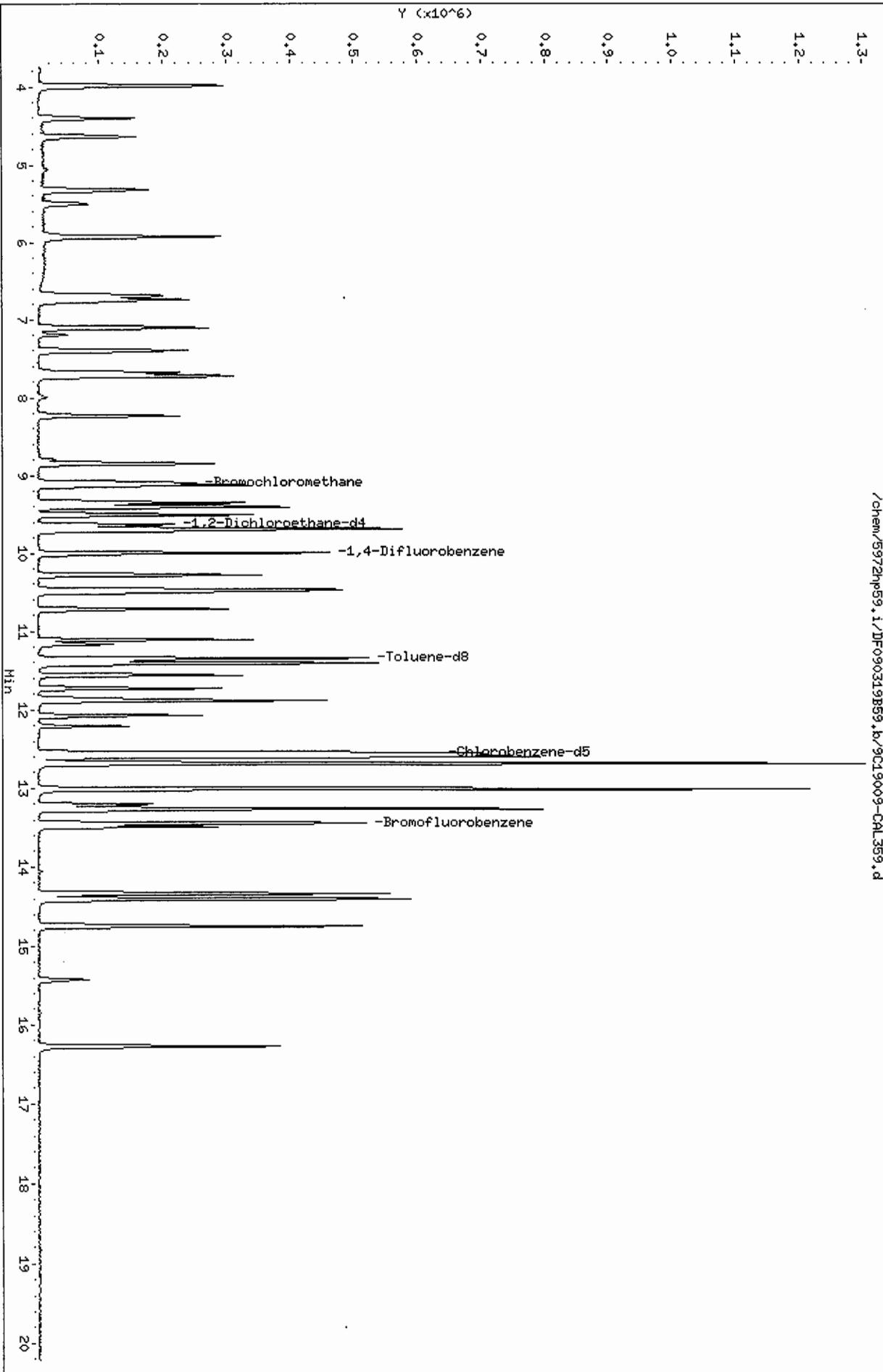
Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 Instrument ID: 5972HP59 Calibration Date: 03/19/09 Time: 2332
 Lab File ID: 9C19009-CAL359 Init. Calib. Date(s): 03/19/09 03/19/09
 EPA Sample No. (VSTD050##): VSTD050HC Init. Calib. Times: 2129 2332
 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID: 0.32 (mm)

| COMPOUND | RRF | RRF50 | MIN RRF | %D | MAX %D |
|--------------------------|-------|-------|---------|-------|--------|
| Dichlorodifluoromethane | 6.457 | 6.987 | | 8.2 | |
| Vinyl Chloride | 3.292 | 3.601 | 0.100 | 9.4 | 25.0 |
| Chloroethane | 1.466 | 1.478 | | 0.8 | |
| 1,1-Dichloroethene | 1.569 | 1.586 | 0.100 | 1.1 | 25.0 |
| Methylene Chloride | 2.111 | 2.159 | | 2.3 | |
| trans-1,2-Dichloroethene | 1.913 | 1.944 | | 1.6 | |
| 1,1-Dichloroethane | 4.193 | 4.209 | 0.200 | 0.4 | 25.0 |
| cis-1,2-Dichloroethene | 1.940 | 2.034 | | 4.8 | |
| 1,1,1-Trichloroethane | 0.708 | 0.661 | 0.100 | -6.6 | 25.0 |
| Benzene | 1.348 | 1.334 | 0.500 | -1.0 | 25.0 |
| 1,2-Dichloroethane | 3.289 | 3.267 | 0.100 | -0.7 | 25.0 |
| Trichloroethene | 0.336 | 0.311 | 0.300 | -7.4 | 25.0 |
| 1,2-Dichloropropane | 0.357 | 0.343 | | -3.9 | |
| Tetrachloroethene | 0.291 | 0.285 | 0.200 | -2.1 | 25.0 |
| Chlorobenzene | 0.889 | 0.892 | 0.500 | 0.3 | 25.0 |
| 1,4-Dichlorobenzene | 0.774 | 0.813 | 0.500 | 5.0 | 25.0 |
| Toluene-d8 | 1.357 | 1.225 | | -9.7 | |
| Bromofluorobenzene | 0.624 | 0.618 | 0.200 | -1.0 | 25.0 |
| 1,2-Dichloroethane-d4 | 3.214 | 2.892 | | -10.0 | |

All other compounds must meet a minimum RRF of 0.010.

Data File: /chem/5972hp59.i/DF090319B59.k/9C19009-CAL359.d
Date: 19-MAR-2009 23:32
Client ID: VSTD050HC
Sample Info: 9C19009-CAL3:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9C19009-CAL359.d
 Lab Smp Id: 9C19009-CAL3 Client Smp ID: VSTD050HC
 Inj Date : 19-MAR-2009 23:32
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9C19009-CAL3:TD
 Misc Info : VSTD050HC
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:40 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 5 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|------|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | | | 9.086 | 9.086 | (1.000) | 56700 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | | | 9.993 | 9.993 | (1.000) | 338210 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | | | 12.546 | 12.546 | (1.000) | 311749 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | | | 9.628 | 9.628 | (1.060) | 163974 | 250.000 | 220 |
| \$ 5 Toluene-d8 | 98 | | | 11.343 | 11.343 | (0.904) | 381737 | 250.000 | 230 |
| \$ 6 Bromofluorobenzene | 95 | | | 13.443 | 13.443 | (1.071) | 192545 | 250.000 | 250 |
| 7 Dichlorodifluoromethane | 85 | | | 3.989 | 3.989 | (0.439) | 396161 | 250.000 | 270 |
| 8 Chloromethane | 50 | | | 4.394 | 4.394 | (0.484) | 210591 | 250.000 | 280 |
| 9 Vinyl Chloride | 62 | | | 4.630 | 4.630 | (0.510) | 204165 | 250.000 | 270 |
| 10 Bromomethane | 94 | | | 5.320 | 5.320 | (0.586) | 151623 | 250.000 | 270 |
| 11 Chloroethane | 64 | | | 5.507 | 5.507 | (0.606) | 83784 | 250.000 | 250 |
| 12 Trichlorofluoromethane | 101 | | | 5.921 | 5.921 | (0.652) | 342565 | 250.000 | 260 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | | | 6.690 | 6.690 | (0.736) | 121427 | 250.000 | 250 |
| 14 1,1-Dichloroethene | 96 | | | 6.740 | 6.740 | (0.742) | 89951 | 250.000 | 250 |
| 15 Acetone | 43 | | | 6.769 | 6.769 | (0.745) | 38365 | 250.000 | 260 |
| 16 Carbon Disulfide | 76 | | | 7.104 | 7.104 | (0.782) | 456685 | 250.000 | 250 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 17 Methyl Acetate | 43 | 7.193 | 7.193 | (0.792) | 71168 | 250.000 | 250 |
| 18 Methylene Chloride | 84 | 7.400 | 7.400 | (0.814) | 122418 | 250.000 | 260 |
| 19 Methyl tert-Butyl Ether | 73 | 7.676 | 7.676 | (0.845) | 275003 | 250.000 | 240 |
| 20 trans-1,2-Dichloroethene | 96 | 7.725 | 7.725 | (0.850) | 110250 | 250.000 | 250 |
| 21 1,1-Dichloroethane | 63 | 8.228 | 8.228 | (0.906) | 238631 | 250.000 | 250 |
| 22 2-Butanone | 43 | 8.790 | 8.790 | (0.967) | 41841 | 250.000 | 250 |
| 23 cis-1,2-Dichloroethene | 96 | 8.839 | 8.839 | (0.973) | 115342 | 250.000 | 260 |
| 24 Chloroform | 83 | 9.125 | 9.125 | (1.004) | 269625 | 250.000 | 250 |
| 25 1,1,1-Trichloroethane | 97 | 9.342 | 9.342 | (0.935) | 223433 | 250.000 | 230 |
| 26 Cyclohexane | 56 | 9.401 | 9.401 | (0.941) | 180854 | 250.000 | 240 |
| 27 Carbon Tetrachloride | 117 | 9.500 | 9.500 | (0.951) | 202203 | 250.000 | 230 |
| 28 1,2-Dichloroethane | 62 | 9.707 | 9.707 | (1.068) | 185238 | 250.000 | 250 |
| 29 Benzene | 78 | 9.687 | 9.687 | (0.969) | 451282 | 250.000 | 250 |
| 30 Trichloroethene | 130 | 10.279 | 10.279 | (1.029) | 105227 | 250.000 | 230 |
| 31 1,2-Dichloropropane | 63 | 10.505 | 10.505 | (1.051) | 115937 | 250.000 | 240 |
| 32 Methylcyclohexane | 83 | 10.466 | 10.466 | (1.047) | 192096 | 250.000 | 250 |
| 33 Bromodichloromethane | 83 | 10.722 | 10.722 | (1.073) | 196621 | 250.000 | 240 |
| 34 cis-1,3-Dichloropropene | 75 | 11.107 | 11.107 | (1.111) | 189821 | 250.000 | 240 |
| 35 4-Methyl-2-Pentanone | 43 | 11.166 | 11.166 | (0.890) | 97718 | 250.000 | 260 |
| 36 Toluene | 91 | 11.402 | 11.402 | (0.909) | 462338 | 250.000 | 260 |
| 37 trans-1,3-Dichloropropene | 75 | 11.560 | 11.560 | (1.157) | 179178 | 250.000 | 230 |
| 38 1,1,2-Trichloroethane | 97 | 11.728 | 11.728 | (1.174) | 79244 | 250.000 | 230 |
| 39 2-Hexanone | 43 | 11.846 | 11.846 | (0.944) | 67668 | 250.000 | 260 |
| 40 Tetrachloroethene | 164 | 11.885 | 11.885 | (0.947) | 80862 | 250.000 | 240 |
| 41 Dibromochloromethane | 129 | 12.073 | 12.073 | (1.208) | 124833 | 250.000 | 240 |
| 42 1,2-Dibromoethane | 107 | 12.211 | 12.211 | (0.973) | 91909 | 250.000 | 250 |
| 43 Chlorobenzene | 112 | 12.575 | 12.575 | (1.002) | 278098 | 250.000 | 250 |
| 44 Ethylbenzene | 106 | 12.605 | 12.605 | (1.005) | 144534 | 250.000 | 250 |
| 45 m,p-Xylene | 106 | 12.684 | 12.684 | (1.011) | 383536 | 500.000 | 520 |
| 46 o-Xylene | 106 | 13.009 | 13.009 | (1.037) | 177949 | 250.000 | 250 |
| 47 Styrene | 104 | 13.009 | 13.009 | (1.037) | 300334 | 250.000 | 260 |
| 48 Bromoform | 173 | 13.216 | 13.216 | (1.323) | 76585 | 250.000 | 240 |
| 49 Isopropylbenzene | 105 | 13.265 | 13.265 | (1.057) | 548254 | 250.000 | 270 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.492 | 13.492 | (1.075) | 153719 | 250.000 | 260 |
| 51 1,3-Dichlorobenzene | 146 | 14.340 | 14.340 | (1.143) | 239565 | 250.000 | 260 |
| 52 1,4-Dichlorobenzene | 146 | 14.409 | 14.409 | (1.149) | 253313 | 250.000 | 260 |
| 53 1,2-Dichlorobenzene | 146 | 14.744 | 14.744 | (1.175) | 222862 | 250.000 | 260 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.424 | 15.424 | (1.229) | 31082 | 250.000 | 270 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.272 | 16.272 | (1.297) | 141401 | 250.000 | 260 |
| M 56 Xylene (Total) | 106 | | | | 561485 | 250.000 | 790 |

7A
VOLATILE CONTINUING CALIBRATION CHECK

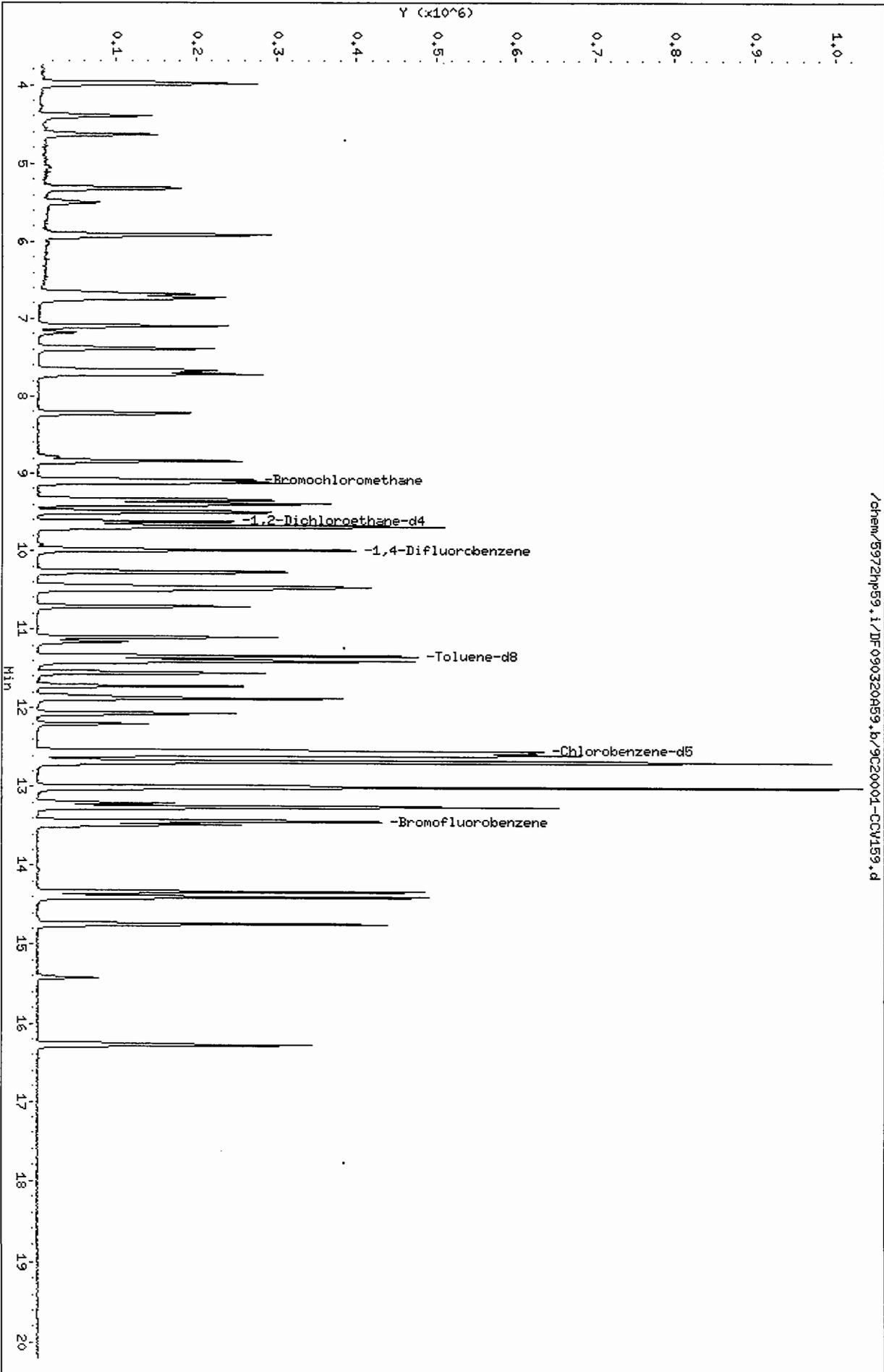
Lab Name: COMPUCHEM Contract: OLM04.3
 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903085
 Instrument ID: 5972HP59 Calibration Date: 03/20/09 Time: 0956
 Lab File ID: 9C20001-CCV159 Init. Calib. Date(s): 03/19/09 03/19/09
 EPA Sample No. (VSTD050##): VSTD050HD Init. Calib. Times: 2129 2332
 Heated Purge: (Y/N) N
 GC Column: SPB-624 ID: 0.32 (mm)

| COMPOUND | RRF | RRF50 | MIN RRF | %D | MAX %D |
|--------------------------|-------|-------|---------|-------|--------|
| Dichlorodifluoromethane | 6.457 | 5.659 | | -12.4 | |
| Vinyl Chloride | 3.292 | 2.997 | 0.100 | -9.0 | 25.0 |
| Chloroethane | 1.466 | 1.310 | | -10.6 | |
| 1,1-Dichloroethene | 1.569 | 1.371 | 0.100 | -12.6 | 25.0 |
| Methylene Chloride | 2.111 | 1.775 | | -15.9 | |
| trans-1,2-Dichloroethene | 1.913 | 1.561 | | -18.4 | |
| 1,1-Dichloroethane | 4.193 | 3.298 | 0.200 | -21.3 | 25.0 |
| cis-1,2-Dichloroethene | 1.940 | 1.583 | | -18.4 | |
| 1,1,1-Trichloroethane | 0.708 | 0.678 | 0.100 | -4.2 | 25.0 |
| Benzene | 1.348 | 1.224 | 0.500 | -9.2 | 25.0 |
| 1,2-Dichloroethane | 3.289 | 2.752 | 0.100 | -16.3 | 25.0 |
| Trichloroethene | 0.336 | 0.317 | 0.300 | -5.7 | 25.0 |
| 1,2-Dichloropropane | 0.357 | 0.329 | | -7.8 | |
| Tetrachloroethene | 0.291 | 0.264 | 0.200 | -9.3 | 25.0 |
| Chlorobenzene | 0.889 | 0.820 | 0.500 | -7.8 | 25.0 |
| 1,4-Dichlorobenzene | 0.774 | 0.721 | 0.500 | -6.8 | 25.0 |
| Toluene-d8 | 1.357 | 1.189 | | -12.4 | |
| Bromofluorobenzene | 0.624 | 0.592 | 0.200 | -5.1 | 25.0 |
| 1,2-Dichloroethane-d4 | 3.214 | 3.193 | | -0.7 | |

All other compounds must meet a minimum RRF of 0.010.

Data File: /chem/5972hp59.i/DF090320A59.b/9C20001-CCV159.d
Date: 20-MAR-2009 09:56
Client ID: WSTD050HD
Sample Info: 9C20001-CCV1:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/9C20001-CCV159.d
 Lab Smp Id: 9C20001-CCV1 Client Smp ID: VSTD050HD
 Inj Date : 20-MAR-2009 09:56
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 9C20001-CCV1:JAO
 Misc Info : VSTD050HD
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: DC.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|----------------------------------|-------|-----|--------|--------|---------|----------|------------------|-----------------|
| | | | | | | | CAL-AMT (ng) | ON-COL (ng) |
| * 1 Bromochloromethane | 128 | | 9.086 | 9.086 | (1.000) | 64513 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | | 9.993 | 9.993 | (1.000) | 317104 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | | 12.546 | 12.546 | (1.000) | 300936 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | | 9.618 | 9.618 | (1.059) | 205998 | 250.000 | 250 |
| \$ 5 Toluene-d8 | 98 | | 11.343 | 11.343 | (0.904) | 357886 | 250.000 | 220 |
| \$ 6 Bromofluorobenzene | 95 | | 13.443 | 13.443 | (1.071) | 178029 | 250.000 | 240 |
| 7 Dichlorodifluoromethane | 85 | | 3.980 | 3.980 | (0.438) | 365051 | 250.000 | 220 |
| 8 Chloromethane | 50 | | 4.394 | 4.394 | (0.484) | 187875 | 250.000 | 220 |
| 9 Vinyl Chloride | 62 | | 4.630 | 4.630 | (0.510) | 193345 | 250.000 | 230 |
| 10 Bromomethane | 94 | | 5.320 | 5.320 | (0.586) | 146493 | 250.000 | 230 |
| 11 Chloroethane | 64 | | 5.498 | 5.498 | (0.605) | 84522 | 250.000 | 220 |
| 12 Trichlorofluoromethane | 101 | | 5.922 | 5.922 | (0.652) | 348181 | 250.000 | 230 |
| 13 1,1,2-trichloro-1,2,2-trifluo | 101 | | 6.681 | 6.681 | (0.735) | 121349 | 250.000 | 220 |
| 14 1,1-Dichloroethane | 96 | | 6.740 | 6.740 | (0.742) | 88429 | 250.000 | 220 |
| 15 Acetone | *43 | | 6.769 | 6.769 | (0.745) | 40286 | 250.000 | 240 |

[Handwritten signature]
3/23/09

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ng) | ON-COL (ng) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 16 Carbon Disulfide | 76 | 7.095 | 7.095 | (0.781) | 405609 | 250.000 | 200 |
| 17 Methyl Acetate | 43 | 7.183 | 7.183 | (0.791) | 69684 | 250.000 | 220 |
| 18 Methylene Chloride | 84 | 7.390 | 7.390 | (0.813) | 114519 | 250.000 | 210 |
| 19 Methyl tert-Butyl Ether | 73 | 7.676 | 7.676 | (0.845) | 279686 | 250.000 | 220 |
| 20 trans-1,2-Dichloroethene | 96 | 7.716 | 7.716 | (0.849) | 100673 | 250.000 | 200 |
| 21 1,1-Dichloroethane | 63 | 8.218 | 8.218 | (0.905) | 212763 | 250.000 | 200 |
| 22 2-Butanone | 43 | 8.790 | 8.790 | (0.967) | 39717 | 250.000 | 210 |
| 23 cis-1,2-Dichloroethene | 96 | 8.839 | 8.839 | (0.973) | 102116 | 250.000 | 200 |
| 24 Chloroform | 83 | 9.115 | 9.115 | (1.003) | 248321 | 250.000 | 200 |
| 25 1,1,1-Trichloroethane | 97 | 9.332 | 9.332 | (0.934) | 215049 | 250.000 | 240 |
| 26 Cyclohexane | 56 | 9.391 | 9.391 | (0.940) | 166603 | 250.000 | 230 |
| 27 Carbon Tetrachloride | 117 | 9.490 | 9.490 | (0.950) | 190508 | 250.000 | 240 |
| 28 1,2-Dichloroethane | 62 | 9.697 | 9.697 | (1.067) | 177526 | 250.000 | 210 |
| 29 Benzene | 78 | 9.677 | 9.677 | (0.968) | 388181 | 250.000 | 230 |
| 30 Trichloroethene | 130 | 10.279 | 10.279 | (1.029) | 100642 | 250.000 | 240 |
| 31 1,2-Dichloropropane | 63 | 10.495 | 10.495 | (1.050) | 104356 | 250.000 | 230 |
| 32 Methylcyclohexane | 83 | 10.466 | 10.466 | (1.047) | 163701 | 250.000 | 230 |
| 33 Bromodichloromethane | 83 | 10.712 | 10.712 | (1.072) | 183706 | 250.000 | 230 |
| 34 cis-1,3-Dichloropropene | 75 | 11.097 | 11.097 | (1.110) | 182197 | 250.000 | 250 |
| 35 4-Methyl-2-Pentanone | 43 | 11.156 | 11.156 | (0.889) | 91400 | 250.000 | 250 |
| 36 Toluene | 91 | 11.402 | 11.402 | (0.909) | 388050 | 250.000 | 230 |
| 37 trans-1,3-Dichloropropene | 75 | 11.560 | 11.560 | (1.157) | 176424 | 250.000 | 240 |
| 38 1,1,2-Trichloroethane | 97 | 11.728 | 11.728 | (1.174) | 75060 | 250.000 | 230 |
| 39 2-Hexanone | 43 | 11.846 | 11.846 | (0.944) | 56930 | 250.000 | 230 |
| 40 Tetrachloroethene | 164 | 11.876 | 11.876 | (0.947) | 79429 | 250.000 | 230 |
| 41 Dibromochloromethane | 129 | 12.073 | 12.073 | (1.208) | 120714 | 250.000 | 240 |
| 42 1,2-Dibromoethane | 107 | 12.201 | 12.201 | (0.972) | 87241 | 250.000 | 250 |
| 43 Chlorobenzene | 112 | 12.566 | 12.566 | (1.002) | 246838 | 250.000 | 230 |
| 44 Ethylbenzene | 106 | 12.595 | 12.595 | (1.004) | 126825 | 250.000 | 230 |
| 45 m,p-Xylene | 106 | 12.684 | 12.684 | (1.011) | 319506 | 500.000 | 450 |
| 46 o-Xylene | 106 | 12.999 | 12.999 | (1.036) | 160145 | 250.000 | 230 |
| 47 Styrene | 104 | 13.009 | 13.009 | (1.037) | 270026 | 250.000 | 240 |
| 48 Bromoform | 173 | 13.206 | 13.206 | (1.322) | 68755 | 250.000 | 230 |
| 49 Isopropylbenzene | 105 | 13.256 | 13.256 | (1.057) | 449600 | 250.000 | 230 |
| 50 1,1,2,2-Tetrachloroethane | 83 | 13.482 | 13.482 | (1.075) | 136154 | 250.000 | 240 |
| 51 1,3-Dichlorobenzene | 146 | 14.340 | 14.340 | (1.143) | 211465 | 250.000 | 240 |
| 52 1,4-Dichlorobenzene | 146 | 14.409 | 14.409 | (1.149) | 216919 | 250.000 | 230 |
| 53 1,2-Dichlorobenzene | 146 | 14.744 | 14.744 | (1.175) | 189828 | 250.000 | 230 |
| 54 1,2-Dibromo-3-Chloropropane | 75 | 15.424 | 15.424 | (1.229) | 27689 | 250.000 | 250 |
| 55 1,2,4-Trichlorobenzene | 180 | 16.272 | 16.272 | (1.297) | 126634 | 250.000 | 240 |
| M 56 Xylene (Total) | 106 | | | | 479651 | 250.000 | 700 |

4. Raw QC Data

a. BFB Data

b. Blank Data

c. Matrix Spike Data

d. Matrix Spike Duplicate Data

a. **BFB Data**

BFB shall be arranged in chronological order, by instrument. For each 12 hour period, include:

- Bar Graph spectrum and Tabulated Relative Abundances
- Mass listing
- Reconstructed total ion chromatogram

Data File: /chem/5975hpms91.i/DG090317A91.b/9C17004-TUN191.d

Date : 17-MAR-2009 11:51

Client ID: BFB

Instrument: 5975hpms91.i

Sample Info: 9C17004-TUN1:JAO

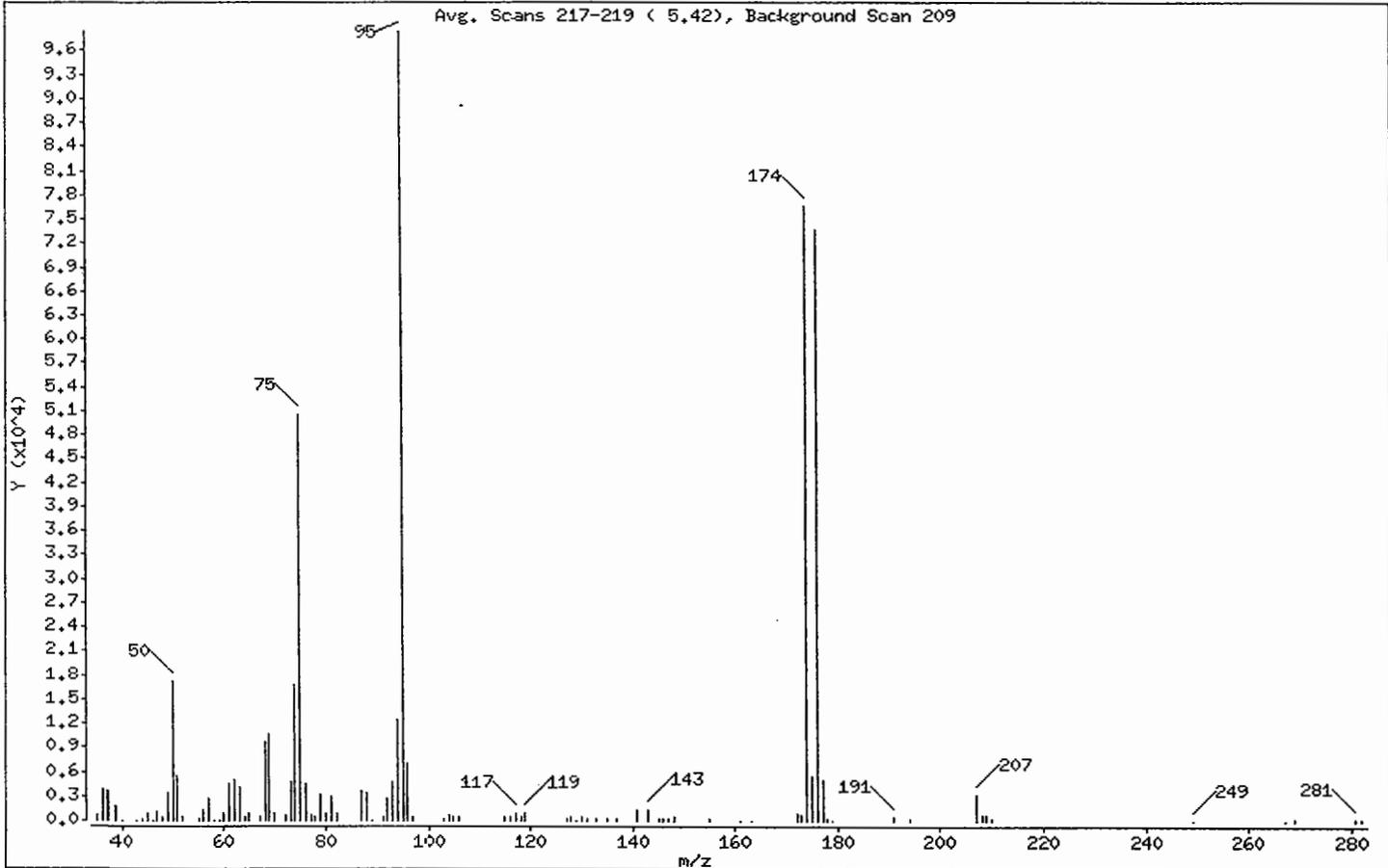
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bfb



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 17.55 |
| 75 | 30.00 - 66.00% of mass 95 | 51.49 |
| 96 | 5.00 - 9.00% of mass 95 | 7.03 |
| 173 | Less than 2.00% of mass 174 | 0.76 (0.97) |
| 174 | 50.00 - 120.00% of mass 95 | 77.77 |
| 175 | 4.00 - 9.00% of mass 174 | 5.55 (7.14) |
| 176 | 93.00 - 101.00% of mass 174 | 74.81 (96.19) |
| 177 | 5.00 - 9.00% of mass 176 | 5.06 (6.76) |

Data File: /chem/5975hpms91.i/DG090317A91.b/9C17004-TUN191.d

Date : 17-MAR-2009 11:51

Client ID: BFB

Instrument: 5975hpms91.i

Sample Info: 9C17004-TUN1:JAO

Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C17004-TUN191.d

Spectrum: Avg. Scans 217-219 (5.42), Background Scan 209

Location of Maximum: 95.00

Number of points: 96

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|--------|------|--------|-------|
| 36.00 | 706 | 65.00 | 939 | 97.00 | 483 | 161.00 | 47 |
| 37.00 | 3845 | 67.00 | 357 | 103.00 | 317 | 163.00 | 57 |
| 38.00 | 3542 | 68.00 | 9701 | 104.00 | 588 | 172.00 | 896 |
| 39.00 | 1785 | 69.00 | 10663 | 105.00 | 369 | 173.00 | 744 |
| 40.00 | 90 | 70.00 | 973 | 106.00 | 481 | 174.00 | 76488 |
| 43.00 | 99 | 72.00 | 689 | 115.00 | 451 | 175.00 | 5462 |
| 44.00 | 321 | 73.00 | 4674 | 116.00 | 462 | 176.00 | 73568 |
| 45.00 | 897 | 74.00 | 16784 | 117.00 | 948 | 177.00 | 4974 |
| 46.00 | 92 | 75.00 | 50632 | 118.00 | 373 | 178.00 | 237 |
| 47.00 | 1186 | 76.00 | 4465 | 119.00 | 861 | 179.00 | 91 |
| 48.00 | 530 | 77.00 | 664 | 127.00 | 182 | 191.00 | 364 |
| 49.00 | 3400 | 78.00 | 459 | 128.00 | 443 | 194.00 | 180 |
| 50.00 | 17256 | 79.00 | 3143 | 129.00 | 86 | 207.00 | 3162 |
| 51.00 | 5389 | 80.00 | 892 | 130.00 | 423 | 208.00 | 582 |
| 52.00 | 422 | 81.00 | 2995 | 131.00 | 237 | 209.00 | 666 |
| 55.00 | 258 | 82.00 | 911 | 133.00 | 241 | 210.00 | 234 |
| 56.00 | 1452 | 87.00 | 3632 | 135.00 | 323 | 249.00 | 103 |
| 57.00 | 2756 | 88.00 | 3435 | 137.00 | 143 | 267.00 | 28 |
| 58.00 | 87 | 89.00 | 82 | 141.00 | 1297 | 269.00 | 126 |
| 59.00 | 88 | 91.00 | 401 | 143.00 | 1348 | 281.00 | 253 |
| 60.00 | 842 | 92.00 | 2787 | 145.00 | 201 | 282.00 | 125 |
| 61.00 | 4555 | 93.00 | 4662 | 146.00 | 262 | | |
| 62.00 | 4953 | 94.00 | 12540 | 147.00 | 156 | | |
| 63.00 | 3997 | 95.00 | 98352 | 148.00 | 394 | | |
| 64.00 | 551 | 96.00 | 6913 | 155.00 | 238 | | |

Data File: /chem/5975hpm591.i/DG090317A91.b/9C17004-TUN191.d

Date: 17-MAR-2009 11:51

Client ID: BFB

Sample Info: 9C17004-TUN1:JAO

Volume Injected (uL): 2.0

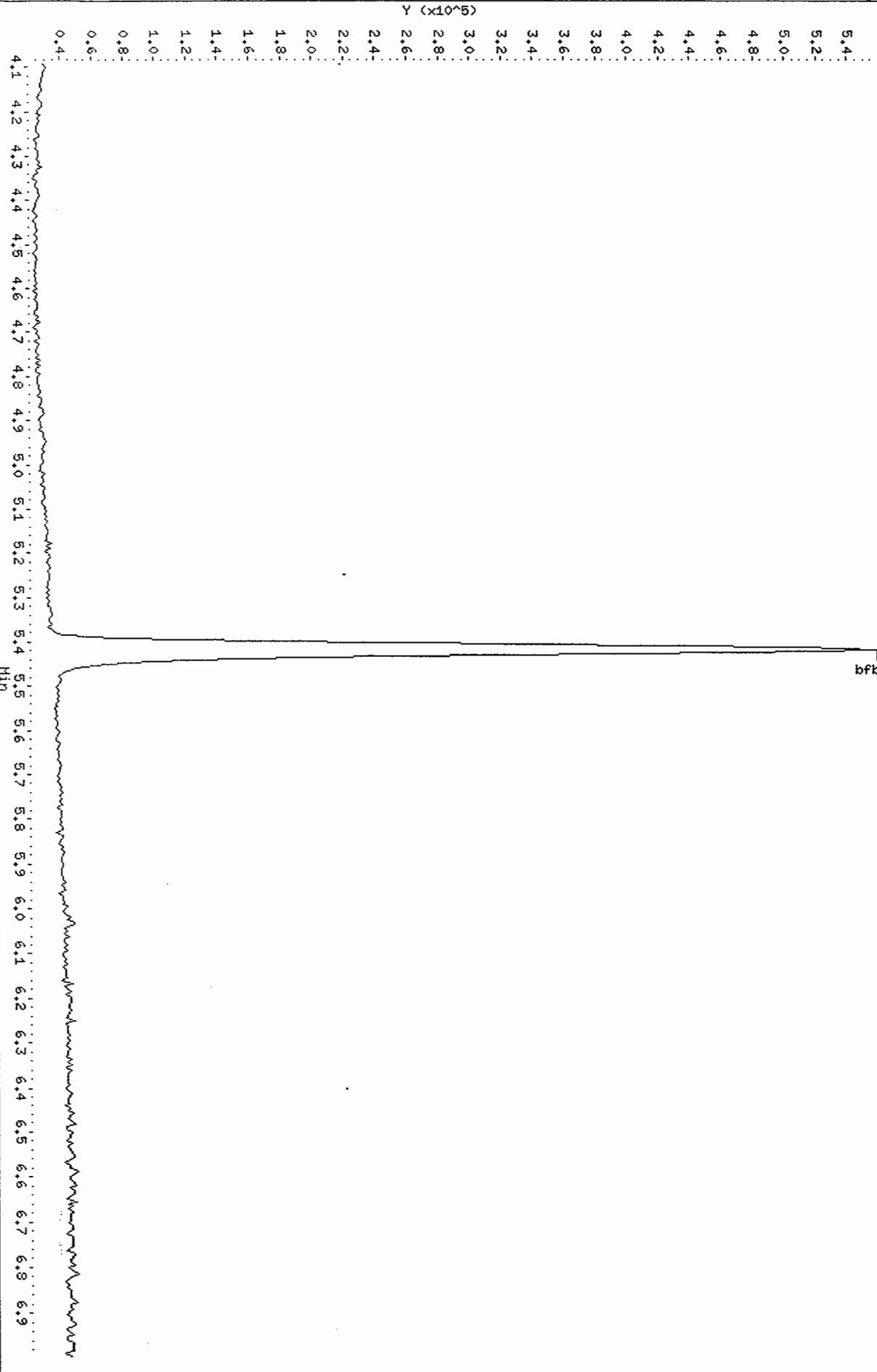
Column phase: SPB-624

Instrument: 5975hpm591.i

Operator: JAO

Column diameter: 0.32

/chem/5975hpm591.i/DG090317A91.b/9C17004-TUN191.d



Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-TUN159.d

Date: 19-MAR-2009 21:10

Client ID: BFB

Instrument: 5972hp59.i

Sample Info: 9C19009-TUN1:TD

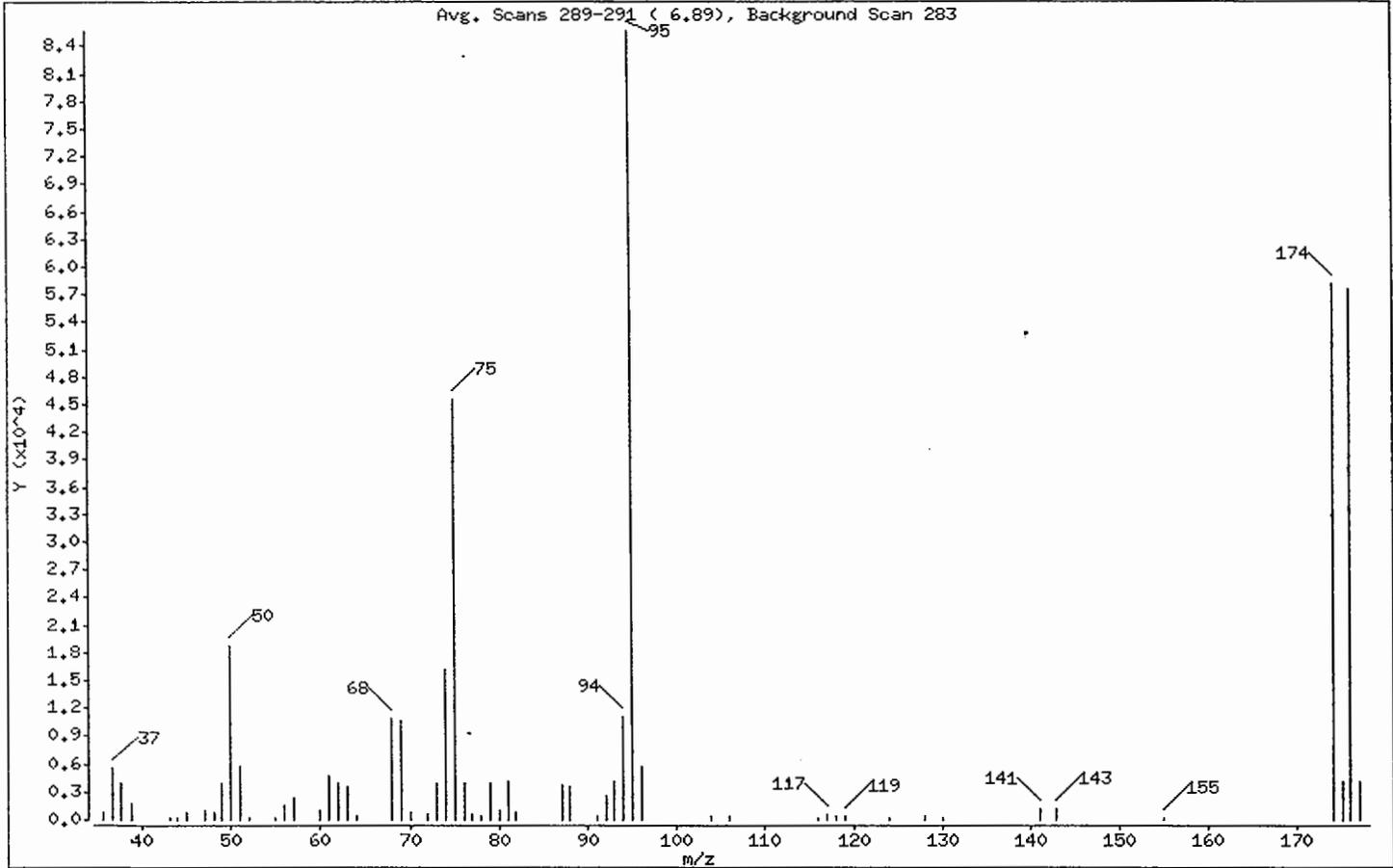
Volume Injected (uL): 2.0

Operator: TD

Column phase: SPB-624

Column diameter: 0.32

1 bfb



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 21.90 |
| 75 | 30.00 - 66.00% of mass 95 | 53.13 |
| 96 | 5.00 - 9.00% of mass 95 | 6.58 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | 50.00 - 120.00% of mass 95 | 68.01 |
| 175 | 4.00 - 9.00% of mass 174 | 4.94 (7.26) |
| 176 | 93.00 - 101.00% of mass 174 | 67.32 (99.00) |
| 177 | 5.00 - 9.00% of mass 176 | 4.74 (7.05) |

Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-TUN159.d

Date : 19-MAR-2009 21:10

Client ID: BFB

Instrument: 5972hp59.i

Sample Info: 9C19009-TUN1:TD

Volume Injected (uL): 2.0

Operator: TD

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C19009-TUN159.d

Spectrum: Avg. Scans 289-291 (6.89), Background Scan 283

Location of Maximum: 95.00

Number of points: 59

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|--------|-------|--------|-------|
| 36.00 | 755 | 57.00 | 2463 | 78.00 | 376 | 116.00 | 107 |
| 37.00 | 5519 | 60.00 | 990 | 79.00 | 4025 | 117.00 | 651 |
| 38.00 | 4002 | 61.00 | 4770 | 80.00 | 1018 | 118.00 | 472 |
| 39.00 | 1761 | 62.00 | 3918 | 81.00 | 4183 | 119.00 | 433 |
| 43.00 | 105 | 63.00 | 3481 | 82.00 | 819 | 124.00 | 107 |
| 44.00 | 292 | 64.00 | 423 | 87.00 | 3812 | 128.00 | 306 |
| 45.00 | 882 | 68.00 | 10804 | 88.00 | 3564 | 130.00 | 125 |
| 47.00 | 1014 | 69.00 | 10625 | 91.00 | 444 | 141.00 | 1221 |
| 48.00 | 829 | 70.00 | 714 | 92.00 | 2629 | 143.00 | 1189 |
| 49.00 | 3995 | 72.00 | 559 | 93.00 | 4174 | 155.00 | 100 |
| 50.00 | 18752 | 73.00 | 3932 | 94.00 | 10957 | 174.00 | 58240 |
| 51.00 | 5667 | 74.00 | 16091 | 95.00 | 85640 | 175.00 | 4229 |
| 52.00 | 108 | 75.00 | 45496 | 96.00 | 5634 | 176.00 | 57656 |
| 55.00 | 217 | 76.00 | 3862 | 104.00 | 297 | 177.00 | 4063 |
| 56.00 | 1649 | 77.00 | 675 | 106.00 | 450 | | |

Data File: /chem/5972hp59.i/DF090319B59.b/9C19009-TUN159.d

Date : 19-MAR-2009 21:10

Client ID: BFB

Sample Info: 9C19009-TUN1:TD

Volume Injected (uL): 2.0

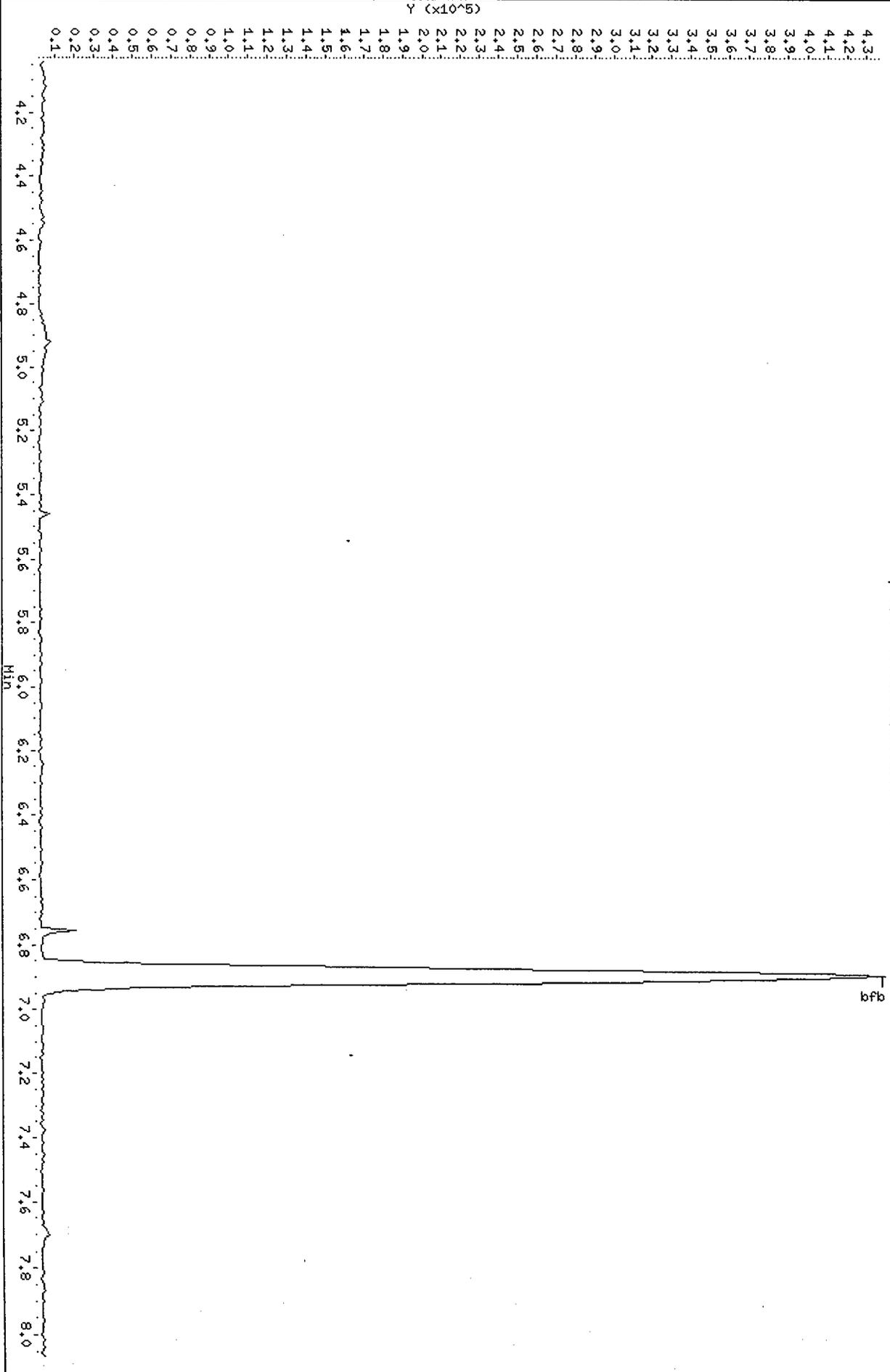
Column phase: SPB-624

Instrument: 5972hp59.i

Operator: TD

Column diameter: 0.32

/chem/5972hp59.i/DF090319B59.b/9C19009-TUN159.d



Data File: /chem/5972hp59.i/DF090320A59.b/9C20001-TUN159.d

Date : 20-MAR-2009 09:23

Client ID: BFB

Instrument: 5972hp59.i

Sample Info: 9C20001-TUN1:JAO

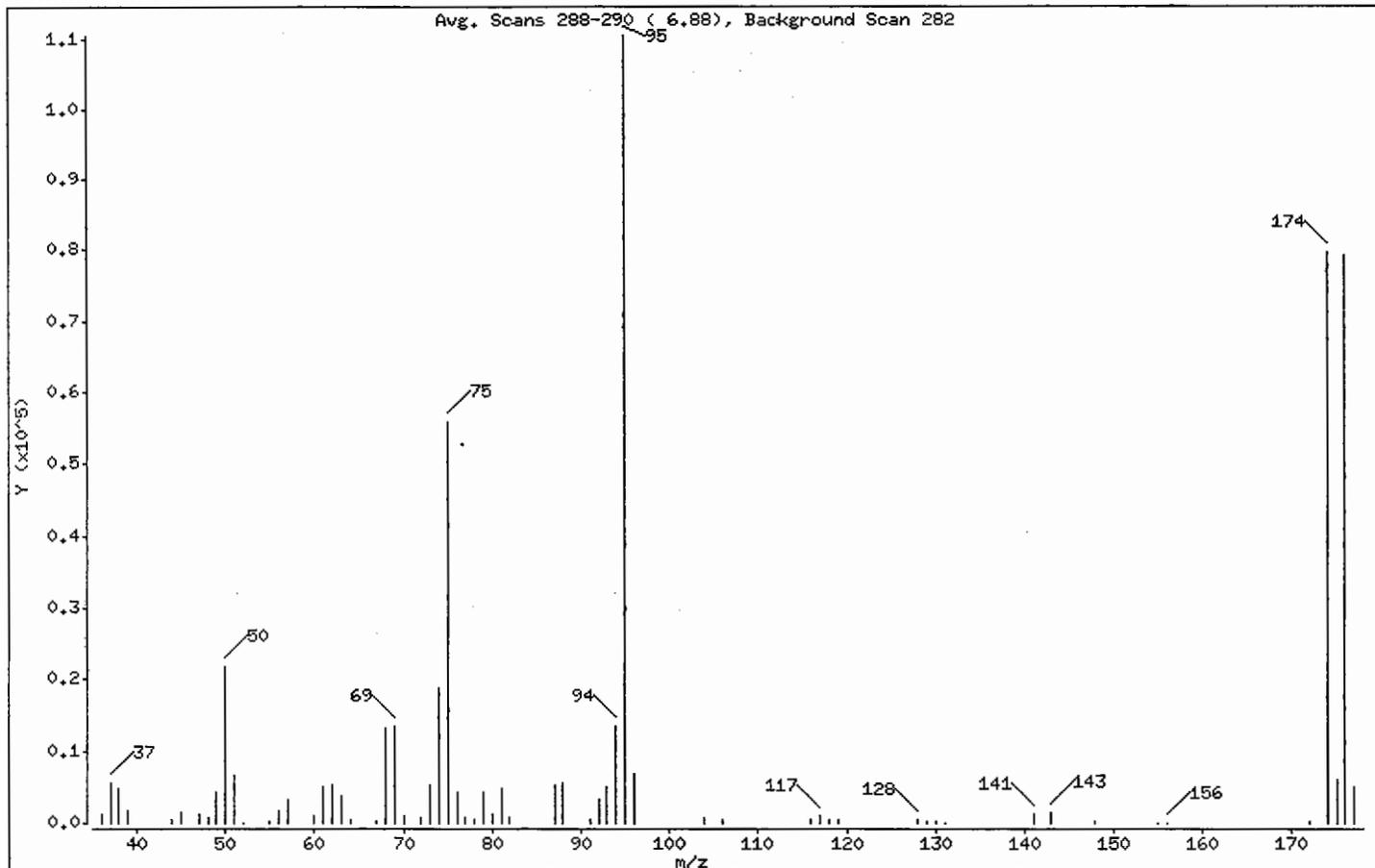
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bfb



| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 19.89 |
| 75 | 30.00 - 66.00% of mass 95 | 50.75 |
| 96 | 5.00 - 9.00% of mass 95 | 6.18 |
| 173 | Less than 2.00% of mass 174 | 0.00 (0.00) |
| 174 | 50.00 - 120.00% of mass 95 | 72.39 |
| 175 | 4.00 - 9.00% of mass 174 | 5.58 (7.71) |
| 176 | 93.00 - 101.00% of mass 174 | 71.80 (99.18) |
| 177 | 5.00 - 9.00% of mass 176 | 4.62 (6.43) |

Data File: /chem/5972hp59.i/DF090320A59.b/9C20001-TUN159.d

Date : 20-MAR-2009 09:23

Client ID: BFB

Instrument: 5972hp59.i

Sample Info: 9C20001-TUN1;JAO

Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Data File: 9C20001-TUN159.d

Spectrum: Avg. Scans 288-290 (6.88), Background Scan 282

Location of Maximum: 95.00

Number of points: 63

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|--------|--------|--------|-------|
| 36.00 | 1226 | 61.00 | 5143 | 80.00 | 1214 | 119.00 | 482 |
| 37.00 | 5590 | 62.00 | 5296 | 81.00 | 4825 | 128.00 | 547 |
| 38.00 | 4719 | 63.00 | 3788 | 82.00 | 734 | 129.00 | 195 |
| 39.00 | 1824 | 64.00 | 393 | 87.00 | 5332 | 130.00 | 158 |
| 44.00 | 406 | 67.00 | 368 | 88.00 | 5675 | 131.00 | 103 |
| 45.00 | 1436 | 68.00 | 13221 | 91.00 | 513 | 141.00 | 1320 |
| 47.00 | 1290 | 69.00 | 13562 | 92.00 | 3353 | 143.00 | 1481 |
| 48.00 | 874 | 70.00 | 1000 | 93.00 | 4997 | 148.00 | 265 |
| 49.00 | 4229 | 72.00 | 675 | 94.00 | 13581 | 155.00 | 103 |
| 50.00 | 21952 | 73.00 | 5404 | 95.00 | 110384 | 156.00 | 122 |
| 51.00 | 6512 | 74.00 | 18760 | 96.00 | 6819 | 172.00 | 288 |
| 52.00 | 127 | 75.00 | 56016 | 104.00 | 655 | 174.00 | 79912 |
| 55.00 | 333 | 76.00 | 4420 | 106.00 | 522 | 175.00 | 6165 |
| 56.00 | 1687 | 77.00 | 876 | 116.00 | 393 | 176.00 | 79256 |
| 57.00 | 3232 | 78.00 | 598 | 117.00 | 1144 | 177.00 | 5097 |
| 60.00 | 1092 | 79.00 | 4394 | 118.00 | 413 | | |

Data File: /chem/5972hp59.i/DF090320059.b/9C20001-TUN159.d

Date: 20-MAR-2009 09:23

Client ID: BFB

Sample Info: 9C20001-TUN1J90

Volume Injected (uL): 2.0

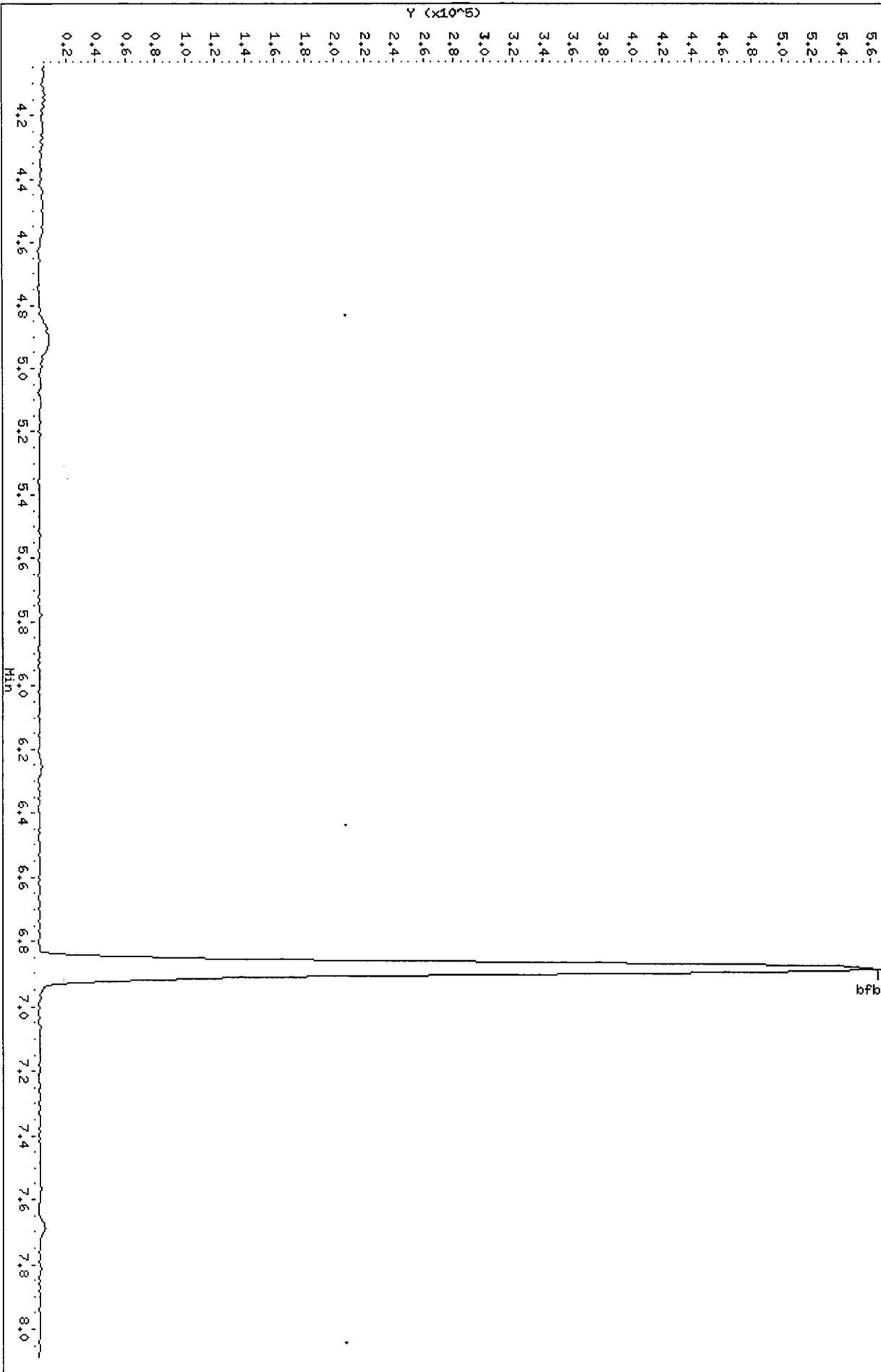
Column phase: SPB-624

Instrument: 5972hp59.i

Operator: J90

Column diameter: 0.32

/chem/5972hp59.i/DF090320059.b/9C20001-TUN159.d



b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument.
Shall include:

- Tabulated Results (Form I, VOA-1, VOA-2)
- Tentatively Identified Compounds (Form I VOA-TIC)
- Reconstructed Ion Chromatogram and quantitation report.
- Target compound spectra with lab-generated standard spectra.
- Quantitation/Calculation of TIC concentrations.
- GC/MS library search spectra for TICs.

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VELKGW

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9031712-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9031712-BLK191

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/17/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

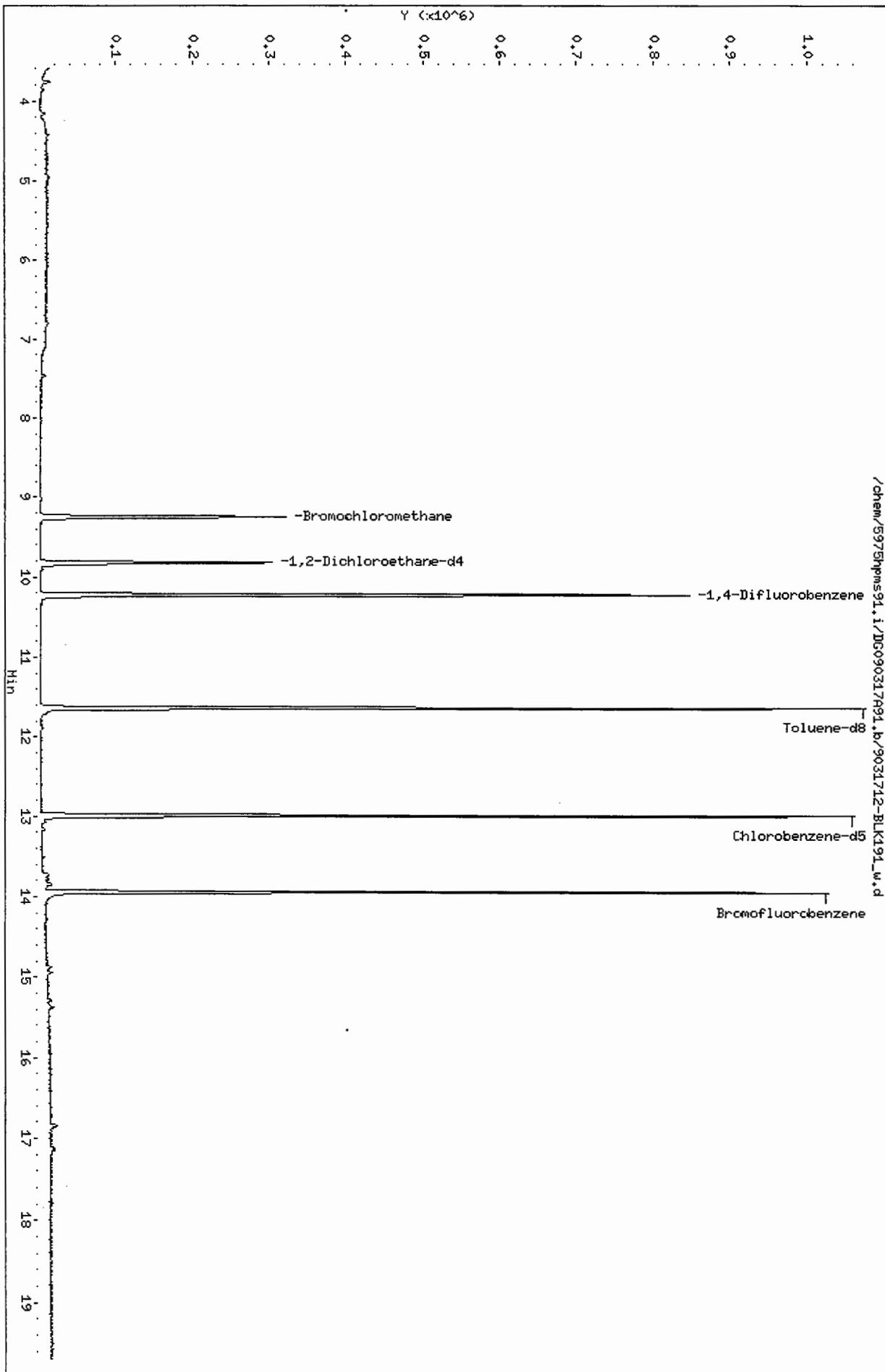
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
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| 30. | | | | |

Data File: /chem/5975hpms91.i/DC090317R91.b/9031712-BLK191_w.d
Date : 17-MAR-2009 14:57
Client ID: VBLKGM
Sample Info: 9031712-BLK1:J40
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: J40
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9031712-BLK191_w.d
 Lab Smp Id: 9031712-BLK1 Client Smp ID: VBLK̄GW
 Inj Date : 17-MAR-2009 14:57
 Operator : JAO Inst ID: 5975hpms91.i
 Smp Info : 9031712-BLK1:JAO
 Misc Info : VBLK̄GW
 Comment :
 Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
 Meth Date : 18-Mar-2009 16:21 walker Quant Type: ISTD
 Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
 Als bottle: 9 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|-----------------|---------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.250 | 9.244 | (1.000) | 87499 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 10.226 | 10.220 | (1.000) | 550059 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.993 | 12.994 | (1.000) | 529382 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.823 | 9.823 | (1.062) | 229757 | 242.099 | 48 |
| \$ 5 Toluene-d8 | 98 | 11.640 | 11.634 | (0.896) | 685623 | 238.081 | 48 |
| 6 Bromofluorobenzene | 95 | 13.944 | 13.945 | (1.073) | 298721 | 225.683 | 45 |
| 7 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | 64 | Compound Not Detected. | | | | | |
| 14 1,1-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |

Handwritten signature and date:
 3/18/09

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-----------|------|--------|--------|----------|--------------------|------------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | ==== | ==== | ==== | ==== | ==== | Compound Not Detected. |
| 29 Benzene | 78 | ==== | ==== | ==== | ==== | ==== | Compound Not Detected. |
| 30 Trichloroethene | 130 | ==== | ==== | ==== | ==== | ==== | Compound Not Detected. |
| 31 1,2-Dichloropropane | 63 | ==== | ==== | ==== | ==== | ==== | Compound Not Detected. |
| 40 Tetrachloroethene | 164 | ==== | ==== | ==== | ==== | ==== | Compound Not Detected. |
| 43 Chlorobenzene | 112 | ==== | ==== | ==== | ==== | ==== | Compound Not Detected. |
| 52 1,4-Dichlorobenzene | 146 | ==== | ==== | ==== | ==== | ==== | Compound Not Detected. |

Data File: /chem/5975hpms91.i/DG090317A91.b/9031712-BLK191_w.d
Report Date: 18-Mar-2009 17:25

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DG090317A91.b/9031712-BLK191_w.d
Lab Smp Id: 9031712-BLK1 Client Smp ID: VBLK̄GW
Inj Date : 17-MAR-2009 14:57
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 9031712-BLK1:JAO
Misc Info : VBLK̄GW
Comment :
Method : /chem/5975hpms91.i/DG090317A91.b/WOLM04v7.m
Meth Date : 18-Mar-2009 16:21 walker Quant Type: ISTD
Cal Date : 17-MAR-2009 14:30 Cal File: 9C17004-CAL391.d
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKHC

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9031922-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9031922-BLK159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

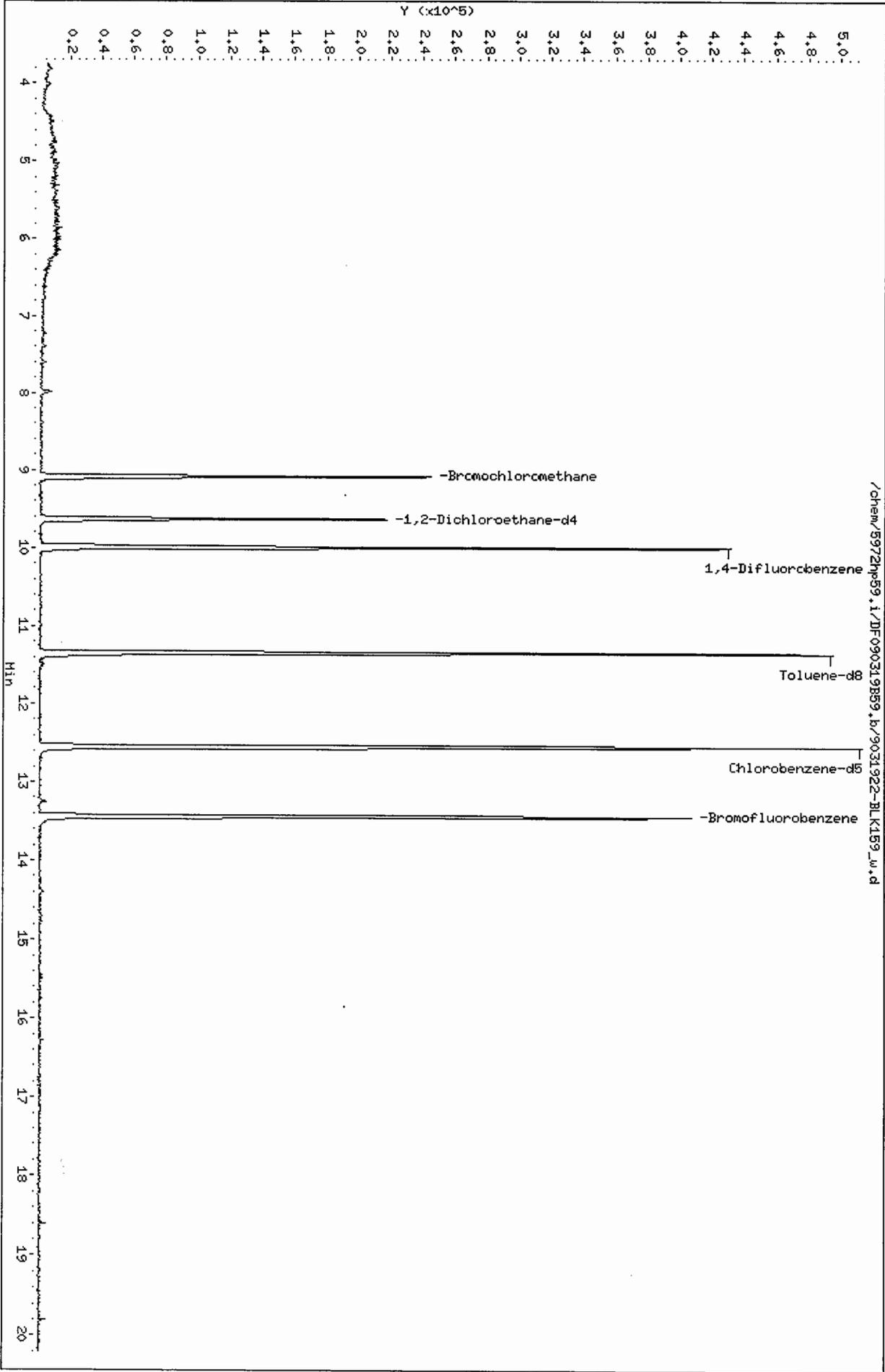
Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
| 2. | | | | |
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| 29. | | | | |
| 30. | | | | |

Data File: /chem/5972hp59.i/DF090319859.b/9031922-BLK159_w.d
Date: 20-HAR-2009 00:00
Client ID: VBLKHC
Sample Info: 9031922-BLK1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9031922-BLK159_w.d
Lab Smp Id: 9031922-BLK1 Client Smp ID: VBLKHC
Inj Date : 20-MAR-2009 00:00
Operator : TD Inst ID: 5972hp59.i
Smp Info : 9031922-BLK1:TD
Misc Info : VBLKHC
Comment :
Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | CONCENTRATIONS | | | | | | |
|-----------------------------|-----------|----------------|--------|--------|---------|----------|----------------|------------------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | | 9.083 | 9.087 | (1.000) | 58938 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | | 9.999 | 9.994 | (1.000) | 342822 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | | 12.552 | 12.547 | (1.000) | 289790 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | | 9.635 | 9.629 | (1.061) | 179092 | 262.681 | 53 |
| \$ 5 Toluene-d8 | 98 | | 11.350 | 11.344 | (0.904) | 375432 | 264.502 | 53 |
| \$ 6 Bromofluorobenzene | 95 | | 13.440 | 13.444 | (1.071) | 154731 | 216.126 | 43 |
| 7 Dichlorodifluoromethane | 85 | | | | | | | Compound Not Detected. |
| 9 Vinyl Chloride | 62 | | | | | | | Compound Not Detected. |
| 11 Chloroethane | 64 | | | | | | | Compound Not Detected. |
| 14 1,1-Dichloroethane | 96 | | | | | | | Compound Not Detected. |
| 18 Methylene Chloride | 84 | | | | | | | Compound Not Detected. |
| 20 trans-1,2-Dichloroethane | 96 | | | | | | | Compound Not Detected. |
| 21 1,1-Dichloroethane | 63 | | | | | | | Compound Not Detected. |
| 23 cis-1,2-Dichloroethane | 96 | | | | | | | Compound Not Detected. |
| 25 1,1,1-Trichloroethane | 97 | | | | | | | Compound Not Detected. |

Data File: /chem/5972hp59.i/DF090319B59.b/9031922-BLK159_w.d
Report Date: 20-Mar-2009 17:31

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-------------------|----|--------|--------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | | | | | | |
| 29 Benzene | 78 | | | | | | |
| 30 Trichloroethene | 130 | | | | | | |
| 31 1,2-Dichloropropane | 63 | | | | | | |
| 40 Tetrachloroethene | 164 | | | | | | |
| 43 Chlorobenzene | 112 | | | | | | |
| 52 1,4-Dichlorobenzene | 146 | | | | | | |

Data File: /chem/5972hp59.i/DF090319B59.b/9031922-BLK159_w.d
Report Date: 20-Mar-2009 17:31

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9031922-BLK159_w.d
Lab Smp Id: 9031922-BLK1 Client Smp ID: VBLKHC
Inj Date : 20-MAR-2009 00:00
Operator : TD Inst ID: 5972hp59.i
Smp Info : 9031922-BLK1:TD
Misc Info : VBLKHC
Comment :
Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKHD

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9032006-BLK1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9032006-BLK159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

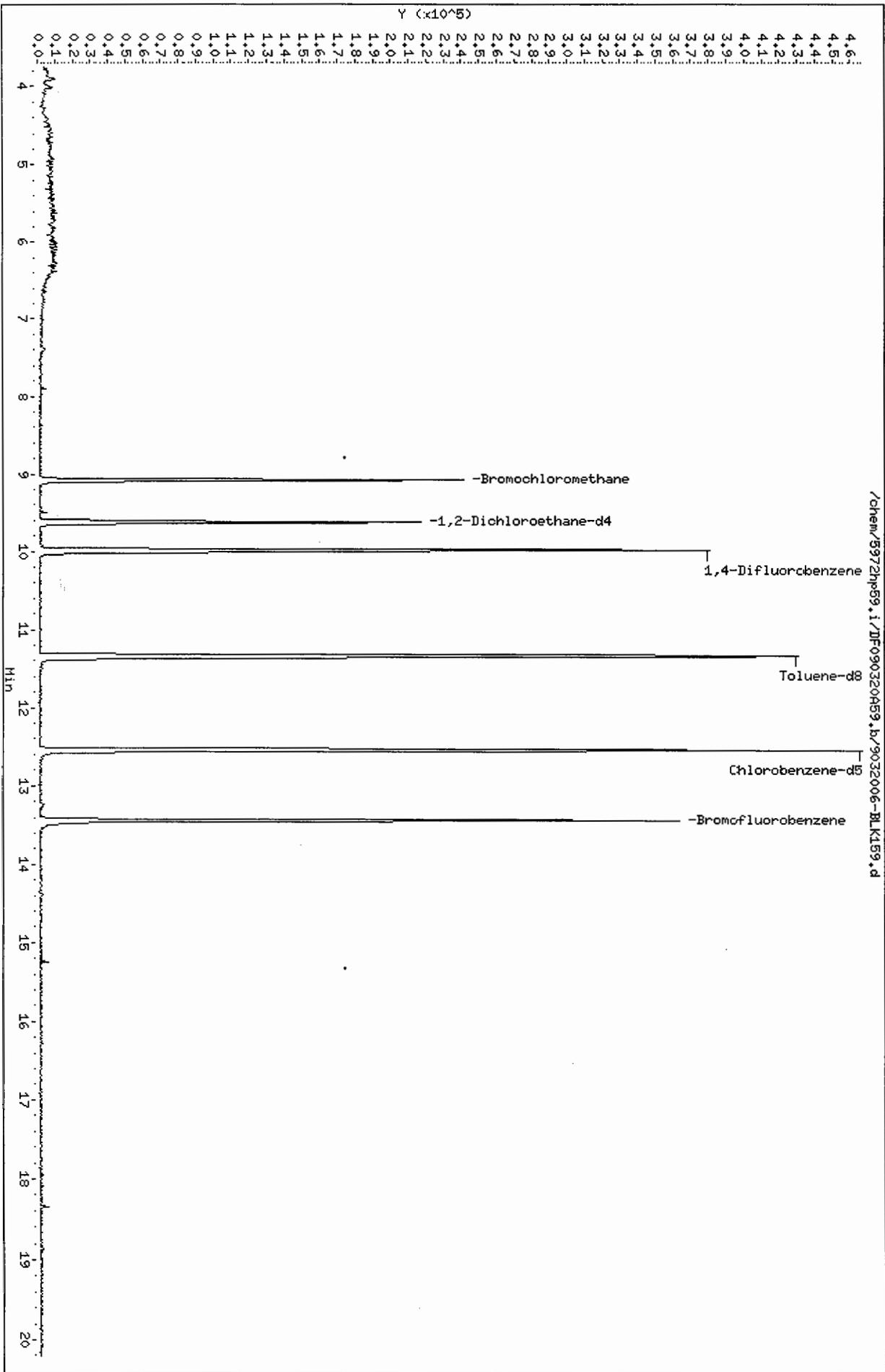
Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
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| 30. | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BLK159.d
Date: 20-MAR-2009 10:35
Client ID: VBLKHD
Sample Info: 9032006-BLK1+JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BLK159.d
 Report Date: 23-Mar-2009 19:10

CompuChem

OLM04..0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/9032006-BLK159.d
 Lab Smp Id: 9032006-BLK1 Client Smp ID: VBLKHD
 Inj Date : 20-MAR-2009 10:35
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 9032006-BLK1:JAO
 Misc Info : VBLKHD
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 2 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------------------------|--------|---------|----------|-----------------|---------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.081 | 9.086 | (1.000) | 54063 | 250.000 | |
| * 2 1,4-Difluorobenzene | 114 | 9.988 | 9.993 | (1.000) | 288275 | 250.000 | |
| * 3 Chlorobenzene-d5 | 117 | 12.541 | 12.546 | (1.000) | 256345 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.623 | 9.618 | (1.060) | 160070 | 231.811 | 46 |
| \$ 5 Toluene-d8 | 98 | 11.339 | 11.343 | (0.904) | 315869 | 259.031 | 52 |
| \$ 6 Bromofluorobenzene | 95 | 13.438 | 13.443 | (1.072) | 140490 | 231.603 | 46 |
| 7 Dichlorodifluoromethane | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | 64 | Compound Not Detected. | | | | | |
| 14 1,1-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | 97 | Compound Not Detected. | | | | | |

Handwritten signature and date: 3/23/09

Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BLK159.d
Report Date: 23-Mar-2009 19:10

| Compounds | QUANT SIG MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-------------------|----|--------|--------|----------|--------------------|------------------|
| | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | | | | | | |
| 29 Benzene | 78 | | | | | | |
| 30 Trichloroethene | 130 | | | | | | |
| 31 1,2-Dichloropropane | 63 | | | | | | |
| 40 Tetrachloroethene | 164 | | | | | | |
| 43 Chlorobenzene | 112 | | | | | | |
| 52 1,4-Dichlorobenzene | 146 | | | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BLK159.d
Report Date: 23-Mar-2009 19:10

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/9032006-BLK159.d
Lab Smp Id: 9032006-BLK1 Client Smp ID: VBLKHD
Inj Date : 20-MAR-2009 10:35
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 9032006-BLK1:JAO
Misc Info : VBLKHD
Comment :
Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|---------|
| VHBLKXR |
|---------|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903052-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903052-06R259

Level: (low/med) LOW

Date Received: 03/10/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
|---------|----------|---|
|---------|----------|---|

| | | | |
|----------|--------------------------|----|---|
| 75-71-8 | Dichlorodifluoromethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |

FORM I VOA-1

OLM04.2

1F
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKXR

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 0903052-06

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 0903052-06R259

Level: (low/med) LOW

Date Received: 03/10/09

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

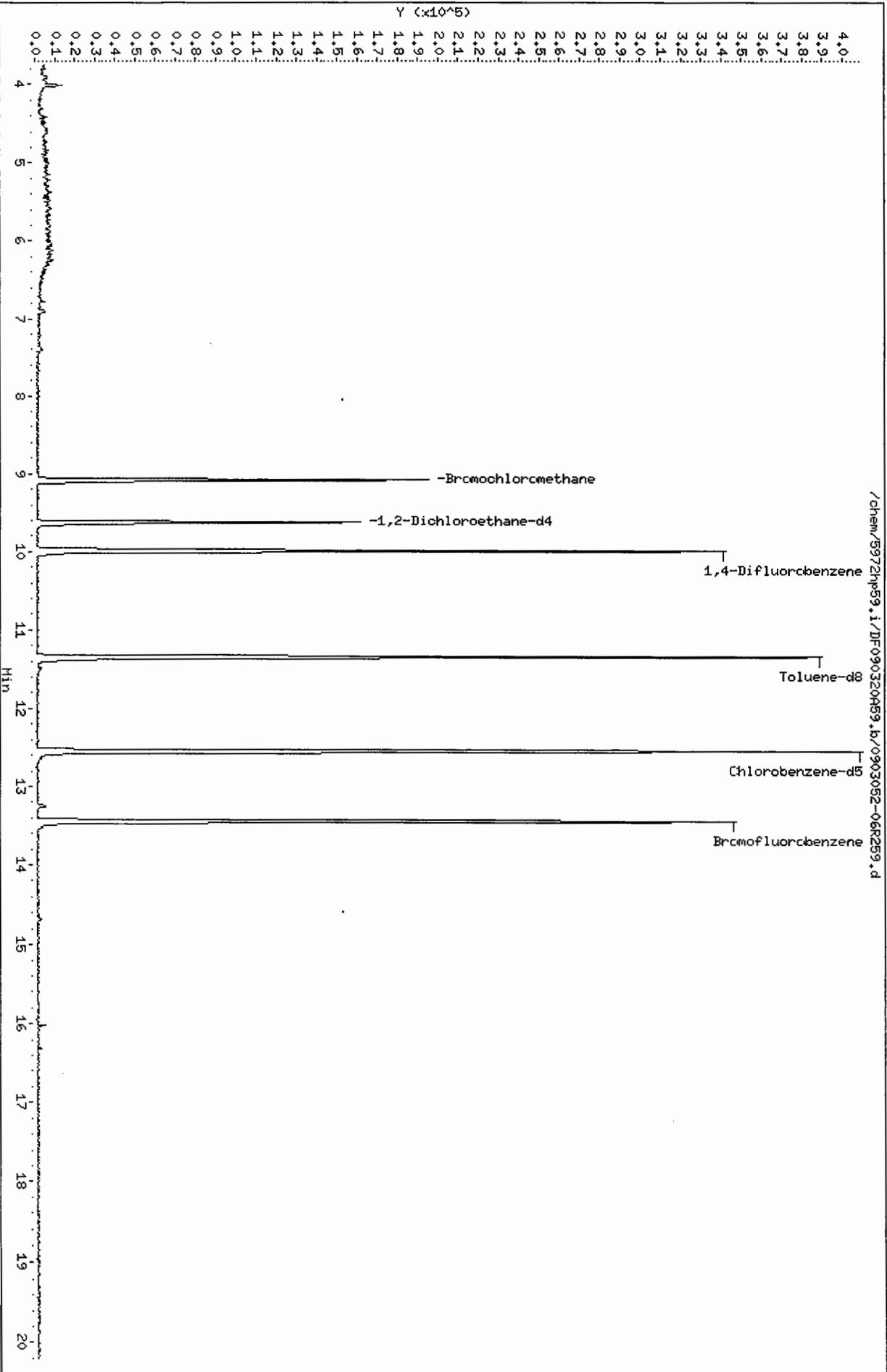
Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|-------|
| ===== | ===== | ===== | ===== | ===== |
| 1. | | | | |
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| 30. | | | | |

Data File: /chem/5972hp59.1/DF090320H59.1b/0903052-06R259.d
Date: 20-HAR-2009 14:57
Client ID: VHBKXR
Sample Info: 0903052-06:J40
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: J40
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/0903052-06R259.d
 Lab Smp Id: 0903052-06 Client Smp ID: VHBLKXR
 Inj Date : 20-MAR-2009 14:57
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 0903052-06:JAO
 Misc Info : VHBLKXR
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 9 QC Sample: STORAGEBLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|------|------------------------|--------|---------|----------|-----------------|---------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | ==== | 128 | 9.082 | 9.086 | (1.000) | 42455 | 250.000 | |
| * 2 1,4-Difluorobenzene | | 114 | 9.989 | 9.993 | (1.000) | 241641 | 250.000 | |
| * 3 Chlorobenzene-d5 | | 117 | 12.552 | 12.546 | (1.000) | 215084 | 250.000 | |
| \$ 4 1,2-Dichloroethane-d4 | | 65 | 9.624 | 9.618 | (1.060) | 130514 | 240.687 | 48 |
| \$ 5 Toluene-d8 | | 98 | 11.349 | 11.343 | (0.904) | 279815 | 273.484 | 55 |
| 6 Bromofluorobenzene | | 95 | 13.439 | 13.443 | (1.071) | 124075 | 243.781 | 49 |
| 7 Dichlorodifluoromethane | | 85 | Compound Not Detected. | | | | | |
| 9 Vinyl Chloride | | 62 | Compound Not Detected. | | | | | |
| 11 Chloroethane | | 64 | Compound Not Detected. | | | | | |
| 14 1,1-Dichloroethene | | 96 | Compound Not Detected. | | | | | |
| 18 Methylene Chloride | | 84 | Compound Not Detected. | | | | | |
| 20 trans-1,2-Dichloroethene | | 96 | Compound Not Detected. | | | | | |
| 21 1,1-Dichloroethane | | 63 | Compound Not Detected. | | | | | |
| 23 cis-1,2-Dichloroethene | | 96 | Compound Not Detected. | | | | | |
| 25 1,1,1-Trichloroethane | | 97 | Compound Not Detected. | | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/0903052-06R259.d
Report Date: 23-Mar-2009 19:10

| Compounds | QUANT SIG MASS | RT | EXP | RT | REL | RT | RESPONSE | CONCENTRATIONS | |
|------------------------|-------------------|----|-----|----|-----|----|----------|--------------------|------------------|
| | | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | | | | | | | | |
| 29 Benzene | 78 | | | | | | | | |
| 30 Trichloroethene | 130 | | | | | | | | |
| 31 1,2-Dichloropropane | 63 | | | | | | | | |
| 40 Tetrachloroethene | 164 | | | | | | | | |
| 43 Chlorobenzene | 112 | | | | | | | | |
| 52 1,4-Dichlorobenzene | 146 | | | | | | | | |

Data File: /chem/5972hp59.i/DF090320A59.b/0903052-06R259.d
Report Date: 23-Mar-2009 19:10

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/0903052-06R259.d
Lab Smp Id: 0903052-06 . Client Smp ID: VHBLKXR
Inj Date : 20-MAR-2009 14:57
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 0903052-06:JAO
Misc Info : VHBLKXR
Comment :
Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
Als bottle: 9 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: WATAUGA.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Laboratory Control Sample Data

- Tabulated Results (Form I VOA)
- Reconstructed Ion Chromatogram and quantitation report

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|--------|
| VHCLCS |
|--------|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9031922-BS1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9031922-BS159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
|---------|----------|---|
|---------|----------|---|

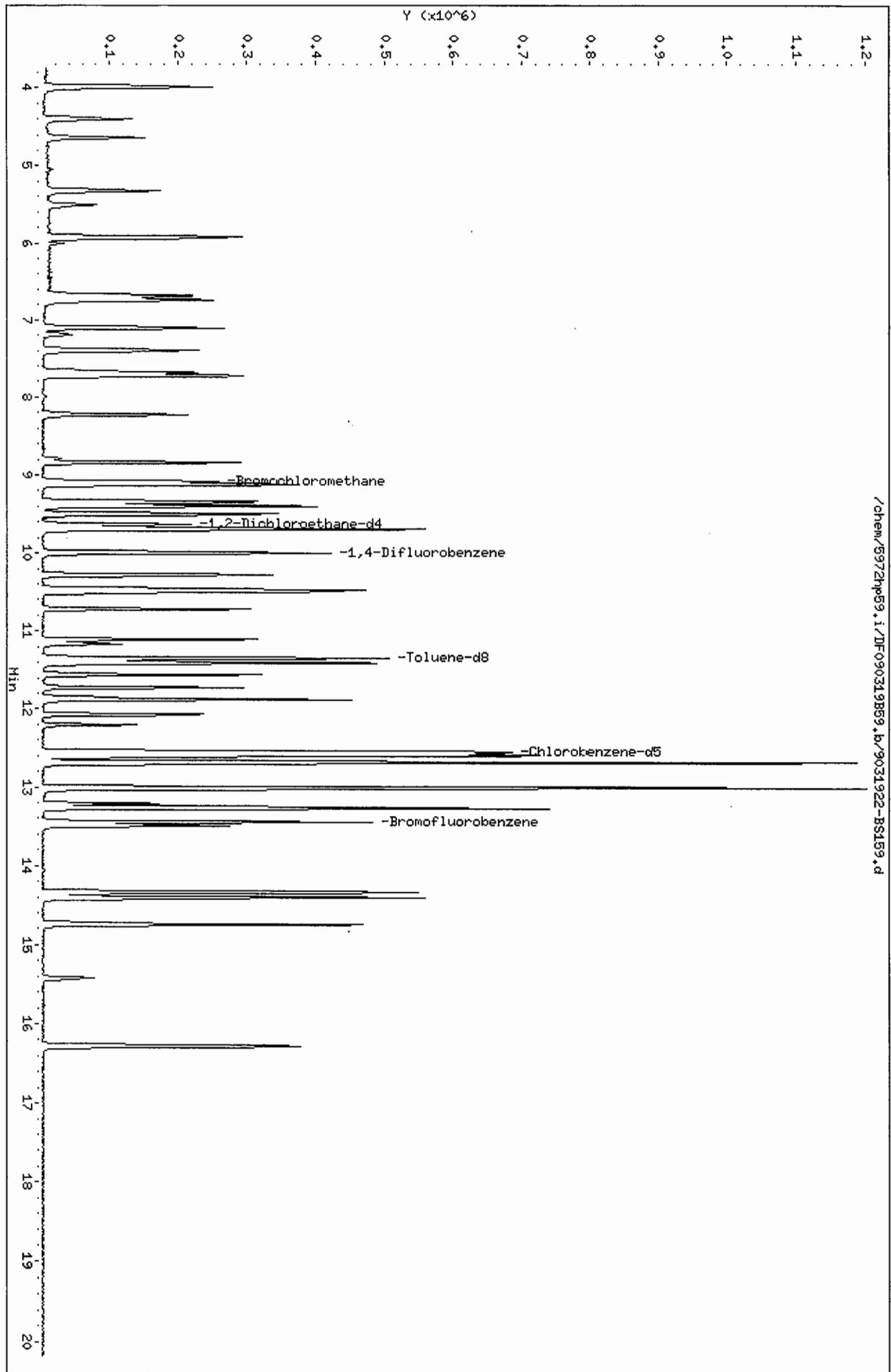
| | | | |
|----------|--------------------------|----|--|
| 75-71-8 | Dichlorodifluoromethane | 43 | |
| 75-01-4 | Vinyl Chloride | 45 | |
| 75-00-3 | Chloroethane | 47 | |
| 75-35-4 | 1,1-Dichloroethene | 47 | |
| 75-09-2 | Methylene Chloride | 47 | |
| 156-60-5 | trans-1,2-Dichloroethene | 48 | |
| 75-34-3 | 1,1-Dichloroethane | 47 | |
| 156-59-2 | cis-1,2-Dichloroethene | 46 | |
| 71-55-6 | 1,1,1-Trichloroethane | 54 | |
| 71-43-2 | Benzene | 51 | |
| 107-06-2 | 1,2-Dichloroethane | 50 | |
| 79-01-6 | Trichloroethene | 53 | |
| 78-87-5 | 1,2-Dichloropropane | 53 | |
| 127-18-4 | Tetrachloroethene | 51 | |
| 108-90-7 | Chlorobenzene | 50 | |
| 106-46-7 | 1,4-Dichlorobenzene | 49 | |

FORM I VOA-1

OLM04.2

Data File: /chem/5972hp59.i/DF090319B59.b/9031922-BS159.d
Date: 20-MAR-2009 00:37
Client ID: VHCLCS
Sample Info: 9031922-BS1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9031922-BS159.d
 Lab Smp Id: 9031922-BS1 Client Smp ID: VHCLCS
 Inj Date : 20-MAR-2009 00:37
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9031922-BS1:TD
 Misc Info : VHCLCS
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 7 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|--------|--------|---------|--------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.082 | 9.087 | (1.000) | 57232 | 250.000 | | |
| * 2 1,4-Difluorobenzene | 114 | 9.989 | 9.994 | (1.000) | 318659 | 250.000 | | |
| * 3 Chlorobenzene-d5 | 117 | 12.552 | 12.547 | (1.000) | 296967 | 250.000 | | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.625 | 9.629 | (1.060) | 175519 | 265.114 | 53 | |
| \$ 5 Toluene-d8 | 98 | 11.350 | 11.344 | (0.904) | 368750 | 253.516 | 51 | |
| \$ 6 Bromofluorobenzene | 95 | 13.440 | 13.444 | (1.071) | 187390 | 255.418 | 51 | |
| 7 Dichlorodifluoromethane | 85 | 3.986 | 3.991 | (0.439) | 346630 | 216.710 | 43 | |
| 9 Vinyl Chloride | 62 | 4.637 | 4.631 | (0.510) | 184297 | 223.574 | 45 | |
| 11 Chloroethane | 64 | 5.504 | 5.489 | (0.606) | 80004 | 236.502 | 47 | |
| 14 1,1-Dichloroethene | 96 | 6.736 | 6.731 | (0.742) | 85854 | 236.395 | 47 | |
| 18 Methylene Chloride | 84 | 7.397 | 7.392 | (0.814) | 114980 | 232.628 | 47 | |
| 20 trans-1,2-Dichloroethene | 96 | 7.722 | 7.727 | (0.850) | 107507 | 241.514 | 48 | |
| 21 1,1-Dichloroethane | 63 | 8.225 | 8.229 | (0.906) | 226946 | 235.548 | 47 | |
| 23 cis-1,2-Dichloroethene | 96 | 8.846 | 8.841 | (0.974) | 106704 | 229.128 | 46 | |
| 25 1,1,1-Trichloroethane | 97 | 9.339 | 9.343 | (0.935) | 227990 | 270.750 | 54 | |

Data File: /chem/5972hp59.i/DF090319B59.b/9031922-BS159.d
Report Date: 20-Mar-2009 17:30

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 28 1,2-Dichloroethane | 62 | 9.704 | 9.698 | (1.068) | 185988 | 248.679 | 50 |
| 29 Benzene | 78 | 9.684 | 9.679 | (0.969) | 432143 | 254.085 | 51 |
| 30 Trichloroethene | 130 | 10.285 | 10.280 | (1.030) | 105190 | 265.245 | 53 |
| 31 1,2-Dichloropropane | 63 | 10.502 | 10.497 | (1.051) | 115876 | 265.199 | 53 |
| 40 Tetrachloroethene | 164 | 11.882 | 11.887 | (0.947) | 86971 | 256.859 | 51 |
| 43 Chlorobenzene | 112 | 12.572 | 12.577 | (1.002) | 264188 | 249.317 | 50 |
| 52 1,4-Dichlorobenzene | 146 | 14.406 | 14.410 | (1.148) | 236912 | 245.452 | 49 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|---------|
| VHCLCSD |
|---------|

Lab Name: COMPUCHEM

Contract: OLM04.3

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 0903085

Matrix: (soil/water) WATER

Lab Sample ID: 9031922-BSD1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 9031922-BSD159

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/20/09

GC Column: SPB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

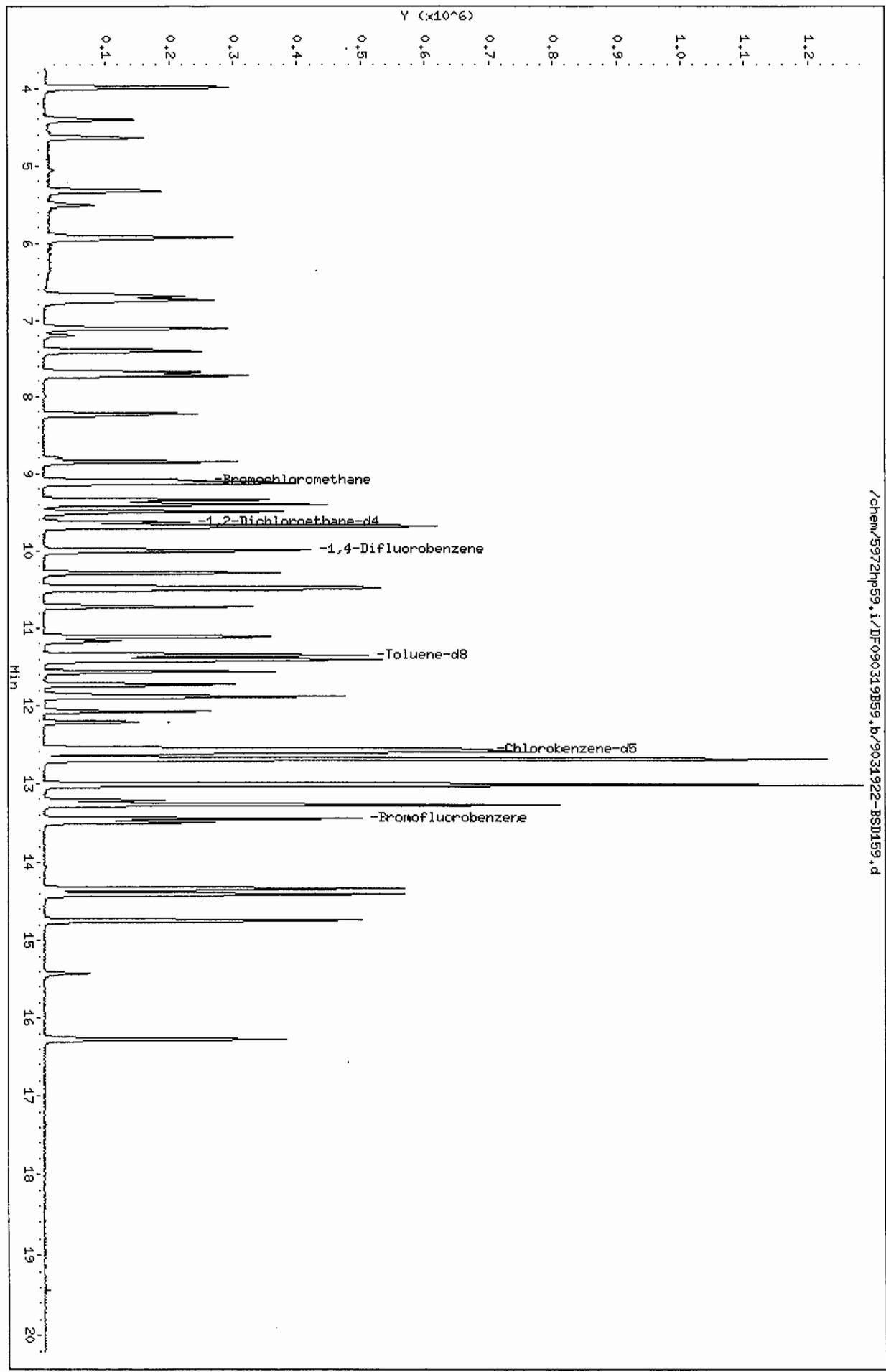
| | | | |
|----------|--------------------------|----|--|
| 75-71-8 | Dichlorodifluoromethane | 48 | |
| 75-01-4 | Vinyl Chloride | 50 | |
| 75-00-3 | Chloroethane | 51 | |
| 75-35-4 | 1,1-Dichloroethene | 53 | |
| 75-09-2 | Methylene Chloride | 50 | |
| 156-60-5 | trans-1,2-Dichloroethene | 52 | |
| 75-34-3 | 1,1-Dichloroethane | 53 | |
| 156-59-2 | cis-1,2-Dichloroethene | 51 | |
| 71-55-6 | 1,1,1-Trichloroethane | 60 | |
| 71-43-2 | Benzene | 55 | |
| 107-06-2 | 1,2-Dichloroethane | 56 | |
| 79-01-6 | Trichloroethene | 57 | |
| 78-87-5 | 1,2-Dichloropropane | 56 | |
| 127-18-4 | Tetrachloroethene | 52 | |
| 108-90-7 | Chlorobenzene | 53 | |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | |

FORM I VOA-1

OLM04.2

Data File: /chem/5972hp59.i/DF090319B59.b/9031922-BSD159.d
Date: 20-MAR-2009 01:05
Client ID: VHCICSD
Sample Info: 9031922-BSD1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: TD
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090319B59.b/9031922-BSD159.d
 Lab Smp Id: 9031922-BSD1 Client Smp ID: VHCLCSD
 Inj Date : 20-MAR-2009 01:05
 Operator : TD Inst ID: 5972hp59.i
 Smp Info : 9031922-BSD1:TD
 Misc Info : VHCLCSD
 Comment :
 Method : /chem/5972hp59.i/DF090319B59.b/WOLM04v7.m
 Meth Date : 20-Mar-2009 17:24 walker Quant Type: ISTD
 Cal Date : 19-MAR-2009 23:32 Cal File: 9C19009-CAL359.d
 Als bottle: 8 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

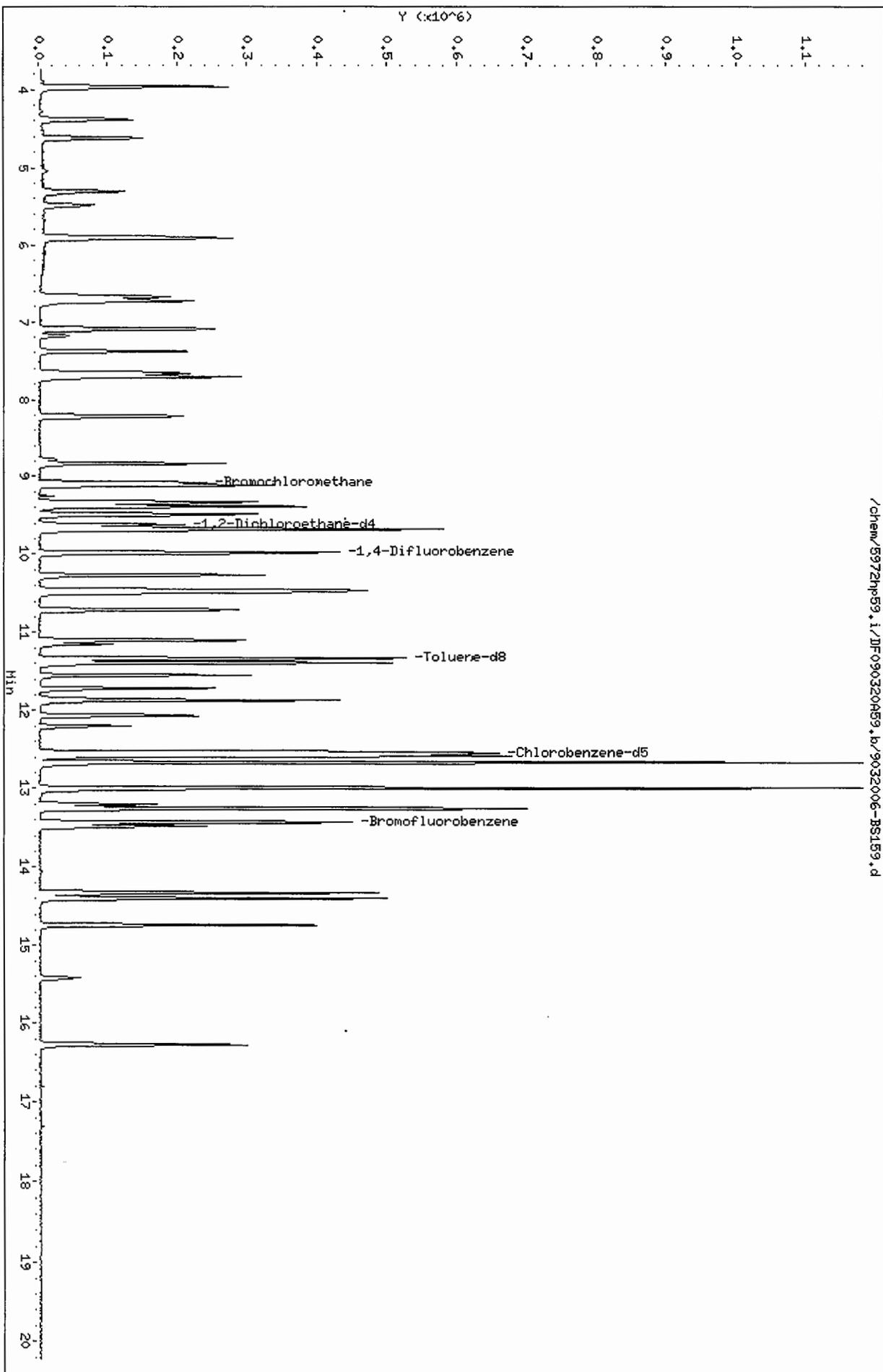
| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|--------|--------|---------|--------|----------|--------------------|------------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.086 | 9.087 | (1.000) | 56441 | 250.000 | | |
| * 2 1,4-Difluorobenzene | 114 | 9.993 | 9.994 | (1.000) | 316151 | 250.000 | | |
| * 3 Chlorobenzene-d5 | 117 | 12.556 | 12.547 | (1.000) | 304720 | 250.000 | | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.628 | 9.629 | (1.060) | 180302 | 276.156 | 55 | |
| \$ 5 Toluene-d8 | 98 | 11.343 | 11.344 | (0.903) | 381146 | 255.371 | 51 | |
| \$ 6 Bromofluorobenzene | 95 | 13.443 | 13.444 | (1.071) | 187784 | 249.443 | 50 | |
| 7 Dichlorodifluoromethane | 85 | 3.989 | 3.991 | (0.439) | 380323 | 241.107 | 48 | |
| 9 Vinyl Chloride | 62 | 4.640 | 4.631 | (0.511) | 201796 | 248.233 | 50 | |
| 11 Chloroethane | 64 | 5.507 | 5.489 | (0.606) | 84838 | 254.307 | 51 | |
| 14 1,1-Dichloroethene | 96 | 6.739 | 6.731 | (0.742) | 94264 | 263.189 | 53 | |
| 18 Methylene Chloride | 84 | 7.400 | 7.392 | (0.814) | 122165 | 250.628 | 50 | |
| 20 trans-1,2-Dichloroethene | 96 | 7.725 | 7.727 | (0.850) | 113512 | 258.578 | 52 | |
| 21 1,1-Dichloroethane | 63 | 8.228 | 8.229 | (0.906) | 253285 | 266.570 | 53 | |
| 23 cis-1,2-Dichloroethene | 96 | 8.849 | 8.841 | (0.974) | 117274 | 255.354 | 51 | |
| 25 1,1,1-Trichloroethane | 97 | 9.342 | 9.343 | (0.935) | 249216 | 298.305 | 60 | |

Data File: /chem/5972hp59.i/DF090319B59.b/9031922-BSD159.d
Report Date: 20-Mar-2009 17:30

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| 28 1,2-Dichloroethane | 62 | 9.707 | 9.698 | (1.068) | 206670 | 280.205 | 56 |
| 29 Benzene | 78 | 9.687 | 9.679 | (0.969) | 465114 | 275.641 | 55 |
| 30 Trichloroethene | 130 | 10.288 | 10.280 | (1.030) | 111739 | 283.994 | 57 |
| 31 1,2-Dichloropropane | 63 | 10.505 | 10.497 | (1.051) | 121167 | 279.508 | 56 |
| 40 Tetrachloroethene | 164 | 11.885 | 11.887 | (0.947) | 90912 | 261.667 | 52 |
| 43 Chlorobenzene | 112 | 12.575 | 12.577 | (1.002) | 287409 | 264.330 | 53 |
| 52 1,4-Dichlorobenzene | 146 | 14.409 | 14.410 | (1.148) | 246059 | 248.443 | 50 |

Data File: /chem/5972hp59.i/JF090320A59.br/9032006-BS159.d
Date: 20-HAR-2009 11:11
Client ID: WHDLC5
Sample Info: 9032006-BS1:J40
Purge Volume: 5.0
Column Phase: SPB-624

Instrument: 5972hp59.i
Operator: J40
Column diameter: 0.32



CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/9032006-BS159.d
 Lab Smp Id: 9032006-BS1 Client Smp ID: VHD LCS
 Inj Date : 20-MAR-2009 11:11
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 9032006-BS1:JAO
 Misc Info : VHD LCS
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|--------|--------|---------|--------|----------|-----------------|---------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.076 | 9.086 | (1.000) | 53068 | 250.000 | | |
| * 2 1,4-Difluorobenzene | 114 | 9.983 | 9.993 | (1.000) | 300327 | 250.000 | | |
| * 3 Chlorobenzene-d5 | 117 | 12.546 | 12.546 | (1.000) | 272433 | 250.000 | | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.618 | 9.618 | (1.060) | 162925 | 240.369 | 48 | |
| \$ 5 Toluene-d8 | 98 | 11.334 | 11.343 | (0.903) | 339990 | 262.347 | 52 | |
| \$ 6 Bromofluorobenzene | 95 | 13.433 | 13.443 | (1.071) | 163266 | 253.256 | 51 | |
| 7 Dichlorodifluoromethane | 85 | 3.970 | 3.980 | (0.437) | 335309 | 279.156 | 56 | |
| 9 Vinyl Chloride | 62 | 4.620 | 4.630 | (0.509) | 176973 | 278.182 | 56 | |
| 11 Chloroethane | 64 | 5.488 | 5.498 | (0.605) | 81126 | 291.706 | 58 | |
| 14 1,1-Dichloroethene | 96 | 6.730 | 6.740 | (0.741) | 78580 | 270.067 | 54 | |
| 18 Methylene Chloride | 84 | 7.390 | 7.390 | (0.814) | 109910 | 291.685 | 58 | |
| 20 trans-1,2-Dichloroethene | 96 | 7.716 | 7.716 | (0.850) | 100324 | 302.863 | 61 | |
| 21 1,1-Dichloroethane | 63 | 8.219 | 8.218 | (0.905) | 219755 | 313.904 | 63 | |
| 23 cis-1,2-Dichloroethene | 96 | 8.840 | 8.839 | (0.974) | 102923 | 306.318 | 61 | |
| 25 1,1,1-Trichloroethane | 97 | 9.332 | 9.332 | (0.935) | 219011 | 268.829 | 54 | |

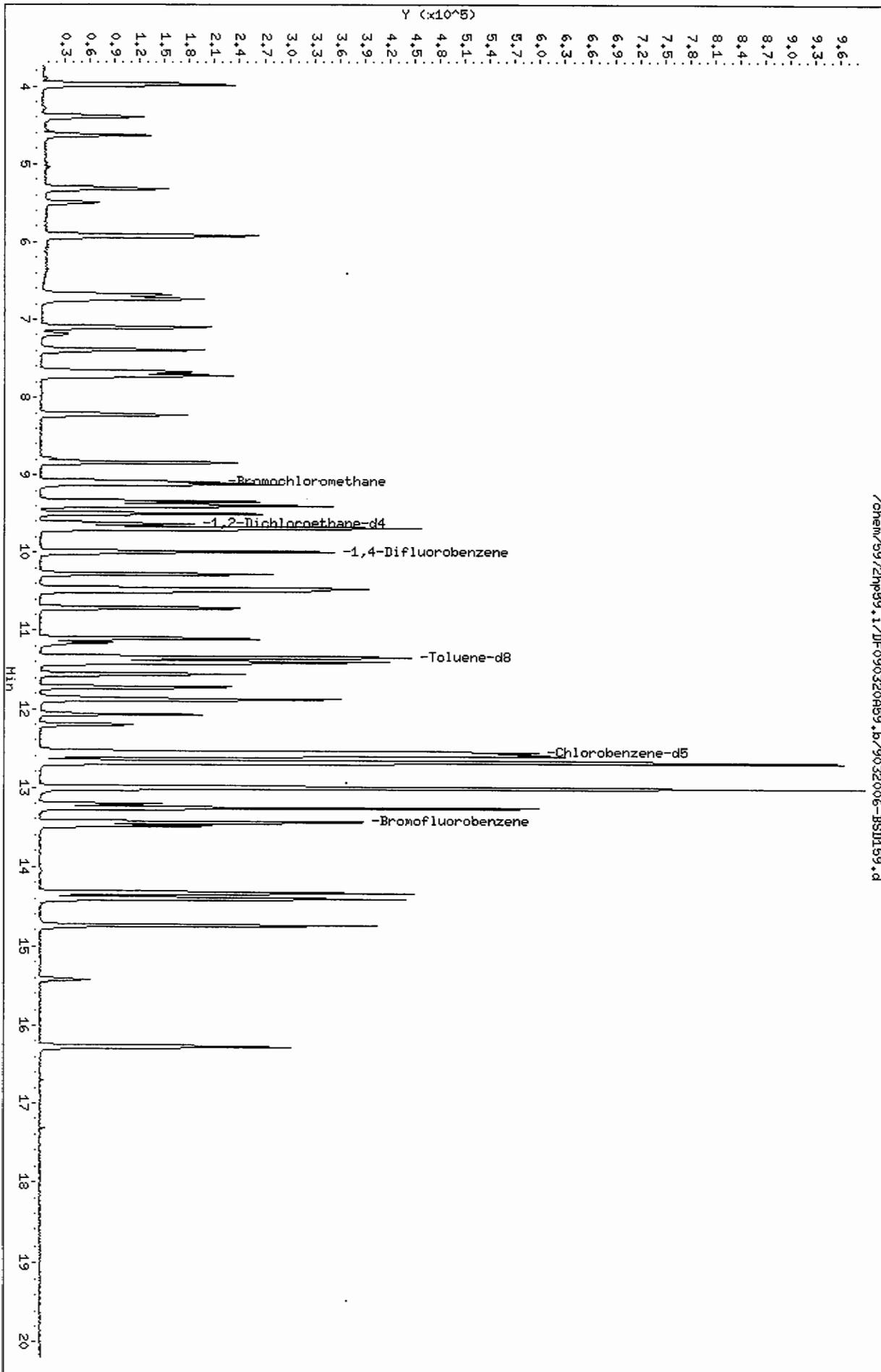
Handwritten signature and date:
 3/23/09

Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BS159.d
Report Date: 23-Mar-2009 19:08

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | | |
|------------------------|-----------|----|----------------|--------|---------|----------|--------------------|------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ===== | == | ===== | ===== | ===== | ===== | ===== | ===== |
| 28 1,2-Dichloroethane | 62 | | 9.697 | 9.697 | (1.068) | 180372 | 308.789 | 62 |
| 29 Benzene | 78 | | 9.677 | 9.677 | (0.969) | 423983 | 288.311 | 58 |
| 30 Trichloroethene | 130 | | 10.269 | 10.279 | (1.029) | 98102 | 257.304 | 51 |
| 31 1,2-Dichloropropane | 63 | | 10.496 | 10.495 | (1.051) | 108227 | 273.757 | 55 |
| 40 Tetrachloroethene | 164 | | 11.876 | 11.876 | (0.947) | 78752 | 273.802 | 55 |
| 43 Chlorobenzene | 112 | | 12.566 | 12.566 | (1.002) | 236743 | 264.862 | 53 |
| 52 1,4-Dichlorobenzene | 146 | | 14.399 | 14.409 | (1.148) | 207067 | 263.614 | 53 |

Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BSDL159.d
 Date: 20-MAR-2009 11:39
 Client ID: WHDLCSD
 Sample Info: 9032006-BSDL:JAO
 Purge Volume: 5.0
 Column phase: SPB-624

Instrument: 5972hp59.i
 Operator: JAO
 Column diameter: 0.32



Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BSD159.d
 Report Date: 23-Mar-2009 19:08

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp59.i/DF090320A59.b/9032006-BSD159.d
 Lab Smp Id: 9032006-BSD1 Client Smp ID: VHDLCSD
 Inj Date : 20-MAR-2009 11:39
 Operator : JAO Inst ID: 5972hp59.i
 Smp Info : 9032006-BSD1:JAO
 Misc Info : VHDLCSD
 Comment :
 Method : /chem/5972hp59.i/DF090320A59.b/WOLM04v7.m
 Meth Date : 23-Mar-2009 19:07 walker Quant Type: ISTD
 Cal Date : 20-MAR-2009 09:56 Cal File: 9C20001-CCV159.d
 Als bottle: 4 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: WATAUGA.sub
 Target Version: 3.50
 Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

| Name | Value | Description |
|------|---------|---------------------------|
| DF | 1.00000 | Dilution Factor |
| Vo | 5.00000 | Sample Volume purged (mL) |
| DF | 1.00000 | |

Cpnd Variable

Local Compound Variable

| Compounds | QUANT SIG | MASS | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------|-----------|--------|--------|---------|--------|----------|-----------------|---------------|
| | | | | | | | ON-COLUMN (ng) | FINAL (ug/L) |
| * 1 Bromochloromethane | 128 | 9.086 | 9.086 | (1.000) | 47312 | 250.000 | | |
| * 2 1,4-Difluorobenzene | 114 | 9.993 | 9.993 | (1.000) | 265821 | 250.000 | | |
| * 3 Chlorobenzene-d5 | 117 | 12.546 | 12.546 | (1.000) | 263511 | 250.000 | | |
| \$ 4 1,2-Dichloroethane-d4 | 65 | 9.628 | 9.618 | (1.060) | 145516 | 240.804 | 48 | |
| 5 Toluene-d8 | 98 | 11.344 | 11.343 | (0.904) | 318648 | 254.204 | 51 | |
| 6 Bromofluorobenzene | 95 | 13.433 | 13.443 | (1.071) | 157580 | 252.712 | 51 | |
| 7 Dichlorodifluoromethane | 85 | 3.980 | 3.980 | (0.438) | 311553 | 290.934 | 58 | |
| 9 Vinyl Chloride | 62 | 4.631 | 4.630 | (0.510) | 167383 | 295.117 | 59 | |
| 11 Chloroethane | 64 | 5.498 | 5.498 | (0.605) | 76084 | 306.859 | 61 | |
| 14 1,1-Dichloroethene | 96 | 6.740 | 6.740 | (0.742) | 73549 | 283.529 | 57 | |
| 18 Methylene Chloride | 84 | 7.391 | 7.390 | (0.813) | 96210 | 286.390 | 57 | |
| 20 trans-1,2-Dichloroethene | 96 | 7.716 | 7.716 | (0.849) | 88042 | 298.121 | 60 | |
| 21 1,1-Dichloroethane | 63 | 8.229 | 8.218 | (0.906) | 193344 | 309.778 | 62 | |
| 23 cis-1,2-Dichloroethene | 96 | 8.840 | 8.839 | (0.973) | 88210 | 294.469 | 59 | |
| 25 1,1,1-Trichloroethane | 97 | 9.342 | 9.332 | (0.935) | 185623 | 257.423 | 51 | |

Data File: /chem/5972hp59.i/DF090320A59.b/9032006-BSD159.d
Report Date: 23-Mar-2009 19:08

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | |
|------------------------|-----------|--------|----------------|---------|----------|--------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ng) | FINAL (ug/L) |
| ===== | ==== | == | ===== | ===== | ===== | ===== | ===== |
| 28 1,2-Dichloroethane | 62 | 9.697 | 9.697 | (1.067) | 157934 | 303.270 | 61 |
| 29 Benzene | 78 | 9.678 | 9.677 | (0.968) | 354525 | 272.374 | 54 |
| 30 Trichloroethene | 130 | 10.279 | 10.279 | (1.029) | 86193 | 255.414 | 51 |
| 31 1,2-Dichloropropane | 63 | 10.496 | 10.495 | (1.050) | 90999 | 260.059 | 52 |
| 40 Tetrachloroethene | 164 | 11.876 | 11.876 | (0.947) | 72356 | 260.082 | 52 |
| 43 Chlorobenzene | 112 | 12.566 | 12.566 | (1.002) | 226646 | 262.151 | 52 |
| 52 1,4-Dichlorobenzene | 146 | 14.409 | 14.409 | (1.148) | 200194 | 263.493 | 53 |

c. Matrix Spike Data

- Tabulated Results (Form I, VOA-1, VOA-2)
- Reconstructed Ion Chromatogram and quantitation report

d. Matrix Spike Duplicate Data

- Tabulated Results (Form I, VOA-1, VOA-2)
- Reconstructed Ion Chromatogram and quantitation report