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July 29, 2010

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, Permit #95-02, on March 17-18, 2010. 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 2010 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 and/or freshwater aquatic life criteria.

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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 in 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 2010. 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., Environmental Program Manager, DAA

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

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 17-18, 2010

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

Notification attached?

☐ No. No groundwater or surface water standards 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.

Bill Newcomb, P.G.	Senior Hydrogeologist	540-552-0444
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature 8-2-10 Date

Affix NC Licensed/ Professional Geologist Seal

2208 South Main St., Blacksburg, VA. 24060

Facility Representative Address

C-0861

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

Closed Watauga County Landfill - March 17-18, 2010
Groundwater Water Monitoring Data that Exceed NC 2L Standards.

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	2L stnd	RESULT	UNITS	QUAL	METHOD	MDL	MRL	SWSL	D. F.	COLLECT DATE	ANALYSIS DATE	NC LAB. CERT. #
95-02	9502-MW2	71-55-6	200	1,1,1-Trichloroethane	200	470	UG/L		8260B	0.02	0.5	0.5	16.7	3/18/2010	3/31/2010	79
95-02	9502-RES5	75-34-3	75	1,1-Dichloroethane	6	28	ug/l		524.2	1	5	5	10	3/18/2010	3/25/2010	79
95-02	9502-MW12	75-34-3	75	1,1-Dichloroethane	6	19	UG/L		8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	75-34-3	75	1,1-Dichloroethane	6	56	UG/L		8260B	0.02	0.5	0.5	16.7	3/18/2010	3/31/2010	79
95-02	9502-MW3	75-34-3	75	1,1-Dichloroethane	6	7.8	UG/L		8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	75-34-3	75	1,1-Dichloroethane	6	13	UG/L		8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	75-35-4	77	1,1-Dichloroethene	7	89	UG/L		8260B	0.04	0.5	0.5	16.7	3/18/2010	3/31/2010	79
95-02	9502-MW12	78-87-5	82	1,2-Dichloropropane	0.6	0.77	UG/L		8260B	0.12	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	71-43-2	16	Benzene	1	3	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7440-47-3	51	Chromium	10	30	UG/L		ILM05.4	3.1	10	10	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	7439-89-6	340	Iron	300	455	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	7439-89-6	340	Iron	300	1600	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	7439-89-6	340	Iron	300	1860	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7439-89-6	340	Iron	300	9620	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	127-18-4	192	Tetrachloroethene	0.7	2.8	UG/L		8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	127-18-4	192	Tetrachloroethene	0.7	1.5	UG/L		8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	127-18-4	192	Tetrachloroethene	0.7	4.8	UG/L		8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	79-01-6	201	Trichloroethene	3	3.9	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-RES5	75-01-4	211	Vinyl chloride	0.03	0.5	ug/l	J	524.2	0.1	0.5	0.5	1	3/18/2010	3/25/2010	79
95-02	9502-MW12	75-01-4	211	Vinyl chloride	0.03	1.7	UG/L		8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	75-01-4	211	Vinyl chloride	0.03	0.55	UG/L		8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	75-01-4	211	Vinyl chloride	0.03	0.23	UG/L	J	8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	75-01-4	211	Vinyl chloride	0.03	1.9	UG/L		8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79

Closed Watauga County Landfill - March 17-18, 2010 Assessment Monitoring Event
Groundwater and Surface Water Monitoring Data that Equal or Exceed Reporting Limits

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	Q.	METHOD	MDL	MRL	SWSL	DIL	COLLECT DATE	ANALYSIS DATE	NC LAB CERT. #
95-02	9502-MW12	7440-62-2	209	Vanadium	0.9	UG/L	J	ILM05.4	0.75	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	75-01-4	211	Vinyl chloride	1.7	UG/L		8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	107-06-2	76	1,2-Dichloroethane	0.4	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	78-87-5	82	1,2-Dichloropropane	0.77	UG/L		8260B	0.12	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	127-18-4	192	Tetrachloroethene	2.8	UG/L		8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	71-43-2	16	Benzene	0.23	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	79-01-6	201	Trichloroethene	3.9	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	75-09-2	140	Methylene chloride	0.34	UG/L	B	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	106-46-7	71	1,4-Dichlorobenzene	1.5	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	75-34-3	75	1,1-Dichloroethane	19	UG/L		8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	75-35-4	77	1,1-Dichloroethene	0.27	UG/L	J	8260B	0.04	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	95-50-1	69	1,2-Dichlorobenzene	0.15	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	108-90-7	39	Chlorobenzene	0.23	UG/L	J	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	67-66-3	44	Chloroform	0.29	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	156-59-2	78	cis-1,2-Dichloroethene	41	UG/L		8260B	0.03	0.5	0.5	1.7	3/18/2010	3/31/2010	79
95-02	9502-MW12	7440-02-0	152	Nickel	3.4	UG/L	J	ILM05.4	1.9	40	40	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	156-60-5	79	trans-1,2-Dichloroethene	0.54	UG/L		8260B	0.05	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	71-55-6	200	1,1,1-Trichloroethane	0.082	UG/L	J	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	108-88-3	196	Toluene	0.056	UG/L	B	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	7440-39-3	15	Barium	330	UG/L		ILM05.4	1.3	200	200	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	75-71-8	74	Dichlorodifluoromethane	0.14	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW12	75-00-3	41	Chloroethane	6.5	UG/L		8260B	0.2	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	7440-62-2	209	Vanadium	1.1	UG/L	J	ILM05.4	0.75	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	7440-48-4	53	Cobalt	3.7	UG/L	J	ILM05.4	0.98	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	127-18-4	192	Tetrachloroethene	1.5	UG/L		8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	79-01-6	201	Trichloroethene	0.43	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	75-34-3	75	1,1-Dichloroethane	1	UG/L		8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	91-20-3	148	Naphthalene	0.16	UG/L	J	8260B	0.15	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	67-66-3	44	Chloroform	0.059	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	156-59-2	78	cis-1,2-Dichloroethene	1.9	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	7440-02-0	152	Nickel	4.1	UG/L	J	ILM05.4	1.9	40	40	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	7439-89-6	340	Iron	455	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	108-88-3	196	Toluene	0.05	UG/L	B	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	7440-39-3	15	Barium	521	UG/L		ILM05.4	1.3	200	200	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	75-71-8	74	Dichlorodifluoromethane	0.038	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW17	67-64-1	3	Acetone	1.7	UG/L	B	8260B	0.44	2.5	2.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	79-00-5	202	1,1,2-Trichloroethane	0.092	UG/L	J	8260B	0.04	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	7440-62-2	209	Vanadium	3.9	UG/L	J	ILM05.4	0.75	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	75-01-4	211	Vinyl chloride	0.55	UG/L		8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	127-18-4	192	Tetrachloroethene	4.8	UG/L		8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	79-01-6	201	Trichloroethene	0.54	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	75-09-2	140	Methylene chloride	0.38	UG/L	B	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	75-34-3	75	1,1-Dichloroethane	56	UG/L		8260B	0.02	0.5	0.5	16.7	3/18/2010	3/31/2010	79

Closed Watauga County Landfill - March 17-18, 2010 Assessment Monitoring Event
Groundwater and Surface Water Monitoring Data that Equal or Exceed Reporting Limits

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	Q	METHOD	MDL	MRL	SWSL	DIL	COLLECT DATE	ANALYSIS DATE	NC LAB CERT. #
95-02	9502-MW2	75-35-4	77	1,1-Dichloroethene	89	UG/L		8260B	0.04	0.5	0.5	16.7	3/18/2010	3/31/2010	79
95-02	9502-MW2	156-59-2	78	cis-1,2-Dichloroethene	0.26	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	67-66-3	44	Chloroform	0.059	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	7440-02-0	152	Nickel	2.8	UG/L	J	ILM05.4	1.9	40	40	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	71-55-6	200	1,1,1-Trichloroethane	470	UG/L		8260B	0.02	0.5	0.5	16.7	3/18/2010	3/31/2010	79
95-02	9502-MW2	7439-89-6	340	Iron	1600	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	108-88-3	196	Toluene	0.054	UG/L	B	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	7440-39-3	15	Barium	304	UG/L		ILM05.4	1.3	200	200	1	3/18/2010	3/31/2010	79
95-02	9502-MW2	67-64-1	3	Acetone	1.3	UG/L	B	8260B	0.44	2.5	2.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	7440-62-2	209	Vanadium	4.6	UG/L	J	ILM05.4	0.75	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	75-01-4	211	Vinyl chloride	0.23	UG/L	J	8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	107-06-2	76	1,2-Dichloroethane	0.11	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	78-87-5	82	1,2-Dichloropropane	0.31	UG/L	J	8260B	0.12	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	127-18-4	192	Tetrachloroethene	0.13	UG/L	J	8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	79-01-6	201	Trichloroethene	2.3	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	75-09-2	140	Methylene chloride	0.21	UG/L	B	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	91-20-3	148	Naphthalene	0.23	UG/L	B	8260B	0.15	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	75-34-3	75	1,1-Dichloroethane	7.8	UG/L		8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	75-35-4	77	1,1-Dichloroethene	0.072	UG/L	J	8260B	0.04	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	156-59-2	78	cis-1,2-Dichloroethene	21	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	156-60-5	79	trans-1,2-Dichloroethene	0.29	UG/L	J	8260B	0.05	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	7440-02-0	152	Nickel	3.3	UG/L	J	ILM05.4	1.9	40	40	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	7439-89-6	340	Iron	1860	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	108-88-3	196	Toluene	0.081	UG/L	B	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	7440-39-3	15	Barium	128	UG/L	J	ILM05.4	1.3	200	200	1	3/18/2010	3/31/2010	79
95-02	9502-MW3	75-00-3	41	Chloroethane	2.6	UG/L		8260B	0.2	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7440-48-4	53	Cobalt	9.3	UG/L	J	ILM05.4	0.98	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7440-62-2	209	Vanadium	19.5	UG/L	J	ILM05.4	0.75	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	75-09-2	140	Methylene chloride	0.047	UG/L	J	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	75-34-3	75	1,1-Dichloroethane	0.057	UG/L	J	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7440-47-3	51	Chromium	30	UG/L		ILM05.4	3.1	10	10	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7440-02-0	152	Nickel	14.1	UG/L	J	ILM05.4	1.9	40	40	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	71-55-6	200	1,1,1-Trichloroethane	0.1	UG/L	J	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7439-89-6	340	Iron	9620	UG/L		ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	108-88-3	196	Toluene	0.06	UG/L	B	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	7440-39-3	15	Barium	232	UG/L		ILM05.4	1.3	200	200	1	3/18/2010	3/31/2010	79
95-02	9502-MW8	67-64-1	3	Acetone	2.4	UG/L	B	8260B	0.44	2.5	2.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	7440-48-4	53	Cobalt	6.8	UG/L	J	ILM05.4	0.98	50	50	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	75-01-4	211	Vinyl chloride	1.9	UG/L		8260B	0.07	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	107-06-2	76	1,2-Dichloroethane	0.065	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	78-87-5	82	1,2-Dichloropropane	0.28	UG/L	J	8260B	0.12	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	127-18-4	192	Tetrachloroethene	0.36	UG/L	J	8260B	0.06	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	71-43-2	16	Benzene	3	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79

Closed Watauga County Landfill - March 17-18, 2010 Assessment Monitoring Event
Groundwater and Surface Water Monitoring Data that Equal or Exceed Reporting Limits

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	Q	METHOD	MDL	MRL	SWSL	DIL	COLLECT DATE	ANALYSIS DATE	NC LAB CERT. #
95-02	9502-MW9	79-01-6	201	Trichloroethene	1.2	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	75-09-2	140	Methylene chloride	0.47	UG/L	B	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	106-46-7	71	1,4-Dichlorobenzene	1.2	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	75-34-3	75	1,1-Dichloroethane	13	UG/L		8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	108-90-7	39	Chlorobenzene	0.41	UG/L	J	8260B	0.02	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	156-59-2	78	cis-1,2-Dichloroethene	8.2	UG/L		8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	156-60-5	79	trans-1,2-Dichloroethene	0.34	UG/L	J	8260B	0.05	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	7439-89-6	340	Iron	67.8	UG/L	J	ILM05.4	26	100	100	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	108-88-3	196	Toluene	0.1	UG/L	B	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	7440-39-3	15	Barium	604	UG/L		ILM05.4	1.3	200	200	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	75-71-8	74	Dichlorodifluoromethane	0.43	UG/L	J	8260B	0.03	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	75-00-3	41	Chloroethane	3.8	UG/L		8260B	0.2	0.5	0.5	1	3/18/2010	3/31/2010	79
95-02	9502-MW9	67-64-1	3	Acetone	0.98	UG/L	B	8260B	0.44	2.5	2.5	1	3/18/2010	3/31/2010	79
95-02	9502-RES15	127-18-4	192	Tetrachloroethene	0.2	ug/l	J	524.2	0.1	0.5	0.5	1	3/18/2010	3/25/2010	79
95-02	9502-RES16	127-18-4	192	Tetrachloroethene	0.1	ug/l	J	524.2	0.1	0.5	0.5	1	3/18/2010	3/25/2010	79
95-02	9502-RES16	156-59-2	78	cis-1,2-Dichloroethene	0.3	ug/l	J	524.2	0.1	0.5	0.5	1	3/18/2010	3/25/2010	79
95-02	9502-RES2	75-34-3	75	1,1-Dichloroethane	1	ug/l		524.2	0.1	0.5	0.5	1	3/18/2010	3/25/2010	79
95-02	9502-S2	71-43-2	16	Benzene	1.1	UG/L	J	SOM01.2	0.38	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S2	106-46-7	71	1,4-Dichlorobenzene	2.2	UG/L	J	SOM01.2	0.48	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S2	75-34-3	75	1,1-Dichloroethane	2	UG/L	J	SOM01.2	0.29	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S2	108-90-7	39	Chlorobenzene	0.58	UG/L	J	SOM01.2	0.33	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S2	156-59-2	78	cis-1,2-Dichloroethene	0.96	UG/L	J	SOM01.2	0.52	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S2	75-00-3	41	Chloroethane	16	UG/L		SOM01.2	0.88	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S4	79-01-6	201	Trichloroethene	0.52	UG/L	J	SOM01.2	0.42	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S4	75-09-2	140	Methylene chloride	2.2	UG/L	J	SOM01.2	1.15	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S4	75-34-3	75	1,1-Dichloroethane	1.4	UG/L	J	SOM01.2	0.29	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S4	156-59-2	78	cis-1,2-Dichloroethene	3.4	UG/L	J	SOM01.2	0.52	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S5	75-09-2	140	Methylene chloride	1.5	UG/L	J	SOM01.2	1.15	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S5	71-55-6	200	1,1,1-Trichloroethane	0.71	UG/L	J	SOM01.2	0.44	5	5	1	3/18/2010	3/24/2010	79
95-02	9502-S5	75-71-8	74	Dichlorodifluoromethane	0.43	UG/L	J	SOM01.2	0.41	5	5	1	3/18/2010	3/24/2010	79

Groundwater and Surface Water Assessment Monitoring Results Report March 17-18, 2010 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

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July 29, 2010

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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 2010 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 17-18, 2010 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 March 2010 event incorporated the core monitoring well subset. The September 2009 event incorporated the larger set of the core monitoring wells

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 observed in the area overlain 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 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 updated site conceptual model clearly demonstrated the reductions in extent and concentration of impact observed across the site. The natural attenuation demonstration is 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 constituent characteristics 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 higher order 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 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 2010 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 17-18, 2010 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 Table 2A, Table 2B, and Table 3. 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, constructed from data obtained on March 17, 2010 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 Table 2A, Table 2B, and Table 3.

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 constituent 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:

CORE WELLS	BOUNDARY WELLS
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 2009; the core well subset was sampled in March 2010.

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 at each the groundwater monitoring well. Semiannual sampling is currently conducted. The most recent semiannual monitoring event was conducted on March 17-18, 2010. The groundwater Assessment monitoring schedule is outlined in Table 1.

Monitoring Parameters

The analytical scans performed on monitoring well samples 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, 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 NC 2L groundwater standards. Subsequent to the January 1998 Assessment monitoring event NCDENR approved completing target metal analysis annually rather than semiannually. Metals were analyzed on the March 2010 event.

Past target organic parameter list revisions included 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 detections, 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 (i.e., GC Method 8021B) for each quarterly event. Metal analyses of all monitoring wells utilized CLP methods on all events. After 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

continued to follow a two-tiered analytical approach utilizing both EPA CLP-SOW analytical methods for surface water and LLRA screening by EPA-SW846 analytical methods between 1996 and 2006. The CLP-SOW were utilized to generate high-level quality data with documented QA/QC protocols. The LLRA methods (i.e., GC Method 8021B) were utilized for risk assessment screening to preliminarily identify low levels of parameters that may be present. In 2007, due to the availability to achieve low level concentrations via GC/MS Method 8260B, employing a 25 ml purge, the assessment monitoring program began using LLRA analytical methods for groundwater organic analyses each semiannual event. EPA CLP-SOW analytical methods continued to be used for surface water on 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 2010 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.

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. The analyzing laboratory prepared organic sample containers with hydrochloric acid (HCl) prior to sample collection. When collected, total metal samples are preserved in the field using nitric acid supplied by the analyzing laboratory. All samples were placed on ice in a cooler at approximately $4^{o}C$ 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 summery 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 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 SOMO1.2.

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

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 CLP 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 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. The original certificate of analysis was received April 13, 2010.

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 were received at less than 6°C. As per SW-846 and 40 CFR Part 136, no data qualification was required due to the sample receipt temperature.

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. Deviations from specific QA/QC criteria that were identified during the data review process are summarized below.

Chloroethane was detected above the CRQL in sample S-2. Several target analytes were detected below the CRQL in samples S-2, S-4 and S-5. No other target analytes were detected in any sample. Except where noted above, results remain as reported by the laboratory.

SW-846 Volatile Organic Data Review

Draper Aden Associates performed a limited review of the SW-846 analytical results for 62 volatile organic analytes by USEPA SW-846 Method 8260B/5030B using a 25 ml purge volume.

CompuChem performed the SW-846 Method 8260B/5030B 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 results. The laboratory revised the deliverables package to include the method detection limit study.

The evaluation of CompuChem's compliance with Method 8260B/5030B 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, surrogate spike, MS/MSD, 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 criteria were met. Preservation criteria were met, except the samples were received in the laboratory at 0.4°C. The samples were not frozen and were received at less than 6°C as per SW-846 and 40 CFR and no data qualification was required.

The original certificate of analysis for Method 8260B was received on April 13, 2010. The final certificate of analysis was complete and no data was rejected. The data set demonstrated the laboratory's ability to achieve the reported LOQ, as supported by the initial calibration data and laboratory 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. Acrolein was not detected in any sample and the LOQ for acrolein was qualified as estimated for all sample results.

Continuing calibration verification criteria were met except for dichlorodifluoromethane, acrolein and bromomethane which exceeded the continuing calibration verification percent drift/difference (%D) requirements (<±25%D). Where acrolein, bromomethane and dichlorodifluoromethane were not detected at or above the detection limit or LOQ, the LOQs for these three target analytes were qualified as estimated, "J" to note that the LOQ was estimated due to this QC deficiency (see data validation report). For dichlorodifluoromethane detected below the LOQ in MW-9, MW-12 and MW-17, the result remains qualified as estimated. The remaining calibration requirements were met.

Acetone and toluene were reported in the trip blank. Acetone, methylene chloride, toluene and naphthalene were reported in the laboratory method blanks. Detected results less than the LOQ or less than five times the blank contamination concentration for these four analytes were attributed to the laboratory contamination and validated as "U" (see data validation summary).

Bromomethane recovered low in the LCS (62%) and MS (65%). Bromomethane was not detected at or above the detection limit or LOQ. Results for bromomethane were qualified as estimated, "UJ" to note that bromomethane was not detected in any sample and the LOQ was estimated due to this QC deficiency (see data validation report). Vinyl chloride recovered high in the LCS (149 %) and MSD (156%) and detected results for vinyl chloride greater than the detection limit (DL) were considered biased high and qualified as estimated, "J" (see data validation report).

Samples MW-2 and MW-12 required dilution 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). Both the undiluted and diluted results were reported by the laboratory.

The accuracy of the laboratory computer generated result was verified for 10% of the data.

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 method detection limit or 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 ILM05.4. 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 April 13, 2010. 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 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 MS and sample duplicate, LCS 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.

The MS recovered low in sample MW-3 for iron (47%). A post-digestion spike was not performed on sample MW-3. The relative percent difference (RPD) between the sample and duplicate for MW-3 was greater than 20% (21%) and all iron results were considered estimated and qualified as "J" to note this QC deficiency.

The % difference (%D) between the sample and serial dilution results were greater than 10% for barium and iron and all result for barium and iron were qualified as estimated and qualified as "J" to note this QC deficiency.

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."

5.0 DISCUSSION OF RESULTS

Tables 2A through 2C (Appendix A) provide a summary of the target analytical results obtained from the March 2010 sampling event. A review of historical concentrations listed in Tables 5A through 5C 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. A comparison of target parameter concentrations provided in Table 2A and Table 2C with the historical concentrations listed in Tables 5A through 5C indicate concentration decreases continue.

Draper Aden Associates validated the results according to the discussion provided in Sections 3.0 and 4.0 of this report. Tables 2A through 2C 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 2010 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 of 0.5 µg/l at one well (MW-9) at a concentration of 3.0 µg/l, above the NC 2L standard of 1 µg/l, and detected below the LOQ at one well (MW-12) at an estimated concentration below the NC 2L standard. Note that benzene concentrations, historically detected above the EPA MCL of 5 µg/l at MW-8 only, have been below the EPA MCL since 1997. In fact, benzene has not been detected at MW-8 since 2001.

Benzene was detected below the LOQ of 5.0 µg/l at one surface water location (S-2), estimated at 1.1J µg/l, considerably below the NC 2B surface water standard of 51 µg/l.

1,4-Dichlorobenzene. 1.4-Dichlorobenzene was detected above the LOQ of 0.5 µg/l at two wells (MW-9 and MW-12) at concentrations (1.2 µg/l and 1.5 µg/l, respectively) below the NC 2L standard of 6 µg/l or EPA MCL of 100 µg/l.

1,4-Dichlorobenzene was detected below the LOQ of 5.0 µg/l at one surface water location (S-2), estimated at 2.2J µg/l, considerably below the NC 2B surface water standard of 190 µg/l.

Chloroethane. The daughter product chloroethane was detected above the LOQ of 0.5 ug/l at three wells (MW-3, MW-9, and MW-12). All concentrations were less than 7 ug/l, several orders of magnitude below the NC 2L groundwater standard of 3000 µg/l. No EPA MCL has been established for chloroethane.

Chloroethane was detected above the LOQ of 5.0 µg/l at one surface water location (S-2), estimated at 16.0 µg/l, considerably below the NC 2B surface water standard of 550 µg/l.

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 of 0.5 µg/l at five wells (MW-2, MW-3, MW-9, MW-12, and MW-17) and detected below the LOQ at the remaining core subset well (MW-8). 1,1-DCA concentrations were above the recently revised NC 2L groundwater standard of 6 µg/l at four wells (MW-2, MW-3, MW-9, and MW-12). No EPA MCL has been established for 1,1-DCA.

1,1-DCA was detected below the LOQ of 5.0 µg/l at two surface water locations (S-2 and S-4) at estimated concentrations below the NC 2B surface water standard of 170,000 µg/l.

1,1-Dichloroethene (1,1-DCE). 1,1-DCE was detected above the LOQ of 0.5 µg/l at one well (MW-2) and below the LOQ at two wells (MW-3 and MW-12). The 1,1-DCE concentration at MW-2 was 89 µg/l, which exceeds the EPA MCL and NC 2L groundwater standard of 7 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 and 2009. In general, review of historical data indicate that 1,1-DCE concentrations are decreasing (Tables 5A, 5B, and 5C).

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 of 0.5 µg/l at four wells (MW-3, MW-9, MW-12, and MW-17) and detected below the LOQ at one well (MW-2). 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 these standards.

Cis-1,2-DCE was detected below the LOQ at two surface water locations (S-2 and S-4, at estimated concentrations of 1.0J µg/l and 3.4J µg/l, respectively) considerably below the NC 2B surface water standard of 4,900 µg/l.

Tetrachloroethene (PCE). PCE was detected above the LOQ of 0.5 µg/l at three wells (MW-2, MW-12, and MW-17) and detected below the LOQ at two wells (MW-3 and MW-9).

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 MW-2, MW-12, and MW-17.

Note that PCE concentrations, historically detected above the EPA MCL, have decreased to levels below the EPA MCL (Tables 5A, 5B, and 5C).

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

Trichloroethene (TCE). TCE was detected above the LOQ of 0.5 µg/l at four wells (MW-2, MW-3, MW-9, and MW-12) and concentrations were estimated below the LOQ at one well (MW-17). Although no concentrations were above the EPA MCL of 5 µg/l, concentrations were above the NC 2L groundwater standard of 3 µg/l at one well (MW-12 at 3.9 µg/l).

TCE was detected below the LOQ of 5.0 µg/l at one surface water location (S-4), estimated at 0.5J µg/l, considerably below the NC 2B surface water standard of 30 µg/l.

1,1,1-Trichloroethane (1,1,1-TCA). 1,1,1-TCA was detected above the LOQ of 0.5 µg/l at one well (MW-2) and detected below the LOQ at two wells (MW-8 and MW-12). The 1,1,1-TCA concentration at MW-2, at 470 µg/l, was above the EPA MCL and NC 2L groundwater standard of 200 µg/l. After steadily decreasing to levels below the EPA MCL and NC 2L groundwater standard at MW-2 between 1994 and 2002, 1,1,1-TCA concentrations at MW-2 have fluctuated considerably, increasing between 2002 and 2005, decreasing in 2006 and April 2007, increasing again in September 2007 and March 2008, decreasing again in September 2008 and March 2009, then increasing again in September 2009 and March 2010 (Tables 5A, 5B, and 5C).

1,1,1-TCA was detected below the LOQ of 5.0 µg/l at one surface water location (S-5), estimated at 0.7J µg/l, considerably below the NC 2B surface water standard of 2500 µg/l.

Vinyl Chloride. Vinyl chloride was detected above the LOQ of 0.5 µg/l at three wells (MW-2, MW-9, and MW-12), and detected below the LOQ at one well (MW-3). No concentrations were above the EPA MCL of 2 µg/l, but all concentrations were above the lower NC 2L groundwater standard of 0.03 µg/l.

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

Chlorobenzene, Dichlorodifluoromethane, 1,2-Dichloroethane, trans-1,2-Dichloroethene, 1,2-Dichloropropane, and Methylene Chloride. All of the remaining six target parameters, as identified above, except methylene chloride, were only detected in wells samples at low concentrations below 1.0 µg/l in March 2010. Chlorobenzene, dichlorodifluoromethane, and methylene chloride were also detected below the LOQ of 5.0 µg/l in surface water samples. Chlorobenzene and dichlorodifluoromethane were detected at one surface water locations S-2 and S-5, respectively. Surface water concentrations for chlorobenzene and dichlorodifluoromethane were estimated below 1.0 µg/l. Methylene chloride, which was not

detected in any groundwater samples, was detected at two surface water locations (S-4 and S-5, at estimated concentrations of 2.2J µg/l and 1.5J µg/l), considerably below the NC 2B surface water standard of 590 µg/l. Methylene chloride was not detected in any of the well samples.

Chlorobenzene detected below the LOQ of 0.5 µg/l at MW-9 and MW-12. Dichlorodifluoromethane detected below the LOQ of 0.5 µg/l at MW-9, MW-12, and MW-17. 1,2-Dichloroethane, trans-1,2-dichloroethene, and 1,2-dichloropropane were detected below 1.0 µg/l at MW-3, MW-9, and MW-12.

All concentrations, except the concentration for 1,2-dichloropropane at MW-12, were below respective NC 2L groundwater standards and EPA MCLs. The 1,2-dichloropropane concentration at MW-12, at 0.8 µg/l, although below the EPA MCL of 5 µg/l, is 0.2 µg/l above the NC 2L groundwater standards of 0.6 µg/l. Note that no EPA MCL has been established for dichlorodifluoromethane or 1,2-dichloroethane.

Non-Target Organic Parameters

Three non-target parameters, chloroform, 1,2-dichlorobenzene, and 1,1,2-trichloroethane, were detected at low, estimated concentrations below the LOQ of 0.5 µg/l, and considerably below NC 2L groundwater standards (Table 3). Chloroform was detected at MW-2, MW-12, and MW-17, 1,2-dichlorobenzene was detected at MW-12, and 1,1,2-trichloroethane was detected at MW-2.

Target Inorganic Parameters

The analytical results for the six target metal parameters, barium, chromium, cobalt, iron, nickel, and vanadium, obtained from the March 2010 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 on 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). Note that iron concentrations have generally declined with each successive inorganic monitoring event.

Chromium. Chromium was detected at MW-8 at concentrations below the EPA MCL of 100 µg/l, but above the NC 2L standard of 10 µg/l.

Cobalt, Nickel, and Vanadium. Cobalt, nickel, and vanadium were detected at trace, estimated levels below the analytical quantitation limit. Cobalt was detected at MW-8, and nickel and vanadium were detected at MW-2, MW-3, MW-8, MW-12, and MW-17.

5.2 Potable Well Sampling Results

The initial domestic and commercial-use potable well sampling program 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 2009 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 in September 2008, and no landfill related constituents were detected. Ten private 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 requested that the County no longer include the residence at 142 Green Briar Lane in subsequent 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 2010 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 (Appendix D) 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 2010 are discussed below.

March 2010 Sampling

Draper Aden Associates sampled the following two business wells (one no longer in-use) and four residential wells (two potable use and two non-potable use) on March 18, 2010.

- 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

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 located at 2239 Hwy 421 S (well reference no. 1) and 230 Cabbage Row (well reference no.6) (Appendix D).

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 Hwy 421 S 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.

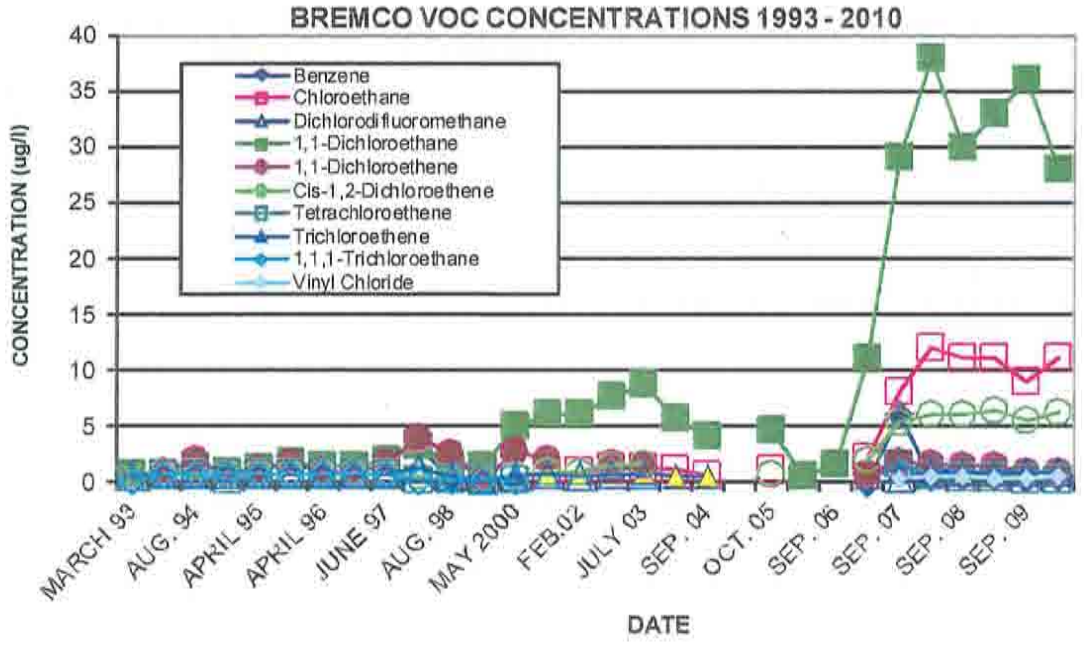
The wells at 2711 Hwy 421 S (well reference no. 15) and 2737 Hwy 421 S (well reference no. 16) have been sampled semiannually since August 2001, after the detection of tetrachloroethene at both wells at less than 1.0 µg/l in February 2001. Tetrachloroethene was also detected at both wells in March 2010 (estimated at 0.2 J µg/l at 2737 Hwy 421 S. and estimated at 0.1 J µg/l at 2711 Hwy 421 S). Cis-1,2-dichloroethene was also detected at 2711 Hwy 421 S in March 2010, estimated at a concentration of 0.3 J µg/l.

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. Five organic constituents were detected on each semiannual event in 2007, 2008, and September 2009 (chloroethane, 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-DCE, and dichlorodifluoromethane). Four of these five constituents were detected in March 2009 (excluding 1,1-DCE). Only 1,1-DCA was detected in March 2010 (at 1.0 µg/l), below the applicable NC 2L groundwater standard of 6 µg/l.

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 325 ft interval discussed above. After six 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 detected at the BREMCO well are less than 3 µg/l for most of the detected constituents. Only 1,1-DCA, chloroethane, and cis-1,2-DCE concentrations range higher. In March 2010, seven organic constituents were detected at or above the analytical quantitation limit (0.5 µg/l). 1,1-DCA was detected at 28 µg/l; chloroethane and cis-1,2-DCE were detected at 11 µg/l and 6.2 µg/l, respectively. 1,1-DCE and methylene chloride were detected at 1.4 µg/l and 1.5 µg/l, respectively; dichlorodifluoromethane was detected at 0.9 µg/l; and 1.4-dichlorobenzene was detected at 2.3 µg/l. Eight other organic constituents were detected at less than 0.5 µg/l (benzene, chlorobenzene, 1,2-dichloroethane, 1,2-dichloropropane, sec-butylbenzene, tetrachloroethene, trans-1,2-DCE, and vinyl chloride). All concentrations were below applicable EPA MCL drinking water standards, and all concentrations, except the 1,1-DCA concentration and estimated vinyl chloride concentration, were below applicable NC 2L groundwater standards. The NC 2L for vinyl chloride, at 0.03 ug/l, is considerably below the analytical detection limit; therefore, any detection is above the standard.

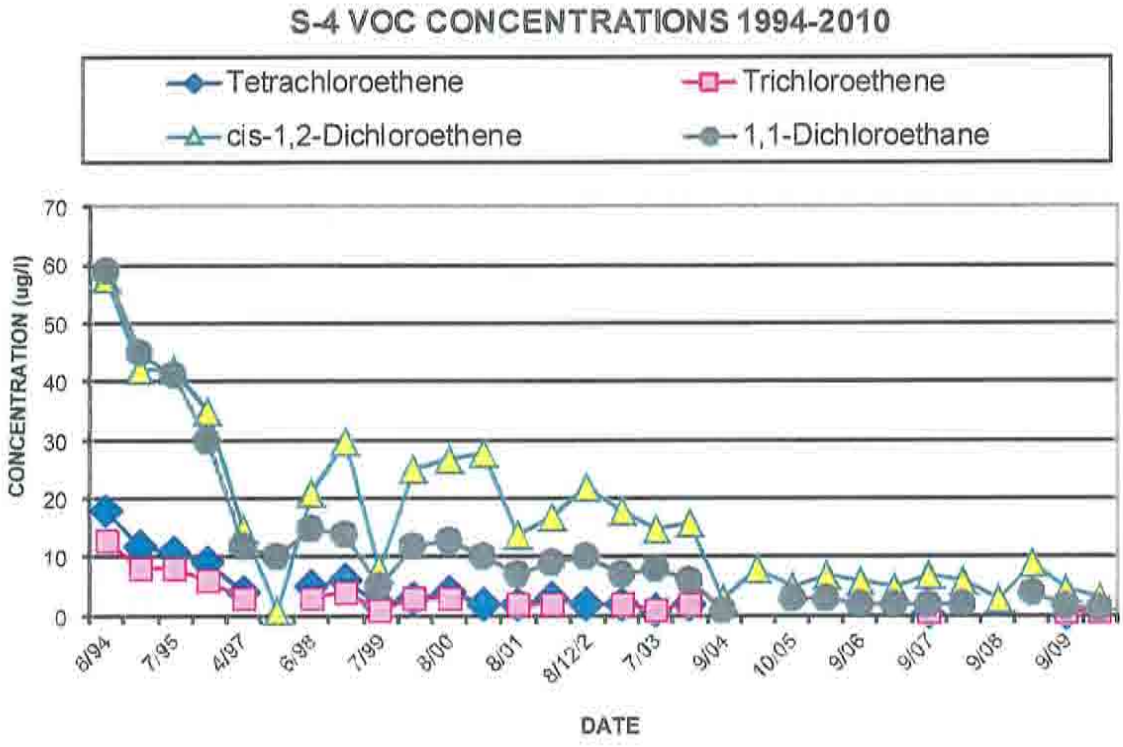


5.3 Distribution Trend Evaluation

Monitoring results indicate significant reductions in the extent and concentration of impact to groundwater 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.

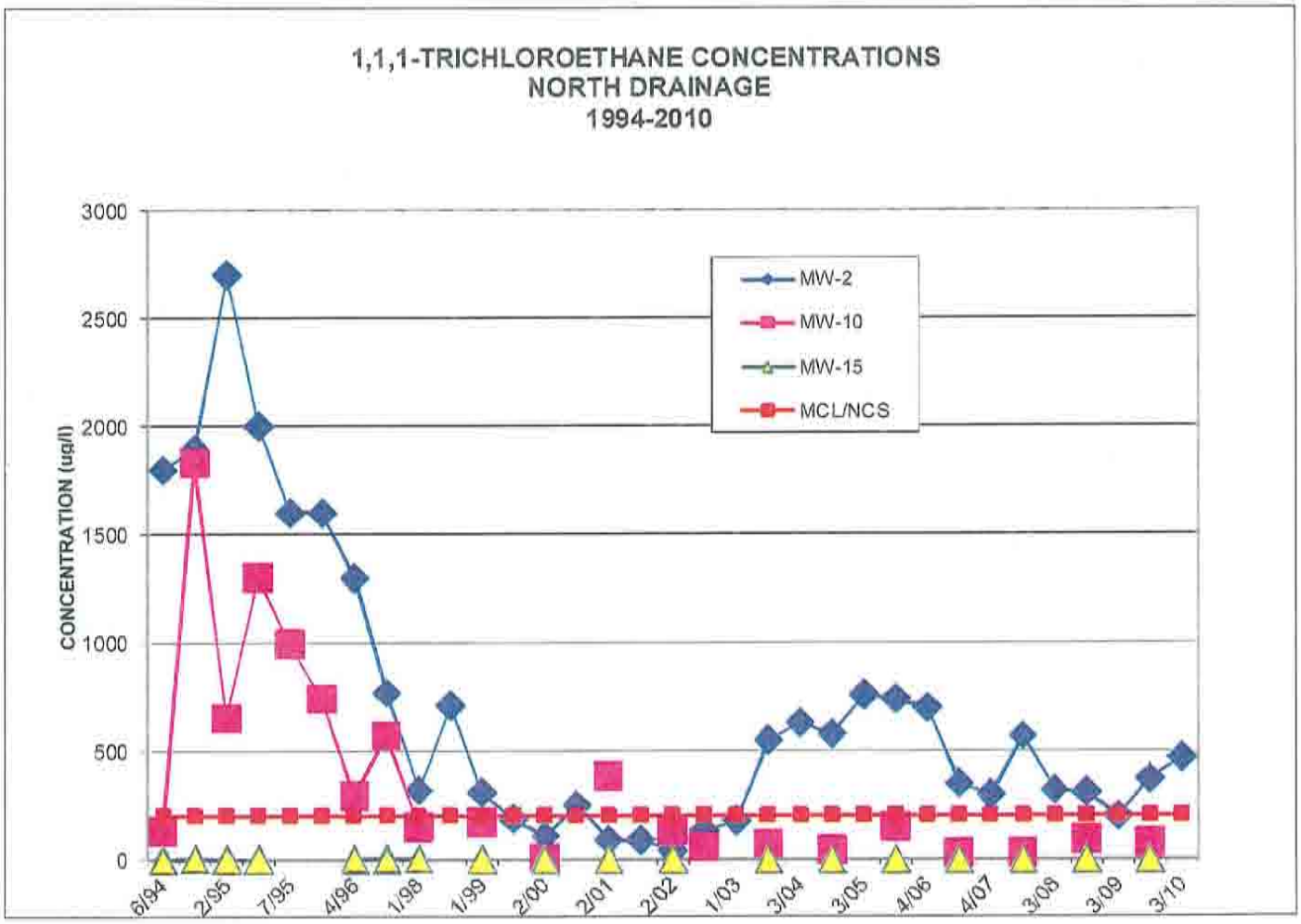
West Drainage - In March 2010, all sixteen target constituents were detected in the west drainage. Vinyl chloride and 1,1-DCA were detected above the respective NC 2L standards of 0.03 µg/l and 6 µg/l at MW-2, MW-3, MW-9, MW-12, and MW-17. PCE was detected above the NC 2L standard of 0.7 µg/l at MW-3, MW-12, and MW-17, and TCE was detected above the NC 2L standard of 3 µg/l at MW-12. No constituents exceeded respective EPA MCLs.

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). These same four constituents were detected at S-4 in March 2010. 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.

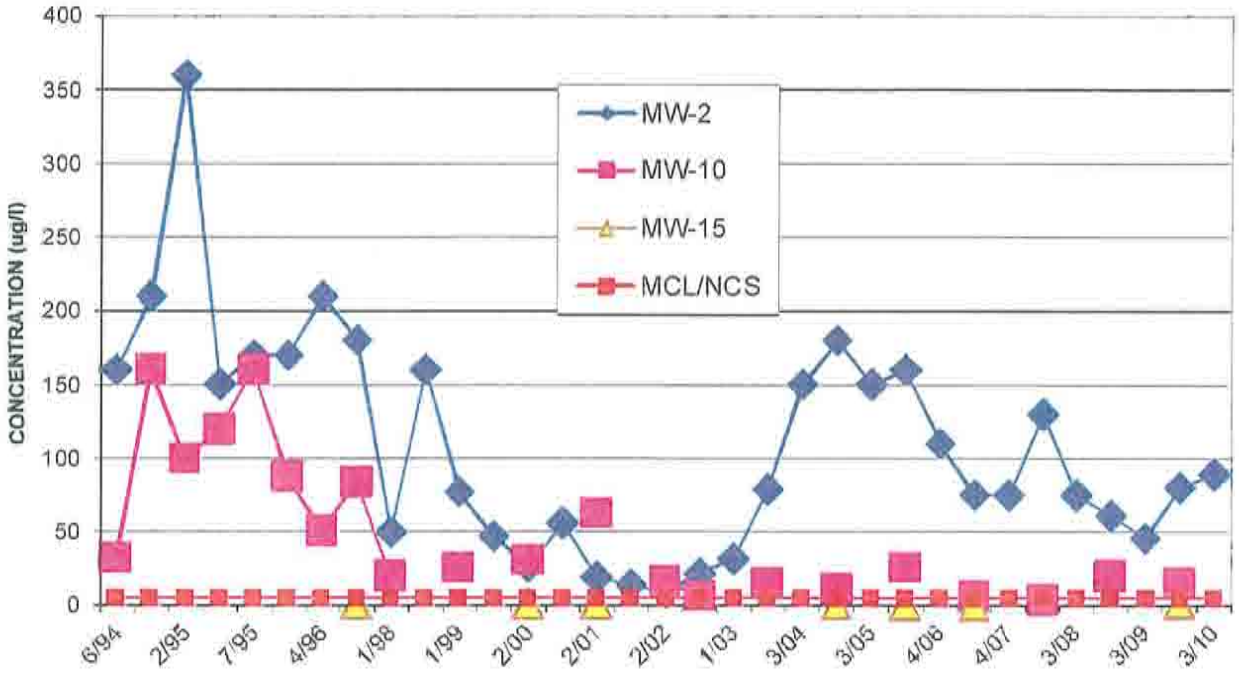


North Drainage - In the north drainage, the detection of organic constituents is confined to the bedrock aquifer. Historically, a total of four organic constituents (1,1-DCA, 1,1-DCE, 1,1,1-TCA and PCE) are typically detected in the north drainage at bedrock wells MW-2 and MW-10. These same four constituents, as well as TCE and vinyl chloride, were detected above the LOQ at MW-2 in March 2010. TCE and vinyl chloride were only marginally above the LOQ, at 0.5 µg/l and 0.6 µg/l, respectively.

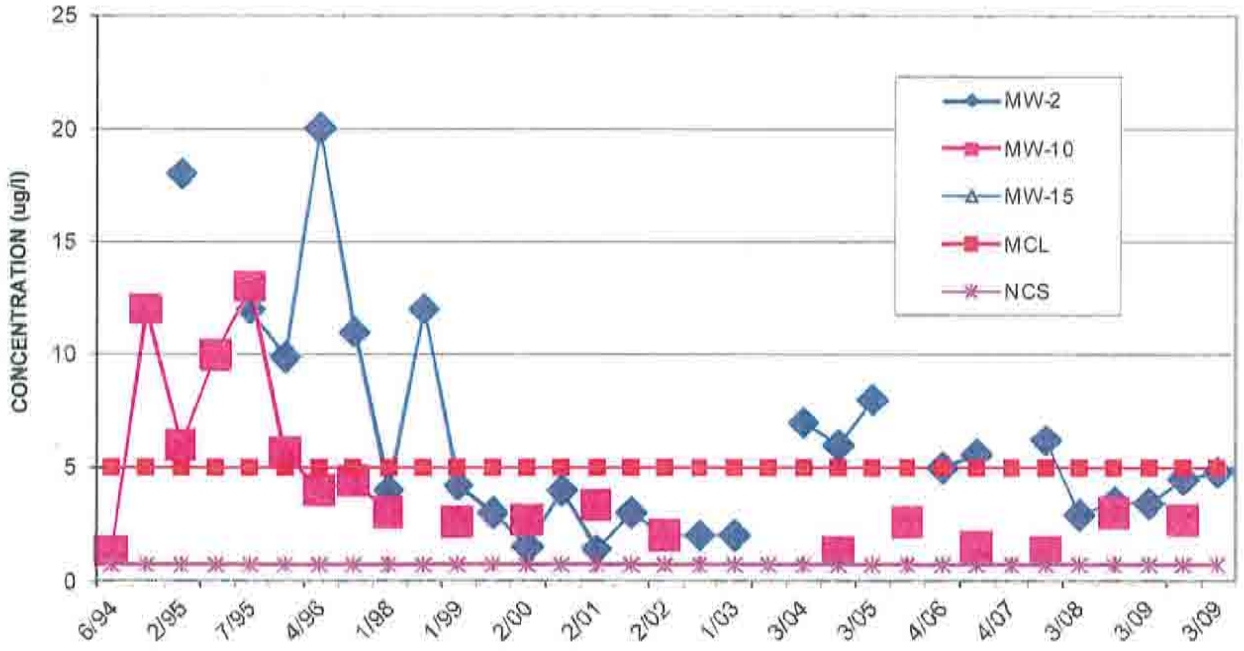
Elevated concentrations of 1,1-DCE and 1,1,1-TCA historically observed at MW-2 indicate preferential migration to deeper fracture zones within the bedrock in the north drainage. The concentration of three constituents, 1,1-DCE, 1,1,1-TCA and PCE, historically exceeded their respective EPA MCLs at both 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 detected at concentrations above the EPA MCL at MW-2 on several events between 2004 and 2007.



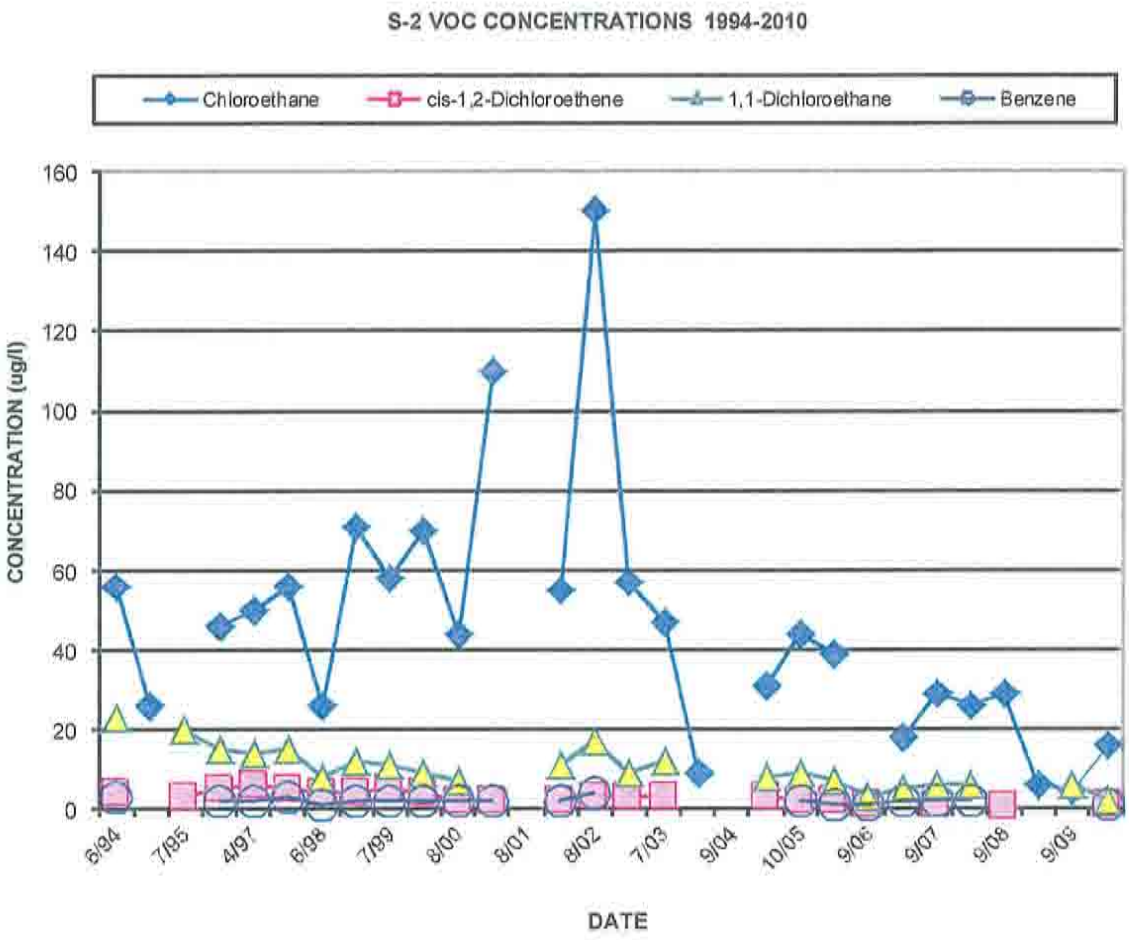
1,1-DICHLOROETHENE CONCENTRATIONS
NORTH DRAINAGE
1994-2010



TETRACHLOROETHENE CONCENTRATIONS
NORTH DRAINAGE
1994-2010



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



In addition to the four constituents presented above, chlorobenzene and 1,4-dichlorobenzene were also detected at S-2 in March 2010, although at estimated concentrations below the LOQ of 5 µg/l. All concentrations are both currently and historically below NC surface water quality standards.

No organic parameters are typically detected at S-3, located approximately 600 feet downstream from S-2.

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. 1,1,1-TCA was estimated at a concentration of 0.43J µg/l at MW-15 in September 2009. MW-15 was not monitored in March 2010.

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.

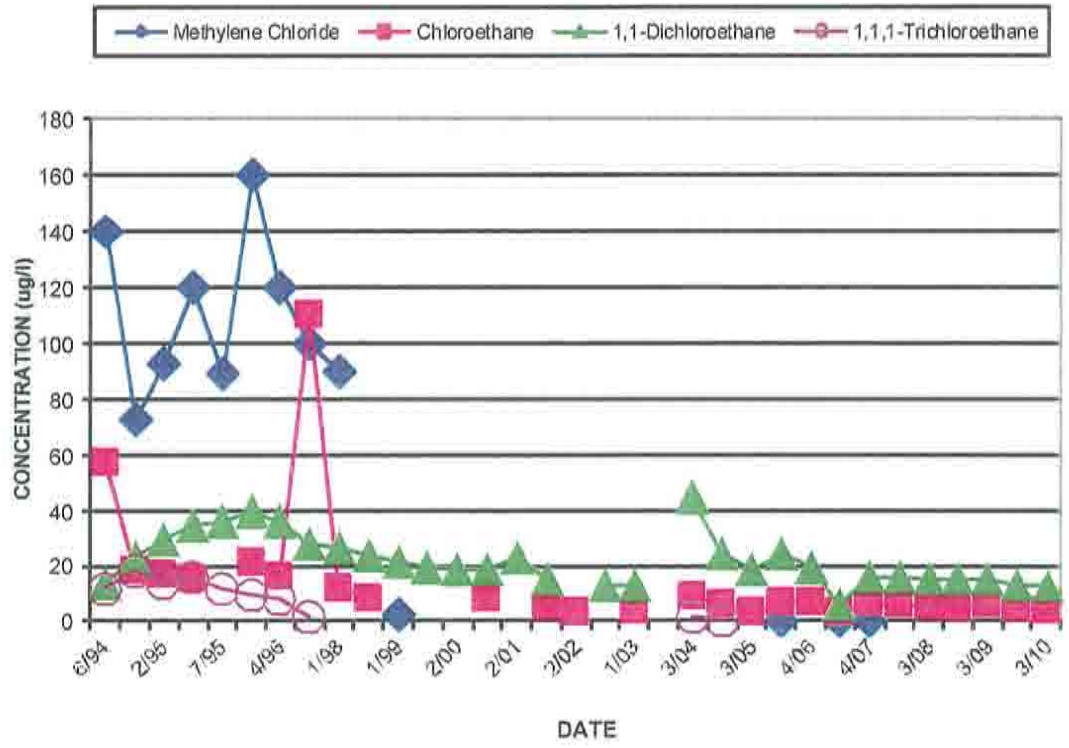
Trace levels of the same organic constituents detected in both the Carroll well and the landfill monitoring well network were also previously detected in several other potable wells located south of the saddle. The frequency of detection of these trace levels declined significantly between 1993 and 1999.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

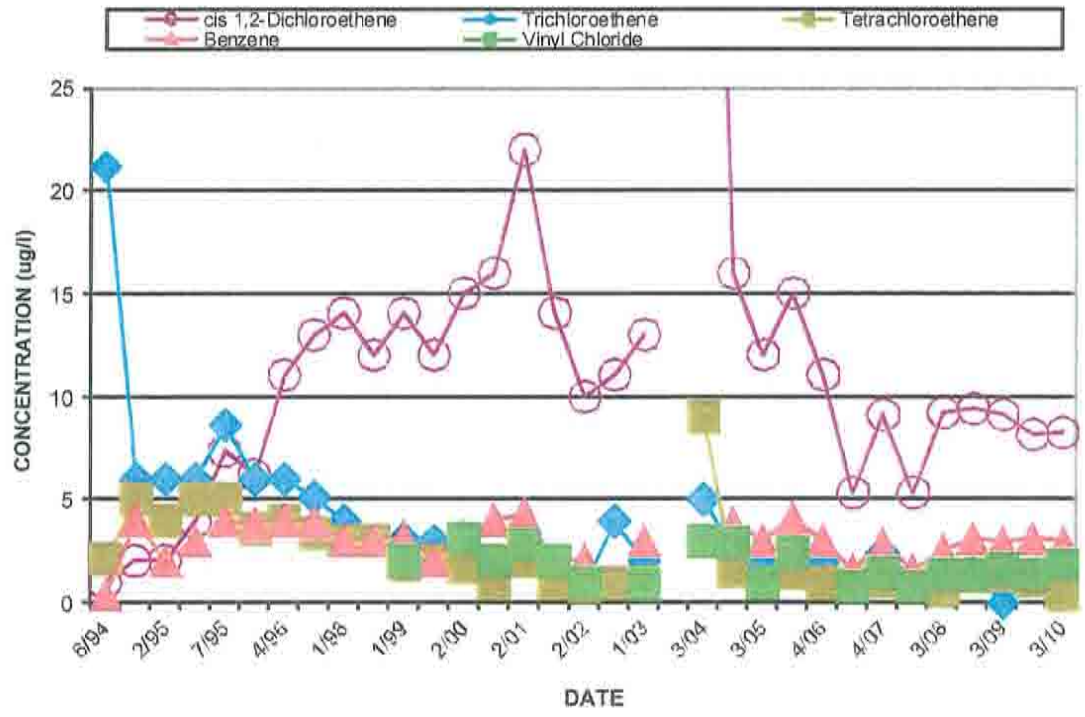
Eighteen residential wells located south of the southern saddle sampled in September 2008, and ten residential wells, located just outside the area current served by public water, were sampled in March 2005. As discussed further below, although a suspected laboratory contaminant (methylene chloride) was detected at one well (well ref. no. 21) at an estimated concentration equal to the detection limit of 0.5 µg/l in March 2005, 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 was last detected above the NC 2L groundwater standard of 0.7 µg/l in September 2004.

In March 2010, two constituents (1,1-DCA and vinyl chloride) were above the NC 2L standard.

MW-9 VOC CONCENTRATIONS 1994-2010





5.4 MNA Implementation

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

The performance monitoring network at Watauga County Landfill is designed to support MNA as the remedial response. The performance monitoring network 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.

MNA performance monitoring evaluates the following aspects:

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

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.

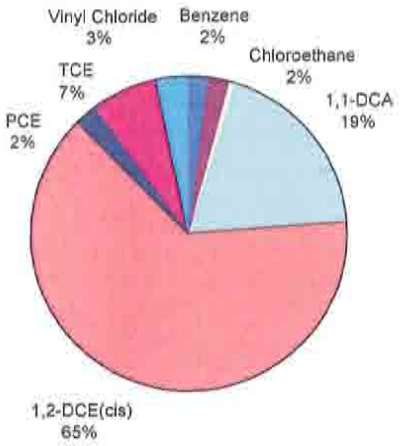
5.5 Relative Concentration Trend Evaluation

The comparisons of relative concentrations over time demonstrate the role of reductive reactions in the natural attenuation processes that are 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-DCEmay 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.

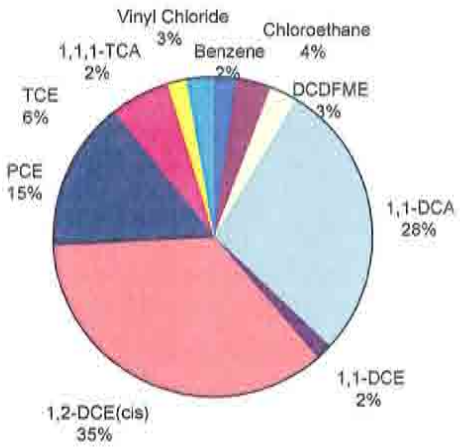
The following presentation of relative concentration pie charts was adapted from the SCR Update, dated January 2000. The pie charts illustrate the shift from parent to daughter products, as well as the shift from ethenes to ethanes, that has occurred in the west drainage since 1995.

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.

MW-6 (1995)

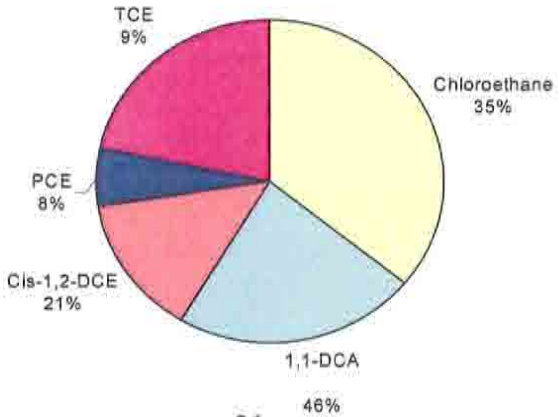


MW-8 (1995)



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 through 2010.

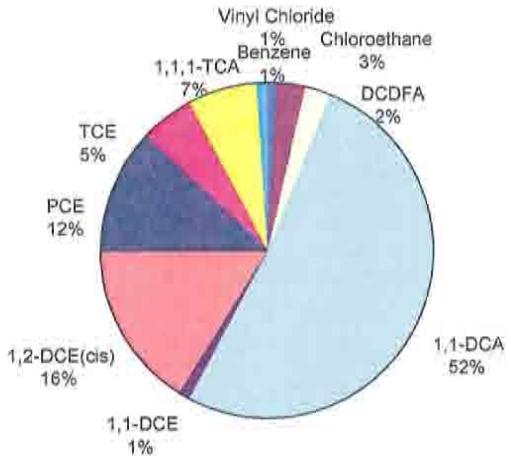
MW-8
SEPTEMBER 2007



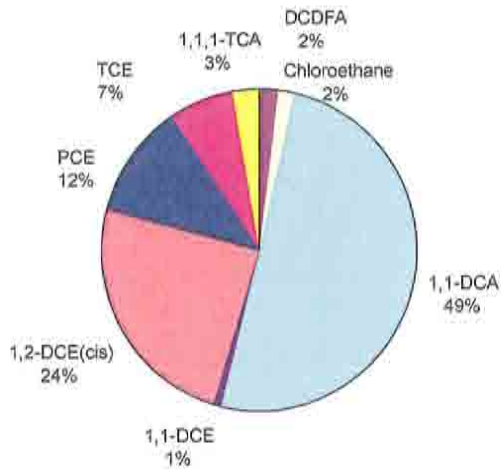
Significant decreases in the total number of organic detections, and concentrations, have also occurred across the site, as illustrated in the graphs in Section 5.6. In fact, only two organic constituent were detected at MW-8 in March 2010, both estimated at 0.1J µg/l.

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.

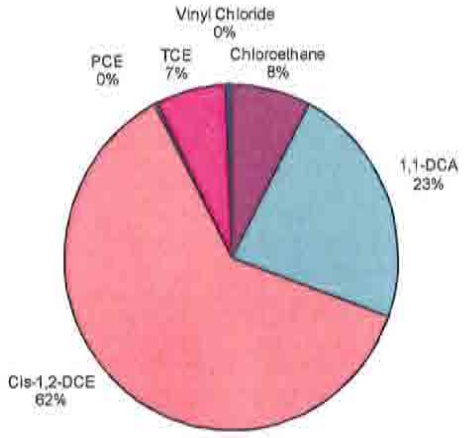
MW-3 (1995)



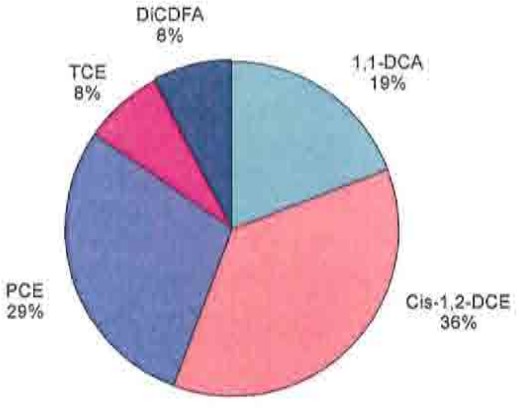
MW-17 (1995)



As shown below by the relative concentration pie charts for MW-3 and MW-17 in March 2010, a shift in relative concentrations from 1,1-DCA to cis-1,2-DCE has occurred since 1995.



MW-3
MARCH 2010



MW-17
MARCH 2010

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.

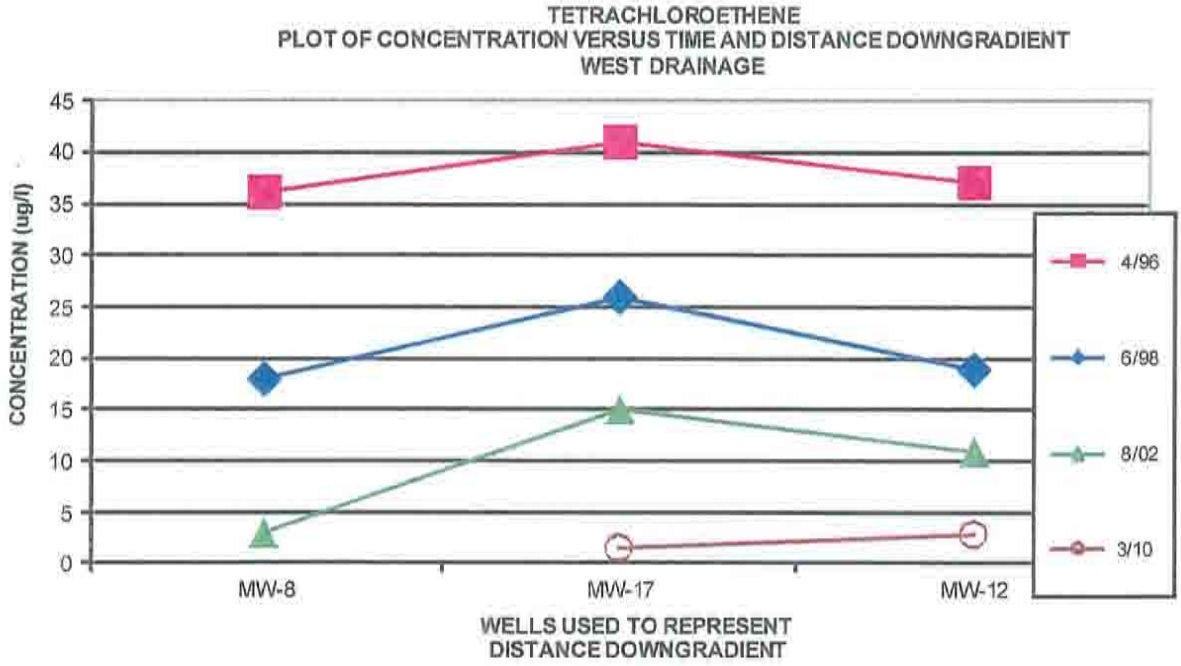
5.6 Site Conceptual Model Refinement

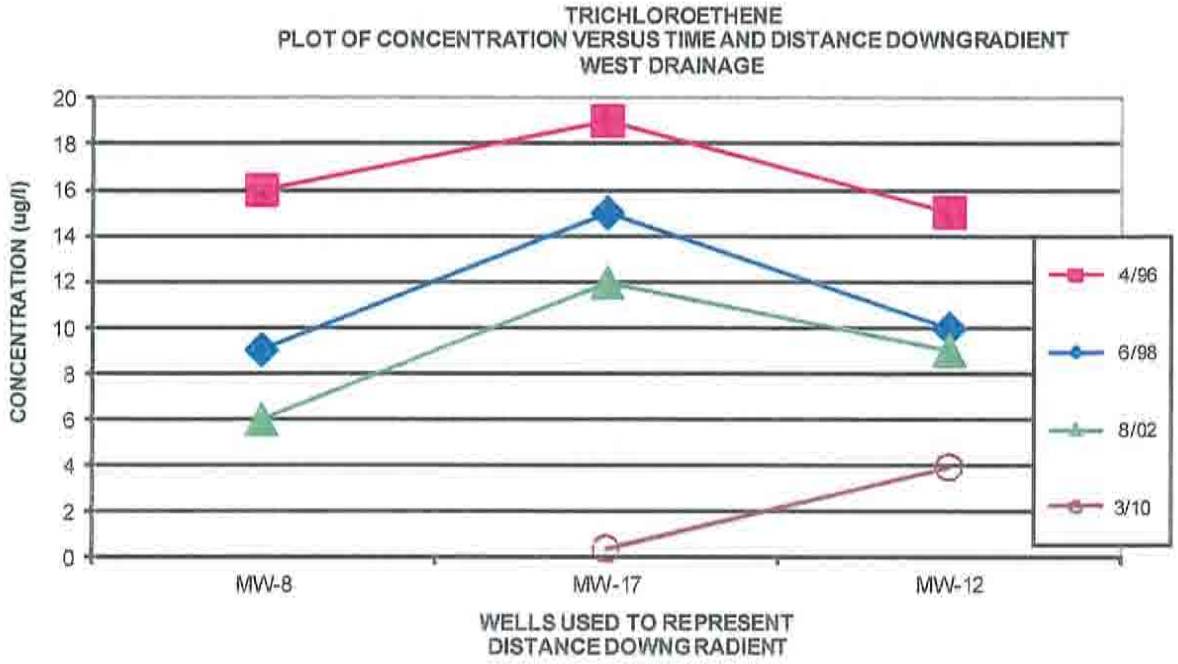
MNA guidance recommends that parent and daughter product contour maps and cross-sections be prepared to allow interpretation of the data and the distribution and relative transport and degradation rates of constituents in the subsurface. Site Conceptual Model Updates provided in 2000 and 2002, presented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

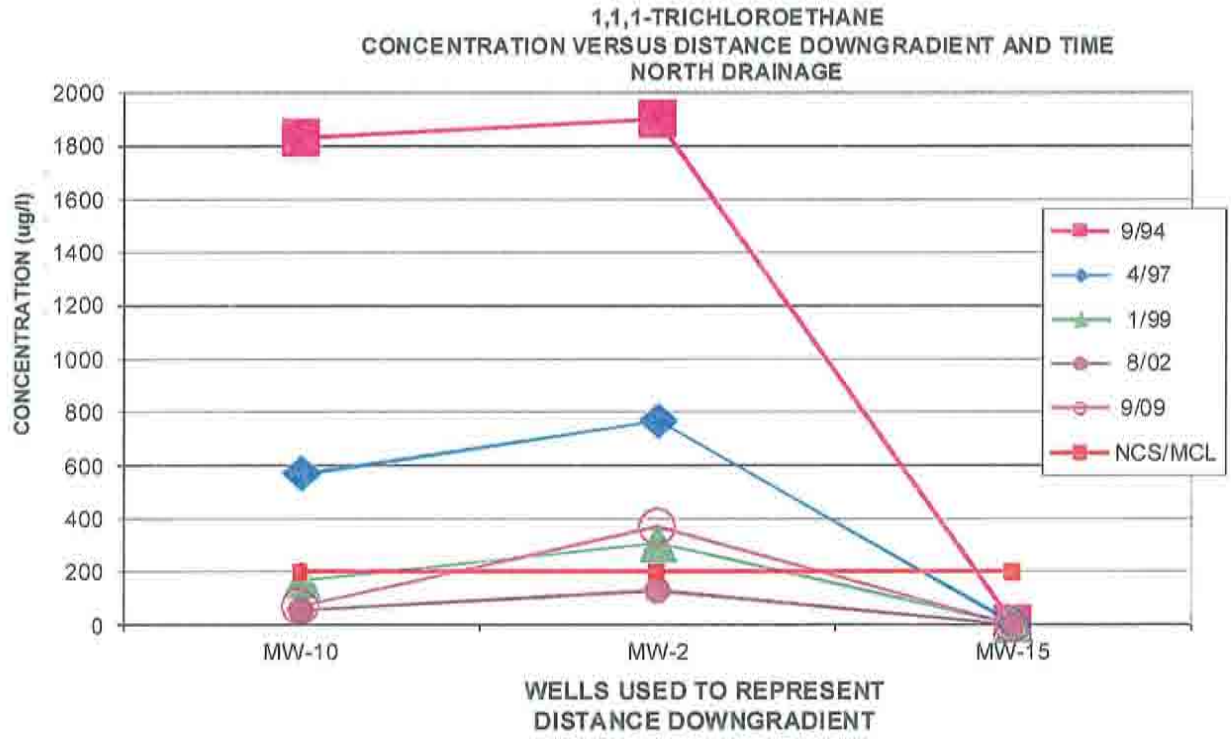
Graphical tests for evaluating plume stability and behavior are avalable for evaluating the performance of natural attenuation (US AFCEE, 2000). These graphical tests are most successful at demonstrating that natural attenuation is occurring at a site when the historical data are shown to display significant 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.

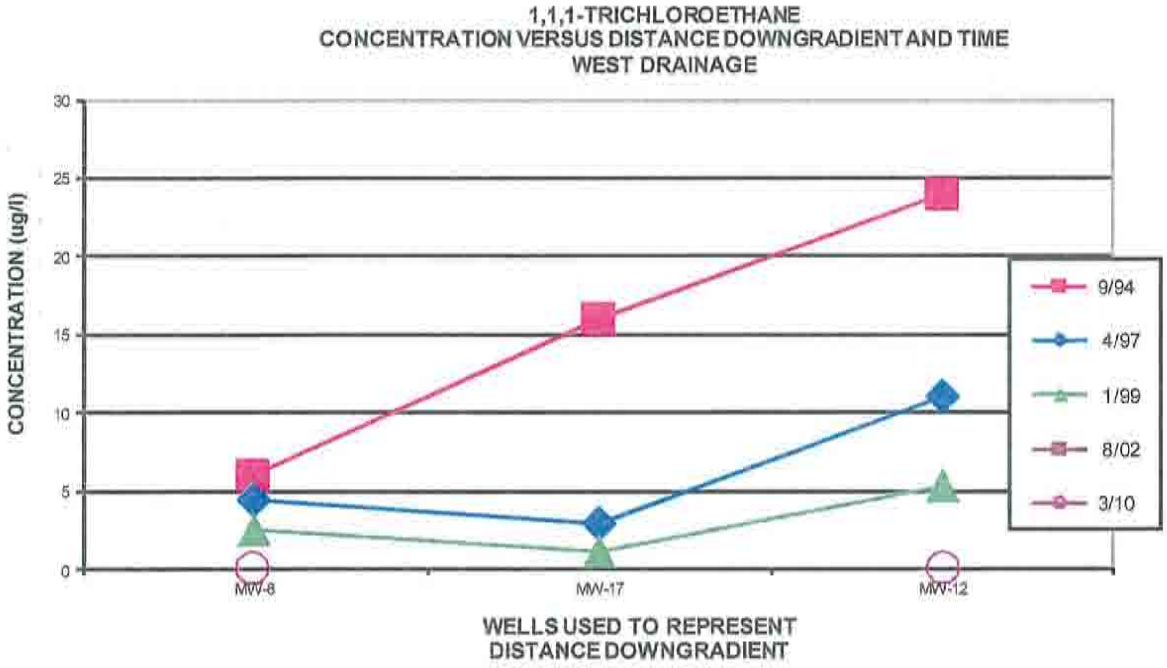
Note that the historical data for the parent constituents PCE and TCE are shown to display a significant loss of constituent mass over time in the west drainage.



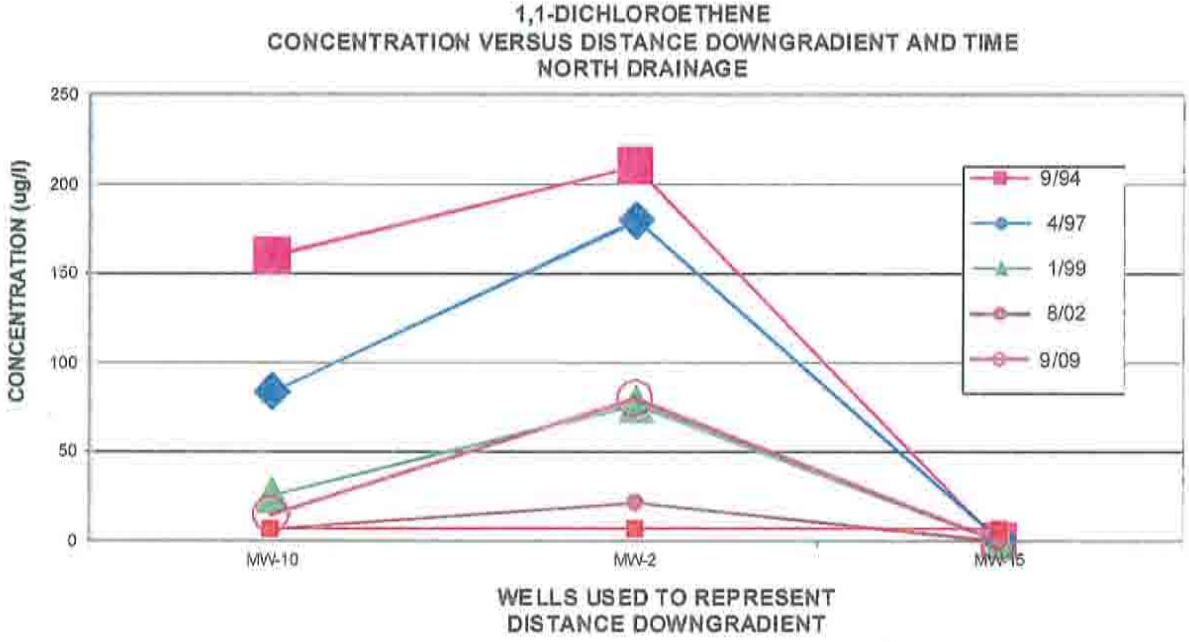


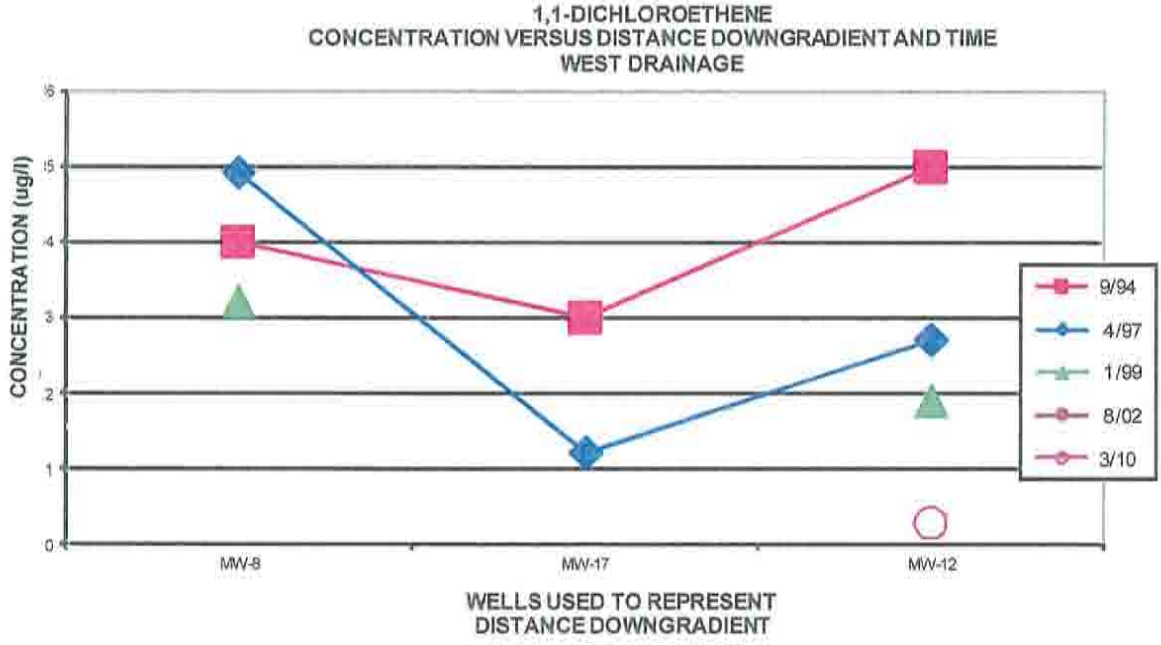
Plots of constituent concentrations versus distance downgradient are provided below for the parent constituent 1,1,1-TCA along the north and west drainage.





While historical data for 1,1,1-TCA and 1,1-DCE are shown to display a notable loss of constituent mass over time in the west drainage, in the north drainage, although a loss of constituent mass over time is observed between 1994 and 2002, the data reverses trend between 2002 and 2009.





Similar to 1,1,1-TCA concentration trends, although 1,1-DCE historical data are shown to display a notable loss of constituent mass over time in the west drainage, recent data reverses trend in the north drainage.

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 do not appear to represent a permanent trend reversal. 1,1-DCE concentrations decreased in the north drainage in 2005 and subsequent years, and lower concentrations were again observed at the southern saddle in 2005 and subsequent years. 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 September 2010. The monitoring event will be conducted in accordance with the following monitoring program schedule:

- Semiannual monitoring of the core monitoring well subset,
- Annual analysis for target metals,
- 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 groundwater concentrations above North Carolina Groundwater Quality Standards at the facility property boundary, 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 of solid waste constituent concentration and mass is effective across the site. Migration of detectable concentrations of target parameters beyond the current plume boundary is not anticipated. In fact, reduction of the plume boundary is indicated by the monitoring data.

Assessment data collected to date currently provides over ten years of evidence indicating plume attenuation. Ongoing monitoring will provide the temporal data necessary to 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 is expected to 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
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
^{o}C	degrees Celsius

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Wiedemeier, Todd H., Rifai, Hanadi S., Newell, Charles J., and Wilson, John T., 1999, Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface, John Wiley and Sons, Inc.

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 1988 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.

"Watauga County Landfill Permit No. 95-02 Groundwater and Surface Water Assessment Monitoring Results, March 11-12, 2009 Event," dated June 1, 2009. DAA JN 6520-39

37 pages text, 8 tables, 2 figures and 5 appendices

Purpose: Results of thirtieth Assessment monitoring event sampled on March 11-12, 2009, 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**				**Semiannual Events (96-06) ***		**Semiannual Events (07-10) ***	
"CORE" ASSESSMENT WELLS								
Target Parameter Monitoring Parameters*	CLP Methods	CLP Methods	CLP Methods	CLP Methods	LLRA Methods	CLP Methods	LLRA Methods	LLRA Methods
"BOUNDARY" ASSESSMENT WELLS***								
Target Parameter Monitoring Parameters*	LLRA Methods	CLP Methods	LLRA Methods	CLP Methods	LLRA Methods	-	LLRA Methods	-
SURFACE WATER MONITORING								
Target Parameter Monitoring Parameters*	CLP Methods	-	CLP Methods	-	CLP Methods	CLP Methods	CLP Methods	CLP Methods

CLP - EPA Contract Laboratory Program Methods
LLRA - Low Level Risk Assessment Screening Methods (EPA SW-846) – GC Method 8021B (94-01); GCMS Method 8260B, 25 ml purge (02-10)

* - 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.

Watauga County Landfill

Watauga County, North Carolina

Table 2A

06/28/10

Upgradient Well: MW-1

First Semiannual 2010 Monitoring Event

Assessment Target Parameter Analytical Results

Core Subset Groundwater Monitoring Wells - Sampled March 17-18, 2010

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	3.0		0.2	J	0.5	U	1	5
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.4	J	0.2	J	0.5	U	50	100
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	1.2		1.5		0.5	U	6	100
Chloroethane	0.5	U	2.6		0.5	U	3.8		6.5		0.5	U	3000	-
Dichlorodifluoromethane	0.5	UJ	0.5	UJ	0.5	UJ	0.4	J	0.1	J	0.04	J	1000	-
1,1-Dichloroethane	56		7.8		0.1	J	13		19		1.0		6	-
1,1-Dichloroethene	89		0.1	J	0.5	U	0.5	U	0.3	J	0.5	U	7	7
1,2-Dichloroethane	0.5	U	0.1	J	0.5	U	0.1	J	0.4	J	0.5	U	0.4	-
1,2-Dichloropropane	0.5	U	0.3	J	0.5	U	0.3	J	0.8		0.5	U	0.6	5
Cis-1,2-Dichloroethene	0.3	J	21		0.5	U	8.2		41		1.9		70	70
Trans-1,2-Dichloroethene	0.5	U	0.3	J	0.5	U	0.3	J	0.5		0.5	U	100	100
Methylene Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	5	5
Tetrachloroethene	4.8		0.1	J	0.5	U	0.4	J	2.8		1.5		0.7	5
Trichloroethene	0.5		2.3		0.5	U	1.2		3.9		0.4	J	3	5
1,1,1-Trichloroethane	470		0.5	U	0.1	J	0.5	U	0.1	J	0.5	U	200	200
Vinyl Chloride	0.6	J	0.2	J	0.5	U	1.9	J	1.7	J	0.5	U	0.03	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).

Watauga County Landfill

Watauga County, North Carolina

Table 2B

05/24/10

First Semiannual 2010 Monitoring Event

Surface Water Monitoring - Sampled March 17-18, 2010

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	5	U	1.1	J	5	U	5	U	5	U	5	U	51	5
Chlorobenzene	5	U	0.6	J	5	U	5	U	5	U	5	U	140*	100
1,4-Dichlorobenzene	5	U	2.2	J	5	U	5	U	5	U	5	U	190	100
Chloroethane	5	U	16		5	U	5	U	5	U	5	U	550	-
Dichlorodifluoromethane	5	U	5	U	5	U	5	U	0.4	J	5	U	77000	-
1,1-Dichloroethane	5	U	2	J	5	U	1.4	J	5	U	5	U	170000	-
1,1-Dichloroethene	5	U	5	U	5	U	10	U	5	U	5	U	7100	7
1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U	5	U	37	-
1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U	5	U	15	5
Cis-1,2-Dichloroethene	5	U	1	J	5	U	3.4	J	5	U	5	U	4900	70
Trans-1,2-Dichloroethene	5	U	5	U	5	U	5	U	5	U	5	U	10000	100
Methylene Chloride	5	U	5	U	5	U	2.2	J	1.5	J	5	U	590	5
Tetrachloroethene	5	U	5	U	5	U	5	U	5	U	5	U	3.3	5
Trichloroethene	5	U	5	U	5	U	0.5	J	5	U	5	U	30	5
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	0.7	J	5	U	2500*	200
Vinyl Chloride	5	U	5	U	5	U	5	U	5	U	5	U	2.4	2

Notes:

WQS Denotes North Carolina 15A NCAC 2B Surface Water Quality Standard (Human Health) or National Criteria per EPA, current 4/30/09

* freshwater aquatic life standard (no human health standard available).

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.

Organic parameters were analyzed in accordance with EPA CLP Statement of Work SOMO1.2.

Watauga County Landfill

Watauga County, North Carolina

Table 2C

06/28/10

First Semiannual 2010 Monitoring Event

Inorganic Parameter Analytical Results

Core Subset Groundwater Monitoring Wells - Sampled March 17-18, 2010

Parameters	Results ug/L(ppb)												NCS (ug/L)	MCL (ug/L)
	MW-2		MW-3		MW-8		MW-9		MW-12		MW-17			
Barium	304	J	128	J	232	J	604	J	330	J	521	J	200	2000
Chromium	10	U	10	U	30		10	U	10	U	10	U	10	100
Cobalt	50	U	50	U	9.3	J	6.8	J	50	U	3.7	J	-	-
Iron	1600	J	1860	J	9620	J	67.8	J	100	U	455	J	300	300*
Nickel	2.8	J	3.3	J	14.1	J	40	U	3.4	J	4.1	J	100	-
Vanadium	3.9	J	4.6	J	19.5	J	50	U	0.9	J	1.1	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

March 17-18 , 2010

Semi-Annual Assessment Monitoring Event

Detected Non-Target Organic Parameters

Parameter	MW-2		MW-12		MW-17	
Chloroform	0.06	J	0.29	J	0.06	J
1,2-Dichlorobenzene	0.50	U	0.15	J	0.50	U
1,1,2-Trichloroethane	0.09	J	0.50	U	0.50	U

Notes:

All concentrations are in ug/l.

J Denotes an estimated value.

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

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

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1

TABLE 4
GROUNDWATER LEVEL DATA
MONITORING WELLS

24-Mar-10

	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	17.68	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
9/1/09	39.95	5.60	17.98	NM	NM	ABANDON	ABANDON	24.45	63.51	7.78
3/17/10	NM	3.32	14.75	NM	NM	ABANDON	ABANDON	14.32	61.95	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	3146.48	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
9/1/09	3301.85	3147.34	3165.14	NM	NM	ABANDON	ABANDON	3214.63	3295.72	3196.09
3/17/10	NM	3149.62	3168.37	NM	NM	ABANDON	ABANDON	3225.45	3297.28	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
Upgradient Well: MW-1

TABLE 4
GROUNDWATER LEVEL DATA
MONITORING WELLS

24-Mar-10

	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
9/1/09	13.48	10.68	NM	NM	11.46	ABANDON	18.34	NM	15.92
3/17/10	NM	10.01	NM	NM	NM	ABANDON	15.88	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	3102.10	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
9/1/09	3146.12	3148.47	NM	NM	3109.19	ABANDON	3165.28	NM	3124.08
3/11/09	NM	3149.14	NM	NM	NM	ABANDON	3167.74	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\2010 tables\[XLS - 10 0324 - NCDENR - TABLE4 - JES.xlsx]TABLE4

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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				
Organics																												
Benzene	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			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	2	J			CLP
MCL= 5 ug/l	2/06/95	10	U	150	U	2	J	12	J	3.6		5	J	2	J	50	U	10	U	10	U	1	U	10	U			CLP
NCS = 1 ug/l	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			CLP
	7/10/95	2	U	2	U	2.3		14		2.2		6.2		4		2	U	2	U	2	U	10	U	2	U			8021
	7/10/95	5	U	5	U	2.6	J	13		2.7	J	5.5		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		4	J	23	U	10	U	1	J	10	U	10	U			CLP
	4/8/97	1	U	100	U	2		-		4.8		2.3		3.9		100	U	1	U	1.4		1	U	1				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			CLP
	6/23/98	-		25	UJ	1	J	-		-		3	J	3	J	-		-		2	J	-		2	J			CLP
	1/12/99	1	U	1	U	3.6		-		2.4		2		3.2		1	U	1	U	2.5		1	U	1.4				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		-		2.3		1.6		3.2		1	U	1.4		2.2		1	U	2.4				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		-		2.3		1.3		4.3		1	U	1.8		2.8		1	U	5				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		0.5	U	2		0.5	U	1		2		0.5	U	3				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			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			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		0.5	U	0.22	J			8260B
	3/30-31/05	-		67	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U			CLP
	10/3-4/05	-		25	U	0.62		-		-		0.5	U	4.1		0.5	U	0.29	J	0.61		0.5	U	0.5	U			8260B
	4/4-5/06	-		10	U	10	U	-		-		10	U	3	J	-		-		10	U	-		10	U			CLP
	9/27-28/06	0.50	U	0.50	U	2.5	U	-		-		0.50	U	1.6		0.50	U	0.27	J	0.36	J	0.50	U	0.50	U			8260B
	4/2-3/07	-		13	U	10	U	-		-		0.50	U	2.8		-		-		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		0.50	U	0.31	J	0.38	J	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			8260B
	9/8-9/08	0.50	U	8.3	U	0.50	U	-		-		0.50	U	3.1		0.50	U	0.29	J	0.36	J	0.50	U	0.50	U			8260B
	3/11-12/09	-		0.50	U	0.50	U	-		-		0.50	U	2.9		-		-		0.4	J	-		0.50	U			8260B
	9/1-2/09	0.50	U	0.50	U	0.50	U	-		-		0.50	U	3.1		0.50	U	.18	J	0.26	J	0.50	U	0.50	U			8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	6/20/94	10	U	120	U	6	J	8	J	7.33	J	9.44		56.78	J	9.29	U	1.16	J	20.23		9.29	U	28.21		CLP/8021
	9/27/94	10	U	170	U	8	J	10	J	16		7	J	18		10	U	10	U	5	J	10	U	7	J	CLP
no MCL established	2/06/95	10	U	150	U	7	J	11	J	28		7	J	17		50	U	10	U	4	J	1	U	5	J	CLP
NCS = 3000 ug/l	4/11/95	10	U	200	U	6	J	8	J	16		7	J	15		71	U	10	U	2	J	10	U	4	J	CLP
	7/10/95	2	U	2	U	10	U	15	U	9.2		10	U	20	U	2	U	2	U	5	U	10	U	5	U	8021
	7/10/95	5	U	5	U	8.7		16		22		9.3		21		5	U	5	U	6.4		-		4.9	J	8260
	4/10/96	10	U	91	U	8	J	14	J	41		10	J	16		23	U	10	U	5	J	10	U	5	J	CLP
	4/8/97	1	U	1	U	46		-		58		38		110		1	U	12		40		1	U	30		8021
	1/15/98	10	U	20	U	10		-		19		12		12		20		10	U	5	J	10	U	9	J	CLP
	6/23/98	-		25	UJ	5	J	-		-		11	J	8	J	-		-		5	J	-		6	J	CLP
	1/12/99	2	U	2	U	100	U	-		43		40	U	60	U	2	U	25		50	U	2	U	40	U	8021B
	7/12/99	-		10	U	8	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		-		-		16		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	-		-		28	J	5	J	-		-		8	J	-		14	J	CLP
	2/11-14/02	0.5	U	0.5	U	8		-		23		4		3		0.5	U	7		8		0.5	U	10		8260B
	8/12-14/02	0.5	U	10	U	21		-		18		38		10	U	1	U	0.5	U	17		0.5	U	17		CLP/8260B
	1/21-22/03	-		10	U	4	J	-		-		-		4	J	-		-		4	J	-		7	J	CLP
	7/14-15/03	1	U	17	U	4		-		-		1	U	1	U	4.2	U	5.6	J	1	U	1	UJ	2.9	J	8260B
	3/16-17/04	-		10	U	20		-		-		17		9	J	-		-		10	U	-		10	U	CLP
	9/29-30/04	0.5	U	0.44	J	7.8	J	-		-		0.5	U	6.3	J	0.84	U	6.6	J	6.2		0.5	U	5.3	J	8260B
	3/30-31/05	-		67	U	10	U	-		-		10	U	3	J	-		-		10	U	-		10	U	CLP
	10/3-4/05	-		25	U	10		-		-		0.5	U	6.6		0.5	U	7		9.7		0.5	U	0.89	J	8260B
	4/4-5/06	-		10	U	11		-		-		11		7	J	-		-		12		-		10	U	CLP
	9/27-28/06	0.50	U	0.39	J	8.7		-		-		0.50	U	2.9		0.50	U	7.5	J	4.9		0.50	U	0.71		8260B
	4/2-3/07	-		13	U	11		-		-		1.5		6.5		-		-		12		-		0.50	U	8260B
	9/18-19/07	0.50	U	0.39	J	7.8		-		-		1.2		5.8		0.50	U	8.7		9.4		0.50	U	0.7		8260B
	3/11/08	-		10	U	1.5		-		-		0.50	U	5.1		-		-		11		-		0.9		8260B
	9/8-9/08	0.50	U	8.3	U	1.2	J	-		-		0.50	U	4.9		0.50	U	7.3		9.4		0.50	U	0.9		8260B
	3/11-12/09	-		0.5	U	2.4		-		-		0.50	U	5.8		-		-		9.9		-		0.50	U	8260B
	9/1-2/09	0.50	U	0.5	U	2.3		-		-		0.50	U	4.7		0.50	U	5.5		7		0.50	U	0.50	U	8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	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
no MCL established	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
NCS = 1000 ug/l	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	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	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	8021B
	7/12/99	-		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	U	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		-		-		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		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		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	8260B
	3/11-12/09	-		0.50	U	0.50	U	-		-		0.50	U	0.4	J	-		-		0.50	U	-		0.50	U	8260B
	9/1-2/09	0.50	U	8.3	U	0.50	U	-		-		0.50	U	0.66		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	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
no MCL established	2/06/95	10	U	160		180		140		2.9		74		30		37	J	28		120		1	U	170				CLP
NCS = 6 ug/l	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
	3/11-12/09	-		25		8.1		-		-		0.20	J	15		-		-		25		-		3.7				8260B
	9/1-2/09	0.50	U	42		7.9		-		-		0.50	U	13		9.5		18		20		0.10	J	1.5				8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
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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	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
MCL= 7 ug/l	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
NCS = 7 ug/l	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	-		-		J	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	J	0.50	U	0.50	U	8260B
	3/11-12/09	-		46		0.50	U	-		-		0.50	U	0.50	U	-		-		0.30	J	-		0.50	U	8260B
	9/1-2/09	0.50	U	80		0.10	J	-		-		0.50	U	0.50	U	15		0.19	J	0.26	J	0.50	U	0.50	U	8260B

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Upgradient Well: MW-1
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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)	6/20/94	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
MCL= 70 ug/l	2/06/95	10	U	150	U	54		370		7.2		91		2	J	50	U	8	J	37		1	U	80				CLP
NCS = 70 ug/l	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
	3/11-12/09	-		0.50	U	24		-		-		0.50	U	9.1		-		-		59		-		6.1				8260B
	9/1-2/09	0.50	U	0.20	J	20		-		-		0.50	U	8.1		0.50	U	28		41		0.50	U	2.9				8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
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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	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
MCL= 5 ug/l	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
NCS = 5 ug/l	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			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	1.4				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	0.8	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			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			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			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		-		-		0.5	U	0.31	J	0.5	U	0.38	J	0.76		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			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	0.1	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			8260B
	3/11-12/09	-		0.50	U	0.50	U	-		-		0.50	U	0.50	U	-		-		0.50	U	-		0.50	U			8260B
	9/1-2/09	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	0.50	U			8260B

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Watauga County Landfill
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Upgradient Well: MW-1
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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	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
MCL= 5 ug/l	2/06/95	10	U	18	J	46		33		1	U	31		4	J	6	J	8	J	32		1	U	48								CLP
NCS = 0.7 ug/l	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	UJ	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	UJ	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
	3/11-12/09	-		3.4	J	0.9	J	-		-		0.5	UJ	0.9	J	-		-		4.6	J	-		4.2	J							8260B
	9/1-2/09	0.50	U	4.5		0.43	J	-		-		0.50	U	1.1		2.7		0.89		1.4		0.50	U	0.80								8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	6/20/94	10	U	120	U	16		21	J	21.2	U	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
MCL= 5 ug/l	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
NCS = 3 ug/l	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
	4/4-5/06	-		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		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
	3/11-12/09	-		0.50	U	2.5		-		-		0.4	J	1.4		-		-		5.1		-		1.1		8260B
	9/1-2/09	0.50	U	0.44	J	2.3		-		-		0.50	U	1.4		0.16	J	2.6		4.4		0.50	U	0.47	J	8260B

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Watauga County Landfill

Watauga County, North Carolina

Upgradient Well: MW-1

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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	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
MCL= 200 ug/l	2/06/95	10	U	2700		31		25	U	1	U	6	J	14		650		5	J	18		2.5		14				CLP
NCS = 200 ug/l	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	2	U	1600		26		2	U	2	U	6		12		990		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
	3/11-12/09	-		200		0.50	U	-		-		0.50	U	0.50	U	-		-		0.50	U	-		0.50	U			8260B
	9/1-2/09	0.50	U	370		0.50	U	-		-		0.50	U	0.50	U	72		0.12	J	0.50	U	0.43	J	0.50	U			8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	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
MCL= 2 ug/l	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
NCS = 0.03 ug/l	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	1.2				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
	3/11-12/09	-		0.2	J	0.1	J	-		-		0.50	U	1.7		-		-		2.9		-		0.50	U			8260B
	9/1-2/09	0.50	U	0.38	J	0.18	J	-		-		0.50	U	1.8		0.50	U	1.5		1.9		0.50	U	0.50	U			8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

Table 5A

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

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

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 Avaliable 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 anlytical 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

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Table 5B

05/24/10

Watauga County, North Carolina

Background Assessment Organic Target Parameter Analytical Results

Upgradient Well: MW-1

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)
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	3000	-
	9/27/94	18		-		10	U	10	U	10	U	10	U	10	U	CLP	3000	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	3000	-
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	3000	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	3000	-
	4/10/96	-		-		-		-		10	U	-		-		CLP	3000	-
	4/8/97	-		-		-		-		1	U	-		-		8021	3000	-
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	3000	-
	2/12-14/01	2	U	2	U	2	U	2	U	2	U	-		2	U	8021	3000	-
	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	3000	-
	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	3000	-
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	3000	-
Dichlorodifluoromethane	6/20/94	10	U	-		46.64	U	46.64	U	46.64	U	46.64	U	46.64	U	8021	1000	-
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	1000	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	1000	-
	4/11/95	10	U	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ	CLP	1000	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	1000	-
	4/10/96	-		-		-		-		10	U	-		-		CLP	1000	-
	4/8/97	-		-		-		-		1	U	-		-		8021	1000	-
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	1000	-
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	1000	-
	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	1000	-
	8/12-14/02	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	8260B	1000	-
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	1000	-
1,1-Dichloroethane	6/20/94	10	U	-		0.99	J	43.1	U	0.26	J	43.1	U	43.1	U	8021	6	-
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	6	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	6	-
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	6	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	6	-
	4/10/96	-		-		-		-		10	U	-		-		CLP	6	-
	4/8/97	-		-		-		-		1	U	-		-		8021	6	-
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	6	-
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	6	-
	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	6	-
	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	6	-
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	6	-

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)
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	1	U	8021	7	7
	4/11/95	10	U	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	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	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	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	1	U	8021	70	70
	4/11/95	10	U	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	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	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	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	100	-
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	100	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	100	-
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	100	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	100	-
Methylene Chloride	6/20/94	10	U	-		36.2	UJ	36.2	UJ	36.2	UJ	36.2	UJ	36.2	U	8021	5	5
	9/27/94	13	U	-		10	U	10	U	10	U	33		27		CLP	5	5
	2/06/95	10	U	1	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	10	U	CLP	5	5
	7/10/95	10	U	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	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	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	0.24	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	1	U	8021	0.7	5
	4/11/95	10	U	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	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	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	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

Table 5B

Watauga County, North Carolina — Background Assessment Organic Target Parameter Analytical Results

Upgradient Well: MW-1 — 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	3	5
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	3	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	3	5
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	3	5
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	3	5
	4/10/96	-		-		-		-		10	U	-		-		CLP	3	5
	4/8/97	-		-		-		-		1	U	-		-		8021	3	5
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	3	5
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	3	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	3	5
	8/12-14/02	0.5	U	0.5	U	0.5	U	1	J	0.5	U	0.5	U	0.5	U	8260B	3	5
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	3	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		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		-		-		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		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	0.03	2
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	0.03	2
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	0.03	2
	4/11/95	10	UJ	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ	CLP	0.03	2
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	0.03	2
	4/10/96	-		-		-		-		10	U	-		-		CLP	0.03	2
	4/8/97	-		-		-		-		1	U	-		-		8021	0.03	2
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	0.03	2
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	0.03	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	0.03	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	0.03	2
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	0.03	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 Avaliable 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.

P:\06\500\06520\06520-39\Reports\2010 tables\[XLS - 10 0524 - NCDENR - TABLE5BC - JES.xls]TABLE5B

Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	
ORGANICS																	
Benzene	6/20/94	10	U	3	J	10	U	1	J	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 51 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
Chloroethane	6/20/94	10	U	56		10	U	10	U	11		-		-		-	
	9/27/94	-		-		-		-		-		-		13		10	U
WQS = 550 ug/l	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		-		-	
	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	-		-	
	3/11-12/09	10	U	6	J	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	4.6	J	5	U	5	U	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	6/20/94	10	U	4	J	10	U	10	U	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 77000 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	2.5	J	5	U	-		-	
1,1-Dichloroethane	6/20/94	1	J	23		10	U	59		2	J	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 170000 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	4	J	10	U	10	U	-		-	
	0.54	0.5	J	5	U	5	U	1.8	J	0.81	J	10	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	6/20/94	10	U	10	U	10	U	10	U	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 7100 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	4	J	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
cis-1,2-Dichloroethene(2)	6/20/94	10	U	4	J	10	U	58		10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 4900 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	9	J	10	U	10	U	-		-	
	9/1-2/09	5	U	0.29	J	5	U	4.8	J	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	6/20/94	6	J	9	J	3	J	1	J	8	J	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 590 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
Tetrachloroethene	6/20/94	10	U	10	U	10	U	18		10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 3.3 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	0.36	J	0.54	J	0.33	J	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	
Trichloroethene	6/20/94	10	U	1	J	10	U	13		10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 30 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	0.41	J	5	U	0.67	J	5	U	5	U	-		-	
1,1,1-Trichloroethane	6/20/94	10	U	2	J	10	U	3	J	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 2500 ug/l*	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	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
05/24/10

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	6/20/94	10	U	10	U	10	U	10	U	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 2.4 ug/l	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	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	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 Avaliable or Not Sampled

WQS Denotes North Carolina 15A NCAC 2B Surface Water Quality Standard (Human Health) or National Criteria per EPA, current 4/30/09

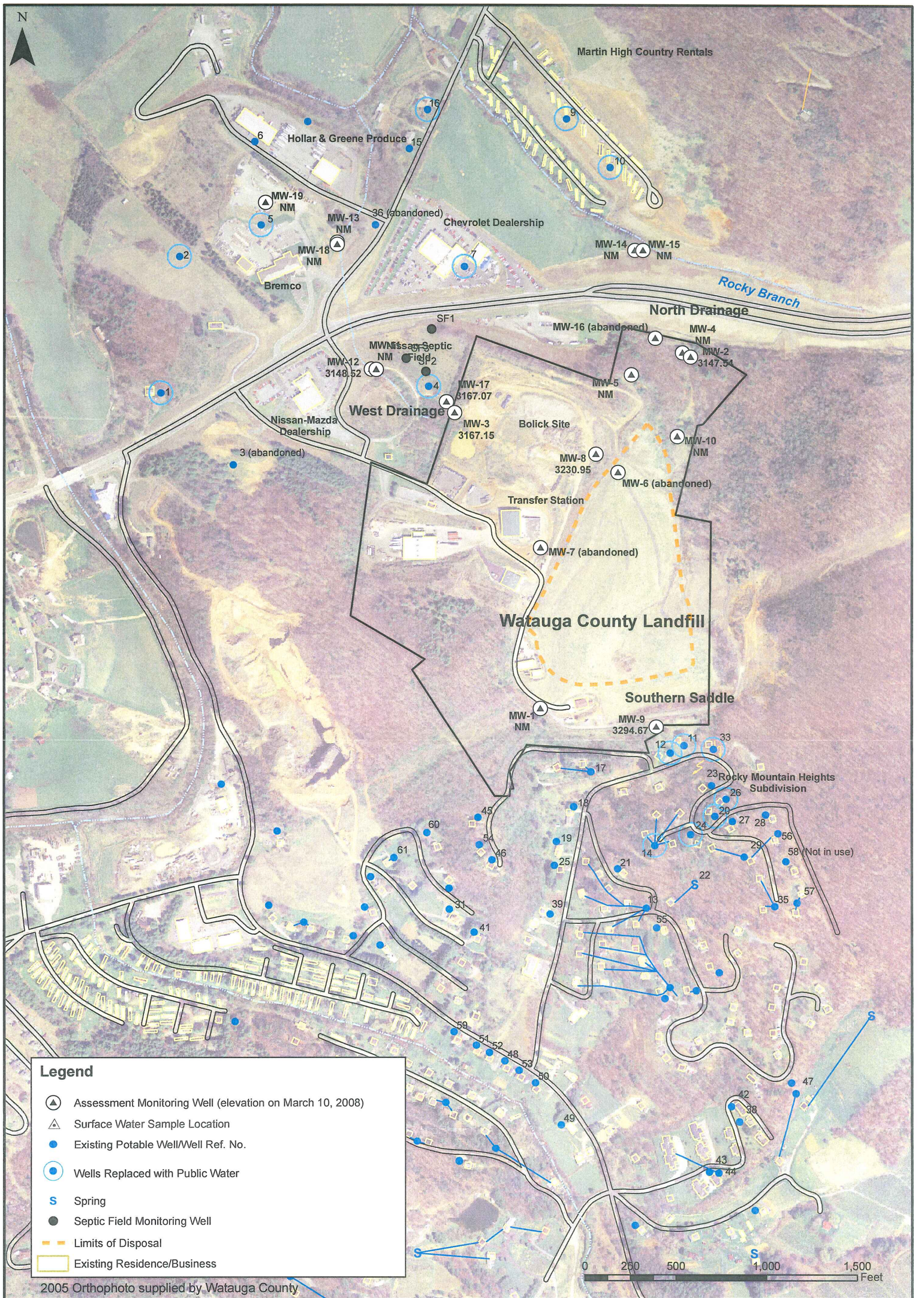
* freshwater aquatic life standard (no human health standard available).

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.



Groundwater & Surface Water Monitoring Program Site Map
Watauga County Landfill
Watauga County, North Carolina

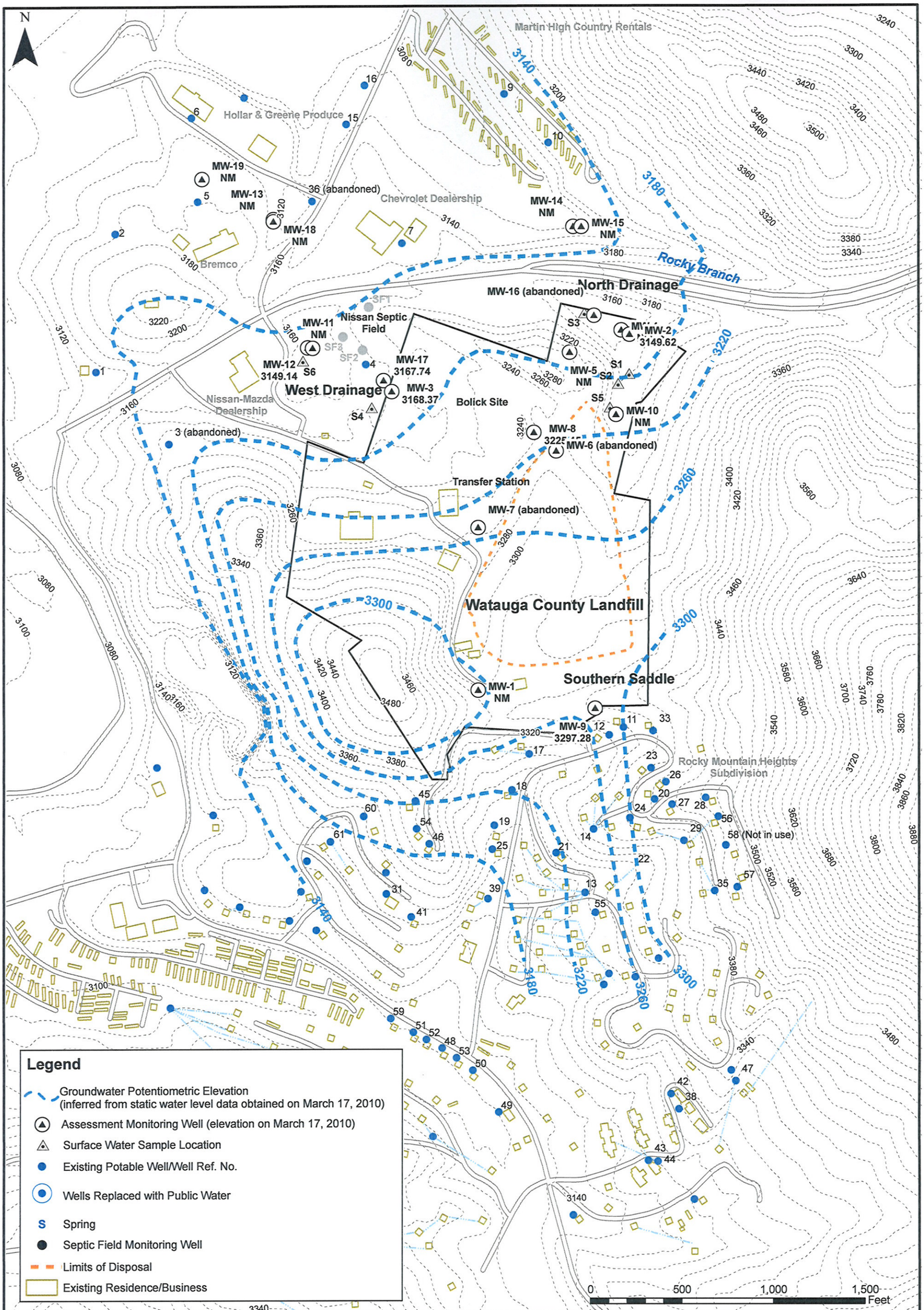
SCALE 1" = 500'
PLAN NO. 6520-39

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

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

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
Richmond, VA
Charlottesville, VA
Hampton Roads, VA

DESIGNED	JES
DRAWN	CVM
CHECKED	MDL
DATE	03-25-10

FIGURE 2

File: P:\06\500\06520\06520-39\GIS\MAP - 09 0916 - Fig 2 - Watauga Landfill - Potentiometric.mxd

APPENDIX B

FIELD NOTES

09/02/09

MW-15 Continued From page 73.
Sample Time: (1550)
Samples Collected: (3) 8260

Residence Sample Table

Residence	Sample Date/(Time)	Samples Collected
Res 1	09/02/09/ (1300)	(3) VOA 524.2
Res 2	09/02/09/ (1310)	(3) " "
Res 15	09/02/09/ ~~(1325)~~ (1605)	(3) " "
Res 16	09/02/09/ (1555)	(3) " "
H+6(#4)	09/02/09/ (1620)	(3) " "
Bramco(#5)	09/02/09/ (1325)	(3) " "

COMPLETED
9/11/09 CSC

3/17/10 Watauga Co LF FB#2
6520+39
CJB/DAS

General Notes
Weather-Overcast, 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 1413 µs in 1413 µs std
DO% = 100

Static Water Level Table

WELL	DTW	Notes
MW-2	3.32	
MW-3	14.75	
MW-8	14.32	
MW-9	~~86.40~~ 61.95	
MW-12	~~15.88~~ 10.01	
MW-17	15.88	

MW-9
TD - 86.40
DTW - 61.95
24.45 X 0.163 = 3.98 X3 = 11.95 gallons

Begin Purge (1235)
Initial Purge-clear

Time	Temp(C)	Cond(µs)	DO mg/L	pH	ORP(mV)	Purge Rate(gpm)	Vol(gal)	Desc
(1240)	12.55	346	1.91	5.47	68.8	0.50	2.50	Cle
(1246)	13.61	322	1.51	5.54	68.2	"	5.50	Cle
(1252)	13.92	304	1.49	5.57	68.8	"	8.50	Cle
(1259)	14.13	304	1.52	5.61	68.9	"	12.10	Cle

(1259) Well purged @ 12.0 gallons

3/17/10 Watauga Co LF FB#2

GS 20-39
CJB/DAS

mw-2

TD - 177.50 Begin Purge (1453)
DTW 3.32 Initial Purge - Clear
174.18 x 0.65 = 113.21 x3 = 339.65 gallons

Time	Temp(C)	Cond(us)	DO mg/L	pH	ORP(mv)	Purge K(gpm)	Vol(gal)	Desc
(1455)	11.62	272	2.28	7.48	1.5	4.0	8.0	Clear
(1523)	11.64	288	1.14	7.40	23.0	"	120.0	Clear
(1551)	11.96	279	1.13	7.45	23.2	"	232.0	Clear
(1618)	12.15	275	0.66	7.46	23.6	"	340.0	Clear
(1618)	Well purged @ 340.0 gallons							

mw-8

TD - 67.00 Begin Purge (1609)
DTW - 14.32 Initial Purge - Cloudy (Light tannish Brown)
52.68 x 0.163 = 8.58 x3 = 25.76 gallons

Time	Temp(C)	Cond(us)	DO mg/L	pH	ORP(mv)	Purge K(gpm)	Vol(gal)	Desc
~~(1610)~~	12.34	133	4.58	6.34	49.0	0.50	0.50	Sl. Cloudy
~~(1620)~~	13.50	99	3.29	6.25	60.0	"	5.50	Sl. Cloudy
~~(1630)~~	13.85	97	3.59	6.30	62.1	"	10.50	Sl. Cloudy
~~(1636)~~	13.68	96	5.07	6.33	64.6	"	13.50	Cloudy
~~(1636)~~	Well purged dry @ ± 13.50 gallons							
(1436)	DS 3/17/10							

mw-17

TD - 94.54 Begin Purge (1645)
DTW 15.88 Initial Purge - Clear
78.66 x 0.163 = 12.82 x3 = 38.46 gallons

Time	Temp(C)	Cond(us)	DO mg/L	pH	ORP(mv)	Purge K(gpm)	Vol(gal)	Desc
(1650)	12.43	243	2.78	5.91	78.6	1.0	5.0	Clear
(1700)	12.94	248	2.33	5.85	80.9	"	15.0	Clear
(1710)	12.75	283	1.20	6.01	77.7	"	25.0	Clear
~~(1724)~~						"	~~38.0~~	
(1710)	Well purged dry @ ± 25.0 gallons							

3/17/10 Watauga Co LF FB#2

GS 20-39
CJB/DAS

mw-3

TD - 39.60 Begin Purge (1714)
DTW - 14.75 Initial Purge - Clear
24.85 x 0.163 = 4.05 x3 = 12.15 gallons

Time	Temp(C)	Cond(us)	DO mg/L	pH	ORP(mv)	Purge K(gpm)	Vol(gal)	Desc
(1715)	12.28	295	2.67	5.85	78.7	0.50	0.50	Clear
(1723)	12.62	294	2.57	5.86	79.1	"	4.50	Sl. Cloudy
(1731)	12.69	294	2.57	5.86	78.4	"	8.50	Sl. Cloudy
(1739)	12.73	294	2.57	5.86	78.9	"	12.50	Sl. Cloudy
(1739)	Well purged @ 12.50 gallons							

mw-12

TD - 72.75 Begin Purge (1753)
DTW - 10.01 Initial Purge - Clear
62.74 x 0.163 = 10.22 x3 = 30.69 gallons

Time	Temp(C)	Cond(us)	DO mg/L	pH	ORP(mv)	Purge K(gpm)	Vol(gal)	Desc
(1755)	11.93	462	0.96	6.00	69.3	1.0	2.0	Clear
(1805)	12.13	462	0.83	6.01	67.2	"	12.0	Clear
(1815)	12.17	460	0.85	6.02	65.4	"	22.0	Clear
(1824)	12.18	460	0.86	6.02	64.8	"	31.0	Clear
(1824)	Well purged @ 31.0 gallons							

General Notes

Weather - Sunny 30-50's

PPE - Eye Protection, Nitrile gloves

Calibrations: YSI 650 MDS

- pH: 4.00 = 4.00, 7.00 = 7.00, 10.00 = 9.98
- Conductivity reads 1413 us in 1413 us Std
- DO % = 100

MW-9

Sample Time (1115)

Samples Collected: (3) 8260, (1) CLP Metals

MW-2

Sample Time (1200)

Samples Collected: (3) 8260, (1) CLP Metals

MW-8

Sample Time (1135)

Samples Collected: (3) 8260, (1) CLP Metals

MW-17

Sample Time (1330)

Samples Collected: (3) 8260, (1) CLP Metals

MW-3

Sample Time (1340)

Samples Collected: (3) 8260, (3) CLP Metals

MW-12

Sample Time (1425)

Samples Collected: (3) 8260, (1) CLP Metals

Spring Sample Collection Table

Spring	Temp(C)	Cond(us)	DO mg/L	pH	ORP(mv)	Date	Time	Samples Collected
S-1	6.78	164	7.23	5.54	61.4	3/18/10	(1235)	(3) CLP volitales OLMO 4.3
S-2	13.29	734	1.51	5.65	-27.7	3/18/10	(1245)	"
S-3	9.29	337	10.70	6.90	-13.8	3/18/10	(1215)	"
S-4	11.32	226	10.10	5.98	107.6	3/18/10	(1355)	"
S-5	11.25	274	7.31	6.21	90.6	3/18/10	(1305)	"
S-6	9.51	95	10.24	6.72	45.6	3/18/10	(1435)	"

Residence Sample Collection Table

Residence	Date	Time	Notes	Samples Collected
RES-1	3/18/10	(0915)		(3) Volitales S24.2
RES-2	3/18/10	(0930)		(3) " "
RES-15	3/18/10	3/18/10 (1040) ~~(0950)~~		(3) " "
RES-16	3/18/10	(1025)		(3) " "
H&G Produce	3/18/10	(1010)		(3) " "
BREMCO	3/18/10	(0950)	Sampled @ 326'	(3) " "

COMPLETED 3/25/10 [illegible]

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 (ug/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-J		---	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)

[illegible] 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	---	---	

[illegible] 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	
	March 5, 1993	SW846 Method 8021	0.3						0.38	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, 1993 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
(1993-2010)

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	5
Chloroethane	173.4	74.5		**ND**		3000	---
Chloromethane	**ND**	14.8		**ND**		3	---
Dichlorodifluoromethane	30.6	**ND**		**ND**		1000	---
1,1-Dichloroethane	20.9	17.4		**ND**		6	---
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		5	5
Styrene	2.8	0.5		**ND**		70	100
Tert-Butyl Methyl Ether	**ND**	**ND**		2.4		20	---
Tetrachloroethene	5.4	4.7		4.2		0.7	5
Toluene	**ND**	0.6 (T)		**ND**		600	1000
1,1,1-Trichloroethane	19.7	15.7		29.4		200	200
Trichloroethene	7	5.5		7.0		3	5
Trichlorofluoromethane	37.1	20.2		**ND**		2000	---
Vinyl Chloride	1.7 (T)	**ND**		**ND**		0.03	2
p and m-Xylene	**ND**	**ND**		<1.0		500	10,000
o-Xylene	**ND**	3.4		2.9		500	10,000
Nissan-Mazda Dealership, 2464 Hwy 421 S (Well Ref. No. 4) WELL ABANDONED IN 1995							
Carbon Tetrachloride	0.2		**ND**		**ND**	0.3	5
Chloroethane	19.1		**ND**		**ND**	3000	---
Dichlorodifluoromethane	8.2		8.7		**ND**	1000	---
1,1-Dichloroethane	98.5		63.1		104.3	6	---
1,2-Dichloroethane	**ND**		0.5		**ND**	0.4	---
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**	0.6	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**	600	1000
1,1,1-Trichloroethane	14.7		19.3		22.9	200	200
Trichloroethene	11.2		9.1		12.6	3	5
Trichlorofluoromethane	0.4		**ND**		**ND**	2000	---
o-Xylene	0.4		0.5(T)		**ND**	500	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	6	---
1,1,1-Trichlorothane	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	3	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	5	5
Methyl-t-butyl-ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	trace	20	---
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	3000	---
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000	---

CONSTITUENT	8/7/01***	2/11/02***	8/14/02****	1/22/03****	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^^	9/2/09^^	3/18/10^^	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	0.4(J)	0.5(J)	1	5
sec-Butylbenzene	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01(J)	ND	0.01(J)	0.2(J)	70	---
1,4-Dichlorobenzene	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.3	0.8	1	1.3	1.4	1.6	2.3	6	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	36	28	6	---
1,1,1-Trichlorothane	ND	ND	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	0.9	1	3	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	1.3	1.4	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	5.5	6.2	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)	0.2(J)	0.2(J)	100	70
Tetrachloroethene	ND	ND	ND	NS	0.53	ND	ND	ND	ND	ND	ND	ND	0.4 (J)	0.5 (J)	0.4 (J)	0.4 (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	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	0.8	1.5	5	5
Methyl-t-butyl-ether	ND	ND	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	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	9	11	3000	---
Dichlorodifluoromethane	1	1	1.6		0.94	0.59	0.58	ND	ND	ND	ND	0.6	1.2	1.2	1	1	0.9	0.9	1000	---
Chlorobenzene	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.1 (J)	0.2 (J)	0.2 (J)	0.2 (J)	0.3 (J)	0.3 (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	ND	0.2 (J)	0.4	---
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)	0.2 (J)	0.2 (J)	0.6	5
Toluene	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	600	1000
Vinyl Chloride	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.4 (J)	0.5	0.5(J)	0.4(J)	0.4(J)	0.5(J)	0.03	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^^	9/2/09^^	3/18/10^^	NCS	MCL
2347 Hwy 421 S (Well Ref. No. 2) Connected to public water in 2(																							
tert-Butylbenzene	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	---
Isopropylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	---
Trichloroethene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2(J)	ND	ND	0.2(J)	ND	0.2(J)	ND	3	5
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	ND	0.7	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	ND	ND	400	---
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	6.4	1.0	6	---
1,1-Dichloroethene	ND	trace	trace	ND	trace	ND	ND	ND	trace	ND	ND	ND	ND	ND	0.3(J)	0.3(J)	0.2(J)	0.3(J)	ND	0.3(J)	ND	7	7
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	trace	ND	ND	ND	ND	ND	0.5	0.2(J)	0.6	0.8	0.1J	0.9	ND	70	70
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	0.3(J)	0.3(J)	0.4(J)	0.3(J)	0.3(J)	ND	1000	---
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	0.5(J)	0.5	0.7	0.5(J)	0.9	ND	3000	---
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	ND	ND	0.03	2
Methyl Ethyl Ketone	ND	trace	35.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4000	---
Tetrahydrofuran	ND	ND	42.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Benezene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4(J)	ND	1	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	ND	ND	1.0	ND	ND	600	1000
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5(J)	ND	ND	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; unoccuppied 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	3	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	ND	trace	trace	ND	trace	ND	ND	ND	ND	ND	ND	6	---
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	0.6	80
Dibromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.81	1.6	ND	ND	ND	ND	0.4	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	0.02	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^^	9/2/09^^	3/18/10^^	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	ND	ND	1	5
Toluene	ND	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600	1000
Tetrachloroethene	ND	trace	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	0.2(J)	02(J)	0.7	5
Ethylbenzene	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600	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	ND	ND	500	10,000
Styrene	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	100
cis-1,2-Dichloroethene	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	ND	ND	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^^	9/09^^	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	ND	ND	500	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	1000	---
Naphthalene	0.7	ND	ND	ND	6	---
Chloromethane	<9	ND	ND	ND	3	---
Methylene Chloride	<0.6	ND	ND	ND	5	5
Chloroform		ND	<1.0	NDT	70	80

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^^	9/2/09^^	3/18/10^^	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	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	0.5(J)	0.3 (J)	70	70
Tetrachloroethene	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	0.2(J)	0.1(J)	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	70	---
Carbon Tetrachloride	0.1	ND	ND	ND	ND	ND	ND	0.3	5
Methylene Chloride	1.5	ND	ND	ND	ND	ND	ND	5	5
alpha-Chlordane	0.4	ND	ND	ND	ND	ND	ND	-	2
gamma-Chlordane	0.3	ND	ND	ND	ND	ND	ND	-	2
1,4-Dichlorobenzene	ND	ND	ND	trace	ND	ND	ND	6	75
2-Butanone	ND	ND	ND	ND	2.3J	ND	ND	4000	---
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	0.6	80
Methyl-t-butyl-ether	ND	24.4	2.5	ND	20	---

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	6	75
1,1-Dichloroethane	ND	ND	ND	<1.0	<1.0	<1.0	ND	ND	ND	6	---
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-Trichoroethane	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	0.6	80
Dibromochloromethane	ND	ND	ND	<1.0	ND	ND	ND	ND	ND	0.4	80
2-Chlorotoluene	ND	ND	ND	1.2	ND	ND	ND	ND	ND	100	---
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	4000	---
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	20	---
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	100	100
1,1,1-Trichloroethane	trace	ND	ND	ND	ND	200	200
Trichloroethene	trace	ND	ND	ND	ND	3	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	20	---
Toluene	ND	ND	ND	ND	trace	ND	ND	ND	600	1000
Ethyl Benzene	ND	ND	ND	ND	trace	ND	ND	ND	600	700
Xylenes	ND	ND	ND	ND	trace	ND	ND	ND	500	10000
1,4-Dichlorobenzene	ND	ND	ND	ND	trace	ND	ND	ND	6	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	0.4	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\2010 tables\[XLS - 10 0517 - NCDENR - POTTAB234 - JES.xls]WTGA3A (pg3)

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
BREMCO 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***,3/05,4/06,4/07,9/07,3/08,9/08,3/09,9/09,3/10^^
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^^
221/219Cane 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 Lanoratories utilizing EPA Method 524.2 (Volatiles)

NSC - North Carolina Water Quality Standard (DEHNR-15A NCAC 2L.0202) - as last updated 2/5/2010

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.

(T) denotes found in Trip Blank.

# denotes compound co-elutes.

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.

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-05

Level (low/med): LOW Date Received: 03/19/2010

% 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	330		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7439-89-6	Iron	100	U	N*E	P
7440-02-0	Nickel	3.4	J		P
7440-62-2	Vanadium	0.90	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-06

Level (low/med): LOW Date Received: 03/19/2010

% 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	521		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	3.7	J		P
7439-89-6	Iron	455		N*E	P
7440-02-0	Nickel	4.1	J		P
7440-62-2	Vanadium	1.1	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-02

Level (low/med): LOW Date Received: 03/19/2010

% 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	304		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7439-89-6	Iron	1600		N*E	P
7440-02-0	Nickel	2.8	J		P
7440-62-2	Vanadium	3.9	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-01

Level (low/med): LOW Date Received: 03/19/2010

% 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	128	J	E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7439-89-6	Iron	1860		N*E	P
7440-02-0	Nickel	3.3	J		P
7440-62-2	Vanadium	4.6	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-03

Level (low/med): LOW Date Received: 03/19/2010

% 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	232		E	P
7440-47-3	Chromium	30.0			P
7440-48-4	Cobalt	9.3	J		P
7439-89-6	Iron	9620		N*E	P
7440-02-0	Nickel	14.1	J		P
7440-62-2	Vanadium	19.5	J		P

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-04

Level (low/med): LOW Date Received: 03/19/2010

% 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	604		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	6.8	J		P
7439-89-6	Iron	67.8	J	N*E	P
7440-02-0	Nickel	40.0	U		P
7440-62-2	Vanadium	50.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0571

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.14	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	6.5	
75-69-4	Trichlorofluoromethane	0.50	U
107-02-8	Acrolein	5.0	U
75-35-4	1,1-Dichloroethene	0.27	J
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	2.5	U
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.34	JB
156-60-5	trans-1,2-Dichloroethene	0.54	
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	19	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	42	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	0.29	J
71-55-6	1,1,1-Trichloroethane	0.082	J
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-dichloropropene	0.50	U
71-43-2	Benzene	0.23	J
107-06-2	1,2-Dichloroethane	0.40	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	3.9	
78-87-5	1,2-Dichloropropane	0.77	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0571

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.056	JB
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	2.8	
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	0.23	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	2.0	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	1.5	
95-50-1	1,2-Dichlorobenzene	0.15	J
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 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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-05D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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	0.15	DJ
74-87-3	Chloromethane	0.84	U
75-01-4	Vinyl Chloride	1.7	D
74-83-9	Bromomethane	0.84	U
75-00-3	Chloroethane	6.3	D
75-69-4	Trichlorofluoromethane	0.84	U
107-02-8	Acrolein	8.4	U
75-35-4	1,1-Dichloroethene	0.26	DJ
74-88-4	Iodomethane	0.84	U
75-15-0	Carbon disulfide	0.84	U
67-64-1	Acetone	4.2	U
107-05-1	3-Chloropropene	0.84	U
75-05-8	Acetonitrile	0.84	U
75-09-2	Methylene Chloride	0.40	DBJ
156-60-5	trans-1,2-Dichloroethene	0.51	DJ
107-13-1	Acrylonitrile	8.4	U
75-34-3	1,1-Dichloroethane	19	D
108-05-4	Vinyl acetate	1.7	U
594-20-7	2,2-Dichloropropane	0.84	U
156-59-2	cis-1,2-Dichloroethene	41	D
78-93-3	2-butanone	4.2	U
107-12-0	Propionitrile	42	U
74-97-5	Bromochloromethane	0.84	U
126-98-7	Methacrylonitrile	8.4	U
67-66-3	Chloroform	0.26	DJ
71-55-6	1,1,1-Trichloroethane	0.84	U
56-23-5	Carbon Tetrachloride	0.84	U
563-58-6	1,1-dichloropropene	0.84	U
71-43-2	Benzene	0.24	DJ
107-06-2	1,2-Dichloroethane	0.33	DJ
78-83-1	Isobutyl alcohol	42	U
79-01-6	Trichloroethene	3.7	D
78-87-5	1,2-Dichloropropane	0.81	DJ

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-05D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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	0.84	U
80-62-6	Methylmethacrylate	8.4	U
75-27-4	Bromodichloromethane	0.84	U
10061-01-5	cis-1,3-Dichloropropene	0.84	U
108-10-1	4-Methyl-2-pentanone	4.2	U
108-88-3	Toluene	0.14	DBJ
10061-02-6	trans-1,3-Dichloropropene	0.84	U
79-00-5	1,1,2-Trichloroethane	0.84	U
97-63-2	Ethylmethacrylate	8.4	U
127-18-4	Tetrachloroethene	2.8	D
142-28-9	1,3-Dichloropropane	0.84	U
591-78-6	2-hexanone	4.2	U
124-48-1	Dibromochloromethane	0.84	U
108-90-7	Chlorobenzene	0.22	DJ
630-20-6	1,1,1,2-Tetrachloroethane	0.84	U
100-41-4	Ethylbenzene	0.84	U
108-38-3	m,p-Xylene	1.7	U
95-47-6	o-Xylene	0.84	U
100-42-5	Styrene	0.84	U
75-25-2	Bromoform	0.84	U
96-18-4	1,2,3-Trichloropropane	0.84	U
79-34-5	1,1,2,2-Tetrachloroethane	0.84	U
110-57-6	trans-1,4-dichloro-2-butene	3.3	U
541-73-1	1,3-Dichlorobenzene	0.84	U
106-46-7	1,4-Dichlorobenzene	1.4	D
95-50-1	1,2-Dichlorobenzene	0.14	DJ
120-82-1	1,2,4-Trichlorobenzene	0.84	U
87-68-3	Hexachlorobutadiene	0.84	U
91-20-3	Naphthalene	0.84	U
1330-20-7	Xylene (total)	0.84	U
126-99-8	Chloroprene	0.84	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-06

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-06R71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.038	J
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	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	1.0	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.9	
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	0.059	J
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	0.43	J
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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-06

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-06R71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.050	JB
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	1.5	
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	0.16	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-2

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0271

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.55	
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	86	E
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	1.3	JB
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	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	51	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	0.26	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	0.059	J
71-55-6	1,1,1-Trichloroethane	330	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	0.54	
78-87-5	1,2-Dichloropropane	0.50	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0271

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.054	JB
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.092	J
97-63-2	Ethylmethacrylate	5.0	U
127-18-4	Tetrachloroethene	4.8	
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	0.50	U
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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-02D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 16.7

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	8.3	U
74-87-3	Chloromethane	8.3	U
75-01-4	Vinyl Chloride	8.3	U
74-83-9	Bromomethane	8.3	U
75-00-3	Chloroethane	8.3	U
75-69-4	Trichlorofluoromethane	8.3	U
107-02-8	Acrolein	83	U
75-35-4	1,1-Dichloroethene	89	D
74-88-4	Iodomethane	8.3	U
75-15-0	Carbon disulfide	8.3	U
67-64-1	Acetone	42	U
107-05-1	3-Chloropropene	8.3	U
75-05-8	Acetonitrile	8.3	U
75-09-2	Methylene Chloride	1.2	DBJ
156-60-5	trans-1,2-Dichloroethene	8.3	U
107-13-1	Acrylonitrile	83	U
75-34-3	1,1-Dichloroethane	56	D
108-05-4	Vinyl acetate	17	U
594-20-7	2,2-Dichloropropane	8.3	U
156-59-2	cis-1,2-Dichloroethene	0.60	DJ
78-93-3	2-butanone	42	U
107-12-0	Propionitrile	420	U
74-97-5	Bromochloromethane	8.3	U
126-98-7	Methacrylonitrile	83	U
67-66-3	Chloroform	8.3	U
71-55-6	1,1,1-Trichloroethane	470	D
56-23-5	Carbon Tetrachloride	8.3	U
563-58-6	1,1-dichloropropene	8.3	U
71-43-2	Benzene	8.3	U
107-06-2	1,2-Dichloroethane	8.3	U
78-83-1	Isobutyl alcohol	420	U
79-01-6	Trichloroethene	8.3	U
78-87-5	1,2-Dichloropropane	8.3	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-02D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 16.7

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	8.3	U
80-62-6	Methylmethacrylate	83	U
75-27-4	Bromodichloromethane	8.3	U
10061-01-5	cis-1,3-Dichloropropene	8.3	U
108-10-1	4-Methyl-2-pentanone	42	U
108-88-3	Toluene	1.1	DBJ
10061-02-6	trans-1,3-Dichloropropene	8.3	U
79-00-5	1,1,2-Trichloroethane	8.3	U
97-63-2	Ethylmethacrylate	83	U
127-18-4	Tetrachloroethene	0.0	DJ
142-28-9	1,3-Dichloropropane	8.3	U
591-78-6	2-hexanone	42	U
124-48-1	Dibromochloromethane	8.3	U
108-90-7	Chlorobenzene	8.3	U
630-20-6	1,1,1,2-Tetrachloroethane	8.3	U
100-41-4	Ethylbenzene	8.3	U
108-38-3	m,p-Xylene	17	U
95-47-6	o-Xylene	8.3	U
100-42-5	Styrene	8.3	U
75-25-2	Bromoform	8.3	U
96-18-4	1,2,3-Trichloropropane	8.3	U
79-34-5	1,1,2,2-Tetrachloroethane	8.3	U
110-57-6	trans-1,4-dichloro-2-butene	33	U
541-73-1	1,3-Dichlorobenzene	8.3	U
106-46-7	1,4-Dichlorobenzene	8.3	U
95-50-1	1,2-Dichlorobenzene	8.3	U
120-82-1	1,2,4-Trichlorobenzene	8.3	U
87-68-3	Hexachlorobutadiene	8.3	U
91-20-3	Naphthalene	8.3	U
1330-20-7	Xylene (total)	8.3	U
126-99-8	Chloroprene	8.3	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-01

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.23	J
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	2.6	
75-69-4	Trichlorofluoromethane	0.50	U
107-02-8	Acrolein	5.0	U
75-35-4	1,1-Dichloroethene	0.072	J
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	2.5	U
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.21	JB
156-60-5	trans-1,2-Dichloroethene	0.29	J
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	7.8	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	21	
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	0.11	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	2.3	
78-87-5	1,2-Dichloropropane	0.31	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-01

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.081	JB
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	0.13	J
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	0.23	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-3MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MS171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.6	
74-87-3	Chloromethane	6.6	
75-01-4	Vinyl Chloride	7.2	
74-83-9	Bromomethane	3.2	
75-00-3	Chloroethane	7.7	
75-69-4	Trichlorofluoromethane	5.9	
107-02-8	Acrolein	60	
75-35-4	1,1-Dichloroethene	5.6	
74-88-4	Iodomethane	6.6	
75-15-0	Carbon disulfide	5.8	
67-64-1	Acetone	33	B
107-05-1	3-Chloropropene	8.1	
75-05-8	Acetonitrile	7.9	
75-09-2	Methylene Chloride	5.9	B
156-60-5	trans-1,2-Dichloroethene	6.0	
107-13-1	Acrylonitrile	61	
75-34-3	1,1-Dichloroethane	14	
108-05-4	Vinyl acetate	12	
594-20-7	2,2-Dichloropropane	5.7	
156-59-2	cis-1,2-Dichloroethene	26	
78-93-3	2-butanone	36	
107-12-0	Propionitrile	310	
74-97-5	Bromochloromethane	5.5	
126-98-7	Methacrylonitrile	69	
67-66-3	Chloroform	6.0	
71-55-6	1,1,1-Trichloroethane	5.5	
56-23-5	Carbon Tetrachloride	5.1	
563-58-6	1,1-dichloropropene	5.5	
71-43-2	Benzene	5.7	
107-06-2	1,2-Dichloroethane	5.6	
78-83-1	Isobutyl alcohol	350	
79-01-6	Trichloroethene	7.2	
78-87-5	1,2-Dichloropropane	6.4	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MS171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	58	
75-27-4	Bromodichloromethane	5.7	
10061-01-5	cis-1,3-Dichloropropene	5.4	
108-10-1	4-Methyl-2-pentanone	30	
108-88-3	Toluene	4.8	B
10061-02-6	trans-1,3-Dichloropropene	4.7	
79-00-5	1,1,2-Trichloroethane	4.7	
97-63-2	Ethylmethacrylate	50	
127-18-4	Tetrachloroethene	5.1	
142-28-9	1,3-Dichloropropane	4.9	
591-78-6	2-hexanone	31	
124-48-1	Dibromochloromethane	4.0	
108-90-7	Chlorobenzene	4.4	
630-20-6	1,1,1,2-Tetrachloroethane	4.2	
100-41-4	Ethylbenzene	4.4	
108-38-3	m,p-Xylene	9.2	
95-47-6	o-Xylene	4.6	
100-42-5	Styrene	4.4	
75-25-2	Bromoform	4.1	
96-18-4	1,2,3-Trichloropropane	4.4	
79-34-5	1,1,2,2-Tetrachloroethane	4.7	
110-57-6	trans-1,4-dichloro-2-butene	21	
541-73-1	1,3-Dichlorobenzene	3.9	
106-46-7	1,4-Dichlorobenzene	4.1	
95-50-1	1,2-Dichlorobenzene	4.2	
120-82-1	1,2,4-Trichlorobenzene	3.9	
87-68-3	Hexachlorobutadiene	3.8	
91-20-3	Naphthalene	3.9	B
1330-20-7	Xylene (total)	14	
126-99-8	Chloroprene	6.5	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MSD1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MSD171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.9	
74-87-3	Chloromethane	7.6	
75-01-4	Vinyl Chloride	8.0	
74-83-9	Bromomethane	3.9	
75-00-3	Chloroethane	7.8	
75-69-4	Trichlorofluoromethane	6.0	
107-02-8	Acrolein	65	
75-35-4	1,1-Dichloroethene	5.8	
74-88-4	Iodomethane	7.6	
75-15-0	Carbon disulfide	5.8	
67-64-1	Acetone	36	B
107-05-1	3-Chloropropene	8.2	
75-05-8	Acetonitrile	8.0	
75-09-2	Methylene Chloride	6.1	B
156-60-5	trans-1,2-Dichloroethene	5.9	
107-13-1	Acrylonitrile	67	
75-34-3	1,1-Dichloroethane	14	
108-05-4	Vinyl acetate	13	
594-20-7	2,2-Dichloropropane	5.5	
156-59-2	cis-1,2-Dichloroethene	26	
78-93-3	2-butanone	38	
107-12-0	Propionitrile	340	
74-97-5	Bromochloromethane	5.9	
126-98-7	Methacrylonitrile	73	
67-66-3	Chloroform	6.0	
71-55-6	1,1,1-Trichloroethane	5.5	
56-23-5	Carbon Tetrachloride	5.1	
563-58-6	1,1-dichloropropene	5.6	
71-43-2	Benzene	5.9	
107-06-2	1,2-Dichloroethane	5.7	
78-83-1	Isobutyl alcohol	400	
79-01-6	Trichloroethene	7.2	
78-87-5	1,2-Dichloropropane	6.5	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MSD1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MSD171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	5.0	
80-62-6	Methylmethacrylate	63	
75-27-4	Bromodichloromethane	5.9	
10061-01-5	cis-1,3-Dichloropropene	5.9	
108-10-1	4-Methyl-2-pentanone	33	
108-88-3	Toluene	5.0	B
10061-02-6	trans-1,3-Dichloropropene	4.9	
79-00-5	1,1,2-Trichloroethane	5.0	
97-63-2	Ethylmethacrylate	55	
127-18-4	Tetrachloroethene	5.1	
142-28-9	1,3-Dichloropropane	5.2	
591-78-6	2-hexanone	36	
124-48-1	Dibromochloromethane	4.4	
108-90-7	Chlorobenzene	4.7	
630-20-6	1,1,1,2-Tetrachloroethane	4.7	
100-41-4	Ethylbenzene	4.8	
108-38-3	m,p-Xylene	9.7	
95-47-6	o-Xylene	4.9	
100-42-5	Styrene	4.7	
75-25-2	Bromoform	4.5	
96-18-4	1,2,3-Trichloropropane	4.8	
79-34-5	1,1,2,2-Tetrachloroethane	4.9	
110-57-6	trans-1,4-dichloro-2-butene	22	
541-73-1	1,3-Dichlorobenzene	4.2	
106-46-7	1,4-Dichlorobenzene	4.3	
95-50-1	1,2-Dichlorobenzene	4.4	
120-82-1	1,2,4-Trichlorobenzene	4.2	
87-68-3	Hexachlorobutadiene	4.2	
91-20-3	Naphthalene	4.5	B
1330-20-7	Xylene (total)	15	
126-99-8	Chloroprene	6.4	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-03

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0371

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	2.4	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.047	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	0.057	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	0.50	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	0.10	J
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.

MW-8

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-03

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0371

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.060	JB
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	0.50	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-04

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0471

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	1.9	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	3.8	
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	0.98	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.47	JB
156-60-5	trans-1,2-Dichloroethene	0.34	J
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	13	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	8.2	
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	3.0	
107-06-2	1,2-Dichloroethane	0.065	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	1.2	
78-87-5	1,2-Dichloropropane	0.28	J

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-04

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0471

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.10	JB
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	0.36	J
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	0.41	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	2.0	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	1.2	
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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-07

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0771

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	1.3	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.50	U
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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-07

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0771

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.065	JB
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	0.50	U
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-1

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-01

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0191.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: S-1

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-01

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0191.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-2

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-02

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0291.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	16	
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	2.0	J
156-59-2	cis-1,2-Dichloroethene	0.96	J
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	1.1	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	0.58	J
106-46-7	1,4-Dichlorobenzene	2.2	J

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-2

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-02

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0291.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.57	6.0	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-3

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-03

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0391.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-3

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-03

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0391.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-4

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-04

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0491.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	2.2	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	1.4	J
156-59-2	cis-1,2-Dichloroethene	3.4	J
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	0.52	J
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-4

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-04

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0491.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-5

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-05

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0591.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. _____ Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.43	J
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	0.71	J
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-5

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-05

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0591.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-6

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0691.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-6

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0691.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
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24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TRIP BLANK

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0791.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TRIP BLANK

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0791.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Lancaster Laboratories

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

March 31, 2010

Project: Watauga County, NC

Samples arrived at the laboratory on Friday, March 19, 2010. The group number for this submittal is 1186836.

Client Sample Description	Lancaster Labs (LLI) #
RES-1 Grab Water Sample	5932646
H&G Produce Grab Water Sample	5932647
RES-15 Grab Water Sample	5932648
RES-16 Grab Water Sample	5932649
BREMCO Grab Water Sample	5932650
RES-2 Grab Water Sample	5932651
Trip Blank Water Sample	5932652

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Draper Aden Associates, Inc.	Attn: Janet Frazier
1 COPY TO	Data Package Group	

NAT11 0009

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

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

Respectfully Submitted,

Marla S. Lord
Senior Specialist

WAT11 0010

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit
N.D.	none detected
TNTC	Too Numerous To Count
IU	International Units
umhos/cm	micromhos/cm
C	degrees Celsius
meq	milliequivalents
g	gram(s)
ug	microgram(s)
ml	milliliter(s)
m3	cubic meter(s)

BMQL	Below Minimum Quantitation Level
MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units
NTU	nephelometric turbidity units
ng	nanogram(s)
F	degrees Fahrenheit
lb.	pound(s)
kg	kilogram(s)
mg	milligram(s)
l	liter(s)
ul	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

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. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

WHITE 9811

Lancaster Laboratories

Sample Description: RES-1 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932646
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:15 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES1 SDG#: WAT11-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 0012

*=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 Description: RES-1 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932646
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:15 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES1 SDG#: WAT11-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 18:04	Jason M Long	1

WAT11 0013

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

Lancaster Laboratories

Sample Description: H&G Produce Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932647
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:10 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WHGPR SDG#: WAT11-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 0814

*=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 Description: H&G Produce Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932647
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:10 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WHGPR SDG#: WAT11-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 18:26	Jason M Long	1

WAT11 0015

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

Lancaster Laboratories

Sample Description: RES-15 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932648
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:40 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE15 SDG#: WAT11-03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	N.D.		0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.		0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.2	J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1

WAT11 0816

*=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 Description: RES-15 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932648
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:40 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE15 SDG#: WAT11-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 18:47	Jason M Long	1

WAT11 0017

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

Analysis Report

Lancaster Laboratories

Sample Description: RES-16 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932649
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:25 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE16 SDG#: WAT11-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		**ug/l**		**ug/l**	**ug/l**	
03648	Benzene	71-43-2	N.D.		0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.		0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	0.3	J	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.1	J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1

WAT11 0810

*=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 Description: RES-16 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932649
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:25 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE16 SDG#: WAT11-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 19:09	Jason M Long	1

WAT11 0019

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

Analysis Report

Lancaster Laboratories

Sample Description: BREMCO Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932650
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:50 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WBREM SDG#: WAT11-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	0.5	J	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	0.2	J	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	0.3	J	0.1	0.5	1
03648	Chloroethane	75-00-3	11		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	2.3		0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	0.9		0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	28		1.0	5.0	10
03648	1,2-Dichloroethane	107-06-2	0.2	J	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	1.4		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	6.2		0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	0.2	J	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	0.2	J	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	1.5		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.4	J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1

WAT11 0026

*=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 Description: BREMCO Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932650
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:50 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WBREM SDG#: WAT11-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
03648	Trichloroethene	79-01-6	0.9		0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.		0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.		0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
03648	Vinyl Chloride	75-01-4	0.5	J	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.		0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.		0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 19:30	Jason M Long	1
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 19:52	Jason M Long	10

WAT11 0021

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

Lancaster Laboratories

Sample Description: RES-2 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932651
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:30 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES2 SDG#: WAT11-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	1	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 0822

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

Lancaster Laboratories, Inc.
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Lancaster Laboratories

Sample Description: RES-2 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932651
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:30 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES2 SDG#: WAT11-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 20:13	Jason M Long	1

WAT11 0023

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Lancaster Laboratories

Sample Description: Trip Blank Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932652
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 02/03/2010

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WCLTB SDG#: WAT11-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 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 Description: Trip Blank Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932652
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 02/03/2010

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WCLTB SDG#: WAT11-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 20:35	Jason M Long	1

WAT11 0825

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

USEPA CLP SOW SOM01.2 - VOLATILE ORGANIC ANALYSIS (VOA) DATA VALIDATION SUMMARY

Draper Aden Associates performed a limited review of the analytical results for the March 17-18, 2010 groundwater monitoring event at the Watauga County Landfill, Facility ID 95-02. Draper Aden Associates collected samples from surface water locations S-1, S-2, S-3, S-4, S-5 and S-6. 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. Samples were analyzed in general accordance with the requirements of the USEPA CLP Statement of Work (SOW) document number SOM01.2. 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 April 13, 2010.

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 0.4°C. The samples were not frozen and were received at less than 6°C. As per SW-846 and 40 CFR Part 136, no data qualification was required due to the sample receipt temperature.

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. Deviations from specific QA/QC criteria that were identified during the data review process are summarized below.

Chloroethane was detected above the CRQL in sample S-2. Several target analytes were detected below the CRQL in samples S-2, S-4 and S-5. No other target analytes were detected in any sample. Except where noted above, 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: MS/MSD (batch), Trip blank, Lab blanks, LCSs
Laboratory: CompuChem, a Division of Liberty Analytical Corp, Cary, NC, SDG 1003175

- Were the samples analyzed under CLP SOW for organic analysis and did the analyte list include dichlorodifluoromethane? ☑ YES ☐ NO

Comment: Samples were analyzed under CLP protocol (SOM01.2). 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-dichlroethene, 1,2-dichloeopropane, 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 every 12 hours with the injection of bromofluorobenzene (BFB) solution or using a continuing calibration verification (CCV) that meets opening CCV criteria analyzed within the 12-hour window? ☑ YES ☐ NO
2. Was there documentation of the injection of a 50 ng BFB solution? ☑ YES ☐ NO
3. Were the 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 check? ☑ YES ☐ NO

1. CLP Validation Criteria:

* Did the ICAL contain the target analytes and Deuterated Monitoring Compounds (DMCs) at the required concentrations? ☑ YES ☐ NO
* Were quantitation ions randomly checked against the primary quantitation ions required by the method? ☑ YES ☐ NO
* Were the RRFs calculated based on the internal standard associated

with that analyte as listed in the method? ☑ YES ☐ NO

* Did the target analytes, except those listed in Table 15, have RRFs ≥ 0.05 and %RSDs ≤ 20.0%? ☑ YES ☐ NO
* Did the target analytes listed in Table 15 and the DMCs have RRFs ≥ 0.01 and %RSDs ≤ 40.0%? ☑ YES ☐ NO

If not, list compounds which exceed criteria:

* Were 10% of the target analytes recalculated? ☑ YES ☐ NO

2. ***CLP Contractual Requirements:***
   * Refer to Table 5 of SOMO2.1 and evaluate the relative response factors and % RSD results for method compliance.
   * Did ICAL meet the CLP initial calibration criteria? ☑ YES ☐ NO
   * If not, explain:

Comment: Initial calibration criteria were met.

D. CONTINUING CALIBRATION VERIFICATION (CCV) CRITERIA:

* Opening and closing CCV standard contains target analytes and DMCs
* Were CCVs analyzed at the beginning and end of each 12 hour period? The opening CCV may be part of the ICAL or run independently on another 12 hour analysis period. ☑ YES ☐ NO

1. ***CLP Validation Criteria:***
   * Opening CCV-Did the target analytes, except those listed in Table 15, have RRFs ≥ 0.05 and %Ds within ±25.0%? ☑ YES ☐ NO

   If not, list compounds which exceed criteria:

   * Opening CCV-Did the target analytes listed in Table 15 and the system monitoring compounds have RRFs ≥ 0.01 and %Ds ±40.0%? ☑ YES ☐ NO

   If not, list compounds which exceed criteria:

   * Closing CCV- %Ds within ±50.0%? ☑ YES ☐ NO

   If not, list compounds which exceed criteria:

   * Were 10% of the target analytes recalculated? ☑ YES ☐ NO
2. ***CLP Contractual Requirements:***
   * Evaluate RRFs and %D results based on Table 5 of SOM01.2
   * Did CCV meet CLP continuing calibration verification 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 storage blank prepared upon sample receipt of sample delivery group (SDG) and analyzed with samples. ☑ YES ☐ NO
3. Was a blank also analyzed after highly contaminated samples to prevent carry over contamination? ☑ NA ☐ YES ☐ NO
4. Was a trip blank analyzed with this sample batch? ☑ YES ☐ NO

5. Were the trip blanks and method blanks interference free? ☑ YES ☐ NO
6. Were any target analytes detected in other associated blanks? ☐ YES ☑ NO
7. List target analytes detected in the blanks: *none*

Comment: Blank criteria were met.

F. SYSTEM MONITORING (SURROGATE) COMPOUNDS CRITERIA:

CLP Performance Criteria:

1. Were fourteen deuterated monitoring compounds (DMC) added to the samples and blanks just prior to purging to measure their recoveries? ☑ YES ☐ NO
2. Were recoveries for the following analytes within the limits? ☑ YES ☐ NO

DMC	Recovery Limits (%) for Water Samples
Vinyl chloride-d_3	65 - 131
Chloroethane-d_5	71 - 131
1,1-Dichloroethene-d_2	55 - 104
2-Butanone-d_5	49 - 155
Chloroform-d	78 - 121
1,2-Dichloroethane-d_4	78 - 129
Benzene-d_6	77 - 124
1,2-Dichloropropane-d_6	79 - 124
Toluene-d_8	77 - 121
trans-1,3-Dichloropropene-d_4	73 - 121
2-Hexanone-d_5	28 - 135
1,4-Dioxane-d_8	50 - 150
1,1,2,2-Tetrachloroethane-d_2	73 - 125
1,2-Dichlorobenzene-d_4	80 - 131

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

Compound	*% R-Water*	*% RPD Water*
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? ☑ NA ☐ YES ☐ NO

Comment: MS/MSD was not analyzed with this SDG and no data qualifications were needed.

H. INTERNAL STANDARDS CRITERIA:

1. Were internal standard (IS) areas -50% to 200% of the CCV? ☑ YES ☐ NO
2. Were the IS retention times within ± 30 seconds of the last CCV? ☑ YES ☐ NO
3. Were the following IS used? ☑ YES ☐ NO
   * 1,4-difluorobenzene
   * chlorobenzene-d_5
   * 1,4-dichlorobenzene-d_4

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 the 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 the reported analytes confirmed? ☑ YES ☐ NO
4. Were the 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-1, S-2, S-3, S-4 and S-5.

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. Chloroethane was detected above the CRQL in sample S-2. Several target analytes were detected below the CRQL in samples S-2, S-4 and S-5. 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 SOM01.2. Data was evaluated using the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).* 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 Superfund Organic Methods Data Review (June 2008).* Validation of this data set is limited to 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. Draper Aden Associates' liability, hereunder, shall be limited to amounts due Draper Aden Associates for services actually rendered, or reimbursable expenses actually incurred.

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Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

This Report has been prepared by:

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Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acrolein	MW-12	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Benzene	MW-12	0.23	J	0.23	J	0.5	1	Result < LOQ.
Chlorobenzene	MW-12	0.23	J	0.23	J	0.5	1	Result < LOQ.
Chloroethane	MW-12	6.5		6.5		0.5	1	No action taken.
Chloroform	MW-12	0.29	J	0.29	J	0.5	1	Result < LOQ.
1,2-Dichlorobenzene	MW-12	0.15	J	0.15	J	0.5	1	Result < LOQ.
1,4-Dichlorobenzene	MW-12	1.5		1.5		0.5	1	No action taken.
Dichlorodifluoromethane	MW-12	0.14	J	0.14	J	0.5	1	Result < LOQ. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-12	19		19		0.5	1	No action taken.
1,2-Dichloroethane	MW-12	0.4	J	0.4	J	0.5	1	Result < LOQ.
1,1-Dichloroethene	MW-12	0.27	J	0.27	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-12	41		41		0.5	1.7	No action taken.
trans-1,2-Dichloroethene	MW-12	0.54		0.54		0.5	1	No action taken.
1,2-Dichloropropane	MW-12	0.77		0.77		0.5	1	No action taken.
Bromomethane	MW-12	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-12	0.34	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Tetrachloroethene	MW-12	2.8		2.8		0.5	1	No action taken.
Toluene	MW-12	0.056	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
1,1,1-Trichloroethane	MW-12	0.082	J	0.082	J	0.5	1	Result < LOQ.
Trichloroethene	MW-12	3.9		3.9		0.5	1	No action taken.
Vinyl chloride	MW-12	1.7		1.7	J	0.5	1	LCS/MSD recovered high (149/156%).

Definitions: **LOQ** Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
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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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acetone	MW-17	1.7	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-17	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Chloroform	MW-17	0.059	J	0.059	J	0.5	1	Result < LOQ.
Dichlorodifluoromethane	MW-17	0.038	J	0.038	J	0.5	1	Result < LOQ. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-17	1		1		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-17	1.9		1.9		0.5	1	No action taken.
Bromomethane	MW-17	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Naphthalene	MW-17	0.16	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.18 ug/l).
Tetrachloroethene	MW-17	1.5		1.5		0.5	1	No action taken.
Toluene	MW-17	0.05	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
Trichloroethene	MW-17	0.43	J	0.43	J	0.5	1	Result < LOQ.

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Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

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Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acetone	MW-2	1.3	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.13 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-2	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Chloroform	MW-2	0.059	J	0.059	J	0.5	1	Result < LOQ.
Dichlorodifluoromethane	MW-2	0.5	U	U	J	0.5	1	Analyte not detected. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-2	56		56		0.5	16.7	No action taken.
1,1-Dichloroethene	MW-2	89		89		0.5	16.7	No action taken.
cis-1,2-Dichloroethene	MW-2	0.26	J	0.26	J	0.5	1	Result < LOQ.
Bromomethane	MW-2	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-2	0.38	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Tetrachloroethene	MW-2	4.8		4.8		0.5	1	No action taken.
Toluene	MW-2	0.054	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
1,1,1-Trichloroethane	MW-2	470		470		0.5	16.7	No action taken.
1,1,2-Trichloroethane	MW-2	0.092	J	0.092	J	0.5	1	Result < LOQ.
Trichloroethene	MW-2	0.54		0.54		0.5	1	No action taken.
Vinyl chloride	MW-2	0.55		0.55	J	0.5	1	LCS/MSD recovered high (149/156%).

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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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

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Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acrolein	MW-3	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Chloroethane	MW-3	2.6		2.6		0.5	1	No action taken.
Dichlorodifluoromethane	MW-3	0.5	U	U	J	0.5	1	Analyte not detected. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-3	7.8		7.8		0.5	1	No action taken.
1,2-Dichloroethane	MW-3	0.11	J	0.11	J	0.5	1	Result < LOQ.
1,1-Dichloroethene	MW-3	0.072	J	0.072	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-3	21		21		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-3	0.29	J	0.29	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-3	0.31	J	0.31	J	0.5	1	Result < LOQ.
Bromomethane	MW-3	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-3	0.21	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Naphthalene	MW-3	0.23	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.18 ug/l).
Tetrachloroethene	MW-3	0.13	J	0.13	J	0.5	1	Result < LOQ.
Toluene	MW-3	0.081	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
Trichloroethene	MW-3	2.3		2.3		0.5	1	No action taken.
Vinyl chloride	MW-3	0.23	J	0.23	J	0.5	1	Result < LOQ. LCS/MSD recovered high (149/156%).
Method: *8260B*								
Acetone	MW-8	2.4	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-8	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Dichlorodifluoromethane	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-8	0.057	J	0.057	J	0.5	1	Result < LOQ.
Bromomethane	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-8	0.047	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Toluene	MW-8	0.06	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
1,1,1-Trichloroethane	MW-8	0.1	J	0.1	J	0.5	1	Result < LOQ.

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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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acetone	MW-9	0.98	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-9	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Benzene	MW-9	3		3		0.5	1	No action taken.
Chlorobenzene	MW-9	0.41	J	0.41	J	0.5	1	Result < LOQ.
Chloroethane	MW-9	3.8		3.8		0.5	1	No action taken.
1,4-Dichlorobenzene	MW-9	1.2		1.2		0.5	1	No action taken.
Dichlorodifluoromethane	MW-9	0.43	J	0.43	J	0.5	1	Result < LOQ. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-9	13		13		0.5	1	No action taken.
1,2-Dichloroethane	MW-9	0.065	J	0.065	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-9	8.2		8.2		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-9	0.34	J	0.34	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-9	0.28	J	0.28	J	0.5	1	Result < LOQ.Result < LOQ.
Bromomethane	MW-9	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-9	0.47	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Tetrachloroethene	MW-9	0.36	J	0.36	J	0.5	1	Result < LOQ.
Toluene	MW-9	0.1	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
Trichloroethene	MW-9	1.2		1.2		0.5	1	No action taken.
Vinyl chloride	MW-9	1.9		1.9	J	0.5	1	LCS/MSD recovered high (149/156%).
Method: *SOM01.2*								
Benzene	S-2	1.1	J	1.1	J	5	1	Result < CRQL.
Chlorobenzene	S-2	0.58	J	0.58	J	5	1	Result < CRQL.
Chloroethane	S-2	16		16		5	1	No action taken.
1,4-Dichlorobenzene	S-2	2.2	J	2.2	J	5	1	Result < CRQL.
1,1-Dichloroethane	S-2	2	J	2	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-2	0.96	J	0.96	J	5	1	Result < CRQL.

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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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
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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
Laboratory: CompuChem, Cary, NC								
Method: *SOM01.2*								
1,1-Dichloroethane	S-4	1.4	J	1.4	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-4	3.4	J	3.4	J	5	1	Result < CRQL.
Methylene chloride	S-4	2.2	J	2.2	J	5	1	Result < CRQL.
Trichloroethene	S-4	0.52	J	0.52	J	5	1	Result < CRQL.
Method: *SOM01.2*								
Dichlorodifluoromethane	S-5	0.43	J	0.43	J	5	1	Result < CRQL.
Methylene chloride	S-5	1.5	J	1.5	J	5	1	Result < CRQL.
1,1,1-Trichloroethane	S-5	0.71	J	0.71	J	5	1	Result < CRQL.
Method: *8260B*								
Acetone	TRIP BLANK	1.3	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.13 ug/l) and method blank (0.78 ug/l).
Toluene	TRIP BLANK	0.065	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).

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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

CLP INORGANIC DATA REVIEW SUMMARY

Draper Aden Associates performed a limited review of the analytical results for the March 17-18, 2010 groundwater monitoring event at the Watauga County Landfill, Facility ID 95-02. The sample locations MW-2, MW-3, MW-8, MW-9, MW-12 and MW-17 were analyzed for six inorganic target parameters: barium, chromium, cobalt, iron, nickel and vanadium by USEPA Contract Laboratory Program (CLP) Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP) Method ILM05.4. 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, a Division of Liberty Analytical Corporation (CompuChem), of Cary, North Carolina, performed the inorganic analyses. The analyses were performed in accordance with USEPA CLP Statement of Work ILM05.4.

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, blank samples analyses (method and calibration blanks), interference check sample results, matrix spike/matrix spike duplicate (MS/MSD) or sample duplicate, laboratory control sample (LCS), serial dilution criteria, IDL/CRQL 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 instrument analytical data, chain of custody and preparation logs.

The original certificate of analysis was received April 13, 2010. 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 ILM05.4

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 quantitation limit (CRQL) for each target parameter. CRQLs 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. CRQL standards, blank samples, interference check samples, pre-digestion MS and sample duplicate, LCS 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.

The MS recovered low in sample MW-3 for iron (47%). A post-digestion spike was not performed on sample MW-3. The relative percent difference (RPD) between the sample and duplicate for MW-3 was greater than 20% (21%) and all iron results were considered estimated and qualified as "J" to note this QC deficiency.

The % difference (%D) between the sample and serial dilution results were greater than 10% for barium and iron and all result for barium and iron were qualified as estimated and qualified as "J" to note this QC deficiency.

Sample results greater than the CRQL 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 CRQL were qualified as estimated and flagged "J."

INORGANIC DATA EVALUATION FOR CLP-ICP METHOD, ILM05.4

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, Cary, NC; SDG 1003173

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 CRQLs for all target analytes, except where noted below
- √ CRQL standard 70-130%, concentration 2 X CRQL, 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/ HNO_3

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 ± 20% for sample values greater than 5 X CRQL

√ {sample ± CRQL} when values are less than 5 X CRQL

H. MATRIX SPIKE (MS) SAMPLE CRITERIA:

√ %R within 75-125% range

I. LABORATORY CONTROL SAMPLE (LCS) 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

√ Results reported to detection limit (<CRQL)

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 and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010, where applicable). Validation of this data set was limited to review of 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.

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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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Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

This Report has been prepared by:

Kathy Olsen 5/4/10

Kathy Olsen, Environmental Scientist
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, kolsen@daa.com, www.daa.com

Date:

This Report has been subjected to technical and quality review by:

6/24/10

Janet C. Frazier, Project Manager
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, jfrazier@daa.com, www.daa.com

Date:

Data Validation Report for Inorganics Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		CRQL (ug/L)	Validation Notes
Method: ILM05.4							
Laboratory: CompuChem, Cary, NC							
BARIUM	MW-2	304		304	J	200	Serial dilution %D > 10.
	MW-3	128	B	128	J	200	Result < CRDL. Serial dilution %D > 10.
	MW-8	232		232	J	200	Serial dilution %D > 10.
	MW-9	604		604	J	200	Serial dilution %D > 10.
	MW-12	330		330	J	200	Serial dilution %D > 10.
	MW-17	521		521	J	200	Serial dilution %D > 10.
CHROMIUM	MW-8	30		30		10	No action taken.
COBALT	MW-8	9.3	B	9.3	J	50	Result < CRDL.
	MW-9	6.8	B	6.8	J	50	Result < CRDL.
	MW-17	3.7	B	3.7	J	50	Result < CRDL.
IRON	MW-2	1600		1600	J	100	Serial dilution %D > 10. Matrix spike recovered low (47%). Duplicate RPD > 20.
	MW-3	1860		1860	J	100	Serial dilution %D > 10. Matrix spike recovered low (47%). Duplicate RPD > 20.
	MW-8	9620		9620	J	100	Serial dilution %D > 10. Matrix spike recovered low (47%). Duplicate RPD > 20.
	MW-9	67.8	B	67.8	J	100	Result < CRDL. Serial dilution %D > 10. Matrix spike recovered low (47%). Duplicate RPD > 20.
	MW-12	100	U	U	J	100	Analyte not detected. Serial dilution %D > 10. Matrix spike recovered low (47%). Duplicate RPD > 20.
	MW-17	455		455	J	100	Serial dilution %D > 10. Matrix spike recovered low (47%). Duplicate RPD > 20.
NICKEL	MW-2	2.8	B	2.8	J	40	Result < CRDL.
	MW-3	3.3	B	3.3	J	40	Result < CRDL.
	MW-8	14.1	B	14.1	J	40	Result < CRDL.
	MW-12	3.4	B	3.4	J	40	Result < CRDL.
	MW-17	4.1	B	4.1	J	40	Result < CRDL.
VANADIUM	MW-2	3.9	B	3.9	J	50	Result < CRDL.
	MW-3	4.6	B	4.6	J	50	Result < CRDL.
	MW-8	19.5	B	19.5	J	50	Result < CRDL.
	MW-12	0.9	B	0.9	J	50	Result < CRDL.
	MW-17	1.1	B	1.1	J	50	Result < CRDL.

Definitions: **CRDL** Denotes contract required detection limit. **B** Denotes result < CRQL, 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.

4/8/2010

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 1003173

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 _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: DRAPER
Work: 1003173
Project: WATAUGA COUNTY LANDFILL 6520-39
Sdg: DRAFT 1003173

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1003173-01	MW-3	Water	3/18/10 1:40 pm	3/19/10 9:30 am
1003173-02	MW-2	Water	3/18/10 12:00 pm	3/19/10 9:30 am
1003173-03	MW-8	Water	3/18/10 11:35 am	3/19/10 9:30 am
1003173-04	MW-9	Water	3/18/10 11:15 am	3/19/10 9:30 am
1003173-05	MW-12	Water	3/18/10 2:25 pm	3/19/10 9:30 am
1003173-06	MW-17	Water	3/18/10 1:30 pm	3/19/10 9:30 am
1003173-07	TRIP BLANK	Water	2/4/10 12:00 am	3/19/10 9:30 am

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

DOCUMENT ILM05.4

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 Documentation

B. Sample Data

LAB CODE : LIBRTY

CONTRACT # : ILM05.4

CASE # : _____

SDG # : 1003173

A. Cover Documentation

1. Cover Page

2. SDG Narrative

3. Sample Log-In Sheet (Form DC-1)

4. Full Inorganic Complete SDG File (CSF) Inventory Sheet (Form DC-2)

5. Sample Traffic Reports/ Chain-Of-Custody Records

1. Cover Page

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, Non-Routine Analytical Service (NRAS) number (if appropriate), the EPA sample numbers in alphanumeric order showing the EPA sample numbers cross-referenced with Lab ID numbers, and completion of the questions on the use of background and interelement correction for the samples.

US EPA - CLP

COVER PAGE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No: _____ NRAS No.: _____ SDG No: 1003173

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
MW-12	1003173-05
MW-17	1003173-06
MW-2	1003173-02
MW-3	1003173-01
MW-3D	0032610-DUP1
MW-3S	0032610-MS1
MW-8	1003173-03
MW-9	1003173-04

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	NO
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	NO
If yes, were raw data generated before application of background corrections?	(Yes/No)	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 (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] for Susan Bass Name: Susan W Bass

Date: 4-7-10 Title: Senior Chemist

2. SDG Narrative

The SDG Narrative contains laboratory information, the Case and SDG numbers, contract number, 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. The SDG Narrative also includes a discussion of any flexibility Statement of Work (SOW) modification, including attaching a copy of the USEPA approved modification form to the SDG Narrative. 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.

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
SDG # 1003173
CONTRACT # ILM05.4

The indicated Sample Delivery Group (SDG) consisting of six (6) water samples was received on March 19, 2010. The samples were intact and in good condition with Chain of Custody (COC) Records. The samples temperature was 0.4 degrees Celsius.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

MW-12, MW-17, MW-2, MW-3, MW-8, MW-9

The samples were prepared and analyzed, in accordance with EPA - CLP Statement of Work (SOW) document ILM05.4 for the requested ICP-AES metals barium, iron, chromium, cobalt, nickel, and vanadium.

EQUATIONS FOR WATER SAMPLE CALCULATIONS:

Client sample MW-3 used for illustration.

Equation for obtaining metals sample results in µg/L as presented on FORM I data sheets from ICP instrument acquired results in µg/L (ppb).

$$\frac{C \times F}{I}$$

Where

C = concentration (µg/L)

F = final volume in liters after sample preparation

I = initial volume in liters

Example: **Iron** result µg/L

$$\frac{1859.742\ \mu g/L\ (C) \times 0.05\ L\ (F)}{0.05\ L\ (I)} = 1859.7\ \mu g/L \text{ reported as } 1860\ \mu g/L$$

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV, CCV, & CRI), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The ICP sample matrix spike, CCN = 0032610-MS1 (MW-3S) was found to be inside CLP control limits except iron.

The ICP sample matrix duplicate, CCN = 0032610-DUP1 (MW-3D) was found to be inside CLP control limits except iron.

A five-fold serial dilution of sample, CCN = 1003169-01 (MW-3L) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were inside CLP control limits except barium and iron.

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
April 7, 2010

3. Sample Log-In Sheet (Form DC-1)

4. Full Inorganic Complete SDG File (CSF)Inventory Sheet (Form DC-2)

5. Sample Traffic Reports/ Chain-Of-Custody Records

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

2/01/10

Client: Watauga County, NC **Attn:** Mr. J.V. Potter **Address:** 842 West King Street?/Courthouse, Suite 1 Boone, NC 28607 **Phone:** (828) 264-5305 **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:** February 2010 Semiannual Assess. Monitoring Event **DAA JN:** 6520-39 **Lab JN:**	**Project Specific (PS) or Batch (B) QC:** ☐PS ☑B **Sample Collection for Project Complete? (See Note 1)** ☑YES ☐NO **Carrier:** **Tracking Number:**

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative
A HCL; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; 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 5: Sample Container Type
P Plastic; V VOA; AG Amber Glass; CG Clear Glass

Invoice
Copy to Consultant: ☑YES ☐NO
Bill: ☑Client ☐Consultant
Preserved and shipped on ice: ☑YES ☐NO

Sample ID	Date: 2010	Time	Box 1: Matrix	Number of Bottles	8260B 25ml purge 40ml	CLP METALS ILMO4.1 500ml latest update	JLP 2-24-10	pH metals						
Box 4 - Sample Type					G	G								
Box 3 - Filtered/Unfiltered					U	U								
Required pH of Sample					<2	<2								
Box 2 - Preservative					A	B								
Box 5 - Sample Container Type					3-40ml V	1-500ml P								
MW-2	3/18	1200	GW	4	X	X		<2						1003173-02
MW-3	3/18	1340	GW	4	X	X		<2						1003173-01
MW-3ms	3/18	1340	GW	4	X	X		<2						↓
MW-3msd	3/18	1340	GW	4	X	X		<2						↓
MW-8	3/18	1135	GW	4	X	X		<2						1003173-03
MW-9	3/18	1115	GW	4	X	X		<2						-04
MW-12	3/18	1425	GW	4	X	X		<2						-05
MW-17	3/18	1330	GW	4	X	X		<2						-06
Trip Blank	2/4		T	3	X									1003173-07

GENERAL NOTES:
1. Level 4 w/ EDD & PDF.

Clients Special Instructions: Level 4 w/ EDD & PDF

Received by lab in Good Condition ✓ Yes ___ No Custody Seal Intact ✓ Yes ___ No Temperature upon arrival 0.4°C Received on Ice ✓ Yes ___ No
Describe problems, if any: SN0015

VH 3/22/10

Sampler Name (Print): Chris Branscome	Date: 3/16/10	#1 Relinquished by (Signature): Chris Branscome	Date: 3/18/10	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Chris Branscome	Time: 2000	Company Name: Draper Aden Assoc.	Time: 1700	Company Name:	Time:	
Sampler Name (Print): Dale Slaughter	Date: 3/16/10	#1 Received by (Signature): Diane Byrd	Date: 3/19/10	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature: Dale Slaughter	Time: 2000	Company Name: Compuchem	Time: 0930	Company Name:	Time:	

OK JLP 2-24-2000

2-01-10

1/6

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

KFC – 2/19/2009
\\bbg-files\projects\admin\divisions\envr\templates\bburg eteam temp\field events\watauga\pre-event set up\2009-coremw's,surf,& res.parameterlists.doc 11/25/98 3:04 PM

49. 1,1,1,2-tetrachloroethane	630-20-6
50. 1,1,2,2-tetrachloroethane	79-34-5
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

ANALYTICAL METHOD: CLP ILMO 4.1
TYPE METHOD: CLP
CLASS: TOTAL METALS

Run for all Monitoring Wells

No.	PARAMETER	METHOD	CAS RN
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

WORK ORDER

Printed: 4/7/2010 8:34:33AM

1003173

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1003173** **CASE:**	**Status:**	**Received**

Report To:
DRAPER
JANET FRAZIER
2206 SOUTH MAIN STREET
BLACKSBURG, VA 24060
Phone: (540)552-0444
Fax: -

Invoice To:
WATAUGA COUNTY, NC
MR. J.V. POLTER
842 WESTKING STREET/COURTHOUSE, SUITE 1
BOONE, NC 28607
Phone :-
Fax: -

Date Due: 04/08/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 03/19/2010 09:30

Logged In By: Cathy Dover — Date Logged In: 03/22/2010 17:02

J & B Flags?: **YES** Metals ND to?	TICS?:**EPA-TICS** Spike Level: **FULL Spike**	Deliverable: **Style 9**	EDD : **36) DRAPER ACCESS**

USE 1003173-01 (MW-3) FOR QC VOC 8260B 25 ML LIST=PPS897O.SUB*ILM05.4 MTL=Ba,Fe,Cr,Co,Ni & V

Analysis	Due	TAT	Expires	Received	Comments
1003173-01 MW-3 [Water] Sampled 03/18/2010 13:40 Eastern					**USE FOR QC**
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 13:40	03/19/2010 09:30	
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 13:40	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 13:40	03/19/2010 09:30	
1003173-02 MW-2 [Water] Sampled 03/18/2010 12:00 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 12:00	03/19/2010 09:30	
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 12:00	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 12:00	03/19/2010 09:30	
1003173-03 MW-8 [Water] Sampled 03/18/2010 11:35 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 11:35	03/19/2010 09:30	
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 11:35	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 11:35	03/19/2010 09:30	
1003173-04 MW-9 [Water] Sampled 03/18/2010 11:15 Eastern					
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 11:15	03/19/2010 09:30	
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 11:15	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 11:15	03/19/2010 09:30	

1003173

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1003173** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires	Comments
1003173-05 MW-12 [Water] Sampled 03/18/2010 14:25 Eastern				
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 14:25	03/19/2010 09:30
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 14:25	03/19/2010 09:30
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 14:25	03/19/2010 09:30
1003173-06 MW-17 [Water] Sampled 03/18/2010 13:30 Eastern				
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 13:30	03/19/2010 09:30
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 13:30	03/19/2010 09:30
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 13:30	03/19/2010 09:30
1003173-07 TRIP BLANK [Water] Sampled 02/04/2010 00:00 Eastern				
VOA-8260B 25ML	04/08/2010 16:00	20	02/18/2010 00:00	03/19/2010 09:30

INTERNAL DIGESTION COC

0032610

COMPUCHEM

Printed: 3/26/2010 9:25:27AM

Matrix: Water **Prepared using: METALS - HW1**

Lab Number	Client ID	Sample Type	
0032610-BLK1	PBW	Blank	
0032610-BS1	LCSW	LCS	
0032610-DUP1	MW-3D	Duplicate	
0032610-MS1	MW-3S	Matrix Spike	
1003173-01	MW-3	Sample	
1003173-02	MW-2	Sample	
1003173-03	MW-8	Sample	
1003173-04	MW-9	Sample	
1003173-05	MW-12	Sample	
1003173-06	MW-17	Sample	

D. Dickens	3-27-10 2040	ICP Stg	3-27-10 2040
Relinquished By	Date	Received By	Date
ICP Storage	03.30.10 20:00 03.31.10 SGM		03.30.10 20:0 03.31.10 SGM
Relinquished By	Date	Received By	Date
[illegible]	03.31.10 9:2[illegible]	ICP Storage	03.31.10 9:2[illegible]
Relinquished By	Date	Received By	Date
		4-7-10	
Relinquished By	Date	Received By	Date

Metals Internal Chain of Custody Sheet

Batch: 0032610 **Status:** Batched **Analysis**: ILM05.4 - ICP/AES (TM)

Lab Id	Client_Id	Received	Container	Extraction	Preservative	Matrix	Due Date	Cust Date
1003173-01 J	MW-3	03/19/10	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/8/2010 4	
1003173-02 D	MW-2	03/19/10	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/8/2010 4	
1003173-03 D	MW-8	03/19/10	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/8/2010 4	
1003173-04 D	MW-9	03/19/10	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/8/2010 4	
1003173-05 D	MW-12	03/19/10	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/8/2010 4	
1003173-06 D	MW-17	03/19/10	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/8/2010 4	

Cooler 1	3-27-10 1410	D. Dickens	3-27-10 1410
Relinquished By	Date/Time	Received By	Date/Time
D. Dickens	3-27-10 1630	Cooler 1	3-27-10 1630
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	4-7-10 Received By	Date/Time

B. Sample Data

1. Results
2. Quality Control Data
3. Raw Data
4. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : ILM05.4

CASE # : _____

SDG # : 1003173

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet [Form IA – IN and Form IB – IN]. These sample packets shall be placed in increasing alphanumeric EPA sample number order, considering both letters and numbers, and shall include all the samples in the SDG.

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-05

Level (low/med): LOW Date Received: 03/19/2010

% 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	330		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7439-89-6	Iron	100	U	N*E	P
7440-02-0	Nickel	3.4	J		P
7440-62-2	Vanadium	0.90	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-06

Level (low/med): LOW Date Received: 03/19/2010

% 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	521		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	3.7	J		P
7439-89-6	Iron	455		N*E	P
7440-02-0	Nickel	4.1	J		P
7440-62-2	Vanadium	1.1	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-02

Level (low/med): LOW Date Received: 03/19/2010

% 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	304		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7439-89-6	Iron	1600		N*E	P
7440-02-0	Nickel	2.8	J		P
7440-62-2	Vanadium	3.9	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-01

Level (low/med): LOW Date Received: 03/19/2010

% 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	128	J	E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7439-89-6	Iron	1860		N*E	P
7440-02-0	Nickel	3.3	J		P
7440-62-2	Vanadium	4.6	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-03

Level (low/med): LOW Date Received: 03/19/2010

% 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	232		E	P
7440-47-3	Chromium	30.0			P
7440-48-4	Cobalt	9.3	J		P
7439-89-6	Iron	9620		N*E	P
7440-02-0	Nickel	14.1	J		P
7440-62-2	Vanadium	19.5	J		P

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Lab Sample ID: 1003173-04

Level (low/med): LOW Date Received: 03/19/2010

% 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	604		E	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	6.8	J		P
7439-89-6	Iron	67.8	J	N*E	P
7440-02-0	Nickel	40.0	U		P
7440-62-2	Vanadium	50.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

2. Quality Control (QC) Data

a. Initial and Continuing Calibration Verification
[Form IIA - IN]

b. CRQL Check Standard
[Form IIB - IN]

c. Blanks
[Form III - IN]

d. ICP-AES Interference Check Sample
[Form IVA - IN]

e. Matrix Spike Sample Recovery
[Form VA - IN]

f. Post Digest Spike Sample Recovery
[Form VB - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. ICP-AES Serial Dilutions
[Form VIII - IN]

j. Method Detection Limits (Annually)
[Form IX - IN]

k. ICP-AES Interelement Correction Factors (Quarterly)
[Form XA - IN]

l. ICP-AES Interelement Correction Factors (Quarterly)
[Form XB – IN]

m. ICP-AES Linear Ranges (Quarterly)
[Form XI – IN]

n. Preparation Log
[Form XII - IN]

o. Analysis Run Log
[Form XIII - IN]

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP091809BWL

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium	497.0	512.49	103	1000.0	1000.07	100	990.13	99	P
Chromium	490.0	519.01	106	1000.0	1015.10	102	1010.70	101	P
Cobalt	499.0	516.55	104	1000.0	1002.88	100	996.75	100	P
Iron	5082.0	5215.35	103	25000.0	25046.30	100	24929.75	100	P
Nickel	503.0	523.32	104	1000.0	1003.04	100	998.26	100	P
Vanadium	501.0	515.84	103	1000.0	1003.61	100	996.47	100	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP091809BWL

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	1004.28	100	997.28	100	P
Chromium				1000.0	1021.09	102	1018.74	102	P
Cobalt				1000.0	1010.14	101	1007.54	101	P
Iron				25000.0	25154.13	101	25232.97	101	P
Nickel				1000.0	1009.00	101	1007.91	101	P
Vanadium				1000.0	1009.70	101	1004.58	100	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP091809BWL

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	987.60	99	1015.02	102	P
Chromium				1000.0	1002.23	100	1031.14	103	P
Cobalt				1000.0	991.90	99	1020.51	102	P
Iron				25000.0	24737.47	99	25451.59	102	P
Nickel				1000.0	992.99	99	1021.55	102	P
Vanadium				1000.0	991.16	99	1019.33	102	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP091809BWL

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	1014.41	101	1012.82	101	P
Chromium				1000.0	1030.90	103	1026.59	103	P
Cobalt				1000.0	1020.85	102	1012.47	101	P
Iron				25000.0	25473.80	102	25526.38	102	P
Nickel				1000.0	1022.27	102	1019.38	102	P
Vanadium				1000.0	1018.89	102	1013.11	101	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP091809BWL

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	1004.91	100			P
Chromium				1000.0	1022.19	102			P
Cobalt				1000.0	1007.55	101			P
Iron				25000.0	25292.48	101			P
Nickel				1000.0	1014.70	101			P
Vanadium				1000.0	1008.26	101			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP091809BWL

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron	5082.0	5042.27	99	25000.0	25318.51	101	25257.54	101	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP091809BWL

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron				25000.0	25370.15	101			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

CRQL Check Standard Source: HP092909BWL

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0	9.82 J	98	9.85 J	98
Cobalt	50.0	50.66	101	50.48	101
Nickel	40.0	40.02	100	40.53	101
Vanadium	50.0	50.44	101	50.40	101

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

CRQL Check Standard Source: HP092909BWL

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0			9.89 J	99
Cobalt	50.0			51.01	102
Nickel	40.0			40.95	102
Vanadium	50.0			50.55	101

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

CRQL Check Standard Source: HP092909BWL

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0			10.05	100
Cobalt	50.0			51.11	102
Nickel	40.0			40.96	102
Vanadium	50.0			50.58	101

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

CRQL Check Standard Source: HP092909BWL

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0			10.20	102
Cobalt	50.0			50.48	101
Nickel	40.0			40.95	102
Vanadium	50.0			50.08	100

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

3-IN
BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Barium	-0.391	J	-0.368	J	-0.304	J	-0.255	J	200.000	U	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	50.000	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	100.000	U	P
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	40.000	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	50.000	U	P

3-IN
BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Barium			-0.371	J	-0.269	J	-0.294	J			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Iron			100.000	U	100.000	U	100.000	U			P
Nickel			40.000	U	40.000	U	40.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P

3-IN
BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Barium			-0.354	J	-0.336	J	-0.345	J			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Iron			100.000	U	100.000	U	100.000	U			P
Nickel			40.000	U	40.000	U	40.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P

3-IN
BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Iron	100.000	U	100.000	U	-25.090	J	29.057	J			P

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

	True		Initial Found				Final Found			
Analyte	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495	2.6	130	500	101	2.7	135	503	102
Chromium	43	511	47.5	110	536	105	48.1	112	540	106
Cobalt	4	461	4.9	122	489	106	5.1	128	496	108
Iron	95600	94800	103000	108	96700	102	104000	109	97900	103
Nickel	21	984	22.9	109	1020	104	22.6	108	1020	104
Vanadium	0	494	0.77		494	100	1.0		499	101

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

	True		Initial Found				Final Found			
Analyte	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495					2.6	130	511	103
Chromium	43	511					47.4	110	545	107
Cobalt	4	461					5.2	130	501	109
Iron	95600	94800					104000	109	98500	104
Nickel	21	984					22.2	106	1030	105
Vanadium	0	494					0.93		505	102

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495					2.6	130	507	102
Chromium	43	511					46.3	108	542	106
Cobalt	4	461					4.8	120	499	108
Iron	95600	94800					101000	106	98000	103
Nickel	21	984					21.7	103	1030	105
Vanadium	0	494					0.69		503	102

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

	True		Initial Found				Final Found			
Analyte	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495					2.6	130	504	102
Chromium	43	511					47.5	110	540	106
Cobalt	4	461					4.9	122	495	107
Iron	95600	94800					103000	108	98400	104
Nickel	21	984					22.4	107	1030	105
Vanadium	0	494					0.88		498	101

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Iron	95600	94800	106000	111	102000	108	106000	111	102000	108

US EPA - CLP

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-3S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

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	2089.7880		127.6266	J	2000.00	98		P
Chromium	75 - 125	183.9390		10.0000	U	200.00	92		P
Cobalt	75 - 125	503.1645		50.0000	U	500.00	101		P
Iron	75 - 125	2334.7050		1859.7420		1000.00	47	N	P
Nickel	75 - 125	507.6775		3.2686	J	500.00	101		P
Vanadium	75 - 125	506.5461		4.5892	J	500.00	100		P

Comments:

US EPA - CLP

5B-IN

POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-17A

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Iron		5900.82		1859.74		3800.0	106		P

Comments:

6-IN

DUPLICATES

EPA SAMPLE NO.

MW-3D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

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)	C	Duplicate (D)	C	RPD	Q	M
Barium		127.6266	J	124.8739	J	2		P
Chromium		10.0000	U	10.0000	U			P
Cobalt		50.0000	U	50.0000	U			P
Iron		1859.7420		1512.4399		21	*	P
Nickel		3.2686	J	3.2737	J	0		P
Vanadium		4.5892	J	3.7646	J	20		P

7 - IN
LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No: _____ SDG NO.: 1003173

Solid LCS Source: _____

Aqueous LCS Source: EPA-0307

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits		%R
Barium	502.0	512.24	102						
Chromium	490.0	515.00	105						
Cobalt	496.0	515.10	104						
Iron	5107.0	5170.33	101						
Nickel	492.0	520.88	106						
Vanadium	501.0	515.63	103						

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MW-3L

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Barium	127.63	J	148.86	J	17	E	P
Chromium	10.00	U	50.00	U			P
Cobalt	50.00	U	250.00	U			P
Iron	1859.74		4363.84		135	E	P
Nickel	3.27	J	200.00	U	100		P
Vanadium	4.59	J	5.33	J	16		P

US EPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Instrument Type: P Instrument ID: P3 Date: 01/15/2010

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Barium	493.41	200	0.24
Chromium	267.72	10	1.30
Cobalt	228.62	50	0.73
Iron	271.44	100	13.7
Nickel	231.60	40	0.94
Vanadium	292.40	50	0.55

Comments:

US EPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Instrument Type: P Instrument ID: P3 Date: 01/15/2010

Preparation Method: HW1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Barium	493.41	200	1.30
Chromium	267.72	10	3.10
Cobalt	228.62	50	0.98
Iron	271.44	100	26.0
Nickel	231.60	40	1.90
Vanadium	292.40	50	0.75

Comments:

US EPA - CLP

10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.22	0.0000000	0.0000000	0.0002580	0.0001440	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	-0.0005190
Arsenic	189.04	0.0000000	0.0000000	-0.0000150	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	0.0000000	0.0000000	0.0000890	0.0000000	0.0000000
Calcium	317.93	-0.0001010	0.0000000	0.0000000	0.0000000	-0.0336960
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.0001300	0.0000000
Lead	220.35	0.0005460	0.0000000	0.0000970	0.0000000	0.0022270
Lead	220.35	-0.0003430	0.0000000	0.0000000	0.0000000	-0.0010720
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000100	0.0000290	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	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0001930	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	-0.0015690	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0001470	-0.0000110	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0000000	0.0000680	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0001830	-0.0001090	0.0000000	-0.0002010	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0000610	-0.0006730	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	-0.0036480
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0004270
Cobalt	228.62	0.0000000	0.0000000	0.0001740	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0002590	0.0003520
Lead	220.35	0.0000000	-0.0001260	0.0000000	-0.0002730	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	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0003290	0.0000000	0.0000000	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	-0.0003220	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Cu	K	Mn
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0071400	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0058350	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	-0.0013380	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	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	-0.0032890	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	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0857740	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0001110	0.0001790	0.0002390	0.0000000	0.0004100
Lead	220.35	-0.0001090	-0.0001010	0.0000000	0.0000000	-0.0001270
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	-0.0003300	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0001080	0.0000000	0.0000000	0.0000000	0.0004820
Selenium	196.02	-0.0003160	0.0000000	0.0001190	0.0000000	0.0003330
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	0.0021180	0.0000000	-0.0002690	-0.0000370	0.0000000
Vanadium	292.40	0.0000000	-0.0008170	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0000000	0.0006560	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 Date: 01/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mo	Ni	Pb	Sb	Se
Aluminum	308.22	0.0194980	0.0000000	0.0000000	0.0195470	0.0028700
Antimony	206.83	-0.0009700	-0.0010660	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0060890	0.0000000	0.0000000	0.0000000	-0.0001140
Arsenic	189.04	0.0000000	0.0000000	-0.0001860	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	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	-0.0113160	0.0000000	-0.0033170	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0007420	0.0000000	0.0009600	0.0001740
Lead	220.35	-0.0010330	0.0000340	0.0000000	-0.0004000	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	0.0008890	0.0000000	-0.0002980	0.0004440	0.0000000
Selenium	196.02	0.0012870	0.0000930	0.0000000	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	-0.0077450	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0053070	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0031480	0.0000000	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP-AES Instrument ID: P3 Date: 01/15/2010

Analyte	Wavelength (nm)	Interelement Correction Factors for: Sn	Ti	Tl	V	Zn
Aluminum	308.22	0.0148750	0.0233540	0.0000000	-0.0121870	0.0000000
Antimony	206.83	-0.0049450	0.0000000	0.0000000	-0.0052590	0.0000000
Antimony	206.83	0.0000000	0.0000000	-0.0001020	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0001650	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	-0.0007540	0.0000000	0.0002670	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	-0.0027170	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0005990	0.0000000
Cobalt	228.62	0.0000000	0.0019450	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0003390	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0093530	0.0000000
Lead	220.35	0.0008120	0.0005860	0.0000000	0.0001270	0.0001500
Lead	220.35	0.0000000	-0.0004550	-0.0001710	-0.0002750	-0.0001300
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	-0.0001760	0.0001600	0.0001590	0.0000000
Selenium	196.02	0.0000000	0.0037200	0.0002600	0.0002260	0.0001110
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0028910	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0489110
Thallium	190.86	-0.0011270	0.0000000	0.0000000	0.0014120	-0.0002450
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

US EPA - CLP

11-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

ICP Instrument ID: P3 Date: 01/15/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Barium	15.00	50000.0	P
Chromium	15.00	60000.0	P
Cobalt	15.00	50000.0	P
Iron	15.00	700000.0	P
Nickel	15.00	60000.0	P
Vanadium	15.00	50000.0	P

Comments:

US EPA - CLP

12-IN

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1003173

Preparation Method: HW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume(mL)
LCSW	03/27/2010		50
MW-12	03/27/2010		50
MW-17	03/27/2010		50
MW-2	03/27/2010		50
MW-3	03/27/2010		50
MW-3D	03/27/2010		50
MW-3S	03/27/2010		50
MW-8	03/27/2010		50
MW-9	03/27/2010		50
PBW	03/27/2010		50

Comments:

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

Instrument ID: P3 Analysis Method: P

Start Date: 03/30/2010 End Date: 03/31/2010

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	2004				X				X	X		X					X						X		
S	1.0	2011								X								X								
S	1.0	2018																								
S	1.0	2023				X					X		X											X		
S	1.0	2029																								
ICV	1.0	2036				X				X	X		X					X						X		
ICB	1.0	2043				X				X	X		X					X						X		
CRI	1.0	2050								X	X							X						X		
ICSA	1.0	2057				X				X	X		X					X						X		
ICSAB	1.0	2104				X				X	X		X					X						X		
CCV	1.0	2111				X				X	X		X					X						X		
CCB	1.0	2118				X				X	X		X					X						X		
ZZZZZZ	1.0	2128																								
ZZZZZZ	1.0	2135																								
ZZZZZZ	1.0	2142																								
ZZZZZZ	1.0	2149																								
ZZZZZZ	1.0	2156																								
ZZZZZZ	5.0	2203																								
ZZZZZZ	1.0	2210																								
ZZZZZZ	1.0	2217																								
ZZZZZZ	1.0	2224																								
ZZZZZZ	1.0	2231																								
CCV	1.0	2238				X				X	X		X					X						X		
CCB	1.0	2245				X				X	X		X					X						X		
ZZZZZZ	1.0	2252																								
ZZZZZZ	1.0	2259																								
ZZZZZZ	1.0	2306																								
ZZZZZZ	1.0	2313																								
ZZZZZZ	1.0	2320																								
ZZZZZZ	1.0	2327																								
ZZZZZZ	1.0	2334																								
CRI	1.0	2341								X	X							X						X		
ICSA	1.0	2348				X				X	X		X					X						X		
ICSAB	1.0	2355				X				X	X		X					X						X		
CCV	1.0	0002				X				X	X		X					X						X		

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

Instrument ID: P3 Analysis Method: P

Start Date: 03/30/2010 End Date: 03/31/2010

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.0	0009				X				X	X		X					X						X		
ZZZZZZ	1.0	0016																								
ZZZZZZ	1.0	0023																								
ZZZZZZ	1.0	0030																								
ZZZZZZ	1.0	0037																								
ZZZZZZ	1.0	0044																								
ZZZZZZ	1.0	0051																								
ZZZZZZ	1.0	0058																								
ZZZZZZ	1.0	0105																								
ZZZZZZ	1.0	0112																								
ZZZZZZ	1.0	0119																								
CCV	1.0	0126				X				X	X		X					X						X		
CCB	1.0	0133				X				X	X		X					X						X		
ZZZZZZ	1.0	0140																								
ZZZZZZ	1.0	0147																								
ZZZZZZ	5.0	0154																								
ZZZZZZ	1.0	0201																								
ZZZZZZ	1.0	0208																								
ZZZZZZ	1.0	0215																								
ZZZZZZ	1.0	0222																								
CRI	1.0	0229								X	X							X						X		
ICSA	1.0	0236				X				X	X		X					X						X		
ICSAB	1.0	0243				X				X	X		X					X						X		
CCV	1.0	0250				X				X	X		X					X						X		
CCB	1.0	0257				X				X	X		X					X						X		
ZZZZZZ	1.0	0304																								
ZZZZZZ	1.0	0311																								
ZZZZZZ	1.0	0318																								
ZZZZZZ	1.0	0325																								
ZZZZZZ	1.0	0332																								
ZZZZZZ	1.0	0339																								
ZZZZZZ	1.0	0346																								
ZZZZZZ	1.0	0353																								
ZZZZZZ	1.0	0400																								
ZZZZZZ	1.0	0407																								

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

Instrument ID: P3 Analysis Method: P

Start Date: 03/30/2010 End Date: 03/31/2010

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.0	0414				X				X	X		X					X						X		
CCB	1.0	0421				X				X	X		X					X						X		
ZZZZZZ	1.0	0428																								
ZZZZZZ	1.0	0435																								
ZZZZZZ	1.0	0442																								
ZZZZZZ	1.0	0449																								
ZZZZZZ	1.0	0456																								
PBW	1.0	0504				X				X	X		X					X						X		
LCSW	1.0	0511				X				X	X		X					X						X		
CRI	1.0	0518								X	X							X						X		
ICSA	1.0	0525				X				X	X		X					X						X		
ICSAB	1.0	0532				X				X	X		X					X						X		
CCV	1.0	0539				X				X	X		X					X						X		
CCB	1.0	0546				X				X	X		X					X						X		
MW-3	1.0	0553				X				X	X		X					X						X		
MW-3D	1.0	0600				X				X	X		X					X						X		
MW-3S	1.0	0607				X				X	X		X					X						X		
MW-3L	5.0	0614				X				X	X		X					X						X		
ZZZZZZ	1.0	0621																								
MW-2	1.0	0628				X				X	X		X					X						X		
MW-8	1.0	0635				X				X	X		X					X						X		
MW-9	1.0	0642				X				X	X		X					X						X		
MW-12	1.0	0649				X				X	X		X					X						X		
MW-17	1.0	0656				X				X	X		X					X						X		
CCV	1.0	0703				X				X	X		X					X						X		
CCB	1.0	0710				X				X	X		X					X						X		
CRI	1.0	0717								X	X							X						X		
ICSA	1.0	0724				X				X	X		X					X						X		
ICSAB	1.0	0731				X				X	X		X					X						X		
CCV	1.0	0738				X				X	X		X					X						X		
CCB	1.0	0745				X				X	X		X					X						X		

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1003173

Instrument ID: P3 Analysis Method: P

Start Date: 04/06/2010 End Date: 04/06/2010

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0920											X														
S	1.0	0927																									
S	1.0	0934																									
S	1.0	0939											X														
S	1.0	0945																									
ICV	1.0	0952											X														
ICB	1.0	0959											X														
CRI	1.0	1006																									
ICSA	1.0	1013											X														
ICSAB	1.0	1020											X														
CCV	1.0	1027											X														
CCB	1.0	1034											X														
ZZZZZZ	1.0	1058																									
ZZZZZZ	1.0	1105																									
ZZZZZZ	1.0	1112																									
ZZZZZZ	1.0	1119																									
ZZZZZZ	1.0	1126																									
ZZZZZZ	1.0	1133																									
ZZZZZZ	1.0	1151																									
ZZZZZZ	5.0	1158																									
ZZZZZZ	1.0	1216																									
CCV	1.0	1223											X														
CCB	1.0	1230											X														
ZZZZZZ	1.0	1237																									
ZZZZZZ	1.0	1244																									
ZZZZZZ	1.0	1251																									
ZZZZZZ	1.0	1306																									
MW-17A	1.0	1313											X														
ZZZZZZ	1.0	1324																									
CRI	1.0	1331																									
ICSA	1.0	1338											X														
ICSAB	1.0	1345											X														
CCV	1.0	1352											X														
CCB	1.0	1400											X														

3. 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 method and instrument parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP-AES, Graphite Furnace AA (if used), ICP-MS, mercury, and cyanide (if a target analyte).

Raw data shall be labeled with EPA sample numbers and appropriate codes 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, serial dilution samples, CRQL check standard, Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by EPA sample number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes (indicating standard solutions used, final spike concentrations, and volumes involved).
- instrument used, any instrument adjustments, data corrections or other apparent anomalies on the measurement record, including all data voided or data not used and a brief written explanation
- time and date of each analysis (instrument run logs can be submitted if they contain this information)

Daily Instrument Profile

Nebulizer pressure: 50
Peak position: 0.023503
Peak intensity: 1354
Vernier position: 170

Maintenance: NONE

Printed: 4/6/2010 3:29:05 PM

Method(s) (circle one): ILM04.1 (ILM05.4) (6010B) 200.7 **Other** _____

Operator(s): JL **Date/Time** 040610/0920 **to** 040610/1400

↑	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
1003156	W	TAL
1003173	W	Custom
MB81Y0	L	RCRA

complete ↓

ICP Run Log (P3)

File Name: P30406A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CAL1	S0 BLANK	CALIB STD	1	04/06/10	09:20:09		
CAL2	S RSTD-1	CALIB STD	1	04/06/10	09:27:10		
CAL4	S RSTD-3	CALIB STD	1	04/06/10	09:34:10		
CAL3	S RSTD-2	CALIB STD	1	04/06/10	09:39:38		
CAL5	S RSTD-4	CALIB STD	1	04/06/10	09:45:05		
ICV1	ICV1	ICV	1	04/06/10	09:52:07		
ICB1	ICB	ICB	1	04/06/10	09:59:07		
CRL1	CRI	CRI	1	04/06/10	10:06:08		
IFA1	ICSA	ICS	1	04/06/10	10:13:08		
IFB1	ICSAB	ICS	1	04/06/10	10:20:08		
CCV1	CCV	CCV	1	04/06/10	10:27:09		
CCB1	CCB	CCB	1	04/06/10	10:34:10		
LRS	LRS	LRS	1	04/06/10	10:58:54		
0033023-BLK1	PBW	PBW	1	04/06/10	11:05:55	MB81Y0	
0033023-BLK2	PBW	PBW	1	04/06/10	11:12:55	MB81Y0	
0033023-BS1	LCSW	LCS	1	04/06/10	11:19:55	MB81Y0	

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: L. Jones Date: 4-6-10

ICP Run Log (P3)

File Name: P30406A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1003143-04	MB8275	SAMPLE	1	04/06/10	11:26:56	MB81Y0	
0033023-DUP1	MB8275D	SAMPLE	1	04/06/10	11:33:56	MB81Y0	
0033023-MS1	MB8275S	SAMPLE	1	04/06/10	11:51:07	MB81Y0	
SRD1	MB8275L	SAMPLE	1	04/06/10	11:58:07	MB81Y0	
0033023-PS1	MB8275A	SAMPLE	1	04/06/10	12:16:13	MB81Y0	
CCV2	CCV	CCV	1	04/06/10	12:23:14		
CCB2	CCB	CCB	1	04/06/10	12:30:16		
1003143-01	MB81Y0	SAMPLE	1	04/06/10	12:37:16	MB81Y0	
1003143-02	MB81Y6	SAMPLE	1	04/06/10	12:44:16	MB81Y0	
1003143-03	MB8204	SAMPLE	1	04/06/10	12:51:16	MB81Y0	
0032253-PS1	IC-9A	SAMPLE	1	04/06/10	13:06:44	1003156	
0032610-PS1	MW-17A	SAMPLE	1	04/06/10	13:13:58	1003173	
IBL1	IBL	SAMPLE	1	04/06/10	13:24:03		
CRL2	CRI	CRI	1	04/06/10	13:31:53		
IFA2	ICSA	ICS	1	04/06/10	13:38:53		
IFB2	ICSAB	ICS	1	04/06/10	13:45:53		
CCV3	CCV	CCV	1	04/06/10	13:52:54		
CCB3	CCB	CCB	1	04/06/10	14:00:01		

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: L. Forestor Date: 4-16-10

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2 69

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P40406A / P30406A

	Ref #*	Manufacturer	Lot #	Expiration Date
HNO_3 [Baker Instra-analyzed Trace-Metals grade]	0B02020	JT Baker	H20053	12/13
HCl [Baker Instra-analyzed Trace-Metals grade]	9L29009	Caledon	71900	12/12
SM-770-027 multi-element standard mix (RSTD-1)	9G08002	High Purity	0916328	06/15/10
SM-770-028 part A multi-element standard mix (RSTD-2A)	9J22002	High Purity	0928011	10/12/2010
SM-770-028 part B multi-element standard mix (RSTD-2B)	9J22001	High Purity	0928012	10/12/2010
SM-770-029 part A multi-element standard mix (RSTD-3A)	9G08004	High Purity	0805135	04/16/10
SM-770-029 part B multi-element standard mix (RSTD-3B)	9G08005	High Purity	0906204	10/16/10
SM-770-030 multi-element standard mix (RSTD-4)	9G08001	High Purity	0916327	06/15/10
SPEX-R multi-element standard mix	0A04007	High Purity	0916301	06/15/10
ICP-AES-CRQL-R multi-element standard mix	9I04002	High Purity	0923808	08/28/10
ICV1 multi-element standard mix	0B04003	EPA	0307	02/04/11
ICSA multi-element standard mix	0B04002	EPA	1206	02/04/11
ICSB multi-element standard mix	0B04001	EPA	0203	02/04/11
SM-770-031 multi-element standard mix (PDS-R)	9I22001	High Purity	0926418	09/17/10
ARSENIC (As) 1,000 PPM single-element standard	9F17001	High Purity	0911221	12/05/10
Internal Mix	0B04004	High Purity	0934101	12/10/10
SM-770-040 multi-element CCV mix (Soln A)	9F09004	High Purity	0912103	05/01/10
SM-770-040 multi-element CCV mix (Soln B)	9F09004	High Purity	0912104	05/01/10
SM-770-042 (LRS 6010B)	0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (µg/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
PDS-R multi-element standard mix	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Sb:120
Internal Mix	Li:50,000 Y:250
LRS 6010B multi-element standard mix	Al: 20 Sb:1 As:1 Ba:20 Be:0.5 Bi:2 B:2 Cd:0.5 Ca:500 Cr:1 Co:0.5 Cu:0.5 Fe:10 Pb:0.3 Mg:500 Mn:1 Mo:2 Ni:0.5 K:500 Se:0.5 Ti:0.5 V:2 Zn:2

Entered By: Sherry J. MacDonell

Reviewed By: L. Forrester Date: 4-6-10

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**High Purity is abbreviated "HP" on reporting forms

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB- 04.05.10-SGM	0D0504	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 04.01.10-SGM	0D01002	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 04.01.10-SGM	0D01003	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 04.01.10-SGM	0D01004	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 04.01.10-SGM	0D01005	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Ti:2,000 Sb:2,000 B:2,000
ICV1- 04.01.10-SGM	0D01006	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV/CVS1- 03.30.10-SGM	0C3100 1	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LRS- 03.25.10-SGM	0CZ60006	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Ti:20 Sb:10 B:20

Standard Solutions Prepared By: [signature]

Entered By: [signature]

Reviewed By: [signature] Date: 4-6-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
As- 03.29.10 JCF	0C29010	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 03.30.10-SGM	0C3003	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 04.05.10-SGM	0D05005	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Ti:1,000 B:1,000
EPA-CRI- 03.30.10-SGM	0C30005	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Ti:50
P3RINSE- 04.05.10-SGM	0D05006	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 04.05.10-SGM	0D05007	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	NA	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 04.05.10-SGM	0D05003	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- 04.05.10-SGM	0D05008	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	NA	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: SGM/JCF

Entered By: [signature]

Reviewed By: [signature] Date: 4-6-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

METHOD: ALT-P3Q1 STANDARD: S0 BLANK
RUN TIME: 04/06/10 09:20:09

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	-.58997	4.0711	.37225	.63676	.00000	-.02421	.00912
SDEV	.04172	.0312	.00042	.01510	.00000	.00741	.00930
%RSD	7.0721	.76522	.11374	2.3710	.00000	30.626	101.92
#1	-.54597	4.0557	.37187	.62451	.00000	-.01748	.01983
#2	-.59497	4.1070	.37217	.65363	.00000	-.02298	.00444
#3	-.62897	4.0506	.37270	.63213	.00000	-.03216	.00309

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	.00619	.55864	.01052	.31104	.01110	.00519	-.11324
SDEV	.00702	.01893	.00345	.05567	.00260	.00065	.01111
%RSD	113.43	3.3884	32.784	17.899	23.466	12.564	9.8109
#1	.01181	.57197	.01350	.37511	.01401	.00506	-.10211
#2	-.00168	.56697	.01133	.27438	.01029	.00462	-.11328
#3	.00843	.53697	.00674	.28364	.00899	.00590	-.12433

ELEM	NI2316	TL1908	V_2924	ZN2138	AS1890	22031	22032
AVGE	-.00072	-.00868	-.00840	.03186	.01969	.07343	.01935
SDEV	.00339	.01118	.00188	.00450	.02280	.26702	.04460
%RSD	472.13	128.80	22.339	14.130	115.81	363.65	230.44
#1	.00183	-.00042	-.00626	.03671	.02700	.38059	-.02321
#2	.00058	-.02140	-.00976	.03105	-.00587	-.05706	.01552
#3	-.00457	-.00421	-.00919	.02782	.03793	-.10326	.06575

ELEM	20681	20682	19601	19602	SN1899	BI2230	MO2020
AVGE	.00589	-.01659	-.06900	.04854	-.00462	.12937	.01363
SDEV	.01627	.02046	.02992	.02701	.00377	.06818	.01431
%RSD	276.42	123.33	43.358	55.638	81.615	52.700	104.97
#1	-.01097	-.02025	-.03460	.02068	-.00084	.18312	.00071
#2	.00713	.00545	-.08894	.05035	-.00839	.15230	.02902
#3	.02149	-.03498	-.08345	.07460	-.00464	.05268	.01118

ELEM	TI3349	B_2496
AVGE	.81887	.05274
SDEV	.20212	.01232
%RSD	24.682	23.364
#1	1.0481	.04810
#2	.74218	.06671
#3	.66632	.04341

STANDARDIZATION RPT. 04/06/10 09:34:07 AM PAGE 1

METHOD: ALT-P3Q1 STANDARD: S RSTD-1
RUN TIME: 04/06/10 09:27:10

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2138
AVGE	20.841	245.99	14.529	147.56	12.037	2.4456	9.2586
SDEV	.326	4.38	.283	2.77	.212	.0532	.1782
%RSD	1.5663	1.7790	1.9493	1.8768	1.7596	2.1765	1.9247
#1	20.486	241.14	14.217	144.37	11.798	2.3845	9.0595
#2	20.910	247.17	14.599	148.96	12.111	2.4700	9.3133
#3	21.128	249.65	14.771	149.34	12.203	2.4823	9.4031

ELEM	22031	22032	19601	19602
AVGE	61.946	58.023	9.9737	17.355
SDEV	1.250	.805	.1477	.416
%RSD	2.0182	1.3869	1.4804	2.3957
#1	60.840	57.134	9.8304	16.920
#2	61.695	58.232	9.9654	17.397
#3	63.302	58.702	10.125	17.748

METHOD: ALT-P3Q1 STANDARD: S RSTD-3
RUN TIME: 04/06/10 09:34:10

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	759.34	.22119	383.33	130.01	18.888
SDEV	17.54	.00578	5.33	2.67	.792
%RSD	2.3100	2.6135	1.3894	2.0543	4.1912
#1	747.38	.21761	379.31	128.12	18.456
#2	751.17	.21810	381.32	128.86	18.406
#3	779.48	.22786	389.37	133.07	19.801

METHOD: ALT-P3Q1 STANDARD: S RSTD-2
RUN TIME: 04/06/10 09:39:38

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	157.60	977.25	42.079	27.864	23.112	7.4789	42.047
SDEV	1.83	7.71	.345	.350	.209	.0738	.538
%RSD	1.1603	.78939	.81925	1.2570	.90400	.98679	1.2806
#1	155.89	974.48	41.847	27.517	22.960	7.4180	41.458
#2	157.38	971.30	41.914	27.859	23.026	7.4578	42.167
#3	159.52	985.96	42.475	28.217	23.351	7.5610	42.515

ELEM	MO2020
AVGE	33.529
SDEV	.445
%RSD	1.3276
#1	33.066
#2	33.568
#3	33.954

METHOD: ALT-P3Q1 STANDARD: S RSTD-4
RUN TIME: 04/06/10 09:45:05

ELEM	20681	20682	SN1899	BI2230	TI3349	B_2496
AVGE	4.6967	18.799	6.0939	48.879	109.37	65.884
SDEV	.0272	.206	.0785	.399	1.14	.341
%RSD	.58015	1.0961	1.2874	.81658	1.0419	.51711
#1	4.6737	18.842	6.1289	49.051	109.62	65.998
#2	4.7268	18.980	6.1488	49.163	110.36	66.153
#3	4.6897	18.575	6.0041	48.423	108.13	65.501

ANALYSIS REPORT QC STANDARD 04/06/10 09:59:04 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 04/06/10 09:52:07
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	516.5662	2441.356	507.9963	488.9877	9789.019	516.3590	504.7607
SDEV	1.2839	7.704	2.3408	2.0150	12.210	1.2224	1.7634
%RSD	.2485366	.3155677	.4607997	.4120773	.1247315	.2367314	.3493588
#1	516.1649	2439.515	507.0005	487.6572	9784.547	515.5006	503.4967
#2	518.0027	2449.814	510.6704	491.3060	9802.834	517.7585	506.7752
#3	515.5309	2434.739	506.3181	488.0000	9779.675	515.8178	504.0102
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	513.9171	516.5493	5042.273	9343.834	5754.896	492.6138	9821.217
SDEV	1.4326	1.9518	11.554	34.023	17.254	2.1305	28.009
%RSD	.2787658	.3778441	.2291469	.3641183	.2998112	.4324809	.2851887
#1	513.0461	516.3767	5035.026	9351.020	5745.032	491.8391	9850.263
#2	515.5706	518.5817	5055.598	9373.690	5774.819	495.0232	9794.375
#3	513.1346	514.6896	5036.196	9306.793	5744.838	490.9791	9819.012
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	520.3463	1068.822	504.9069	1013.253	1033.731	1036.358	1008.911
SDEV	1.0941	4.447	1.7119	2.352	4.606	5.364	2.424
%RSD	.2102687	.4160519	.3390449	.2321469	.4455370	.5175819	.2402413
#1	519.2861	1070.374	503.8397	1011.664	1029.221	1030.718	1010.077
#2	521.4714	1063.807	506.8815	1015.955	1033.545	1036.962	1006.125
#3	520.2814	1072.284	503.9997	1012.140	1038.427	1041.395	1010.532
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1006.859	1030.813	1035.183	1002.340	1012.187	1035.013	1037.024
SDEV	2.462	2.309	7.133	2.603	4.885	6.988	6.144
%RSD	.2445213	.2239844	.6890280	.2596939	.4825719	.6751478	.5924625
#1	1008.799	1029.675	1028.989	1000.290	1014.958	1027.502	1032.317
#2	1007.689	1033.470	1033.578	1005.269	1006.547	1041.322	1034.779
#3	1004.090	1029.294	1042.981	1001.461	1015.055	1036.215	1043.974
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	999.0000						
RANGE	10.40000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1102.527	1085.930	1087.523	1074.490	1100.750	2405.911
SDEV	8.209	4.291	3.579	5.679	3.348	2.888
%RSD	.7445518	.3951082	.3291187	.5285180	.3041557	.1200300
#1	1093.194	1083.769	1083.804	1079.705	1098.187	2406.867
#2	1108.626	1090.871	1090.944	1068.440	1104.538	2402.666
#3	1105.761	1083.148	1087.819	1075.324	1099.525	2408.200
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	1100.000	1100.000	1100.000	
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 04/06/10 09:59:07
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.275729	-39.9782	-.357249	-.127569	4.666606	-.265316	-.621381
SDEV	.336942	15.1297	.044571	.066486	.008731	.155463	.248630
%RSD	122.2003	37.84495	12.47624	52.11790	.1870905	58.59533	40.01253
#1	-.627179	-51.9692	-.349071	-.179973	4.674419	-.260597	-.872601
#2	.0445376	-44.9859	-.317334	-.149955	4.657182	-.112267	-.375424
#3	-.244547	-22.9795	-.405344	-.052779	4.668217	-.423085	-.616118
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.00509	.7117611	-.664325	-3.40402	1.033765	-.130410	-105.559
SDEV	.23148	.2676302	3.148960	3.02809	.784170	.020295	158.900
%RSD	23.03114	37.60112	474.0087	88.95642	75.85574	15.56241	150.5320
#1	-1.25335	.6709509	2.860133	-1.65765	.1785577	-.153838	73.15691
#2	-.966776	.9974525	-3.20089	-1.65384	1.203710	-.119165	-158.935
#3	-.795159	.4668800	-1.65222	-6.90055	1.719027	-.118226	-230.898
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.418518	-3.54154	-.691809	-4.47257	-.518337	-.536376	1.082258
SDEV	.875716	3.62314	.036665	.14315	1.005233	4.290979	1.644633
%RSD	209.2419	102.3041	5.299841	3.200694	193.9343	799.9948	151.9632
#1	-.386814	-.366785	-.676416	-4.35588	-.167362	-4.55335	2.873187
#2	.4409145	-7.48854	-.733661	-4.42952	-1.65200	-1.03994	-.360243
#3	-1.30966	-2.76929	-.665350	-4.63231	.2643543	3.984167	.7338287
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.14250	2.596549	-2.07906	-.956669	2.095203	.9548038	-1.28584
SDEV	1.10801	2.788533	2.13451	4.514058	2.355803	5.469440	3.72405
%RSD	96.98125	107.3938	102.6669	471.8518	112.4379	572.8339	289.6205
#1	-.047654	-.542583	.0143519	3.020877	2.794461	-4.49366	-4.58815
#2	-1.11662	3.545386	-4.25241	-.028068	-.531065	.9130837	-2.01997
#3	-2.26322	4.786845	-1.99912	-5.86282	4.022213	6.444984	2.750610
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.928551	-4.71531	.1417922	-11.4255	.1251214	2436.666
SDEV	5.523927	1.53917	.9106948	4.5125	.9063243	2.194
%RSD	286.4289	32.64187	642.2742	39.49517	724.3561	.0900371
#1	8.210940	-3.01990	1.191304	-16.6335	.9529135	2435.933
#2	-.257419	-5.10126	-.440043	-8.96331	.2657468	2439.133
#3	-2.16787	-6.02477	-.325885	-8.67961	-.843296	2434.933
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 04/06/10 10:06:08
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	11.15666	-65.2685	-.479287	4.503439	5.903527	5.211282	49.97649
SDEV	1.14615	41.8465	.091423	.123606	.037558	.238757	.55690
%RSD	10.27322	64.11437	19.07472	2.744711	.6361877	4.581533	1.114331
#1	10.21205	-30.3291	-.426845	4.603084	5.863106	4.967917	49.37370
#2	10.82620	-53.8323	-.584852	4.542114	5.937346	5.220784	50.08390
#3	12.43173	-111.644	-.426164	4.365120	5.910131	5.445146	50.47186
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.428198	27.39902	-.240295	-5.19422	-1.64109	14.30153	-106.619
SDEV	.305451	1.69007	8.398201	8.17884	3.76846	.22516	100.312
%RSD	3.239759	6.168348	3494.960	157.4605	229.6311	1.574385	94.08391
#1	9.353062	26.17015	7.011140	4.191519	2.698481	14.10999	-78.4128
#2	9.167327	26.70054	-9.44206	-10.7951	-3.53269	14.24506	-218.015
#3	9.764206	29.32637	1.710035	-8.97911	-4.08907	14.54956	-23.4307
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.50465	22.62523	49.16980	49.46433	10.03144	36.17530	60.90320
SDEV	.62575	7.85068	.30989	.39640	1.32435	3.32553	1.91382
%RSD	1.544894	34.69877	.6302402	.8013794	13.20202	9.192819	3.142400
#1	41.20170	21.91276	49.51449	49.00757	8.906223	39.92902	58.71012
#2	39.99131	30.80785	48.91425	49.66711	11.49089	34.99935	62.23537
#3	40.32095	15.15507	49.08067	49.71831	9.697196	33.59751	61.76411
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.96176	14.43768	7.825379	58.44374	62.12610	35.73243	36.39141
SDEV	2.18640	2.89523	2.273330	5.70129	2.65278	2.24807	3.99911
%RSD	19.94568	20.05331	29.05073	9.755173	4.269986	6.291399	10.98917
#1	8.893826	16.30577	5.205773	54.05862	61.02741	38.26123	40.75669
#2	10.74152	15.90470	9.281041	56.38392	65.15171	33.96039	35.51305
#3	Q13.24995	11.10258	8.989325	64.88868	60.19919	34.97567	32.90448
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	51.33940	44.93689	49.78419	44.53000	49.94759	2436.778
SDEV	6.37564	2.64535	1.31431	4.10872	.14634	5.419
%RSD	12.41861	5.886808	2.640025	9.226861	.2929918	.2223711
#1	52.16647	47.89052	49.46765	43.52285	50.04260	2441.200
#2	44.59059	42.78560	51.22787	41.01850	50.02111	2430.733
#3	57.26114	44.13456	48.65705	49.04865	49.77907	2438.400
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 04/06/10 10:13:08
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4059490	259288.7	2.973232	.5698239	259194.7	-.210419	4.970878
SDEV	.3653666	1851.3	.047725	.0848322	2745.4	.411130	.184537
%RSD	90.00307	.7139956	1.605152	14.88745	1.059189	195.3859	3.712354
#1	.8038852	259333.4	3.028278	.4747851	260422.2	.1796303	5.183801
#2	.3283392	261117.3	2.943443	.5967948	261112.0	-.171086	4.857231
#3	.0856227	257415.5	2.947976	.6378917	256049.7	-.639802	4.871603
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	49.35144	26.09912	106432.6	-.589214	267392.5	19.25467	843.8583
SDEV	.15441	.48883	721.9	7.370517	1729.2	.09523	163.8818
%RSD	.3128724	1.872961	.6783025	1250.907	.6466752	.4945776	19.42053
#1	49.44052	26.45283	106119.9	4.384053	267086.9	19.31876	1030.338
#2	49.17314	26.30322	107258.2	-9.05702	269254.1	19.30002	722.7557
#3	49.44065	25.54132	105919.7	2.905330	265836.6	19.14525	778.4816
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	23.93438	-3.37670	.5448319	25.82907	9.883474	8.592600	2.738356
SDEV	.15544	3.86485	.0666660	.42264	.651793	5.906624	2.735807
%RSD	.6494435	114.4564	12.23607	1.636277	6.594776	68.74082	99.90694
#1	24.05886	-7.81741	.4700932	26.00378	10.09131	4.995900	1.622829
#2	23.76016	-1.53988	.5981685	26.13634	9.153108	Q15.40952	5.855678
#3	23.98412	-.772804	.5662341	25.34709	10.40600	5.372383	.7365597
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.016443	32.98855	-1.65842	-.754035	4.477327	19.66370	3.060011
SDEV	1.560106	3.74401	2.43825	.855506	3.736605	2.85955	7.483901
%RSD	153.4868	11.34942	147.0229	113.4570	83.45615	14.54228	244.5710
#1	-.780389	28.70897	.7897644	-.597096	2.727982	17.26467	-1.13463
#2	1.803154	35.65889	-4.08662	.0121353	8.767708	22.82803	11.70046
#3	2.026564	34.59779	-1.67840	-1.67715	1.936292	18.89839	-1.38579
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.84278	-3.06998	-3.42999	-.759351	-.594323	2282.289
SDEV	6.06171	4.91146	1.48170	.440179	.347853	10.685
%RSD	328.9434	159.9834	43.19826	57.96772	58.52931	.4681911
#1	-8.03868	1.725280	-4.20214	-.868843	-.948908	2280.000
#2	-1.56486	-2.84529	-4.36613	-1.13445	-.580446	2272.933
#3	4.075188	-8.08993	-1.72170	-.274761	-.253616	2293.933
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	100.0000	100.0000	100.0000	100.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 04/06/10 10:20:08
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	199.8327	246018.1	504.9483	474.2858	245222.5	997.8531	490.9599
SDEV	.6134	2390.6	5.1637	4.7081	2726.4	10.9950	4.8808
%RSD	.3069609	.9717006	1.022612	.9926616	1.111791	1.101865	.9941416
#1	200.1929	244698.7	501.7195	472.5235	243791.3	992.5594	488.3790
#2	200.1807	244578.0	502.2216	470.7131	243509.9	990.5062	487.9114
#3	199.1244	248777.6	510.9037	479.6208	248366.5	1010.494	496.5893
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	547.8494	524.5461	101608.5	-.878482	255247.2	506.1928	724.2133
SDEV	6.6684	.4557	1262.8	9.430735	3035.0	5.1608	235.8586
%RSD	1.217201	.0868733	1.242761	1073.527	1.189042	1.019528	32.56756
#1	544.7709	524.7675	100912.9	9.820484	253581.1	503.4907	988.8007
#2	543.2763	524.8488	100846.5	-4.47074	253410.1	502.9440	647.8161
#3	555.5009	524.0220	103066.1	-7.98519	258750.3	512.1436	536.0231
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1048.545	107.8372	496.2097	1036.047	60.95161	48.91810	609.0397
SDEV	11.441	6.0699	4.9638	12.849	1.77837	1.09297	5.8499
%RSD	1.091127	5.628771	1.000334	1.240230	2.917682	2.234281	.9605146
#1	1042.140	101.3932	493.8662	1029.124	62.17598	48.87922	608.6405
#2	1041.741	108.6718	492.8515	1028.144	58.91174	47.84508	603.3996
#3	1061.754	113.4467	501.9113	1050.873	61.76712	50.02998	615.0790
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	99.28558	78.58637	52.14082	593.1791	616.9576	60.86821	42.94670
SDEV	4.57197	2.03366	1.91306	6.1436	6.2781	2.54775	2.45197
%RSD	4.604866	2.587799	3.669032	1.035714	1.017598	4.185679	5.709344
#1	97.12659	80.80359	52.86954	596.2803	614.8108	63.58726	41.53095
#2	96.19291	76.80789	49.97049	586.1030	612.0344	60.48137	41.53115
#3	104.5372	78.14764	53.58244	597.1539	624.0275	58.53601	45.77799
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1008.004	1047.686	1004.531	1016.214	1052.750	2298.578
SDEV	9.056	17.690	10.849	16.506	15.673	21.003
%RSD	.8984362	1.688486	1.079991	1.624228	1.488802	.9137361
#1	1006.644	1040.886	995.7962	1004.686	1042.331	2306.333
#2	999.7039	1034.406	1001.122	1008.834	1045.144	2314.600
#3	1017.663	1067.767	1016.675	1035.122	1070.775	2274.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	200.0000	200.0000	200.0000	200.0000	200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 04/06/10 10:27:09
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	100.8124	49449.82	1017.302	987.4786	48291.56	1031.143	1005.746
SDEV	.6177	563.11	11.684	11.2253	388.77	12.513	11.586
%RSD	.6126950	1.138743	1.148480	1.136762	.8050574	1.213477	1.151970
#1	100.0992	48914.98	1006.120	977.9722	47978.39	1021.577	996.3470
#2	101.1684	49397.01	1016.356	984.6012	48169.58	1026.548	1002.202
#3	101.1696	50037.48	1029.429	999.8626	48726.69	1045.303	1018.691
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1039.949	1028.836	25318.51	49025.66	46610.84	982.0473	48503.78
SDEV	11.873	3.840	287.72	454.62	565.98	11.0563	356.61
%RSD	1.141679	.3732662	1.136391	.9273020	1.214262	1.125838	.7352144
#1	1029.298	1024.406	25047.22	48593.18	46100.47	972.4177	48187.17
#2	1037.800	1030.871	25288.08	48984.22	46512.51	979.6031	48434.08
#3	1052.750	1031.230	25620.23	49499.58	47219.54	994.1211	48890.09
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1036.972	1047.208	1009.958	1123.034	1028.138	1036.840	1024.411
SDEV	13.286	17.283	10.923	14.147	9.773	10.495	12.159
%RSD	1.281206	1.650407	1.081523	1.259705	.9505100	1.012242	1.186905
#1	1025.827	1034.932	999.9635	1111.176	1018.369	1024.991	1012.592
#2	1033.415	1039.719	1008.293	1119.233	1028.131	1040.562	1023.759
#3	1051.674	1066.973	1021.618	1138.693	1037.914	1044.967	1036.883
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1016.782	1031.435	1026.486	990.3784	1041.398	1042.204	1034.156
SDEV	12.645	4.526	12.826	11.9454	12.295	13.993	9.689
%RSD	1.243665	.4387928	1.249495	1.206148	1.180656	1.342645	.9369131
#1	1004.396	1029.099	1013.005	978.1938	1029.760	1026.332	1024.316
#2	1016.280	1028.554	1027.914	990.8720	1040.173	1052.760	1034.466
#3	1029.671	1036.651	1038.538	1002.069	1054.259	1047.521	1043.687
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1001.908	1023.375	1019.940	994.8606	1028.571	2382.066
SDEV	10.161	9.554	13.520	19.9469	12.936	18.591
%RSD	1.014116	.9335732	1.325568	2.004995	1.257687	.7804692
#1	995.1389	1014.212	1008.630	974.7629	1017.454	2397.066
#2	996.9938	1022.637	1016.276	995.1656	1025.489	2387.867
#3	1013.591	1033.277	1034.914	1014.653	1042.769	2361.267
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 04/06/10 10:34:10
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1615648	-53.4168	-.529832	-.380140	4.687162	-.132946	-1.16461
SDEV	.5471413	23.3011	.095203	.089133	.038550	.234186	.32654
%RSD	338.6512	43.62124	17.96855	23.44748	.8224696	176.1521	28.03835
#1	.2776485	-58.6221	-.453709	-.397586	4.695775	.1369758	-.958571
#2	.6413492	-73.6750	-.499209	-.459260	4.720677	-.282054	-.994158
#3	-.434303	-27.9533	-.636579	-.283573	4.645033	-.253759	-1.54110
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.17079	1.183250	-5.84428	-9.04042	1.419309	-.328145	-157.937
SDEV	.89907	.485081	11.44029	1.16860	.042481	.101952	154.433
%RSD	76.79166	40.99567	195.7518	12.92641	2.993087	31.06921	97.78130
#1	-.391280	1.582447	-1.52438	-8.67847	1.448271	-.328706	-6.19943
#2	-.966742	1.323924	2.807059	-8.09562	1.439114	-.225913	-152.680
#3	-2.15434	.6433792	-18.8155	-10.3472	1.370542	-.429815	-314.930
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.599478	-1.66923	-1.13988	-4.65122	-.484059	1.092689	1.717335
SDEV	.253253	5.01298	.52584	.14205	.995663	1.312221	.717017
%RSD	42.24562	300.3162	46.13112	3.054071	205.6905	120.0911	41.75172
#1	-.857827	-2.47009	-.796548	-4.48961	-.120554	.3771393	1.568841
#2	-.588956	3.695963	-.877839	-4.70770	-1.61040	.2937797	2.496972
#3	-.351649	-6.23357	-1.74525	-4.75634	.2787750	2.607147	1.086192
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.628131	-.692953	-.385452	-1.59537	3.366154	3.805748	-.266858
SDEV	1.596537	2.010041	.670696	1.02593	1.586983	6.086928	1.072105
%RSD	254.1725	290.0690	174.0025	64.30695	47.14527	159.9404	401.7517
#1	.6548822	.8003119	-.585945	-1.43045	3.061218	.5665205	.2775696
#2	-2.41608	-2.97838	-.933037	-2.69377	5.083478	.0233956	.4237935
#3	-.123192	.0992086	.3626257	-.661885	1.953766	10.82733	-1.50194
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.839974	-4.59701	.4315592	-14.1713	.2218734	2407.666
SDEV	3.398192	1.73879	1.016778	7.8750	.4535170	43.095
%RSD	404.5593	37.82430	235.6058	55.57026	204.4034	1.789893
#1	.6964171	-6.59441	.8322493	-8.56007	.0005555	2420.800
#2	-4.73504	-3.77491	1.186946	-10.7801	.7435573	2442.666
#3	1.518704	-3.42172	-.724518	-23.1739	-.078492	2359.533
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: LRS OPERATOR:
RUN TIME: 04/06/10 10:58:54
COMMENT: SDG:LRS CLIENTID:LRS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.904306	118.9722	204.0480	4.507054	5033.324	4.994386	4.578143
SDEV	.161936	13.8324	2.5167	.038067	35.642	.054699	.569211
%RSD	2.345441	11.62661	1.233409	.8446016	.7081238	1.095216	12.43322
#1	6.767921	116.3803	205.4984	4.487120	5046.800	5.056531	4.125297
#2	7.083281	133.9173	205.5038	4.550949	5060.263	4.953543	4.392015
#3	6.861714	106.6191	201.1420	4.483095	4992.908	4.973084	5.217117
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	300.0000	300.0000	7.500000	7500.000	7.500000	7.500000
LOW	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	2.500000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.625566	H7.657346	98.92827	4344.174	4875.277	9.735285	4968.015
SDEV	.927482	.468090	1.73661	40.950	51.160	.076985	183.926
%RSD	9.635610	6.112947	1.755420	.9426391	1.049386	.7907866	3.702209
#1	10.44645	H7.834268	97.78171	4339.652	4903.373	9.822371	4922.105
#2	8.619442	7.126583	98.07682	4387.197	4906.234	9.707190	4811.393
#3	9.810810	H8.011188	100.9263	4305.672	4816.226	9.676292	5170.548
ERRORS	LC PASS	LC HIGH	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	15.00000	7.500000	150.0000	7500.000	7500.000	15.00000	7500.000
LOW	5.000000	2.500000	50.00000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.086894	L4.715913	20.04500	13.24445	2.980992	4.688428	10.71142
SDEV	.236289	2.729368	.43834	.25921	.199211	3.879138	2.69872
%RSD	4.645060	57.87571	2.186761	1.957097	6.682697	82.73856	25.19481
#1	4.879471	5.755267	20.21122	13.32335	2.855635	4.203843	8.339050
#2	5.037097	L1.619560	19.54787	13.45504	3.210701	H8.787090	13.64746
#3	5.344112	6.772912	20.37592	12.95496	2.876641	L1.074350	10.14774
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	15.00000	30.00000	30.00000	4.500000	7.500000	15.00000
LOW	2.500000	5.000000	10.00000	10.00000	1.500000	2.500000	5.000000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	7.026119	7.997189	.4709971	8.114697	12.00283	7.278911	3.390090
SDEV	1.798629	1.447351	.4397841	4.359555	3.92655	11.18040	5.329563
%RSD	25.59918	18.09825	93.37299	53.72419	32.71352	153.5999	157.2100
#1	5.011461	6.765181	.8981205	9.965563	7.521971	17.09598	-2.23760
#2	8.470405	9.591171	.0195609	11.24345	14.84260	9.631245	8.360564
#3	7.596492	7.635213	.4953101	3.135076	13.64391	-4.89049	4.047310
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	15.00000						
LOW	5.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	18.55382	16.09333	21.48539	16.24119	19.41409	2417.267
SDEV	1.66640	1.55299	.84644	5.25204	.10599	17.046
%RSD	8.981433	9.649885	3.939593	32.33776	.5459327	.7051851
#1	19.60793	15.36430	22.45154	14.79106	19.46599	2410.800
#2	16.63267	15.03898	21.13030	11.86657	19.48413	2404.400
#3	19.42088	17.87670	20.87434	22.06593	19.29216	2436.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	30.00000	30.00000	30.00000	30.00000	30.00000	
LOW	10.00000	10.00000	10.00000	10.00000	10.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0033023-BLK1 OPERATOR:
RUN TIME: 04/06/10 11:05:55
COMMENT: SDG:MB81Y0 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.176889	-78.1047	.1830049	-.552248	4.678219	-.179207	-.922694
SDEV	.748383	9.7079	.0365607	.036851	.033743	.295461	.325079
%RSD	63.58990	12.42937	19.97799	6.672977	.7212750	164.8712	35.23154
#1	1.986853	-89.2275	.2174071	-.594727	4.713760	.1399189	-.690195
#2	1.032761	-71.3366	.1869946	-.533182	4.674276	-.234290	-.783729
#3	.5110530	-73.7499	.1446130	-.528836	4.646621	-.443250	-1.29416
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	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.793744	2.330755	-.437721	109.8740	2.366538	-.320456	H596357.6
SDEV	.396689	.321799	11.52146	4.1309	.873098	.083584	4849.2
%RSD	49.97693	13.80666	2632.147	3.759664	36.89345	26.08263	.8131347
#1	-.335688	2.671024	7.380561	111.4993	3.338384	-.223950	H601444.5
#2	-1.02352	2.031323	4.975151	112.9450	1.648373	-.367673	H595840.9
#3	-1.02202	2.289920	-13.6689	105.1776	2.112858	-.369747	H591787.5
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.086101	L-11.5621	-.697082	-4.24613	-.379357	4.840109	-.253399
SDEV	.504189	2.1417	.394319	.25016	.430890	2.078419	1.423865
%RSD	585.5788	18.52356	56.56702	5.891535	113.5841	42.94157	561.9065
#1	.4291552	L-12.5999	-.275964	-4.00786	-.498645	3.980380	1.305256
#2	-.109017	-9.09916	-1.05758	-4.22383	.0986088	7.210456	-1.48587
#3	-.578441	L-12.9871	-.757702	-4.50669	-.738036	3.329490	-.579584
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.553549	.2506142	-.699246	-.113572	-.328169	8.394428	3.060651
SDEV	1.417958	2.248064	.477992	1.787075	2.312249	6.918316	4.934172
%RSD	55.52894	897.0217	68.35816	1573.521	704.5905	82.41557	161.2132
#1	3.161899	-.242700	-.632048	.5465057	1.679065	16.15343	-2.10202
#2	3.565823	2.704367	-1.20728	1.249570	-2.85650	6.161590	7.729134
#3	.9329243	-1.70982	-.258409	-2.13679	.1929290	2.868264	3.554835
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	10.00000
LOW	-10.0000

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	7.451774	-7.27295	-.873561	-6.50594	9.002252	2448.955
SDEV	4.892036	3.71946	.857318	8.80982	.384479	18.585
%RSD	65.64928	51.14107	98.14052	135.4119	4.270922	.7588984
#1	7.668988	-6.97910	.0685748	3.307027	9.440541	2430.867
#2	12.23159	-3.70912	-1.60784	-9.09033	8.721863	2448.000
#3	2.454749	-11.1306	-1.08142	-13.7345	8.844351	2468.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0033023-BLK2 OPERATOR:
RUN TIME: 04/06/10 11:12:55
COMMENT: SDG:MB81Y0 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3809302	-71.4601	-.470665	-.478611	34.13155	-.243847	-.640082
SDEV	.2654510	1.5960	.098697	.017808	51.05530	.104314	.657164
%RSD	69.68494	2.233374	20.96963	3.720713	149.5839	42.77868	102.6686
#1	.6804296	-72.7291	-.364798	-.494377	93.08513	-.183178	.1185222
#2	.2876540	-71.9829	-.487060	-.482159	4.650713	-.184064	-1.00347
#3	.1747068	-69.6683	-.560138	-.459296	4.658793	-.364298	-1.03530
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	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.946095	1.718571	-2.23246	-4.06772	-.103903	-.379072	-46.5306
SDEV	.293302	.197731	3.75687	7.52764	4.462075	.022111	201.6139
%RSD	31.00137	11.50552	168.2838	185.0579	4294.477	5.832948	433.2933
#1	-.622275	1.922751	2.089958	4.043423	4.936204	-.365126	141.8905
#2	-1.19392	1.704970	-4.71243	-5.41730	-1.69761	-.367524	-22.3296
#3	-1.02209	1.527992	-4.07492	-10.8293	-3.55030	-.404566	-259.153
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.501404	-6.85003	-.577566	-4.24451	1.019316	4.721794	.0240518
SDEV	.465113	3.72637	.313529	.11388	.305445	1.495478	1.942479
%RSD	92.76216	54.39928	54.28460	2.682936	29.96568	31.67182	8076.239
#1	-.470085	-2.79149	-.271357	-4.14246	1.160146	5.958421	2.067200
#2	-.052742	L-10.1170	-.563405	-4.22371	1.228941	5.147280	-.196035
#3	-.981385	-7.64155	-.897936	-4.36735	.6688625	3.059680	-1.79901
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.178707	1.218891	.9140946	-1.28931	.6747867	7.957317	3.101493
SDEV	1.322801	1.869395	1.343918	4.08280	2.628858	4.672546	2.945838
%RSD	112.2247	153.3685	147.0217	316.6646	389.5835	58.72012	94.98131
#1	2.674169	-.559199	2.012896	2.485623	1.853296	12.32899	2.772904
#2	.1617233	1.048014	1.313688	-5.62252	2.508181	3.033045	6.197848
#3	.7002291	3.167859	-.584301	-.731041	-2.33712	8.509913	.3337253
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	5.223108	-5.97030	-.981489	-11.6423	-1.27028	2448.178
SDEV	.685637	2.91051	.465924	3.4054	.31160	20.424
%RSD	13.12698	48.74982	47.47110	29.25035	24.53015	.8342709
#1	4.670189	-3.17962	-.604882	-8.85880	-.967529	2427.200
#2	5.990290	-8.98742	-1.50252	-10.6286	-1.59004	2449.333
#3	5.008846	-5.74386	-.837061	-15.4394	-1.25329	2468.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0033023-BS1 OPERATOR:
RUN TIME: 04/06/10 11:19:55
COMMENT: SDG:MB81Y0 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	540.0270	2487.405	521.5119	504.3951	10096.38	522.9993	515.9500
SDEV	1.0292	28.787	4.5057	5.2220	128.09	5.0866	4.9755
%RSD	.1905885	1.157301	.8639755	1.035295	1.268636	.9725751	.9643460
#1	538.9080	2461.705	517.3127	499.1156	9962.895	517.9803	510.6200
#2	540.9332	2518.512	526.2717	509.5576	10107.95	528.1508	520.4722
#3	540.2397	2481.999	520.9512	504.5120	10218.28	522.8668	516.7578
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	523.4180	542.0308	5122.367	9274.961	5887.541	504.3836	10474.23
SDEV	6.2006	1.5787	55.855	73.816	57.185	4.7369	29.49
%RSD	1.184631	.2912545	1.090411	.7958676	.9712814	.9391526	.2815957
#1	517.3719	541.2083	5064.668	9217.022	5833.356	499.6304	10442.38
#2	529.7623	543.8509	5176.175	9358.070	5947.315	509.1041	10479.71
#3	523.1197	541.0332	5126.257	9249.790	5881.950	504.4163	10500.60
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	524.1930	1056.899	516.0005	1022.469	1045.390	1046.618	1019.306
SDEV	4.9998	14.432	4.8846	10.669	8.160	11.620	7.608
%RSD	.9538075	1.365539	.9466175	1.043428	.7805612	1.110227	.7464122
#1	519.7838	1048.151	510.9172	1012.083	1036.233	1033.210	1013.806
#2	529.6252	1073.557	520.6585	1033.399	1051.891	1052.895	1027.988
#3	523.1701	1048.989	516.4260	1021.924	1048.046	1053.750	1016.122
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1018.249	1058.419	1038.707	1026.896	1015.511	1046.967	1046.440
SDEV	8.729	6.027	9.371	11.117	5.999	13.532	10.670
%RSD	.8572713	.5694088	.9022206	1.082567	.5907664	1.292485	1.019629
#1	1008.341	1051.465	1028.452	1020.599	1010.410	1031.342	1034.138
#2	1024.805	1061.676	1046.826	1039.732	1022.121	1054.669	1052.005
#3	1021.601	1062.116	1040.843	1020.357	1014.003	1054.890	1053.176
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1195.000						
LOW	797.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.817633	-2.36193	-.514683	-.561258	L-.754699	2433.044
SDEV	2.672944	.77287	1.209122	4.284384	.389191	17.338
%RSD	326.9124	32.72206	234.9255	763.3542	51.56897	.7126226
#1	-2.33263	-3.21885	-1.17629	-1.37045	L-1.07648	2450.133
#2	-2.38891	-1.71761	.8808662	4.070021	L-.322126	2415.467
#3	2.268646	-2.14933	-1.24863	-4.38335	L-.865487	2433.533
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC LOW	NOCHECK
HIGH					1200.000	
LOW					800.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003143-04 OPERATOR:
RUN TIME: 04/06/10 11:26:56
COMMENT: SDG:MB81Y0 CLIENTID:MB8275 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.729564	518.8884	480.4373	.3424973	112731.4	.9469646	28.42078
SDEV	.324282	22.4741	1.3475	.0390677	541.5	.1586144	.26488
%RSD	11.88036	4.331202	.2804661	11.40672	.4803826	16.74977	.9319887
#1	3.009603	542.6849	478.9757	.3863132	112992.8	.9092989	28.51025
#2	2.374271	515.9556	480.7060	.3298850	112108.8	.8105733	28.12275
#3	2.804817	498.0246	481.6301	.3112936	113092.7	1.121021	28.62933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.988754	8.729182	21823.23	10713.27	38995.48	3326.053	H1430683.
SDEV	.163180	.549157	47.76	88.02	83.45	6.587	10556.
%RSD	2.724768	6.291052	.2188315	.8215804	.2140099	.1980470	.7378363
#1	6.030873	8.280227	21870.41	10634.57	39091.85	3321.960	H1420066.
#2	6.126744	8.565842	21774.92	10696.94	38947.31	3322.547	H1430806.
#3	5.808643	9.341478	21824.36	10808.31	38947.29	3333.652	H1441177.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	61.60535	L-17.3455	11.30662	77.67132	37.73205	13.77787	.2896794
SDEV	1.19259	1.6419	.22485	.20699	1.40748	3.06541	1.287804
%RSD	1.935847	9.466029	1.988673	.2664925	3.730196	22.24879	444.5618
#1	62.59436	L-18.2721	11.34277	77.90873	39.16560	17.31642	.0583253
#2	60.28099	L-18.3147	11.06588	77.52873	37.67837	12.08454	-.866766
#3	61.94071	L-15.4497	11.51120	77.57649	36.35218	11.93266	1.677478
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	17.35945	38.17323	37.50531	2.713618	-.925462	31.70116	4.824676
SDEV	1.90622	2.90641	.89783	1.561487	1.504595	4.32786	4.747458
%RSD	10.98086	7.613739	2.393869	57.54263	162.5777	13.65204	98.39951
#1	16.23342	41.49626	37.99548	1.228342	-.530840	32.64118	9.660492
#2	16.28457	36.91834	38.05136	2.570981	-2.58804	26.98055	4.642729
#3	19.56036	36.10510	36.46909	4.341529	.3424956	35.48175	.1708078
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	16.34464	-1.57928	-2.65850	1.295023	234.4401	2436.622
SDEV	3.55108	3.10371	.74232	4.759171	1.4595	19.458
%RSD	21.72628	196.5272	27.92240	367.4969	.6225519	.7985513
#1	17.02728	-5.13549	-2.39950	6.779096	236.0312	2415.200
#2	12.50179	-.185934	-3.49562	-1.14137	233.1635	2441.467
#3	19.50485	.5835896	-2.08038	-1.75265	234.1256	2453.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0033023-DUP1 OPERATOR:
RUN TIME: 04/06/10 11:33:56
COMMENT: SDG:MB81Y0 CLIENTID:MB8275D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.276294	574.8696	481.2980	.4777251	111193.7	.4099133	27.44205
SDEV	.228019	10.3129	4.6784	.0484522	1558.2	.2362756	.14310
%RSD	17.86571	1.793948	.9720465	10.14228	1.401319	57.64037	.5214553
#1	1.199654	563.4904	486.2172	.4242727	112860.8	.3751023	27.60320
#2	1.096468	583.5991	480.7719	.5187604	110946.3	.6616632	27.32985
#3	1.532759	577.5193	476.9048	.4901423	109774.0	.1929744	27.39311
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.075089	7.867457	21773.16	10782.14	38744.99	3287.967	H1405009.
SDEV	.634645	.417355	238.99	116.45	483.99	45.359	16719.
%RSD	12.50510	5.304833	1.097653	1.080006	1.249167	1.379543	1.189957
#1	4.600931	8.307485	22009.94	10909.03	39243.11	3336.054	H1423457.
#2	5.796064	7.817641	21777.53	10757.24	38715.35	3281.900	H1400712.
#3	4.828273	7.477245	21532.02	10680.16	38276.50	3245.947	H1390857.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	62.29228	L-25.4558	11.09212	76.50880	36.21930	14.69579	-.474375
SDEV	.74089	4.0548	.52106	.82299	.39997	4.83857	.475518
%RSD	1.189384	15.92888	4.697534	1.075676	1.104307	32.92485	100.2410
#1	62.58757	L-23.0928	11.48104	77.28335	36.65232	19.83863	-1.02333
#2	62.84000	L-23.1368	11.29522	76.59836	36.14188	10.23357	-.189530
#3	61.44927	L-30.1379	10.50010	75.64470	35.86370	14.01517	-.210269
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	16.86753	39.58119	34.53445	-.322851	-.554968	27.92085	8.088227
SDEV	1.48321	3.15765	1.94204	3.263718	2.285882	5.48343	5.876718
%RSD	8.793309	7.977648	5.623472	1010.905	411.8943	19.63919	72.65768
#1	15.56634	36.80022	36.57200	2.983062	-3.02851	29.78200	14.86940
#2	18.48254	43.01383	32.70463	-3.54267	1.479580	21.74908	4.479500
#3	16.55370	38.92953	34.32673	-.408946	-.115974	32.23146	4.915781
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	19.45480	-7.88345	-2.48703	-9.56318	237.7494	2458.222
SDEV	1.19805	2.35893	.12897	5.07810	1.6513	24.537
%RSD	6.158098	29.92253	5.185871	53.10056	.6945437	.9981595
#1	18.14068	-5.23257	-2.43941	-14.3246	239.3484	2433.933
#2	19.73750	-9.75125	-2.63304	-4.21874	237.8494	2457.733
#3	20.48621	-8.66654	-2.38864	-10.1462	236.0504	2483.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0033023-MS1 OPERATOR:
RUN TIME: 04/06/10 11:51:07
COMMENT: SDG:MB81Y0 CLIENTID:MB8275S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	46.63691	2367.204	2186.238	40.74622	105797.1	42.16977	439.5314
SDEV	.81784	22.744	15.744	.58400	1615.2	.84828	6.8103
%RSD	1.753625	.9608021	.7201187	1.433254	1.526695	2.011588	1.549449
#1	47.45674	2392.030	2204.207	41.32918	107460.8	43.10868	446.4824
#2	46.63290	2362.209	2179.641	40.74829	105695.4	41.94201	439.2408
#3	45.82108	2347.372	2174.866	40.16119	104235.2	41.45862	432.8711
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	176.8140	235.9937	21887.33	10316.49	37276.84	3547.284	H1340208.
SDEV	3.5073	.7881	266.44	52.69	489.71	45.129	8986.
%RSD	1.983636	.3339482	1.217322	.5107221	1.313721	1.272206	.6705281
#1	180.6629	235.5468	22164.04	10376.71	37786.00	3595.532	H1350128.
#2	175.9809	235.5307	21865.43	10293.84	37235.30	3540.211	H1337886.
#3	173.7983	236.9037	21632.51	10278.90	36809.22	3506.109	H1332611.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	484.4635	18.19281	431.5173	488.8919	52.54462	68.01201	86.56663
SDEV	8.1461	6.48860	5.4278	5.9468	2.19567	3.06098	.39412
%RSD	1.681466	35.66576	1.257848	1.216374	4.178675	4.500642	.4552791
#1	493.6211	24.41878	437.5040	495.2115	52.84565	68.48450	86.45057
#2	481.7455	11.47012	430.1305	488.0582	54.57425	64.74226	87.00575
#3	478.0238	18.68951	426.9174	483.4060	50.21397	70.80927	86.24357
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	52.36900	54.49422	51.56594	87.22831	86.23135	85.21954	59.41610
SDEV	2.32425	3.71141	4.43137	2.54592	.95663	4.54055	2.48685
%RSD	4.438226	6.810643	8.593597	2.918684	1.109373	5.328060	4.185484
#1	51.46566	50.44896	54.03657	88.73766	85.30373	84.47443	60.49641
#2	55.00931	55.29152	54.21123	88.65838	86.17574	81.09763	56.57179
#3	50.63203	57.74218	46.45003	84.28889	87.21456	90.08656	61.18010
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	17.88392	-5.93994	-2.60039	-2.65244	235.5200	2465.555
SDEV	5.17607	3.25930	.08328	11.40820	2.6751	31.813
%RSD	28.94262	54.87096	3.202523	430.1023	1.135823	1.290292
#1	21.20517	-5.87676	-2.66161	9.569733	238.0745	2432.800
#2	20.52663	-2.71269	-2.50556	-4.50783	235.7468	2467.533
#3	11.91996	-9.23038	-2.63401	-13.0192	232.7387	2496.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: SDI1003143-04 OPERATOR:
RUN TIME: 04/06/10 11:58:07
COMMENT: SDG:MB81Y0 CLIENTID:MB8275L 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.502733	67.14295	92.96988	-.194465	22056.88	.1795250	5.480733
SDEV	.803608	29.77797	2.16088	.209734	562.33	.2372722	.674650
%RSD	53.47642	44.35010	2.324275	107.8516	2.549475	132.1666	12.30948
#1	.6583772	46.14339	95.38920	-.358628	22706.02	-.059296	5.325170
#2	1.591619	54.06327	91.23149	-.266579	21745.67	.1826531	4.897454
#3	2.258202	101.2222	92.28895	.0418116	21718.94	.4152177	6.219576
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.267441	3.043756	4360.884	1402.780	7808.920	642.9265	391439.2
SDEV	.974793	.350452	74.822	39.734	162.678	15.2814	10123.4
%RSD	76.91035	11.51379	1.715750	2.832514	2.083232	2.376848	2.586209
#1	.2313425	2.984637	4436.353	1439.851	7992.753	660.5520	402721.7
#2	1.404574	3.420006	4286.727	1360.833	7683.564	633.3882	388446.2
#3	2.166406	2.726623	4359.573	1407.656	7750.443	634.8392	383149.7
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	13.20580	-3.74781	2.264185	11.43267	7.511938	4.708096	2.895201
SDEV	.41606	3.57695	.812576	.31090	2.462160	2.042007	1.876429
%RSD	3.150559	95.44116	35.88821	2.719367	32.77662	43.37225	64.81171
#1	12.74486	-6.63274	1.782496	11.73183	9.361742	4.815906	.9754311
#2	13.31897	-4.86512	1.807706	11.11124	4.717304	2.614320	2.985115
#3	13.55356	.2544352	3.202354	11.45493	8.456769	6.694063	4.725056
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.323309	6.321983	8.100531	4.489497	2.094374	7.086937	3.515585
SDEV	2.928107	10.07314	1.431143	9.593366	4.589539	4.627798	.934143
%RSD	221.2716	159.3351	17.66727	213.6847	219.1366	65.30040	26.57148
#1	.4550118	14.87797	6.602189	-3.86091	3.385013	8.434731	3.004242
#2	4.587360	-4.77982	9.453356	14.96833	-3.00230	1.934859	2.948748
#3	-1.07245	8.867805	8.246046	2.361073	5.900410	10.89122	4.593764
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.568249	-2.80776	-.795485	4.539184	46.59092	2493.311
SDEV	2.967212	3.68741	1.070486	17.22040	.43908	42.799
%RSD	115.5344	131.3296	134.5702	379.3721	.9424073	1.716546
#1	3.955780	.5845355	-1.58154	-14.4625	46.69403	2448.933
#2	-.838525	-6.73242	-1.22861	8.966060	46.10946	2534.333
#3	4.587493	-2.27538	.4236953	19.11396	46.96926	2496.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0033023-PS1 OPERATOR:
RUN TIME: 04/06/10 12:16:13
COMMENT: SDG:MB81Y0 CLIENTID:MB8275A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.49174	559.9245	433.5797	10.23997	99237.10	10.42511	124.5394
SDEV	1.34089	31.8471	2.1511	.13857	849.03	.04115	.6152
%RSD	5.961709	5.687746	.4961237	1.353219	.8555535	.3946964	.4939865
#1	23.16562	532.6309	434.5456	10.15690	100198.9	10.47238	125.2219
#2	23.36203	552.2281	431.1149	10.16308	98920.82	10.39735	124.0274
#3	20.94757	594.9145	435.0784	10.39994	98591.62	10.40559	124.3688
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	25.72341	61.56878	19678.58	9538.850	34879.80	2960.825	H1280878.
SDEV	.57804	.91352	67.93	62.471	168.76	18.248	12193.
%RSD	2.247149	1.483732	.3452026	.6549072	.4838389	.6163025	.9518949
#1	25.17802	62.16273	19695.98	9516.147	35044.29	2981.892	H1294378.
#2	26.32934	62.02673	19603.64	9490.905	34707.07	2949.974	H1277590.
#3	25.66286	60.51687	19736.12	9609.497	34888.03	2950.608	H1270667.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	137.4187	32.50962	111.6331	185.5726	52.97729	96.34715	123.7030
SDEV	1.7999	2.73074	.5431	1.0104	1.16742	3.56291	3.4847
%RSD	1.309791	8.399805	.4864901	.5444696	2.203628	3.697996	2.817020
#1	136.7332	34.42704	111.2462	185.5752	52.53137	92.32065	120.0502
#2	136.0622	33.71876	111.3991	184.5609	52.09856	99.09170	124.0678
#3	139.4606	29.38305	112.2539	186.5816	54.30195	97.62912	126.9910
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	38.48372	57.00815	50.95881	124.3216	123.3893	115.9662	86.54732
SDEV	1.33480	.64792	1.62056	2.0254	4.6341	12.1113	10.96062
%RSD	3.468491	1.136548	3.180137	1.629146	3.755671	10.44378	12.66431
#1	36.96820	56.26975	50.65893	123.6941	118.2262	129.1309	73.93809
#2	38.99838	57.27305	49.50914	122.6843	124.7537	113.4703	91.90816
#3	39.48459	57.48165	52.70837	126.5865	127.1880	105.2973	93.79569
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	13.27336	-2.25971	-2.60909	-4.09498	216.2536	2499.689
SDEV	7.33952	1.89499	.83594	5.77526	1.5980	17.590
%RSD	55.29512	83.85984	32.03944	141.0326	.7389288	.7037030
#1	19.70155	-4.21594	-1.88562	-6.99815	215.5031	2509.000
#2	5.276238	-2.13066	-2.41743	2.555864	215.1691	2510.666
#3	14.84229	-.432548	-3.52421	-7.84265	218.0887	2479.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

ANALYSIS REPORT QC STANDARD 04/06/10 12:30:12 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 04/06/10 12:23:14
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	101.3411	49636.99	1029.582	970.7678	48102.98	1028.051	993.0692
SDEV	.9649	567.13	10.265	16.2650	582.66	13.647	14.5631
%RSD	.9521263	1.142556	.9969819	1.675482	1.211284	1.327459	1.466470
#1	102.1723	50250.20	1040.945	987.9099	48664.78	1041.655	1008.517
#2	100.2830	49131.34	1020.979	955.5512	47501.48	1014.362	979.5919
#3	101.5679	49529.43	1026.823	968.8425	48142.68	1028.137	991.0984
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1036.265	1051.046	25257.54	49389.61	46199.42	973.7935	47771.78
SDEV	13.585	5.967	288.26	453.25	559.62	13.7796	1078.75
%RSD	1.310973	.5677604	1.141277	.9177023	1.211313	1.415048	2.258128
#1	1050.311	1057.827	25542.54	49891.81	46781.36	988.6423	48978.76
#2	1023.193	1046.593	24966.13	49010.91	45665.17	961.4179	46901.64
#3	1035.293	1048.719	25263.96	49266.11	46151.73	971.3204	47434.94
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1038.613	1036.802	1004.542	1109.926	1026.187	1031.059	1014.330
SDEV	11.003	19.047	13.960	13.494	13.108	7.662	6.072
%RSD	1.059378	1.837105	1.389703	1.215758	1.277370	.7431328	.5986508
#1	1049.985	1058.782	1019.855	1124.413	1041.163	1039.263	1021.072
#2	1028.021	1026.490	992.5242	1097.714	1016.799	1029.827	1009.291
#3	1037.832	1025.134	1001.247	1107.652	1020.597	1024.088	1012.628
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1017.896	1014.501	1032.013	972.8493	1035.034	1029.693	1031.736
SDEV	13.440	14.425	12.923	10.5196	3.941	8.836	8.934
%RSD	1.320372	1.421857	1.252166	1.081316	.3807812	.8580830	.8659534
#1	1029.180	1029.591	1046.933	984.0419	1039.554	1039.081	1039.348
#2	1003.027	1000.849	1024.756	963.1658	1032.314	1021.539	1033.959
#3	1021.481	1013.065	1024.351	971.3403	1033.236	1028.460	1021.900
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	984.9525	1026.393	1014.781	992.5610	1031.495	2449.733
SDEV	8.3712	9.531	10.340	15.3440	7.357	19.793
%RSD	.8499045	.9286239	1.018977	1.545904	.7132679	.8079624
#1	990.0770	1036.383	1024.624	1004.016	1038.352	2428.200
#2	975.2923	1017.399	1004.007	975.1277	1023.723	2467.133
#3	989.4882	1025.395	1015.713	998.5388	1032.411	2453.867
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 04/06/10 12:30:16
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.12664	-4.00520	-.784836	-.059993	4.595427	-.475847	-1.97013
SDEV	1.70434	26.76765	.291881	.174882	.063784	.372923	1.34049
%RSD	80.14249	668.3227	37.19007	291.5026	1.387990	78.37044	68.04076
#1	-3.88205	21.39474	-1.11903	.0999149	4.536224	-.857809	-3.44033
#2	-2.01943	-1.45264	-.655572	-.033150	4.587084	-.457058	-1.65433
#3	-.478429	-31.9577	-.579908	-.246745	4.662972	-.112673	-.815739
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.50428	-.812379	-25.0904	-26.1167	-5.76901	-.464535	-653.734
SDEV	.86620	1.171377	19.3622	22.4118	8.79819	.121210	489.503
%RSD	57.58228	144.1910	77.16979	85.81396	152.5078	26.09268	74.87801
#1	-2.13579	-1.95569	-45.6281	-51.9888	-15.5838	-.579659	-1209.23
#2	-1.86023	-.866630	-22.4733	-12.6687	-3.13325	-.475905	-466.440
#3	-.516813	.3851811	-7.16987	-13.6925	1.410035	-.338041	-285.533
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.45000	-3.08302	-1.80926	-4.78343	-.332729	-.255315	-.117864
SDEV	1.39983	4.83533	1.26585	.06439	.944867	5.421767	1.415550
%RSD	96.53955	156.8373	69.96511	1.346045	283.9753	2123.564	1201.004
#1	-3.05938	-1.51329	-3.24857	-4.84595	.0510150	2.213434	-1.74522
#2	-.515162	-8.50819	-1.31018	-4.71732	.3598934	Q-6.47211	.8283067
#3	-.775467	.7724094	-.869019	-4.78702	-1.40909	3.492732	.5633264
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-4.36754	-7.71391	3.347057	5.787060	-3.07077	-4.28773	1.753001
SDEV	.49756	12.49404	6.733646	7.564968	5.86988	7.69931	6.768357
%RSD	11.39228	161.9675	201.1811	130.7221	191.1535	179.5663	386.1012
#1	-3.88359	-22.0597	11.08434	14.12932	-9.67545	-9.08687	7.850263
#2	-4.34136	.7816509	.1438451	-.627683	1.550334	-8.36932	-5.52980
#3	-4.87768	-1.86368	-1.18702	3.859547	-1.08719	4.593016	2.938542
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-4.43226	-15.2479	-.662267	-26.2020	-.649096	2495.666
SDEV	1.66063	10.4605	.219893	17.4576	.669479	5.980
%RSD	37.46691	68.60309	33.20304	66.62685	103.1402	.2396299
#1	-3.40188	-27.3206	-.832893	Q-45.5021	-1.14462	2502.533
#2	-6.34795	-8.88022	-.739798	-21.5915	-.915181	2491.600
#3	-3.54693	-9.54286	-.414111	-11.5125	.1125171	2492.867
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1003143-01 OPERATOR:
RUN TIME: 04/06/10 12:37:16
COMMENT: SDG:MB81Y0 CLIENTID:MB81Y0 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.60080	5948.822	535.7464	3.568077	157827.0	-1.25827	13.15578
SDEV	.56277	35.125	3.3480	.106611	2315.7	.09177	.56071
%RSD	35.15577	.5904474	.6249158	2.987920	1.467208	7.293356	4.262119
#1	-1.31086	5988.438	539.5286	3.447368	160500.8	-1.33995	12.53012
#2	-1.24212	5921.484	533.1623	3.607502	156510.8	-1.15897	13.61288
#3	-2.24942	5936.544	534.5483	3.649360	156469.4	-1.27590	13.32433
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	160.5617	.2592413	101468.9	11586.02	70911.62	1738.298	98617.48
SDEV	1.5034	.6589854	690.3	25.43	654.04	18.720	1184.32
%RSD	.9363563	254.1977	.6802900	.2194720	.9223290	1.076923	1.200923
#1	162.0837	.5408536	102238.1	11609.68	71665.28	1759.913	99977.09
#2	160.5240	.7306302	100903.4	11559.13	70492.88	1727.669	98064.92
#3	159.0776	-.493760	101265.2	11589.24	70576.69	1727.312	97810.41
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	263.5470	L-19.2109	135.9646	250.1362	13.84389	26.14368	3.527030
SDEV	1.3407	3.4779	1.1323	2.4911	.52555	.27762	1.586502
%RSD	.5087071	18.10392	.8327548	.9958953	3.796280	1.061914	44.98126
#1	265.0821	L-22.4778	137.2679	252.9986	14.03890	26.19343	2.616867
#2	262.6058	L-15.5547	135.2230	248.4590	14.24406	25.84455	5.358953
#3	262.9532	L-19.6003	135.4029	248.9509	13.24870	26.39307	2.605270
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	13.94405	15.83292	12.84370	8.428371	1.075021	50.07134	14.19278
SDEV	.89019	4.06900	1.34933	3.364076	1.914174	.85551	.60906
%RSD	6.384017	25.69965	10.50580	39.91371	178.0592	1.708584	4.291312
#1	14.03007	19.01524	11.54724	4.575038	1.634187	51.03976	13.78382
#2	13.01397	17.23532	12.74355	10.78032	2.647347	49.75601	13.90176
#3	14.78811	11.24820	14.24033	9.929752	-1.05647	49.41825	14.89275
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	11.09031	-6.69527	-5.21288	-.926671	344.0826	2427.267
SDEV	2.72902	2.12180	.06910	7.334375	1.9057	20.927
%RSD	24.60727	31.69098	1.325544	791.4753	.5538490	.8621736
#1	14.15996	-7.59777	-5.25523	.9152822	345.3750	2403.133
#2	8.938646	-8.21662	-5.13314	5.311155	341.8940	2440.400
#3	10.17232	-4.27142	-5.25026	-9.00645	344.9788	2438.267
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1003143-02 OPERATOR:
RUN TIME: 04/06/10 12:44:16
COMMENT: SDG:MB81Y0 CLIENTID:MB81Y6 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.80945	1488.325	375.0796	1.712881	48351.07	.6491931	15.38997
SDEV	.20750	17.848	2.0786	.082854	182.31	.1936991	.26990
%RSD	11.46745	1.199200	.5541781	4.837137	.3770615	29.83691	1.753772
#1	-1.87599	1497.591	377.2508	1.675467	48365.16	.4319725	15.09186
#2	-1.57684	1467.750	373.1079	1.655331	48162.12	.7116430	15.61774
#3	-1.97551	1499.635	374.8800	1.807844	48525.93	.8039637	15.46031
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	37.41550	1.048311	45120.77	8683.973	15712.96	206.7045	H1299210.
SDEV	.23735	.196976	189.62	57.965	67.17	.8717	7238.
%RSD	.6343543	18.78988	.4202474	.6674942	.4274810	.4217372	.5570909
#1	37.44574	.8214179	45182.49	8687.908	15772.29	207.6061	H1307493.
#2	37.16448	1.148001	44907.98	8624.141	15640.03	205.8661	H1294102.
#3	37.63627	1.175515	45271.84	8739.870	15726.54	206.6412	H1296037.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	49.99577	L-22.8244	42.26960	577.5199	174.3324	21.88823	1.675864
SDEV	.39967	3.3542	.57870	2.9870	.7265	3.32910	1.222772
%RSD	.7993997	14.69559	1.369063	.5172126	.4167402	15.20954	72.96366
#1	50.45275	L-24.6910	41.84741	579.8134	174.3794	21.72803	.8066680
#2	49.71153	L-18.9521	42.03214	574.1422	173.5836	25.29454	1.146851
#3	49.82302	L-24.8301	42.92926	578.6041	175.0343	18.64213	3.074072
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.23043	181.0205	170.9882	.2503464	2.382759	42.34344	11.67117
SDEV	2.23063	6.5096	2.9394	2.671041	1.198155	8.78562	3.88396
%RSD	11.59947	3.596061	1.719039	1066.938	50.28434	20.74848	33.27827
#1	16.84219	187.9461	167.6002	-2.77471	2.589802	49.64323	7.786495
#2	21.25997	175.0274	172.8579	1.242048	1.094575	44.79451	15.55442
#3	19.58913	180.0881	172.5064	2.283696	3.463900	32.59257	11.67260
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	10.39580	-6.59653	-2.07975	-5.10824	210.6725	2534.266
SDEV	2.53197	.86217	.87699	5.30829	.9023	33.362
%RSD	24.35572	13.07011	42.16774	103.9163	.4282823	1.316434
#1	12.84211	-6.87664	-2.62687	-11.2259	210.9921	2496.133
#2	7.786079	-5.62913	-2.54417	-2.37845	209.6540	2558.066
#3	10.55923	-7.28381	-1.06823	-1.72033	211.3715	2548.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1003143-03 OPERATOR:
RUN TIME: 04/06/10 12:51:16
COMMENT: SDG:MB81Y0 CLIENTID:MB8204 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.893161	6373.936	456.3116	3.693802	117940.4	-1.37374	6.985875
SDEV	.847062	49.596	4.0141	.191389	1736.6	.26009	.379478
%RSD	94.83868	.7781107	.8796949	5.181347	1.472436	18.93270	5.432075
#1	.0292259	6401.073	456.3189	3.845408	117923.0	-1.29517	7.422084
#2	-1.63616	6316.693	452.2938	3.757252	116212.5	-1.66405	6.803750
#3	-1.07255	6404.043	460.3221	3.478746	119685.6	-1.16200	6.731790
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	216.3246	10.36368	120919.1	11540.39	53878.85	594.7007	63010.92
SDEV	2.2881	.69215	994.6	31.88	491.53	7.1924	1243.13
%RSD	1.057725	6.678659	.8225260	.2762331	.9122803	1.209415	1.972878
#1	218.1479	10.60423	121497.9	11559.94	53992.31	594.5095	62299.66
#2	213.7570	9.583341	119770.7	11503.61	53340.52	587.6059	62286.76
#3	217.0691	10.90346	121488.7	11557.63	54303.73	601.9869	64446.34
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	280.4133	L-24.3931	83.77552	49.62935	19.78129	22.84046	4.299139
SDEV	1.8682	6.3553	.81234	.45160	.91362	3.41704	1.974438
%RSD	.6662201	26.05377	.9696665	.9099474	4.618610	14.96046	45.92636
#1	282.2224	L-25.0082	84.34952	49.72067	19.70356	22.38810	4.838707
#2	278.4912	L-17.7526	82.84603	49.13907	18.90902	19.67213	5.947703
#3	280.5264	L-30.4185	84.13102	50.02831	20.73129	26.46114	2.111008
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	12.33032	32.55848	13.39478	2.237048	5.323629	50.92725	8.813102
SDEV	1.25411	3.59544	3.15090	2.211723	3.380045	2.92616	5.607729
%RSD	10.17098	11.04303	23.52334	98.86792	63.49137	5.745758	63.62947
#1	11.04098	32.10832	13.50239	4.523813	4.990916	54.29195	6.455095
#2	12.40400	36.35781	10.19146	.1089075	8.857728	49.51229	4.769415
#3	13.54597	29.20932	16.49050	2.078425	2.122245	48.97752	15.21479
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	10.50677	-7.90688	-4.02682	4.945024	393.2477	2427.977
SDEV	.75852	4.59340	.33388	14.64282	3.1491	8.708
%RSD	7.219373	58.09376	8.291491	296.1123	.8007916	.3586429
#1	11.06419	-4.22297	-3.67657	21.77286	396.3540	2431.467
#2	9.642981	-6.44415	-4.34149	-2.04401	390.0575	2434.400
#3	10.81315	L-13.0535	-4.06239	-4.89377	393.3317	2418.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032253-PS1 OPERATOR:
RUN TIME: 04/06/10 13:06:44
COMMENT: SDG:1003156 CLIENTID:IC-9A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	18.49684	2450.216	633.6664	10.31353	19248.74	10.41492	112.3412
SDEV	.34451	51.443	12.1293	.16345	345.59	.13571	1.5190
%RSD	1.862546	2.099545	1.914141	1.584765	1.795376	1.303063	1.352174
#1	18.42789	2395.678	619.8301	10.17571	18864.78	10.40716	110.9386
#2	18.19201	2497.872	642.4655	10.49410	19534.87	10.28325	113.9547
#3	18.87061	2457.099	638.7034	10.27079	19346.56	10.55434	112.1303
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	24.28067	54.35655	8161.448	1383.426	5207.583	328.7508	14843.98
SDEV	.19238	1.56166	133.074	7.604	79.004	5.1868	174.32
%RSD	.7923111	2.873002	1.630525	.5496568	1.517101	1.577738	1.174319
#1	24.11367	52.59655	8022.965	1379.509	5125.827	323.1758	14645.27
#2	24.49103	54.89658	8288.358	1392.190	5283.513	333.4338	14971.14
#3	24.23730	55.57653	8173.020	1378.580	5213.410	329.6427	14915.51
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	91.06509	21.49936	107.0067	64.31193	8.734312	8.825919	122.7018
SDEV	1.67736	5.08158	1.1747	1.18672	1.279950	3.591520	1.5191
%RSD	1.841937	23.63597	1.097796	1.845256	14.65427	40.69287	1.238010
#1	90.15717	15.74949	105.7549	63.09026	8.299777	12.95423	121.4214
#2	93.00071	25.38757	108.0851	65.46030	7.728200	6.420007	124.3803
#3	90.03740	23.36101	107.1800	64.38524	10.17496	7.103520	122.3036
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.38271	11.26594	7.464202	117.6949	125.1965	4.061083	11.19981
SDEV	3.50629	4.58182	.952277	3.1646	1.2348	.427962	5.22215
%RSD	16.39778	40.66967	12.75792	2.688785	.9862993	10.53813	46.62714
#1	17.71715	7.774791	8.555685	114.1201	125.0617	4.409124	17.21542
#2	21.72659	9.568836	6.803006	120.1380	126.4932	3.583250	7.831255
#3	24.70438	16.45418	7.033915	118.8265	124.0346	4.190875	8.552750
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.178929	-4.98905	1.018523	43.59964	12.13945	2452.844
SDEV	3.163771	6.43147	.753667	5.96793	.10255	22.997
%RSD	268.3596	128.9117	73.99607	13.68802	.8447284	.9375458
#1	2.189433	-2.09179	.9339272	49.16271	12.16388	2454.200
#2	3.714008	-.515842	1.810919	37.29598	12.02689	2429.200
#3	-2.36665	L-12.3595	.3107232	44.34022	12.22757	2475.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032610-PS1 OPERATOR:
RUN TIME: 04/06/10 13:13:58
COMMENT: SDG:1003173 CLIENTID:MW-17A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.76582	1299.921	106.7846	.5665609	25576.42	-.205542	.1977515
SDEV	.87281	30.992	1.9504	.0538774	439.61	.154159	.1196136
%RSD	31.55683	2.384166	1.826451	9.509558	1.718812	75.00120	60.48680
#1	-1.97571	1293.032	105.9474	.5133252	25387.67	-.043901	.0622158
#2	-2.61905	1272.954	105.3927	.5652995	25262.71	-.221792	.2885404
#3	-3.70271	1333.779	109.0139	.6210579	26078.88	-.350931	.2424984
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.103746	1.330153	5900.816	1739.924	10814.60	19.56972	5025.697
SDEV	.367095	.534886	250.991	53.393	220.22	.27734	269.395
%RSD	33.25903	40.21236	4.253501	3.068715	2.036360	1.417196	5.360358
#1	1.507850	1.611326	6182.370	1696.320	10739.62	19.49194	4816.907
#2	.7908611	1.665811	5819.558	1723.979	10641.66	19.33958	4930.395
#3	1.012528	.7133215	5700.521	1799.473	11062.53	19.87765	5329.789
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.678594	-.664263	4.118821	35.84148	2.551115	.4777923	.7310647
SDEV	.137781	1.555499	.204929	1.01519	.207001	5.660357	3.459818
%RSD	5.143788	234.1692	4.975438	2.832452	8.114125	1184.690	473.2574
#1	2.611922	.8527694	4.130850	35.69520	2.497796	L-5.50721	4.297000
#2	2.837029	-2.25557	4.317471	34.90736	2.375990	5.745034	.5080401
#3	2.586830	-.589990	3.908143	36.92188	2.779559	1.195554	-2.61185
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.36390	8.930548	-.639922	-2.10655	2.142888	7.338654	-2.95235
SDEV	2.07349	5.226208	2.300078	4.76463	3.121932	5.046067	6.58883
%RSD	87.71477	58.52057	359.4311	226.1817	145.6881	68.76012	223.1723
#1	-.814297	8.053444	-.281982	1.489526	5.693742	1.628446	-9.07458
#2	-1.55807	4.198388	1.460202	-.298639	.9060113	9.189800	4.020470
#3	-4.71933	14.53981	-3.09798	-7.51053	-.171089	11.19772	-3.80295
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.1025206	-5.55395	-1.25693	-1.77815	10.57718	2503.133
SDEV	2.641187	1.46870	.53649	12.54802	.42922	41.924
%RSD	2576.251	26.44417	42.68262	705.6799	4.057994	1.674864
#1	-.671444	-7.03422	-.655900	5.765434	11.04749	2485.867
#2	-2.06522	-4.09710	-1.42747	5.163307	10.20662	2550.933
#3	3.044224	-5.53054	-1.68742	-16.2632	10.47741	2472.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

ANALYSIS REPORT QC STANDARD 04/06/10 01:31:00 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 04/06/10 13:24:03
COMMENT:
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	Q6.159632	58.44147	-.823551	5.081362	37.39014	4.671977	46.21572
SDEV	1.578706	4.47890	.286951	.106781	54.75653	.490873	2.36614
%RSD	25.62988	7.663913	34.84307	2.101422	146.4464	10.50675	5.119765
#1	7.288055	56.60088	-.612153	5.153529	5.803924	4.819267	47.93933
#2	Q6.835304	63.54743	-.708290	5.131859	5.748970	5.072343	47.18980
#3	Q4.355538	55.17611	-1.15021	4.958699	100.6175	4.124323	43.51803
ERRORS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.229912	22.26903	-22.8071	-20.5152	-6.69923	13.52092	-704.047
SDEV	1.395346	.85613	24.5937	15.1696	12.08536	.37558	455.594
%RSD	16.95457	3.844500	107.8334	73.94327	180.3993	2.777738	64.71075
#1	8.999298	22.68690	-9.99785	-8.95811	1.020237	13.89731	-320.722
#2	9.071198	22.83599	-7.26195	-14.8945	-.491026	13.51929	-583.680
#3	Q6.619240	21.28421	-51.1614	-37.6929	-20.6269	13.14616	-1207.74
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	39.62200	26.28331	46.51248	47.87477	10.66035	32.05539	59.32250
SDEV	2.68499	4.89098	2.03314	1.14530	.90223	3.81725	1.81753
%RSD	6.776516	18.60870	4.371176	2.392285	8.463369	11.90829	3.063814
#1	41.73434	31.84494	48.41807	49.03908	9.794890	27.67111	61.08981
#2	40.53120	22.65223	46.74720	47.83574	11.59532	34.64113	59.41907
#3	36.60046	24.35277	44.37216	46.74948	10.59085	33.85394	57.45860
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	Q6.787893	6.666427	12.64815	59.76147	59.09840	28.84095	33.65527
SDEV	1.758670	3.045809	2.82996	2.56592	2.58128	4.26091	6.42675
%RSD	25.90892	45.68879	22.37450	4.293600	4.367762	14.77381	19.09582
#1	7.970749	8.743733	10.31343	59.11996	62.06825	29.14946	26.92803
#2	7.625995	3.170020	15.79553	62.58728	57.83245	24.43417	39.73207
#3	Q4.766934	8.085529	11.83549	57.57718	57.39449	32.93922	34.30571
ERRORS	QC FAIL	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	45.86312	39.25187	48.02724	20.42337	48.53292	2461.733
SDEV	8.41282	8.77696	2.07233	24.79357	1.63157	28.078
%RSD	18.34332	22.36061	4.314904	121.3980	3.361784	1.140561
#1	55.55810	45.99678	49.98851	33.15468	49.48917	2429.600
#2	40.48556	42.43032	48.23387	36.26483	49.46057	2481.533
#3	41.54570	Q29.32849	45.85934	-8.14941	46.64901	2474.066
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 04/06/10 13:31:53
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	7.615823	73.65929	-.581088	5.064818	5.781842	4.987422	47.26276
SDEV	1.065425	30.45393	.099630	.174006	.039415	.133765	.30421
%RSD	13.98962	41.34431	17.14539	3.435587	.6817016	2.682050	.6436639
#1	7.901484	106.8859	-.616325	5.192713	5.792316	5.052321	47.13885
#2	8.509298	67.01779	-.468629	5.135073	5.814962	5.076357	47.60937
#3	Q6.436687	47.07419	-.658311	4.866668	5.738248	4.833588	47.04005
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.358760	23.58007	3.351133	-3.85655	18.21965	13.62451	-370.292
SDEV	.875616	.55608	25.78017	7.96172	13.04050	.19138	181.059
%RSD	9.356115	2.358277	769.2969	206.4469	71.57383	1.404643	48.89622
#1	9.487880	23.66617	17.84680	-12.7911	33.27030	13.75820	-550.549
#2	10.16265	24.08807	18.62049	-1.26518	11.09811	13.71005	-371.883
#3	8.425753	22.98595	-26.4139	2.486658	10.29053	13.40529	-188.443
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	39.91758	22.88364	47.74273	47.75241	9.544815	35.12902	60.71365
SDEV	.58224	2.14998	.22769	.65069	1.064404	6.24519	2.02229
%RSD	1.458602	9.395273	.4768999	1.362642	11.15165	17.77786	3.330862
#1	40.07499	25.35971	47.56590	48.27743	9.444755	37.29006	60.12548
#2	40.40494	21.48999	47.99964	47.02442	10.65572	40.00667	59.05065
#3	39.27283	21.80122	47.66267	47.95537	8.533975	28.09033	62.96482
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.946038	10.69934	8.962299	53.01654	64.55154	32.44015	36.46654
SDEV	2.690318	3.12665	1.052188	8.04539	2.94292	11.98694	3.90523
%RSD	27.04914	29.22284	11.74015	15.17524	4.559030	36.95093	10.70908
#1	7.431912	12.73120	7.797861	44.85894	67.74239	33.02087	39.41655
#2	12.78335	12.26791	9.844788	53.24586	61.94386	44.12619	37.94517
#3	9.622853	7.098916	9.244249	60.94481	63.96838	20.17341	32.03791
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	45.92022	42.92033	49.27610	38.75447	48.92466	2482.889
SDEV	4.64528	1.84888	.69238	22.62455	.87281	27.787
%RSD	10.11598	4.307698	1.405102	58.37920	1.783990	1.119126
#1	41.78114	43.69497	48.50433	47.29839	49.92840	2475.800
#2	50.94436	44.25588	49.48124	55.86291	48.34416	2513.533
#3	45.03516	40.81013	49.84272	13.10211	48.50143	2459.333
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 04/06/10 13:38:53
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.43501	251836.7	2.957859	1.179237	256708.9	-.923748	4.960555
SDEV	.61030	1451.2	.192283	.186390	2652.9	.359184	.667825
%RSD	42.52932	.5762370	6.500738	15.80594	1.033413	38.88337	13.46270
#1	-.976744	253280.8	3.152191	1.009757	259757.2	-.781643	5.297072
#2	-1.20050	250378.5	2.953693	1.149093	255447.1	-.657357	5.393177
#3	-2.12778	251850.7	2.767694	1.378862	254922.5	-1.33224	4.191416
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	243900.0	2.000000	.0000000	234100.0	.0000000	3.000000
RANGE	20.00000	49997.06	400.0000	10.00000	47990.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	48.01428	23.06980	106042.9	1.433649	263986.0	18.49203	478.5422
SDEV	.51118	.95512	528.4	13.68974	1400.4	.16389	226.3640
%RSD	1.064651	4.140110	.4983172	954.8881	.5304689	.8862674	47.30284
#1	48.55107	23.88169	106441.9	12.58801	265374.6	18.68117	689.0817
#2	47.95849	23.31029	105443.6	5.556686	262574.2	18.39224	507.4199
#3	47.53328	22.01742	106243.3	-13.8437	264009.2	18.40267	239.1250
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	36.00000	15.00000	94900.00	.0000000	248800.0	19.00000	.0000000
RANGE	20.00000	50.00000	19454.00	2000.000	51003.00	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	23.32254	-2.09969	.7161320	24.37952	7.930533	1.222879	4.768746
SDEV	.40557	5.83377	.6526952	.23653	2.187568	3.715600	1.040798
%RSD	1.738949	277.8402	91.14175	.9702198	27.58412	303.8402	21.82539
#1	22.87729	-.721601	1.066703	24.60503	7.470601	4.449232	4.745705
#2	23.41948	-8.49911	1.118632	24.13332	6.009500	2.058922	5.820873
#3	23.67086	2.921661	-.036939	24.40022	10.31150	-2.83952	3.739661
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	1.000000	39.00000	5.000000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3032179	32.92245	-4.55330	3.181552	5.557354	10.52395	-3.42619
SDEV	.3860264	6.95008	6.06028	.455881	1.596578	8.47066	1.35137
%RSD	127.3099	21.11044	133.0965	14.32889	28.72911	80.48937	39.44225
#1	.7489208	40.05714	-8.80488	3.706874	5.261269	17.66408	-2.15359
#2	.0856684	32.53719	-7.24103	2.889651	7.281250	12.74319	-3.28046
#3	.0750644	26.17302	2.386017	2.948130	4.129544	1.164583	-4.84451
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-9.56613	1.257584	-4.37051	-5.59386	.2176774	2305.267
SDEV	2.85399	7.415397	.40148	4.96113	.2107365	11.094
%RSD	29.83431	589.6544	9.186221	88.68877	96.81138	.4812351
#1	-9.32534	7.375061	-4.68966	-9.87177	-.023577	2295.267
#2	-12.5329	3.387339	-3.91974	-.155300	.3658218	2317.200
#3	-6.84016	-6.98965	-4.50214	-6.75452	.3107872	2303.333
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 04/06/10 13:45:53
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	183.9756	239530.2	502.3665	452.0967	241550.5	988.3652	472.8227
SDEV	.9500	1106.5	2.0787	1.9215	946.2	2.4784	2.0457
%RSD	.5163935	.4619546	.4137763	.4250134	.3917148	.2507571	.4326552
#1	182.9121	238290.2	500.0797	449.9711	240498.0	986.0138	470.5825
#2	184.7404	239883.7	502.8784	452.6089	241822.8	988.1281	473.2941
#3	184.2744	240416.8	504.1414	453.7103	242330.6	990.9535	474.5915
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	210.0000	248400.0	475.0000	482.0000	234300.0	916.0000	455.0000
RANGE	43.00000	50922.00	400.0000	98.00001	48031.00	187.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	541.0334	495.3183	101861.2	-5.17284	252379.6	489.8261	295.1471
SDEV	2.5800	2.7099	421.5	4.88677	1023.0	1.9955	80.1915
%RSD	.4768573	.5470964	.4138328	94.46977	.4053542	.4073926	27.17000
#1	538.4358	492.3154	101443.5	.1919096	251310.6	487.5908	373.2567
#2	541.0690	497.5816	101853.6	-9.37018	252478.6	490.4592	213.0245
#3	543.5953	496.0579	102286.4	-6.34025	253349.5	491.4282	299.1601
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	506.0000	537.0000	95100.00	.0000000	254100.0	483.0000	.0000000
RANGE	103.0000	110.0000	19495.00	2000.000	52090.00	99.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1049.685	105.4767	483.5158	1012.275	58.46740	40.62848	600.4357
SDEV	5.019	5.5915	1.7783	3.938	.53317	5.96660	1.3949
%RSD	.4781404	5.301202	.3677946	.3890718	.9119120	14.68577	.2323171
#1	1045.296	105.9133	481.4661	1008.227	58.40200	41.77254	599.4387
#2	1048.601	110.8371	484.4323	1012.504	57.96994	34.17268	602.0298
#3	1055.157	99.67960	484.6489	1016.094	59.03025	45.94022	599.8386
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	930.0000	96.00000	481.0000	975.0000	51.00000	51.00000	585.0000
RANGE	190.0000	50.00000	99.99999	199.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	101.3735	80.86871	47.27692	553.7710	623.7325	57.14835	32.37564
SDEV	2.6998	2.10706	.71582	6.5551	2.8555	5.82721	7.15581
%RSD	2.663264	2.605529	1.514097	1.183725	.4578119	10.19663	22.10247
#1	98.66849	82.32416	46.45223	556.5259	620.8624	53.31808	36.00314
#2	101.3838	78.45251	47.73740	558.4991	623.7619	54.27255	24.13253
#3	104.0682	81.82944	47.64111	546.2880	626.5732	63.85442	36.99124
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	97.00000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	982.2798	1046.930	990.1636	981.2012	1057.634	2301.467
SDEV	9.9626	4.591	2.8684	8.2642	4.164	4.438
%RSD	1.014229	.4385575	.2896933	.8422560	.3937237	.1928422
#1	970.9338	1044.707	986.8515	971.7162	1053.715	2299.600
#2	986.3082	1043.872	991.7982	985.0361	1057.181	2306.533
#3	989.5974	1052.209	991.8411	986.8513	1062.006	2298.267
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	205.0000	205.0000	205.0000	205.0000	200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 04/06/10 13:52:54
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	91.25742	48360.07	1014.641	937.7552	47485.48	1022.200	967.5203
SDEV	1.01365	220.71	4.592	6.0049	237.80	6.981	6.7377
%RSD	1.110758	.4563882	.4525911	.6403506	.5007762	.6829551	.6963905
#1	90.13080	48177.42	1011.583	931.1786	47211.16	1015.300	960.9406
#2	92.09556	48297.48	1012.420	939.1407	47612.21	1022.040	967.2145
#3	91.54589	48605.32	1019.922	942.9462	47633.06	1029.260	974.4056
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1027.009	971.8044	25370.15	48988.74	46073.93	948.9516	Q44377.43
SDEV	6.618	2.9234	151.06	107.79	298.97	5.8867	274.44
%RSD	.6444325	.3008255	.5954177	.2200212	.6488846	.6203414	.6184283
#1	1020.299	969.7481	25236.26	48928.57	45790.17	943.2023	Q44091.00
#2	1027.198	975.1510	25340.27	48924.46	46045.52	948.6857	Q44638.06
#3	1033.531	970.5141	25533.91	49113.18	46386.08	954.9668	Q44403.24
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1039.622	1033.699	985.4479	1099.416	1023.508	1000.482	1000.755
SDEV	8.026	12.175	5.9017	7.035	5.433	1.261	5.757
%RSD	.7720189	1.177834	.5988866	.6398971	.5308205	.1260210	.5753083
#1	1033.077	1020.293	979.8646	1092.958	1017.908	999.0869	995.1585
#2	1037.212	1036.733	984.8558	1098.378	1023.858	1000.818	1000.445
#3	1048.577	1044.070	991.6233	1106.913	1028.757	1001.540	1006.661
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1012.452	986.9419	1041.756	925.2795	1038.430	1002.803	999.3176
SDEV	6.788	3.1138	6.616	2.5876	7.442	11.980	5.4530
%RSD	.6704654	.3154986	.6350596	.2796579	.7166860	1.194651	.5456722
#1	1005.042	983.5138	1035.072	922.3511	1031.502	1000.754	998.2494
#2	1018.371	987.7169	1041.895	926.2295	1037.491	991.9803	1005.226
#3	1013.943	989.5950	1048.302	927.2578	1046.298	1015.676	994.4777
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	973.0134	1026.217	1009.383	960.1144	1040.114	2379.089
SDEV	6.2902	3.565	6.733	15.4338	4.578	10.482
%RSD	.6464701	.3473904	.6670749	1.607501	.4401287	.4405935
#1	973.3821	1022.707	1002.177	945.4251	1036.338	2383.066
#2	966.5470	1026.107	1010.457	958.7201	1038.800	2387.000
#3	979.1113	1029.835	1015.514	976.1981	1045.206	2367.200
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 04/06/10 14:00:01
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.63036	115.7345	-.378879	1.043622	4.681199	.2387522	.6520235
SDEV	.77313	14.7225	.143823	.118609	.044118	.1286003	.5212908
%RSD	47.42080	12.72090	37.96001	11.36512	.9424493	53.86351	79.94969
#1	-1.92875	110.8419	-.322048	.9672836	4.670774	.1036680	1.054973
#2	-2.20984	104.0812	-.542434	.9833160	4.643227	.2528881	.0632918
#3	-.752503	132.2804	-.272155	1.180267	4.729596	.3597006	.8378062
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7491365	-.956571	29.05735	3.424900	16.40692	-.068324	-363.587
SDEV	.2076549	.504428	22.68749	6.759084	6.90598	.132567	140.096
%RSD	27.71923	52.73296	78.07834	197.3513	42.09185	194.0261	38.53146
#1	.7422437	-1.28760	18.93007	10.38256	13.95937	-.157229	-219.890
#2	.5450138	-1.20610	13.19729	-3.11635	11.05806	-.131789	-499.779
#3	.9601520	-.376011	55.04468	3.008491	24.20334	.0840446	-371.094
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.017479	6.643474	.9279651	-4.35129	-.236028	Q5.354692	3.284627
SDEV	1.249616	3.605326	.2840240	.14636	.325737	2.205503	.350404
%RSD	122.8149	54.26869	30.60719	3.363587	138.0075	41.18823	10.66801
#1	2.088215	5.065232	1.007915	-4.30020	-.602629	3.310776	3.579998
#2	-.355554	4.096394	.6125348	-4.51635	-.125581	Q7.692343	2.897462
#3	1.319775	Q10.76880	1.163445	-4.23733	.0201249	Q5.060956	3.376420
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6440758	-3.61990	1.447835	5.167031	2.339916	1.327073	7.360563
SDEV	1.769238	3.03456	1.787737	1.226643	1.118738	9.774530	2.271848
%RSD	274.6941	83.83003	123.4766	23.73981	47.81102	736.5481	30.86514
#1	-.107826	-1.39095	-.214639	3.854701	3.437890	-4.28808	7.099547
#2	-.625022	-7.07582	3.338854	6.284711	1.201510	12.61368	5.230496
#3	2.665076	-2.39292	1.219289	5.361681	2.380346	-4.34439	9.751646
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.249669	-1.91929	1.015893	21.49836	1.222537	2470.800
SDEV	3.219101	3.86552	.676894	14.30792	.553926	23.399
%RSD	99.05934	201.4029	66.63045	66.55353	45.30955	.9470286
#1	6.953795	1.204521	1.439144	14.19477	1.077285	2451.267
#2	1.128917	-6.24228	.2352072	12.31622	.7557093	2496.733
#3	1.666294	-.720126	1.373327	37.98408	1.834617	2464.400
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

Daily Instrument Profile

Nebulizer pressure: 30
Peak position: 0.061417
Peak intensity: 1426
Vernier position: 184

Maintenance: NONE

Printed: 3/31/2010 9:52:52 AM

Method(s) (circle one): **ILM04.1** **ILM05.4** **6010B** **200.7** **Other** _____

Operator(s): SGM

Date/Time 03.30.10 20:04 **to** 03.31.10 08:24

↑	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	
1003173	W	Ba, Fe, Cr, Co, Ni, V	COMPLETE
MB8241	S	TAL	COMPLETE
MB8263	S	TAL	COMPLETE

ICP Run Log (P3)

File Name: P30330B

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CAL1	S0 BLANK	CALIB STD	1	03/30/10	20:04:16		
CAL2	S RSTD-1	CALIB STD	1	03/30/10	20:11:17		
CAL4	S RSTD-3	CALIB STD	1	03/30/10	20:18:17		
CAL3	S RSTD-2	CALIB STD	1	03/30/10	20:23:44		
CAL5	S RSTD-4	CALIB STD	1	03/30/10	20:29:12		
ICV1	ICV1	ICV	1	03/30/10	20:36:13		
ICB1	ICB	ICB	1	03/30/10	20:43:14		
CRL1	CRI	CRI	1	03/30/10	20:50:14		
IFA1	ICSA	ICS	1	03/30/10	20:57:14		
IFB1	ICSAB	ICS	1	03/30/10	21:04:15		
CCV1	CCV	CCV	1	03/30/10	21:11:16		
CCB1	CCB	CCB	1	03/30/10	21:18:17		
0032614-BLK1	PBS	PBS	1	03/30/10	21:28:34	MB8241	
0032614-BS1	LCSS	LCS	1	03/30/10	21:35:34	MB8241	
1003179-17	MB8261	SAMPLE	1	03/30/10	21:42:34	MB8241	
0032614-DUP1	MB8261D	SAMPLE	1	03/30/10	21:49:34	MB8241	

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: L. Fonseca Date: 3-31-10

ICP Run Log (P3)

File Name: P30330B

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
0032614-MS1	MB8261S	SAMPLE	1	03/30/10	21:56:34	MB8241	
SRD1	MB8261L	SAMPLE	1	03/30/10	22:03:34	MB8241	
0032614-PS1	MB8261A	SAMPLE	5	03/30/10	22:10:34	MB8241	
1003179-01	MB8241	SAMPLE	1	03/30/10	22:17:35	MB8241	
1003179-02	MB8242	SAMPLE	1	03/30/10	22:24:35	MB8241	
1003179-03	MB8243	SAMPLE	1	03/30/10	22:31:35	MB8241	
CCV2	CCV	CCV	1	03/30/10	22:38:36		
CCB2	CCB	CCB	1	03/30/10	22:45:37		
1003179-04	MB8247	SAMPLE	1	03/30/10	22:52:38	MB8241	
1003179-05	MB8248	SAMPLE	1	03/30/10	22:59:38	MB8241	
1003179-06	MB8249	SAMPLE	1	03/30/10	23:06:38	MB8241	
1003179-07	MB8250	SAMPLE	1	03/30/10	23:13:38	MB8241	
1003179-08	MB8251	SAMPLE	1	03/30/10	23:20:39	MB8241	
1003179-09	MB8252	SAMPLE	1	03/30/10	23:27:39	MB8241	
1003179-10	MB8253	SAMPLE	1	03/30/10	23:34:40	MB8241	
CRL2	CRI	CRI	1	03/30/10	23:41:40		
IFA2	ICSA	ICS	1	03/30/10	23:48:40		
IFB2	ICSAB	ICS	1	03/30/10	23:55:40		
CCV3	CCV	CCV	1	03/31/10	00:02:41		
CCB3	CCB	CCB	1	03/31/10	00:09:43		
1003179-11	MB8254	SAMPLE	1	03/31/10	00:16:43	MB8241	
1003179-12	MB8255	SAMPLE	1	03/31/10	00:23:43	MB8241	
1003179-13	MB8256	SAMPLE	1	03/31/10	00:30:44	MB8241	
1003179-14	MB8258	SAMPLE	1	03/31/10	00:37:44	MB8241	
1003179-15	MB8259	SAMPLE	1	03/31/10	00:44:44	MB8241	
1003179-16	MB8260	SAMPLE	1	03/31/10	00:51:44	MB8241	
1003179-18	MB8261	SAMPLE	1	03/31/10	00:58:44	MB8241	
0032633-BLK1	PBS	PBS	1	03/31/10	01:05:44	MB8263	
0032633-BS1	LCSS	LCS	1	03/31/10	01:12:44	MB8263	
1003190-17	MB8281	SAMPLE	1	03/31/10	01:19:44	MB8263	
CCV4	CCV	CCV	1	03/31/10	01:26:45		
CCB4	CCB	CCB	1	03/31/10	01:33:47		

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: L. Jones Date: 3-31-10

ICP Run Log (P3)

File Name: P30330B

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
0032633-DUP1	MB8281D	SAMPLE	1	03/31/10	01:40:48	MB8263	
0032633-MS1	MB8281S	SAMPLE	1	03/31/10	01:47:48	MB8263	
SRD2	MB8281L	SAMPLE	5	03/31/10	01:54:49	MB8263	
0032633-PS1	MB8281A	SAMPLE	1	03/31/10	02:01:49	MB8263	
1003190-01	MB8263	SAMPLE	1	03/31/10	02:08:50	MB8263	
1003190-02	MB8264	SAMPLE	1	03/31/10	02:15:50	MB8263	
1003190-03	MB8265	SAMPLE	1	03/31/10	02:22:50	MB8263	
CRL3	CRI	CRI	1	03/31/10	02:29:50		
IFA3	ICSA	ICS	1	03/31/10	02:36:50		
IFB3	ICSAB	ICS	1	03/31/10	02:43:50		
CCV5	CCV	CCV	1	03/31/10	02:50:51		
CCB5	CCB	CCB	1	03/31/10	02:57:53		
1003190-04	MB8267	SAMPLE	1	03/31/10	03:04:53	MB8263	
1003190-05	MB8268	SAMPLE	1	03/31/10	03:11:53	MB8263	
1003190-06	MB8269	SAMPLE	1	03/31/10	03:18:53	MB8263	
1003190-07	MB8270	SAMPLE	1	03/31/10	03:25:54	MB8263	
1003190-08	MB8271	SAMPLE	1	03/31/10	03:32:54	MB8263	
1003190-09	MB8272	SAMPLE	1	03/31/10	03:39:54	MB8263	
1003190-10	MB8273	SAMPLE	1	03/31/10	03:46:54	MB8263	
1003190-11	MB8274	SAMPLE	1	03/31/10	03:53:54	MB8263	
1003190-12	MB8276	SAMPLE	1	03/31/10	04:00:55	MB8263	
1003190-13	MB8277	SAMPLE	1	03/31/10	04:07:55	MB8263	
CCV6	CCV1	CCV	1	03/31/10	04:14:56		
CCB6	CCB1	CCB	1	03/31/10	04:21:57		
1003190-14	MB8278	SAMPLE	1	03/31/10	04:28:58	MB8263	
1003190-15	MB8279	SAMPLE	1	03/31/10	04:35:58	MB8263	
1003190-16	MB8280	SAMPLE	1	03/31/10	04:42:59	MB8263	
1003190-18	MB8282	SAMPLE	1	03/31/10	04:49:59	MB8263	
1003190-19	MB8283	SAMPLE	1	03/31/10	04:56:59	MB8263	
0032610-BLK1	PBW	PBW	1	03/31/10	05:04:00	1003173	
0032610-BS1	LCSW	LCS	1	03/31/10	05:11:00	1003173	
CRL4	CRI	CRI	1	03/31/10	05:18:00		

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: L. Jones Date: 3-31-10

ICP Run Log (P3)

File Name: P30330B

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
IFA4	ICSA	ICS	1	03/31/10	05:25:00		
IFB4	ICSAB	ICS	1	03/31/10	05:32:01		
CCV7	CCV1	CCV	1	03/31/10	05:39:02		
CCB7	CCB1	CCB	1	03/31/10	05:46:03		
1003173-01	MW-3	SAMPLE	1	03/31/10	05:53:03	1003173	
0032610-DUP1	MW-3D	SAMPLE	1	03/31/10	06:00:03	1003173	
0032610-MS1	MW-3S	SAMPLE	1	03/31/10	06:07:04	1003173	
SRD3	MW-3L	SAMPLE	5	03/31/10	06:14:04	1003173	
0032610-PS1	MW-3A	SAMPLE	1	03/31/10	06:21:05	1003173	
1003173-02	MW-2	SAMPLE	1	03/31/10	06:28:05	1003173	
1003173-03	MW-8	SAMPLE	1	03/31/10	06:35:05	1003173	
1003173-04	MW-9	SAMPLE	1	03/31/10	06:42:06	1003173	
1003173-05	MW-12	SAMPLE	1	03/31/10	06:49:07	1003173	
1003173-06	MW-17	SAMPLE	1	03/31/10	06:56:07	1003173	
CCV8	CCV1	CCV	1	03/31/10	07:03:08		
CCB8	CCB1	CCB	1	03/31/10	07:10:09		
CRL5	CRI	CRI	1	03/31/10	07:17:09		
IFA5	ICSA	ICS	1	03/31/10	07:24:10		
IFB5	ICSAB	ICS	1	03/31/10	07:31:10		
CCV9	CCV1	CCV	1	03/31/10	07:38:11		
CCB9	CCB1	CCB	1	03/31/10	07:45:12		
0032610-PS1	MW-3A	SAMPLE	1	03/31/10	08:07:25	1003173	
CRL6	CRI	CRI	1	03/31/10	08:14:25		
IFA6	ICSA	ICS	1	03/31/10	08:21:25		
IFB6	ICSAB	ICS	1	03/31/10	08:28:25		
CCVA	CCV	CCV	1	03/31/10	08:35:26		
CCBA	CCB	CCB	1	03/31/10	08:42:28		

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: L. Jones Date: 3-31-10

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2110

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P30331, P30330B

HNO_3 [Baker Instra-analyzed Trace-Metals grade]
HCl [Baker Instra-analyzed Trace-Metals grade]
SM-770-027 multi-element standard mix (RSTD-1)
SM-770-028 part A multi-element standard mix (RSTD-2A)
SM-770-028 part B multi-element standard mix (RSTD-2B)
SM-770-029 part A multi-element standard mix (RSTD-3A)
SM-770-029 part B multi-element standard mix (RSTD-3B)
SM-770-030 multi-element standard mix (RSTD-4)
SPEX-R multi-element standard mix
ICP-AES-CRQL-R multi-element standard mix
ICV1 multi-element standard mix
ICSA multi-element standard mix
ICSB multi-element standard mix
SM-770-031 multi-element standard mix (PDS-R)
ARSENIC (As) 1,000 PPM single-element standard
Internal Mix
SM-770-040 multi-element CCV mix (Soln A)
SM-770-040 multi-element CCV mix (Soln B)
SM-770-042 (LRS 6010B)

Ref #*	Manufacturer	Lot #	Expiration Date
0B02020	JT Baker	H20053	02/13
9L29009	Caledon	71900	12/12
9G08002	High Purity	0916328	06/15/10
9J22002	High Purity	0928011	10/12/2010
9J22001	High Purity	0928012	10/12/2010
9G08004	High Purity	0805135	04/16/10
9G08005	High Purity	0906204	10/16/10
9G08001	High Purity	0916327	06/15/10
0A04007	High Purity	0916301	06/15/10
9I04002	High Purity	0923808	08/28/10
0B04003	EPA	0307	02/04/11
0B04002	EPA	1206	02/04/11
0B04001	EPA	0203	02/04/11
9I22001	High Purity	0926418	09/17/10
9F17001	High Purity	0911221	12/05/10
0B04004	High Purity	0934101	12/10/10
9F09004	High Purity	0912103	05/01/10
9F09004	High Purity	0912104	05/01/10
0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (µg/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
PDS-R multi-element standard mix	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Sb:120
Internal Mix	Li:50,000 Y:250
LRS 6010B multi-element standard mix	Al: 20 Sb:1 As:1 Ba:20 Be:0.5 Bi:2 B:2 Cd:0.5 Ca:500 Cr:1 Co:0.5 Cu:0.5 Fe:10 Pb:0.3 Mg:500 Mn:1 Mo:2 Ni:0.5 K:500 Se:0.5 Ti:0.5 V:2 Zn:2

Entered By: Sherry McDonnell

Reviewed By: L. Forsta

Date: 3-31-10

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log
**High Purity is abbreviated "HP" on reporting forms

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

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Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB- 03.30.10 -SGM	030007	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 03.29.10 - SGM	OC29012	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 03.29.10 - SGM	OC29013	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 03.29.10 - SGM	OC29014	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 03.29.10 SGM	OC29015	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Ti:2,000 Sb:2,000 B:2,000
ICV1- 03.24.10 - SGM	OC24019	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV/CVS1- 03.30.10 -SGM	OC31001	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LRS- 03.25.10 - SGM	OC26006	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Ti:20 Sb:10 B:20

Standard Solutions Prepared By: Sherry G. McDonnell

Entered By: Sherry G. McDonnell

Reviewed By: L. Fonseca

Date: 3-31-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
As- 03.29.10 JCF	OC29010	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 03.30.10 -SGM	OC30003	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 03.30.10 -SGM	OC30004	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Ti:1,000 B:1,000
EPA-CRI- 03.30.10 SGM	OC30005	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Ti:50
P3RINSE- 03.26.10 SGM	OC26018	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 03.27.10 JCF	OC27013	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	NA	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 03.17.10 SGM	OC17014	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- 03.17.10 SGM	OC17006	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	NA	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: SGM / JCF

Entered By: Sherry / RMcD

Reviewed By: L. James

Date: 3-31-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

METHOD: ALT-P3Q1 STANDARD: S0 BLANK
RUN TIME: 03/30/10 20:04:16

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	-.75830	4.9287	.39458	1.1828	.00020	-.01252	-.00009
SDEV	.08907	.0806	.01024	.0448	.00001	.01387	.01262
%RSD	11.746	1.6346	2.5959	3.7845	5.6919	110.80	14690.
#1	-.76996	4.8369	.38343	1.1410	.00019	-.00714	-.01358
#2	-.84096	4.9878	.39674	1.2301	.00021	-.02827	.00188
#3	-.66397	4.9615	.40358	1.1774	.00019	-.00214	.01144

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	.00303	.33832	.01112	.21821	.02638	.00450	-.26902
SDEV	.00455	.03043	.00346	.09593	.01364	.00162	.01698
%RSD	150.05	8.9958	31.075	43.963	51.718	36.069	6.3125
#1	-.00160	.32598	.00838	.13168	.01121	.00319	-.28051
#2	.00319	.31598	.00998	.20159	.03028	.00399	-.27703
#3	.00750	.37298	.01500	.32137	.03764	.00632	-.24951

ELEM	NI2316	TL1908	V_2924	ZN2138	AS1890	22031	22032
AVGE	-.00080	-.00705	-.00813	.00411	.01383	.17437	.05923
SDEV	.00389	.00514	.00264	.00097	.01364	.07982	.04070
%RSD	487.88	72.936	32.462	23.739	98.649	45.779	68.715
#1	-.00266	-.00918	-.00798	.00399	.01077	.23223	.01516
#2	-.00340	-.01078	-.01083	.00319	.02874	.20757	.09540
#3	.00367	-.00118	-.00556	.00513	.00197	.08330	.06712

ELEM	20681	20682	19601	19602	SN1899	BI2230	MO2020
AVGE	.01325	-.00060	-.08598	.07924	-.01430	.11441	.02333
SDEV	.00387	.02196	.02814	.02792	.00731	.04813	.01149
%RSD	29.224	3651.8	32.733	35.231	51.132	42.070	49.254
#1	.00878	-.00918	-.07901	.04788	-.01716	.10015	.03644
#2	.01557	.02435	-.11696	.10139	-.00599	.16806	.01857
#3	.01540	-.01698	-.06198	.08844	-.01974	.07501	.01498

ELEM	TI3349	B_2496
AVGE	.34403	.03849
SDEV	.55969	.01933
%RSD	162.69	50.213
#1	-.00160	.02673
#2	.04391	.02794
#3	.98976	.06080

METHOD: ALT-P3Q1 STANDARD: S RSTD-1
RUN TIME: 03/30/10 20:11:17

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2138
AVGE	23.557	287.66	18.128	168.05	14.304	3.0666	9.7724
SDEV	.036	1.10	.060	.64	.057	.0108	.0350
%RSD	.15299	.38114	.33253	.38162	.39843	.35260	.35815
#1	23.592	288.71	18.181	168.00	14.355	3.0760	9.8060
#2	23.559	287.75	18.141	168.72	14.315	3.0691	9.7749
#3	23.520	286.52	18.062	167.44	14.243	3.0548	9.7362

ELEM	22031	22032	19601	19602
AVGE	77.451	71.562	10.663	18.199
SDEV	.207	.236	.028	.080
%RSD	.26679	.32930	.26072	.44221
#1	77.670	71.822	10.658	18.292
#2	77.424	71.503	10.638	18.148
#3	77.260	71.362	10.693	18.158

METHOD: ALT-P3Q1 STANDARD: S RSTD-3
RUN TIME: 03/30/10 20:18:17

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	938.19	.26508	471.95	136.22	21.014
SDEV	8.56	.00200	3.54	1.27	.179
%RSD	.91276	.75362	.75050	.93229	.85376
#1	932.26	.26392	469.67	135.49	20.853
#2	948.01	.26739	476.03	137.68	21.207
#3	934.31	.26394	470.15	135.48	20.982

METHOD: ALT-P3Q1 STANDARD: S RSTD-2
RUN TIME: 03/30/10 20:23:44

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	227.28	928.59	48.689	33.703	27.434	9.1596	42.560
SDEV	2.37	7.51	.432	.367	.242	.0878	.420
%RSD	1.0440	.80867	.88680	1.0876	.88052	.95841	.98729
#1	225.20	921.59	48.290	33.413	27.214	9.0810	42.201
#2	226.77	927.66	48.630	33.580	27.397	9.1434	42.457
#3	229.86	936.52	49.148	34.115	27.692	9.2543	43.022

ELEM	MO2020
AVGE	41.006
SDEV	.527
%RSD	1.2859
#1	40.506
#2	40.955
#3	41.557

METHOD: ALT-P3Q1 STANDARD: S RSTD-4
RUN TIME: 03/30/10 20:29:12

ELEM	20681	20682	SN1899	BI2230	TI3349	B_2496
AVGE	4.9707	22.200	6.1210	61.426	130.95	65.585
SDEV	.0169	.040	.0150	.095	.37	.108
%RSD	.33992	.18024	.24565	.15464	.28089	.16392
#1	4.9890	22.231	6.1217	61.534	131.28	65.544
#2	4.9557	22.155	6.1056	61.352	130.55	65.504
#3	4.9675	22.215	6.1357	61.394	131.01	65.707

ANALYSIS REPORT QC STANDARD 03/30/10 08:43:10 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 03/30/10 20:36:13
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	527.1188	2528.073	512.4885	500.0769	10579.87	518.8271	516.5486
SDEV	1.9781	40.505	6.6027	6.0680	136.37	5.4360	5.5552
%RSD	.3752666	1.602210	1.288351	1.213405	1.288977	1.047745	1.075448
#1	528.2996	2502.076	508.9735	496.7387	10479.91	515.8100	513.7874
#2	524.8351	2507.401	508.3870	496.4109	10524.48	515.5688	512.9149
#3	528.2217	2574.744	520.1051	507.0810	10735.23	525.1025	522.9434
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	519.0137	524.2231	5215.348	9924.698	6086.301	503.1872	10257.86
SDEV	5.6691	1.8776	55.365	111.910	71.468	5.7384	114.87
%RSD	1.092279	.3581709	1.061581	1.127590	1.174249	1.140410	1.119801
#1	515.1737	525.5299	5175.831	9863.364	6040.370	500.2700	10271.50
#2	516.3426	522.0715	5191.585	9856.864	6049.890	499.4936	10136.79
#3	525.5250	525.0681	5278.627	10053.87	6168.642	509.7982	10365.30
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	523.3163	1077.787	515.8401	1023.792	1041.499	1046.662	1042.953
SDEV	6.1794	9.276	5.9804	13.521	11.821	11.866	13.906
%RSD	1.180808	.8606382	1.159344	1.320659	1.134982	1.133725	1.333370
#1	519.2026	1077.109	512.7021	1016.094	1032.244	1039.040	1036.817
#2	520.3241	1068.868	512.0820	1015.879	1037.439	1040.612	1033.170
#3	530.4222	1087.383	522.7364	1039.404	1054.815	1060.334	1058.872
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1034.441	1034.887	1044.795	1045.197	1041.827	1050.120	1044.930
SDEV	11.974	11.108	12.728	13.037	14.981	8.273	13.673
%RSD	1.157528	1.073393	1.218216	1.247366	1.437953	.7878025	1.308462
#1	1026.685	1030.258	1033.229	1034.756	1037.840	1044.281	1036.418
#2	1028.407	1026.841	1042.724	1041.024	1029.243	1046.491	1037.671
#3	1048.232	1047.561	1058.431	1059.809	1058.398	1059.587	1060.701
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	999.0000						
RANGE	10.40000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1132.147	1106.961	1087.078	1118.380	1108.267	2517.511
SDEV	6.298	14.585	15.867	15.104	13.551	31.690
%RSD	.5562902	1.317569	1.459590	1.350542	1.222716	1.258799
#1	1132.612	1097.223	1077.492	1106.466	1099.667	2541.000
#2	1125.630	1099.930	1078.349	1113.306	1101.248	2530.066
#3	1138.200	1123.730	1105.393	1135.368	1123.888	2481.467
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	1100.000	1100.000	1100.000	
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 03/30/10 20:43:14
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5487049	-25.1477	-.391256	-.305336	-44.5316	-.088062	-.150573
SDEV	.7532139	3.4778	.103979	.087029	40.3617	.386418	.187742
%RSD	137.2712	13.82930	26.57570	28.50281	90.63600	438.8030	124.6847
#1	-.153138	-27.7367	-.474752	-.316392	2.074030	.1216241	.0140824
#2	1.344479	-21.1947	-.274789	-.213307	-67.8140	.1481859	-.110781
#3	.4547735	-26.5116	-.424228	-.386309	-67.8549	-.533996	-.355021
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.257632	.3219996	-2.18643	2.125911	2.651723	-.204268	95.40202
SDEV	.574071	.3112691	9.67815	6.602117	3.902953	.089853	107.0033
%RSD	222.8261	96.66753	442.6464	310.5548	147.1856	43.98751	112.1604
#1	-.857825	-.027777	-12.4447	1.174372	-.099388	-.302918	194.2473
#2	.2861513	.5685166	6.782284	9.152167	7.118650	-.127110	110.1815
#3	-.201221	.4252594	-.896861	-3.94881	.9359059	-.182777	-18.2227
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.080138	-3.04316	.1303174	.1278829	-1.89145	-.375311	1.180130
SDEV	.732983	1.38895	.2445999	.0565789	1.34403	2.060741	.670578
%RSD	914.6566	45.64152	187.6955	44.24270	71.05800	549.0751	56.82235
#1	-.893936	-1.56732	.1363760	.1837277	-1.44727	1.713186	1.751370
#2	.1253582	-3.23742	.3718317	.1293235	-.825738	-.431994	1.347211
#3	.5281651	-4.32476	-.117255	.0705975	Q-3.40135	-2.40713	.4418092
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.514413	-.984373	-2.34951	-.424954	1.976667	9.705549	-5.41299
SDEV	.656347	1.732555	2.86577	2.398879	.468043	3.490785	3.18369
%RSD	127.5914	176.0059	121.9728	564.5032	23.67837	35.96690	58.81573
#1	-.131524	-1.13526	-1.60838	.7507432	2.246190	12.39061	-3.62226
#2	-1.27228	-2.63655	.0728878	1.159275	1.436219	5.759479	-3.52791
#3	-.139432	.8186921	-5.51305	-3.18488	2.247593	10.96656	-9.08879
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	5.266839	-3.48372	1.812187	-2.36862	.8979752	2528.689
SDEV	.583540	1.65991	.469539	5.54693	.2982332	27.231
%RSD	11.07952	47.64760	25.91008	234.1837	33.21174	1.076878
#1	5.825018	-2.95674	2.306374	-5.95382	.7289140	2559.333
#2	5.314623	-5.34315	1.371959	4.020516	1.242326	2519.467
#3	4.660876	-2.15128	1.758227	-5.17256	.7226852	2507.267
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/30/10 20:50:14
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.76968	-41.5330	-.483315	4.545782	-19.4426	4.825567	50.65763
SDEV	.19386	6.7171	.093571	.097119	40.8982	.240637	.50626
%RSD	1.800094	16.17300	19.36023	2.136456	210.3530	4.986703	.9993819
#1	10.55171	-48.7786	-.591330	4.443523	-66.6675	4.558777	50.62972
#2	10.92283	-40.3074	-.427058	4.557044	4.037388	4.891704	50.16591
#3	10.83450	-35.5131	-.431557	4.636779	4.302233	5.026219	51.17728
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.822496	26.50093	-11.2347	-1.62936	-11.5892	14.54750	27.37616
SDEV	.196062	.21193	3.3001	10.20291	4.7488	.05370	221.4061
%RSD	1.996055	.7997196	29.37418	626.1904	40.97651	.3691233	808.7553
#1	9.620548	26.54449	-14.7968	-10.8448	-16.5361	14.60584	-216.607
#2	9.834850	26.68770	-10.6261	-3.37828	-11.1645	14.50014	83.22401
#3	10.01209	26.27060	-8.28132	9.334959	-7.06693	14.53652	215.5111
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.01562	24.26854	50.43856	54.72776	7.900186	38.07151	62.81895
SDEV	.42140	5.75690	.55407	.23314	.586062	3.45919	1.80908
%RSD	1.053087	23.72163	1.098505	.4260007	7.418335	9.086023	2.879827
#1	39.53197	21.34913	49.96189	54.99082	7.231689	36.62434	62.66880
#2	40.21122	30.90026	50.30732	54.54670	8.325557	35.57094	61.08963
#3	40.30368	20.55625	51.04646	54.64575	8.143311	42.01927	64.69843
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.18716	8.800127	7.444881	59.13943	64.65115	45.68862	34.26387
SDEV	1.10663	.497301	.954192	1.92982	1.79743	2.13501	6.18295
%RSD	10.86300	5.651067	12.81675	3.263174	2.780201	4.672968	18.04509
#1	8.932776	8.987854	6.348902	59.55088	64.22061	45.62400	32.12644
#2	11.02536	9.176240	7.894863	57.03707	63.10808	47.85521	29.43323
#3	10.60333	8.236288	8.090877	60.83036	66.62475	43.58664	41.23194
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	57.61547	48.78649	51.14360	48.50204	51.46702	2525.155
SDEV	5.75370	3.52595	.62228	7.25114	.47342	6.768
%RSD	9.986381	7.227304	1.216737	14.95017	.9198424	.2680201
#1	51.40007	45.05208	51.08142	40.47618	51.98551	2520.200
#2	62.75581	49.24907	51.79463	54.58093	51.05779	2532.867
#3	58.69053	52.05832	50.55473	50.44899	51.35776	2522.400
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/30/10 20:57:14
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3723400	261165.9	2.554114	.5550626	262812.8	-1.39448	4.943782
SDEV	.3076303	1094.8	.079765	.0378438	1899.9	.05893	.443026
%RSD	82.62080	.4191800	3.122982	6.817925	.7228948	4.226217	8.961283
#1	.1369917	262418.6	2.645553	.5469564	264991.0	-1.37073	5.455342
#2	.2595911	260686.9	2.517962	.5963026	261498.3	-1.46158	4.686695
#3	.7204372	260392.4	2.498827	.5219287	261948.8	-1.35112	4.689308
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.45663	24.60005	103280.1	4.151688	269720.8	18.51606	967.4142
SDEV	.19456	.58546	436.8	1.808682	1265.2	.10441	98.9587
%RSD	.4099747	2.379925	.4229557	43.56497	.4690761	.5638889	10.22920
#1	47.23205	25.00155	103775.2	3.622693	271168.8	18.63643	1005.003
#2	47.57411	23.92827	103115.9	2.666485	269164.7	18.46186	855.1685
#3	47.56373	24.87032	102949.1	6.165886	268828.9	18.44990	1042.071
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.89698	3.639542	.7673683	29.44728	8.935852	-1.66951	1.316334
SDEV	.30416	1.639996	.1367413	.33274	.981858	3.39685	2.458757
%RSD	1.328380	45.06049	17.81951	1.129936	10.98785	203.4639	186.7883
#1	22.88455	5.266930	.9171342	29.80769	9.397793	-.561620	-1.36381
#2	22.59923	1.987223	.6491748	29.15179	7.808219	1.035075	3.467651
#3	23.20716	3.664474	.7357960	29.38236	9.601545	-5.48198	1.845156
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4507726	5.566340	10.61201	-1.20852	2.571845	14.89751	-9.94562
SDEV	1.547555	1.397907	1.53267	1.05036	3.168309	6.94734	1.63317
%RSD	343.3117	25.11358	14.44276	86.91266	123.1921	46.63426	16.42097
#1	-.331475	7.121536	10.52790	-2.39920	-.851936	17.47361	-9.57077
#2	-.549503	5.163132	9.123135	-.413289	5.400193	20.18884	-8.53247
#3	2.233296	4.414352	12.18501	-.813067	3.167276	7.030069	-11.7336
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.2042821	-1.85074	-4.33537	-3.79617	-4.00974	2423.133
SDEV	5.642637	1.15688	.53457	3.56261	.22843	12.718
%RSD	2762.178	62.50923	12.33051	93.84754	5.696922	.5248773
#1	3.853216	-3.10408	-3.89332	-3.68398	-4.22493	2409.533
#2	3.054567	-1.62433	-4.92950	-7.41354	-3.77004	2425.133
#3	-6.29494	-.823795	-4.18328	-.290974	-4.03425	2434.733
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	100.0000	100.0000	100.0000	100.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/30/10 21:04:15
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	206.3038	246096.7	499.5033	478.2375	246795.8	969.2203	489.4487
SDEV	.1588	1926.9	4.1560	1.6258	601.9	3.1639	1.6390
%RSD	.0769650	.7829861	.8320247	.3399524	.2439003	.3264418	.3348579
#1	206.4801	243900.2	494.7844	476.7995	246391.9	966.0556	487.6977
#2	206.2594	246887.3	501.1064	477.9115	246507.7	969.2220	489.7023
#3	206.1720	247502.5	502.6189	480.0016	247487.6	972.3835	490.9461
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	535.7806	531.3546	96716.42	-2.74327	252997.8	504.0757	865.9550
SDEV	2.2017	3.4720	472.71	2.95524	1317.8	1.7709	136.3796
%RSD	.4109244	.6534284	.4887600	107.7269	.5208778	.3513165	15.74905
#1	534.5022	527.4664	96212.97	-6.05890	251658.8	502.4515	720.8444
#2	534.5167	534.1451	96785.50	-.386588	253041.2	503.8119	885.5328
#3	538.3228	532.4522	97150.79	-1.78433	254293.4	505.9637	991.4877
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1015.201	109.4435	494.3379	1022.787	59.45050	46.84674	615.0313
SDEV	4.242	1.5395	2.2868	5.345	1.53851	4.48123	1.9781
%RSD	.4178532	1.406632	.4626001	.5225654	2.587887	9.565733	.3216243
#1	1010.622	107.6722	491.7715	1017.346	60.60368	50.87759	615.6461
#2	1015.984	110.4584	495.0829	1022.986	57.70359	Q42.02140	616.6290
#3	1018.997	110.1999	496.1592	1028.030	60.04424	47.64124	612.8188
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	100.0221	48.63330	64.84473	620.7627	612.1649	66.60759	36.97612
SDEV	.8757	5.57713	2.59521	7.9993	6.5154	7.00913	6.64565
%RSD	.8754912	11.46772	4.002187	1.288632	1.064321	10.52302	17.97282
#1	100.9254	54.95683	63.41661	612.9948	616.9647	73.25024	39.70303
#2	99.17692	46.52704	63.27723	620.3182	614.7822	67.29054	29.40077
#3	99.96409	44.41603	67.84033	628.9750	604.7479	59.28198	41.82456
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1007.780	1029.547	978.9996	1028.990	1017.924	2425.311
SDEV	8.750	10.848	7.4338	3.446	7.865	7.008
%RSD	.8682426	1.053623	.7593214	.3349175	.7726353	.2889431
#1	1001.155	1017.306	970.4930	1031.530	1008.894	2427.267
#2	1004.486	1033.368	982.2585	1025.067	1021.599	2431.133
#3	1017.699	1037.967	984.2474	1030.373	1023.278	2417.533
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	200.0000	200.0000	200.0000	200.0000	200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/30/10 21:11:16
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	104.0433	50759.49	1000.072	997.0594	50671.51	1000.481	1002.875
SDEV	1.1128	1109.72	20.983	24.6717	1362.02	24.185	24.542
%RSD	1.069550	2.186227	2.098139	2.474442	2.687948	2.417374	2.447171
#1	104.0477	49893.24	983.4218	982.4081	49997.67	984.8834	987.3350
#2	105.1539	52010.35	1023.640	1025.544	52239.11	1028.342	1031.168
#3	102.9283	50374.89	993.1530	983.2262	49777.75	988.2190	990.1216
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1015.103	1034.521	25046.30	50435.78	47652.79	977.7752	51214.81
SDEV	24.611	2.963	601.69	930.03	1162.53	22.9627	928.61
%RSD	2.424456	.2864098	2.402328	1.843994	2.439578	2.348465	1.813172
#1	998.5060	1031.137	24618.05	49643.92	46837.69	962.6320	50663.99
#2	1043.379	1036.649	25734.23	51459.94	48984.01	1004.196	52286.94
#3	1003.424	1035.777	24786.63	50203.47	47136.64	966.4975	50693.49
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1003.037	1017.715	1003.610	1101.944	1000.603	1023.682	991.4663
SDEV	23.178	25.587	24.037	26.190	19.137	14.627	26.2977
%RSD	2.310770	2.514123	2.395024	2.376755	1.912530	1.428857	2.652408
#1	987.6028	994.7703	987.1153	1084.500	985.2747	1011.024	961.5391
#2	1029.690	1045.306	1031.189	1132.060	1022.051	1039.695	1010.884
#3	991.8188	1013.067	992.5264	1089.271	994.4822	1020.327	1001.976
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1008.204	996.9458	1002.422	993.2662	990.5629	1022.648	1024.194
SDEV	30.172	16.5708	20.682	42.2987	18.9457	8.176	17.855
%RSD	2.992650	1.662152	2.063186	4.258543	1.912622	.7994781	1.743286
#1	984.2610	986.9066	984.4540	947.2064	968.6900	1015.253	1008.908
#2	1042.093	1016.072	1025.030	1030.369	1001.151	1031.428	1043.818
#3	998.2573	987.8586	997.7830	1002.223	1001.847	1021.263	1019.855
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1022.596	1023.914	1009.066	1037.417	1020.706	2500.111
SDEV	25.471	23.728	22.668	35.151	21.641	46.552
%RSD	2.490840	2.317341	2.246408	3.388322	2.120230	1.862010
#1	1004.939	1006.361	991.6570	1019.307	1003.317	2530.666
#2	1051.795	1050.909	1034.698	1077.930	1044.943	2446.533
#3	1011.053	1014.472	1000.844	1015.014	1013.859	2523.133
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/30/10 21:18:17
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0304671	-5.91435	-.368253	-.089819	80.91890	.1576824	.0419599
SDEV	.0189938	22.62789	.077932	.131686	128.8842	.1262508	.0164782
%RSD	62.34186	382.5928	21.16264	146.6124	159.2757	80.06654	39.27142
#1	.0523969	-14.3317	-.405142	-.147631	-67.8435	.0610276	.0263897
#2	.0192222	19.71587	-.278726	.0608839	158.9664	.3005225	.0402735
#3	.0197823	-23.1272	-.420892	-.182709	151.6338	.1114970	.0592165
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.218096	.1630010	6.161542	4.665810	13.64444	-.122184	-.618877
SDEV	.065401	.1719512	7.291441	5.250401	14.74834	.102034	67.45694
%RSD	29.98709	105.4909	118.3379	112.5293	108.0905	83.50803	10899.90
#1	-.290245	.3060924	1.930292	9.814805	5.589501	-.214283	65.96548
#2	-.201340	.2106644	14.58094	4.863063	30.66621	-.012502	-68.9158
#3	-.162704	-.027754	1.973397	-.680438	4.677602	-.139768	1.093680
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.012174	.5008670	.1069359	.2456075	-1.47192	3.415146	5.908907
SDEV	.393849	4.703658	.0968804	.0649941	.29552	1.438157	4.048791
%RSD	3235.183	939.1031	90.59673	26.46260	20.07700	42.11113	68.52013
#1	-.402860	.1781119	.1058188	.1913766	-1.54428	4.413126	Q10.15458
#2	.3847642	-4.03310	.0106189	.3176506	-1.14694	1.766668	5.481189
#3	-.018426	5.357590	.2043700	.2277954	-1.72453	4.065642	2.090955
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.673097	-2.48084	-.972976	3.938362	6.887938	9.610662	.3172676
SDEV	2.318333	2.84524	1.454654	2.782364	4.811110	3.568999	2.963043
%RSD	344.4277	114.6886	149.5057	70.64774	69.84834	37.13583	933.9255
#1	-2.94487	.6657158	-2.65243	6.137064	12.15552	12.57113	.3354330
#2	-.763561	-3.23571	-.108940	4.867763	5.782620	10.61326	-2.65482
#3	1.689143	-4.87251	-.157557	.8102601	2.725676	5.647594	3.271186
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	5.901421	-3.00078	1.243128	-1.73771	1.048508	2548.733
SDEV	2.307946	1.85042	.599751	3.28672	.033800	45.565
%RSD	39.10831	61.66483	48.24534	189.1410	3.223628	1.787750
#1	7.271418	-3.41745	1.932827	-4.60218	1.013956	2527.267
#2	3.236790	-.977540	.8440801	-2.46153	1.050067	2517.867
#3	7.196056	-4.60733	.9524760	1.850590	1.081502	2601.066
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032614-BLK1 OPERATOR:
RUN TIME: 03/30/10 21:28:34
COMMENT: SDG:MB8241 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.008997	-23.3596	.3023504	-.322244	61.68894	-.724525	-.601590
SDEV	.318288	8.1636	.0186232	.068389	85.28690	.027208	.125542
%RSD	3537.589	34.94748	6.159464	21.22267	138.2531	3.755351	20.86837
#1	-.375371	-18.2574	.3186943	-.243309	160.1530	-.750396	-.696097
#2	.1993804	-32.7751	.2820756	-.359728	10.88293	-.727027	-.459141
#3	.1489991	-19.0463	.3062813	-.363696	14.03089	-.696152	-.649531
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	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7528545	.2423697	18.40151	11.08427	7.979699	.0449652	719.6855
SDEV	.4345287	.3111335	8.14305	4.80981	1.265810	.0269096	39.9909
%RSD	57.71749	128.3714	44.25207	43.39313	15.86288	59.84527	5.556715
#1	.4463819	-.051645	12.04269	16.63688	8.439301	.0367427	760.9344
#2	.5620397	.2105733	15.58230	8.204426	6.548295	.0231262	717.0378
#3	1.250142	.5681804	27.57952	8.411515	8.951500	.0750267	681.0843
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.08792	-2.89197	-.267161	1.118243	2.084903	1.489324	.8214375
SDEV	.15742	3.14796	.350171	.192168	1.183387	5.357926	.8048973
%RSD	14.46985	108.8517	131.0713	17.18483	56.75982	359.7556	97.98644
#1	-1.22589	-1.60229	.0807267	.9639474	.7191475	-1.92123	.2683208
#2	-1.12144	-6.47997	-.262638	1.057285	2.729843	-1.27568	.4511527
#3	-.916443	-.593651	-.619572	1.333497	2.805718	7.664888	1.744839
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.99131	10.04898	-1.89614	.5302585	.9618272	-7.66659	6.055504
SDEV	.88162	4.16362	3.82738	1.231219	.6673788	5.05419	8.071620
%RSD	44.27322	41.43329	201.8509	232.1922	69.38656	65.92491	133.2939
#1	-2.52686	14.69132	-6.26146	.1404317	.3271726	-3.30215	-1.23681
#2	-.973777	8.810503	-.310789	-.458858	.9005985	-13.2042	4.674961
#3	-2.47330	6.645106	.8838317	1.909201	1.657711	-6.49342	14.72836
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	23.80868	-3.56617	1.832393	.2765154	-.322069	2438.244
SDEV	2.39254	2.45447	.471563	3.335170	.886582	47.299
%RSD	10.04904	68.82651	25.73482	1206.142	275.2775	1.939869
#1	22.04345	-1.42374	2.310364	-3.52521	-.497140	2430.333
#2	26.53174	-3.03056	1.367511	1.644899	-1.10806	2489.000
#3	22.85086	-6.24422	1.819302	2.709855	.6389892	2395.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032614-BS1 OPERATOR:
RUN TIME: 03/30/10 21:35:34
COMMENT: SDG:MB8241 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	54.69736	841.5620	13.73261	44.02391	439517.4	99.58581	341.9709
SDEV	.34680	10.5372	.06677	.19786	1662.6	.42294	1.2579
%RSD	.6340295	1.252103	.4862493	.4494290	.3782844	.4246949	.3678383
#1	54.30167	852.9791	13.80386	44.25160	441246.6	99.58646	343.2144
#2	54.84192	839.4962	13.72252	43.89369	437930.5	99.16254	340.6990
#3	54.94850	832.2106	13.67146	43.92646	439375.0	100.0084	341.9992
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	91.00000	1750.000	22.00000	68.00000	582000.0	140.0000	506.0000
LOW	27.00000	547.0000	10.00000	30.00000	303000.0	77.00000	242.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	259.2094	16078.01	59474.54	130.8060	270059.2	543.9695	948.8820
SDEV	1.0922	43.16	215.66	5.5442	996.4	1.7809	87.8528
%RSD	.4213600	.2684180	.3626130	4.238485	.3689423	.3273808	9.258561
#1	260.4616	16042.69	59723.39	136.0630	271203.0	545.9681	950.5729
#2	258.4537	16065.22	59342.23	125.0135	269379.9	542.5511	860.1959
#3	258.7128	16126.11	59357.98	131.3416	269594.6	543.3893	1035.877
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	357.0000	22300.00	86600.00	853.0000	379000.0	805.0000	2160.000
LOW	185.0000	13200.00	42800.00	.0000000	205000.0	416.0000	.0000000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	147.1935	95.84136	160.7929	410.8955	520.8135	86.18610	571.5339
SDEV	.5250	6.09935	.5565	1.3993	1.3769	2.91416	1.5720
%RSD	.3566489	6.364011	.3461231	.3405542	.2643708	3.381236	.2750565
#1	147.5855	102.3774	161.4319	412.3743	520.3143	83.04889	572.5103
#2	146.5971	94.84530	160.5330	409.5922	519.7558	86.70081	569.7205
#3	147.3979	90.30135	160.4139	410.7199	522.3703	88.80862	572.3710
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	237.0000	161.0000	237.0000	744.0000	724.0000	159.0000	1040.000
LOW	18.60000	29.00000	116.0000	205.0000	414.0000	41.00000	276.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2265.389	529.3400	516.5485	572.7841	570.9047	90.18129	84.18639
SDEV	8.656	2.0959	2.9798	.3568	2.4388	6.06125	2.43019
%RSD	.3820766	.3959366	.5768707	.0622910	.4271892	6.721186	2.886673
#1	2275.161	531.2895	514.8267	573.0023	572.2595	83.31426	82.91125
#2	2258.686	529.6072	514.8294	572.9776	568.0892	94.78599	82.65918
#3	2262.320	527.1234	519.9893	572.3723	572.3653	92.44362	86.98875
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	3520.000						
LOW	1540.000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	31.30582	186.5299	117.3887	48.54742	10.84605	2380.022
SDEV	4.42345	.7034	.1146	2.46251	.36521	15.195
%RSD	14.12981	.3770820	.0976228	5.072376	3.367208	.6384544
#1	35.99829	186.8380	117.5196	46.26963	11.24528	2362.666
#2	30.70674	185.7251	117.3063	48.21231	10.76406	2386.467
#3	27.21244	187.0266	117.3403	51.16033	10.52880	2390.933
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH						
LOW						

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-17 OPERATOR:
RUN TIME: 03/30/10 21:42:34
COMMENT: SDG:MB8241 CLIENTID:MB8261 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.190488	26151.00	55.07518	1.658661	1031.205	-1.24093	32.05801
SDEV	.288602	268.62	.51843	.025556	89.989	.06049	.33913
%RSD	151.5066	1.027179	.9413106	1.540734	8.726574	4.874448	1.057875
#1	.0563851	25841.71	54.47668	1.674722	975.4081	-1.27649	31.85908
#2	-.507784	26285.39	55.38505	1.629191	983.1895	-1.27522	31.86535
#3	-.120066	26325.90	55.36383	1.672068	1135.018	-1.17109	32.44959
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	95.13314	43.48267	61879.34	5689.460	9228.064	422.1685	3689.883
SDEV	.60893	.15589	583.13	50.196	88.870	3.9388	82.778
%RSD	.6400806	.3585008	.9423606	.8822684	.9630366	.9329909	2.243372
#1	94.97321	43.55391	61211.14	5634.861	9126.416	417.6309	3655.877
#2	94.62014	43.30389	62141.56	5699.914	9266.697	424.1689	3629.524
#3	95.80608	43.59021	62285.32	5733.607	9291.078	424.7056	3784.248
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	60.50202	.6476571	101.9656	145.5541	32.19633	-2.34388	2.829640
SDEV	.25173	6.964002	.8084	1.2236	.69851	4.79032	1.250383
%RSD	.4160679	1075.261	.7927988	.8406267	2.169531	204.3756	44.18876
#1	60.26992	8.571000	101.0607	144.1786	31.42267	.3477424	2.137265
#2	60.46653	-4.50263	102.2198	145.9623	32.78064	.4952271	4.273060
#3	60.76962	-2.12540	102.6164	146.5213	32.38570	L-7.87462	2.078595
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	41.12414	39.53191	28.52724	3.601146	2.439628	6.400423	-6.71432
SDEV	2.81079	1.86062	1.20900	2.992147	1.567605	6.820865	3.78057
%RSD	6.834879	4.706623	4.238054	83.08874	64.25592	106.5690	56.30613
#1	37.90529	39.59176	27.33748	.1741073	3.112561	10.47197	-4.71159
#2	42.37330	41.36188	28.48963	5.694793	3.558413	10.20340	-4.35643
#3	43.09382	37.64209	29.75460	4.934537	.6479095	-1.47411	-11.0749
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	16.66624	-1.62510	2.367163	872.6455	24.97441	2509.955
SDEV	4.60879	.73193	1.598458	7.1490	.68478	12.121
%RSD	27.65347	45.03888	67.52635	.8192278	2.741916	.4829213
#1	19.51079	-.781710	4.091288	866.0149	24.19240	2523.733
#2	11.34879	-2.09407	.9344741	871.7024	25.26406	2505.200
#3	19.13913	-1.99953	2.075726	880.2192	25.46676	2500.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032614-DUP1 OPERATOR:
RUN TIME: 03/30/10 21:49:34
COMMENT: SDG:MB8241 CLIENTID:MB8261D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1042555	27052.50	55.35778	1.460984	1135.466	-1.31442	29.88585
SDEV	.4222230	259.00	.57211	.088360	8.093	.10078	.51690
%RSD	404.9888	.9573890	1.033483	6.047970	.7127677	7.666979	1.729584
#1	.0085148	26834.77	54.92038	1.537735	1137.857	-1.20569	29.43377
#2	.5661277	27338.92	56.00523	1.480827	1142.094	-1.40469	30.44939
#3	-.261876	26983.83	55.14772	1.364390	1126.447	-1.33288	29.77439
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	93.35057	43.12908	63217.65	5856.158	9593.488	420.2580	3700.275
SDEV	.95657	.64169	585.37	46.406	91.726	4.4587	53.099
%RSD	1.024711	1.487840	.9259645	.7924368	.9561327	1.060945	1.435013
#1	93.16490	42.52860	62781.71	5823.444	9518.274	416.2154	3645.283
#2	94.38637	43.80526	63882.98	5909.270	9695.678	425.0403	3751.254
#3	92.50044	43.05338	62988.26	5835.761	9566.513	419.5183	3704.288
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	58.98652	-2.58658	102.4457	149.1069	32.57245	-2.38893	3.744224
SDEV	.81629	2.38959	1.2168	1.6231	.14452	1.44374	1.301987
%RSD	1.383864	92.38387	1.187751	1.088551	.4436731	60.43449	34.77322
#1	58.61110	-.766671	101.5723	147.7096	32.48837	-4.01954	2.752451
#2	59.92298	-1.70042	103.8355	150.8873	32.73932	-1.87400	5.218609
#3	58.42548	-5.29266	101.9293	148.7237	32.48966	-1.27326	3.261611
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	39.07789	40.22297	28.74607	3.747578	3.737692	6.063007	-6.61342
SDEV	4.45633	1.97037	1.16275	4.413706	.871055	9.884504	3.95025
%RSD	11.40372	4.898620	4.044913	117.7749	23.30461	163.0297	59.73076
#1	43.94012	42.33138	27.56738	2.165920	3.040410	.8896046	-6.47530
#2	38.10551	38.42829	29.89220	8.734187	3.458572	-.161100	-2.73405
#3	35.18803	39.90922	28.77864	.3426269	4.714095	17.46052	-10.6309
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	13.33056	-7.25923	2.526986	913.5254	26.30537	2500.222
SDEV	1.69743	.89267	.862081	14.5017	.68903	16.740
%RSD	12.73337	12.29710	34.11498	1.587445	2.619362	.6695297
#1	12.31663	-7.53290	1.758757	904.9096	26.25883	2495.066
#2	12.38486	-7.98303	3.459325	930.2681	27.01649	2486.666
#3	15.29018	-6.26176	2.362875	905.3984	25.64079	2518.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032614-MS1 OPERATOR:
RUN TIME: 03/30/10 21:56:34
COMMENT: SDG:MB8241 CLIENTID:MB8261S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	95.41683	33344.54	3929.046	96.71860	1137.924	95.70292	998.6573
SDEV	.80671	240.33	26.325	.75134	6.553	.76256	7.2171
%RSD	.8454596	.7207487	.6700186	.7768295	.5758755	.7967950	.7226777
#1	96.34384	33622.02	3959.407	97.57166	1145.323	96.34215	1006.923
#2	95.03252	33202.64	3912.573	96.42899	1132.854	95.90775	995.4467
#3	94.87413	33208.94	3915.158	96.15518	1135.594	94.85887	993.6027
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	489.3284	552.4033	66087.73	6011.053	9706.694	1399.728	3669.045
SDEV	3.2735	3.0028	282.08	30.175	55.985	10.875	111.785
%RSD	.6689816	.5435960	.4268221	.5019925	.5767672	.7769605	3.046707
#1	493.0903	555.3475	66413.33	6045.611	9771.203	1412.099	3684.794
#2	487.7667	552.5172	65917.34	5997.624	9678.080	1395.414	3772.120
#3	487.1282	549.3451	65932.53	5989.923	9670.799	1391.672	3550.220
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1034.176	99.37299	1087.562	1109.566	73.88570	84.49693	105.9361
SDEV	5.290	8.62026	7.501	8.167	.60979	5.44122	2.0218
%RSD	.5115398	8.674645	.6896871	.7360349	.8253160	6.439545	1.908536
#1	1040.284	104.5868	1096.213	1118.810	74.38268	90.77462	107.6388
#2	1031.171	104.1091	1083.604	1103.329	73.20524	81.58140	106.4681
#3	1031.073	89.42300	1082.870	1106.559	74.06919	81.13479	103.7015
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	114.3655	81.15215	70.23882	103.0969	107.3494	84.64992	84.41572
SDEV	2.7696	5.23956	2.14587	3.0940	3.8697	8.09324	4.27057
%RSD	2.421730	6.456461	3.055110	3.001032	3.604796	9.560838	5.058971
#1	113.1868	87.18047	67.97357	99.87334	111.5117	93.88049	89.21915
#2	112.3801	78.58237	70.50183	106.0425	106.6758	78.77050	82.97993
#3	117.5295	77.69361	72.24107	103.3747	103.8607	81.29879	81.04808
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-10.0000

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	19.89459	-4.48733	3.474782	888.7161	28.85568	2511.378
SDEV	1.72751	1.40902	.642946	5.8150	.41677	13.411
%RSD	8.683301	31.40000	18.50321	.6543152	1.444335	.5340192
#1	20.56260	-3.39409	3.751940	895.4143	29.33686	2496.267
#2	21.18835	-3.99041	2.739740	885.7730	28.62221	2521.867
#3	17.93283	-6.07748	3.932665	884.9609	28.60797	2516.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: SDI1003179-17 OPERATOR:
RUN TIME: 03/30/10 22:03:34
COMMENT: SDG:MB8241 CLIENTID:MB8261L 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1431245	5325.156	10.88924	.0696053	129.9602	-.554757	6.584516
SDEV	.7120863	37.585	.06346	.0263063	42.9937	.226900	.384275
%RSD	497.5294	.7057929	.5827602	37.79357	33.08223	40.90080	5.836045
#1	-.523842	5363.455	10.83812	.0897154	158.6865	-.812832	6.424236
#2	.8930615	5288.329	10.86933	.0792661	80.53194	-.386582	7.022986
#3	.0601538	5323.685	10.96026	.0398345	150.6621	-.464858	6.306326
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	18.75857	8.731416	12452.50	960.1221	1879.111	84.12729	851.0641
SDEV	.20872	.374926	50.82	11.2796	5.903	.34050	195.3321
%RSD	1.112665	4.293988	.4080874	1.174812	.3141173	.4047497	22.95152
#1	18.85237	8.325902	12510.94	964.9959	1885.582	84.43377	901.8591
#2	18.90393	9.065468	12418.69	968.1454	1874.023	83.76075	1015.981
#3	18.51940	8.802876	12427.88	947.2251	1877.727	84.18734	635.3523
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	12.39603	-2.63749	20.10853	28.46317	6.305729	-.811453	-.065321
SDEV	.58464	2.86921	.44004	.22632	.807807	.806494	1.893676
%RSD	4.716373	108.7855	2.188304	.7951229	12.81069	99.38889	2899.023
#1	11.96092	-5.52026	19.85002	28.32436	6.913855	-.142740	.4183171
#2	13.06059	.2179649	20.61661	28.34084	5.389139	-.584516	-2.15392
#3	12.16658	-2.61019	19.85895	28.72433	6.614194	-1.70710	1.539635
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.201982	10.22297	4.344355	-5.51589	2.651092	.7663236	-1.60395
SDEV	2.055734	2.57958	1.122099	1.50333	2.525712	4.343767	1.06415
%RSD	25.06387	25.23320	25.82889	27.25449	95.27065	566.8320	66.34595
#1	5.865779	13.19449	3.772681	-6.75276	3.993675	5.204531	-2.81717
#2	9.734305	8.915505	3.623217	-5.95227	-.262370	.5708430	-1.16611
#3	9.005861	8.558911	5.637166	-3.84265	4.221969	-3.47640	-.828554
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	6.469101	-2.82593	1.112347	171.4752	4.338193	2535.689
SDEV	3.434502	2.13134	.159818	9.6608	.633438	7.674
%RSD	53.09087	75.42091	14.36765	5.633923	14.60142	.3026240
#1	5.784347	-5.17330	1.281446	161.8622	3.637548	2527.200
#2	3.428560	-1.01191	1.091796	181.1831	4.506674	2537.733
#3	10.19440	-2.29260	.9637980	171.3803	4.870357	2542.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032614-PS1 OPERATOR:
RUN TIME: 03/30/10 22:10:34
COMMENT: SDG:MB8241 CLIENTID:MB8261A 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.22006	26072.19	54.85861	11.34160	986.5489	9.051009	133.0005
SDEV	.51270	94.45	.15339	.04601	6.3876	.062871	.7891
%RSD	2.416102	.3622491	.2796110	.4056871	.6474733	.6946255	.5933053
#1	20.63230	25963.74	54.73564	11.35161	992.0478	9.004529	132.0932
#2	21.57532	26136.38	55.03049	11.38178	988.0568	9.025954	133.5263
#3	21.45256	26116.45	54.80970	11.29141	979.5423	9.122544	133.3821
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	116.2869	97.08902	61115.43	5638.093	9147.440	449.9507	3753.242
SDEV	.5208	1.37187	212.50	18.648	38.263	2.8060	86.461
%RSD	.4478672	1.413005	.3477101	.3307570	.4182971	.6236194	2.303637
#1	115.8411	95.91205	60871.56	5642.707	9103.342	446.9044	3774.444
#2	116.1602	96.75930	61260.84	5654.002	9167.118	450.5183	3827.130
#3	116.8594	98.59570	61213.90	5617.571	9171.859	452.4296	3658.152
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	142.2188	49.59894	203.8077	261.2205	52.45548	63.89360	123.2007
SDEV	1.1778	2.37236	1.1393	1.2571	.86399	3.71242	1.6440
%RSD	.8281652	4.783080	.5589916	.4812522	1.647090	5.810316	1.334394
#1	141.6789	49.15826	202.4980	259.7704	53.45310	67.96840	121.9719
#2	143.5698	47.47781	204.3563	262.0044	51.96280	60.70335	122.5620
#3	141.4078	52.16073	204.5689	261.8865	51.95053	63.00906	125.0682
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	57.92849	61.02549	48.17083	123.9424	122.8256	65.43562	63.11889
SDEV	2.55168	.57771	1.18990	5.9027	.5339	7.10580	4.43737
%RSD	4.404885	.9466766	2.470160	4.762430	.4347156	10.85922	7.030181
#1	60.61277	61.33782	49.51055	119.9883	122.9574	68.12096	67.88735
#2	55.53417	60.35884	47.76500	121.1116	123.2812	57.37849	62.35842
#3	57.63855	61.37980	47.23694	130.7273	122.2381	70.80742	59.11090
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	16.34492	-4.11081	2.768837	870.0278	24.02468	2500.111
SDEV	5.05687	3.84536	.577827	5.8082	.14493	15.109
%RSD	30.93847	93.54271	20.86893	.6675832	.6032500	.6043401
#1	22.06667	-3.18863	3.429603	864.3721	23.93378	2487.066
#2	14.49308	-.810378	2.518609	869.7340	24.19181	2496.600
#3	12.47502	-8.33341	2.358300	875.9773	23.94844	2516.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-01 OPERATOR:
RUN TIME: 03/30/10 22:17:35
COMMENT: SDG:MB8241 CLIENTID:MB8241 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.435867	43763.02	490.6456	2.858339	5683.742	-1.26675	49.25479
SDEV	.207089	470.85	4.8587	.062159	36.025	.14531	.52979
%RSD	47.51185	1.075898	.9902764	2.174653	.6338335	11.47126	1.075621
#1	-.505936	43667.07	489.7291	2.786888	5642.578	-1.17772	48.68008
#2	-.598832	44274.44	495.8974	2.888159	5709.519	-1.18810	49.72371
#3	-.202834	43347.54	486.3104	2.899969	5699.129	-1.43444	49.36057
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	96.95935	88.74641	117837.4	8015.282	20767.23	770.2124	8380.732
SDEV	1.21999	.50790	1194.9	63.583	209.83	8.0302	78.569
%RSD	1.258252	.5722998	1.014030	.7932678	1.010397	1.042598	.9374898
#1	96.29946	89.17551	117091.7	7990.065	20665.21	767.3390	8357.261
#2	98.36716	88.87807	119215.7	8087.605	21008.57	779.2841	8468.361
#3	96.21143	88.18565	117205.0	7968.176	20627.92	764.0142	8316.574
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	111.2280	4.120732	134.6824	327.4801	59.02884	-2.11054	5.175037
SDEV	.6578	1.905177	1.2981	3.6892	1.40146	2.77863	.714834
%RSD	.5914125	46.23394	.9638247	1.126529	2.374198	131.6553	13.81312
#1	110.4772	6.126099	134.1541	326.1544	57.48320	-.656257	5.856045
#2	111.7032	3.901359	136.1614	331.6489	59.38650	-.360862	4.430604
#3	111.5035	2.334738	133.7318	324.6370	60.21681	L-5.31449	5.238463
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	103.6280	68.79549	54.14625	4.069636	5.722102	8.664887	-7.49498
SDEV	1.1459	2.56440	1.48341	1.363335	.660055	8.336190	.21823
%RSD	1.105750	3.727576	2.739627	33.50017	11.53518	96.20656	2.911668
#1	104.0041	66.15750	53.14620	5.643047	5.957591	13.47141	-7.71429
#2	104.5385	71.27936	53.44194	3.327257	4.976599	13.48417	-7.27785
#3	102.3413	68.94960	55.85061	3.238604	6.232117	-.960913	-7.49279
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	15.00537	-5.30204	12.53724	1276.111	37.85370	2526.222
SDEV	4.02462	1.06051	1.15941	12.700	.02194	19.899
%RSD	26.82121	20.00200	9.247729	.9952078	.0579694	.7877154
#1	13.37822	-6.50224	11.20921	1276.127	37.86998	2532.800
#2	12.04908	-4.49140	13.34783	1288.803	37.82874	2503.867
#3	19.58881	-4.91247	13.05468	1263.403	37.86236	2542.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-02 OPERATOR:
RUN TIME: 03/30/10 22:24:35
COMMENT: SDG:MB8241 CLIENTID:MB8242 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.906672	33110.39	350.1149	1.890455	4837.823	-1.22456	31.89684
SDEV	.354749	247.16	2.3273	.082391	48.542	.16900	.28845
%RSD	39.12647	.7464778	.6647150	4.358256	1.003381	13.80124	.9043311
#1	-1.30427	33144.43	350.8723	1.980511	4782.097	-1.41457	32.09063
#2	-.622517	32847.96	347.5033	1.871991	4870.908	-1.16812	31.56535
#3	-.793234	33338.76	351.9691	1.818863	4860.463	-1.09101	32.03456
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	75.22605	54.50698	84488.56	5797.875	16528.75	649.4611	5772.246
SDEV	.40801	.53359	528.45	38.154	107.01	4.3657	81.394
%RSD	.5423772	.9789386	.6254649	.6580651	.6474435	.6722038	1.410097
#1	75.69471	53.89088	84828.45	5817.222	16566.97	650.7131	5849.872
#2	74.94998	54.80895	83879.74	5753.923	16407.87	644.6061	5687.545
#3	75.03347	54.82111	84757.49	5822.480	16611.40	653.0640	5779.321
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	87.30692	2.020649	97.01095	240.6359	41.66976	-4.08494	2.272920
SDEV	.28416	3.807689	.34718	1.7149	.74603	1.84514	.828434
%RSD	.3254715	188.4389	.3578759	.7126650	1.790343	45.16942	36.44801
#1	87.59448	5.673690	96.99171	240.9666	42.53067	-3.73927	2.334713
#2	87.02629	2.313082	96.67379	238.7797	41.21285	-2.43708	3.068726
#3	87.29999	-1.92482	97.36735	242.1614	41.26578	L-6.07847	1.415319
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	97.77998	49.69831	37.65501	1.984655	2.412030	3.982550	-8.11744
SDEV	.69735	2.39439	1.31962	2.339501	2.340924	2.883727	1.41125
%RSD	.7131855	4.817859	3.504501	117.8795	97.05206	72.40907	17.38536
#1	97.21698	50.75988	38.41570	3.075792	1.959904	3.720499	-7.46839
#2	97.56290	51.37839	36.13124	-.701084	4.946039	6.988359	-7.14750
#3	98.56005	46.95666	38.41808	3.579257	.3301469	1.238792	-9.73644
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	16.84563	-4.63322	13.03298	1026.770	29.36036	2526.711
SDEV	2.42022	1.25774	.30432	6.730	.19137	17.746
%RSD	14.36702	27.14614	2.334988	.6554800	.6518104	.7023335
#1	16.70882	-3.20341	13.08093	1025.301	29.16160	2516.733
#2	14.49672	-5.56868	13.31047	1020.896	29.54338	2547.200
#3	19.33135	-5.12757	12.70753	1034.113	29.37609	2516.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-03 OPERATOR:
RUN TIME: 03/30/10 22:31:35
COMMENT: SDG:MB8241 CLIENTID:MB8243 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.66007	46333.02	729.4888	2.278679	49581.25	16.58422	43.18330
SDEV	.54504	96.10	.8339	.089786	191.89	.60827	.33504
%RSD	2.405285	.2074122	.1143135	3.940270	.3870264	3.667742	.7758561
#1	22.03214	46278.55	729.3913	2.378645	49474.87	16.13063	42.99571
#2	22.93729	46276.52	728.7079	2.252501	49466.12	16.34660	42.98408
#3	23.01076	46443.98	730.3671	2.204892	49802.77	17.27543	43.57011
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	335.1738	990.0388	108547.6	11438.83	42286.68	930.8965	45973.39
SDEV	.3869	6.3036	82.8	24.90	31.73	2.1102	126.19
%RSD	.1154335	.6367047	.0762689	.2177106	.0750325	.2266879	.2744857
#1	334.7432	984.6768	108552.6	11456.59	42258.90	928.6906	45877.29
#2	335.4923	988.4569	108462.4	11410.37	42279.90	931.1031	45926.59
#3	335.2859	996.9827	108627.7	11449.55	42321.26	932.8958	46116.30
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	279.3186	5.080394	168.9380	2509.547	1342.090	-.782987	5.469954
SDEV	.2072	2.963232	.0994	2.813	3.087	2.408825	1.792213
%RSD	.0741717	58.32682	.0588130	.1120790	.2300048	307.6456	32.76469
#1	279.1818	6.161725	168.9070	2507.094	1338.527	1.401703	3.400484
#2	279.2171	1.728361	169.0491	2508.929	1343.972	-3.36623	6.504164
#3	279.5570	7.351096	168.8578	2512.617	1343.770	-.384431	6.505213
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	37.93370	1356.984	1334.651	6.579107	4.911334	11.13015	-6.73550
SDEV	1.84668	6.268	1.706	1.989581	2.474974	3.32595	5.03537
%RSD	4.868180	.4619259	.1278034	30.24089	50.39310	29.88229	74.75872
#1	39.75288	1349.866	1332.864	5.684078	2.255508	7.290337	-1.54309
#2	37.98754	1359.411	1336.262	5.194239	7.153269	13.11140	-11.5976
#3	36.06069	1361.677	1334.827	8.859003	5.325226	12.98872	-7.06584
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	116.6292	2.220868	25.96562	1634.373	118.2814	2492.778
SDEV	4.1828	.783668	.82163	7.353	.7297	8.917
%RSD	3.586449	35.28654	3.164312	.4498705	.6169168	.3577290
#1	113.1018	2.249388	25.36786	1625.898	117.5656	2484.200
#2	121.2502	2.989887	26.90254	1639.053	119.0242	2492.133
#3	115.5356	1.423330	25.62646	1638.168	118.2545	2502.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/30/10 22:38:36
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	102.6135	50366.54	990.1318	988.2737	50201.13	995.7302	996.7491
SDEV	1.0504	306.31	5.5541	8.1065	287.17	6.2850	5.8426
%RSD	1.023615	.6081629	.5609492	.8202721	.5720308	.6311930	.5861679
#1	103.5895	50672.96	995.0748	996.6669	50512.62	1002.069	1003.059
#2	101.5019	50366.32	991.1991	987.6663	50143.87	995.6213	995.6605
#3	102.7491	50060.34	984.1215	980.4880	49946.91	989.5004	991.5274
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1010.695	1024.967	24929.75	50114.86	47282.96	970.2864	50707.06
SDEV	5.476	7.005	106.26	198.29	268.12	6.8177	528.19
%RSD	.5418531	.6834136	.4262494	.3956809	.5670647	.7026465	1.041642
#1	1015.818	1032.943	25026.58	50252.94	47518.02	977.1790	51276.27
#2	1011.346	1019.812	24946.59	50204.00	47339.94	970.1340	50612.12
#3	1004.923	1022.147	24816.07	49887.64	46990.93	963.5461	50232.78
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	998.2574	1015.353	996.4706	1096.171	997.1831	1013.957	984.0449
SDEV	4.4936	7.883	5.9558	7.116	3.4199	10.418	12.6397
%RSD	.4501452	.7763979	.5976898	.6492113	.3429587	1.027439	1.284462
#1	1002.647	1024.190	1002.145	1102.241	1000.562	1024.136	970.4993
#2	998.4593	1012.824	996.9985	1097.935	997.2634	1003.316	986.1112
#3	993.6663	1009.045	990.2685	1088.339	993.7237	1014.421	995.5240
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1000.506	995.1412	998.1967	979.7105	986.2040	1025.298	1008.290
SDEV	5.991	7.2516	2.2536	14.4745	11.7242	10.170	11.247
%RSD	.5988320	.7287022	.2257650	1.477426	1.188825	.9919155	1.115499
#1	1004.317	1003.418	999.1305	964.2619	973.6085	1036.960	1017.728
#2	1003.601	992.1036	999.8332	981.9106	988.2035	1018.270	995.8448
#3	993.6003	989.9023	995.6263	992.9590	996.7998	1020.665	1011.298
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1016.596	1017.319	1002.654	1024.304	1012.254	2503.977
SDEV	4.417	3.890	3.742	7.859	4.054	10.376
%RSD	.4345269	.3823445	.3731707	.7672826	.4004498	.4143651
#1	1017.604	1019.900	1005.794	1033.372	1013.114	2502.533
#2	1020.423	1019.212	1003.654	1019.463	1015.808	2494.400
#3	1011.763	1012.845	998.5140	1020.077	1007.839	2515.000
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/30/10 22:45:37
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9222444	-18.9372	-.303998	-.073244	-19.1216	.1030188	.2927902
SDEV	1.215980	12.5967	.194373	.178932	84.3280	.3965580	.4480377
%RSD	131.8501	66.51817	63.93892	244.2959	441.0084	384.9374	153.0234
#1	.2488271	-32.3105	-.514395	-.279626	-67.8409	-.333966	-.133728
#2	.1919534	-17.2044	-.266480	.0384116	78.25195	.2030134	.2524764
#3	2.325953	-7.29661	-.131119	.0214821	-67.7759	.4400088	.7596225
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5196773	.4532453	10.03515	5.892399	2.875201	-.091607	9.202908
SDEV	.9141496	.7059584	21.75228	4.224823	8.525259	.276641	47.84666
%RSD	175.9071	155.7564	216.7609	71.69954	296.5101	301.9855	519.9081
#1	-.246924	-.182917	-5.27858	5.187690	-6.59879	-.386783	-1.30225
#2	.2745581	.3299072	.4502381	2.064242	5.296462	-.049773	-32.5183
#3	1.531398	1.212745	34.93379	10.42526	9.927933	.1617336	61.42925
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1354633	-.222423	.3642046	.2076967	-1.46779	-.493114	5.697704
SDEV	1.019027	3.607690	.8265649	.1735556	.65449	1.905459	2.332703
%RSD	752.2531	1621.992	226.9507	83.56202	44.59009	386.4132	40.94111
#1	-.816469	1.742865	-.228999	.0074284	-1.41047	-1.83433	8.232556
#2	.0124423	-4.38605	.0132784	.3014278	-.843842	-1.33301	3.641357
#3	1.210416	1.975916	1.308334	.3142340	-2.14905	1.688000	5.219198
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.17183	1.152074	-2.78059	3.474080	6.803070	6.000778	-3.73997
SDEV	1.95811	1.232262	.42509	.789677	3.711075	2.398967	3.85825
%RSD	167.0980	106.9604	15.28772	22.73052	54.55001	39.97760	103.1625
#1	-.967960	1.646867	-2.94162	3.309519	10.68561	5.913740	-5.70733
#2	-3.22390	2.060037	-2.29851	4.333071	3.291289	8.442080	-6.21796
#3	.6763637	-.250682	-3.10163	2.779651	6.432314	3.646514	.7053829
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.6258706	-1.44875	1.046271	8.327957	.5253991	2540.689
SDEV	3.081753	1.54579	.519225	18.01334	.5831878	25.938
%RSD	492.3946	106.6984	49.62623	216.2997	110.9990	1.020911
#1	-1.54715	-.288975	1.495546	-2.81553	.2706039	2541.267
#2	-.728052	-3.20365	1.165450	-1.31041	.1129657	2566.333
#3	4.152809	-.853617	.4778189	29.10982	1.192628	2514.467
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-04 OPERATOR:
RUN TIME: 03/30/10 22:52:38
COMMENT: SDG:MB8241 CLIENTID:MB8247 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	36.18232	40943.30	1336.041	1.730077	90130.06	58.55011	36.25286
SDEV	.52043	453.38	15.258	.090897	528.74	.16739	.12677
%RSD	1.438368	1.107337	1.142041	5.253930	.5866415	.2858836	.3496751
#1	35.58159	41438.93	1352.789	1.828168	90721.83	58.65686	36.15178
#2	36.46880	40549.49	1322.930	1.648691	89704.08	58.35720	36.21170
#3	36.49658	40841.48	1332.405	1.713373	89964.28	58.63628	36.39509
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	848.4142	1889.414	116912.2	10019.42	56139.82	869.0764	41268.45
SDEV	7.1058	3.231	1014.3	116.74	461.46	7.7155	332.21
%RSD	.8375446	.1710204	.8676131	1.165132	.8219923	.8877798	.8049916
#1	856.0530	1892.885	118002.6	10150.23	56633.13	877.4104	41585.12
#2	842.0006	1886.492	115996.6	9925.827	55718.72	862.1823	40922.62
#3	847.1890	1888.866	116737.5	9982.205	56067.60	867.6365	41297.62
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	371.6305	7.167758	188.0676	3995.264	2951.590	.8274288	15.06808
SDEV	2.8925	1.832625	1.6400	33.408	17.216	4.453191	1.68105
%RSD	.7783353	25.56762	.8720391	.8361825	.5832626	538.1963	11.15637
#1	374.7231	6.108007	189.8565	4030.503	2968.243	4.866680	14.19761
#2	368.9917	6.111377	186.6350	3964.052	2933.862	1.563570	14.00076
#3	371.1765	9.283891	187.7112	3991.238	2952.666	-3.94796	17.00586
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	73.61494	2974.776	2940.009	14.73753	15.22822	11.59523	-4.55329
SDEV	1.85962	20.653	17.144	4.09700	2.48433	7.30807	5.47099
%RSD	2.526142	.6942730	.5831371	27.79978	16.31401	63.02652	120.1548
#1	75.75304	2998.439	2953.161	10.00858	16.28405	11.12192	1.738811
#2	72.37400	2960.376	2920.619	17.21668	12.39037	19.12844	-7.21055
#3	72.71776	2965.513	2946.246	16.98735	17.01025	4.535316	-8.18812
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	235.9102	6.869788	25.92787	1728.727	100.6565	2486.022
SDEV	4.2985	.763427	.28143	12.303	1.4347	22.357
%RSD	1.822083	11.11282	1.085450	.7116942	1.425304	.8993137
#1	238.5505	6.127589	25.62635	1741.335	102.1135	2461.800
#2	238.2300	7.652805	26.18361	1716.753	99.24522	2505.867
#3	230.9502	6.828969	25.97365	1728.092	100.6109	2490.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-05 OPERATOR:
RUN TIME: 03/30/10 22:59:38
COMMENT: SDG:MB8241 CLIENTID:MB8248 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	54.82560	41668.38	1907.259	1.799781	157423.3	79.76144	36.09369
SDEV	.77674	212.41	8.514	.060057	232.0	.21277	.67985
%RSD	1.416746	.5097528	.4464060	3.336889	.1473932	.2667637	1.883583
#1	55.06854	41773.18	1912.586	1.731033	157678.6	79.51932	36.87416
#2	53.95643	41808.02	1911.751	1.842040	157365.9	79.84634	35.63029
#3	55.45183	41423.94	1897.440	1.826268	157225.3	79.91866	35.77662
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	816.1561	2028.900	124348.1	6989.132	79981.09	923.0212	40424.67
SDEV	1.3723	5.161	224.8	31.987	213.39	1.9134	287.10
%RSD	.1681358	.2543845	.1808115	.4576613	.2667975	.2072997	.7102028
#1	815.1315	2030.947	124261.3	7007.185	80021.78	924.3586	40684.48
#2	817.7152	2023.029	124603.4	7008.012	80171.20	923.8755	40473.10
#3	815.6217	2032.724	124179.5	6952.201	79750.28	920.8295	40116.44
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	358.5507	6.994831	303.7988	4265.812	5363.386	.8961731	21.30701
SDEV	1.1147	2.130769	.5692	14.769	22.710	1.091587	.82114
%RSD	.3108874	30.46205	.1873664	.3462200	.4234257	121.8054	3.853859
#1	359.1344	5.474556	304.3803	4274.194	5351.685	.9827528	22.24921
#2	359.2523	6.079633	303.7732	4274.484	5389.560	1.941892	20.92796
#3	357.2654	9.430305	303.2428	4248.759	5348.913	-.236125	20.74387
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	94.35974	5421.990	5334.123	19.11643	22.39808	17.41606	-7.35633
SDEV	1.08488	20.339	26.795	2.80927	.17145	6.63321	1.85110
%RSD	1.149727	.3751123	.5023386	14.69557	.7654600	38.08675	25.16342
#1	95.58568	5426.699	5314.229	22.33977	22.20140	15.36347	-6.20179
#2	93.96986	5439.561	5364.592	17.82027	22.47687	24.83295	-9.49144
#3	93.52368	5399.710	5323.547	17.18925	22.51597	12.05177	-6.37577
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	950.8123	10.69379	23.38252	1939.545	452.9246	2459.689
SDEV	4.4499	1.15761	.68652	3.078	1.3571	17.772
%RSD	.4680100	10.82508	2.936025	.1587016	.2996331	.7225419
#1	953.6368	11.21466	23.40747	1943.037	453.2339	2448.867
#2	953.1173	9.367243	24.05622	1938.369	454.1004	2450.000
#3	945.6827	11.49945	22.68387	1937.228	451.4396	2480.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-06 OPERATOR:
RUN TIME: 03/30/10 23:06:38
COMMENT: SDG:MB8241 CLIENTID:MB8249 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	12.16342	32987.35	1405.287	1.556052	125337.4	10.87385	19.53305
SDEV	.17447	462.79	20.310	.039385	1637.6	.18930	.41663
%RSD	1.434379	1.402934	1.445260	2.531068	1.306550	1.740856	2.132935
#1	12.23925	33380.71	1423.704	1.600961	126470.0	11.06586	20.01387
#2	12.28715	32477.42	1383.504	1.539806	123459.8	10.68738	19.30617
#3	11.96387	33103.93	1408.653	1.527389	126082.6	10.86830	19.27909
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	181.6437	930.6741	63133.31	5196.227	70190.00	730.9009	47644.56
SDEV	2.1318	5.7381	783.44	71.561	907.24	9.9219	614.84
%RSD	1.173631	.6165565	1.240928	1.377170	1.292547	1.357495	1.290476
#1	183.1174	934.3156	63814.88	5262.049	70929.16	739.1223	47998.56
#2	179.1992	924.0596	62277.38	5120.054	69177.52	719.8799	46934.60
#3	182.6143	933.6473	63307.66	5206.576	70463.32	733.7005	48000.50
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	105.7101	-1.20264	117.1560	2415.693	1797.091	2.206567	11.92445
SDEV	1.1134	3.38989	1.6814	34.837	15.498	1.832781	1.71308
%RSD	1.053248	281.8713	1.435189	1.442124	.8623785	83.06028	14.36611
#1	106.7523	-3.46514	118.7267	2442.593	1806.610	2.683372	10.05846
#2	104.5371	-2.83763	115.3823	2376.341	1779.208	.1825058	12.28893
#3	105.8409	2.694865	117.3589	2428.144	1805.455	3.753824	13.42595
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	76.96757	1815.618	1787.833	11.00052	12.38082	8.178370	-.779752
SDEV	3.16994	16.333	15.156	3.11084	1.23272	8.346319	2.867168
%RSD	4.118539	.8995978	.8477557	28.27900	9.956680	102.0536	367.7025
#1	80.22252	1827.346	1796.249	8.230460	10.96615	16.18893	-4.06422
#2	76.79008	1796.963	1770.336	10.40505	13.22461	-.467413	.5021343
#3	73.89010	1822.544	1796.915	14.36605	12.95171	8.813597	1.222830
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	212.3998	3.928160	8.383818	1587.863	594.8149	2483.689
SDEV	2.5977	5.052507	1.738026	19.814	7.3473	24.236
%RSD	1.223047	128.6227	20.73073	1.247818	1.235221	.9757922
#1	211.8070	9.711742	9.829107	1604.608	601.4396	2461.066
#2	210.1496	.3726996	8.867029	1565.989	586.9126	2509.267
#3	215.2426	1.700038	6.455317	1592.993	596.0925	2480.733
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-07 OPERATOR:
RUN TIME: 03/30/10 23:13:38
COMMENT: SDG:MB8241 CLIENTID:MB8250 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.03152	30100.67	1530.050	1.577639	141818.6	15.50432	29.86741
SDEV	.35780	64.31	3.781	.052510	475.4	.07394	.77519
%RSD	1.880063	.2136367	.2470895	3.328413	.3352089	.4769083	2.595440
#1	18.73408	30042.81	1527.172	1.626215	141414.3	15.47412	29.48814
#2	19.42857	30169.90	1534.332	1.584776	142342.3	15.45025	30.75921
#3	18.93190	30089.29	1528.647	1.521925	141699.1	15.58858	29.35488
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	327.2339	1436.097	103258.8	4617.817	43352.53	765.2907	17805.92
SDEV	1.7021	7.399	484.5	9.240	176.70	3.3913	42.29
%RSD	.5201464	.5152119	.4691792	.2001035	.4075895	.4431336	.2375022
#1	326.1849	1430.178	102984.6	4624.255	43238.31	763.0347	17798.43
#2	329.1977	1433.720	103818.2	4621.968	43556.06	769.1906	17851.45
#3	326.3189	1444.392	102973.6	4607.230	43263.21	763.6466	17767.87
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	146.2415	9.354062	129.5800	3723.508	3343.616	8.716220	23.26961
SDEV	.4509	3.821590	.6806	18.350	20.841	2.955862	2.19960
%RSD	.3083254	40.85487	.5252389	.4928055	.6233209	33.91221	9.452681
#1	145.9613	5.281248	129.1150	3709.925	3334.782	7.620441	23.83913
#2	146.7617	12.86142	130.3612	3744.383	3367.419	6.464721	25.12844
#3	146.0017	9.919522	129.2639	3716.217	3328.646	12.06350	20.84126
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	109.8585	3375.407	3327.738	25.07142	22.36721	20.86179	2.647640
SDEV	2.8961	16.587	22.983	3.22303	2.73811	4.55630	2.463626
%RSD	2.636187	.4914031	.6906574	12.85540	12.24162	21.84042	93.04988
#1	106.6636	3369.393	3317.498	22.54134	24.48420	17.45624	2.705008
#2	110.6003	3394.162	3354.062	28.70013	23.34243	19.09160	.1558313
#3	112.3114	3362.667	3311.655	23.97279	19.27500	26.03754	5.082081
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	423.5123	9.059125	13.39048	1318.560	179.7617	2482.266
SDEV	3.3469	1.635766	.64281	10.382	.5789	13.016
%RSD	.7902640	18.05655	4.800474	.7873943	.3220337	.5243603
#1	420.0846	8.965157	12.65384	1310.563	179.0940	2477.133
#2	426.7720	7.472369	13.67998	1330.293	180.0699	2472.600
#3	423.6802	10.73985	13.83763	1314.824	180.1214	2497.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-08 OPERATOR:
RUN TIME: 03/30/10 23:20:39
COMMENT: SDG:MB8241 CLIENTID:MB8251 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5854993	36697.81	349.3471	2.016682	18042.54	.3448607	51.76579
SDEV	.3360116	1459.88	14.0645	.207965	592.47	.1976483	1.82217
%RSD	57.38890	3.978112	4.025947	10.31223	3.283739	57.31250	3.520029
#1	.2952343	38164.61	363.4122	2.216240	18556.30	.5657101	53.53546
#2	.5076666	36683.86	349.3460	2.032584	18176.88	.2842760	51.86661
#3	.9535970	35244.95	335.2832	1.801223	17394.43	.1845961	49.89531
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	246.9778	65.24149	62910.85	5523.157	15168.48	327.9659	20035.69
SDEV	9.7710	.12475	2519.54	194.845	606.82	12.6321	597.97
%RSD	3.956229	.1912059	4.004940	3.527774	4.000519	3.851654	2.984527
#1	256.8479	65.38547	65406.70	5724.409	15765.88	340.3448	20636.61
#2	246.7766	65.16584	62957.58	5509.638	15186.91	328.4580	20029.73
#3	237.3090	65.17315	60368.27	5335.424	14552.67	315.0950	19440.72
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	102.1976	1.087019	362.7939	253.0218	85.79810	13.78412	1.796736
SDEV	3.8516	2.184288	14.1649	10.0837	2.19287	4.60638	1.042963
%RSD	3.768810	200.9429	3.904391	3.985304	2.555849	33.41803	58.04769
#1	106.0658	-.809692	377.1397	262.9510	87.75804	19.08697	1.646716
#2	102.1642	.5955915	362.4248	253.3239	86.20654	11.49124	2.906585
#3	98.36279	3.475159	348.8171	242.7904	83.42973	10.77415	.8369054
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	91.00680	94.73731	81.32880	.2328283	2.572765	19.53952	10.90598
SDEV	5.29278	.39623	3.10671	1.447110	1.620461	8.60995	2.62714
%RSD	5.815809	.4182379	3.819944	621.5354	62.98520	44.06429	24.08899
#1	92.73476	95.17712	84.04743	1.840361	1.545120	29.47965	13.89350
#2	95.21966	94.62660	81.99641	-.175960	4.440785	14.73272	9.868170
#3	85.06600	94.40821	77.94255	-.965916	1.732388	14.40620	8.956266
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	24.26204	-4.91655	7.390996	725.8297	62.44257	2556.889
SDEV	3.70545	3.39253	.507858	29.7914	3.03295	91.647
%RSD	15.27261	69.00229	6.871306	4.104458	4.857179	3.584318
#1	28.18299	-3.45268	7.261648	755.0878	65.16324	2469.066
#2	20.81834	-8.79525	6.960320	726.8689	62.99202	2549.666
#3	23.78478	-2.50173	7.951020	695.5322	59.17246	2651.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-09 OPERATOR:
RUN TIME: 03/30/10 23:27:39
COMMENT: SDG:MB8241 CLIENTID:MB8252 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.222419	16371.42	123.1256	.5728692	2488.533	-.369968	16.67742
SDEV	.443806	224.98	1.6322	.0981371	49.139	.024796	.38095
%RSD	199.5362	1.374212	1.325631	17.13081	1.974604	6.702115	2.284199
#1	-.731604	16535.37	124.3277	.5713016	2462.138	-.398210	16.97252
#2	-.017945	16114.93	121.2675	.4755253	2545.229	-.359925	16.24737
#3	.0822922	16463.97	123.7816	.6717808	2458.233	-.351770	16.81236
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	175.6421	30.13580	21822.37	1825.989	5014.370	162.4137	3289.053
SDEV	2.5108	.13816	309.95	25.257	69.577	1.9245	77.777
%RSD	1.429524	.4584426	1.420329	1.383180	1.387557	1.184965	2.364716
#1	177.0074	30.20346	21965.60	1845.745	5054.607	163.7320	3366.067
#2	172.7444	30.22709	21466.71	1797.532	4934.029	160.2052	3210.535
#3	177.1745	29.97686	22034.80	1834.690	5054.473	163.3038	3290.556
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	55.35252	-4.54241	44.45229	110.5694	23.23864	.5546569	.5087084
SDEV	1.07901	.80208	.35020	1.4720	1.27041	1.886380	1.306398
%RSD	1.949334	17.65748	.7878011	1.331298	5.466814	340.0984	256.8069
#1	55.29918	-4.88658	44.71538	111.7872	24.69259	2.048941	1.796230
#2	54.30117	-3.62569	44.05480	108.9336	22.34293	1.180017	-.815781
#3	56.45720	-5.11496	44.58668	110.9873	22.68039	-1.56499	.5456762
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	7.788154	32.57386	18.57248	-2.80581	2.158711	-3.44541	2.546923
SDEV	.965771	1.52464	1.14836	2.37492	2.459789	2.94870	4.049297
%RSD	12.40052	4.680567	6.183106	84.64316	113.9472	85.58336	158.9878
#1	8.255380	34.33259	19.87422	-4.62048	4.994964	-3.54986	4.839334
#2	6.677620	31.62596	17.70293	-3.67905	.6090116	-6.34050	4.929944
#3	8.431460	31.76305	18.14029	-.117886	.8721556	-.445875	-2.12851
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	12.30940	-3.27870	1.538373	435.0831	8.575658	2545.066
SDEV	1.26479	2.99126	.082185	5.9805	.419431	34.922
%RSD	10.27499	91.23336	5.342365	1.374563	4.890946	1.372144
#1	11.12646	-1.58933	1.444740	435.4014	8.535952	2523.066
#2	13.64262	-1.51431	1.598573	428.9498	8.177492	2585.333
#3	12.15914	-6.73244	1.571805	440.8981	9.013530	2526.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-10 OPERATOR:
RUN TIME: 03/30/10 23:34:40
COMMENT: SDG:MB8241 CLIENTID:MB8253 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.205710	14765.46	68.58507	.4730133	1917.018	-.357384	16.05111
SDEV	.414349	132.97	.59952	.0249480	88.622	.090997	.43477
%RSD	201.4237	.9005570	.8741294	5.274267	4.622925	25.46201	2.708654
#1	.2317207	14842.92	68.97623	.4852114	1881.323	-.257131	15.79660
#2	-.256569	14611.92	67.89484	.4895154	1851.809	-.434758	16.55312
#3	-.592282	14841.54	68.88413	.4443133	2017.921	-.380264	15.80360
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	65.39019	34.93048	27279.16	2102.475	6748.749	186.7211	1501.090
SDEV	.61339	.03631	225.07	21.001	58.979	1.8537	32.110
%RSD	.9380388	.1039607	.8250605	.9988742	.8739184	.9927533	2.139086
#1	66.02660	34.92270	27420.54	2123.163	6785.851	187.9249	1534.480
#2	64.80277	34.97005	27019.62	2081.174	6680.741	184.5864	1470.435
#3	65.34119	34.89868	27397.33	2103.087	6779.657	187.6519	1498.354
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.13289	-7.72239	36.00672	111.1906	24.56675	.2859069	.9282200
SDEV	.51692	.97308	.52214	1.1294	.93778	1.843254	1.156096
%RSD	1.096723	12.60075	1.450130	1.015730	3.817270	644.7041	124.5498
#1	47.72868	-8.59888	36.52894	111.8725	23.60085	.4111322	2.245852
#2	46.80374	-7.89299	35.48465	109.8869	25.47362	-1.61677	.4549896
#3	46.86625	-6.67529	36.00657	111.8123	24.62577	2.063355	.0838182
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	16.84798	31.24826	21.22529	.7635019	1.005642	-6.07567	3.457112
SDEV	.70478	1.33136	.83004	3.488813	2.088981	3.95948	4.080631
%RSD	4.183187	4.260605	3.910607	456.9488	207.7260	65.16947	118.0358
#1	16.95856	29.71590	20.54216	2.487413	2.120405	-10.2361	5.721940
#2	16.09444	32.12139	22.14906	-3.25169	2.300777	-2.35368	-1.25363
#3	17.49094	31.90748	20.98465	3.054785	-1.40426	-5.63718	5.903032
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	12.95852	-2.04002	.9849483	492.8337	7.314140	2522.044
SDEV	3.24056	2.68320	.3986607	5.4827	.092143	19.226
%RSD	25.00716	131.5279	40.47530	1.112478	1.259788	.7623242
#1	16.69573	-1.00350	1.441999	499.0897	7.208997	2504.000
#2	10.92810	-.029693	.7088937	488.8648	7.352603	2542.267
#3	11.25174	-5.08687	.8039523	490.5467	7.380819	2519.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/30/10 23:41:40
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	11.24112	-56.3739	-.458751	4.354765	-66.6406	4.849388	50.47549
SDEV	.25289	4.8214	.026515	.043538	70.0769	.076147	.59922
%RSD	2.249674	8.552510	5.779764	.9997694	105.1565	1.570241	1.187147
#1	11.21132	-54.1883	-.489202	4.380931	3.437079	4.782027	51.10478
#2	11.00444	-53.0324	-.446279	4.378857	-136.717	4.834128	49.91173
#3	11.50758	-61.9010	-.440772	4.304506	-66.6420	4.932010	50.40997
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.851453	26.73542	-2.45637	1.399317	-9.18365	14.48893	195.0507
SDEV	.391787	.36154	2.00647	1.747542	.54166	.10323	91.6355
%RSD	3.976945	1.352280	81.68421	124.8854	5.898098	.7124531	46.98033
#1	9.445646	26.52083	-1.35013	2.919338	-8.83699	14.57522	275.7428
#2	9.881187	26.53261	-1.24651	1.788678	-9.80784	14.37457	213.9806
#3	10.22753	27.15284	-4.77247	-.510066	-8.90614	14.51700	95.42861
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.53117	23.29954	50.39539	54.90145	9.133469	39.69570	61.42719
SDEV	.31156	3.83045	.26846	.33168	.694223	3.31940	3.16289
%RSD	.7686852	16.44003	.5327004	.6041407	7.600867	8.362114	5.149003
#1	40.52187	27.56923	50.52153	54.88211	9.758722	39.25914	59.08353
#2	40.84728	22.16453	50.08710	54.57986	8.386401	36.61619	60.17326
#3	40.22437	20.16486	50.57755	55.24238	9.255283	43.21178	65.02478
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.060638	7.691266	9.847540	57.76010	63.25323	41.43978	38.82021
SDEV	2.149767	.847940	1.122864	5.33116	2.08420	6.68934	2.86996
%RSD	23.72644	11.02472	11.40248	9.229836	3.295011	16.14232	7.392963
#1	Q6.797587	8.305436	10.47833	53.64441	61.79426	36.45924	40.65223
#2	11.07559	8.044560	8.551125	55.85345	62.32517	38.81704	35.51266
#3	9.308734	6.723803	10.51316	63.78243	65.64026	49.04307	40.29574
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	59.50637	48.55732	50.06379	52.03704	50.61074	2550.755
SDEV	3.84670	2.96460	.53769	1.98283	.27944	5.562
%RSD	6.464358	6.105352	1.074019	3.810416	.5521377	.2180459
#1	57.75671	51.84177	49.45948	49.74762	50.36424	2553.933
#2	56.84551	46.07955	50.48933	53.20517	50.91431	2554.000
#3	63.91690	47.75065	50.24255	53.15831	50.55368	2544.333
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/30/10 23:48:40
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3812280	265512.8	2.687650	.5605567	263007.6	-1.62345	5.081728
SDEV	.4918599	2848.5	.064842	.0501250	3105.2	.28028	.502762
%RSD	129.0199	1.072826	2.412604	8.942011	1.180641	17.26476	9.893527
#1	-.128116	268744.4	2.628758	.5196217	266364.5	-1.80273	4.501769
#2	.4182930	263366.2	2.677053	.5455874	260238.0	-1.30046	5.349226
#3	.8535069	264427.9	2.757138	.6164610	262420.3	-1.76716	5.394190
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	243900.0	2.000000	.0000000	234100.0	.0000000	3.000000
RANGE	20.00000	49997.06	400.0000	10.00000	47990.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	48.05412	25.33545	104102.9	-.408164	271968.0	18.84217	964.6103
SDEV	.53302	.43848	881.8	8.810823	2467.2	.06708	37.0411
%RSD	1.109203	1.730716	.8470649	2158.648	.9071600	.3559852	3.840011
#1	47.50471	24.84631	105011.8	-7.79613	274644.4	18.86371	952.4262
#2	48.56908	25.46679	103250.9	-2.77174	269784.4	18.76697	935.1959
#3	48.08855	25.69327	104045.9	9.343382	271475.2	18.89583	1006.209
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	36.00000	15.00000	94900.00	.0000000	248800.0	19.00000	.0000000
RANGE	20.00000	50.00000	19454.00	2000.000	51003.00	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.59261	1.813076	.9967169	29.91656	10.62501	1.620778	2.047455
SDEV	.54939	1.981213	.6526707	.35441	1.35923	2.039634	.190589
%RSD	2.431724	109.2736	65.48206	1.184655	12.79275	125.8429	9.308585
#1	22.38812	2.316965	.2564286	30.28823	10.14522	2.098680	1.845224
#2	22.17478	-.371426	1.489168	29.58240	9.570734	3.379028	2.073396
#3	23.21491	3.493688	1.244554	29.87906	12.15906	-.615375	2.223745
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	1.000000	39.00000	5.000000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.684698	3.141327	14.35493	2.619551	1.756797	21.13788	-8.12818
SDEV	2.683584	1.767389	1.15593	2.268574	.853994	6.04721	4.48415
%RSD	159.2916	56.26250	8.052485	86.60164	48.61083	28.60842	55.16798
#1	-.242081	2.469574	13.97094	.4574738	2.532974	27.82227	-10.7489
#2	4.749816	1.808304	13.43987	2.419771	1.895461	16.04698	-2.95046
#3	.5463594	5.146103	15.65399	4.981407	.8419567	19.54439	-10.6852
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.3672657	-1.55811	-4.25358	1.553689	-4.61483	2415.133
SDEV	5.928193	3.28276	.98099	11.67715	.31001	19.334
%RSD	1614.143	210.6882	23.06264	751.5756	6.717771	.8005218
#1	-6.39995	-1.14353	-5.20576	-11.5253	-4.53760	2393.333
#2	2.858080	-5.02848	-3.24612	10.93236	-4.35073	2430.200
#3	4.643665	1.497662	-4.30886	5.254002	-4.95616	2421.867
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/30/10 23:55:40
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	207.3177	248163.9	502.7209	480.8215	247005.1	977.1154	495.6798
SDEV	1.3398	513.0	1.1288	1.3495	315.6	2.9068	1.2601
%RSD	.6462454	.2067379	.2245429	.2806635	.1277847	.2974917	.2542194
#1	206.7089	248508.9	503.6392	481.6705	247309.4	980.3834	497.0260
#2	206.3904	247574.3	501.4606	479.2654	246679.3	974.8180	494.5285
#3	208.8538	248408.4	503.0628	481.5286	247026.6	976.1450	495.4850
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	210.0000	248400.0	475.0000	482.0000	234300.0	916.0000	455.0000
RANGE	43.00000	50922.00	400.0000	98.00001	48031.00	187.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	539.9655	537.0758	97887.84	.7264083	255240.6	508.3188	895.6803
SDEV	1.4696	2.6537	281.89	1.177838	553.8	1.3515	59.7355
%RSD	.2721601	.4940972	.2879763	162.1454	.2169557	.2658728	6.669292
#1	541.6061	535.8519	98213.30	.8622277	255803.2	509.6150	833.7017
#2	538.7698	535.2549	97720.19	1.830448	254696.1	506.9182	900.4528
#3	539.5206	540.1205	97730.05	-.513451	255222.6	508.4233	952.8864
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	506.0000	537.0000	95100.00	.0000000	254100.0	483.0000	.0000000
RANGE	103.0000	110.0000	19495.00	2000.000	52090.00	99.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1024.347	108.0513	498.8927	1030.213	60.85943	46.23232	623.6789
SDEV	2.548	3.7535	1.0419	2.201	.35738	2.48494	2.3124
%RSD	.2487302	3.473835	.2088362	.2136378	.5872270	5.374904	.3707718
#1	1026.798	112.2928	499.7781	1031.580	60.96764	46.13756	623.1761
#2	1021.712	105.1585	497.7446	1027.674	61.15020	43.79611	621.6592
#3	1024.529	106.7025	499.1552	1031.385	60.46044	48.76328	626.2014
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	930.0000	96.00000	481.0000	975.0000	51.00000	51.00000	585.0000
RANGE	190.0000	50.00000	99.99999	199.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	102.9369	46.81449	67.86513	628.9025	621.0660	68.31218	35.20395
SDEV	2.3691	3.17091	1.88871	4.3679	2.4291	7.44400	2.41164
%RSD	2.301479	6.773358	2.783041	.6945289	.3911107	10.89703	6.850474
#1	100.9791	43.23233	69.81575	631.6611	618.9349	62.82050	37.80360
#2	105.5704	47.94922	67.73457	623.8666	620.5523	65.33140	33.03962
#3	102.2612	49.26192	66.04510	631.1799	623.7108	76.78464	34.76864
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	97.00000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1020.069	1041.379	989.1108	1030.847	1026.655	2440.644
SDEV	4.246	6.129	1.7024	5.628	2.428	6.269
%RSD	.4162135	.5885540	.1721159	.5459619	.2364491	.2568400
#1	1016.147	1034.434	988.4937	1036.765	1028.443	2433.666
#2	1024.578	1043.675	987.8031	1025.563	1023.891	2442.467
#3	1019.483	1046.029	991.0358	1030.212	1027.630	2445.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	205.0000	205.0000	205.0000	205.0000	200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/31/10 00:02:41
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	104.9438	51014.85	1004.283	1004.886	51020.71	1007.154	1010.135
SDEV	.1974	1340.11	26.954	29.152	1495.74	28.940	29.280
%RSD	.1881147	2.626900	2.683870	2.901007	2.931630	2.873482	2.898579
#1	105.0837	52477.95	1033.584	1037.117	52710.91	1039.400	1042.405
#2	104.7180	49846.96	980.5443	980.3621	49867.95	983.4352	985.2659
#3	105.0296	50719.62	998.7220	997.1789	50483.27	998.6269	1002.734
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1021.092	1039.126	25154.13	50597.19	47925.29	983.8234	51802.59
SDEV	28.946	5.003	709.46	1287.20	1366.46	28.4998	1281.74
%RSD	2.834761	.4814446	2.820441	2.544024	2.851229	2.896842	2.474269
#1	1053.187	1040.814	25951.27	52011.92	49443.36	1015.451	53205.06
#2	996.9658	1033.498	24592.01	49495.11	46793.69	960.1349	50691.90
#3	1013.123	1043.066	24919.10	50284.54	47538.82	975.8843	51510.79
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1008.995	1028.641	1009.704	1112.746	1006.713	1030.469	1000.040
SDEV	30.531	25.161	28.402	32.353	24.952	31.036	17.873
%RSD	3.025876	2.446076	2.812913	2.907502	2.478580	3.011792	1.787237
#1	1043.199	1056.102	1041.038	1148.114	1034.879	1065.994	1014.348
#2	984.4954	1006.693	985.6520	1084.644	987.3726	1008.621	980.0055
#3	999.2923	1023.127	1002.422	1105.479	997.8884	1016.792	1005.766
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1013.180	1008.607	1005.762	1003.091	998.5119	1034.852	1028.275
SDEV	24.370	26.176	24.367	14.863	19.9357	35.277	29.132
%RSD	2.405338	2.595234	2.422702	1.481705	1.996537	3.408908	2.833115
#1	1040.019	1038.436	1033.096	1010.274	1016.378	1074.265	1061.859
#2	992.4357	989.4695	986.3197	986.0008	977.0077	1006.235	1009.807
#3	1007.084	997.9147	997.8693	1012.998	1002.150	1024.055	1013.161
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1024.448	1031.156	1016.646	1040.811	1020.970	2498.822
SDEV	33.795	30.915	25.029	31.724	28.007	58.673
%RSD	3.298801	2.998110	2.461945	3.048008	2.743200	2.348040
#1	1062.332	1065.481	1043.621	1076.455	1051.705	2432.800
#2	997.4015	1005.503	994.1731	1015.673	996.8878	2545.000
#3	1013.611	1022.484	1012.145	1030.304	1014.318	2518.666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/31/10 00:09:43
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7845054	-23.6699	-.255118	-.326646	29.86961	.1882881	.0806217
SDEV	.3499804	38.2782	.156582	.268367	111.0186	.0750601	.2948939
%RSD	44.61160	161.7172	61.37625	82.15833	371.6776	39.86452	365.7750
#1	1.006326	-63.5936	-.366487	-.608306	6.886382	.1101915	.2849260
#2	.9661413	12.71737	-.076082	-.073917	150.5810	.2598897	.2143873
#3	.3810493	-20.1333	-.322784	-.297715	-67.8586	.1947830	-.257448
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3456198	.6161323	8.418030	5.237669	17.19291	-.105696	175.4773
SDEV	.2470269	.1290389	12.23307	5.480474	21.43099	.128018	112.3957
%RSD	71.47358	20.94337	145.3199	104.6357	124.6501	121.1192	64.05144
#1	.4739661	.6518735	-2.79944	3.325077	-.943373	-.198117	302.3752
#2	.5020543	.7235333	21.46144	11.41815	40.84165	.0404263	135.5977
#3	.0608391	.4729902	6.592093	.9697837	11.68047	-.159396	88.45917
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.003170	-1.38929	.1370174	.1413887	-1.14264	-.532615	4.026306
SDEV	.702775	4.82854	.2083332	.2642220	.74338	4.273368	2.557246
%RSD	22166.43	347.5552	152.0488	186.8763	65.05824	802.3376	63.51346
#1	-.060151	-.660756	.0495732	-.075841	-1.99712	Q-5.41139	6.188799
#2	.7263606	3.033590	.3748216	.4355345	-.644581	1.266564	4.686387
#3	-.675721	-6.54070	-.013343	.0644722	-.786223	2.546978	1.203731
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.31803	-.843101	-1.29731	.7765977	5.643994	5.189645	-3.39419
SDEV	1.00796	2.663188	1.40292	3.614083	2.091130	8.354516	6.06483
%RSD	76.47484	315.8801	108.1406	465.3739	37.05054	160.9843	178.6830
#1	-.504423	-2.19272	-1.90469	4.318073	7.118133	2.645042	-9.43819
#2	-1.00406	-2.56130	.3069565	.9176810	6.563128	-1.59669	2.691261
#3	-2.44561	2.224712	-2.29421	-2.90596	3.250720	14.52059	-3.43563
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.861669	-3.05538	1.299399	2.931725	.6889756	2567.044
SDEV	4.833945	2.31389	.757194	2.149189	.4873133	48.357
%RSD	168.9205	75.73170	58.27260	73.30802	70.73012	1.883780
#1	7.570888	-.521688	2.173689	.9131069	1.001952	2622.800
#2	-2.08802	-3.58780	.8548686	5.191194	.9374677	2536.533
#3	3.102143	-5.05667	.8696393	2.690873	.1275077	2541.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-11 OPERATOR:
RUN TIME: 03/31/10 00:16:43
COMMENT: SDG:MB8241 CLIENTID:MB8254 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	44.41505	45481.09	1589.264	2.029413	242300.1	62.54967	31.69681
SDEV	.67567	181.21	5.211	.047959	1563.9	.12182	.65946
%RSD	1.521267	.3984267	.3279064	2.363206	.6454380	.1947559	2.080516
#1	44.06874	45271.86	1583.322	2.005136	240664.8	62.40911	31.50168
#2	43.98274	45586.78	1593.058	2.084657	242454.5	62.61531	31.15694
#3	45.19367	45584.64	1591.412	1.998447	243781.1	62.62459	32.43182
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	697.8646	2040.200	122420.2	7484.073	95476.26	1042.108	48195.62
SDEV	3.6691	12.671	599.7	23.057	511.92	5.064	118.26
%RSD	.5257562	.6210728	.4898567	.3080828	.5361733	.4859348	.2453773
#1	693.7032	2025.624	121727.8	7462.298	94887.98	1036.338	48075.09
#2	699.2570	2046.384	122771.3	7508.228	95720.26	1044.169	48200.31
#3	700.6337	2048.591	122761.6	7481.693	95820.52	1045.816	48311.47
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	356.8875	4.671025	290.3297	3614.928	2989.475	1.359809	17.62273
SDEV	2.6403	2.051220	1.1254	16.561	10.075	1.527791	.91418
%RSD	.7398110	43.91370	.3876442	.4581162	.3370085	112.3533	5.187485
#1	353.8576	6.912954	289.0841	3596.196	2977.843	.5499996	17.68894
#2	358.6959	4.211739	290.6317	3620.967	2995.152	3.122028	16.67725
#3	358.1089	2.888382	291.2734	3627.622	2995.431	.4073999	18.50200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	85.01814	3018.839	2974.808	18.07371	17.39267	20.21946	-8.06083
SDEV	1.92577	5.873	12.417	1.81007	.52945	6.75329	5.65429
%RSD	2.265125	.1945576	.4174124	10.01496	3.044122	33.39996	70.14532
#1	83.19048	3012.553	2960.507	17.73652	17.66026	23.03731	-10.6818
#2	84.83498	3019.777	2982.850	16.45595	16.78283	12.51357	-1.57165
#3	87.02893	3024.187	2981.067	20.02867	17.73491	25.10750	-11.9291
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	338.1807	4.359250	23.41045	2136.308	500.5365	2459.644
SDEV	2.9583	1.514999	.85756	16.443	2.8704	6.176
%RSD	.8747735	34.75366	3.663156	.7696907	.5734565	.2510816
#1	341.0602	4.401701	23.07297	2119.209	497.3638	2452.800
#2	338.3323	5.852576	24.38541	2137.710	501.2923	2461.333
#3	335.1494	2.823471	22.77297	2152.005	502.9533	2464.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-12 OPERATOR:
RUN TIME: 03/31/10 00:23:43
COMMENT: SDG:MB8241 CLIENTID:MB8255 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	62.32464	53616.48	1957.202	2.346910	73526.19	99.15277	47.60697
SDEV	.59593	749.93	27.206	.089874	1015.24	1.48711	.68499
%RSD	.9561630	1.398691	1.390035	3.829475	1.380780	1.499813	1.438837
#1	61.68583	53095.79	1939.226	2.278151	72569.63	97.88747	47.35855
#2	62.86556	54476.04	1988.502	2.448606	74591.37	100.7908	48.38151
#3	62.42252	53277.61	1943.880	2.313972	73417.56	98.78007	47.08086
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1245.152	2917.132	146250.3	12031.75	51942.78	1064.805	46694.18
SDEV	18.270	12.123	2109.5	149.65	742.76	14.275	618.81
%RSD	1.467311	.4155715	1.442405	1.243826	1.429957	1.340597	1.325246
#1	1230.245	2908.784	144591.6	11946.22	51347.85	1053.837	46214.05
#2	1265.534	2931.037	148624.5	12204.56	52775.25	1080.945	47392.54
#3	1239.677	2911.575	145534.9	11944.49	51705.24	1059.634	46475.95
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	603.9150	11.44080	257.5599	5889.617	3852.038	.7469859	9.941579
SDEV	8.4579	1.36041	3.6226	93.175	46.023	1.156774	.626647
%RSD	1.400506	11.89083	1.406493	1.582014	1.194764	154.8589	6.303295
#1	597.4518	11.36319	254.7123	5814.641	3810.165	1.977853	10.39339
#2	613.4874	10.12085	261.6373	5993.929	3901.313	.5808293	9.226198
#3	600.8057	12.83834	256.3301	5860.281	3844.635	-.317725	10.20514
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	96.13332	3894.762	3830.702	7.145632	11.33258	21.14637	-9.44229
SDEV	2.12189	52.075	43.888	3.691891	1.03625	3.58365	2.14582
%RSD	2.207237	1.337062	1.145686	51.66640	9.143975	16.94686	22.72557
#1	94.32370	3856.034	3787.259	8.350393	11.40851	20.57970	-7.31398
#2	95.60761	3953.963	3875.021	3.001857	12.32877	24.97959	-11.6052
#3	98.46864	3874.290	3829.824	10.08465	10.26045	17.87981	-9.40771
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	288.0310	13.29083	39.83209	2083.142	124.6999	2490.066
SDEV	2.3992	1.01154	.52365	35.464	2.0859	23.442
%RSD	.8329562	7.610825	1.314655	1.702444	1.672745	.9414204
#1	288.8587	13.77793	39.39978	2052.357	122.5823	2503.333
#2	285.3276	12.12789	40.41437	2121.921	126.7527	2463.000
#3	289.9068	13.96666	39.68212	2075.146	124.7648	2503.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-13 OPERATOR:
RUN TIME: 03/31/10 00:30:44
COMMENT: SDG:MB8241 CLIENTID:MB8256 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	32.39763	44319.98	2087.896	1.772521	56736.34	13.06555	43.93852
SDEV	.57832	154.74	9.814	.119101	422.26	.04249	.52516
%RSD	1.785067	.3491399	.4700631	6.719308	.7442492	.3251874	1.195218
#1	32.49697	44494.11	2098.311	1.904449	57222.42	13.05060	44.02060
#2	31.77607	44267.61	2086.555	1.740193	56460.15	13.03256	43.37715
#3	32.91984	44198.22	2078.821	1.672921	56526.46	13.11350	44.41781
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	279.4629	4703.035	135447.1	9970.803	28667.79	774.8223	39759.98
SDEV	1.3589	36.919	709.9	47.355	138.59	2.4422	199.08
%RSD	.4862633	.7850101	.5241036	.4749410	.4834442	.3151926	.5006981
#1	280.8504	4662.297	136264.1	10024.34	28827.63	777.5926	39694.66
#2	278.1345	4712.522	135096.0	9953.674	28581.07	772.9806	39601.77
#3	279.4036	4734.284	134981.2	9934.395	28594.66	773.8938	39983.51
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	182.9615	11.47960	148.7632	5904.782	5445.568	21.02995	17.61169
SDEV	.9034	5.51844	1.0173	32.559	24.638	1.77682	.33529
%RSD	.4937412	48.07169	.6838214	.5513983	.4524410	8.449020	1.903778
#1	183.9722	8.612540	149.9335	5942.296	5473.420	19.02227	17.34494
#2	182.2328	17.84143	148.0907	5888.167	5426.619	22.39987	17.50206
#3	182.6793	7.984831	148.2654	5883.883	5436.665	21.66772	17.98807
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	229.8364	5490.489	5423.136	19.51092	16.65871	41.18608	10.96216
SDEV	.3675	24.680	25.745	1.67311	.74873	5.84667	2.08982
%RSD	.1598953	.4495005	.4747189	8.575228	4.494505	14.19574	19.06391
#1	230.2428	5514.628	5452.841	17.65287	17.18632	35.44698	10.81734
#2	229.7390	5465.302	5407.301	20.89823	15.80177	40.97657	13.12063
#3	229.5274	5491.537	5409.265	19.98165	16.98804	47.13469	8.948525
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	411.0417	45.98630	35.41848	1825.044	81.29887	2513.289
SDEV	2.5612	5.68818	.36080	8.049	1.26762	22.494
%RSD	.6231106	12.36930	1.018677	.4410100	1.559215	.8950177
#1	413.9854	52.34023	35.22591	1833.495	82.58853	2488.000
#2	409.8175	41.36847	35.19483	1817.470	81.25359	2520.800
#3	409.3224	44.25020	35.83471	1824.167	80.05450	2531.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-14 OPERATOR:
RUN TIME: 03/31/10 00:37:44
COMMENT: SDG:MB8241 CLIENTID:MB8258 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1392802	81643.80	361.3506	3.837962	13256.81	-2.27552	60.20263
SDEV	.2083403	470.73	1.9319	.029199	151.97	.13107	.26682
%RSD	149.5836	.5765688	.5346261	.7608061	1.146323	5.759905	.4431996
#1	.3476429	81840.80	362.6036	3.804245	13304.63	-2.15485	60.38553
#2	-.069038	81984.02	362.3225	3.854852	13379.12	-2.25677	60.32590
#3	.1392354	81106.57	359.1258	3.854788	13086.69	-2.41496	59.89646
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	188.6651	109.6576	208451.6	15160.39	33308.11	1397.091	33027.00
SDEV	1.1501	.3710	877.9	52.87	182.21	8.648	333.06
%RSD	.6095949	.3383477	.4211514	.3487586	.5470443	.6189918	1.008435
#1	188.9430	109.9796	208502.1	15187.30	33354.89	1400.202	33215.29
#2	189.6507	109.7414	209303.1	15194.39	33462.36	1403.754	33223.25
#3	187.4015	109.2519	207549.5	15099.47	33107.07	1387.318	32642.44
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	146.6690	9.256548	193.2727	384.5279	81.52438	-2.58057	4.996869
SDEV	.4611	3.853467	.9642	2.6711	.30217	1.14631	2.194588
%RSD	.3143997	41.62964	.4988821	.6946495	.3706515	44.42081	43.91927
#1	147.0608	6.371599	193.2721	385.5227	81.41075	-2.60262	2.704349
#2	146.7854	7.765251	194.2373	386.5588	81.86690	-3.71570	5.207991
#3	146.1609	13.63279	192.3089	381.5021	81.29550	-1.42339	7.078266
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	94.87216	88.37575	78.09509	8.254507	3.365794	29.27448	-18.4889
SDEV	1.16815	1.11163	.78564	3.952735	1.359612	2.40057	1.1105
%RSD	1.231288	1.257847	1.005999	47.88578	40.39497	8.200207	6.006523
#1	95.24397	89.64958	77.28875	3.904158	2.100628	31.01977	-19.3933
#2	93.56336	87.87569	78.85824	9.233870	3.193356	26.53684	-18.8240
#3	95.80915	87.60197	78.13830	11.62549	4.803399	30.26683	-17.2494
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	14.93182	-4.70394	12.28599	1763.884	82.18065	2585.311
SDEV	5.36288	2.90261	.43566	9.919	.70508	16.361
%RSD	35.91579	61.70580	3.546006	.5623302	.8579632	.6328261
#1	15.81185	-6.04954	12.49942	1771.372	82.92097	2575.600
#2	9.183349	-1.37273	12.57379	1767.646	82.10388	2576.133
#3	19.80025	-6.68956	11.78477	1752.634	81.51709	2604.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-15 OPERATOR:
RUN TIME: 03/31/10 00:44:44
COMMENT: SDG:MB8241 CLIENTID:MB8259 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.313644	59577.61	434.5248	3.089420	16395.76	-1.28350	46.68544
SDEV	.886167	174.10	1.3979	.047901	180.31	.06257	.69235
%RSD	282.5393	.2922285	.3217032	1.550484	1.099714	4.874784	1.483011
#1	-1.30004	59518.91	434.7324	3.113834	16294.29	-1.28445	46.07727
#2	.4152692	59773.48	435.8073	3.120195	16603.94	-1.34559	47.43891
#3	-.056163	59440.44	433.0348	3.034231	16289.06	-1.22046	46.54015
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	257.5055	80.44645	126832.4	11154.57	25196.90	801.4384	25666.91
SDEV	.9611	.61181	422.4	39.60	71.77	2.1627	237.12
%RSD	.3732400	.7605215	.3330177	.3550464	.2848270	.2698517	.9238229
#1	256.5061	79.78242	126732.9	11161.04	25152.91	800.0819	25408.45
#2	258.4231	80.98730	127295.7	11190.55	25279.72	803.9325	25717.90
#3	257.5873	80.56963	126468.7	11112.14	25158.07	800.3010	25874.39
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	109.3768	2.468148	249.9815	291.5744	58.24248	4.672689	3.723438
SDEV	.2040	3.507973	.7854	.6911	.57714	3.709853	.687631
%RSD	.1864904	142.1298	.3141855	.2370177	.9909303	79.39437	18.46764
#1	109.4801	1.232039	249.2395	291.1515	58.61446	3.175308	4.477127
#2	109.1418	-.254440	250.8041	292.3719	58.53536	1.945551	3.562929
#3	109.5084	6.426848	249.9010	291.1998	57.57762	8.897210	3.130257
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	150.0130	65.16613	54.78376	2.801258	4.179091	19.48719	-2.72820
SDEV	3.4198	1.14437	1.17947	2.505635	1.919382	2.20353	4.52334
%RSD	2.279681	1.756076	2.152952	89.44679	45.92824	11.30758	165.7991
#1	150.1671	65.97003	54.94019	.8460604	6.285186	17.93000	-4.19573
#2	153.3532	63.85595	55.87722	5.625775	2.528297	18.52312	-6.33556
#3	146.5187	65.67241	53.53389	1.931938	3.723788	22.00846	2.346684
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	9.453843	-7.69046	8.696695	1243.738	82.45928	2558.489
SDEV	1.285273	2.09072	.350431	12.554	1.10833	7.434
%RSD	13.59524	27.18592	4.029478	1.009391	1.344089	.2905563
#1	8.119415	-5.27808	8.799017	1230.535	81.82898	2555.200
#2	9.558561	-8.97693	8.306492	1255.523	83.73902	2553.267
#3	10.68355	-8.81637	8.984577	1245.158	81.80985	2567.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-16 OPERATOR:
RUN TIME: 03/31/10 00:51:44
COMMENT: SDG:MB8241 CLIENTID:MB8260 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8168722	82970.26	380.2663	3.822808	13345.78	-1.76356	59.68521
SDEV	.1727009	528.74	2.6094	.078057	150.46	.18126	.26622
%RSD	21.14173	.6372693	.6862053	2.041873	1.127373	10.27837	.4460448
#1	.8888349	83579.46	383.2781	3.912611	13513.85	-1.95673	59.99092
#2	.9419550	82700.60	378.8375	3.771240	13299.85	-1.73676	59.50436
#3	.6198269	82630.70	378.6834	3.784573	13223.64	-1.59718	59.56037
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	193.6489	112.2912	199627.3	15475.89	33719.18	1478.890	33577.42
SDEV	.8873	.1692	980.5	116.85	147.55	6.783	117.22
%RSD	.4582144	.1506989	.4911421	.7550266	.4375807	.4586270	.3491091
#1	194.6579	112.2598	200759.5	15610.72	33888.15	1486.520	33709.72
#2	193.2984	112.4739	199060.5	15404.15	33653.54	1476.607	33536.06
#3	192.9903	112.1399	199062.0	15412.81	33615.83	1473.544	33486.49
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	149.7824	11.07234	200.0517	416.4463	85.48949	.8339673	4.644152
SDEV	.7849	2.18904	1.0515	1.7780	1.50803	2.363964	1.375788
%RSD	.5239953	19.77033	.5256103	.4269424	1.763990	283.4600	29.62410
#1	150.6462	12.70454	201.2353	418.4969	84.90292	3.246341	5.286688
#2	149.1130	8.584763	199.6944	415.3326	87.20266	-1.47841	3.064649
#3	149.5881	11.92771	199.2254	415.5096	84.36287	.7339737	5.581118
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	99.45203	90.93345	82.76414	8.617103	2.655926	26.91824	-12.1933
SDEV	2.03416	2.52306	2.29647	3.007640	1.574529	4.77750	2.9910
%RSD	2.045364	2.774626	2.774720	34.90315	59.28363	17.74820	24.53007
#1	98.45081	88.03206	83.33320	11.94303	1.958748	27.44568	-8.83995
#2	101.7927	92.15543	84.72257	6.088358	1.550348	21.89890	-13.1543
#3	98.11255	92.61285	80.23663	7.819926	4.458681	31.41014	-14.5858
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	10.83940	-6.03456	13.60271	1751.773	82.39475	2568.311
SDEV	.36509	2.36816	.84738	7.204	1.15008	15.295
%RSD	3.368176	39.24327	6.229458	.4112413	1.395812	.5955305
#1	11.13553	-7.49778	12.87744	1759.191	83.71406	2550.666
#2	10.43148	-3.30235	13.39655	1751.323	81.60377	2576.467
#3	10.95117	-7.30356	14.53415	1744.804	81.86642	2577.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003179-18 OPERATOR:
RUN TIME: 03/31/10 00:58:44
COMMENT: SDG:MB8241 CLIENTID:MB8261 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.591115	23321.30	94.63723	1.192861	973.8890	-.959451	17.76022
SDEV	.200567	217.57	.80745	.067808	8.3289	.107878	.27510
%RSD	33.93018	.9329238	.8532097	5.684466	.8552211	11.24370	1.548949
#1	-.821808	23180.78	94.18607	1.159367	971.3149	-.840707	17.90478
#2	-.493448	23571.92	95.56943	1.270899	983.2011	-1.05142	17.93290
#3	-.458090	23211.21	94.15617	1.148318	967.1511	-.986228	17.44298
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	84.18404	42.40641	41701.97	5007.157	8661.761	343.1311	2118.823
SDEV	.64387	.03429	409.72	42.427	87.568	3.0655	66.981
%RSD	.7648349	.0808607	.9825057	.8473226	1.010975	.8934043	3.161233
#1	83.68179	42.38617	41377.40	4989.957	8590.082	340.6602	2193.729
#2	84.90990	42.38706	42162.36	5055.483	8759.364	346.5616	2064.687
#3	83.96042	42.44600	41566.16	4976.031	8635.836	342.1714	2098.054
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.66544	-4.19664	139.7789	134.3337	30.36673	1.096863	2.170448
SDEV	.34909	.74134	1.3704	1.0158	1.57243	1.649185	1.792822
%RSD	.7323697	17.66518	.9803863	.7561511	5.178145	150.3547	82.60146
#1	47.82009	-3.51492	138.6938	133.6264	31.99832	2.936105	1.127548
#2	47.91049	-4.08915	141.3188	135.4977	28.86101	.6046785	1.143196
#3	47.26574	-4.98587	139.3239	133.8771	30.24087	-.250195	4.240600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	11.81364	39.10450	25.99850	1.242840	2.628751	-1.35074	2.314022
SDEV	1.22942	3.08362	.82042	2.291753	2.315191	2.43164	3.686302
%RSD	10.40680	7.885587	3.155642	184.3964	88.07191	180.0233	159.3028
#1	12.14348	42.25079	26.87388	-1.40318	2.386221	-4.04428	6.416270
#2	12.84451	36.08763	25.24716	2.533230	.4443722	-.690626	1.246511
#3	10.45295	38.97506	25.87446	2.598470	5.055660	.6826940	-.720715
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	9.595534	-5.09607	.9293634	657.8365	21.19581	2526.155
SDEV	2.938082	2.19912	.5735928	4.2511	.23401	20.094
%RSD	30.61926	43.15319	61.71889	.6462223	1.104024	.7954323
#1	8.281486	-2.75728	1.299603	653.5034	21.31997	2532.200
#2	7.543817	-7.12201	1.219849	662.0005	21.34158	2503.733
#3	12.96130	-5.40893	.2686380	658.0055	20.92589	2542.533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032633-BLK1 OPERATOR:
RUN TIME: 03/31/10 01:05:44
COMMENT: SDG:MB8263 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.013843	-20.0154	.2713288	-.482942	177.5758	-.589614	-.514620
SDEV	.463428	8.7183	.0525185	.024242	37.5309	.191687	.328439
%RSD	3347.688	43.55790	19.35602	5.019660	21.13514	32.51058	63.82169
#1	-.548782	-29.9343	.2106929	-.502755	220.7864	-.803076	-.789777
#2	.2415354	-13.5658	.3008374	-.490161	153.1059	-.533571	-.603069
#3	.2657169	-16.5462	.3024562	-.455911	158.8353	-.432195	-.151013
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	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.217740	.7273641	38.34625	94.03321	56.65366	.1531239	1112.456
SDEV	.157544	.0451718	7.30702	6.54409	3.88406	.0558380	59.987
%RSD	12.93744	6.210349	19.05537	6.959339	6.855793	36.46593	5.392301
#1	1.169069	.6756561	31.10178	86.80321	52.16874	.1100580	1045.801
#2	1.090275	.7472844	38.22272	95.74545	58.90168	.1331011	1129.466
#3	1.393877	.7591519	45.71426	99.55096	58.89056	.2162126	1162.101
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.547967	-3.85525	-.046697	2.078785	1.071908	-.793178	.5954261
SDEV	.559514	2.00389	.128055	.227039	.965938	.508191	1.462199
%RSD	102.1072	51.97817	274.2279	10.92170	90.11387	64.07015	245.5718
#1	-.838409	-2.22498	-.156979	1.820571	-.013783	-.534306	-.986037
#2	.0970423	-3.24834	.0937474	2.247142	1.836095	-1.37868	1.898267
#3	-.902535	-6.09244	-.076859	2.168642	1.393414	-.466548	.8740484
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-3.02583	10.01701	-3.39912	-2.94087	2.356148	-8.13586	2.867881
SDEV	1.23060	1.11001	.98047	3.18697	3.387376	3.21490	.884715
%RSD	40.66979	11.08129	28.84485	108.3680	143.7676	39.51517	30.84908
#1	-3.17262	9.024966	-4.53106	-1.93419	-.517345	-5.74409	2.062006
#2	-1.72842	11.21590	-2.85223	-6.50962	6.091066	-11.7904	3.814550
#3	-4.17645	9.810170	-2.81408	-.378816	1.494722	-6.87306	2.727088
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.36249	-2.69202	.4105304	3.580659	-.717652	2540.600
SDEV	.05889	3.06554	.7341291	4.399293	.104328	48.728
%RSD	.2633559	113.8747	178.8245	122.8627	14.53745	1.917988
#1	22.31378	-3.69605	-.302079	-1.19192	-.773498	2596.467
#2	22.42794	-5.12964	1.164436	4.460086	-.597288	2506.867
#3	22.34575	.7496243	.3692346	7.473813	-.782170	2518.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032633-BS1 OPERATOR:
RUN TIME: 03/31/10 01:12:44
COMMENT: SDG:MB8263 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	54.64713	903.4630	14.81001	45.48015	463944.7	103.8309	367.7606
SDEV	.26611	28.2215	.26100	.90665	8980.2	1.9467	6.2810
%RSD	.4869605	3.123704	1.762314	1.993506	1.935623	1.874876	1.707907
#1	54.55016	882.6219	14.59475	44.93803	458482.5	102.5738	363.8327
#2	54.44309	892.1882	14.73496	44.97558	459042.4	102.8456	364.4445
#3	54.94812	935.5790	15.10031	46.52683	474309.1	106.0733	375.0047
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	91.00000	1750.000	22.00000	68.00000	582000.0	140.0000	506.0000
LOW	27.00000	547.0000	10.00000	30.00000	303000.0	77.00000	242.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	268.6585	17489.39	63480.25	153.2367	285849.8	577.1281	1054.371
SDEV	5.7133	88.30	1274.21	4.2277	5522.0	10.9621	129.536
%RSD	2.126606	.5049010	2.007249	2.758934	1.931774	1.899425	12.28560
#1	264.8843	17412.82	62626.94	158.0746	282147.7	570.4743	1190.114
#2	265.8597	17469.35	62868.87	151.3828	283204.9	571.1296	1040.903
#3	275.2316	17585.99	64944.93	150.2526	292196.7	589.7804	932.0947
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	357.0000	22300.00	86600.00	853.0000	379000.0	805.0000	2160.000
LOW	185.0000	13200.00	42800.00	.0000000	205000.0	416.0000	.0000000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	156.9692	101.4809	175.6592	439.5698	577.9074	96.34971	595.7371
SDEV	3.8091	4.7341	3.9310	8.6118	8.6671	3.67618	9.4180
%RSD	2.426650	4.664969	2.237881	1.959140	1.499730	3.815451	1.580891
#1	154.0025	100.3187	173.4152	433.1250	572.2041	98.09353	590.4275
#2	155.6404	97.43617	173.3642	436.2339	573.6371	92.12614	590.1728
#3	161.2647	106.6878	180.1983	449.3505	587.8810	98.82945	606.6110
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	237.0000	161.0000	237.0000	744.0000	724.0000	159.0000	1040.000
LOW	18.60000	29.00000	116.0000	205.0000	414.0000	41.00000	276.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2423.262	586.9392	573.3914	604.8846	591.1651	98.73120	95.15565
SDEV	39.686	5.4188	10.7181	13.5078	7.8436	3.02620	4.90547
%RSD	1.637715	.9232337	1.869253	2.233123	1.326799	3.065090	5.155203
#1	2395.690	586.3511	565.1344	601.2403	585.0242	96.74334	98.76255
#2	2405.348	581.8384	569.5358	593.5728	588.4703	97.23631	89.56983
#3	2468.747	592.6281	585.5039	619.8407	600.0009	102.2139	97.13457
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	3520.000						
LOW	1540.000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	37.10973	198.4759	124.2788	58.25951	12.11560	2389.266
SDEV	6.87406	2.6497	3.5368	8.10685	.78069	32.234
%RSD	18.52360	1.335008	2.845881	13.91506	6.443652	1.349110
#1	44.25596	198.2970	121.0968	53.68761	11.47598	2408.933
#2	30.54475	195.9203	123.6528	53.47127	11.88530	2406.800
#3	36.52848	201.2105	128.0869	67.61966	12.98554	2352.066
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH						
LOW						

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-17 OPERATOR:
RUN TIME: 03/31/10 01:19:44
COMMENT: SDG:MB8263 CLIENTID:MB8281 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0994930	23163.66	124.5069	.5739540	4098.370	-.511223	35.50055
SDEV	.2110957	665.50	3.6477	.1064965	34.296	.129984	.86401
%RSD	212.1714	2.873033	2.929678	18.55489	.8368186	25.42614	2.433784
#1	.2421912	22428.51	120.5072	.4530473	4102.701	-.361409	34.57428
#2	-.142997	23725.02	127.6501	.6538416	4130.295	-.594047	36.28466
#3	.1992851	23337.46	125.3635	.6149731	4062.115	-.578214	35.64271
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	58.38984	32.29604	44295.98	3181.436	10153.01	327.5225	10811.66
SDEV	1.25967	.14845	1340.23	69.118	290.78	9.0503	93.68
%RSD	2.157341	.4596599	3.025633	2.172540	2.864015	2.763260	.8665158
#1	57.02757	32.46236	42802.73	3104.630	9829.408	317.4406	10725.97
#2	59.51249	32.24884	45394.58	3238.626	10392.38	334.9456	10911.68
#3	58.62947	32.17693	44690.62	3201.053	10237.25	330.1813	10797.34
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	56.00339	-8.17909	61.91653	130.1897	27.68924	2.400416	2.470583
SDEV	1.45979	4.67570	1.69362	3.3359	1.66616	1.201018	2.701246
%RSD	2.606612	57.16644	2.735328	2.562339	6.017368	50.03377	109.3364
#1	54.40427	-3.04386	60.06584	126.5321	26.31580	3.621513	1.169533
#2	57.26456	-9.30305	63.38919	133.0648	29.54273	1.220537	.6660755
#3	56.34136	L-12.1904	62.29456	130.9723	27.20920	2.359198	5.576140
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.70948	35.90754	23.58038	.9255979	3.237163	7.267012	-.033989
SDEV	2.86107	2.23937	1.38169	3.093790	2.630786	6.748111	1.568335
%RSD	13.17887	6.236487	5.859502	334.2477	81.26825	92.85950	4614.291
#1	18.98979	33.98652	22.48045	.5411547	1.478603	14.10654	-1.61779
#2	24.69356	38.36706	25.13119	-1.95800	1.971302	.6141891	1.518409
#3	21.44510	35.36904	23.12948	4.193643	6.261586	7.080310	-.002587
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	26.79474	-3.45493	5.369838	749.4620	44.59185	2553.644
SDEV	1.63993	.60542	1.162307	21.8809	1.04179	52.872
%RSD	6.120331	17.52329	21.64511	2.919554	2.336289	2.070438
#1	26.44227	-3.74220	6.237669	725.1061	43.45628	2610.000
#2	28.58224	-3.86324	5.822551	767.4596	45.50343	2505.133
#3	25.35970	-2.75936	4.049295	755.8202	44.81583	2545.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/31/10 01:26:45
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	103.4896	50773.90	997.2750	994.6763	50359.85	1003.592	1007.542
SDEV	.4878	134.60	2.6335	4.2397	233.08	3.825	3.686
%RSD	.4713151	.2650959	.2640706	.4262381	.4628226	.3811573	.3658356
#1	104.0169	50693.38	994.8582	993.0728	50519.36	1002.150	1005.866
#2	103.0546	50699.02	996.8849	991.4723	50092.37	1000.698	1004.992
#3	103.3971	50929.29	1000.082	999.4839	50467.83	1007.929	1011.768
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1018.739	1040.476	25232.97	50555.25	47752.41	978.2958	50798.41
SDEV	3.917	2.946	95.70	69.12	160.18	3.3512	273.19
%RSD	.3844625	.2831627	.3792518	.1367301	.3354339	.3425589	.5377999
#1	1018.010	1041.552	25162.06	50477.68	47670.93	976.9135	50726.66
#2	1015.239	1042.733	25195.02	50577.75	47649.36	975.8569	50568.25
#3	1022.970	1037.143	25341.82	50610.32	47936.95	982.1171	51100.32
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1007.912	1018.818	1004.577	1104.133	1010.642	1029.769	1003.772
SDEV	2.869	7.004	4.339	3.421	5.410	4.553	17.353
%RSD	.2846115	.6874247	.4319626	.3098715	.5352645	.4421134	1.728772
#1	1007.411	1024.099	1002.069	1103.636	1009.433	1027.498	986.1548
#2	1005.327	1010.873	1002.074	1100.987	1005.940	1026.799	1004.314
#3	1010.999	1021.481	1009.587	1107.775	1016.554	1035.011	1020.848
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1014.798	1009.101	1011.406	1001.168	1005.067	1042.204	1023.556
SDEV	5.636	2.506	6.866	25.731	13.170	4.547	4.563
%RSD	.5554264	.2483121	.6788293	2.570123	1.310369	.4362703	.4457670
#1	1008.808	1008.806	1009.740	975.0206	991.7087	1039.637	1021.432
#2	1015.588	1006.756	1005.526	1002.023	1005.453	1039.521	1020.442
#3	1019.997	1011.741	1018.951	1026.462	1018.040	1047.454	1028.793
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1024.191	1028.830	1008.447	1030.788	1023.453	2523.533
SDEV	3.631	1.201	7.375	4.402	4.359	9.765
%RSD	.3544780	.1167515	.7313065	.4270594	.4258917	.3869749
#1	1022.654	1028.361	1004.552	1031.291	1019.682	2528.000
#2	1021.583	1027.934	1003.836	1026.157	1022.452	2530.267
#3	1028.338	1030.195	1016.953	1034.918	1028.225	2512.333
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/31/10 01:33:47
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3452010	-29.5795	-.371279	-.339520	-20.9297	-.054630	-.150119
SDEV	.9427967	6.2840	.064355	.090463	40.6161	.194301	.155268
%RSD	273.1153	21.24446	17.33335	26.64445	194.0599	355.6681	103.4304
#1	.2414710	-26.9269	-.352865	-.282086	2.411433	-.004240	-.077482
#2	-.541441	-25.0568	-.442834	-.292676	2.628498	-.269162	-.328392
#3	1.335573	-36.7549	-.318138	-.443799	-67.8289	.1095120	-.044482
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0447393	.4173200	-3.17038	2.826183	2.070667	-.151083	119.5551
SDEV	.0273674	.3839765	3.14793	4.102599	1.861224	.058056	44.6150
%RSD	61.17080	92.01007	99.29197	145.1639	89.88525	38.42645	37.31751
#1	.0600404	.5087910	-4.71885	7.465316	3.464231	-.102843	169.6705
#2	.0610341	-.004132	-5.24415	-.324136	-.043027	-.215517	84.16142
#3	.0131434	.7473009	.4518648	1.337370	2.790797	-.134889	104.8334
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0620135	-2.37933	-.084983	.0608462	-2.00839	2.304186	3.652549
SDEV	.2946549	1.45358	.328667	.0546419	.76833	3.198312	.621625
%RSD	475.1462	61.09180	386.7443	89.80331	38.25620	138.8044	17.01895
#1	-.271303	-3.93000	.0714572	.0626932	-2.48852	4.340038	4.270253
#2	.1695409	-2.16030	-.462648	.0053042	-1.12223	3.954720	3.660318
#3	.2878029	-1.04770	.1362414	.1145411	-2.41443	-1.38220	3.027075
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.24446	-.463435	-2.78447	.2682895	5.337383	7.132594	-.111156
SDEV	1.12847	2.693748	1.06653	2.075964	.983699	4.176068	2.726491
%RSD	90.67937	581.2573	38.30283	773.7775	18.43035	58.54908	2452.849
#1	-2.16227	.4500560	-3.96038	2.363487	5.217440	10.15800	1.430654
#2	-1.58661	1.654782	-2.51344	-1.78789	6.375554	8.871777	1.495094
#3	.0154853	-3.49514	-1.87961	.2292718	4.419156	2.368009	-3.25922
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.248883	-3.06830	.4581277	.8309151	.4412736	2551.244
SDEV	1.372696	.84893	.8565557	7.930044	.7099287	16.327
%RSD	42.25133	27.66786	186.9688	954.3748	160.8818	.6399579
#1	4.802687	-2.36971	1.425900	.2820242	1.055535	2546.800
#2	2.200753	-2.82206	-.202536	-6.81042	-.335975	2537.600
#3	2.743208	-4.01313	.1510192	9.021145	.6042618	2569.333
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032633-DUP1 OPERATOR:
RUN TIME: 03/31/10 01:40:48
COMMENT: SDG:MB8263 CLIENTID:MB8281D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3524858	25176.94	134.4572	.6710526	4752.309	-.483553	20.05785
SDEV	.4660815	173.42	1.1195	.1051207	87.614	.159483	.31044
%RSD	132.2270	.6887965	.8326181	15.66505	1.843617	32.98141	1.547730
#1	.8525615	25326.47	135.5028	.7308005	4652.724	-.344008	20.41596
#2	.2747127	24986.83	133.2761	.5496745	4786.662	-.449257	19.86491
#3	-.069817	25217.50	134.5926	.7326827	4817.541	-.657393	19.89268
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	64.45830	33.49479	47507.16	3468.994	10837.61	345.7720	11191.56
SDEV	.72163	.43584	372.89	30.195	75.28	1.9548	50.62
%RSD	1.119525	1.301227	.7849224	.8704146	.6945736	.5653343	.4523177
#1	65.27409	33.46709	47808.33	3488.761	10910.04	347.8038	11248.48
#2	64.19739	33.94382	47090.07	3434.238	10759.78	343.9047	11151.57
#3	63.90342	33.07345	47623.07	3483.984	10843.00	345.6075	11174.63
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.69516	-2.57854	68.81844	156.7432	27.39431	-1.47542	2.760998
SDEV	.52982	2.31006	.36483	.9258	.33714	3.27158	3.210202
%RSD	1.110855	89.58793	.5301375	.5906301	1.230695	221.7394	116.2696
#1	47.66602	-4.68530	69.19778	157.6402	27.02270	-2.11544	4.965058
#2	47.18051	-2.94205	68.47010	155.7911	27.47965	-4.37969	-.922114
#3	48.23896	-.108276	68.78741	156.7982	27.68058	2.068880	4.240050
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	16.29905	33.48200	24.34846	3.108433	2.582746	.9930846	-2.71261
SDEV	2.04111	1.55893	1.04020	3.229236	3.617734	6.214561	2.46077
%RSD	12.52290	4.656022	4.272135	103.8863	140.0732	625.7836	90.71573
#1	17.62573	34.47876	23.29362	3.189401	5.846709	-3.07717	-1.64014
#2	13.94868	31.68550	25.37337	-.160526	-1.30709	-2.08995	-5.52761
#3	17.32275	34.28174	24.37839	6.296424	3.208620	8.146370	-.970093
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	23.40900	-1.49667	6.710148	775.5190	52.86052	2531.555
SDEV	1.62748	2.11094	1.359443	6.9122	.35012	24.601
%RSD	6.952353	141.0419	20.25950	.8912982	.6623446	.9717628
#1	23.43118	.3662822	8.048282	782.6665	53.25379	2504.666
#2	21.77055	-3.78944	6.751807	775.0214	52.58273	2552.933
#3	25.02528	-1.06687	5.330354	768.8690	52.74503	2537.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032633-MS1 OPERATOR:
RUN TIME: 03/31/10 01:47:48
COMMENT: SDG:MB8263 CLIENTID:MB8281S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	92.88147	26956.73	4083.990	97.46563	4480.790	97.56987	1000.796
SDEV	.07333	255.71	37.187	1.04766	58.333	1.39636	10.677
%RSD	.0789519	.9485902	.9105590	1.074900	1.301844	1.431143	1.066860
#1	92.93604	26928.27	4079.876	97.17915	4547.714	97.23324	996.7290
#2	92.79811	26716.44	4049.030	96.59102	4453.929	96.37259	992.7506
#3	92.91025	27225.47	4123.062	98.62673	4440.726	99.10377	1012.909
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	462.4583	549.9451	48395.46	3200.741	9901.226	1278.608	10676.61
SDEV	4.6808	1.1181	527.60	33.697	108.931	13.452	113.82
%RSD	1.012159	.2033069	1.090177	1.052773	1.100178	1.052050	1.066029
#1	459.5505	550.7586	48129.45	3191.548	9861.055	1274.584	10639.76
#2	459.9665	548.6702	48053.81	3172.595	9818.084	1267.627	10585.79
#3	467.8578	550.4066	49003.11	3238.080	10024.54	1293.612	10804.29
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1027.827	97.77338	1070.719	1089.522	65.02040	90.44744	115.8986
SDEV	11.314	5.50292	11.368	11.321	1.38205	2.48212	1.8800
%RSD	1.100790	5.628242	1.061763	1.039074	2.125560	2.744267	1.622107
#1	1022.537	92.15364	1066.834	1085.785	64.69010	87.84354	113.7369
#2	1020.128	103.1515	1061.802	1080.542	63.83343	90.71223	116.8070
#3	1040.818	98.01499	1083.520	1102.239	66.53767	92.78655	117.1518
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	94.73753	71.90394	61.57778	114.5139	116.5851	90.77337	90.27991
SDEV	.99696	4.00138	1.33353	4.0192	1.6306	4.48288	2.74054
%RSD	1.052338	5.564893	2.165605	3.509790	1.398608	4.938539	3.035608
#1	93.59283	73.94786	60.06216	110.9509	115.1230	89.15342	87.18478
#2	95.20416	67.29341	62.10006	113.7199	118.3435	87.32564	92.39820
#3	95.41559	74.47054	62.57113	118.8708	116.2888	95.84104	91.25674
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	29.07653	-3.77827	7.633635	651.5526	62.94810	2523.222
SDEV	.74871	1.98172	.587276	8.0113	.97991	18.062
%RSD	2.574951	52.45063	7.693273	1.229565	1.556696	.7158483
#1	28.24739	-1.76804	6.955507	646.9262	62.04195	2526.533
#2	29.70314	-3.83656	7.973717	646.9284	62.81432	2539.400
#3	29.27906	-5.73020	7.971679	660.8032	63.98802	2503.733
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: SDI1003190-17 OPERATOR:
RUN TIME: 03/31/10 01:54:49
COMMENT: SDG:MB8263 CLIENTID:MB8281L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6229724	4793.016	25.02286	-.236002	808.8611	-.145491	7.597371
SDEV	.2133517	18.447	.23365	.030849	73.1944	.081502	.283186
%RSD	34.24738	.3848827	.9337494	13.07139	9.049066	56.01845	3.727427
#1	.6643305	4771.798	24.80106	-.200387	806.3604	-.173627	7.414171
#2	.3919696	4805.257	25.00074	-.254406	883.2737	-.209198	7.454400
#3	.8126171	4801.992	25.26678	-.253211	736.9491	-.053649	7.923540
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	12.38384	6.789168	9204.665	539.7963	2122.952	66.95528	2100.032
SDEV	.82125	.208772	25.226	2.8775	9.346	.29336	47.419
%RSD	6.631617	3.075072	.2740529	.5330733	.4402591	.4381419	2.257997
#1	12.24262	6.785220	9175.595	538.6250	2112.160	66.62799	2060.831
#2	11.64236	6.582398	9220.792	543.0748	2128.245	67.04332	2086.528
#3	13.26654	6.999886	9217.607	537.6892	2128.450	67.19455	2152.738
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	12.29012	-1.23197	12.54276	26.39288	4.954920	.4752584	-1.60942
SDEV	.41141	3.49636	.21515	.30078	.708557	4.398295	1.16790
%RSD	3.347523	283.8023	1.715334	1.139628	14.30006	925.4535	72.56625
#1	12.75261	2.135243	12.62345	26.07206	4.611721	.7825767	-2.94188
#2	11.96485	-.986601	12.29893	26.43810	5.769725	4.711835	-1.12315
#3	12.15290	-4.84456	12.70590	26.66850	4.483314	-4.06864	-.763226
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.663289	9.104181	2.877999	-6.43940	.7972090	6.033170	-2.30427
SDEV	.839855	2.953031	.580276	3.49770	1.370714	3.486581	6.60693
%RSD	18.00994	32.43598	20.16248	54.31718	171.9391	57.79020	286.7256
#1	5.190500	8.747050	2.541752	-8.75506	-.044369	10.05078	-3.84929
#2	5.104590	12.21954	2.544202	-8.14726	2.378889	4.248777	4.938266
#3	3.694777	6.345957	3.548042	-2.41588	.0571070	3.799953	-8.00179
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	8.755087	-4.19239	.7373431	154.7639	9.116329	2561.422
SDEV	1.697914	.46908	.6784188	6.2396	.597790	11.776
%RSD	19.39346	11.18881	92.00856	4.031698	6.557350	.4597328
#1	7.958349	-4.64471	.9321696	159.3489	9.775806	2575.000
#2	7.602064	-3.70818	-.017173	147.6583	8.610041	2555.267
#3	10.70485	-4.22428	1.297033	157.2844	8.963141	2554.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032633-PS1 OPERATOR:
RUN TIME: 03/31/10 02:01:49
COMMENT: SDG:MB8263 CLIENTID:MB8281A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	20.02590	23424.48	125.9052	9.985598	4256.814	9.101096	132.3853
SDEV	.54856	74.53	.4459	.109457	30.476	.133576	.5563
%RSD	2.739273	.3181705	.3541437	1.096153	.7159358	1.467687	.4202296
#1	20.19673	23457.94	126.3021	10.07179	4289.468	9.120033	132.5525
#2	19.41224	23339.09	125.4227	9.862446	4229.127	9.224193	131.7646
#3	20.46872	23476.42	125.9908	10.02255	4251.846	8.959063	132.8389
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	78.34956	83.04314	44737.06	3204.518	10260.71	359.7279	10117.78
SDEV	.75351	.35211	229.92	12.903	50.63	1.4523	73.76
%RSD	.9617295	.4240056	.5139293	.4026649	.4934462	.4037288	.7290549
#1	78.79404	82.75706	44861.02	3212.225	10280.26	360.3510	10066.36
#2	77.47955	83.43638	44471.76	3189.622	10203.22	358.0680	10084.68
#3	78.77508	82.93600	44878.39	3211.708	10298.66	360.7647	10202.30
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	134.3958	43.09092	159.6478	242.2254	47.27330	64.23439	116.3525
SDEV	.8474	4.18391	.6860	1.4317	.56004	1.63724	2.3678
%RSD	.6305289	9.709493	.4296948	.5910405	1.184692	2.548856	2.035010
#1	134.8402	38.44901	159.9403	242.2065	47.00332	66.12489	114.4809
#2	133.4187	44.25233	158.8641	240.8033	46.89938	63.29836	119.0143
#3	134.9286	46.57144	160.1391	243.6665	47.91719	63.27993	115.5623
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.18615	56.67773	42.57270	116.5704	116.2388	70.51733	61.09282
SDEV	1.30394	2.16630	1.14409	.4589	3.6731	3.05004	2.95877
%RSD	3.244740	3.822134	2.687377	.3936981	3.159944	4.325229	4.843074
#1	40.77853	54.19252	43.40865	117.0883	113.1742	70.30411	64.03355
#2	38.69118	58.16661	41.26882	116.4087	120.3104	73.66837	58.11634
#3	41.08872	57.67406	43.04065	116.2142	115.2319	67.57949	61.12856
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-10.0000

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	30.00636	-1.45512	5.306317	753.1863	44.60188	2519.133
SDEV	4.54525	2.57093	.291062	9.0856	.93004	17.609
%RSD	15.14763	176.6818	5.485190	1.206284	2.085212	.6990144
#1	25.93437	-.838288	5.325415	761.0184	45.64916	2500.267
#2	34.91002	-4.27835	5.006176	743.2253	44.28416	2535.133
#3	29.17469	.7512857	5.587359	755.3154	43.87234	2522.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-01 OPERATOR:
RUN TIME: 03/31/10 02:08:50
COMMENT: SDG:MB8263 CLIENTID:MB8263 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.251255	43317.52	178.8988	2.367569	11617.24	-1.14742	33.26532
SDEV	.646572	533.47	2.0516	.102328	111.90	.14442	.75362
%RSD	257.3370	1.231530	1.146797	4.322073	.9631918	12.58628	2.265495
#1	-.779496	43310.51	178.7777	2.278901	11673.87	-1.08220	32.71519
#2	.4697862	42787.59	176.9104	2.344269	11488.34	-1.04711	32.95645
#3	-.444055	43854.45	181.0082	2.479538	11689.49	-1.31294	34.12431
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	127.5543	57.67970	101038.6	9518.044	21243.14	755.4689	26511.51
SDEV	1.3791	.41524	1272.8	94.939	245.75	9.0161	275.37
%RSD	1.081201	.7198989	1.259706	.9974605	1.156862	1.193443	1.038672
#1	126.7520	57.22239	100666.6	9503.653	21205.96	755.0108	26702.19
#2	126.7642	58.03313	99993.26	9431.122	21018.10	746.6906	26195.81
#3	129.1468	57.78359	102455.9	9619.356	21505.37	764.7053	26636.53
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	81.99709	-1.43631	111.2931	215.7659	45.05223	1.335899	4.008988
SDEV	.63085	4.08473	1.3863	2.5995	.61914	4.819236	2.356909
%RSD	.7693552	284.3913	1.245612	1.204761	1.374264	360.7485	58.79062
#1	81.88701	-2.31257	110.6547	215.5209	45.54863	2.286120	4.087389
#2	81.42853	-5.01180	110.3410	213.2976	44.35847	-3.88767	6.325718
#3	82.67574	3.015447	112.8836	218.4792	45.24959	5.609246	1.613857
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	60.48356	56.11365	39.52374	1.082047	5.465501	13.21219	-4.59811
SDEV	1.23541	.54109	.69133	2.148411	2.997690	2.44576	7.23863
%RSD	2.042555	.9642751	1.749162	198.5506	54.84750	18.51140	157.4262
#1	59.28835	56.69460	39.97791	-.832251	6.538754	16.02275	-4.57666
#2	61.75559	55.62405	38.72811	3.405676	7.778830	12.04630	-11.8474
#3	60.40675	56.02229	39.86518	.6727153	2.078919	11.56752	2.629774
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	21.24605	-4.91743	6.325360	1144.788	143.9342	2548.778
SDEV	2.72754	4.05099	.903878	12.228	1.6929	21.540
%RSD	12.83785	82.38015	14.28974	1.068132	1.176139	.8450942
#1	18.17761	-8.58751	5.942332	1133.611	142.7571	2546.733
#2	22.16549	-5.59404	5.676063	1142.906	143.1712	2571.267
#3	23.39505	-.570741	7.357684	1157.848	145.8742	2528.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-02 OPERATOR:
RUN TIME: 03/31/10 02:15:50
COMMENT: SDG:MB8263 CLIENTID:MB8264 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1144284	31701.55	399.9393	2.035611	6789.042	-.447365	17.11050
SDEV	.2148274	145.75	2.2563	.054861	34.406	.106233	.28514
%RSD	187.7396	.4597491	.5641494	2.695072	.5067838	23.74635	1.666440
#1	-.032220	31858.82	402.4580	2.095638	6828.484	-.399109	17.04653
#2	.0144856	31674.80	399.2569	2.023127	6773.445	-.569160	16.86278
#3	.3610198	31571.03	398.1030	1.988067	6765.197	-.373826	17.42219
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	84.03369	45.31297	28467.97	3664.653	10738.92	229.6020	9462.491
SDEV	.66416	.29317	142.09	22.172	48.35	1.2524	34.428
%RSD	.7903444	.6469809	.4991158	.6050122	.4502234	.5454705	.3638348
#1	84.67796	45.43238	28630.84	3689.115	10793.23	231.0481	9493.678
#2	83.35129	44.97895	28403.62	3658.963	10722.95	228.8902	9425.548
#3	84.07182	45.52759	28369.43	3645.881	10700.57	228.8676	9468.248
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	63.18591	-2.71882	84.15283	130.4845	30.50287	1.135255	-.654183
SDEV	.28320	5.27523	.45963	.6639	.10984	.560223	1.816500
%RSD	.4481979	194.0265	.5461820	.5087761	.3601039	49.34774	277.6745
#1	62.90362	-4.30718	84.63711	131.1406	30.60089	.5123669	1.260469
#2	63.18410	3.168088	83.72265	130.4997	30.38415	1.597885	-2.35330
#3	63.47001	-7.01736	84.09873	129.8131	30.52358	1.295512	-.869719
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	15.89267	36.82998	27.33854	-1.07578	-.448415	.8062559	1.294794
SDEV	1.37991	1.57710	.68911	1.49066	2.061750	1.997932	1.469387
%RSD	8.682665	4.282105	2.520660	138.5658	459.7859	247.8038	113.4842
#1	17.46181	38.62869	26.58746	.0867480	1.841709	2.013108	-.241620
#2	15.34786	36.17706	27.48654	-2.75634	-2.15678	1.905582	1.439564
#3	14.86834	35.68420	27.94163	-.557737	-1.03017	-1.49992	2.686436
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.84461	-3.69474	10.82361	959.5924	61.19299	2575.155
SDEV	3.33721	2.04138	.21214	6.6980	.80791	12.809
%RSD	14.60829	55.25104	1.959977	.6980047	1.320269	.4974072
#1	19.01526	-5.91031	10.58727	964.8832	61.45531	2560.467
#2	24.38642	-3.28385	10.88603	952.0615	60.28652	2581.000
#3	25.13214	-1.89005	10.99754	961.8326	61.83715	2584.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-03 OPERATOR:
RUN TIME: 03/31/10 02:22:50
COMMENT: SDG:MB8263 CLIENTID:MB8265 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3642748	26013.10	284.5312	1.157151	6198.218	-.185496	19.19138
SDEV	.7147654	225.54	2.3462	.039665	123.634	.104805	.18581
%RSD	196.2160	.8670110	.8245682	3.427798	1.994667	56.50002	.9681933
#1	-.345672	26088.85	285.3998	1.199800	6266.359	-.267449	19.15982
#2	1.083763	25759.44	281.8746	1.150286	6055.506	-.221635	19.02338
#3	.3547332	26191.01	286.3192	1.121367	6272.789	-.067403	19.39095
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	69.43693	36.24852	29043.90	2968.634	9160.353	236.8779	5450.973
SDEV	.89740	.53624	208.90	21.489	80.610	2.0146	120.203
%RSD	1.292390	1.479353	.7192523	.7238581	.8799826	.8504965	2.205170
#1	68.61722	35.63244	29101.60	2978.656	9171.579	237.0887	5326.838
#2	69.29780	36.50272	28812.21	2943.965	9074.718	234.7661	5459.265
#3	70.39576	36.61039	29217.88	2983.281	9234.760	238.7788	5566.815
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	50.11578	-5.82328	89.96628	127.9181	23.62225	.5030227	2.368333
SDEV	.93172	.44819	.51852	1.3111	1.09303	2.111274	.332875
%RSD	1.859139	7.696474	.5763533	1.024941	4.627128	419.7175	14.05524
#1	49.17829	-6.20323	90.01413	127.9562	22.36518	-.894898	2.675744
#2	50.12743	-5.32900	89.42548	126.5884	24.15306	-.527711	2.014804
#3	51.04163	-5.93760	90.45921	129.2097	24.34851	2.931677	2.414452
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	24.14281	31.48869	19.68935	2.081147	2.506966	.5620549	.4688055
SDEV	1.08280	1.36945	.95551	1.755068	.780690	9.001132	3.567188
%RSD	4.484970	4.349017	4.852926	84.33176	31.14082	1601.468	760.9100
#1	25.15044	29.91037	18.59264	3.912569	2.053500	-9.81783	3.555122
#2	24.28005	32.19379	20.13319	1.916893	2.058974	5.289622	-3.43673
#3	22.99793	32.36191	20.34221	.4139804	3.408423	6.214378	1.288023
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.58506	-2.21427	5.228099	939.4514	42.88370	2557.778
SDEV	1.13967	3.42315	.417868	8.2985	.69148	15.782
%RSD	5.046120	154.5946	7.992727	.8833401	1.612447	.6170363
#1	22.46423	-6.09807	5.224234	932.2020	42.36548	2550.066
#2	21.51062	-.908807	4.812178	937.6491	42.61676	2575.933
#3	23.78033	.3640543	5.647886	948.5029	43.66886	2547.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/31/10 02:29:50
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.80016	-49.7042	-.488709	4.490108	30.43180	5.024414	51.01181
SDEV	.50461	9.8782	.062583	.075213	41.97811	.078620	.41540
%RSD	4.672286	19.87399	12.80586	1.675090	137.9416	1.564751	.8143259
#1	10.94002	-59.5961	-.494616	4.418119	78.74682	5.100878	51.22330
#2	11.22010	-49.6766	-.423381	4.484029	9.651483	4.943803	51.27892
#3	10.24037	-39.8398	-.548129	4.568177	2.897087	5.028561	50.53323
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.891729	26.68778	-4.81363	-1.91862	-9.78184	14.62868	90.99638
SDEV	.161307	.51139	4.38336	1.85105	.39110	.09906	84.38414
%RSD	1.630721	1.916212	91.06152	96.47825	3.998226	.6771584	92.73350
#1	9.914726	27.12898	-5.06235	-2.87105	-10.0376	14.65475	174.1010
#2	10.04030	26.80708	-.311198	.2147151	-9.33163	14.71210	93.49979
#3	9.720159	26.12728	-9.06733	-3.09954	-9.97626	14.51920	5.388398
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.95466	26.10773	50.55163	55.21717	9.493664	38.55942	61.90320
SDEV	.65879	4.87406	.16663	.33925	.724375	4.21649	1.97131
%RSD	1.608572	18.66903	.3296264	.6143915	7.630085	10.93504	3.184502
#1	41.23789	28.35895	50.56195	55.19741	8.661046	33.92677	64.17131
#2	40.20163	20.51496	50.71286	55.56587	9.979108	39.57856	60.60236
#3	41.42447	29.44927	50.38007	54.88823	9.840836	42.17294	60.93593
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.837087	10.45601	9.007316	57.43417	64.12965	51.49961	32.09432
SDEV	2.484609	1.46445	.440782	3.63885	1.47017	5.60543	4.66180
%RSD	28.11570	14.00581	4.893602	6.335686	2.292495	10.88441	14.52530
#1	Q6.118419	8.892013	8.539850	61.42357	65.53841	48.31007	26.74120
#2	10.99009	11.79482	9.066704	56.58173	62.60494	48.21677	35.26121
#3	9.402749	10.68119	9.415393	54.29722	64.24559	57.97197	34.28054
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	54.01273	48.92096	49.47013	50.50851	50.80013	2573.044
SDEV	3.39911	.56883	1.30381	1.56017	.27674	4.760
%RSD	6.293155	1.162751	2.635542	3.088932	.5447661	.1849811
#1	57.11723	48.41598	47.96471	48.86680	51.09992	2578.066
#2	50.38070	49.53720	50.20909	51.97180	50.74603	2568.600
#3	54.54026	48.80970	50.23659	50.68692	50.55443	2572.467
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/31/10 02:36:50
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0273713	264522.6	2.619860	.6046102	261253.0	-1.58177	5.200292
SDEV	.1086146	1690.9	.009481	.0672153	2330.8	.26303	.185118
%RSD	396.8187	.6392187	.3618843	11.11712	.8921651	16.62865	3.559765
#1	-.092359	262847.2	2.620997	.6537225	258673.7	-1.59716	5.284427
#2	.0549008	266228.6	2.609862	.6321009	263208.3	-1.83677	5.328399
#3	.1195723	264492.1	2.628721	.5280071	261877.0	-1.31139	4.988049
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	243900.0	2.000000	.0000000	234100.0	.0000000	3.000000
RANGE	20.00000	49997.06	400.0000	10.00000	47990.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.41431	25.57789	104167.6	1.480269	270985.3	18.71026	956.8288
SDEV	.34726	.12536	725.1	.785440	2038.4	.08995	36.5149
%RSD	.7323886	.4901285	.6960899	53.06063	.7522153	.4807297	3.816246
#1	47.20293	25.70519	103489.7	2.235652	268862.2	18.60873	932.7190
#2	47.81508	25.57393	104932.1	1.537278	272926.8	18.77997	998.8400
#3	47.22490	25.45456	104080.9	.6678779	271167.0	18.74208	938.9274
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	36.00000	15.00000	94900.00	.0000000	248800.0	19.00000	.0000000
RANGE	20.00000	50.00000	19454.00	2000.000	51003.00	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.18533	7.045604	.9328387	29.53234	10.71249	-8.29814	2.638657
SDEV	.79907	9.080031	.3332448	.05651	1.01535	5.25017	1.455643
%RSD	3.601812	128.8751	35.72374	.1913578	9.478187	63.26924	55.16605
#1	22.14801	17.36327	1.244820	29.53557	9.761933	-4.17477	1.729376
#2	23.00242	3.501187	.9719201	29.58717	11.78213	-14.2085	4.317553
#3	21.40558	.2723579	.5817764	29.47428	10.59341	-6.51110	1.869042
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	1.000000	39.00000	5.000000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4565299	7.505096	12.30759	1.371428	3.266366	10.34783	-17.6121
SDEV	2.747620	4.144486	1.23576	4.488953	2.281838	4.59971	6.6640
%RSD	601.8489	55.22228	10.04064	327.3195	69.85861	44.45093	37.83744
#1	-2.53949	2.719681	13.27162	3.911422	.6350605	9.608938	-11.0612
#2	1.050496	9.857696	12.73666	4.014490	4.463872	6.162296	-24.3837
#3	2.858588	9.937912	10.91448	-3.81163	4.700165	15.27225	-17.3914
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-3.72471	.6936150	-4.71490	-4.52210	-4.35522	2454.955
SDEV	2.76493	1.983825	.54640	2.91503	.29319	14.329
%RSD	74.23216	286.0125	11.58872	64.46189	6.731991	.5836614
#1	-4.62008	-.017940	-5.29814	-1.56091	-4.32618	2468.733
#2	-5.93101	-.836298	-4.63169	-7.38867	-4.66185	2440.133
#3	-.623051	2.935084	-4.21489	-4.61674	-4.07763	2456.000
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/31/10 02:43:50
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	213.3391	251947.4	510.9214	487.4656	250457.0	988.2894	500.8691
SDEV	2.2246	4061.4	8.2446	8.9799	4643.0	16.2122	8.1125
%RSD	1.042765	1.612009	1.613668	1.842153	1.853825	1.640427	1.619677
#1	211.5587	249431.1	506.2199	481.4371	247345.3	978.1188	495.8007
#2	215.8329	256632.9	520.4412	497.7860	255793.9	1006.986	510.2257
#3	212.6256	249778.3	506.1032	483.1736	248231.9	979.7639	496.5808
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	210.0000	248400.0	475.0000	482.0000	234300.0	916.0000	455.0000
RANGE	43.00000	50922.00	400.0000	98.00001	48031.00	187.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	544.7722	550.5960	98511.49	-.402734	257708.6	514.4221	1016.665
SDEV	9.3333	3.9364	1619.35	1.445356	4229.8	8.8111	56.505
%RSD	1.713245	.7149422	1.643821	358.8861	1.641298	1.712823	5.557894
#1	538.4952	547.7042	97556.60	-.605534	255015.9	508.7054	957.5907
#2	555.4975	555.0789	100381.2	-1.73598	262583.8	524.5692	1070.192
#3	540.3239	549.0047	97596.66	1.133312	255526.0	509.9916	1022.213
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	506.0000	537.0000	95100.00	.0000000	254100.0	483.0000	.0000000
RANGE	103.0000	110.0000	19495.00	2000.000	52090.00	99.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1032.122	105.1851	504.8363	1045.897	59.70459	43.51477	631.1169
SDEV	15.957	7.7628	8.7743	18.472	2.63640	2.84806	7.0698
%RSD	1.546017	7.380107	1.738046	1.766156	4.415745	6.545041	1.120199
#1	1021.261	110.7636	498.7934	1034.120	59.34292	40.80441	630.2619
#2	1050.442	108.4720	514.9005	1067.187	62.50315	43.25693	638.5753
#3	1024.662	96.31956	500.8150	1036.384	57.26769	46.48299	624.5135
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	930.0000	96.00000	481.0000	975.0000	51.00000	51.00000	585.0000
RANGE	190.0000	50.00000	99.99999	199.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	102.8640	47.71469	65.68475	636.6674	628.3408	61.03646	34.76209
SDEV	3.9556	2.80070	4.91838	9.6640	7.6665	9.79888	2.18547
%RSD	3.845429	5.869689	7.487864	1.517911	1.220120	16.05415	6.286947
#1	98.98827	50.51888	63.74215	628.4659	631.1536	55.55043	33.43750
#2	106.8948	44.91748	71.27776	647.3214	634.2037	55.20943	37.28460
#3	102.7089	47.70770	62.03433	634.2147	619.6652	72.34952	33.56417
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	97.00000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1031.356	1054.420	998.9375	1050.881	1034.532	2443.400
SDEV	20.832	16.181	19.5518	24.396	14.300	26.856
%RSD	2.019890	1.534608	1.957264	2.321518	1.382266	1.099120
#1	1021.787	1043.643	982.8806	1032.191	1026.422	2458.200
#2	1055.254	1073.027	1020.710	1078.479	1051.044	2412.400
#3	1017.028	1046.591	993.2216	1041.972	1026.131	2459.600
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	205.0000	205.0000	205.0000	205.0000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/31/10 02:50:51
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	105.5701	50147.38	987.6038	985.0533	49912.98	989.9866	991.8953
SDEV	.7923	1107.45	21.7418	22.1397	1176.99	21.4752	21.3367
%RSD	.7505116	2.208387	2.201470	2.247563	2.358087	2.169243	2.151102
#1	106.4052	51019.42	1004.084	1002.770	50818.29	1007.555	1009.294
#2	105.4762	50521.35	995.7647	992.1556	50338.18	996.3584	998.3031
#3	104.8289	48901.36	962.9623	960.2340	48582.48	966.0465	968.0889
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1002.232	1049.279	24737.47	49793.66	47021.28	965.1229	51001.73
SDEV	20.995	7.088	504.13	993.66	1021.37	20.7406	1172.79
%RSD	2.094791	.6755028	2.037936	1.995560	2.172152	2.149015	2.299514
#1	1019.233	1053.944	25132.17	50505.20	47823.96	981.6912	52005.32
#2	1008.697	1052.771	24910.68	50217.40	47368.26	971.8151	51287.38
#3	978.7647	1041.123	24169.57	48658.37	45871.62	941.8624	49712.50
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	992.9908	1001.228	991.1641	1090.943	996.5062	1024.825	990.0152
SDEV	20.5405	21.451	21.5530	25.169	16.7909	20.852	5.0558
%RSD	2.068544	2.142439	2.174519	2.307093	1.684972	2.034657	.5106819
#1	1010.515	1015.966	1008.802	1110.016	1008.722	1035.831	990.4762
#2	998.0704	1011.099	997.5508	1100.397	1003.437	1037.868	994.8247
#3	970.3872	976.6186	967.1394	1062.416	977.3594	1000.776	984.7446
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	997.7131	995.4465	997.0293	996.5997	986.7232	1029.908	1022.283
SDEV	20.6386	18.8690	15.7550	6.0975	7.2818	26.750	19.341
%RSD	2.068590	1.895535	1.580196	.6118268	.7379740	2.597287	1.891963
#1	1016.119	1009.436	1008.360	990.0623	990.6781	1052.792	1027.358
#2	1001.620	1002.918	1003.690	1002.132	991.1717	1036.432	1038.580
#3	975.4004	973.9858	979.0379	997.6044	978.3198	1000.499	1000.910
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1007.966	1011.284	999.3572	1023.357	1005.842	2560.711
SDEV	19.139	20.143	20.0819	23.286	20.717	40.891
%RSD	1.898790	1.991820	2.009486	2.275495	2.059670	1.596879
#1	1021.259	1026.549	1013.080	1044.767	1021.213	2527.933
#2	1016.610	1018.849	1008.684	1026.740	1014.030	2547.666
#3	986.0300	988.4536	976.3080	998.5646	982.2820	2606.533
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/31/10 02:57:53
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2697825	-.664667	-.269229	-.039939	78.37059	.2110348	.3110986
SDEV	.7533055	20.11691	.045418	.141087	78.12321	.1607690	.1891007
%RSD	279.2270	3026.615	16.86950	353.2588	99.68435	76.18128	60.78480
#1	1.015926	-17.5164	-.242216	-.179526	78.87266	.1037207	.4568428
#2	.2839080	21.60694	-.243807	.1026009	156.2415	.3958766	.3790386
#3	-.490486	-6.08458	-.321665	-.042890	-.002448	.1335070	.0974144
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4385229	.4254286	8.971638	4.491061	19.60334	-.080403	103.2358
SDEV	.6696743	.5119901	3.989773	4.069903	8.03852	.053960	127.7340
%RSD	152.7114	120.3469	44.47095	90.62231	41.00587	67.11176	123.7303
#1	.8450168	.8905245	9.934750	9.098702	10.86214	-.104688	250.5659
#2	.8049563	.5089475	12.39170	1.386403	26.67789	-.018568	23.54181
#3	-.334404	-.123186	4.588468	2.988076	21.26998	-.117954	35.59968
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3025857	-1.09916	.3811353	.2133536	-1.96322	-.940079	6.258721
SDEV	.5974882	2.85401	.2498720	.0483299	.79687	1.693764	3.268338
%RSD	197.4608	259.6534	65.55991	22.65246	40.59000	180.1724	52.22055
#1	.3719409	-4.15065	.5254100	.2406388	-2.82179	1.015177	9.702864
#2	.8623697	1.504395	.5253880	.2418703	-1.82057	-1.87816	3.200443
#3	-.326553	-.651227	.0926080	.1575516	-1.24731	-1.95726	5.872856
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.49950	.0635171	-2.97978	5.125646	6.819703	1.684896	-2.25530
SDEV	.91112	1.457823	1.62849	2.701286	3.802666	5.926928	1.60107
%RSD	60.76173	2295.167	54.65122	52.70139	55.76000	351.7681	70.99139
#1	-2.43432	1.246121	-4.85744	6.923970	11.08548	7.526277	-2.24024
#2	-1.45008	-1.56525	-1.95281	2.019343	3.785344	-4.32403	-.661818
#3	-.614090	.5096797	-2.12910	6.433623	5.588287	1.852439	-3.86386
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.248795	-3.37907	1.643031	6.099508	1.390256	2579.689
SDEV	4.048406	3.81063	1.474893	7.947677	.921283	48.334
%RSD	124.6125	112.7716	89.76659	130.3003	66.26713	1.873636
#1	1.174931	-4.55661	2.500519	13.68505	2.331403	2555.600
#2	.6575170	.8813435	2.488590	6.780009	1.349150	2548.133
#3	7.913937	-6.46195	-.060015	-2.16654	.4902140	2635.333
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-04 OPERATOR:
RUN TIME: 03/31/10 03:04:53
COMMENT: SDG:MB8263 CLIENTID:MB8267 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.345908	18123.37	98.64582	.5683203	3129.666	-.795622	18.08114
SDEV	.415994	51.51	.28042	.0181047	93.023	.111191	.29477
%RSD	120.2616	.2842054	.2842649	3.185644	2.972287	13.97537	1.630272
#1	-.790067	18151.53	98.83917	.5808415	3220.874	-.918757	17.88152
#2	-.282236	18063.92	98.32421	.5765578	3034.929	-.702562	17.94219
#3	.0345795	18154.65	98.77407	.5475617	3133.196	-.765547	18.41970
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	88.67712	20.52555	33649.52	2945.584	7969.737	359.1507	8233.633
SDEV	.90036	.24503	96.58	9.773	36.171	1.3791	104.934
%RSD	1.015325	1.193804	.2870047	.3317939	.4538519	.3839975	1.274452
#1	88.50845	20.24334	33660.05	2954.048	7971.866	359.4366	8222.986
#2	87.87303	20.68429	33548.11	2934.888	7932.548	357.6511	8134.429
#3	89.64990	20.64902	33740.40	2947.817	8004.796	360.3646	8343.484
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	36.48674	-2.68717	70.01758	104.0267	19.33113	2.796495	3.812316
SDEV	.37300	4.85012	.73818	.3301	1.75951	1.431091	2.778791
%RSD	1.022296	180.4918	1.054285	.3172982	9.101958	51.17446	72.88984
#1	36.27139	2.898745	70.01305	104.1161	17.96820	4.254112	5.893129
#2	36.91745	-5.82916	69.28166	103.6611	18.70772	1.393493	4.887173
#3	36.27139	-5.13108	70.75801	104.3028	21.31747	2.741878	.6566453
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	59.38747	27.09407	15.45007	4.026783	3.700437	-.775568	4.575042
SDEV	1.67650	2.85256	2.40990	5.541383	1.441007	4.771807	4.515810
%RSD	2.822981	10.52834	15.59796	137.6132	38.94153	615.2659	98.70533
#1	59.66147	28.37252	12.76861	7.663418	5.004479	-5.20596	8.972223
#2	60.91008	23.82592	16.14668	6.767860	3.943463	4.276679	-.050715
#3	57.59085	29.08378	17.43493	-2.35093	2.153370	-1.39742	4.803617
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	25.84442	-.555068	7.179496	508.6578	43.18979	2525.622
SDEV	5.46382	1.393194	.282580	6.6121	.26786	14.568
%RSD	21.14120	250.9951	3.935931	1.299917	.6201984	.5767980
#1	20.07342	-1.53098	6.961069	503.5674	42.97276	2511.666
#2	30.93786	-1.17467	7.498635	506.2750	43.10746	2540.733
#3	26.52200	1.040447	7.078785	516.1311	43.48915	2524.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-05 OPERATOR:
RUN TIME: 03/31/10 03:11:53
COMMENT: SDG:MB8263 CLIENTID:MB8268 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.041090	44463.93	249.3877	1.937772	37183.75	-1.14327	46.01254
SDEV	.346940	32.53	.4004	.040327	77.46	.12397	.20055
%RSD	844.3470	.0731591	.1605362	2.081119	.2083302	10.84326	.4358684
#1	-.288464	44500.27	249.8310	1.958730	37246.70	-1.00324	45.83469
#2	.3554931	44437.55	249.2794	1.891281	37207.29	-1.23900	46.22992
#3	-.190299	44453.95	249.0525	1.963305	37097.24	-1.18757	45.97301
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	130.4913	131.6637	92595.66	12821.12	42815.83	1283.002	10619.37
SDEV	.5956	.7461	168.81	26.41	91.96	2.218	182.85
%RSD	.4564534	.5666467	.1823060	.2059656	.2147862	.1728468	1.721840
#1	129.9927	130.8210	92401.55	12847.41	42736.11	1281.338	10735.96
#2	131.1509	131.9302	92708.11	12794.59	42916.44	1285.520	10713.52
#3	130.3305	132.2399	92677.31	12821.37	42794.94	1282.150	10408.63
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	180.2561	5.923765	186.8345	214.3921	46.33279	-4.29465	4.065161
SDEV	1.0919	1.591635	.5431	.4555	.26156	2.46268	.713345
%RSD	.6057672	26.86864	.2906718	.2124408	.5645208	57.34297	17.54778
#1	180.3639	4.291163	186.6179	214.6240	46.32865	L-5.80613	3.637036
#2	181.2902	7.470997	187.4524	214.6849	46.07332	-1.45292	3.669803
#3	179.1143	6.009135	186.4331	213.8673	46.59639	L-5.62490	4.888644
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	38.45058	53.52200	42.73795	5.450669	3.368658	12.96978	-12.9187
SDEV	.52866	1.77744	1.15103	3.086672	.555085	10.47792	1.5969
%RSD	1.374911	3.320945	2.693222	56.62922	16.47794	80.78722	12.36091
#1	38.73414	51.82521	43.57885	2.956176	3.972148	5.576364	-11.4936
#2	37.84063	55.37038	41.42613	4.493223	3.253916	24.96045	-14.6446
#3	38.77696	53.37041	43.20885	8.902608	2.879910	8.372512	-12.6179
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	24.90816	-6.05303	.1340971	2707.126	30.29960	2536.778
SDEV	3.89290	2.34766	1.099508	6.918	.76141	12.851
%RSD	15.62901	38.78483	819.9343	.2555461	2.512923	.5065866
#1	29.01942	-3.70903	1.291791	2707.766	30.53177	2526.000
#2	21.27842	-6.04575	-.896111	2713.702	29.44914	2533.333
#3	24.42663	-8.40433	.0066114	2699.911	30.91791	2551.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-06 OPERATOR:
RUN TIME: 03/31/10 03:18:53
COMMENT: SDG:MB8263 CLIENTID:MB8269 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.701304	63565.02	370.8769	2.883305	49784.29	-1.85656	65.33195
SDEV	.303024	216.84	1.6021	.134403	374.11	.08136	.59970
%RSD	43.20860	.3411368	.4319800	4.661433	.7514539	4.382150	.9179258
#1	-.619444	63314.92	369.0458	2.736767	49708.96	-1.85846	65.43469
#2	-1.03685	63700.58	371.5637	2.912314	49453.57	-1.93694	64.68753
#3	-.447619	63679.55	372.0210	3.000836	50190.32	-1.77426	65.87366
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	189.5891	150.3948	131064.7	20742.95	66349.32	1772.011	11872.68
SDEV	1.6216	1.5481	1102.9	82.98	475.63	8.440	110.56
%RSD	.8552981	1.029373	.8414956	.4000327	.7168615	.4763103	.9312205
#1	187.7259	151.7698	129932.9	20649.70	65878.05	1763.485	11991.79
#2	190.3604	150.6968	131125.1	20808.65	66340.70	1772.187	11773.33
#3	190.6812	148.7180	132136.2	20770.50	66829.20	1780.362	11852.94
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	304.1148	15.19810	181.3249	295.6238	57.12022	L-7.27503	4.889186
SDEV	2.5141	3.53026	1.3065	1.7043	.56846	1.38511	1.616493
%RSD	.8267042	23.22831	.7205238	.5765166	.9951996	19.03925	33.06261
#1	301.6016	12.06611	180.2418	294.1750	56.60450	L-5.74519	3.968497
#2	304.1130	19.02368	180.9570	295.1948	57.72975	L-7.63596	3.943366
#3	306.6298	14.50450	182.7759	297.5017	57.02640	L-8.44395	6.755694
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.54705	63.16035	54.09880	5.755009	4.452240	15.32618	-18.5634
SDEV	1.21863	2.09168	.78131	3.376797	1.661750	4.17870	3.5398
%RSD	6.234365	3.311700	1.444230	58.67579	37.32391	27.26508	19.06846
#1	18.60638	60.77555	54.51627	2.030579	4.931355	12.00785	-14.6130
#2	20.92371	64.02155	54.58270	6.617610	2.603568	20.01899	-21.4474
#3	19.11106	64.68394	53.19743	8.616836	5.821797	13.95170	-19.6297
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.34800	-5.14062	-.848417	3681.520	44.81506	2593.333
SDEV	1.12544	1.29035	.222248	12.436	.69103	19.591
%RSD	5.035959	25.10113	26.19557	.3377975	1.541960	.7554339
#1	21.96443	-6.06428	-.925629	3668.450	44.18883	2612.000
#2	23.61509	-5.69130	-.597861	3682.903	44.69994	2595.066
#3	21.46450	-3.66630	-1.02176	3693.207	45.55643	2572.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-07 OPERATOR:
RUN TIME: 03/31/10 03:25:54
COMMENT: SDG:MB8263 CLIENTID:MB8270 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.407327	52367.88	481.1231	2.167444	71005.42	-1.52165	61.02140
SDEV	.242529	358.56	3.4201	.076071	572.47	.15362	.61646
%RSD	59.54171	.6846989	.7108645	3.509713	.8062299	10.09530	1.010234
#1	-.201437	52781.57	485.0722	2.231791	71664.24	-1.61776	61.73053
#2	-.345871	52175.61	479.1720	2.083488	70722.73	-1.34449	60.61323
#3	-.674672	52146.46	479.1251	2.187053	70629.29	-1.60271	60.72043
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	133.7027	124.9380	114414.8	16400.23	68184.93	2179.771	8763.978
SDEV	.4747	.4267	877.8	115.56	485.30	15.926	128.344
%RSD	.3550387	.3414894	.7672212	.7046487	.7117387	.7306374	1.464444
#1	134.0964	124.7476	115422.9	16533.67	68743.95	2198.151	8884.897
#2	133.1755	125.4267	113819.0	16334.34	67871.62	2171.118	8777.721
#3	133.8360	124.6398	114002.6	16332.69	67939.23	2170.044	8629.315
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	317.4242	9.271518	138.8647	253.6469	46.88693	-4.82875	3.367920
SDEV	2.5040	2.349771	.9018	2.0654	.81401	2.08218	.978067
%RSD	.7888530	25.34398	.6494195	.8142697	1.736113	43.12056	29.04070
#1	320.3094	11.98146	139.9052	256.0063	46.87303	L-6.34807	4.485620
#2	316.1452	8.033048	138.3104	252.1659	47.70780	L-5.68284	2.668798
#3	315.8180	7.800042	138.3783	252.7685	46.07996	-2.45532	2.949342
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.66907	52.38673	44.13414	6.887304	1.606088	13.77758	-14.1227
SDEV	.66451	2.55031	.80772	2.358452	1.978589	6.73932	1.5384
%RSD	3.378437	4.868239	1.830143	34.24347	123.1931	48.91514	10.89302
#1	19.08313	54.15378	43.23102	6.203812	3.622985	6.651935	-12.8432
#2	20.39108	53.54335	44.78742	4.946087	1.527106	14.63164	-15.8296
#3	19.53300	49.46305	44.38397	9.512014	-.331828	20.04915	-13.6954
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	21.62292	-8.01056	-1.03800	3191.432	33.66901	2542.800
SDEV	4.13234	.95295	.13238	19.309	.47342	22.173
%RSD	19.11091	11.89620	12.75360	.6050179	1.406111	.8719797
#1	19.96480	-7.89444	-1.02881	3213.683	33.14641	2517.200
#2	26.32679	-7.12099	-1.17474	3179.093	34.06922	2555.267
#3	18.57716	-9.01626	-.910455	3181.518	33.79141	2555.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-08 OPERATOR:
RUN TIME: 03/31/10 03:32:54
COMMENT: SDG:MB8263 CLIENTID:MB8271 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.714871	33658.77	230.7603	1.519710	82113.10	-1.15224	35.62791
SDEV	.324558	497.11	3.8204	.031200	1363.90	.13732	.75607
%RSD	45.40097	1.476925	1.655584	2.052993	1.661000	11.91804	2.122133
#1	-.667854	34228.59	235.1461	1.555688	83566.67	-1.06085	36.38113
#2	-1.06037	33313.87	228.1559	1.503337	80861.37	-1.08572	34.86901
#3	-.416385	33433.84	228.9790	1.500105	81911.27	-1.31016	35.63359
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	67.48639	81.81368	69035.05	10101.62	40741.90	1816.937	5550.365
SDEV	1.28195	.06193	1003.20	131.15	605.79	27.036	65.117
%RSD	1.899566	.0756946	1.453169	1.298301	1.486906	1.488018	1.173196
#1	68.92212	81.77828	70163.20	10252.42	41423.86	1847.327	5591.724
#2	66.45644	81.77758	68243.23	10014.18	40266.07	1795.553	5475.305
#3	67.08061	81.88519	68698.73	10038.25	40535.77	1807.931	5584.067
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	113.9788	2.732453	85.59174	169.0252	29.31039	-3.28625	2.324405
SDEV	1.0853	1.744921	1.03407	2.9319	1.00543	1.26976	2.071125
%RSD	.9521712	63.85915	1.208144	1.734610	3.430282	38.63860	89.10348
#1	115.1493	1.786797	86.68147	172.2334	30.06705	-2.18328	2.603995
#2	113.0059	4.746077	84.62418	166.4848	29.69460	-4.67433	.1276867
#3	113.7811	1.664486	85.46957	168.3573	28.16950	-3.00115	4.241533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	18.12045	37.25528	25.33729	.2112006	3.374609	6.735893	-8.29462
SDEV	1.86291	2.89865	2.35677	.4469651	3.286022	1.894662	2.81739
%RSD	10.28072	7.780514	9.301586	211.6305	97.37490	28.12785	33.96652
#1	17.09131	39.10397	25.54864	.4716880	3.663643	4.720764	-5.63503
#2	20.27090	33.91455	27.58126	.4668164	-.046383	8.481147	-11.2470
#3	16.99915	38.74734	22.88196	-.304902	6.506566	7.005767	-8.00187
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	25.26041	-6.57949	-1.39737	2085.615	21.12497	2524.400
SDEV	1.04383	3.68750	.60082	34.875	.08024	41.166
%RSD	4.132281	56.04539	42.99627	1.672156	.3798539	1.630743
#1	24.98785	-5.84723	-1.58176	2124.237	21.03365	2477.133
#2	24.37990	-3.31305	-.725966	2056.431	21.15705	2552.400
#3	26.41348	L-10.5782	-1.88438	2076.175	21.18421	2543.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-09 OPERATOR:
RUN TIME: 03/31/10 03:39:54
COMMENT: SDG:MB8263 CLIENTID:MB8272 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.626266	39490.91	272.9883	1.911781	90564.60	-1.35108	40.71978
SDEV	.499248	695.43	4.8210	.148862	1690.31	.12712	.95026
%RSD	79.71819	1.760985	1.766002	7.786570	1.866409	9.408535	2.333665
#1	-.545426	38699.79	267.5233	1.742241	88615.27	-1.47505	39.67108
#2	-1.16100	40005.68	276.6386	2.021091	91454.33	-1.35716	40.96456
#3	-.172371	39767.27	274.8030	1.972010	91624.21	-1.22104	41.52371
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	79.61571	106.5367	79748.77	12216.59	46843.30	1940.280	5466.310
SDEV	1.46315	.5736	1602.42	186.50	918.43	36.054	146.167
%RSD	1.837760	.5383877	2.009338	1.526628	1.960643	1.858184	2.673958
#1	77.92623	106.2855	77900.13	12008.21	45783.52	1898.656	5319.469
#2	80.45395	106.1316	80741.35	12367.87	47407.24	1961.768	5467.669
#3	80.46695	107.1930	80604.83	12273.68	47339.15	1960.416	5611.793
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	124.3910	4.948043	97.27354	183.1120	42.25219	-4.18177	1.869598
SDEV	2.7215	4.458746	2.08404	3.6046	.83866	.70753	.462952
%RSD	2.187866	90.11131	2.142454	1.968495	1.984897	16.91948	24.76213
#1	121.2632	3.853949	94.88944	178.9508	41.29159	-3.92183	1.380306
#2	125.6919	1.138184	98.18226	185.1151	42.62618	-3.64097	2.300711
#3	126.2179	9.851997	98.74892	185.2701	42.83878	-4.98251	1.927778
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.89763	47.94410	39.40397	2.942456	1.329287	12.19031	-12.3602
SDEV	1.60431	.92719	1.10033	2.685524	.908594	5.06120	2.1028
%RSD	7.326417	1.933901	2.792446	91.26811	68.35201	41.51821	17.01275
#1	20.87063	47.52841	38.17145	-.054524	2.092034	17.79035	-14.7663
#2	21.07592	47.29749	40.28744	3.751291	1.571776	10.83781	-10.8742
#3	23.74633	49.00639	39.75304	5.130600	.3240495	7.942751	-11.4402
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.73633	-6.05219	-1.62745	2494.091	25.39156	2591.800
SDEV	2.83640	2.67465	.42102	51.635	1.34221	36.126
%RSD	12.47519	44.19311	25.86981	2.070285	5.286038	1.393860
#1	20.23185	-3.80038	-1.25547	2434.782	24.17603	2633.267
#2	25.81637	-9.00860	-1.54238	2518.459	25.16663	2567.133
#3	22.16077	-5.34758	-2.08451	2529.033	26.83202	2575.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-10 OPERATOR:
RUN TIME: 03/31/10 03:46:54
COMMENT: SDG:MB8263 CLIENTID:MB8273 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1945214	42910.35	460.9216	1.836191	17801.86	-1.26705	45.97078
SDEV	.6823443	1672.87	18.1724	.174192	682.67	.18087	1.50171
%RSD	350.7811	3.898534	3.942621	9.486569	3.834850	14.27492	3.266669
#1	.7165917	41083.64	441.3437	1.654616	17066.60	-1.14322	44.25924
#2	-.577567	44367.64	477.2501	2.001915	18415.65	-1.47461	47.06762
#3	.4445397	43279.75	464.1710	1.852043	17923.34	-1.18331	46.58549
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	87.81581	119.2381	86724.84	12224.03	30445.78	1258.643	5998.384
SDEV	3.22895	.6224	3343.78	417.32	1184.90	48.141	150.073
%RSD	3.676959	.5219903	3.855622	3.413959	3.891829	3.824823	2.501891
#1	84.22881	118.5689	83084.52	11775.97	29153.23	1206.243	5866.372
#2	90.49033	119.7996	89659.43	12601.64	31480.60	1300.912	5967.170
#3	88.72829	119.3458	87430.55	12294.49	30703.51	1268.775	6161.609
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	152.0892	3.843818	103.3220	207.2136	39.57421	L-7.09388	1.893254
SDEV	5.5980	8.457369	3.9005	8.2838	2.08295	6.54469	1.731868
%RSD	3.680706	220.0252	3.775059	3.997706	5.263398	92.25823	91.47572
#1	145.8597	10.52892	98.98093	198.2236	37.29512	L-9.64932	.5959975
#2	156.6980	6.666418	106.5317	214.5381	41.37933	.3429979	3.859916
#3	153.7098	-5.66389	104.4534	208.8790	40.04819	L-11.9753	1.223850
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	17.22217	45.35126	36.68453	4.353156	.6604527	4.466121	-12.8699
SDEV	.63343	1.22275	2.53908	.288224	2.497932	7.580183	6.0962
%RSD	3.677985	2.696181	6.921383	6.621042	378.2151	169.7263	47.36814
#1	17.26533	43.94170	33.97150	4.021112	-1.11854	2.769056	-15.8537
#2	16.56827	46.12658	39.00361	4.538763	3.516177	12.75099	-5.85652
#3	17.83292	45.98550	37.07847	4.499592	-.416280	-2.12169	-16.8995
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	23.16523	-8.26179	.0579328	2487.741	24.07450	2587.222
SDEV	4.57628	1.17078	1.013985	98.007	1.44552	76.183
%RSD	19.75497	14.17100	1750.278	3.939613	6.004373	2.944598
#1	27.66642	-7.05719	-.748087	2379.592	22.45172	2668.600
#2	18.51738	-8.33266	-.274526	2570.683	25.22422	2517.600
#3	23.31188	-9.39552	1.196411	2512.946	24.54758	2575.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-11 OPERATOR:
RUN TIME: 03/31/10 03:53:54
COMMENT: SDG:MB8263 CLIENTID:MB8274 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1099559	50399.83	297.9447	2.108395	38482.42	-1.50428	50.36168
SDEV	.1222246	212.51	1.5227	.074290	233.92	.05877	.45901
%RSD	111.1578	.4216566	.5110614	3.523515	.6078500	3.906554	.9114356
#1	.2090717	50429.30	298.1544	2.076773	38670.43	-1.43704	50.36912
#2	.1474088	50174.12	296.3281	2.055149	38220.47	-1.54582	49.89899
#3	-.026613	50596.07	299.3517	2.193264	38556.37	-1.52997	50.81693
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	148.8857	118.9521	107244.2	15967.89	49989.59	1345.687	10684.66
SDEV	1.0833	.4074	723.9	85.20	319.57	7.721	229.64
%RSD	.7275890	.3424934	.6749576	.5335610	.6392760	.5737558	2.149271
#1	149.3266	118.6819	107077.7	15967.38	49960.29	1345.366	10924.93
#2	147.6515	119.4207	106618.2	15882.94	49685.68	1338.132	10467.38
#3	149.6790	118.7538	108036.9	16053.34	50322.80	1353.564	10661.65
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	212.0032	3.816291	150.8860	241.9519	44.09518	L-8.25625	4.136179
SDEV	1.5181	7.224460	1.2045	1.2122	1.24274	3.77032	1.554777
%RSD	.7160828	189.3058	.7983010	.5010006	2.818313	45.66621	37.58970
#1	212.1110	10.22722	151.0302	242.2795	44.81995	L-6.51692	2.858356
#2	210.4340	-4.01171	149.6159	240.6096	42.66021	L-5.66957	5.867203
#3	213.4645	5.233360	152.0120	242.9666	44.80538	L-12.5823	3.682980
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	20.31882	52.87563	39.70486	4.072570	4.163212	7.926300	-16.3401
SDEV	1.57305	1.11328	1.53835	3.241444	1.224932	4.312656	4.0517
%RSD	7.741823	2.105478	3.874473	79.59211	29.42275	54.40945	24.79588
#1	22.12715	54.12958	40.16583	.4555423	4.053223	12.12997	-15.8311
#2	19.56279	52.00351	37.98873	6.714627	5.439429	8.136581	-12.5670
#3	19.26653	52.49379	40.96003	5.047540	2.996984	3.512350	-20.6222
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	23.75822	-6.94334	-.435843	3120.210	35.64069	2571.178
SDEV	2.99686	1.62242	.780689	13.841	.56551	12.018
%RSD	12.61399	23.36658	179.1217	.4435828	1.586707	.4674014
#1	23.96425	-5.80609	-1.22823	3122.811	36.22330	2565.333
#2	26.64675	-8.80124	-.411897	3105.254	35.60477	2585.000
#3	20.66366	-6.22268	.3325977	3132.566	35.09399	2563.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-12 OPERATOR:
RUN TIME: 03/31/10 04:00:55
COMMENT: SDG:MB8263 CLIENTID:MB8276 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.612824	29219.06	102.5949	1.156153	1216.002	.8963100	59.98863
SDEV	.830387	413.97	1.5989	.076335	37.582	.1282368	1.02404
%RSD	135.5016	1.416789	1.558458	6.602538	3.090600	14.30719	1.707051
#1	-1.37759	29691.54	104.4275	1.232721	1203.017	.9537797	61.14016
#2	-.731328	29045.66	101.8726	1.155685	1186.633	.7493906	59.18021
#3	.2704482	28919.99	101.4846	1.080052	1258.354	.9857597	59.64552
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	63.44479	51.69498	51364.83	5057.712	9418.191	430.5821	4929.063
SDEV	.75779	.45697	748.16	81.308	125.444	5.8464	78.994
%RSD	1.194403	.8839723	1.456556	1.607611	1.331937	1.357789	1.602617
#1	64.31797	52.00535	52221.80	5149.834	9562.661	437.3236	4983.459
#2	63.05729	51.17023	51030.87	5027.340	9355.048	427.5188	4838.455
#3	62.95912	51.90935	50841.81	4995.961	9336.865	426.9039	4965.275
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	62.39186	-.123489	56.40271	165.5600	62.12769	-2.56376	2.176173
SDEV	.74126	3.199350	.91254	2.2569	1.15924	2.83801	1.315734
%RSD	1.188073	2590.790	1.617906	1.363187	1.865901	110.6972	60.46092
#1	63.24354	.1182671	57.40262	168.1646	63.10582	-2.34454	1.170521
#2	62.03983	-3.43686	56.19064	164.3339	60.84724	.1582827	3.665232
#3	61.89222	2.948125	55.61488	164.1817	62.42999	L-5.50502	1.692766
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	31.25819	70.01674	58.18250	1.468695	2.524599	7.304946	-7.49549
SDEV	1.64416	1.69760	.89142	1.211837	2.510597	3.421042	2.55789
%RSD	5.259922	2.424566	1.532102	82.51110	99.44535	46.83186	34.12567
#1	30.77923	71.40048	58.95803	1.722114	.8902996	7.913667	-7.47079
#2	29.90669	68.12245	57.20861	.1501880	5.415368	10.38077	-4.95005
#3	33.08864	70.52728	58.38085	2.533784	1.268131	3.620404	-10.0656
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	30.80240	-3.57245	.9417873	789.6138	23.81528	2538.133
SDEV	2.36753	3.82145	.9565890	8.7990	.82568	25.509
%RSD	7.686174	106.9701	101.5717	1.114347	3.467008	1.005044
#1	33.47194	-1.65396	.7343758	797.9247	24.73344	2508.733
#2	29.97786	-1.09032	1.985066	780.3968	23.13375	2554.400
#3	28.95739	-7.97306	.1059199	790.5199	23.57865	2551.267
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-13 OPERATOR:
RUN TIME: 03/31/10 04:07:55
COMMENT: SDG:MB8263 CLIENTID:MB8277 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0556998	28945.43	126.5558	.9515501	2431.936	-.883970	18.15047
SDEV	.0333090	106.86	.3683	.0470922	3.249	.094449	.17174
%RSD	59.80085	.3691756	.2909806	4.949000	.1336051	10.68466	.9462122
#1	.0225660	28870.19	126.3924	1.005910	2435.674	-.863401	18.24468
#2	.0553522	28898.36	126.2974	.9255688	2430.346	-.987008	17.95224
#3	.0891812	29067.75	126.9774	.9231716	2429.788	-.801499	18.25450
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	90.63831	44.32505	50830.71	4996.627	10602.44	615.7664	9642.938
SDEV	.05845	.36311	88.67	11.266	21.47	1.4316	145.607
%RSD	.0644877	.8191943	.1744489	.2254640	.2024710	.2324878	1.509983
#1	90.61491	44.00307	50802.98	4994.514	10589.65	614.9308	9633.457
#2	90.59517	44.25346	50759.21	4986.567	10590.45	614.9489	9502.303
#3	90.70483	44.71862	50929.93	5008.799	10627.23	617.4194	9793.053
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	56.15636	-3.35386	89.44357	154.3087	51.23838	.6619682	2.712676
SDEV	.17594	2.72687	.17538	.2419	.85527	.6659907	.974714
%RSD	.3132987	81.30515	.1960829	.1567452	1.669190	100.6077	35.93183
#1	56.30843	-5.44962	89.36262	154.1536	50.47041	-.042839	3.816165
#2	56.19699	-.270882	89.32329	154.1850	51.08463	.7479547	1.969094
#3	55.96366	-4.34110	89.64481	154.5874	52.16009	1.280789	2.352769
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	32.66355	58.41921	47.64683	4.372369	1.879322	7.825037	-2.91895
SDEV	.78373	1.93708	1.64580	1.615261	1.933271	2.447308	1.20522
%RSD	2.399411	3.315829	3.454175	36.94246	102.8706	31.27535	41.28967
#1	32.05363	59.91422	45.74907	3.969777	3.734715	7.747219	-3.93679
#2	33.54750	56.23087	48.50886	6.150848	-.123397	5.417566	-1.58810
#3	32.38950	59.11253	48.68257	2.996482	2.026647	10.31033	-3.23196
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	30.78712	-5.94826	9.502601	944.4758	45.76506	2554.044
SDEV	2.51677	5.29031	1.200540	2.6988	.52169	3.289
%RSD	8.174751	88.93866	12.63380	.2857507	1.139931	.1287593
#1	32.33266	-3.30573	8.694059	942.0791	45.45650	2550.267
#2	27.88301	L-12.0392	8.931684	943.9492	45.47127	2555.600
#3	32.14570	-2.49982	10.88206	947.3992	46.36739	2556.267
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/31/10 04:14:56
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	107.4116	51618.29	1015.022	1011.748	51360.99	1018.537	1020.510
SDEV	.6670	107.77	2.261	1.220	58.85	.706	1.609
%RSD	.6209338	.2087874	.2227695	.1205513	.1145714	.0693318	.1576259
#1	107.9931	51719.93	1016.745	1013.135	51427.13	1019.313	1022.367
#2	107.5582	51505.29	1012.461	1010.843	51341.39	1017.931	1019.531
#3	106.6836	51629.65	1015.858	1011.266	51314.44	1018.367	1019.633
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1031.142	1070.315	25451.59	51212.58	48273.12	991.6942	52239.67
SDEV	2.205	3.261	16.54	117.48	55.58	1.5695	258.95
%RSD	.2138640	.3047042	.0649941	.2294053	.1151290	.1582661	.4957040
#1	1033.529	1074.004	25445.48	51296.45	48317.61	993.3887	52485.89
#2	1029.180	1069.126	25438.97	51078.30	48210.82	990.2903	52263.49
#3	1030.716	1067.815	25470.31	51262.98	48290.92	991.4035	51969.62
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1021.549	1035.784	1019.326	1122.583	1027.392	1050.344	1020.994
SDEV	2.253	9.724	1.296	1.917	7.307	9.143	18.625
%RSD	.2205683	.9388182	.1271169	.1707767	.7111870	.8704718	1.824182
#1	1022.104	1031.193	1020.358	1124.724	1024.486	1051.753	1000.907
#2	1019.071	1046.953	1017.872	1121.025	1021.985	1040.579	1024.386
#3	1023.473	1029.205	1019.748	1122.000	1035.704	1058.701	1037.690
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1025.866	1022.586	1029.785	1023.665	1019.656	1049.899	1050.562
SDEV	2.699	1.761	11.776	29.303	13.651	3.320	14.643
%RSD	.2630689	.1721734	1.143557	2.862563	1.338780	.3162538	1.393849
#1	1023.165	1022.534	1025.455	994.2831	1004.209	1052.869	1051.190
#2	1025.872	1024.372	1020.787	1023.824	1024.662	1050.513	1035.614
#3	1028.562	1020.852	1043.113	1052.889	1030.098	1046.314	1064.880
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1032.380	1043.972	1023.728	1050.887	1036.716	2548.089
SDEV	7.659	4.656	1.686	6.742	1.931	3.291
%RSD	.7418321	.4460032	.1646713	.6415964	.1862277	.1291398
#1	1038.294	1041.244	1022.148	1056.996	1035.823	2549.467
#2	1035.116	1049.348	1025.503	1052.013	1035.394	2550.467
#3	1023.729	1041.323	1023.533	1043.653	1038.931	2544.333
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/31/10 04:21:57
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3488832	-23.9784	-.294105	-.144055	-46.7658	.1041350	.3096615
SDEV	.3426380	14.7912	.282563	.256013	83.9872	.3040163	.1747463
%RSD	98.20994	61.68553	96.07555	177.7190	179.5910	291.9444	56.43139
#1	.1670571	-34.5854	-.554157	-.312188	-143.746	-.164650	.1326998
#2	.7441073	-7.08188	.0065718	.1505851	1.949247	.4340830	.4821048
#3	.1354852	-30.2680	-.334731	-.270562	1.498825	.0429719	.3141800
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1434353	.1352232	-4.86351	6.387803	2.041438	-.106892	100.3023
SDEV	.4356883	.4037958	9.62695	7.584933	15.19113	.272897	96.4022
%RSD	303.7525	298.6142	197.9423	118.7409	744.1386	255.3021	96.11168
#1	-.291399	-.230558	-13.0757	-1.06542	-12.2204	-.304649	13.24921
#2	.5799724	.5685221	5.730887	14.09792	18.01657	.2044534	83.74796
#3	.1417327	.0677052	-7.24573	6.130904	.3281785	-.220480	203.9096
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1771142	-3.23048	.2403717	.2011342	-1.82835	.0635158	6.070765
SDEV	.8595833	7.33388	.2629114	.3629233	1.42756	5.513828	1.543687
%RSD	485.3270	227.0212	109.3770	180.4384	78.07922	8681.036	25.42822
#1	.2608280	-.753297	-.063179	-.066776	Q-3.24667	-1.48330	7.841545
#2	.9917778	2.544015	.3882858	.6141618	-1.84668	Q6.185553	5.362076
#3	-.721263	Q-11.4822	.3960089	.0560168	-.391715	-4.51170	5.008673
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.58356	-.898506	-2.29730	2.483423	7.857033	5.809047	-2.80966
SDEV	.62162	1.333883	2.46437	1.076665	1.785205	9.935260	3.55441
%RSD	39.25460	148.4557	107.2723	43.35406	22.72110	171.0308	126.5068
#1	-2.01269	-1.14075	-4.30276	3.681786	9.913606	.8245742	-2.64021
#2	-.870702	.5398971	-3.04291	2.170867	6.950555	17.24978	.6569969
#3	-1.86730	-2.09467	.4537717	1.597618	6.706939	-.647217	-6.44575
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.999150	-1.02216	1.318419	-1.15196	.0243614	2575.000
SDEV	6.437194	3.00222	.751480	2.51345	.5789607	9.510
%RSD	160.9640	293.7127	56.99855	218.1884	2376.554	.3693033
#1	6.217324	-3.70599	1.523565	-2.77384	-.412772	2581.800
#2	9.033941	-1.58054	.4856694	1.743336	.6809706	2564.133
#3	-3.25382	2.220047	1.946023	-2.42539	-.195115	2579.066
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-14 OPERATOR:
RUN TIME: 03/31/10 04:28:58
COMMENT: SDG:MB8263 CLIENTID:MB8278 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3980299	51350.70	164.6841	3.348621	6763.110	-.724648	43.29662
SDEV	.5363781	585.62	2.0019	.054502	57.654	.177927	.52353
%RSD	134.7583	1.140432	1.215603	1.627588	.8524772	24.55364	1.209181
#1	-.207498	51772.47	166.3507	3.407964	6814.453	-.799587	43.68840
#2	.5880856	50682.07	162.4635	3.300804	6700.738	-.521509	42.70202
#3	.8135024	51597.57	165.2382	3.337096	6774.140	-.852848	43.49944
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	138.3245	117.8536	68443.55	8853.517	27482.42	642.3540	10645.25
SDEV	1.3012	.4655	780.19	87.347	305.36	7.5317	97.59
%RSD	.9406549	.3949839	1.139897	.9865847	1.111098	1.172518	.9167518
#1	139.2194	117.6035	68928.05	8931.195	27656.55	646.3142	10533.17
#2	136.8319	117.5665	67543.55	8758.963	27129.83	633.6683	10691.19
#3	138.9222	118.3907	68859.05	8870.392	27660.88	647.0794	10711.40
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	212.1045	4.522961	205.0109	268.5552	58.40725	-3.94873	3.725861
SDEV	2.6599	1.909506	2.2079	3.1163	1.55063	1.44109	1.103118
%RSD	1.254031	42.21806	1.076952	1.160405	2.654850	36.49497	29.60705
#1	213.9930	3.069350	206.0889	269.8253	59.24367	-2.35363	4.583596
#2	209.0626	3.813983	202.4711	265.0045	56.61801	-4.33581	2.481465
#3	213.2579	6.685551	206.4728	270.8360	59.36008	L-5.15674	4.112523
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	26.38566	66.40050	54.41019	1.446038	4.859370	6.775247	-9.30738
SDEV	.56246	.83509	2.41302	2.171361	1.841573	1.797622	2.21265
%RSD	2.131694	1.257661	4.434868	150.1594	37.89737	26.53219	23.77313
#1	26.73764	65.49788	56.11476	-.143754	6.938998	6.486882	-6.77199
#2	26.68238	66.55797	51.64911	.5618766	3.435170	8.699620	-10.8484
#3	25.73697	67.14565	55.46670	3.919990	4.203942	5.139240	-10.3017
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.43179	-6.29382	1.835607	2251.074	43.54920	2585.600
SDEV	1.54171	2.74618	.731397	26.978	.30368	21.543
%RSD	6.872870	43.63306	39.84498	1.198454	.6973340	.8331744
#1	21.71957	-9.27970	2.482846	2256.212	43.40959	2566.467
#2	24.20085	-3.87627	1.981831	2221.896	43.34043	2608.933
#3	21.37496	-5.72547	1.042144	2275.113	43.89758	2581.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-15 OPERATOR:
RUN TIME: 03/31/10 04:35:58
COMMENT: SDG:MB8263 CLIENTID:MB8279 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.02333	44498.88	238.8730	2.018852	57863.96	-1.51907	45.42543
SDEV	.22337	581.08	3.1235	.101597	634.83	.12069	.53059
%RSD	21.82808	1.305827	1.307613	5.032438	1.097109	7.944943	1.168041
#1	-1.18377	43869.21	235.5062	1.906040	57140.87	-1.43675	44.82439
#2	-.768208	44613.00	239.4363	2.047382	58121.29	-1.46285	45.62306
#3	-1.11800	45014.44	241.6766	2.103135	58329.73	-1.65761	45.82885
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	96.36873	132.4777	107571.2	13654.32	47670.30	1952.482	9123.573
SDEV	1.50973	.5036	1597.4	172.81	661.97	25.629	48.579
%RSD	1.566616	.3801447	1.484979	1.265582	1.388648	1.312661	.5324594
#1	94.69158	132.0042	105812.6	13462.44	46950.20	1925.162	9174.830
#2	96.79540	132.4221	107968.6	13702.81	47808.31	1956.290	9117.681
#3	97.61920	133.0068	108932.3	13797.70	48252.39	1975.995	9078.209
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	163.5748	9.350709	125.8892	207.0970	43.97996	L-7.50797	3.600685
SDEV	2.3760	8.843165	1.4184	2.2671	.94079	2.65294	2.826170
%RSD	1.452566	94.57214	1.126732	1.094701	2.139135	35.33499	78.48977
#1	160.9869	1.443275	124.4464	204.6365	44.08012	L-10.5711	5.141289
#2	164.0795	7.709256	125.9393	207.5532	44.86666	L-5.94117	5.321797
#3	165.6578	18.89960	127.2819	209.1013	42.99309	L-6.01169	.3389701
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	41.35905	50.85186	40.54338	1.619818	4.584906	11.89296	-17.1986
SDEV	1.98657	1.15679	.93958	4.683405	1.902992	6.07061	4.4717
%RSD	4.803226	2.274815	2.317460	289.1316	41.50559	51.04373	26.00051
#1	42.75870	51.58253	40.32883	4.358107	5.527609	10.34565	-21.0184
#2	39.08532	51.45490	41.57167	4.289314	5.832525	6.745744	-12.2799
#3	42.23313	49.51815	39.72963	-3.78797	2.394583	18.58748	-18.2976
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.50872	-8.29224	-.032203	2761.621	25.82276	2568.822
SDEV	1.76609	2.37690	.308064	30.837	.55025	21.440
%RSD	7.846232	28.66419	956.6266	1.116632	2.130873	.8346409
#1	24.53849	-9.76387	.0217373	2728.235	26.41914	2592.533
#2	21.32326	-5.55008	-.363675	2767.592	25.71435	2563.133
#3	21.66441	-9.56276	.2453283	2789.036	25.33478	2550.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-16 OPERATOR:
RUN TIME: 03/31/10 04:42:59
COMMENT: SDG:MB8263 CLIENTID:MB8280 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.692865	42077.22	134.6818	1.813284	6142.705	-1.29273	31.16791
SDEV	.569306	602.34	1.9024	.075226	125.066	.08569	.34575
%RSD	82.16695	1.431515	1.412520	4.148603	2.036010	6.628851	1.109307
#1	-1.31315	42583.25	136.2478	1.892984	6189.643	-1.36472	31.35802
#2	-.194196	42237.44	135.2330	1.803349	6237.512	-1.31552	31.37688
#3	-.571246	41410.96	132.5647	1.743520	6000.960	-1.19794	30.76882
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	99.81823	59.02981	101093.6	9393.490	18459.72	844.3890	18949.79
SDEV	.99887	.40558	1420.2	124.438	252.10	11.9664	223.54
%RSD	1.000687	.6870717	1.404809	1.324722	1.365656	1.417163	1.179661
#1	100.5138	59.14135	102166.9	9512.566	18641.55	853.1636	19145.80
#2	100.2673	59.36795	101630.7	9403.598	18565.66	849.2455	18997.23
#3	98.67365	58.58014	99483.19	9264.308	18171.94	830.7579	18706.33
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	80.52744	2.055575	107.4284	209.2552	51.19902	.2786825	2.790357
SDEV	1.26999	2.465565	1.3485	2.8254	.85332	1.518805	.856169
%RSD	1.577085	119.9453	1.255281	1.350225	1.666667	544.9947	30.68315
#1	81.52407	-.749516	108.1426	211.1874	51.13408	-.055899	1.889068
#2	80.96075	3.879561	108.2696	210.5657	50.38003	-1.04494	3.592832
#3	79.09751	3.036679	105.8730	206.0125	52.08295	1.936883	2.889171
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	60.33701	58.02137	47.78692	3.355310	2.503583	12.96981	-6.06209
SDEV	1.26685	1.24213	1.38081	5.792707	1.836963	3.76958	2.89752
%RSD	2.099620	2.140811	2.889510	172.6429	73.37335	29.06425	47.79734
#1	59.64767	59.44194	46.98027	-3.32782	4.488844	17.20728	-8.67931
#2	61.79905	57.13974	46.99918	6.457608	2.157855	9.989332	-6.55854
#3	59.56432	57.48243	49.38130	6.936146	.8640490	11.71281	-2.94842
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	23.49422	-4.89708	11.46418	1153.724	80.14098	2571.200
SDEV	3.72303	1.21578	.24203	13.469	.60399	25.607
%RSD	15.84657	24.82659	2.111201	1.167414	.7536552	.9959169
#1	26.32926	-4.30513	11.46464	1157.932	80.77406	2551.000
#2	19.27798	-6.29547	11.70598	1164.586	79.57104	2562.600
#3	24.87542	-4.09064	11.22192	1138.653	80.07782	2600.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-18 OPERATOR:
RUN TIME: 03/31/10 04:49:59
COMMENT: SDG:MB8263 CLIENTID:MB8282 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1126463	43322.01	160.2643	1.846888	9798.136	-.747906	44.18196
SDEV	.6070802	346.20	1.4190	.060612	91.315	.124070	.22312
%RSD	538.9258	.7991311	.8854145	3.281824	.9319627	16.58904	.5050095
#1	-.203010	43650.54	161.5045	1.916861	9708.866	-.867602	44.43394
#2	.8125236	43354.99	160.5717	1.813157	9891.367	-.756235	44.10248
#3	-.271575	42960.50	158.7168	1.810645	9794.174	-.619881	44.00946
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	111.7593	127.8822	89255.55	6261.099	22042.44	807.0598	8604.895
SDEV	1.2652	.8107	863.67	38.145	202.70	7.2634	104.556
%RSD	1.132100	.6339058	.9676396	.6092455	.9195867	.8999803	1.215077
#1	112.6852	126.9527	90071.98	6297.083	22241.79	813.9601	8697.429
#2	112.2751	128.4427	89343.33	6265.106	22048.98	807.7385	8625.785
#3	110.3177	128.2512	88351.34	6221.108	21836.55	799.4810	8491.471
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	118.2340	3.161717	205.8718	258.7523	46.53924	L-5.40711	3.228106
SDEV	1.4622	1.233629	1.9143	1.7807	.66668	4.02335	1.034037
%RSD	1.236659	39.01769	.9298714	.6881706	1.432501	74.40848	32.03230
#1	119.7977	4.578217	207.6414	260.4240	46.86398	-.958423	2.117350
#2	118.0036	2.323131	206.1342	258.9531	45.77242	L-8.79086	4.162823
#3	116.9008	2.583804	203.8398	256.8797	46.98133	L-6.47205	3.404147
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.17215	50.08393	44.76275	6.026667	1.826193	5.933596	-11.0737
SDEV	.06951	1.98726	.68756	1.159904	1.396027	3.343599	4.5157
%RSD	.1473482	3.967855	1.536016	19.24620	76.44462	56.35030	40.77877
#1	47.21243	52.16925	44.20843	5.919725	.2142310	8.979473	-5.92470
#2	47.21214	48.21195	44.54767	7.236338	2.623640	2.355997	-14.3607
#3	47.09189	49.87058	45.53213	4.923936	2.640709	6.465317	-12.9357
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.51288	-6.41630	2.751853	2273.114	29.97707	2565.800
SDEV	2.23243	3.14361	.310983	19.102	.06293	26.820
%RSD	9.916257	48.99416	11.30086	.8403666	.2099207	1.045291
#1	19.98021	-7.88911	2.440338	2288.872	30.04869	2538.400
#2	24.19509	-8.55311	2.752920	2278.601	29.93066	2567.000
#3	23.36333	-2.80667	3.062301	2251.868	29.95184	2592.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003190-19 OPERATOR:
RUN TIME: 03/31/10 04:56:59
COMMENT: SDG:MB8263 CLIENTID:MB8283 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0286434	49031.84	175.1852	2.384461	7381.879	-1.38990	37.41418
SDEV	.3044019	2655.43	9.4125	.290225	378.803	.17313	2.35815
%RSD	1062.728	5.415729	5.372862	12.17149	5.131526	12.45593	6.302835
#1	-.300974	47442.30	169.5821	2.128349	7048.881	-1.28917	35.71328
#2	.2991627	52097.36	186.0520	2.699694	7793.991	-1.58981	40.10612
#3	.0877417	47555.84	169.9215	2.325341	7302.764	-1.29073	36.42313
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	121.8532	78.25234	120280.2	10735.39	21254.94	1042.912	21211.34
SDEV	6.7764	.93286	6465.0	507.23	1138.25	55.073	934.75
%RSD	5.561104	1.192114	5.374967	4.724809	5.355247	5.280695	4.406830
#1	116.7621	77.55539	116072.4	10413.12	20535.88	1009.091	20565.67
#2	129.5446	79.31209	127724.2	11320.07	22567.27	1106.461	22283.23
#3	119.2530	77.88952	117043.9	10472.98	20661.66	1013.185	20785.12
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	91.21221	6.886504	120.8632	262.6607	88.78037	-.947799	2.645350
SDEV	4.87434	2.334160	6.3106	14.0692	4.11550	1.582411	1.402654
%RSD	5.343957	33.89471	5.221240	5.356424	4.635595	166.9564	53.02338
#1	87.63209	8.118161	116.8552	254.0228	85.63529	-1.69812	1.572478
#2	96.76342	4.194484	128.1374	278.8954	93.43814	.8702016	4.232570
#3	89.24112	8.346866	117.5970	255.0640	87.26765	-2.01548	2.131001
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	72.28342	97.71790	84.31066	.4878255	3.717650	10.96935	-6.90228
SDEV	4.40120	3.29395	4.98712	4.989340	1.493719	8.92620	5.33350
%RSD	6.088803	3.370879	5.915166	1022.771	40.17912	81.37403	77.27159
#1	69.86395	97.51721	79.69579	-5.15207	4.924971	20.86723	-12.9686
#2	77.36358	101.1076	89.60113	4.326195	4.180751	8.510591	-2.94934
#3	69.62275	94.52889	83.63506	2.289353	2.047228	3.530224	-4.78889
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	25.15590	-6.59097	13.66890	1321.131	94.47504	2508.955
SDEV	6.59949	1.06238	.92314	76.513	4.94153	100.835
%RSD	26.23436	16.11867	6.753551	5.791448	5.230509	4.018987
#1	24.44373	-7.53493	13.21294	1272.212	90.60111	2560.066
#2	18.94138	-5.44050	14.73130	1409.304	100.0401	2392.800
#3	32.08259	-6.79749	13.06246	1281.877	92.78389	2574.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032610-BLK1 OPERATOR:
RUN TIME: 03/31/10 05:04:00
COMMENT: SDG:1003173 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1234499	-29.7891	-.510260	-.330649	27.91221	-.221657	.0678176
SDEV	.4998263	1.9608	.027044	.022557	41.05303	.160034	.2428065
%RSD	404.8820	6.582175	5.300029	6.822046	147.0791	72.19900	358.0291
#1	.6611128	-30.8056	-.499691	-.341941	75.14865	-.063752	-.163615
#2	.0363193	-31.0329	-.490096	-.345330	.8458007	-.217480	.0464778
#3	-.327083	-27.5288	-.540992	-.304676	7.742171	-.383738	.3205896
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	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.022307	.2941417	-7.74102	-.834547	-8.03712	-.288378	-36.5586
SDEV	.510364	.4028496	10.65612	2.387887	1.40993	.030650	45.1024
%RSD	2287.885	136.9577	137.6578	286.1295	17.54270	10.62857	123.3699
#1	.3893662	.7234521	1.272925	-1.87974	-7.11354	-.252993	-18.2234
#2	.1370479	.2345902	-4.99442	1.897728	-7.33782	-.306682	-3.51153
#3	-.593336	-.075617	-19.5016	-2.52163	-9.66001	-.305459	-87.9410
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.180525	-2.32022	.0263624	.2706423	-1.44607	-2.43775	-.274035
SDEV	.625799	1.99947	.2755589	.2366388	.82276	.97299	.705961
%RSD	346.6543	86.17577	1045.274	87.43598	56.89666	39.91344	257.6173
#1	.1211083	-4.46272	.1305490	.4035309	-2.29691	-1.92152	-.529395
#2	.2373293	-1.99406	.2346372	.4109669	-.654606	-3.56006	.5240735
#3	-.900014	-.503887	-.286099	-.002571	-1.38668	-1.83166	-.816783
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.833789	-1.44454	-1.45187	-3.29437	1.229210	4.011410	-5.66215
SDEV	1.489579	1.58270	1.84066	2.86252	.576933	2.615299	1.54009
%RSD	178.6518	109.5643	126.7782	86.89129	46.93530	65.19650	27.19971
#1	.1472999	-1.02789	-2.93568	-3.15288	.7757539	2.066446	-3.91715
#2	-2.54783	-3.19389	.6078898	-.505216	1.033285	2.983236	-6.83146
#3	-.100837	-.111850	-2.02782	-6.22501	1.878591	6.984549	-6.23784
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.5340458	-2.94208	-.708154	2.694708	-.703138	2604.933
SDEV	5.680752	1.12073	.767403	5.723218	.229980	15.329
%RSD	1063.720	38.09309	108.3667	212.3873	32.70770	.5884738
#1	-.250035	-3.47923	-.975223	7.958141	-.467415	2621.000
#2	-4.71394	-3.69313	.1571001	3.523835	-.926910	2603.333
#3	6.566109	-1.65388	-1.30634	-3.39785	-.715089	2590.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032610-BS1 OPERATOR:
RUN TIME: 03/31/10 05:11:00
COMMENT: SDG:1003173 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	554.6060	2603.224	512.2435	486.9259	10369.61	517.9279	515.1025
SDEV	.8202	19.649	2.8155	2.0521	59.35	1.7835	2.4353
%RSD	.1478837	.7548055	.5496338	.4214483	.5723187	.3443495	.4727753
#1	554.3325	2581.761	509.1254	484.5567	10365.30	515.8685	512.3081
#2	553.9574	2620.327	514.5994	488.0750	10312.53	518.9587	516.7719
#3	555.5279	2607.585	513.0059	488.1461	10430.99	518.9564	516.2275
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	515.0028	542.3560	5170.328	11207.15	6075.071	500.3528	10684.51
SDEV	1.8318	.5215	32.803	46.54	23.283	2.1608	67.16
%RSD	.3556951	.0961459	.6344546	.4152660	.3832566	.4318650	.6286070
#1	512.9146	542.1882	5132.510	11159.14	6048.487	497.9001	10682.59
#2	516.3388	541.9391	5187.388	11252.06	6091.840	501.9757	10618.32
#3	515.7551	542.9407	5191.085	11210.25	6084.885	501.1827	10752.61
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	520.8772	1072.747	515.6331	1030.685	1044.513	1067.248	1035.709
SDEV	2.9164	.992	2.2477	4.347	3.103	9.229	11.351
%RSD	.5599058	.0924901	.4359188	.4217162	.2970541	.8647928	1.095971
#1	517.7960	1072.256	513.0394	1025.798	1040.954	1056.592	1023.134
#2	521.2410	1073.889	517.0118	1034.118	1046.649	1072.394	1038.799
#3	523.5947	1072.097	516.8482	1032.140	1045.936	1072.757	1045.196
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1040.144	1048.367	1042.408	1033.246	1036.935	1065.922	1067.905
SDEV	6.674	3.367	3.035	19.130	7.487	7.592	12.936
%RSD	.6416624	.3211618	.2911991	1.851407	.7220244	.7122064	1.211362
#1	1032.438	1044.703	1038.903	1011.809	1028.783	1062.546	1053.616
#2	1043.985	1051.326	1044.132	1039.351	1038.518	1074.616	1071.281
#3	1044.010	1049.071	1044.188	1048.578	1043.503	1060.604	1078.819
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1195.000						
LOW	797.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.5644613	-1.26484	-1.56606	2.829818	L-.717883	2587.578
SDEV	3.776443	1.85566	.70213	5.618312	.096998	11.825
%RSD	669.0349	146.7112	44.83431	198.5397	13.51168	.4569795
#1	-1.72514	-1.74180	-.760658	-.624994	L-.798712	2600.666
#2	-1.50474	-2.83545	-2.04929	-.198157	L-.744615	2577.666
#3	4.923265	.7827441	-1.88824	9.312604	L-.610322	2584.400
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC LOW	NOCHECK
HIGH					1200.000	
LOW					800.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/31/10 05:18:00
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.62753	-35.6822	-.432091	4.641415	-68.4939	4.976641	51.11211
SDEV	.34921	4.4357	.036790	.056998	72.9621	.075160	.45940
%RSD	3.285856	12.43126	8.514413	1.228026	106.5234	1.510255	.8988150
#1	10.91532	-36.6870	-.400657	4.648700	-66.6403	5.051120	51.14989
#2	10.72823	-30.8302	-.423062	4.694420	3.523706	4.900818	51.55146
#3	10.23904	-39.5293	-.472555	4.581125	-142.365	4.977986	50.63498
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.04730	26.64009	-3.60634	1.481654	-9.41731	14.49435	65.48133
SDEV	.44676	.14320	1.30769	1.893275	2.82750	.16967	12.37388
%RSD	4.446555	.5375359	36.26085	127.7812	30.02452	1.170588	18.89680
#1	10.01903	26.78317	-3.19359	3.569569	-6.67528	14.46222	72.19395
#2	10.50752	26.64033	-2.55482	.9989016	-9.25348	14.67779	51.20173
#3	9.615350	26.49677	-5.07060	-.123508	-12.3232	14.34304	73.04833
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.95858	25.07185	50.58152	54.79006	8.505763	35.94390	64.81490
SDEV	.98984	1.52549	.67836	.38400	.352502	2.71127	1.85848
%RSD	2.416693	6.084474	1.341124	.7008581	4.144267	7.543073	2.867361
#1	41.29300	24.15644	50.55320	54.81040	8.430785	36.80250	66.74185
#2	41.73789	26.83287	51.27359	55.16349	8.889722	32.90728	64.66940
#3	39.84484	24.22623	49.91775	54.39630	8.196783	38.12191	63.03345
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.468329	9.385275	8.060757	62.86954	65.78140	35.78554	36.01823
SDEV	.345616	.804049	.159656	3.76418	.99243	4.36619	2.41369
%RSD	4.081277	8.567131	1.980653	5.987283	1.508676	12.20100	6.701294
#1	8.457054	9.408565	7.936708	67.04736	66.58459	34.61570	37.88953
#2	8.819446	10.17743	8.240887	61.81910	66.08766	32.12344	33.29385
#3	8.128490	8.569835	8.004676	59.74216	64.67194	40.61749	36.87130
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	55.62929	51.82590	51.38709	50.35958	51.19785	2566.933
SDEV	.89800	.96680	.36688	1.21349	1.05463	19.094
%RSD	1.614261	1.865478	.7139619	2.409653	2.059906	.7438533
#1	56.65758	52.54936	50.96516	50.40926	50.36354	2562.666
#2	55.23077	50.72786	51.56504	51.54747	52.38324	2550.333
#3	54.99952	52.20049	51.63106	49.12202	50.84678	2587.800
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

ANALYSIS REPORT QC STANDARD 03/31/10 05:31:57 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/31/10 05:25:00
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5859743	258375.1	2.556052	.4396771	255674.2	-1.46949	4.816441
SDEV	.1772775	10834.9	.139254	.0600366	11689.0	.16882	.184234
%RSD	30.25345	4.193487	5.448028	13.65470	4.571825	11.48838	3.825111
#1	.3996362	245864.7	2.406177	.3958823	242190.5	-1.66340	4.653409
#2	.7525319	264742.3	2.580543	.5081138	261891.3	-1.35519	5.016311
#3	.6057547	264518.3	2.681436	.4150353	262940.7	-1.38989	4.779604
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	243900.0	2.000000	.0000000	234100.0	.0000000	3.000000
RANGE	20.00000	49997.06	400.0000	10.00000	47990.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	46.26112	25.66526	101346.1	1.393122	264008.3	18.18000	998.5911
SDEV	2.06697	.18259	4289.6	1.832443	11637.4	.90016	59.9306
%RSD	4.468045	.7114168	4.232626	131.5350	4.407980	4.951364	6.001513
#1	43.88883	25.52615	96393.01	2.702908	250574.1	17.14062	1048.419
#2	47.22026	25.59760	103847.2	-.700935	270457.0	18.69211	932.0892
#3	47.67427	25.87202	103798.2	2.177394	270993.8	18.70726	1015.265
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	36.00000	15.00000	94900.00	.0000000	248800.0	19.00000	.0000000
RANGE	20.00000	50.00000	19454.00	2000.000	51003.00	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.68256	3.663580	.6935002	28.87622	11.33389	-7.44112	4.917749
SDEV	1.06257	3.755016	.2216691	1.35771	2.71885	1.34262	1.279711
%RSD	4.900592	102.4958	31.96381	4.701837	23.98866	18.04328	26.02229
#1	20.55550	-.188192	.7258336	27.35677	8.549884	-8.59883	3.838606
#2	21.82613	3.865219	.4574400	29.97037	11.46926	-7.75523	6.331533
#3	22.66604	7.313714	.8972267	29.30153	13.98252	-5.96928	4.583107
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	1.000000	39.00000	5.000000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8138918	8.973366	12.50633	4.968611	4.887527	13.28261	-17.7923
SDEV	.5122258	6.074640	6.67521	7.041899	1.622477	2.97255	3.0576
%RSD	62.93537	67.69634	53.37462	141.7277	33.19627	22.37924	17.18498
#1	.8572129	15.80355	4.922680	-.323915	5.912100	16.56322	-21.1656
#2	.2813813	4.175278	15.10462	12.96092	3.016889	10.76809	-17.0079
#3	1.303081	6.941269	17.49171	2.268827	5.733592	12.51653	-15.2033
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.831518	-1.93139	-3.67640	-9.34471	-5.11504	2520.178
SDEV	1.120010	4.35697	1.38150	5.17964	.40658	83.042
%RSD	134.6946	225.5874	37.57751	55.42853	7.948615	3.295089
#1	-.242092	1.126359	-4.24011	-15.3018	-5.56842	2616.066
#2	-2.12315	-6.92014	-2.10217	-5.90398	-4.99389	2472.200
#3	-.129309	-.000378	-4.68690	-6.82838	-4.78282	2472.267
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/31/10 05:32:01
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	216.8782	251237.5	507.3985	487.2025	250125.5	985.2394	499.1906
SDEV	1.5348	5476.4	11.0166	11.9215	6383.5	22.4357	11.6311
%RSD	.7076812	2.179757	2.171193	2.446920	2.552118	2.277185	2.329986
#1	216.6906	253916.6	513.0887	493.7717	253405.7	999.6437	506.1338
#2	218.4982	254858.6	514.4065	494.3943	254202.0	996.6854	505.6752
#3	215.4458	244937.4	494.7004	473.4415	242768.8	959.3893	485.7628
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	210.0000	248400.0	475.0000	482.0000	234300.0	916.0000	455.0000
RANGE	43.00000	50922.00	400.0000	98.00001	48031.00	187.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	542.2045	558.4614	98024.09	-3.40700	256422.1	512.4369	904.9520
SDEV	12.7964	4.7320	2237.18	2.10294	5816.6	12.2311	33.3014
%RSD	2.360066	.8473354	2.282280	61.72393	2.268363	2.386851	3.679905
#1	549.7588	556.0551	99438.01	-5.07057	259923.8	519.4136	873.6337
#2	549.4251	563.9130	99189.47	-4.10713	259634.7	519.5831	939.9335
#3	527.4298	555.4160	95444.80	-1.04331	249707.8	498.3140	901.2889
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	506.0000	537.0000	95100.00	.0000000	254100.0	483.0000	.0000000
RANGE	103.0000	110.0000	19495.00	2000.000	52090.00	99.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1029.858	110.5888	502.8286	1042.466	60.52109	43.94412	629.0618
SDEV	23.123	1.8622	11.8784	26.088	.95582	1.31339	11.7396
%RSD	2.245244	1.683894	2.362318	2.502489	1.579310	2.988773	1.866212
#1	1044.917	108.8280	510.0115	1058.342	61.57691	44.89521	636.5011
#2	1041.422	112.5381	509.3565	1056.697	60.27158	42.44556	635.1560
#3	1003.234	110.4002	489.1178	1012.357	59.71477	44.49159	615.5283
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	930.0000	96.00000	481.0000	975.0000	51.00000	51.00000	585.0000
RANGE	190.0000	50.00000	99.99999	199.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	105.2493	49.30978	66.11344	631.4303	627.8745	59.79015	36.02808
SDEV	4.3919	1.34775	1.54217	16.5572	9.5994	3.78260	2.11335
%RSD	4.172893	2.733234	2.332604	2.622175	1.528865	6.326456	5.865834
#1	109.8032	48.95618	67.87286	644.6968	632.4044	64.00440	35.34997
#2	104.9052	50.79909	64.99579	636.7194	634.3705	58.67708	34.33703
#3	101.0396	48.17409	65.47168	612.8748	616.8483	56.68898	38.39726
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	97.00000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1028.455	1051.560	995.3956	1039.528	1027.638	2487.133
SDEV	22.014	25.299	21.9072	32.164	19.864	49.062
%RSD	2.140533	2.405852	2.200851	3.094122	1.932983	1.972637
#1	1039.852	1071.174	1005.134	1061.978	1040.168	2450.467
#2	1042.435	1060.501	1010.745	1053.926	1038.011	2468.066
#3	1003.079	1023.004	970.3077	1002.680	1004.735	2542.867
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	205.0000	205.0000	205.0000	205.0000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/31/10 05:39:02
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	107.1006	51562.13	1014.407	1012.389	51214.68	1018.628	1020.845
SDEV	.7902	118.22	1.930	4.551	235.30	4.096	4.502
%RSD	.7378248	.2292730	.1902703	.4495705	.4594445	.4020721	.4410522
#1	107.1720	51578.25	1014.985	1011.998	51132.94	1016.878	1018.715
#2	107.8526	51671.46	1015.981	1017.123	51479.94	1023.308	1026.017
#3	106.2771	51436.68	1012.254	1008.046	51031.14	1015.698	1017.802
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1030.896	1072.712	25473.80	51228.65	48332.61	992.0371	51970.96
SDEV	3.791	2.007	62.98	56.26	148.67	3.7925	294.24
%RSD	.3677355	.1870810	.2472436	.1098178	.3076006	.3822895	.5661711
#1	1029.394	1074.349	25442.57	51280.29	48271.70	991.2427	52043.57
#2	1035.207	1073.313	25546.29	51236.95	48502.06	996.1639	52222.11
#3	1028.086	1070.473	25432.53	51168.70	48224.06	988.7048	51647.21
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1022.268	1034.133	1018.887	1120.511	1019.539	1044.385	1016.651
SDEV	3.356	14.478	3.726	4.049	4.482	9.067	10.569
%RSD	.3283101	1.399991	.3656748	.3613704	.4396011	.8681539	1.039602
#1	1020.146	1027.247	1017.994	1120.614	1017.727	1042.593	1004.655
#2	1026.138	1050.769	1022.978	1124.508	1024.644	1054.214	1024.594
#3	1020.522	1024.385	1015.688	1116.411	1016.247	1036.348	1020.705
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1024.798	1018.321	1020.142	1018.369	1015.789	1051.062	1041.047
SDEV	7.061	10.544	2.909	11.581	10.203	9.067	9.214
%RSD	.6889980	1.035469	.2851905	1.137194	1.004447	.8626116	.8851011
#1	1017.227	1019.160	1017.005	1004.997	1004.480	1047.163	1040.307
#2	1031.204	1028.420	1022.752	1025.164	1024.304	1061.425	1050.609
#3	1025.963	1007.382	1020.668	1024.945	1018.583	1044.597	1032.225
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1033.071	1044.450	1027.742	1049.458	1038.389	2555.089
SDEV	5.087	5.445	2.556	10.024	3.279	5.948
%RSD	.4924595	.5213678	.2487150	.9551738	.3158016	.2328059
#1	1030.812	1047.285	1025.785	1046.316	1035.134	2553.000
#2	1038.897	1047.893	1030.634	1060.677	1041.692	2550.467
#3	1029.505	1038.172	1026.807	1041.381	1038.342	2561.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/31/10 05:46:03
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.143352	-17.1181	-.353832	-.170899	3.954177	-.032302	-.126191
SDEV	.634615	16.3188	.124082	.172939	73.00017	.071412	.054708
%RSD	442.6959	95.33038	35.06812	101.1938	1846.153	221.0740	43.35361
#1	.5780799	-30.4679	-.471216	-.304457	78.05884	-.110250	-.071810
#2	-.392768	1.073739	-.223991	.0244476	1.692640	.0299696	-.181221
#3	-.615369	-21.9603	-.366291	-.232688	-67.8889	-.016627	-.125541
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.088655	.1946691	-5.99734	1.362616	8.767583	-.163560	-10.4841
SDEV	.164496	.4302019	1.75656	3.836730	13.93923	.097076	61.1285
%RSD	185.5452	220.9913	29.28901	281.5709	158.9861	59.35184	583.0613
#1	.0996299	.6398831	-4.24192	-2.91498	-4.84677	-.219361	-13.7600
#2	-.204485	.1628816	-7.75504	2.502858	23.01044	-.051467	-69.9086
#3	-.161111	-.218757	-5.99505	4.499972	8.139073	-.219853	52.21652
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0429651	1.099612	-.272177	.0564393	-1.94303	.9256604	4.370062
SDEV	.1446578	1.200679	.146133	.0588383	.83382	3.210760	2.345538
%RSD	336.6866	109.1912	53.69021	104.2506	42.91351	346.8615	53.67288
#1	-.015027	1.537546	-.140509	.0556998	-.983250	3.615120	6.922433
#2	-.063698	-.258562	-.246621	.1156438	-2.35679	1.790927	3.878478
#3	.2076209	2.019851	-.429402	-.002026	-2.48906	-2.62907	2.309275
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1448626	-3.15299	-1.34369	4.441282	4.329784	2.131698	.3188252
SDEV	.3379631	2.56773	1.38503	2.031553	2.741957	4.839818	5.315074
%RSD	233.2991	81.43781	103.0767	45.74250	63.32779	227.0405	1667.081
#1	.5337632	-2.18077	-.390112	6.707294	7.025118	6.108810	2.365422
#2	-.077628	-1.21334	-2.93237	2.782824	4.420765	-3.25697	4.306374
#3	-.021547	-6.06486	-.708571	3.833728	1.543469	3.543256	-5.71532
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.470579	-5.14466	1.389932	-4.43514	.3052967	2570.955
SDEV	5.791538	2.34081	1.647116	6.77311	.5731596	1.286
%RSD	166.8753	45.49975	118.5033	152.7147	187.7386	.0500379
#1	2.884747	-5.87576	3.143419	3.240500	.7225549	2569.933
#2	9.532768	-2.52556	1.151119	-6.97356	-.348230	2572.400
#3	-2.00578	-7.03267	-.124741	-9.57234	.5415648	2570.533
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003173-01 OPERATOR:
RUN TIME: 03/31/10 05:53:03
COMMENT: SDG:1003173 CLIENTID:MW-3 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4958031	1718.451	127.6266	-.157916	32898.44	.1202236	.9565268
SDEV	.0333694	208.093	1.6781	.078056	490.37	.1161567	.3113688
%RSD	6.730376	12.10932	1.314847	49.42896	1.490570	96.61718	32.55203
#1	.5332535	1582.987	125.7390	-.231962	32335.83	.0073891	.8449596
#2	.4849274	1614.311	128.9496	-.165398	33235.14	.2394393	.7163119
#3	.4692283	1958.054	128.1912	-.076389	33124.35	.1138423	1.308309
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.888556	3.129693	1859.742	2072.245	13743.27	21.82669	7442.296
SDEV	.154209	.236894	100.812	29.741	183.67	.34077	194.319
%RSD	5.338630	7.569239	5.420752	1.435211	1.336448	1.561242	2.611004
#1	2.852278	2.871224	1775.101	2038.093	13533.46	21.43321	7232.961
#2	3.057670	3.181375	1832.853	2086.190	13875.00	22.02167	7477.006
#3	2.755720	3.336479	1971.273	2092.451	13821.34	22.02520	7616.920
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.268621	-4.08625	4.589150	6.464127	1.332099	-3.29960	1.507787
SDEV	.526963	3.17869	.308029	.201331	.659340	1.40263	1.973917
%RSD	16.12186	77.78974	6.712116	3.114586	49.49628	42.50914	130.9149
#1	2.864825	-1.02800	4.266582	6.276624	2.090506	-4.87175	.3064100
#2	3.076310	-7.37304	4.620650	6.438857	1.010718	-2.17642	3.785934
#3	3.864729	-3.85772	4.880219	6.676900	.8950742	-2.85064	.4310160
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.692433	.4395589	1.772378	-.971649	2.740915	-4.22111	-2.84427
SDEV	1.394356	2.191857	.384658	5.090891	.713232	3.18945	.64165
%RSD	201.3707	498.6493	21.70293	523.9432	26.02169	75.55950	22.55940
#1	-.226508	2.878993	1.691589	-2.95404	1.929514	-7.90233	-3.36341
#2	-2.26009	-1.36420	2.191014	4.812225	3.268771	-2.28520	-2.12689
#3	.4093013	-.196113	1.434531	-4.77313	3.024459	-2.47581	-3.04250
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	7.083824	-3.93760	-.422597	26.17474	14.53848	2566.444
SDEV	4.814322	2.12196	.756493	5.19589	.48805	28.729
%RSD	67.96220	53.88963	179.0105	19.85076	3.356942	1.119410
#1	2.327812	-5.56549	-1.12094	23.79463	15.06958	2594.400
#2	6.969250	-4.70957	-.527866	22.59526	14.43616	2537.000
#3	11.95441	-1.53772	.3810173	32.13434	14.10971	2567.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032610-DUP1 OPERATOR:
RUN TIME: 03/31/10 06:00:03
COMMENT: SDG:1003173 CLIENTID:MW-3D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.425031	1102.672	124.8739	-.162386	32372.86	-.092281	.4419077
SDEV	.105867	26.500	1.4449	.086782	339.72	.177693	.1012330
%RSD	24.90810	2.403246	1.157094	53.44172	1.049409	192.5562	22.90817
#1	-.512114	1076.557	123.3859	-.260175	32069.09	-.111628	.5587847
#2	-.307191	1129.540	126.2715	-.094542	32739.70	.0942936	.3851834
#3	-.455788	1101.918	124.9642	-.132442	32309.79	-.259508	.3817550
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.739807	2.561023	1512.440	2023.858	13443.25	20.73438	7266.884
SDEV	.158725	.113809	30.422	25.578	172.07	.23783	86.838
%RSD	9.123155	4.443883	2.011458	1.263841	1.279962	1.147032	1.194976
#1	1.655860	2.620721	1479.006	1995.570	13261.07	20.48699	7179.292
#2	1.922878	2.632562	1538.492	2045.356	13603.01	20.96133	7352.946
#3	1.640684	2.429786	1519.822	2030.648	13465.67	20.75480	7268.414
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.273667	1.580427	3.764580	6.691780	1.334690	-2.80187	.2615719
SDEV	.375677	2.852880	.216448	.186260	.118524	1.74585	1.247398
%RSD	11.47573	180.5132	5.749593	2.783410	8.880238	62.30997	476.8852
#1	3.384549	-.719210	3.989254	6.505147	1.234570	-2.34972	-.930205
#2	2.855028	.6875327	3.747062	6.692529	1.303942	-4.72932	1.557998
#3	3.581422	4.772959	3.557423	6.877664	1.465557	-1.32659	.1569222
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.474675	.9319905	1.530495	-4.63308	2.700571	6.265188	-7.33327
SDEV	1.832870	1.426836	.888466	3.80041	1.389456	1.621358	3.26509
%RSD	386.1314	153.0955	58.05088	82.02753	51.45045	25.87884	44.52442
#1	.2108211	1.958008	.8682188	-8.96607	3.077103	4.734276	-5.89100
#2	.9166423	1.535372	1.183095	-3.06828	3.862956	7.963935	-11.0711
#3	-2.55149	-.697408	2.540171	-1.86490	1.161655	6.097354	-5.03765
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	5.145290	-4.87969	-1.04204	4.324230	13.07043	2605.267
SDEV	2.786876	1.32489	.26435	.905899	.74028	32.358
%RSD	54.16363	27.15119	25.36892	20.94937	5.663753	1.242007
#1	6.971655	-4.58718	-1.32639	3.570402	12.96604	2638.933
#2	6.526661	-3.72549	-.996011	4.073083	13.85735	2574.400
#3	1.937555	-6.32639	-.803727	5.329205	12.38788	2602.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032610-MS1 OPERATOR:
RUN TIME: 03/31/10 06:07:04
COMMENT: SDG:1003173 CLIENTID:MW-3S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	43.66926	3038.768	2089.788	48.57045	31891.17	50.54433	503.1645
SDEV	.50517	18.866	10.235	.40630	161.32	.33211	3.8783
%RSD	1.156816	.6208568	.4897757	.8365260	.5058590	.6570728	.7707720
#1	44.23037	3060.420	2101.349	49.03013	32077.27	50.77540	507.5843
#2	43.52678	3030.019	2081.880	48.42186	31805.26	50.69385	501.5788
#3	43.25063	3025.864	2086.136	48.25936	31790.99	50.16374	500.3303
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	183.9390	272.2083	2334.705	1932.462	13244.82	510.1592	7164.449
SDEV	1.8898	1.0061	22.976	5.159	83.86	3.2649	39.154
%RSD	1.027400	.3696210	.9841089	.2669429	.6331435	.6399818	.5464972
#1	185.6654	271.7325	2360.445	1938.011	13340.51	513.8791	7161.555
#2	184.2316	271.5283	2327.399	1931.564	13209.83	508.8298	7204.969
#3	181.9199	273.3641	2316.269	1927.812	13184.13	507.7688	7126.822
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	507.6775	53.22155	506.5461	500.2081	21.98359	47.76540	53.34848
SDEV	4.6522	6.57075	3.1175	3.1210	.54532	5.63544	1.35628
%RSD	.9163691	12.34604	.6154340	.6239433	2.480579	11.79817	2.542299
#1	513.0486	60.80755	510.0194	503.7872	21.47634	53.93442	54.87374
#2	505.0761	49.54789	505.6286	498.7831	21.91410	46.47410	52.27815
#3	504.9081	49.30921	503.9904	498.0539	22.56032	42.88768	52.89356
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	38.18395	21.60699	22.16005	49.63662	55.19699	53.30238	44.99642
SDEV	.26191	2.06959	.30030	4.21363	2.11485	2.58572	7.29396
%RSD	.6859086	9.578354	1.355139	8.488962	3.831463	4.851034	16.21008
#1	38.22512	19.41915	22.49756	52.87036	55.86925	56.27201	52.76270
#2	38.42283	21.86830	21.92240	51.16805	52.82772	51.54944	43.93560
#3	37.90389	23.53352	22.06020	44.87143	56.89400	52.08569	38.29096
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.598919	-4.12996	-.746679	11.56798	14.43205	2617.044
SDEV	3.103295	1.54055	.710396	8.54297	.23001	17.637
%RSD	119.4071	37.30186	95.14075	73.85010	1.593751	.6739431
#1	-.493789	-4.72203	-.818112	17.88739	14.69762	2598.066
#2	5.712694	-2.38121	-.003265	14.96808	14.30253	2620.133
#3	2.577852	-5.28664	-1.41866	1.848470	14.29601	2632.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: SDI1003173-01 OPERATOR:
RUN TIME: 03/31/10 06:14:04
COMMENT: SDG:1003173 CLIENTID:MW-3L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3457886	1175.091	29.77204	-.604167	6688.242	-.247761	.2013732
SDEV	.4020201	277.196	.30131	.030987	82.076	.063067	.4065443
%RSD	116.2618	23.58934	1.012042	5.128882	1.227164	25.45473	201.8860
#1	-.092779	1487.701	30.11992	-.621991	6679.823	-.192976	-.195859
#2	.6968456	1078.321	29.59397	-.622123	6774.202	-.316703	.6166304
#3	.4332990	959.2527	29.60222	-.568386	6610.700	-.233603	.1833479
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7500160	1.204714	872.7678	330.6578	2875.726	4.779804	1601.870
SDEV	.1207842	.250199	99.3509	7.0045	48.650	.055907	49.980
%RSD	16.10422	20.76831	11.38343	2.118355	1.691763	1.169656	3.120123
#1	.8869414	1.009962	984.3804	330.7390	2929.220	4.809500	1582.700
#2	.7045183	1.117284	839.9304	337.6213	2863.834	4.715315	1658.597
#3	.6585882	1.486896	793.9925	323.6130	2834.125	4.814597	1564.311
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9553710	-1.47110	1.066256	1.798215	-.454656	2.467326	-1.68884
SDEV	.8286520	2.63865	.066935	.080392	.720095	2.927625	1.47439
%RSD	86.73614	179.3658	6.277558	4.470644	158.3825	118.6558	87.30182
#1	.2042372	-4.48608	1.099650	1.852056	-.431964	5.846802	-.147586
#2	1.844273	.4170661	1.109924	1.836782	-1.18583	.7044942	-3.08574
#3	.8176030	-.344290	.9891943	1.705806	.2538251	.8506807	-1.83319
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-3.02337	.6330429	-1.00260	-1.70343	-1.68626	10.45509	-1.52528
SDEV	1.45561	3.143863	1.14927	1.83553	1.86622	1.40582	5.01266
%RSD	48.14538	496.6272	114.6290	107.7549	110.6718	13.44631	328.6379
#1	-4.23397	3.356722	-2.32880	.1086610	-.280259	9.021092	4.257295
#2	-1.40830	-2.80727	-.381033	-1.65742	-3.80353	10.51325	-4.19724
#3	-3.42784	1.349678	-.297973	-3.56153	-.975007	11.83094	-4.63591
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	6.583363	-2.95370	-.733241	18.80041	2.496446	2574.844
SDEV	.787088	2.12328	.549811	1.67842	.048995	13.633
%RSD	11.95572	71.88557	74.98367	8.927551	1.962598	.5294617
#1	6.779708	-3.04144	-1.36144	18.97451	2.459525	2559.600
#2	7.253691	-.787905	-.339688	20.38499	2.477784	2579.066
#3	5.716688	-5.03175	-.498591	17.04173	2.552030	2585.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 0032610-PS1 OPERATOR:
RUN TIME: 03/31/10 06:21:05
COMMENT: SDG:1003173 CLIENTID:MW-3A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	18.98016	1968.071	126.7042	9.690224	32518.02	10.25806	102.7107
SDEV	.48625	394.334	.6633	.057270	144.18	.07961	1.0180
%RSD	2.561889	20.03658	.5235192	.5910119	.4433805	.7760603	.9911209
#1	19.50211	2110.357	127.3377	9.723660	32541.11	10.17166	102.9281
#2	18.53997	1522.341	126.7602	9.722916	32649.26	10.32844	103.6023
#3	18.89839	2271.515	126.0146	9.624095	32363.69	10.27408	101.6015
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.65503	57.08206	1855.637	2030.835	13613.32	51.13366	7243.112
SDEV	.51104	.38859	144.533	13.602	69.66	.35591	232.841
%RSD	2.359903	.6807481	7.788872	.6697561	.5117025	.6960385	3.214658
#1	22.23516	57.40017	1915.237	2026.080	13687.37	51.45956	7187.392
#2	21.27144	56.64896	1690.834	2046.175	13603.48	51.18753	7498.758
#3	21.45849	57.19707	1960.840	2020.249	13549.09	50.75388	7043.185
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	85.95109	51.66333	107.0801	121.6059	20.28690	69.88585	38.03547
SDEV	.84867	3.10038	.6777	.6766	.99824	.39201	2.80412
%RSD	.9873840	6.001127	.6328953	.5564206	4.920623	.5609301	7.372372
#1	85.87058	50.77526	107.4396	122.0029	21.41981	70.28258	40.13536
#2	86.83714	49.10390	107.5024	121.9903	19.53639	69.49874	34.85107
#3	85.14555	55.11085	106.2984	120.8246	19.90449	69.87621	39.11998
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.75314	17.68843	21.57892	38.45321	37.82226	79.80766	64.92766
SDEV	1.13855	1.98495	1.25065	7.38807	1.46177	2.13910	1.21515
%RSD	5.763911	11.22176	5.795699	19.21314	3.864836	2.680325	1.871544
#1	19.23624	19.29791	22.47389	45.87336	37.26599	78.63451	66.10815
#2	18.96473	18.29693	20.14991	31.09764	36.72028	78.51181	64.99422
#3	21.05845	15.47046	22.11296	38.38863	39.48049	82.27667	63.68059
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	6.568790	-2.48392	-.942637	29.65721	13.87858	2595.800
SDEV	.511689	1.08159	.264170	10.20123	.07128	17.518
%RSD	7.789694	43.54355	28.02460	34.39713	.5136177	.6748762
#1	6.288868	-1.23502	-.644467	36.48151	13.81141	2590.066
#2	6.258132	-3.11257	-1.03598	17.93021	13.95336	2581.867
#3	7.159370	-3.10417	-1.14746	34.55990	13.87097	2615.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003173-02 OPERATOR:
RUN TIME: 03/31/10 06:28:05
COMMENT: SDG:1003173 CLIENTID:MW-2 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1620796	761.4658	304.4336	-.346327	39987.34	-.183231	.9301472
SDEV	.0619414	5.4785	1.4904	.054228	158.59	.192373	.2326219
%RSD	38.21664	.7194663	.4895807	15.65803	.3966128	104.9895	25.00915
#1	.1546059	764.8412	306.1545	-.374202	40142.18	.0052044	.8958213
#2	.2274188	764.4114	303.5887	-.283831	39994.58	-.175583	1.178025
#3	.1042142	755.1446	303.5575	-.380948	39825.24	-.379314	.7165954
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.786110	.6810080	1603.960	5184.637	8273.580	54.97939	5487.978
SDEV	.183697	.1916734	4.521	25.064	55.622	.40846	104.877
%RSD	10.28475	28.14554	.2818544	.4834316	.6722829	.7429264	1.911026
#1	1.953217	.7605909	1609.178	5212.908	8337.103	55.44702	5567.208
#2	1.815698	.8200703	1601.498	5165.138	8250.026	54.79873	5369.047
#3	1.589415	.4623630	1601.204	5175.864	8233.610	54.69241	5527.679
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.802638	-.624423	3.903081	6.723687	-2.02138	1.126954	-.731629
SDEV	.308643	3.895999	.226320	.024603	.58987	.562142	.666086
%RSD	11.01258	623.9362	5.798497	.3659217	29.18157	49.88159	91.04144
#1	2.448111	.5341523	4.161984	6.713456	-1.73336	1.431775	-1.10527
#2	2.948376	2.560873	3.742845	6.751755	-1.63085	1.470846	-1.12702
#3	3.011426	-4.96829	3.804414	6.705849	-2.69993	.4782396	.0373978
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.413961	-3.90938	-1.08385	-1.16832	-.518280	12.50718	-4.55930
SDEV	.968033	1.95257	.09682	2.35089	.177469	1.67473	.77545
%RSD	233.8463	49.94575	8.932957	201.2199	34.24191	13.39018	17.00803
#1	.6988391	-2.88282	-1.16476	-2.42235	-.452399	14.42668	-5.06062
#2	-1.06171	-2.68422	-1.11021	-2.62631	-.383173	11.75085	-3.66612
#3	-.879012	-6.16109	-.976584	1.543700	-.719268	11.34401	-4.95115
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	6.595633	-3.07802	-.428929	110.0232	9.419778	2601.066
SDEV	5.185080	.47428	.817331	3.8808	.136386	12.241
%RSD	78.61383	15.40846	190.5514	3.527241	1.447871	.4705956
#1	12.36442	-2.53196	-.581946	110.6341	9.295241	2589.867
#2	5.099009	-3.38713	-1.15894	113.5624	9.565528	2599.200
#3	2.323473	-3.31496	.4540958	105.8733	9.398565	2614.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003173-03 OPERATOR:
RUN TIME: 03/31/10 06:35:05
COMMENT: SDG:1003173 CLIENTID:MW-8 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4236396	6941.295	231.9825	-.053211	21725.74	6.930370	9.283695
SDEV	.5731578	113.760	3.5158	.047357	288.06	.016657	.137810
%RSD	135.2937	1.638887	1.515538	88.99824	1.325877	.2403438	1.484436
#1	1.021192	6857.741	229.3130	-.023015	21553.94	6.942233	9.440943
#2	.3712545	6895.292	230.6685	-.107791	21565.00	6.911328	9.183939
#3	-.121527	7070.852	235.9661	-.028826	22058.30	6.937551	9.226203
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	29.96859	42.15098	9621.268	6731.139	5289.233	313.7761	2299.649
SDEV	.37444	.09638	139.397	87.321	76.495	4.5933	43.515
%RSD	1.249433	.2286433	1.448840	1.297267	1.446233	1.463871	1.892250
#1	30.26841	42.04763	9535.213	6666.394	5242.060	310.6132	2325.303
#2	29.54890	42.23839	9546.493	6696.572	5248.148	311.6705	2249.406
#3	30.08847	42.16693	9782.098	6830.452	5377.491	319.0448	2324.238
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	14.07672	3.286596	19.45979	636.7397	9.772196	-1.72275	-.913491
SDEV	.44776	4.955136	.12924	9.6092	.455083	4.34327	1.601385
%RSD	3.180832	150.7680	.6641617	1.509129	4.656912	252.1124	175.3040
#1	14.45630	-2.28049	19.41525	631.0721	9.247590	-4.43896	-2.59995
#2	13.58291	4.926004	19.35870	631.3123	10.06080	-4.01576	.5864915
#3	14.19094	7.214274	19.60541	647.8346	10.00820	3.286466	-.727012
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.468709	9.260659	10.02214	-5.61927	1.431267	9.653139	-7.40677
SDEV	1.873312	2.831272	.99931	4.49264	4.150841	10.24541	2.25017
%RSD	75.88223	30.57312	9.971025	79.95066	290.0116	106.1355	30.37998
#1	.6436032	6.660864	10.53321	-1.08646	-3.36014	.5406304	-6.92960
#2	2.375758	8.843903	10.66254	-5.70070	3.720806	7.675630	-9.85726
#3	4.386766	12.27721	8.870651	-10.0706	3.933138	20.74316	-5.43345
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	5.111564	-2.44237	-.903044	220.3578	13.99688	2636.955
SDEV	2.227585	1.56204	.124847	3.5742	.73670	26.967
%RSD	43.57933	63.95610	13.82516	1.622006	5.263301	1.022649
#1	7.680249	-3.54088	-.774327	224.4062	14.13092	2648.533
#2	3.710905	-3.13205	-.911182	219.0286	13.20236	2656.200
#3	3.943538	-.654188	-1.02362	217.6386	14.65735	2606.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003173-04 OPERATOR:
RUN TIME: 03/31/10 06:42:06
COMMENT: SDG:1003173 CLIENTID:MW-9 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.537345	-20.6236	603.8893	-.322387	37191.24	-.087849	6.827084
SDEV	.135256	4.3574	1.7772	.051847	176.89	.207062	.153614
%RSD	25.17118	21.12813	.2942931	16.08238	.4756102	235.7018	2.250066
#1	-.523626	-25.5711	605.1782	-.381299	37365.38	.0330836	6.786840
#2	-.678938	-18.9423	601.8619	-.283701	37011.73	.0303073	6.996813
#3	-.409471	-17.3573	604.6277	-.302161	37196.61	-.326939	6.697597
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.492932	.2782350	67.75848	8338.110	9140.387	702.9217	7334.618
SDEV	.180037	.1397214	5.37887	5.274	22.253	2.1532	110.032
%RSD	36.52365	50.21707	7.938302	.0632543	.2434543	.3063194	1.500171
#1	-.550235	.4372267	61.54993	8342.828	9156.449	704.4963	7326.827
#2	-.291218	.1750052	70.71201	8332.416	9114.986	700.4681	7448.338
#3	-.637343	.2224730	71.01348	8339.086	9149.724	703.8007	7228.689
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.784543	.0724504	.0027436	5.076875	-2.23199	1.145552	-1.69214
SDEV	.143834	3.235503	.3382556	.062383	.89177	.995637	.32700
%RSD	8.059997	4465.815	12328.75	1.228766	39.95392	86.91326	19.32462
#1	1.625096	2.197535	.0060328	5.010614	-1.50500	.4063274	-1.46077
#2	1.904525	-3.65120	.3393427	5.134475	-1.96392	.7526343	-1.54941
#3	1.824007	1.671015	-.337145	5.085535	L-3.22704	2.277695	-2.06624
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.51986	-1.16771	-2.76861	-8.36459	1.634392	9.851993	-3.20583
SDEV	.90373	1.84278	1.04573	1.85196	1.414834	4.398569	1.35931
%RSD	59.46131	157.8120	37.77081	22.14052	86.56635	44.64649	42.40111
#1	-1.82480	.9479359	-2.73491	-9.65620	2.626109	9.626980	-4.20178
#2	-.503111	-2.42272	-1.74014	-9.19479	2.262869	5.570249	-1.65725
#3	-2.23168	-2.02834	-3.83078	-6.24278	.0141993	14.35875	-3.75847
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	6.949229	-.187564	-1.13060	-4.71265	1.744052	2587.733
SDEV	3.726293	2.292476	.49840	.26918	.118492	3.837
%RSD	53.62167	1222.239	44.08292	5.711921	6.794043	.1482874
#1	10.39511	2.162065	-.557906	-4.68620	1.631137	2587.533
#2	7.457804	-.306499	-1.46614	-4.99408	1.867427	2591.666
#3	2.994770	-2.41826	-1.36777	-4.45767	1.733594	2584.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003173-05 OPERATOR:
RUN TIME: 03/31/10 06:49:07
COMMENT: SDG:1003173 CLIENTID:MW-12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6496520	-28.2702	329.6639	-.317714	51507.21	-.067334	.6812487
SDEV	.3486917	6.4037	.5967	.072297	87.98	.171723	.2940161
%RSD	53.67361	22.65170	.1809931	22.75540	.1708155	255.0301	43.15842
#1	.3753557	-21.2201	329.9793	-.237521	51601.93	-.081614	.6867018
#2	.5315414	-29.8642	330.0366	-.337720	51491.64	.1110822	.3845439
#3	1.042059	-33.7264	328.9757	-.377903	51428.05	-.231472	.9725004
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0677938	.6362694	-18.5206	3149.679	22795.65	27.45702	9950.683
SDEV	.2767301	.2921986	6.3859	11.375	62.84	.08445	130.840
%RSD	408.1936	45.92372	34.48007	.3611402	.2756573	.3075860	1.314887
#1	.2694864	.6402287	-25.8944	3161.882	22813.26	27.46268	9874.073
#2	-.247691	.3421113	-14.8021	3139.370	22847.81	27.53850	9876.216
#3	.1815858	.9264682	-14.8655	3147.786	22725.89	27.36987	10101.76
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.447915	-2.07897	.9041041	2.098837	-1.90002	.0588313	-1.48121
SDEV	.430788	4.54672	.1066436	.072705	.41973	1.919887	.32504
%RSD	12.49417	218.7005	11.79550	3.464053	22.09101	3263.380	21.94397
#1	3.215059	-4.72149	.8583607	2.015311	-1.92097	.6299449	-1.85653
#2	3.183670	3.171087	.8279631	2.147911	-1.47020	1.628359	-1.29172
#3	3.945016	-4.68651	1.025988	2.133290	-2.30888	-2.08181	-1.29539
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.496041	-4.59202	-.560910	-3.86095	-.297812	5.014167	-2.41981
SDEV	.799035	1.44756	1.076294	3.69755	1.704838	2.607949	3.04258
%RSD	161.0823	31.52331	191.8837	95.76771	572.4537	52.01161	125.7363
#1	.3237404	-2.96217	-1.40584	-5.59203	.0037358	7.985191	-3.04685
#2	-1.27257	-5.72805	.6508445	.3845828	-2.13330	3.103026	.8874399
#3	-.539292	-5.08585	-.927730	-6.37541	1.236131	3.954284	-5.10000
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	7.201813	-.732593	-1.70124	8.164350	9.027733	2592.578
SDEV	1.345969	2.115959	.69112	2.097331	.245595	5.594
%RSD	18.68930	288.8314	40.62438	25.68889	2.720454	.2157738
#1	7.073570	.3133974	-2.37252	6.875362	9.193196	2590.400
#2	8.607313	-3.16784	-.991861	7.033263	9.144460	2588.400
#3	5.924556	.6566646	-1.73933	10.58442	8.745544	2598.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1003173-06 OPERATOR:
RUN TIME: 03/31/10 06:56:07
COMMENT: SDG:1003173 CLIENTID:MW-17 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.443595	216.0225	521.4442	-.340880	25665.55	-.099130	3.657476
SDEV	1.251699	31.5055	9.1131	.242862	295.08	.283435	.429949
%RSD	282.1717	14.58435	1.747668	71.24552	1.149710	285.9214	11.75536
#1	-1.69823	179.6771	510.9286	-.621260	25354.53	-.394810	3.178268
#2	-.437703	232.8328	526.3628	-.205391	25700.55	-.072805	3.784711
#3	.8051480	235.5575	527.0412	-.195989	25941.57	.1702237	4.009448
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	6000.000	700000.0	50000.00	4000.000	700000.0	30000.00	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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8371329	1.999690	454.9891	15418.88	9093.353	211.8864	4922.532
SDEV	.5972373	.521449	37.2081	328.21	178.237	3.3334	45.996
%RSD	71.34319	26.07647	8.177805	2.128621	1.960080	1.573212	.9343958
#1	.2045710	1.450974	413.2050	15040.04	8887.640	208.0396	4873.425
#2	.9155244	2.059360	467.2204	15599.15	9190.735	213.6953	4964.607
#3	1.391303	2.488738	484.5420	15617.44	9201.684	213.9244	4929.564
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	600000.0	700000.0	50000.00	600000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.056665	-1.30570	1.137026	3.636546	-1.99388	-1.62817	-2.45197
SDEV	.319511	4.69131	.533028	.118421	1.05888	2.51657	1.07925
%RSD	7.876194	359.2957	46.87909	3.256425	53.10663	154.5639	44.01543
#1	3.903006	.4131410	.5476184	3.525363	-2.12825	-.873652	-2.16623
#2	4.423974	-6.61400	1.278214	3.623198	-.874225	.4248209	-3.64534
#3	3.843014	2.283771	1.585246	3.761075	-2.97916	-4.43569	-1.54435
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	10000.00	60000.00	40000.00	30000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.15093	-1.68599	-2.15240	-5.76791	-.801118	1.135730	-3.01268
SDEV	1.70591	1.64751	.93494	2.50598	.829059	2.282627	3.09551
%RSD	148.2205	97.71753	43.43704	43.44690	103.4877	200.9833	102.7494
#1	-2.73031	-2.73652	-1.82964	-3.77432	-1.36790	3.446595	-3.03504
#2	-1.38070	.2128007	-1.42161	-8.58106	-1.18587	1.078166	.0939536
#3	.6582227	-2.53425	-3.20596	-4.94836	.1504097	-1.11757	-6.09695
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	7.074569	-1.05009	-.113920	24.21137	3.229907	2624.044
SDEV	3.168088	2.81985	.446383	15.05517	1.031920	58.808
%RSD	44.78137	268.5329	391.8383	62.18225	31.94890	2.241114
#1	5.893805	-4.17858	.3981919	7.298794	2.067039	2691.933
#2	4.666429	1.295800	-.420610	29.18457	3.586254	2591.400
#3	10.66347	-.267504	-.319342	36.15074	4.036426	2588.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	10000.00	40000.00	20000.00	40000.00	40000.00	
LOW	-20.0000	-10.0000	-10.0000	-30.0000	-50.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/31/10 07:03:08
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	102.8919	51451.25	1012.824	997.3749	50477.06	1009.788	1012.471
SDEV	.9157	302.22	5.462	8.3088	530.01	7.421	8.198
%RSD	.8899531	.5873831	.5392638	.8330707	1.050004	.7349435	.8096883
#1	102.0444	51157.87	1007.866	988.8800	49918.23	1001.829	1004.038
#2	103.8632	51761.59	1018.679	1005.484	50972.57	1016.519	1020.412
#3	102.7681	51434.31	1011.927	997.7606	50540.36	1011.017	1012.962
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1026.587	1046.314	25526.38	51766.98	48102.93	982.3341	50798.87
SDEV	8.433	4.200	196.72	247.02	352.92	7.7954	380.79
%RSD	.8214525	.4013715	.7706626	.4771742	.7336730	.7935612	.7495968
#1	1017.264	1043.235	25304.80	51523.61	47726.04	974.2571	50623.25
#2	1033.681	1051.098	25680.47	52017.49	48425.60	989.8135	51235.77
#3	1028.817	1044.609	25593.88	51759.85	48157.16	982.9316	50537.58
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1019.376	1023.707	1013.107	1112.471	1017.976	1037.269	1021.388
SDEV	7.773	3.695	7.331	8.012	5.305	4.130	16.613
%RSD	.7625021	.3609516	.7236127	.7201880	.5211492	.3981985	1.626532
#1	1010.845	1019.609	1005.410	1104.035	1011.851	1037.855	1002.514
#2	1026.056	1026.784	1020.007	1119.978	1020.957	1032.877	1027.859
#3	1021.228	1024.727	1013.903	1113.401	1021.120	1041.075	1033.793
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1024.233	1014.040	1019.935	1005.795	1029.169	1054.938	1028.442
SDEV	8.251	3.386	6.418	22.789	13.673	8.610	10.455
%RSD	.8055742	.3338700	.6292748	2.265766	1.328505	.8161698	1.016541
#1	1016.635	1010.394	1012.572	980.6296	1013.434	1055.401	1029.090
#2	1033.010	1017.085	1022.884	1011.716	1035.913	1063.308	1017.678
#3	1023.053	1014.642	1024.349	1025.039	1038.159	1046.106	1038.557
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1031.079	1042.204	1017.490	1030.029	1050.649	2530.978
SDEV	11.215	9.267	9.818	16.076	8.343	7.011
%RSD	1.087657	.8891954	.9648824	1.560762	.7941188	.2769909
#1	1020.072	1032.958	1006.873	1013.024	1041.306	2538.200
#2	1042.491	1051.493	1026.241	1044.980	1057.355	2524.200
#3	1030.675	1042.160	1019.355	1032.082	1053.285	2530.533
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/31/10 07:10:09
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.252431	5.080977	-.336203	.1689655	6.513697	-.061744	-.199432
SDEV	.798525	12.46848	.155817	.1014098	72.52308	.298289	.451414
%RSD	316.3346	245.3953	46.34618	60.01806	1113.393	483.1094	226.3495
#1	.5457228	19.44350	-.156396	.2850224	10.44157	.2344420	.3105359
#2	-1.05133	-2.96714	-.420525	.1244300	76.99302	-.362092	-.547819
#3	-.251688	-1.23342	-.431688	.0974442	-67.8935	-.057580	-.361014
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0036210	-.226585	-1.71365	.8444231	-1.46295	-.179394	-105.054
SDEV	.2897379	.290715	10.06950	8.386387	3.58570	.063799	51.959
%RSD	8001.524	128.3031	587.6058	993.1500	245.1000	35.56348	49.45934
#1	.3343368	.1033597	6.287948	10.39937	2.269810	-.124591	-76.6917
#2	-.205536	-.338005	-13.0203	-5.29640	-4.88081	-.249431	-73.4478
#3	-.117938	-.445110	1.591416	-2.56970	-1.77785	-.164161	-165.021
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.191947	-.531350	-.068957	-.021226	-2.25864	1.789418	5.264325
SDEV	.308917	2.809958	.330757	.123845	1.44160	.889623	2.118819
%RSD	160.9386	528.8333	479.6545	583.4567	63.82589	49.71580	40.24863
#1	.1551204	2.483180	.0471359	-.050389	-2.57359	1.511681	7.682734
#2	-.436810	-.999232	-.442111	-.127887	-.685608	2.784777	3.734393
#3	-.294152	-3.07800	.1881026	.1145979	Q-3.51673	1.071796	4.375847
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.20805	-1.82279	-2.48099	2.254134	6.762415	7.837027	-1.23460
SDEV	1.15258	2.06280	1.61837	1.671741	3.073289	5.424577	1.93826
%RSD	95.40813	113.1671	65.23086	74.16334	45.44661	69.21727	156.9948
#1	-1.40789	-.465968	-3.63067	2.454365	10.28815	2.534702	.9960894
#2	-2.24764	-.805793	-.630296	.4912951	5.348820	13.37610	-2.50764
#3	.0313817	-4.19662	-3.18200	3.816741	4.650273	7.600277	-2.19226
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.938499	-7.42190	.7509524	-.322614	-.051839	2556.622
SDEV	1.654131	3.93818	.9383818	7.598420	.037779	45.387
%RSD	176.2528	53.06162	124.9589	2355.265	72.87645	1.775254
#1	-2.69318	-2.87464	.7521855	8.071438	-.075430	2504.533
#2	.5922738	-9.72893	1.688717	-6.73118	-.008266	2587.666
#3	-.714593	-9.66211	-.188045	-2.30810	-.071822	2577.666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

ANALYSIS REPORT QC STANDARD 03/31/10 07:24:06 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/31/10 07:17:09
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.37933	-32.8643	-.433831	4.695918	29.70977	4.916099	50.48219
SDEV	.58761	3.1323	.033820	.074371	40.85258	.106693	.25800
%RSD	5.661350	9.531025	7.795721	1.583736	137.5055	2.170287	.5110703
#1	9.762020	-30.4913	-.437403	4.717971	2.716716	4.831138	50.27468
#2	10.93187	-31.6870	-.465724	4.756768	9.703103	5.035844	50.77106
#3	10.44411	-36.4147	-.398367	4.613014	76.70950	4.881317	50.40081
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.20006	26.40144	-6.43859	-.392549	-9.69773	14.47706	90.92297
SDEV	.49181	.13749	6.86323	2.460368	.81977	.15234	120.4315
%RSD	4.821652	.5207828	106.5952	626.7675	8.453233	1.052276	132.4545
#1	9.784621	26.25830	-13.1608	.5160509	-10.6340	14.45840	61.61290
#2	10.74310	26.41353	-6.71250	-3.17800	-9.10891	14.63787	-12.1481
#3	10.07247	26.53248	.5574937	1.484299	-9.35027	14.33491	223.3041
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.94884	21.45644	50.08185	54.51249	9.076072	38.50504	63.88886
SDEV	.82455	4.45690	.45124	.41368	2.184151	4.58003	.59335
%RSD	2.013621	20.77186	.9010117	.7588720	24.06493	11.89463	.9287299
#1	40.53026	25.05297	49.92801	54.47612	11.29802	43.78009	63.23413
#2	41.89873	22.84607	50.58990	54.94315	8.998404	36.19477	64.04139
#3	40.41753	16.47028	49.72764	54.11820	6.931791	35.54027	64.39106
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.42848	11.13895	8.040310	57.71325	66.96735	44.44029	35.53718
SDEV	2.30246	2.94322	1.805290	2.31729	1.95408	3.31642	7.55281
%RSD	22.07853	26.42274	22.45299	4.015185	2.917963	7.462650	21.25327
#1	8.754007	14.11630	9.885109	59.35987	65.16365	42.97894	44.17536
#2	Q13.05413	11.06947	7.958512	58.71650	66.69511	48.23642	30.17824
#3	9.477312	8.231094	6.277310	55.06337	69.04327	42.10551	32.25792
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	55.89497	49.16381	50.03059	52.18183	51.57077	2586.044
SDEV	2.19092	1.85101	.58855	5.38923	.25037	24.303
%RSD	3.919707	3.764983	1.176371	10.32779	.4854835	.9397681
#1	53.92019	47.12062	49.75497	46.04219	51.67461	2578.066
#2	58.25178	50.72878	50.70638	56.13050	51.28519	2566.733
#3	55.51295	49.64204	49.63044	54.37281	51.75251	2613.333
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/31/10 07:24:10
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.214050	261685.0	2.598650	.7977668	257331.7	-1.63287	4.920427
SDEV	.136860	2216.5	.042440	.0429622	2188.8	.07983	.131825
%RSD	63.93831	.8470250	1.633144	5.385313	.8505912	4.888821	2.679128
#1	-.357413	263308.7	2.578200	.7489582	258787.9	-1.69005	4.822809
#2	-.199953	262586.5	2.647442	.8298551	258392.6	-1.54167	5.070384
#3	-.084784	259159.7	2.570306	.8144871	254814.5	-1.66690	4.868090
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	243900.0	2.000000	.0000000	234100.0	.0000000	3.000000
RANGE	20.00000	49997.06	400.0000	10.00000	47990.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.48461	25.29964	103097.3	-.871155	268220.7	18.42561	871.9111
SDEV	.37268	.41779	776.6	3.273123	2140.2	.19544	28.0527
%RSD	.7848476	1.651371	.7532746	375.7222	.7979222	1.060699	3.217379
#1	47.52845	25.70497	103480.8	-4.16132	269328.1	18.62927	853.7853
#2	47.83344	25.32354	103607.6	-.836812	269580.3	18.40799	857.7242
#3	47.09195	24.87042	102203.6	2.384661	265753.7	18.23958	904.2236
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	36.00000	15.00000	94900.00	.0000000	248800.0	19.00000	.0000000
RANGE	20.00000	50.00000	19454.00	2000.000	51003.00	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.40153	.9316247	.8785217	29.05938	10.23356	-5.42669	3.560922
SDEV	.39278	4.154319	.2389020	.40352	1.19089	1.11201	1.481629
%RSD	1.753363	445.9219	27.19364	1.388608	11.63708	20.49157	41.60801
#1	22.02533	2.341130	.6026883	29.47068	10.77710	-5.07744	4.369457
#2	22.80902	-3.74406	1.013102	29.04336	8.867876	-4.53123	4.462383
#3	22.37023	4.197808	1.019775	28.66411	11.05569	-6.67141	1.850926
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	1.000000	39.00000	5.000000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7714421	2.690526	13.99333	5.790280	2.443050	9.251920	-12.7599
SDEV	1.196489	5.405133	4.29677	5.386634	4.908404	3.090594	.2240
%RSD	155.0977	200.8950	30.70588	93.02891	200.9129	33.40490	1.755207
#1	1.944252	3.847107	14.23079	3.183418	4.956705	9.817619	-12.5187
#2	.8174719	7.423752	9.582748	2.203002	5.585494	12.02059	-12.7996
#3	-.447398	-3.19928	18.16645	11.98442	-3.21305	5.917552	-12.9613
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.0145323	.1272546	-3.82376	.6968511	-3.40244	2500.689
SDEV	2.928356	3.869563	.45541	4.181048	.71553	17.667
%RSD	20150.74	3040.805	11.91001	599.9916	21.02990	.7064958
#1	-.725848	-4.26812	-4.32279	.1625328	-2.82244	2491.333
#2	-2.47257	1.629216	-3.71787	5.119373	-3.18285	2489.666
#3	3.242019	3.020668	-3.43063	-3.19135	-4.20203	2521.066
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/31/10 07:31:10
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	208.3630	248847.0	504.1233	478.0256	245031.5	974.4262	494.6707
SDEV	1.0282	5465.1	11.7166	12.0427	6866.9	23.2704	11.5109
%RSD	.4934564	2.196183	2.324151	2.519268	2.802464	2.388118	2.326981
#1	207.2387	242542.1	490.5960	464.1571	237103.6	947.6652	481.4250
#2	208.5945	252231.4	511.0795	485.8401	249119.1	989.9043	502.2502
#3	209.2556	251767.6	510.6945	484.0797	248871.9	985.7091	500.3368
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	210.0000	248400.0	475.0000	482.0000	234300.0	916.0000	455.0000
RANGE	43.00000	50922.00	400.0000	98.00001	48031.00	187.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	540.1031	545.1006	98414.13	2.035701	255246.2	506.6772	894.1409
SDEV	13.6930	.6125	2424.28	1.645238	6353.5	12.4455	47.7739
%RSD	2.535261	.1123634	2.463350	80.81924	2.489169	2.456295	5.342993
#1	524.4164	544.4200	95627.38	.2061511	247926.6	492.3445	926.7889
#2	549.6627	545.2742	100037.0	3.393611	259335.3	514.7491	839.3082
#3	546.2301	545.6075	99578.03	2.507342	258476.7	512.9380	916.3258
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	506.0000	537.0000	95100.00	.0000000	254100.0	483.0000	.0000000
RANGE	103.0000	110.0000	19495.00	2000.000	52090.00	99.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1026.279	111.2325	498.1839	1024.486	60.38655	45.25153	627.1443
SDEV	26.034	2.9025	12.3949	26.178	1.75787	2.66316	16.0956
%RSD	2.536785	2.609363	2.488027	2.555239	2.911027	5.885228	2.566493
#1	996.2835	109.2714	483.9088	994.2989	58.53645	43.02124	608.5679
#2	1043.004	109.8593	506.2164	1040.945	60.58844	44.53317	635.9251
#3	1039.551	114.5667	504.4264	1038.212	62.03475	48.20019	636.9399
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	930.0000	96.00000	481.0000	975.0000	51.00000	51.00000	585.0000
RANGE	190.0000	50.00000	99.99999	199.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	102.9529	49.21344	65.95862	624.7211	628.3492	58.29288	38.73574
SDEV	4.0312	3.97111	1.82911	16.7892	15.7874	7.33556	3.55544
%RSD	3.915568	8.069151	2.773112	2.687465	2.512522	12.58397	9.178695
#1	100.2858	47.50966	64.03562	605.4491	610.1202	49.99660	39.53403
#2	107.5903	46.37853	67.67655	632.5359	637.6122	63.92060	34.84903
#3	100.9826	53.75214	66.16367	636.1784	637.3151	60.96145	41.82418
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	97.00000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1016.476	1050.400	981.3146	1020.775	1040.873	2488.044
SDEV	20.183	23.174	26.1433	30.887	24.836	53.803
%RSD	1.985549	2.206235	2.664106	3.025821	2.386032	2.162461
#1	994.1993	1023.641	951.1356	985.5535	1012.271	2549.933
#2	1033.544	1063.752	995.7808	1043.243	1056.980	2452.400
#3	1021.683	1063.808	997.0275	1033.528	1053.369	2461.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	205.0000	205.0000	205.0000	205.0000	200.0000	

ANALYSIS REPORT QC STANDARD 03/31/10 07:45:08 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/31/10 07:38:11
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	105.7922	51095.92	1004.911	998.1105	50792.55	1006.127	1007.553
SDEV	.1322	741.66	14.784	13.9136	872.96	14.025	14.724
%RSD	.1249828	1.451499	1.471186	1.393998	1.718669	1.393920	1.461348
#1	105.7423	51392.98	1010.378	1006.170	51222.53	1014.715	1016.065
#2	105.6923	51643.00	1016.183	1006.117	51367.11	1013.722	1016.042
#3	105.9422	50251.78	988.1722	982.0445	49788.01	989.9427	990.5509
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1022.193	1062.601	25292.48	51000.90	47947.08	980.3610	51228.46
SDEV	16.618	.590	403.34	763.40	720.26	13.8214	442.84
%RSD	1.625766	.0555497	1.594709	1.496838	1.502206	1.409825	.8644339
#1	1030.752	1062.865	25504.81	51308.87	48293.16	988.0911	51433.70
#2	1032.788	1061.924	25545.31	51562.21	48428.98	988.5878	51531.44
#3	1003.040	1063.012	24827.33	50131.62	47119.09	964.4040	50720.24
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1014.703	1022.070	1008.264	1108.362	1013.158	1033.107	1016.737
SDEV	15.187	10.453	15.100	17.526	12.264	12.286	12.281
%RSD	1.496724	1.022763	1.497650	1.581214	1.210501	1.189264	1.207880
#1	1020.969	1028.868	1015.648	1117.456	1017.829	1042.076	1008.166
#2	1025.755	1027.310	1018.250	1119.471	1022.401	1038.143	1030.806
#3	997.3854	1010.034	990.8922	1088.159	999.2449	1019.103	1011.238
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1013.393	1008.554	1015.451	1010.138	1020.027	1040.886	1029.219
SDEV	15.110	13.405	12.054	13.706	12.498	18.045	9.415
%RSD	1.491045	1.329173	1.187071	1.356845	1.225258	1.733580	.9148122
#1	1022.549	1017.299	1018.088	996.2297	1014.120	1054.393	1035.922
#2	1021.677	1015.243	1025.968	1023.632	1034.383	1047.872	1033.281
#3	995.9524	993.1204	1002.297	1010.552	1011.577	1020.393	1018.454
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1023.513	1035.017	1014.631	1038.316	1035.545	2567.600
SDEV	15.197	18.707	12.345	14.698	13.622	32.693
%RSD	1.484754	1.807402	1.216662	1.415599	1.315395	1.273275
#1	1028.586	1048.117	1021.727	1042.967	1041.039	2552.333
#2	1035.524	1043.340	1021.790	1050.127	1045.562	2545.333
#3	1006.428	1013.592	1000.377	1021.856	1020.035	2605.133
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/31/10 07:45:12
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.542631	-12.5656	-.345308	-.019006	51.32041	-.029861	.0867063
SDEV	.479910	7.2075	.048467	.041992	86.99674	.013173	.1717102
%RSD	88.44127	57.35883	14.03587	220.9373	169.5169	44.11256	198.0366
#1	-.992674	-19.4855	-.385720	-.062201	1.072193	-.041412	-.110535
#2	-.597626	-13.1099	-.291573	-.016487	151.7756	-.015515	.2028280
#3	-.037593	-5.10137	-.358631	.0216695	1.113437	-.032658	.1678260
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/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.105082	-.310007	-7.85994	2.847167	2.574081	-.213288	36.71534
SDEV	.627136	.295589	9.34477	2.787380	3.336458	.084888	61.80559
%RSD	596.8036	95.34920	118.8911	97.90015	129.6174	39.79955	168.3372
#1	-.764761	-.647912	-16.5562	5.367579	-1.19689	-.306015	30.09020
#2	-.033927	-.099363	-9.04401	3.320490	3.776349	-.139407	101.5666
#3	.4834408	-.182746	2.020434	-.146570	5.142784	-.194442	-21.5108
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	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.377006	-1.91868	.0782174	.0906565	-1.29704	1.066321	4.203984
SDEV	.217005	3.91025	.1761526	.0339085	.99625	2.613499	4.028408
%RSD	57.56009	203.7991	225.2088	37.40325	76.80982	245.0948	95.82359
#1	-.134058	-3.77289	-.068890	.0515046	-.148197	3.347223	8.682128
#2	-.551617	2.573742	.0301188	.1098727	-1.92285	1.637155	3.054748
#3	-.445343	-4.55688	.2734234	.1105922	-1.82006	-1.78541	.8750765
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	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.13909	.1244716	-2.01140	-1.76517	7.179416	7.264312	-2.03270
SDEV	3.67026	2.981418	.43718	2.26718	5.347426	7.240635	.30356
%RSD	322.2089	2395.261	21.73488	128.4400	74.48274	99.67406	14.93387
#1	-5.37626	3.466277	-1.95740	-.601799	13.31245	13.59781	-1.77506
#2	.9043010	-.830119	-2.47307	-.315831	4.732865	8.824286	-1.95569
#3	1.054675	-2.26274	-1.60374	-4.37787	3.492930	-.629159	-2.36735
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.114465	-3.33588	1.200538	-4.58432	.5833206	2595.400
SDEV	1.506598	2.81065	1.465390	5.89584	.6666599	3.188
%RSD	135.1858	84.25511	122.0611	128.6089	114.2871	.1228379
#1	2.780121	-4.62293	1.757473	-11.3453	.2017036	2594.267
#2	-.153139	-.112166	2.305810	-1.89500	1.353104	2599.000
#3	.7164133	-5.27254	-.461669	-.512653	.1951542	2592.933
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

4. Digestion and Distillation Logs

The following logs shall be submitted, as appropriate, for each preparation procedure: digestion logs for ICP-AES, ICP-MS, mercury preparations, and cyanide. The logs shall include: (1) date; (2) sample weights and volumes, with initial sample weight/volume and final volume clearly indicated; (3) sufficient information to unequivocally identify which QC samples (i.e., LCS, PB) correspond to each batch digested; (4) comments describing any significant sample changes or reactions which occur during preparation shall be entered in the log and noted in the SDG Narrative; (5) indication of pH less than 2 or greater than 12, as applicable; (6) identification of the sample preparer(s) [signature (s)].

METALS/MERCURY PREPARATION LOG

Metals Method: ILM05.4 / HW1
Mercury Method: ILM05.4 / CW1
Prepared By: DJD
Case/SDG: 1003173

Environmental Testing Laboratories
CompuChem
A Division Of
Liberty Analytical Corp.

Preparation Date: 3-27-10
Preparation Time: 1530
Batch Number: 32610
Green Water

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (mL)	ICP Final (mL)	HG Initial (mL)	HG Final (mL)	*Description Before	*Description After ICP	pH
0032610-BLK1	PBW	MB	50	50			CS / CL	CS / CL	N/A
0032610-BS1	LCSW	LCS	50				CS / CL	CS / CL	N/A
0032610-DUP1	MW-3D	DUP	50				CS / CL	CS / CL	<2
0032610-MS1	MW-3S	MS	50				CS / CL	CS / CL	<2
1003173-01	MW-3	SAMPLE	50				CS / CL	CS / CL	<2
1003173-02	MW-2	SAMPLE	50				CS / CL	CS / CL	<2
1003173-03	MW-8	SAMPLE	50				BR / CL	BR / CL	<2
1003173-04	MW-9	SAMPLE	50				CS / CL	CS / CL	<2
1003173-05	MW-12	SAMPLE	50				CS / CL	CS / CL	<2
1003173-06	MW-17	SAMPLE	50				CS / CL	CS / CL	<2
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							/	/	
							/	/	
							/	/	

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

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.

Record of Tempature/Time		
Hot Block Temp In:	95°	C
Hot Block Temp Out:	75°	C
Time Hg in water bath:		
Time Hg out water bath:		
Water Bath Temp In:		C
Water Bath Temp Out:		C

MS Reference
ICAP: 0.5 mL of ILM05.3 Matrix Spike
Ref #: 9L15006

HG: 1.0mL 100ppb Hg
Ref#

LCS Reference
ICAP: 5.0 mL of ICV 0307
Ref #: 0404 DD. 3-27-10
OB04003

* 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's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the 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."

Sample Verification Signature: [signature]
This signature corroborates that the sample idenification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: [signature]
Date: 4-7-10

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 **Case/SDG:** 1003173
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	0C02009	CALEDON	68764	10/12
NITRIC ACID (HNO_3)	0B02020	JT BAKER	H20053	02/13
POTASSIUM PERMANGANATE ($KMnO_4$)	9L30017	JT BAKER	H32614	12/12
HYDROCHLORIC ACID (HCL)	0C22006	CALEDON	72079	03/13
POTASSIUM PERSULFATE ($K_2S_2O_8$)	0C02011	JT BAKER	H02H06	05/12
HYDROGEN PEROXIDE (H_2O_2)	0C02013	CALEDON	69862	10/10
STANDARDS				
XCL 20R	0B26007	HIGH PURITY	0925409	09/11/10
XCL LCS 10XR	9L15003	HIGH PURITY	0935232	12/10/10
ERA PPT (540)	0C01027	ERA	540	12/03/10
EPA LCS (0405)	0B26009	EPA	0405	08/05/10
ICV-1 (0307)	0B04003	EPA	0307	03/12/11
ILM05.3 MATRIX SPIKE	9L15006	HIGH PURITY	0916332	06/15/10
SILVER (Ag) 100ppm	9L15009	HIGH PURITY	0934323	12/15/10
TCLP 500	9L21002	HIGH PURITY	0934202	12/10/10
ARSENIC (As) 1000ppm	9F17001	HIGH PURITY	0911221	12/05/10
MERCURY (Hg) 20ppm	9L15007	HIGH PURITY	0916320	06/15/10
ICV-5 (0508) Hg	0C01026	EPA	0508	09/15/10

[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: 3-27-10

ENTERED BY: D. Dickens DATE: 3-27-10

REVIEWED BY: [signature] DATE: 03/27/10

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.

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:**_____
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb-03-27-10-DD	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
$K_2S_2O_8$- 03-15-10-DD Potassium Persulfate	Place in a 1000mL Erlenmeyer to a re-pipettor bottle **(PREPARE AS NEEDED)**
$KmnO_4$- 03-16-10 –DD Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
HNO_3- 03-18-10 - DD Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
HCl- 03-23-10 - JR Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 03-11-10 - DD	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(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: 3-27-10

ENTERED BY: D. Dickens DATE: 3-27-10

REVIEWED BY: _____ DATE: 03/27/10

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.

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:**_____
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV-5- 03-27-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 03-27-10-DD	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRA/CRI- 03-27-10-DD	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- 03-27-10-DD	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- 03-27-10-DD	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- 03-27-10-DD	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- 03-27-10-DD	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[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: 3-27-10

ENTERED BY: D. Dickens DATE: 3-27-10

REVIEWED BY: _____ DATE: 03/27/10

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.

CompuChem
A Division Of
Liberty Analytical Corp.
4/8/2010

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 1003173

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 _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: DRAPER **Work:** 1003173

Project: WATAUGA COUNTY LANDFILL 6520-39 **Sdg:** DRAFT 1003173

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1003173-01	MW-3	Water	3/18/10 1:40 pm	3/19/10 9:30 am
1003173-02	MW-2	Water	3/18/10 12:00 pm	3/19/10 9:30 am
1003173-03	MW-8	Water	3/18/10 11:35 am	3/19/10 9:30 am
1003173-04	MW-9	Water	3/18/10 11:15 am	3/19/10 9:30 am
1003173-05	MW-12	Water	3/18/10 2:25 pm	3/19/10 9:30 am
1003173-06	MW-17	Water	3/18/10 1:30 pm	3/19/10 9:30 am
1003173-07	TRIP BLANK	Water	2/4/10 12:00 am	3/19/10 9:30 am

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 #: 1003173

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 # 1003173
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, refrigerated at 0.4°C, with proper documentation, in sealed shipping containers, on March 19th, 2010. 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 1003173 are included in the sample data sections.

Analysis holding time requirements were met for the samples. The pH values of the samples were equal to 1. There were volatile Project/Target Compound List (TCL) analytes above the Contract Required Quantitation Limit (CRQL) identified in five/7 the samples. All of the system monitoring compounds 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.

In the initial analyses of samples MW-2 and MW-12, the on-column amounts exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The samples were reanalyzed using smaller aliquot of raw samples to bring the on-column amounts into range. We have reported both analyses of the samples MW-2 and MW-12.

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 blank met all quality control criteria. The associated Laboratory Control Sample (VIKLCS) met all accuracy criteria. Sample MW-3 was requested for matrix spike/matrix spike duplicate (MS/MSD) 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.

Preeti Khare
Data Reviewer I
April 8th, 2010

GC and GC/MS Column and Trap Specifications Table

SDG #: 1003173

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'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 ≥ 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 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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0571

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.14	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	6.5	
75-69-4	Trichlorofluoromethane	0.50	U
107-02-8	Acrolein	5.0	U
75-35-4	1,1-Dichloroethene	0.27	J
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	2.5	U
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.34	JB
156-60-5	trans-1,2-Dichloroethene	0.54	
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	19	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	42	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	0.29	J
71-55-6	1,1,1-Trichloroethane	0.082	J
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-dichloropropene	0.50	U
71-43-2	Benzene	0.23	J
107-06-2	1,2-Dichloroethane	0.40	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	3.9	
78-87-5	1,2-Dichloropropane	0.77	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0571

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.056	JB
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	2.8	
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	0.23	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	2.0	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	1.5	
95-50-1	1,2-Dichlorobenzene	0.15	J
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 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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-05D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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	0.15	DJ
74-87-3	Chloromethane	0.84	U
75-01-4	Vinyl Chloride	1.7	D
74-83-9	Bromomethane	0.84	U
75-00-3	Chloroethane	6.3	D
75-69-4	Trichlorofluoromethane	0.84	U
107-02-8	Acrolein	8.4	U
75-35-4	1,1-Dichloroethene	0.26	DJ
74-88-4	Iodomethane	0.84	U
75-15-0	Carbon disulfide	0.84	U
67-64-1	Acetone	4.2	U
107-05-1	3-Chloropropene	0.84	U
75-05-8	Acetonitrile	0.84	U
75-09-2	Methylene Chloride	0.40	DBJ
156-60-5	trans-1,2-Dichloroethene	0.51	DJ
107-13-1	Acrylonitrile	8.4	U
75-34-3	1,1-Dichloroethane	19	D
108-05-4	Vinyl acetate	1.7	U
594-20-7	2,2-Dichloropropane	0.84	U
156-59-2	cis-1,2-Dichloroethene	41	D
78-93-3	2-butanone	4.2	U
107-12-0	Propionitrile	42	U
74-97-5	Bromochloromethane	0.84	U
126-98-7	Methacrylonitrile	8.4	U
67-66-3	Chloroform	0.26	DJ
71-55-6	1,1,1-Trichloroethane	0.84	U
56-23-5	Carbon Tetrachloride	0.84	U
563-58-6	1,1-dichloropropene	0.84	U
71-43-2	Benzene	0.24	DJ
107-06-2	1,2-Dichloroethane	0.33	DJ
78-83-1	Isobutyl alcohol	42	U
79-01-6	Trichloroethene	3.7	D
78-87-5	1,2-Dichloropropane	0.81	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-05D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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	0.84	U
80-62-6	Methylmethacrylate	8.4	U
75-27-4	Bromodichloromethane	0.84	U
10061-01-5	cis-1,3-Dichloropropene	0.84	U
108-10-1	4-Methyl-2-pentanone	4.2	U
108-88-3	Toluene	0.14	DBJ
10061-02-6	trans-1,3-Dichloropropene	0.84	U
79-00-5	1,1,2-Trichloroethane	0.84	U
97-63-2	Ethylmethacrylate	8.4	U
127-18-4	Tetrachloroethene	2.8	D
142-28-9	1,3-Dichloropropane	0.84	U
591-78-6	2-hexanone	4.2	U
124-48-1	Dibromochloromethane	0.84	U
108-90-7	Chlorobenzene	0.22	DJ
630-20-6	1,1,1,2-Tetrachloroethane	0.84	U
100-41-4	Ethylbenzene	0.84	U
108-38-3	m,p-Xylene	1.7	U
95-47-6	o-Xylene	0.84	U
100-42-5	Styrene	0.84	U
75-25-2	Bromoform	0.84	U
96-18-4	1,2,3-Trichloropropane	0.84	U
79-34-5	1,1,2,2-Tetrachloroethane	0.84	U
110-57-6	trans-1,4-dichloro-2-butene	3.3	U
541-73-1	1,3-Dichlorobenzene	0.84	U
106-46-7	1,4-Dichlorobenzene	1.4	D
95-50-1	1,2-Dichlorobenzene	0.14	DJ
120-82-1	1,2,4-Trichlorobenzene	0.84	U
87-68-3	Hexachlorobutadiene	0.84	U
91-20-3	Naphthalene	0.84	U
1330-20-7	Xylene (total)	0.84	U
126-99-8	Chloroprene	0.84	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-06

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-06R71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.038	J
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	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	1.0	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.9	
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	0.059	J
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	0.43	J
78-87-5	1,2-Dichloropropane	0.50	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-06

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-06R71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.050	JB
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	1.5	
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	0.16	JB
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-2

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0271

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.55	
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	86	E
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	1.3	JB
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	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	51	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	0.26	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	0.059	J
71-55-6	1,1,1-Trichloroethane	330	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	0.54	
78-87-5	1,2-Dichloropropane	0.50	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0271

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.054	JB
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.092	J
97-63-2	Ethylmethacrylate	5.0	U
127-18-4	Tetrachloroethene	4.8	
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	0.50	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-02D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 16.7

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	8.3	U
74-87-3	Chloromethane	8.3	U
75-01-4	Vinyl Chloride	8.3	U
74-83-9	Bromomethane	8.3	U
75-00-3	Chloroethane	8.3	U
75-69-4	Trichlorofluoromethane	8.3	U
107-02-8	Acrolein	83	U
75-35-4	1,1-Dichloroethene	89	D
74-88-4	Iodomethane	8.3	U
75-15-0	Carbon disulfide	8.3	U
67-64-1	Acetone	42	U
107-05-1	3-Chloropropene	8.3	U
75-05-8	Acetonitrile	8.3	U
75-09-2	Methylene Chloride	1.2	DBJ
156-60-5	trans-1,2-Dichloroethene	8.3	U
107-13-1	Acrylonitrile	83	U
75-34-3	1,1-Dichloroethane	56	D
108-05-4	Vinyl acetate	17	U
594-20-7	2,2-Dichloropropane	8.3	U
156-59-2	cis-1,2-Dichloroethene	0.60	DJ
78-93-3	2-butanone	42	U
107-12-0	Propionitrile	420	U
74-97-5	Bromochloromethane	8.3	U
126-98-7	Methacrylonitrile	83	U
67-66-3	Chloroform	8.3	U
71-55-6	1,1,1-Trichloroethane	470	D
56-23-5	Carbon Tetrachloride	8.3	U
563-58-6	1,1-dichloropropene	8.3	U
71-43-2	Benzene	8.3	U
107-06-2	1,2-Dichloroethane	8.3	U
78-83-1	Isobutyl alcohol	420	U
79-01-6	Trichloroethene	8.3	U
78-87-5	1,2-Dichloropropane	8.3	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-02D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 16.7

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	8.3	U
80-62-6	Methylmethacrylate	83	U
75-27-4	Bromodichloromethane	8.3	U
10061-01-5	cis-1,3-Dichloropropene	8.3	U
108-10-1	4-Methyl-2-pentanone	42	U
108-88-3	Toluene	1.1	DBJ
10061-02-6	trans-1,3-Dichloropropene	8.3	U
79-00-5	1,1,2-Trichloroethane	8.3	U
97-63-2	Ethylmethacrylate	83	U
127-18-4	Tetrachloroethene	0.0	DJ
142-28-9	1,3-Dichloropropane	8.3	U
591-78-6	2-hexanone	42	U
124-48-1	Dibromochloromethane	8.3	U
108-90-7	Chlorobenzene	8.3	U
630-20-6	1,1,1,2-Tetrachloroethane	8.3	U
100-41-4	Ethylbenzene	8.3	U
108-38-3	m,p-Xylene	17	U
95-47-6	o-Xylene	8.3	U
100-42-5	Styrene	8.3	U
75-25-2	Bromoform	8.3	U
96-18-4	1,2,3-Trichloropropane	8.3	U
79-34-5	1,1,2,2-Tetrachloroethane	8.3	U
110-57-6	trans-1,4-dichloro-2-butene	33	U
541-73-1	1,3-Dichlorobenzene	8.3	U
106-46-7	1,4-Dichlorobenzene	8.3	U
95-50-1	1,2-Dichlorobenzene	8.3	U
120-82-1	1,2,4-Trichlorobenzene	8.3	U
87-68-3	Hexachlorobutadiene	8.3	U
91-20-3	Naphthalene	8.3	U
1330-20-7	Xylene (total)	8.3	U
126-99-8	Chloroprene	8.3	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-01

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.23	J
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	2.6	
75-69-4	Trichlorofluoromethane	0.50	U
107-02-8	Acrolein	5.0	U
75-35-4	1,1-Dichloroethene	0.072	J
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	2.5	U
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.21	JB
156-60-5	trans-1,2-Dichloroethene	0.29	J
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	7.8	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	21	
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	0.11	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	2.3	
78-87-5	1,2-Dichloropropane	0.31	J

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-01

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.081	JB
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	0.13	J
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	0.23	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-3MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MS171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.6	
74-87-3	Chloromethane	6.6	
75-01-4	Vinyl Chloride	7.2	
74-83-9	Bromomethane	3.2	
75-00-3	Chloroethane	7.7	
75-69-4	Trichlorofluoromethane	5.9	
107-02-8	Acrolein	60	
75-35-4	1,1-Dichloroethene	5.6	
74-88-4	Iodomethane	6.6	
75-15-0	Carbon disulfide	5.8	
67-64-1	Acetone	33	B
107-05-1	3-Chloropropene	8.1	
75-05-8	Acetonitrile	7.9	
75-09-2	Methylene Chloride	5.9	B
156-60-5	trans-1,2-Dichloroethene	6.0	
107-13-1	Acrylonitrile	61	
75-34-3	1,1-Dichloroethane	14	
108-05-4	Vinyl acetate	12	
594-20-7	2,2-Dichloropropane	5.7	
156-59-2	cis-1,2-Dichloroethene	26	
78-93-3	2-butanone	36	
107-12-0	Propionitrile	310	
74-97-5	Bromochloromethane	5.5	
126-98-7	Methacrylonitrile	69	
67-66-3	Chloroform	6.0	
71-55-6	1,1,1-Trichloroethane	5.5	
56-23-5	Carbon Tetrachloride	5.1	
563-58-6	1,1-dichloropropene	5.5	
71-43-2	Benzene	5.7	
107-06-2	1,2-Dichloroethane	5.6	
78-83-1	Isobutyl alcohol	350	
79-01-6	Trichloroethene	7.2	
78-87-5	1,2-Dichloropropane	6.4	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MS171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	58	
75-27-4	Bromodichloromethane	5.7	
10061-01-5	cis-1,3-Dichloropropene	5.4	
108-10-1	4-Methyl-2-pentanone	30	
108-88-3	Toluene	4.8	B
10061-02-6	trans-1,3-Dichloropropene	4.7	
79-00-5	1,1,2-Trichloroethane	4.7	
97-63-2	Ethylmethacrylate	50	
127-18-4	Tetrachloroethene	5.1	
142-28-9	1,3-Dichloropropane	4.9	
591-78-6	2-hexanone	31	
124-48-1	Dibromochloromethane	4.0	
108-90-7	Chlorobenzene	4.4	
630-20-6	1,1,1,2-Tetrachloroethane	4.2	
100-41-4	Ethylbenzene	4.4	
108-38-3	m,p-Xylene	9.2	
95-47-6	o-Xylene	4.6	
100-42-5	Styrene	4.4	
75-25-2	Bromoform	4.1	
96-18-4	1,2,3-Trichloropropane	4.4	
79-34-5	1,1,2,2-Tetrachloroethane	4.7	
110-57-6	trans-1,4-dichloro-2-butene	21	
541-73-1	1,3-Dichlorobenzene	3.9	
106-46-7	1,4-Dichlorobenzene	4.1	
95-50-1	1,2-Dichlorobenzene	4.2	
120-82-1	1,2,4-Trichlorobenzene	3.9	
87-68-3	Hexachlorobutadiene	3.8	
91-20-3	Naphthalene	3.9	B
1330-20-7	Xylene (total)	14	
126-99-8	Chloroprene	6.5	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MSD1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MSD171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.9	
74-87-3	Chloromethane	7.6	
75-01-4	Vinyl Chloride	8.0	
74-83-9	Bromomethane	3.9	
75-00-3	Chloroethane	7.8	
75-69-4	Trichlorofluoromethane	6.0	
107-02-8	Acrolein	65	
75-35-4	1,1-Dichloroethene	5.8	
74-88-4	Iodomethane	7.6	
75-15-0	Carbon disulfide	5.8	
67-64-1	Acetone	36	B
107-05-1	3-Chloropropene	8.2	
75-05-8	Acetonitrile	8.0	
75-09-2	Methylene Chloride	6.1	B
156-60-5	trans-1,2-Dichloroethene	5.9	
107-13-1	Acrylonitrile	67	
75-34-3	1,1-Dichloroethane	14	
108-05-4	Vinyl acetate	13	
594-20-7	2,2-Dichloropropane	5.5	
156-59-2	cis-1,2-Dichloroethene	26	
78-93-3	2-butanone	38	
107-12-0	Propionitrile	340	
74-97-5	Bromochloromethane	5.9	
126-98-7	Methacrylonitrile	73	
67-66-3	Chloroform	6.0	
71-55-6	1,1,1-Trichloroethane	5.5	
56-23-5	Carbon Tetrachloride	5.1	
563-58-6	1,1-dichloropropene	5.6	
71-43-2	Benzene	5.9	
107-06-2	1,2-Dichloroethane	5.7	
78-83-1	Isobutyl alcohol	400	
79-01-6	Trichloroethene	7.2	
78-87-5	1,2-Dichloropropane	6.5	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MSD1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MSD171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	5.0	
80-62-6	Methylmethacrylate	63	
75-27-4	Bromodichloromethane	5.9	
10061-01-5	cis-1,3-Dichloropropene	5.9	
108-10-1	4-Methyl-2-pentanone	33	
108-88-3	Toluene	5.0	B
10061-02-6	trans-1,3-Dichloropropene	4.9	
79-00-5	1,1,2-Trichloroethane	5.0	
97-63-2	Ethylmethacrylate	55	
127-18-4	Tetrachloroethene	5.1	
142-28-9	1,3-Dichloropropane	5.2	
591-78-6	2-hexanone	36	
124-48-1	Dibromochloromethane	4.4	
108-90-7	Chlorobenzene	4.7	
630-20-6	1,1,1,2-Tetrachloroethane	4.7	
100-41-4	Ethylbenzene	4.8	
108-38-3	m,p-Xylene	9.7	
95-47-6	o-Xylene	4.9	
100-42-5	Styrene	4.7	
75-25-2	Bromoform	4.5	
96-18-4	1,2,3-Trichloropropane	4.8	
79-34-5	1,1,2,2-Tetrachloroethane	4.9	
110-57-6	trans-1,4-dichloro-2-butene	22	
541-73-1	1,3-Dichlorobenzene	4.2	
106-46-7	1,4-Dichlorobenzene	4.3	
95-50-1	1,2-Dichlorobenzene	4.4	
120-82-1	1,2,4-Trichlorobenzene	4.2	
87-68-3	Hexachlorobutadiene	4.2	
91-20-3	Naphthalene	4.5	B
1330-20-7	Xylene (total)	15	
126-99-8	Chloroprene	6.4	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-03

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0371

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	2.4	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.047	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	0.057	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	0.50	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	0.10	J
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 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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-03

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0371

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.060	JB
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	0.50	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-04

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0471

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	1.9	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	3.8	
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	0.98	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.47	JB
156-60-5	trans-1,2-Dichloroethene	0.34	J
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	13	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	8.2	
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	3.0	
107-06-2	1,2-Dichloroethane	0.065	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	1.2	
78-87-5	1,2-Dichloropropane	0.28	J

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-04

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0471

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.10	JB
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	0.36	J
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	0.41	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	2.0	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	1.2	
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.

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Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-07

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0771

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	1.3	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.50	U
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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-07

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0771

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.065	JB
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	0.50	U
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.

VIKLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BS1R71_8

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.0	
74-87-3	Chloromethane	6.9	
75-01-4	Vinyl Chloride	7.5	
74-83-9	Bromomethane	3.1	
75-00-3	Chloroethane	5.9	
75-69-4	Trichlorofluoromethane	5.0	
107-02-8	Acrolein	73	
75-35-4	1,1-Dichloroethene	5.2	
74-88-4	Iodomethane	5.2	
75-15-0	Carbon disulfide	5.5	
67-64-1	Acetone	26	B
107-05-1	3-Chloropropene	6.9	
75-05-8	Acetonitrile	7.2	
75-09-2	Methylene Chloride	5.5	B
156-60-5	trans-1,2-Dichloroethene	5.2	
107-13-1	Acrylonitrile	61	
75-34-3	1,1-Dichloroethane	5.2	
108-05-4	Vinyl acetate	11	
594-20-7	2,2-Dichloropropane	4.6	
156-59-2	cis-1,2-Dichloroethene	5.3	
78-93-3	2-butanone	31	
107-12-0	Propionitrile	280	
74-97-5	Bromochloromethane	4.8	
126-98-7	Methacrylonitrile	64	
67-66-3	Chloroform	5.2	
71-55-6	1,1,1-Trichloroethane	4.7	
56-23-5	Carbon Tetrachloride	4.4	
563-58-6	1,1-dichloropropene	5.0	
71-43-2	Benzene	5.5	
107-06-2	1,2-Dichloroethane	4.7	
78-83-1	Isobutyl alcohol	280	
79-01-6	Trichloroethene	4.9	
78-87-5	1,2-Dichloropropane	5.7	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VIKLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BS1R71_8

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	5.0	
80-62-6	Methylmethacrylate	56	
75-27-4	Bromodichloromethane	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	
108-10-1	4-Methyl-2-pentanone	27	
108-88-3	Toluene	4.8	B
10061-02-6	trans-1,3-Dichloropropene	4.3	
79-00-5	1,1,2-Trichloroethane	4.5	
97-63-2	Ethylmethacrylate	50	
127-18-4	Tetrachloroethene	4.6	
142-28-9	1,3-Dichloropropane	4.7	
591-78-6	2-hexanone	29	
124-48-1	Dibromochloromethane	3.9	
108-90-7	Chlorobenzene	4.4	
630-20-6	1,1,1,2-Tetrachloroethane	4.2	
100-41-4	Ethylbenzene	4.4	
108-38-3	m,p-Xylene	8.9	
95-47-6	o-Xylene	4.4	
100-42-5	Styrene	4.3	
75-25-2	Bromoform	4.0	
96-18-4	1,2,3-Trichloropropane	4.1	
79-34-5	1,1,2,2-Tetrachloroethane	4.5	
110-57-6	trans-1,4-dichloro-2-butene	19	
541-73-1	1,3-Dichlorobenzene	3.9	
106-46-7	1,4-Dichlorobenzene	4.2	
95-50-1	1,2-Dichlorobenzene	4.2	
120-82-1	1,2,4-Trichlorobenzene	4.0	
87-68-3	Hexachlorobutadiene	4.4	
91-20-3	Naphthalene	4.1	B
1330-20-7	Xylene (total)	14	
126-99-8	Chloroprene	5.7	

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.: 1003173

	CLIENT SAMPLE NO.	SMC1 (DBF)#	SMC2 (DCE)#	SMC3 (TOL)#	SMC4 (BFB)#	TOT OUT
01	VBLKIK	93	89	90	88	0
02	VIKLCS	93	88	88	86	0
03	MW-3	89	85	91	89	0
04	MW-2	90	95	92	91	0
05	MW-8	96	97	91	93	0
06	MW-9	98	106	90	95	0
07	MW-12	99	104	91	97	0
08	TRIP BLANK	100	105	89	96	0
09	MW-3MS	97	103	84	93	0
10	MW-3MSD	99	105	86	92	0
11	MW-17	102	109	86	97	0
12	MW-12DL	96	99	89	96	0
13	MW-2DL	101	112	88	94	0
14						
15						
16						
17						
18						
19						
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.: 1003173

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	4.584	92	50-150
Chloromethane	5	0.0	6.587	132	50-150
Vinyl Chloride	5	0.2287	7.219	140	61-150
Bromomethane	5	0.0	3.245	65	50-150
Chloroethane	5	2.576	7.688	102	54-150
Trichlorofluoromethane	5	0.0	5.936	119	56-150
Acrolein	50	0.0	60.3	121	50-150
1,1-Dichloroethene	5	0.07162	5.627	111	74-143
Iodomethane	5	0.0	6.56	131	50-150
Carbon disulfide	5	0.0	5.834	117	50-150
Acetone	25	0.0	32.84	131	50-150
3-Chloropropene	5	0.0	8.086	162*	50-150
Acetonitrile	5	0.0	7.85	157*	50-150
Methylene Chloride	5	0.2135	5.873	113	50-139
trans-1,2-Dichloroethen	5	0.29	6	114	50-137
Acrylonitrile	50	0.0	61.12	122	50-150
1,1-Dichloroethane	5	7.834	13.68	117	59-138
Vinyl acetate	10	0.0	12.05	121	50-150
2,2-Dichloropropane	5	0.0	5.694	114	50-150
cis-1,2-Dichloroethene	5	21	26	100	69-140
2-butanone	25	0.0	35.95	144*	65-134
Propionitrile	250	0.0	311.1	124	50-150
Bromochloromethane	5	0.0	5.536	111	50-150
Methacrylonitrile	50	0.0	69.33	139	50-150
Chloroform	5	0.0	5.96	119	67-147
1,1,1-Trichloroethane	5	0.0	5.474	109	71-137
Carbon Tetrachloride	5	0.0	5.134	103	68-145
1,1-dichloropropene	5	0.0	5.481	110	50-150

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.: 1003173

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	5.746	115	68-138
1,2-Dichloroethane	5	0.1141	5.613	110	61-150
Isobutyl alcohol	250	0.0	346.6	139	50-150
Trichloroethene	5	2.327	7.163	97	55-150
1,2-Dichloropropane	5	0.31	6.432	122	67-137
Dibromomethane	5	0.0	4.852	97	50-150
Methylmethacrylate	50	0.0	57.79	116	50-150
Bromodichloromethane	5	0.0	5.657	113	73-142
cis-1,3-Dichloropropene	5	0.0	5.402	108	74-134
4-Methyl-2-pentanone	25	0.0	29.62	118	66-127
Toluene	5	0.081	4.784	94	60-142
trans-1,3-Dichloroprope	5	0.0	4.706	94	66-130
1,1,2-Trichloroethane	5	0.0	4.738	95	68-130
Ethylmethacrylate	50	0.0	50.41	101	50-150
Tetrachloroethene	5	0.1317	5.133	100	65-137
1,3-Dichloropropane	5	0.0	4.893	98	50-150
2-hexanone	25	0.0	31.37	125	53-140
Dibromochloromethane	5	0.0	4.037	81	68-137
Chlorobenzene	5	0.0	4.431	89	68-129
1,1,1,2-Tetrachloroetha	5	0.0	4.225	85	50-150
Ethylbenzene	5	0.0	4.425	89	67-127
Styrene	5	0.0	4.425	89	66-139
Bromoform	5	0.0	4.138	83	62-139
1,2,3-Trichloropropane	5	0.0	4.4	88	50-150
1,1,2,2-Tetrachloroetha	5	0.0	4.695	94	63-122
trans-1,4-dichloro-2-bu	20	0.0	21.05	105	50-150
1,3-Dichlorobenzene	5	0.0	3.908	78	64-136
1,4-Dichlorobenzene	5	0.0	4.101	82	69-125

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.: 1003173

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	4.185	84	71-127
1,2,4-Trichlorobenzene	5	0.0	3.86	77	52-147
Hexachlorobutadiene	5	0.0	3.829	77	50-150
Naphthalene	5	0.2259	3.85	72	50-150
Xylene (total)	15	0.0	14.44	96	60-140
Chloroprene	5	0.0	6.51	130	50-150

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.: 1003173

Matrix Spike - Sample No.: MW-3

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	5	4.87	97	6	25	50-150
Chloromethane	5	7.604	152*	14	25	50-150
Vinyl Chloride	5	8.034	156*	11	25	61-150
Bromomethane	5	3.916	78	19	25	50-150
Chloroethane	5	7.841	105	2	25	54-150
Trichlorofluoromethane	5	6.007	120	1	25	56-150
Acrolein	50	64.83	130	7	25	50-150
1,1-Dichloroethene	5	5.752	114	2	14	74-143
Iodomethane	5	7.571	151*	14	25	50-150
Carbon disulfide	5	5.819	116	0	25	50-150
Acetone	25	35.96	144	9	25	50-150
3-Chloropropene	5	8.23	165*	2	25	50-150
Acetonitrile	5	7.984	160*	2	25	50-150
Methylene Chloride	5	6.134	118	4	25	50-139
trans-1,2-Dichloroethen	5	5.9	112	2	25	50-137
Acrylonitrile	50	67.3	135	10	25	50-150
1,1-Dichloroethane	5	13.71	118	0	25	59-138
Vinyl acetate	10	12.91	129	7	25	50-150
2,2-Dichloropropane	5	5.51	110	3	25	50-150
cis-1,2-Dichloroethene	5	26	100	0	25	69-140
2-butanone	25	38.01	152*	6	25	65-134
Propionitrile	250	343.2	137	10	25	50-150
Bromochloromethane	5	5.878	118	6	25	50-150
Methacrylonitrile	50	72.97	146	5	25	50-150
Chloroform	5	6.035	121	1	25	67-147
1,1,1-Trichloroethane	5	5.486	110	0	25	71-137
Carbon Tetrachloride	5	5.103	102	1	25	68-145
1,1-dichloropropene	5	5.622	112	3	25	50-150

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.: 1003173

Matrix Spike - Sample No.: MW-3

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	5	5.88	118	2	11	68-138
1,2-Dichloroethane	5	5.665	111	1	25	61-150
Isobutyl alcohol	250	399.8	160*	14	25	50-150
Trichloroethene	5	7.156	97	0	14	55-150
1,2-Dichloropropane	5	6.468	123	1	25	67-137
Dibromomethane	5	4.996	100	3	25	50-150
Methylmethacrylate	50	63.48	127	9	25	50-150
Bromodichloromethane	5	5.874	117	4	25	73-142
cis-1,3-Dichloropropene	5	5.924	118	9	25	74-134
4-Methyl-2-pentanone	25	33.02	132*	11	25	66-127
Toluene	5	4.995	98	4	13	60-142
trans-1,3-Dichloroprope	5	4.908	98	4	25	66-130
1,1,2-Trichloroethane	5	4.961	99	5	25	68-130
Ethylmethacrylate	50	54.59	109	8	25	50-150
Tetrachloroethene	5	5.054	98	2	25	65-137
1,3-Dichloropropane	5	5.236	105	7	25	50-150
2-hexanone	25	35.59	142*	13	25	53-140
Dibromochloromethane	5	4.366	87	8	25	68-137
Chlorobenzene	5	4.661	93	5	13	68-129
1,1,1,2-Tetrachloroetha	5	4.653	93	10	25	50-150
Ethylbenzene	5	4.821	96	9	25	67-127
Styrene	5	4.654	93	5	25	66-139
Bromoform	5	4.465	89	8	25	62-139
1,2,3-Trichloropropane	5	4.776	96	8	25	50-150
1,1,2,2-Tetrachloroetha	5	4.928	99	5	25	63-122
trans-1,4-dichloro-2-bu	20	22.05	110	5	25	50-150
1,3-Dichlorobenzene	5	4.245	85	8	25	64-136
1,4-Dichlorobenzene	5	4.273	85	4	25	69-125

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.: 1003173

Matrix Spike - Sample No.: MW-3

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	5	4.359	87	4	25	71-127
1,2,4-Trichlorobenzene	5	4.213	84	9	25	52-147
Hexachlorobutadiene	5	4.181	84	9	25	50-150
Naphthalene	5	4.549	86	17	25	50-150
Xylene (total)	15	15.33	102	6	25	60-140
Chloroprene	5	6.439	129	1	25	50-150

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: 12 out of 124 outside limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VIKLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	5	3.991	80	50-150
Chloromethane	5	6.867	137	50-150
Vinyl Chloride	5	7.466	149	61-150
Bromomethane	5	3.094	62	50-150
Chloroethane	5	5.939	119	54-150
Trichlorofluoromethane	5	5.034	101	56-150
Acrolein	50	73.25	147	50-150
1,1-Dichloroethene	5	5.245	105	74-143
Iodomethane	5	5.183	104	50-150
Carbon disulfide	5	5.513	110	50-150
Acetone	25	26.24	105	50-150
3-Chloropropene	5	6.935	139	50-150
Acetonitrile	5	7.192	144	50-150
Methylene Chloride	5	5.496	110	50-139
trans-1,2-Dichloroethen	5	5.2	104	50-137
Acrylonitrile	50	60.65	121	50-150
1,1-Dichloroethane	5	5.187	104	59-138
Vinyl acetate	10	10.92	109	50-150
2,2-Dichloropropane	5	4.588	92	50-150
cis-1,2-Dichloroethene	5	5.3	106	69-140
2-butanone	25	30.5	122	65-134
Propionitrile	250	284.8	114	50-150
Bromochloromethane	5	4.812	96	50-150
Methacrylonitrile	50	63.81	128	50-150
Chloroform	5	5.2	104	67-147
1,1,1-Trichloroethane	5	4.668	93	71-137
Carbon Tetrachloride	5	4.423	88	68-145
1,1-dichloropropene	5	4.968	99	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

VIKLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	5	5.467	109	68-138
1,2-Dichloroethane	5	4.661	93	61-150
Isobutyl alcohol	250	278.8	112	50-150
Trichloroethene	5	4.858	97	55-150
1,2-Dichloropropane	5	5.699	114	67-137
Dibromomethane	5	5.007	100	50-150
Methylmethacrylate	50	55.52	111	50-150
Bromodichloromethane	5	4.99	100	73-142
cis-1,3-Dichloropropene	5	5.046	101	74-134
4-Methyl-2-pentanone	25	27.49	110	66-127
Toluene	5	4.803	96	60-142
trans-1,3-Dichloroprope	5	4.279	86	66-130
1,1,2-Trichloroethane	5	4.549	91	68-130
Ethylmethacrylate	50	49.7	99	50-150
Tetrachloroethene	5	4.613	92	65-137
1,3-Dichloropropane	5	4.733	95	50-150
2-hexanone	25	28.69	115	53-140
Dibromochloromethane	5	3.879	78	68-137
Chlorobenzene	5	4.377	88	68-129
1,1,1,2-Tetrachloroetha	5	4.227	85	50-150
Ethylbenzene	5	4.403	88	67-127
Styrene	5	4.275	86	66-139
Bromoform	5	3.965	79	62-139
1,2,3-Trichloropropane	5	4.138	83	50-150
1,1,2,2-Tetrachloroetha	5	4.485	90	63-122
trans-1,4-dichloro-2-bu	20	18.69	93	50-150
1,3-Dichlorobenzene	5	3.945	79	64-136
1,4-Dichlorobenzene	5	4.209	84	69-125

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

VIKLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	5	4.211	84	71-127
1,2,4-Trichlorobenzene	5	4.042	81	52-147
Hexachlorobutadiene	5	4.363	87	50-150
Naphthalene	5	4.107	82	50-150
Xylene (total)	15	13.95	93	60-140
Chloroprene	5	5.716	114	50-150

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 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKIK

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Lab File ID: 0033105-BLK171_8 Lab Sample ID: 0033105-BLK1

Date Analyzed: 03/31/10 Time Analyzed: 1355

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VIKLCS	0033105-BS1	0033105-BS1R	1538
02	MW-3	1003173-01	1003173-0171	1640
03	MW-2	1003173-02	1003173-0271	1710
04	MW-8	1003173-03	1003173-0371	1738
05	MW-9	1003173-04	1003173-0471	1805
06	MW-12	1003173-05	1003173-0571	1833
07	TRIP BLANK	1003173-07	1003173-0771	1928
08	MW-3MS	0033105-MS1	0033105-MS17	2012
09	MW-3MSD	0033105-MSD1	0033105-MSD1	2039
10	MW-17	1003173-06	1003173-06R7	2107
11	MW-12DL	1003173-05DL	1003173-05D7	2137
12	MW-2DL	1003173-02DL	1003173-02D7	2204
13				
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29				
30				

COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKIK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BLK1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BLK171_8

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.78	J
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.41	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 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKIK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BLK1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BLK171_8

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.096	J
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	0.18	J
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

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.: 1003173

Lab File ID (Standard): 0C31006-CCV171 Date Analyzed: 03/31/10

Instrument ID: 5972HP71 Time Analyzed: 1319

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

		IS1(FBZ)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	519479	11.07	425190	13.22	179700	14.71
	UPPER LIMIT	1038958	11.57	850380	13.72	359400	15.21
	LOWER LIMIT	259739	10.57	212595	12.72	89850	14.21
	CLIENT SAMPLE NO.						
01	VBLKIK	522676	11.07	429901	13.21	174525	14.72
02	VIKLCS	522578	11.07	449629	13.22	185665	14.71
03	MW-3	501651	11.07	402930	13.22	151833	14.71
04	MW-2	485388	11.07	396407	13.21	155601	14.72
05	MW-8	439490	11.07	364272	13.21	141195	14.72
06	MW-9	434202	11.07	364255	13.21	144192	14.72
07	MW-12	412532	11.07	344044	13.21	131159	14.72
08	TRIP BLANK	382177	11.08	326958	13.21	123841	14.72
09	MW-3MS	394009	11.07	353252	13.22	145052	14.71
10	MW-3MSD	402489	11.07	360167	13.21	151096	14.72
11	MW-17	394058	11.07	344721	13.22	132600	14.71
12	MW-12DL	379461	11.07	318574	13.21	119604	14.72
13	MW-2DL	371882	11.07	314869	13.21	125104	14.72
14							
15							
16							
17							
18							
19							
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 # : 1003173

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 # 1003173
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, refrigerated at 0.4°C, with proper documentation, in sealed shipping containers, on March 19th, 2010. 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 1003173 are included in the sample data sections.

Analysis holding time requirements were met for the samples. The pH values of the samples were equal to 1. There were volatile Project/Target Compound List (TCL) analytes above the Contract Required Quantitation Limit (CRQL) identified in five/7 the samples. All of the system monitoring compounds 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.

In the initial analyses of samples MW-2 and MW-12, the on-column amounts exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The samples were reanalyzed using smaller aliquot of raw samples to bring the on-column amounts into range. We have reported both analyses of the samples MW-2 and MW-12.

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 blank met all quality control criteria. The associated Laboratory Control Sample (VIKLCS) met all accuracy criteria. Sample MW-3 was requested for matrix spike/matrix spike duplicate (MS/MSD) 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.

Preeti Khare
Data Reviewer I
April 8th, 2010

GC and GC/MS Column and Trap Specifications Table

SDG #: 1003173

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)

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* 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'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 ≥ 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. 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

XJC 2/01/10

Client: Watauga County, NC **Attn:** Mr. J.V. Potter **Address:** 842 West King Street?/Courthouse, Suite 1 Boone, NC 28607 **Phone:** (828) 264-5305 **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:** February 2010 Semiannual Assess. Monitoring Event **DAA JN:** 6520-39 **Lab JN:**	**Project Specific (PS) or Batch (B) QC:** ☐ PS ☑ B **Sample Collection for Project Complete? (See Note 1)** ☑ YES BY ☐ NO **Carrier:** **Tracking Number:**

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative
A HCL; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; 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 5: Sample Container Type
P Plastic; V VOA; AG Amber Glass; CG Clear Glass

Invoice
Copy to Consultant: ☑ YES ☐ NO
Bill: ☑ Client ☐ Consultant
Preserved and shipped on ice: ☑ YES BY ☐ NO

Sample ID	Date: 2010	Time	Box 1: Matrix	Number of Bottles	8260B 25ml purge 40ml	CLP METALS ILMO4.1 500ml latest update	JLP 2-24-10	pH metals						
Box 4 - Sample Type					G	G								
Box 3 - Filtered/Unfiltered					U	U								
Required pH of Sample					<2	<2								
Box 2 - Preservative					A	B								
Box 5 - Sample Container Type					3-40ml V	1-500ml P								
MW-2	3/18	1200	GW	4	X	X		<2						1003173-02
MW-3	3/18	1340	GW	4	X	X		<2						1003173-01
MW-3ms	3/18	1340	GW	4	X	X		<2						
MW-3msd	3/18	1340	GW	4	X	X		<2						
MW-8	3/18	1135	GW	4	X	X		<2						1003173-03
MW-9	3/18	1115	GW	4	X	X		<2						-04
MW-12	3/18	1425	GW	4	X	X		<2						-05
MW-17	3/18	1330	GW	4	X	X		<2						-06
Trip Blank	2/4		T	3	X									1003173-07

GENERAL NOTES:
1. Level 4 w/ EDD & PDF.

Clients Special Instructions: Level 4 w/ EDD & PDF

Received by lab in Good Condition ✓ Yes ___ No Custody Seal Intact ✓ Yes ___ No Temperature upon arrival 0.4°C Received on Ice ✓ Yes ___ No
Describe problems, if any: SN0015

VH 3/22/10

Sampler Name (Print): Chris Branscome	Date: 03/16/10	#1 Relinquished by (Signature): Chris Branscome	Date: 3/18/10	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Chris Branscome	Time: 2000	Company Name: Draper Aden Assoc.	Time: 1700	Company Name:	Time:	
Sampler Name (Print): Dale Slaughter	Date: 3/16/10	#1 Received by (Signature): Diane Byrd	Date: 3/19/10	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature: Dale Slaughter	Time: 2000	Company Name: Compuchem	Time: 0930	Company Name:	Time:	

OK JLP 2-24-2000

XJC 2-01-10

1/6

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

KFC - 2/19/2009
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49. 1,1,1,2-tetrachloroethane	630-20-6
50. 1,1,2,2-tetrachloroethane	79-34-5
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

WORK ORDER

Printed: 4/8/2010 5:06:54PM

1003173

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1003173** **CASE:**	**Status:**	**Reported**

Report To:
DRAPER
JANET FRAZIER
2206 SOUTH MAIN STREET
BLACKSBURG, VA 24060
Phone: (540)552-0444
Fax: -

Invoice To:
WATAUGA COUNTY, NC
MR. J.V. POLTER
842 WESTKING STREET/COURTHOUSE, SUITE 1
BOONE, NC 28607
Phone :-
Fax: -

Date Due: 04/08/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 03/19/2010 09:30

Logged In By: Cathy Dover — Date Logged In: 03/22/2010 17:02

J & B Flags?: **YES**	TICS?: **EPA-TICS**	Deliverable: **Style 9**	EDD : **36) DRAPER ACCESS**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

USE 1003173-01 (MW-3) FOR QC VOC 8260B 25 ML LIST=PPS897O.SUB*ILM05.4 MTL=Ba,Fe,Cr,Co,Ni & V

Analysis	Due	TAT	Expires	Received	Comments
1003173-01 MW-3 [Water] Sampled 03/18/2010 13:40 Eastern					**USE FOR QC**
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 13:40	03/19/2010 09:30	
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 13:40	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 13:40	03/19/2010 09:30	
1003173-02 MW-2 [Water] Sampled 03/18/2010 12:00 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 12:00	03/19/2010 09:30	
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 12:00	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 12:00	03/19/2010 09:30	
1003173-03 MW-8 [Water] Sampled 03/18/2010 11:35 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 11:35	03/19/2010 09:30	
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 11:35	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 11:35	03/19/2010 09:30	
1003173-04 MW-9 [Water] Sampled 03/18/2010 11:15 Eastern					
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 11:15	03/19/2010 09:30	
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 11:15	03/19/2010 09:30	
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 11:15	03/19/2010 09:30	

1003173

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1003173** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires	Comments
1003173-05 MW-12 [Water] Sampled 03/18/2010 14:25 Eastern				
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 14:25	03/19/2010 09:30
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 14:25	03/19/2010 09:30
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 14:25	03/19/2010 09:30
1003173-06 MW-17 [Water] Sampled 03/18/2010 13:30 Eastern				
ILM05.4 - ICP AES (5-10) Invoice	04/08/2010 16:00	20	09/14/2010 13:30	03/19/2010 09:30
ILM05.4 - ICP/AES (TM)	04/08/2010 16:00	20	09/14/2010 13:30	03/19/2010 09:30
VOA-8260B 25ML	04/08/2010 16:00	20	04/01/2010 13:30	03/19/2010 09:30
1003173-07 TRIP BLANK [Water] Sampled 02/04/2010 00:00 Eastern				
VOA-8260B 25ML	04/08/2010 16:00	20	02/18/2010 00:00	03/19/2010 09:30

VOA Internal Chain of Custody Sheet

Matrix Water **Batch**: 0032424 **Status**: Batched **Analysis**: VOA-8260B 25ML

Lab Id	Client Id	Received	Container	Extraction
1003173-01 A	MW-3	03/19/10	01b_40mL VOA, cool, H	8260B 25ML
1003173-02 A	MW-2	03/19/10	01b_40mL VOA, cool, H	8260B 25ML
1003173-03 A	MW-8	03/19/10	01b_40mL VOA, cool, H	8260B 25ML
1003173-04 A	MW-9	03/19/10	01b_40mL VOA, cool, H	8260B 25ML
1003173-05 A	MW-12	03/19/10	01b_40mL VOA, cool, H	8260B 25ML
1003173-06 A	MW-17	03/19/10	01b_40mL VOA, cool, H	8260B 25ML
1003173-07 A	TRIP BLANK	03/19/10	01b_40mL VOA, cool, H	8260B 25ML

#2B	3-31-10	JAD	3-31-10
Relinquished By	Date/Time	Received By	Date/Time
JAD	3-31-10	#2B	3-31-10
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE : LIBRTY	METHOD: 8260B
CASE # : _____	SDG # : 1003173

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.: 1003173

	CLIENT SAMPLE NO.	SMC1 (DBF)#	SMC2 (DCE)#	SMC3 (TOL)#	SMC4 (BFB)#	TOT OUT
01	VBLKIK	93	89	90	88	0
02	VIKLCS	93	88	88	86	0
03	MW-3	89	85	91	89	0
04	MW-2	90	95	92	91	0
05	MW-8	96	97	91	93	0
06	MW-9	98	106	90	95	0
07	MW-12	99	104	91	97	0
08	TRIP BLANK	100	105	89	96	0
09	MW-3MS	97	103	84	93	0
10	MW-3MSD	99	105	86	92	0
11	MW-17	102	109	86	97	0
12	MW-12DL	96	99	89	96	0
13	MW-2DL	101	112	88	94	0
14						
15						
16						
17						
18						
19						
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.: 1003173

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	4.584	92	50-150
Chloromethane	5	0.0	6.587	132	50-150
Vinyl Chloride	5	0.2287	7.219	140	61-150
Bromomethane	5	0.0	3.245	65	50-150
Chloroethane	5	2.576	7.688	102	54-150
Trichlorofluoromethane	5	0.0	5.936	119	56-150
Acrolein	50	0.0	60.3	121	50-150
1,1-Dichloroethene	5	0.07162	5.627	111	74-143
Iodomethane	5	0.0	6.56	131	50-150
Carbon disulfide	5	0.0	5.834	117	50-150
Acetone	25	0.0	32.84	131	50-150
3-Chloropropene	5	0.0	8.086	162*	50-150
Acetonitrile	5	0.0	7.85	157*	50-150
Methylene Chloride	5	0.2135	5.873	113	50-139
trans-1,2-Dichloroethen	5	0.29	6	114	50-137
Acrylonitrile	50	0.0	61.12	122	50-150
1,1-Dichloroethane	5	7.834	13.68	117	59-138
Vinyl acetate	10	0.0	12.05	121	50-150
2,2-Dichloropropane	5	0.0	5.694	114	50-150
cis-1,2-Dichloroethene	5	21	26	100	69-140
2-butanone	25	0.0	35.95	144*	65-134
Propionitrile	250	0.0	311.1	124	50-150
Bromochloromethane	5	0.0	5.536	111	50-150
Methacrylonitrile	50	0.0	69.33	139	50-150
Chloroform	5	0.0	5.96	119	67-147
1,1,1-Trichloroethane	5	0.0	5.474	109	71-137
Carbon Tetrachloride	5	0.0	5.134	103	68-145
1,1-dichloropropene	5	0.0	5.481	110	50-150

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.: 1003173

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	5.746	115	68-138
1,2-Dichloroethane	5	0.1141	5.613	110	61-150
Isobutyl alcohol	250	0.0	346.6	139	50-150
Trichloroethene	5	2.327	7.163	97	55-150
1,2-Dichloropropane	5	0.31	6.432	122	67-137
Dibromomethane	5	0.0	4.852	97	50-150
Methylmethacrylate	50	0.0	57.79	116	50-150
Bromodichloromethane	5	0.0	5.657	113	73-142
cis-1,3-Dichloropropene	5	0.0	5.402	108	74-134
4-Methyl-2-pentanone	25	0.0	29.62	118	66-127
Toluene	5	0.081	4.784	94	60-142
trans-1,3-Dichloroprope	5	0.0	4.706	94	66-130
1,1,2-Trichloroethane	5	0.0	4.738	95	68-130
Ethylmethacrylate	50	0.0	50.41	101	50-150
Tetrachloroethene	5	0.1317	5.133	100	65-137
1,3-Dichloropropane	5	0.0	4.893	98	50-150
2-hexanone	25	0.0	31.37	125	53-140
Dibromochloromethane	5	0.0	4.037	81	68-137
Chlorobenzene	5	0.0	4.431	89	68-129
1,1,1,2-Tetrachloroetha	5	0.0	4.225	85	50-150
Ethylbenzene	5	0.0	4.425	89	67-127
Styrene	5	0.0	4.425	89	66-139
Bromoform	5	0.0	4.138	83	62-139
1,2,3-Trichloropropane	5	0.0	4.4	88	50-150
1,1,2,2-Tetrachloroetha	5	0.0	4.695	94	63-122
trans-1,4-dichloro-2-bu	20	0.0	21.05	105	50-150
1,3-Dichlorobenzene	5	0.0	3.908	78	64-136
1,4-Dichlorobenzene	5	0.0	4.101	82	69-125

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.: 1003173

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	4.185	84	71-127
1,2,4-Trichlorobenzene	5	0.0	3.86	77	52-147
Hexachlorobutadiene	5	0.0	3.829	77	50-150
Naphthalene	5	0.2259	3.85	72	50-150
Xylene (total)	15	0.0	14.44	96	60-140
Chloroprene	5	0.0	6.51	130	50-150

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.: 1003173

Matrix Spike - Sample No.: MW-3

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	5	4.87	97	6	25	50-150
Chloromethane	5	7.604	152*	14	25	50-150
Vinyl Chloride	5	8.034	156*	11	25	61-150
Bromomethane	5	3.916	78	19	25	50-150
Chloroethane	5	7.841	105	2	25	54-150
Trichlorofluoromethane	5	6.007	120	1	25	56-150
Acrolein	50	64.83	130	7	25	50-150
1,1-Dichloroethene	5	5.752	114	2	14	74-143
Iodomethane	5	7.571	151*	14	25	50-150
Carbon disulfide	5	5.819	116	0	25	50-150
Acetone	25	35.96	144	9	25	50-150
3-Chloropropene	5	8.23	165*	2	25	50-150
Acetonitrile	5	7.984	160*	2	25	50-150
Methylene Chloride	5	6.134	118	4	25	50-139
trans-1,2-Dichloroethen	5	5.9	112	2	25	50-137
Acrylonitrile	50	67.3	135	10	25	50-150
1,1-Dichloroethane	5	13.71	118	0	25	59-138
Vinyl acetate	10	12.91	129	7	25	50-150
2,2-Dichloropropane	5	5.51	110	3	25	50-150
cis-1,2-Dichloroethene	5	26	100	0	25	69-140
2-butanone	25	38.01	152*	6	25	65-134
Propionitrile	250	343.2	137	10	25	50-150
Bromochloromethane	5	5.878	118	6	25	50-150
Methacrylonitrile	50	72.97	146	5	25	50-150
Chloroform	5	6.035	121	1	25	67-147
1,1,1-Trichloroethane	5	5.486	110	0	25	71-137
Carbon Tetrachloride	5	5.103	102	1	25	68-145
1,1-dichloropropene	5	5.622	112	3	25	50-150

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.: 1003173

Matrix Spike - Sample No.: MW-3

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	5	5.88	118	2	11	68-138
1,2-Dichloroethane	5	5.665	111	1	25	61-150
Isobutyl alcohol	250	399.8	160*	14	25	50-150
Trichloroethene	5	7.156	97	0	14	55-150
1,2-Dichloropropane	5	6.468	123	1	25	67-137
Dibromomethane	5	4.996	100	3	25	50-150
Methylmethacrylate	50	63.48	127	9	25	50-150
Bromodichloromethane	5	5.874	117	4	25	73-142
cis-1,3-Dichloropropene	5	5.924	118	9	25	74-134
4-Methyl-2-pentanone	25	33.02	132*	11	25	66-127
Toluene	5	4.995	98	4	13	60-142
trans-1,3-Dichloroprope	5	4.908	98	4	25	66-130
1,1,2-Trichloroethane	5	4.961	99	5	25	68-130
Ethylmethacrylate	50	54.59	109	8	25	50-150
Tetrachloroethene	5	5.054	98	2	25	65-137
1,3-Dichloropropane	5	5.236	105	7	25	50-150
2-hexanone	25	35.59	142*	13	25	53-140
Dibromochloromethane	5	4.366	87	8	25	68-137
Chlorobenzene	5	4.661	93	5	13	68-129
1,1,1,2-Tetrachloroetha	5	4.653	93	10	25	50-150
Ethylbenzene	5	4.821	96	9	25	67-127
Styrene	5	4.654	93	5	25	66-139
Bromoform	5	4.465	89	8	25	62-139
1,2,3-Trichloropropane	5	4.776	96	8	25	50-150
1,1,2,2-Tetrachloroetha	5	4.928	99	5	25	63-122
trans-1,4-dichloro-2-bu	20	22.05	110	5	25	50-150
1,3-Dichlorobenzene	5	4.245	85	8	25	64-136
1,4-Dichlorobenzene	5	4.273	85	4	25	69-125

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.: 1003173

Matrix Spike - Sample No.: MW-3

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	5	4.359	87	4	25	71-127
1,2,4-Trichlorobenzene	5	4.213	84	9	25	52-147
Hexachlorobutadiene	5	4.181	84	9	25	50-150
Naphthalene	5	4.549	86	17	25	50-150
Xylene (total)	15	15.33	102	6	25	60-140
Chloroprene	5	6.439	129	1	25	50-150

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: 12 out of 124 outside limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VIKLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	5	3.991	80	50-150
Chloromethane	5	6.867	137	50-150
Vinyl Chloride	5	7.466	149	61-150
Bromomethane	5	3.094	62	50-150
Chloroethane	5	5.939	119	54-150
Trichlorofluoromethane	5	5.034	101	56-150
Acrolein	50	73.25	147	50-150
1,1-Dichloroethene	5	5.245	105	74-143
Iodomethane	5	5.183	104	50-150
Carbon disulfide	5	5.513	110	50-150
Acetone	25	26.24	105	50-150
3-Chloropropene	5	6.935	139	50-150
Acetonitrile	5	7.192	144	50-150
Methylene Chloride	5	5.496	110	50-139
trans-1,2-Dichloroethen	5	5.2	104	50-137
Acrylonitrile	50	60.65	121	50-150
1,1-Dichloroethane	5	5.187	104	59-138
Vinyl acetate	10	10.92	109	50-150
2,2-Dichloropropane	5	4.588	92	50-150
cis-1,2-Dichloroethene	5	5.3	106	69-140
2-butanone	25	30.5	122	65-134
Propionitrile	250	284.8	114	50-150
Bromochloromethane	5	4.812	96	50-150
Methacrylonitrile	50	63.81	128	50-150
Chloroform	5	5.2	104	67-147
1,1,1-Trichloroethane	5	4.668	93	71-137
Carbon Tetrachloride	5	4.423	88	68-145
1,1-dichloropropene	5	4.968	99	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

VIKLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	5	5.467	109	68-138
1,2-Dichloroethane	5	4.661	93	61-150
Isobutyl alcohol	250	278.8	112	50-150
Trichloroethene	5	4.858	97	55-150
1,2-Dichloropropane	5	5.699	114	67-137
Dibromomethane	5	5.007	100	50-150
Methylmethacrylate	50	55.52	111	50-150
Bromodichloromethane	5	4.99	100	73-142
cis-1,3-Dichloropropene	5	5.046	101	74-134
4-Methyl-2-pentanone	25	27.49	110	66-127
Toluene	5	4.803	96	60-142
trans-1,3-Dichloroprope	5	4.279	86	66-130
1,1,2-Trichloroethane	5	4.549	91	68-130
Ethylmethacrylate	50	49.7	99	50-150
Tetrachloroethene	5	4.613	92	65-137
1,3-Dichloropropane	5	4.733	95	50-150
2-hexanone	25	28.69	115	53-140
Dibromochloromethane	5	3.879	78	68-137
Chlorobenzene	5	4.377	88	68-129
1,1,1,2-Tetrachloroetha	5	4.227	85	50-150
Ethylbenzene	5	4.403	88	67-127
Styrene	5	4.275	86	66-139
Bromoform	5	3.965	79	62-139
1,2,3-Trichloropropane	5	4.138	83	50-150
1,1,2,2-Tetrachloroetha	5	4.485	90	63-122
trans-1,4-dichloro-2-bu	20	18.69	93	50-150
1,3-Dichlorobenzene	5	3.945	79	64-136
1,4-Dichlorobenzene	5	4.209	84	69-125

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

VIKLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	5	4.211	84	71-127
1,2,4-Trichlorobenzene	5	4.042	81	52-147
Hexachlorobutadiene	5	4.363	87	50-150
Naphthalene	5	4.107	82	50-150
Xylene (total)	15	13.95	93	60-140
Chloroprene	5	5.716	114	50-150

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.

VBLKIK

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Lab File ID: 0033105-BLK171_8 Lab Sample ID: 0033105-BLK1

Date Analyzed: 03/31/10 Time Analyzed: 1355

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VIKLCS	0033105-BS1	0033105-BS1R	1538
02	MW-3	1003173-01	1003173-0171	1640
03	MW-2	1003173-02	1003173-0271	1710
04	MW-8	1003173-03	1003173-0371	1738
05	MW-9	1003173-04	1003173-0471	1805
06	MW-12	1003173-05	1003173-0571	1833
07	TRIP BLANK	1003173-07	1003173-0771	1928
08	MW-3MS	0033105-MS1	0033105-MS17	2012
09	MW-3MSD	0033105-MSD1	0033105-MSD1	2039
10	MW-17	1003173-06	1003173-06R7	2107
11	MW-12DL	1003173-05DL	1003173-05D7	2137
12	MW-2DL	1003173-02DL	1003173-02D7	2204
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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.: 1003173

Lab File ID: 0C23006-TUN171 BFB Injection Date: 03/23/10

Instrument ID: 5972HP71 BFB Injection Time: 1354

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	20.5
75	30.0 - 60.0% of mass 95	41.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.1
175	5.0 - 9.0% of mass 174	6.7 (7.7)1
176	95.0 - 101.0% of mass 174	87.8 (100.8)1
177	5.0 - 9.0% of mass 176	5.9 (6.8)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	0C23006-CAL	0C23006-CAL271	03/23/10	1426
02	VSTD0.5	0C23006-CAL	0C23006-CAL171	03/23/10	1454
03	VSTD005	0C23006-CAL	0C23006-CAL371	03/23/10	1529
04	VSTD010	0C23006-CAL	0C23006-CAL471	03/23/10	1558
05	VSTD040	0C23006-CAL	0C23006-CAL671	03/23/10	1653
06	VSTD020	0C23006-CAL	0C23006-CAL5R7	03/23/10	1721
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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.: 1003173

Lab File ID: 0C31006-TUN171 BFB Injection Date: 03/31/10

Instrument ID: 5972HP71 BFB Injection Time: 1247

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	19.0
75	30.0 - 60.0% of mass 95	34.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	84.6
175	5.0 - 9.0% of mass 174	6.4 (7.5)1
176	95.0 - 101.0% of mass 174	82.3 (97.2)1
177	5.0 - 9.0% of mass 176	5.6 (6.8)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	0C31006-CCV	0C31006-CCV171	03/31/10	1319
02	VBLKIK	0033105-BLK	0033105-BLK171	03/31/10	1355
03	VIKLCS	0033105-BS1	0033105-BS1R71	03/31/10	1538
04	MW-3	1003173-01	1003173-0171	03/31/10	1640
05	MW-2	1003173-02	1003173-0271	03/31/10	1710
06	MW-8	1003173-03	1003173-0371	03/31/10	1738
07	MW-9	1003173-04	1003173-0471	03/31/10	1805
08	MW-12	1003173-05	1003173-0571	03/31/10	1833
09	TRIP BLANK	1003173-07	1003173-0771	03/31/10	1928
10	MW-3MS	0033105-MS1	0033105-MS171	03/31/10	2012
11	MW-3MSD	0033105-MSD	0033105-MSD171	03/31/10	2039
12	MW-17	1003173-06	1003173-06R71	03/31/10	2107
13	MW-12DL	1003173-05D	1003173-05D71	03/31/10	2137
14	MW-2DL	1003173-02D	1003173-02D71	03/31/10	2204
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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.: 1003173

Lab File ID (Standard): 0C31006-CCV171 Date Analyzed: 03/31/10

Instrument ID: 5972HP71 Time Analyzed: 1319

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	519479	11.07	425190	13.22	179700	14.71
	UPPER LIMIT	1038958	11.57	850380	13.72	359400	15.21
	LOWER LIMIT	259739	10.57	212595	12.72	89850	14.21
	CLIENT SAMPLE NO.						
01	VBLKIK	522676	11.07	429901	13.21	174525	14.72
02	VIKLCS	522578	11.07	449629	13.22	185665	14.71
03	MW-3	501651	11.07	402930	13.22	151833	14.71
04	MW-2	485388	11.07	396407	13.21	155601	14.72
05	MW-8	439490	11.07	364272	13.21	141195	14.72
06	MW-9	434202	11.07	364255	13.21	144192	14.72
07	MW-12	412532	11.07	344044	13.21	131159	14.72
08	TRIP BLANK	382177	11.08	326958	13.21	123841	14.72
09	MW-3MS	394009	11.07	353252	13.22	145052	14.71
10	MW-3MSD	402489	11.07	360167	13.21	151096	14.72
11	MW-17	394058	11.07	344721	13.22	132600	14.71
12	MW-12DL	379461	11.07	318574	13.21	119604	14.72
13	MW-2DL	371882	11.07	314869	13.21	125104	14.72
14							
15							
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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.

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.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0571

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.14	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	6.5	
75-69-4	Trichlorofluoromethane	0.50	U
107-02-8	Acrolein	5.0	U
75-35-4	1,1-Dichloroethene	0.27	J
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	2.5	U
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.34	JB
156-60-5	trans-1,2-Dichloroethene	0.54	
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	19	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	42	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	0.29	J
71-55-6	1,1,1-Trichloroethane	0.082	J
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-dichloropropene	0.50	U
71-43-2	Benzene	0.23	J
107-06-2	1,2-Dichloroethane	0.40	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	3.9	
78-87-5	1,2-Dichloropropane	0.77	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0571

Level: (low/med) LOW Date Received: 03/19/10

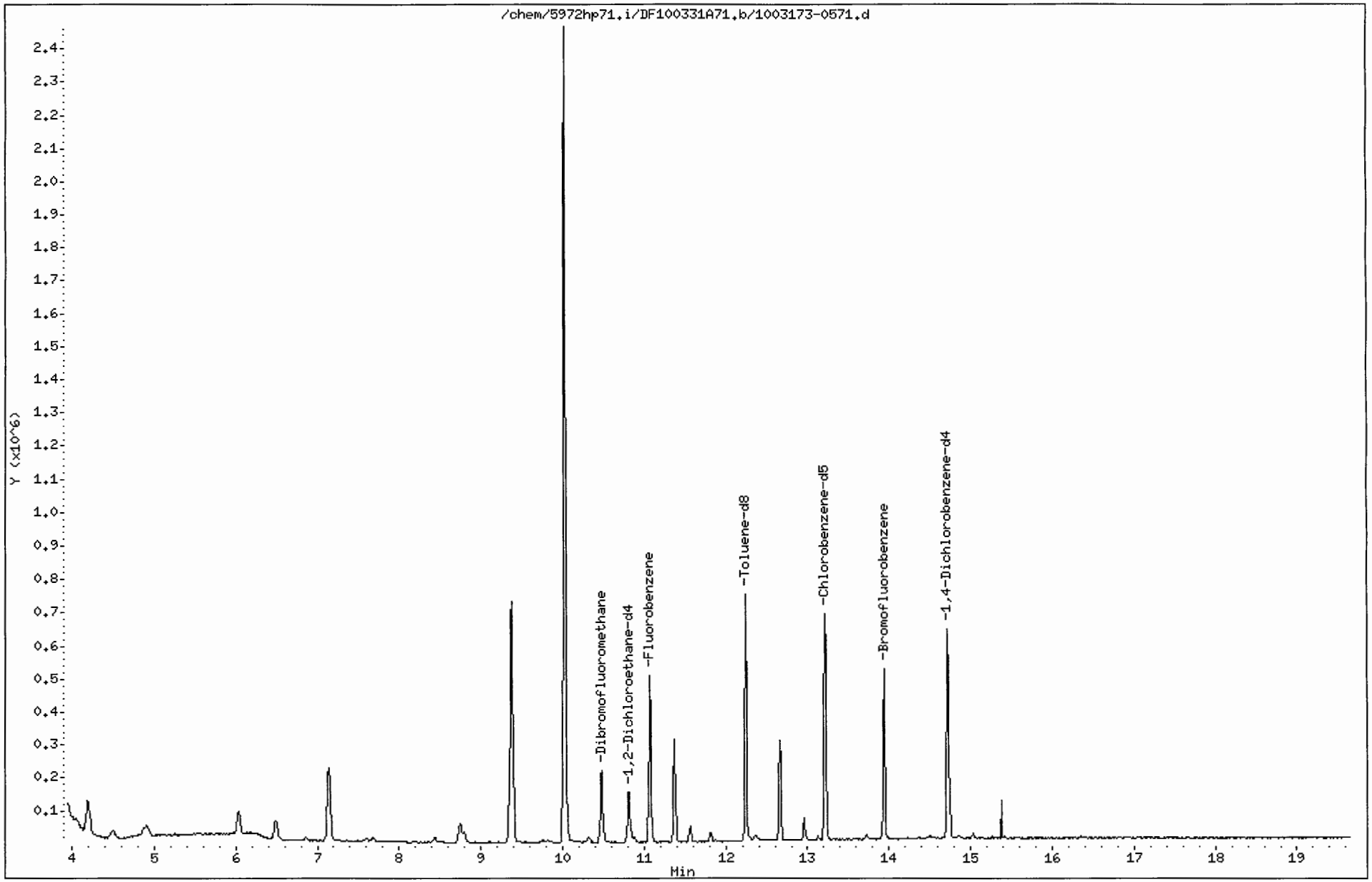
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.056	JB
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	2.8	
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	0.23	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	2.0	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	1.5	
95-50-1	1,2-Dichlorobenzene	0.15	J
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

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Date : 31-MAR-2010 18:33
Client ID: MW-12 Instrument: 5972hp71.i
Sample Info: 1003173-05:JAO
Purge Volume: 25.0 Operator: JAO
Column phase: SPB-624 Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Lab Smp Id: 1003173-05 Client Smp ID: MW-12
Inj Date : 31-MAR-2010 18:33
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-05:JAO
Misc Info : MW-12
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.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	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	11.073	11.069	(1.000)	412532	125.000	
* 2 Chlorobenzene-d5	117	13.210	13.216	(1.000)	344044	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.718	14.714	(1.000)	131159	125.000	
$ 4 Dibromofluoromethane	113	10.481	10.478	(0.947)	137213	123.200	4.9
$ 5 1,2-Dichloroethane-d4	65	10.816	10.812	(0.977)	107822	130.021	5.2
$ 6 Toluene-d8	98	12.245	12.241	(0.927)	422012	113.331	4.5
$ 7 Bromofluorobenzene	95	13.940	13.936	(0.947)	180804	120.752	4.8
8 Dichlorodifluoromethane	85	4.127	4.143	(0.373)	5193	3.52651	0.14(aM)
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	4.915	4.921	(0.444)	39019	43.5994	1.7
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	6.038	6.034	(0.545)	85814	162.674	6.5
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	7.605	7.601	(0.687)	5400	6.68460	0.27(a)
18 Acetone	43	Compound Not Detected.					

MIB 4.7.10

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
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	8.432	8.428	(0.762)	5684	8.40703	0.34(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	8.797	8.793	(0.794)	12431	13.4875	0.54
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	9.378	9.374	(0.847)	828645	486.600	19
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	10.028	10.024	(0.906)	975752	1041.63	42(A)
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	10.324	10.320	(0.932)	11456	7.35180	0.29(a)
42 1,1,1-Trichloroethane	97	10.511	10.507	(0.949)	3802	2.04373	0.082(aM)
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	10.836	10.842	(0.979)	15107	5.78462	0.23(a)
48 1,2-Dichloroethane	62	10.875	10.881	(0.982)	10827	10.1208	0.40(a)
49 Trichloroethene	130	11.368	11.374	(1.027)	76895	96.7911	3.9
51 1,2-Dichloropropane	63	11.565	11.561	(1.044)	13929	19.3049	0.77
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	12.284	12.290	(0.930)	3197	1.41239	0.056(a)
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	12.659	12.665	(0.958)	54857	69.2849	2.8
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	13.240	13.236	(1.002)	16301	5.66878	0.23(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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

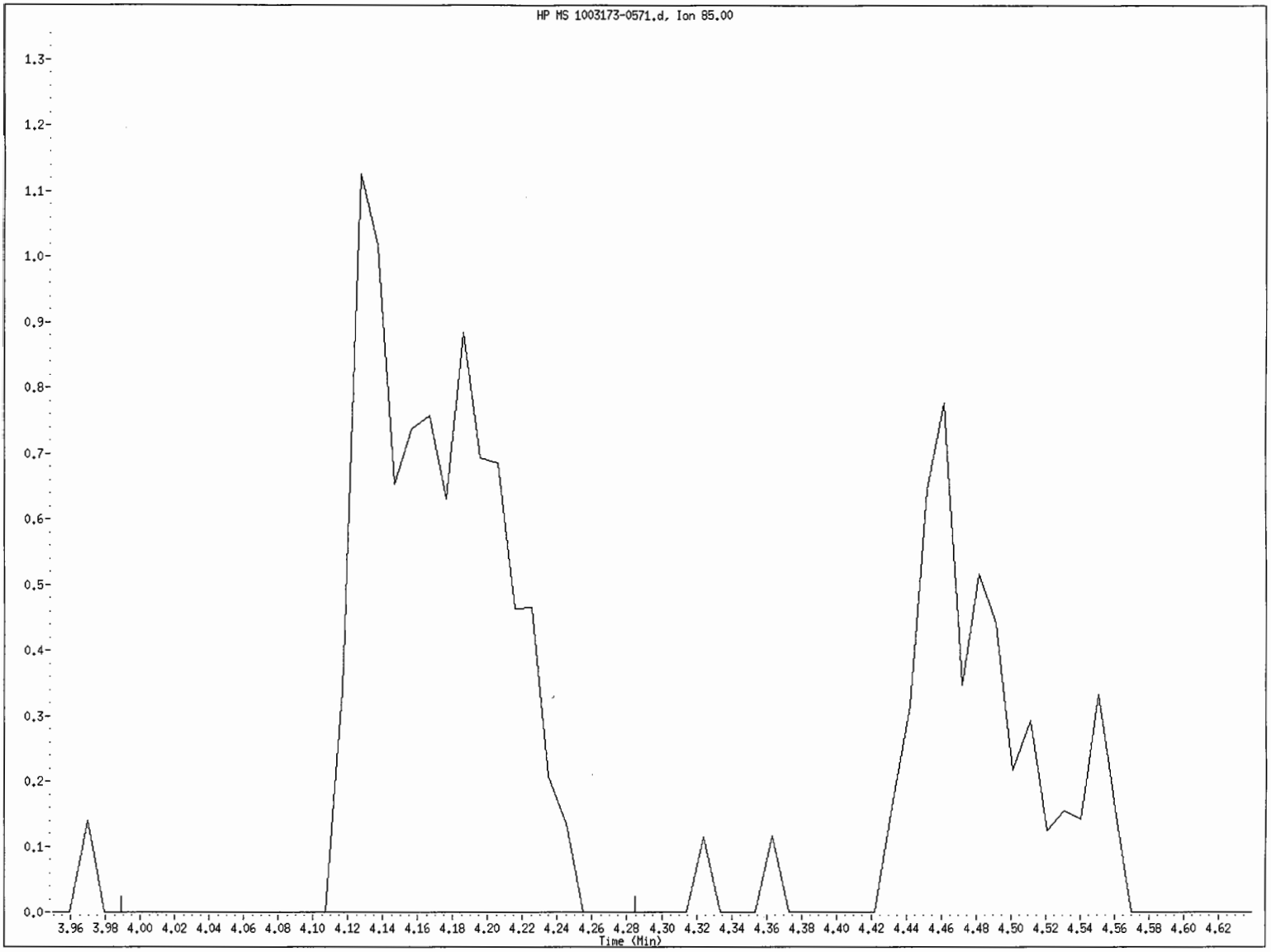
Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Report Date: 07-Apr-2010 16:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
79	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81	1,2,3-Trichloropropane	110	Compound Not Detected.					
80	trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92	1,3-Dichlorobenzene	146	Compound Not Detected.					
93	1,4-Dichlorobenzene	146	14.738	14.734	(1.001)	59200	37.2190	1.5
95	1,2-Dichlorobenzene	146	15.033	15.029	(1.021)	4742	3.66703	0.15(a)
97	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98	Hexachlorobutadiene	225	Compound Not Detected.					
99	Naphthalene	128	Compound Not Detected.					
M 102	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.
M - Compound response manually integrated.

Dichlorodifluoromethane CAS Number 75-71-8 Area = 5193 Manually integrated



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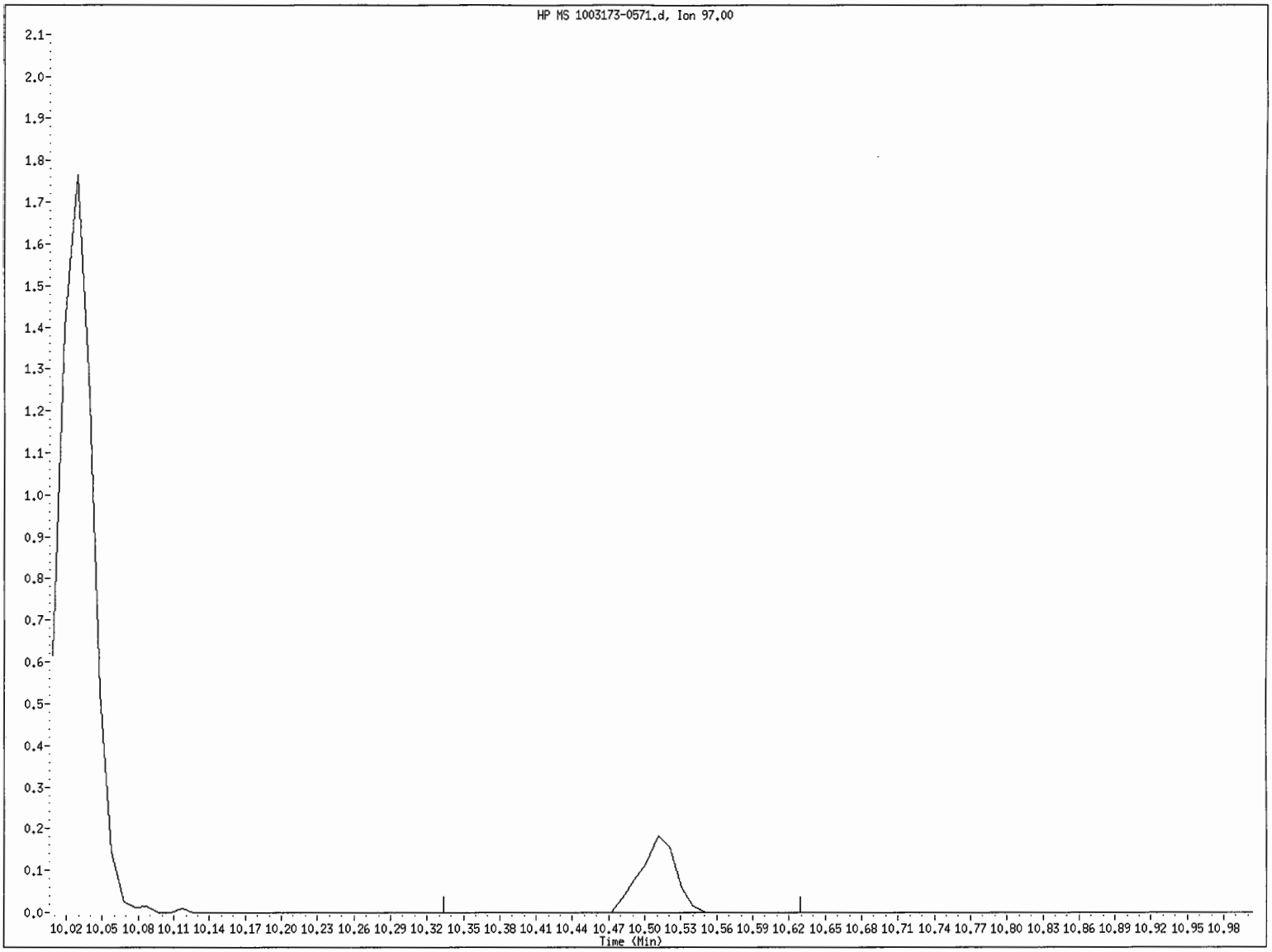
Client ID: MW-12
Instrument ID: 5972hp71.i
Injection Date and Time: 31-MAR-2010 18:33
Retention Time: 4.13
Operator ID: JAO

1,1,1-Trichloroethane CAS Number 71-55-6 Area = 3802 Manually integrated



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Client ID: MW-12
Instrument ID: 5972hp71.i
Injection Date and Time: 31-MAR-2010 18:33
Retention Time: 10.51
Operator ID: JAO

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

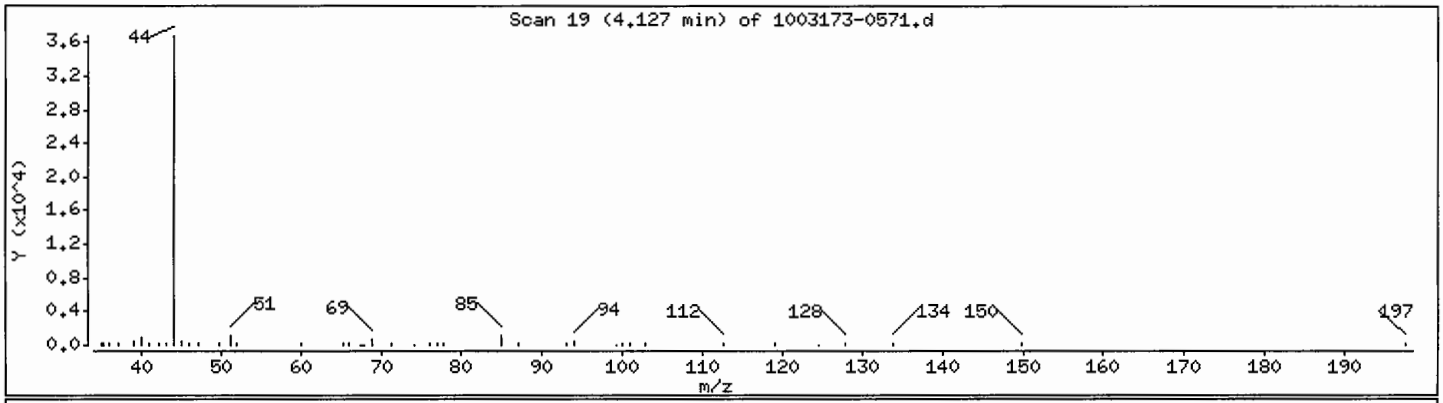
Client ID: MW-12 Instrument: 5972hp71.i

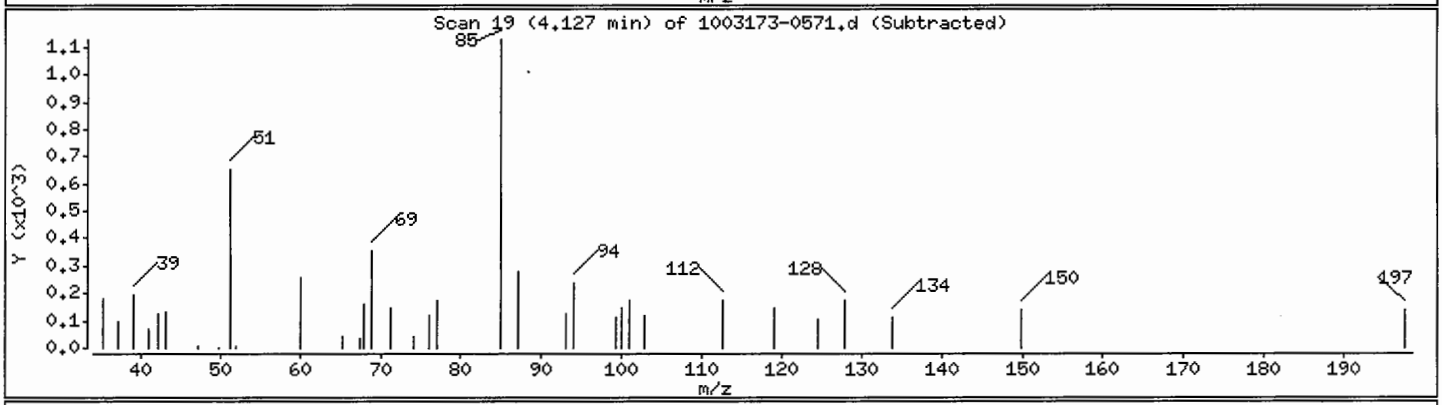
Sample Info: 1003173-05;JAO

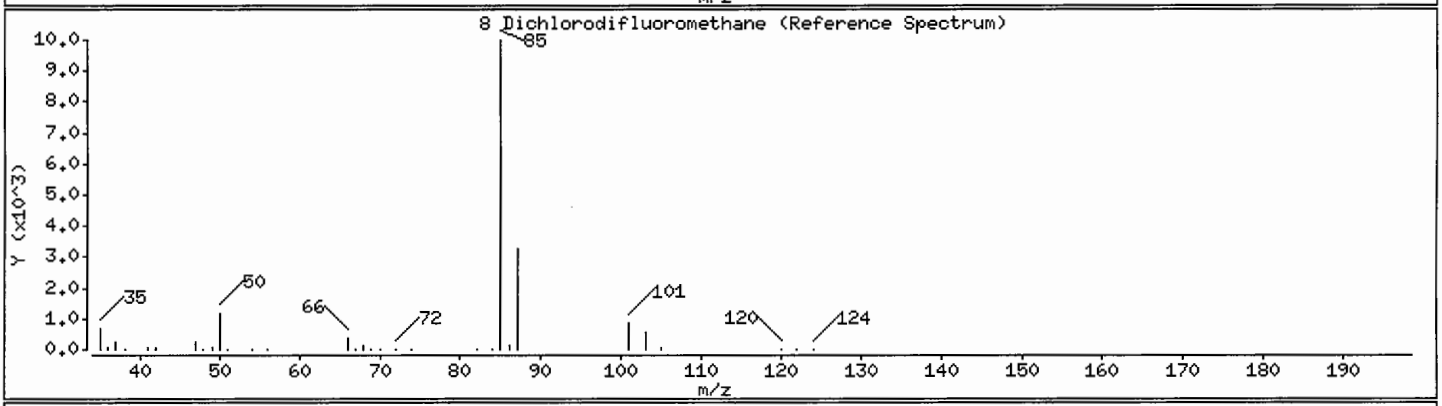
Purge Volume: 25.0 Operator: JAO

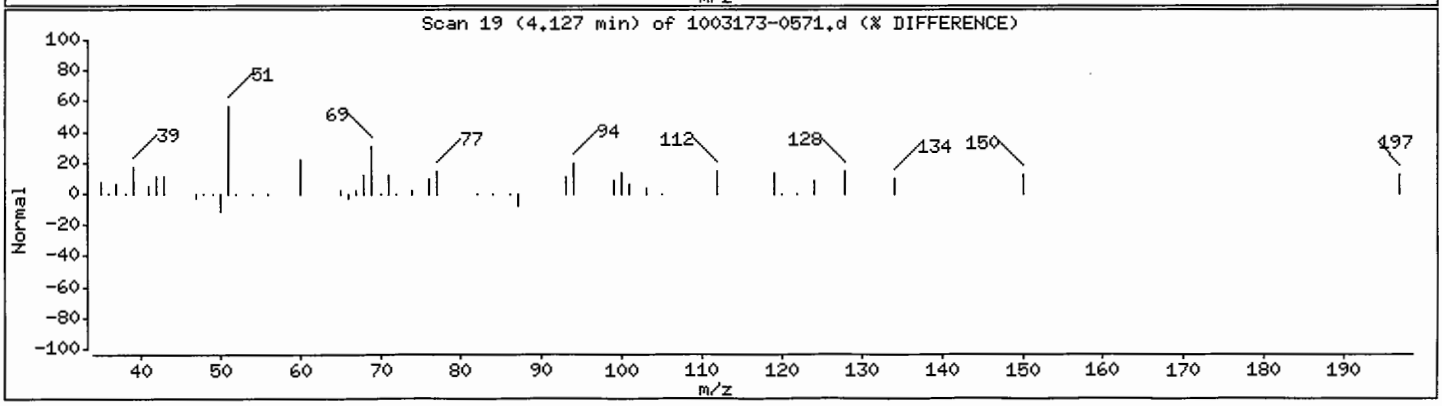
Column phase: SPB-624 Column diameter: 0.32

8 Dichlorodifluoromethane Concentration: 0.14 ug/L









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Date : 31-MAR-2010 18:33

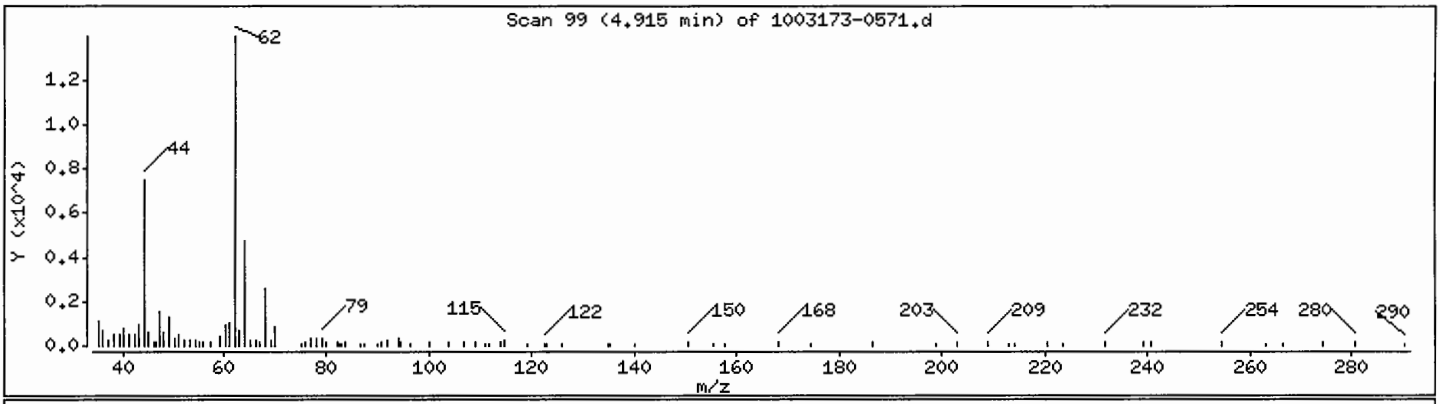
Client ID: MW-12 Instrument: 5972hp71.i

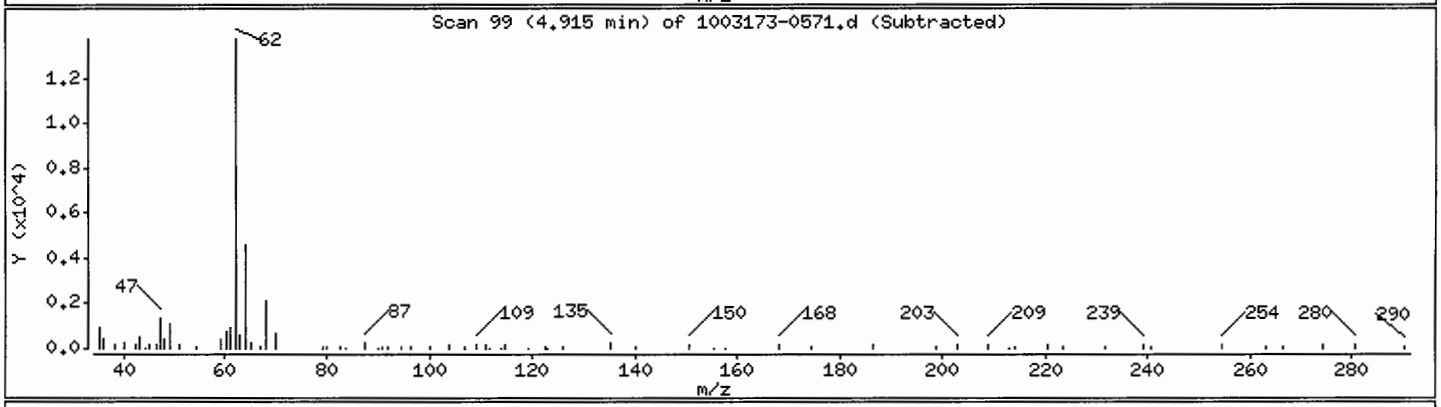
Sample Info: 1003173-05;JAO

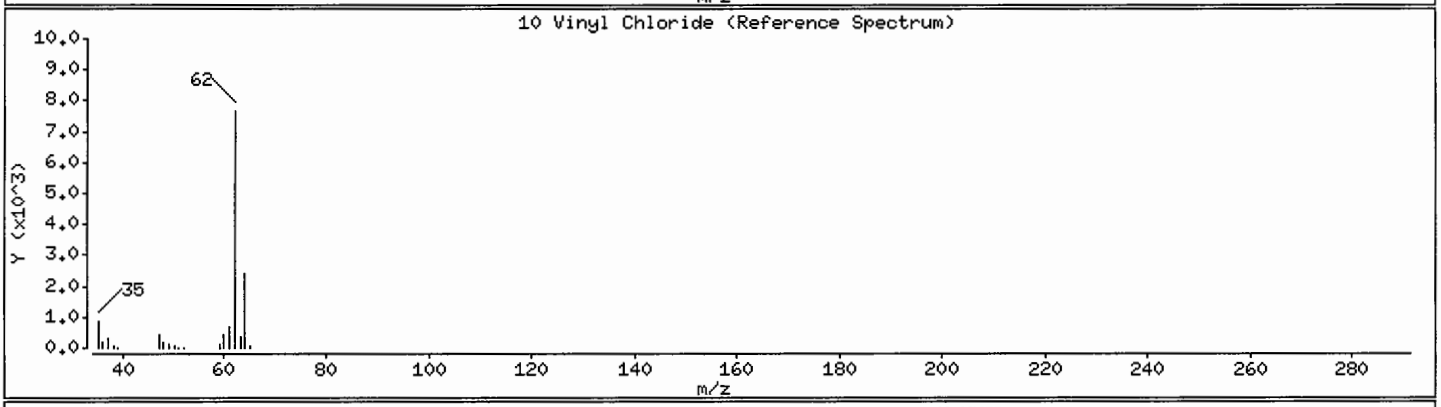
Purge Volume: 25.0 Operator: JAO

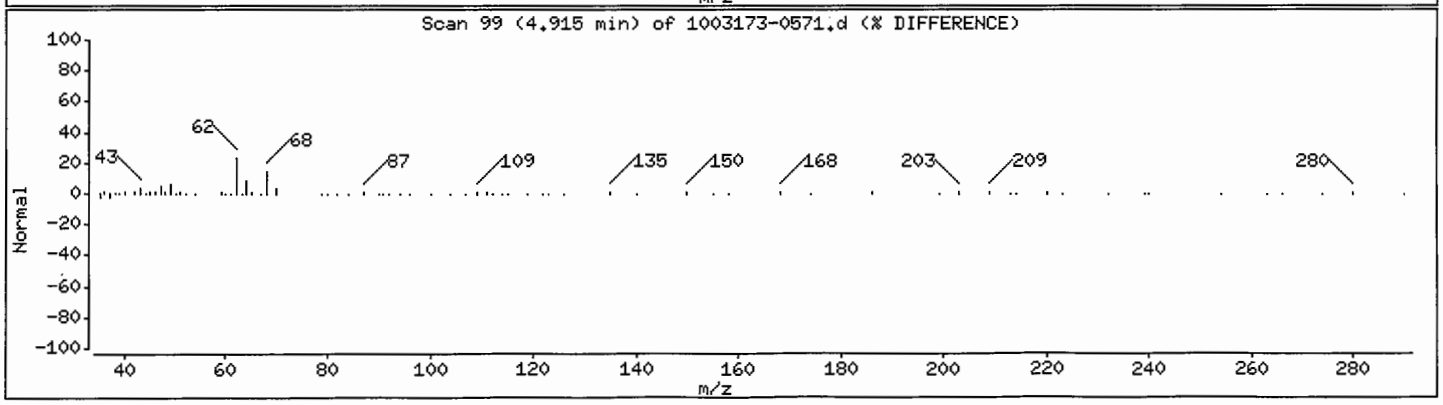
Column phase: SPB-624 Column diameter: 0.32

10 Vinyl Chloride Concentration: 1.7 ug/L









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Date : 31-MAR-2010 18:33

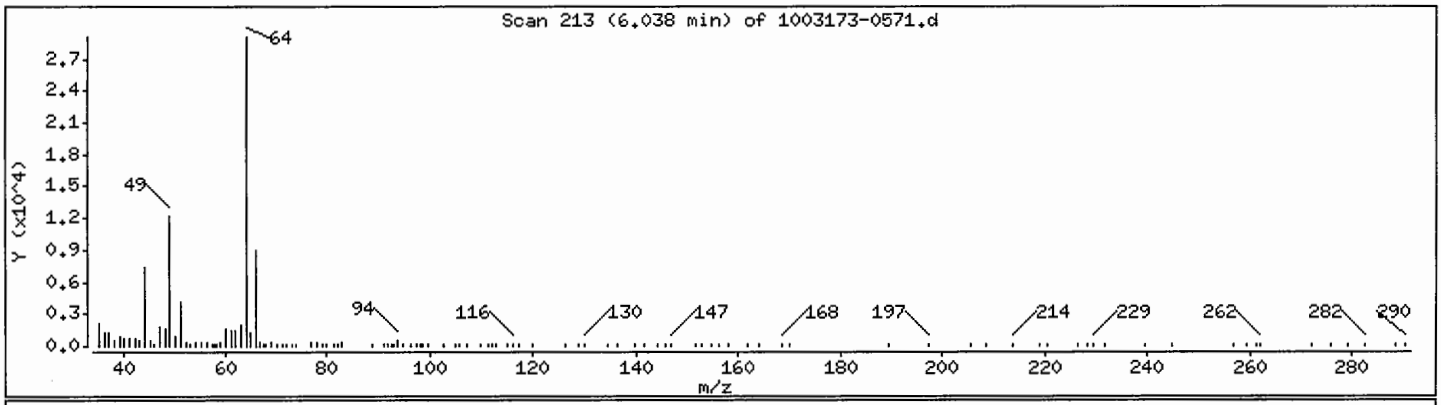
Client ID: MW-12 Instrument: 5972hp71.i

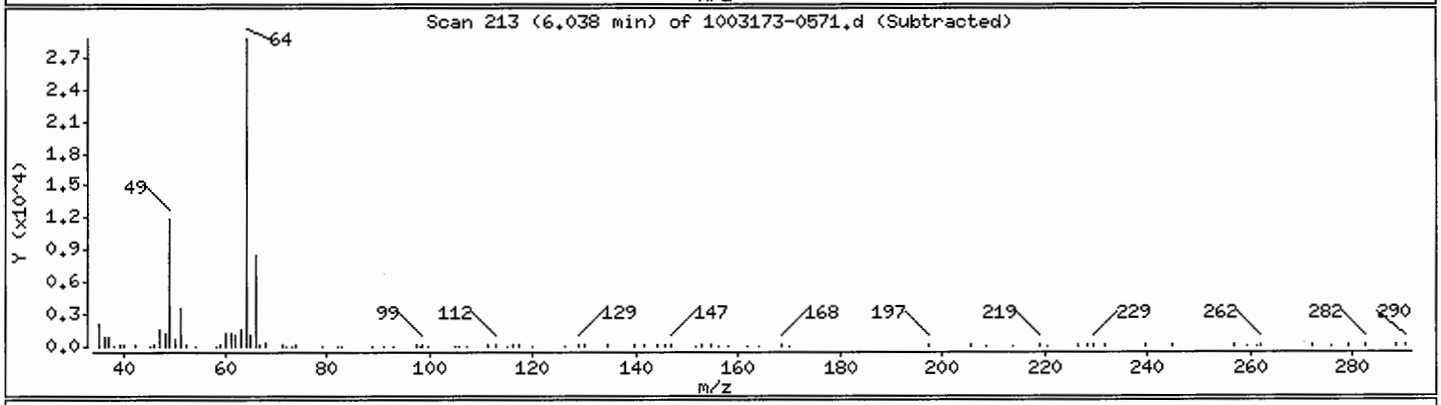
Sample Info: 1003173-05;JAO

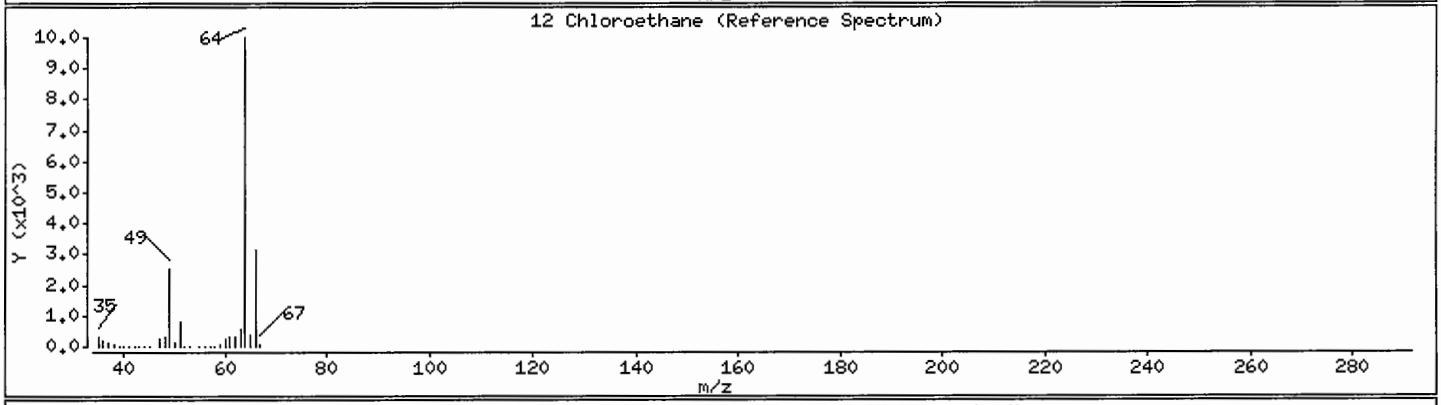
Purge Volume: 25.0 Operator: JAO

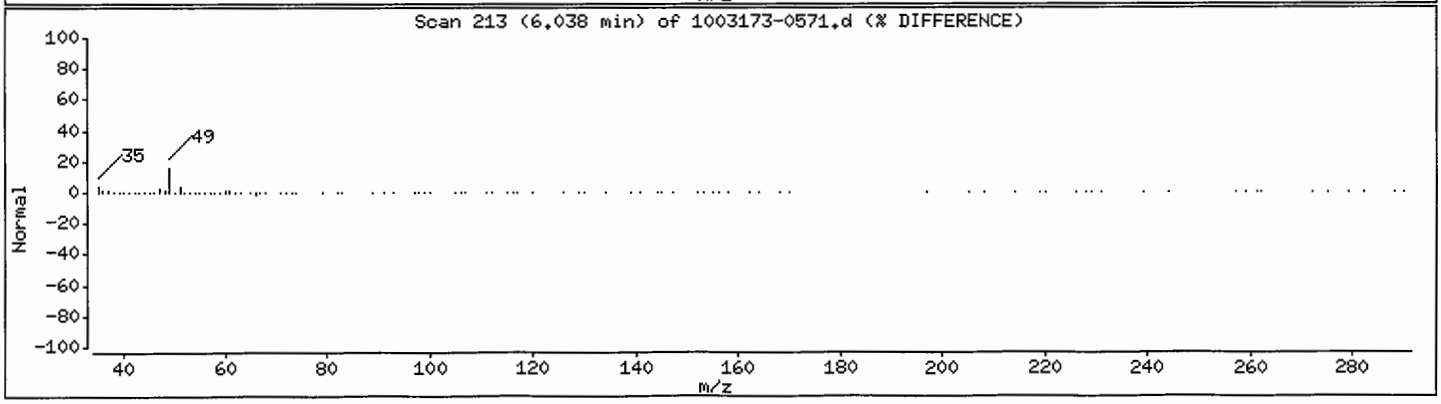
Column phase: SPB-624 Column diameter: 0.32

12 Chloroethane Concentration: 6.5 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

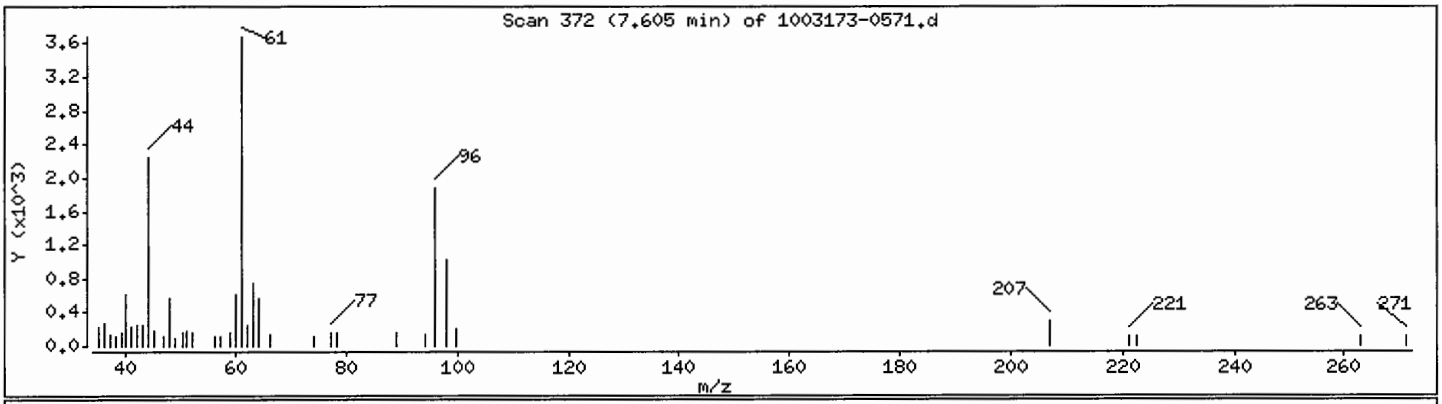
Client ID: MW-12 Instrument: 5972hp71.i

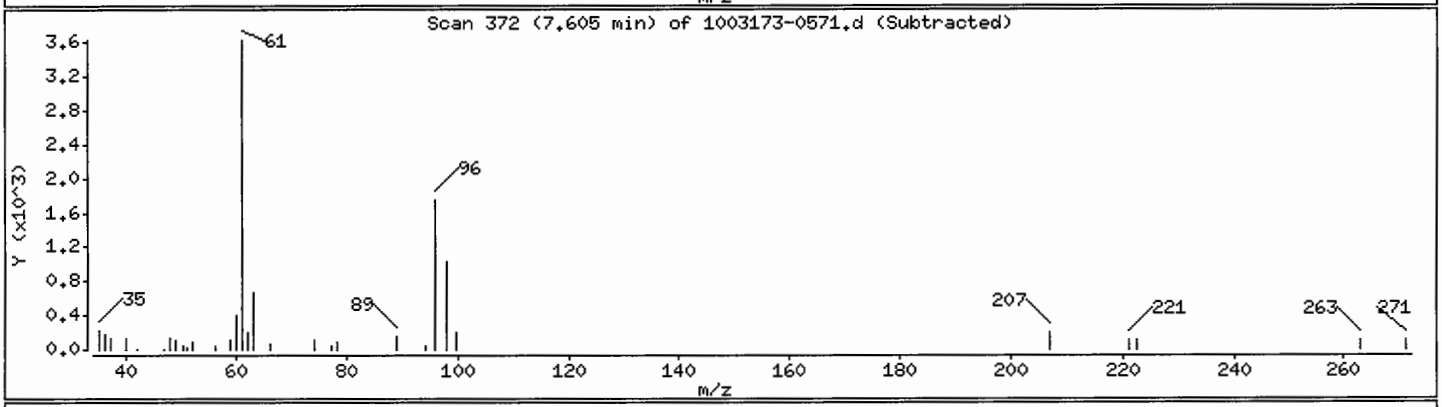
Sample Info: 1003173-05:JAO

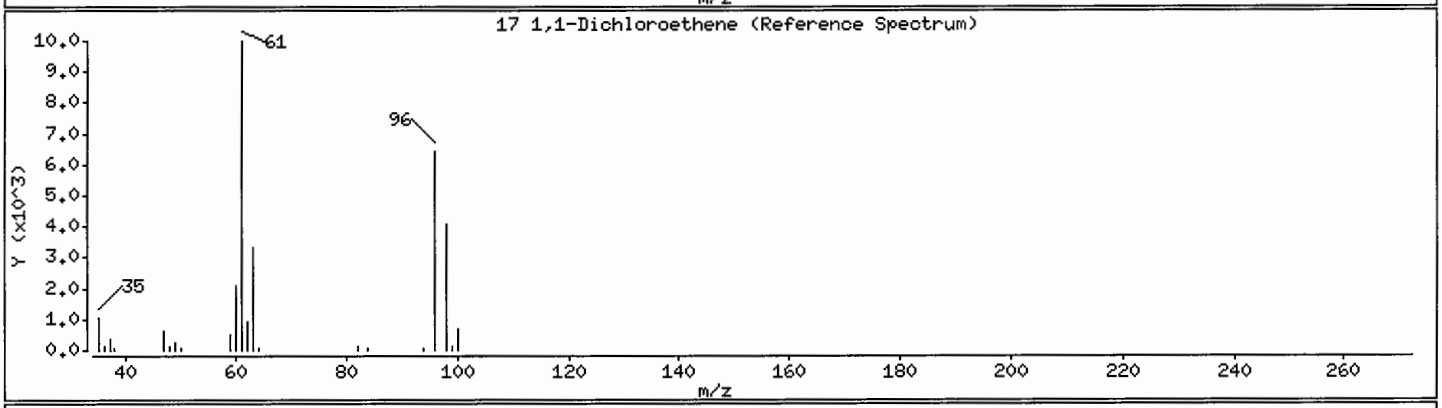
Purge Volume: 25.0 Operator: JAO

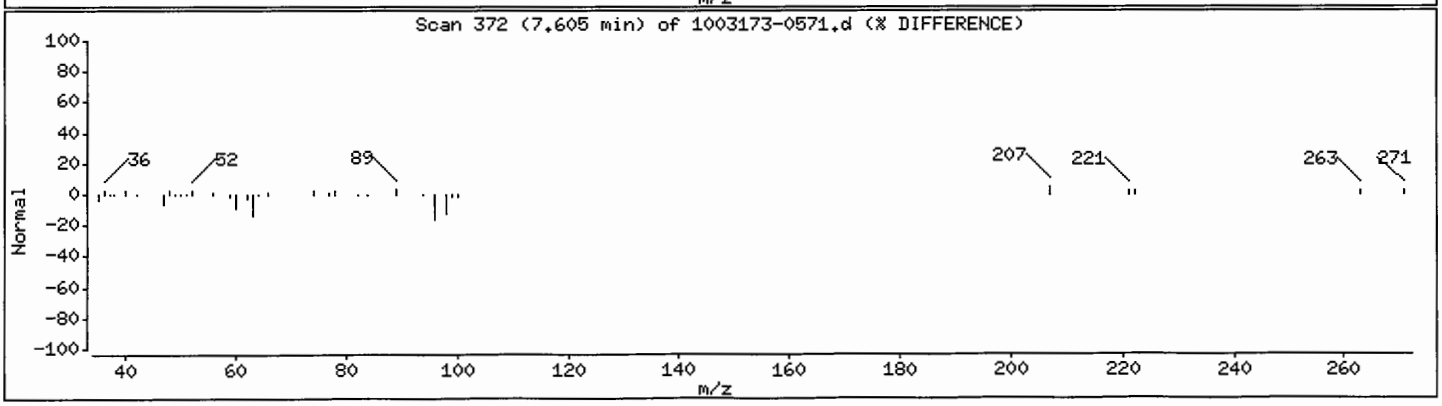
Column phase: SPB-624 Column diameter: 0.32

17 1,1-Dichloroethene Concentration: 0.27 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

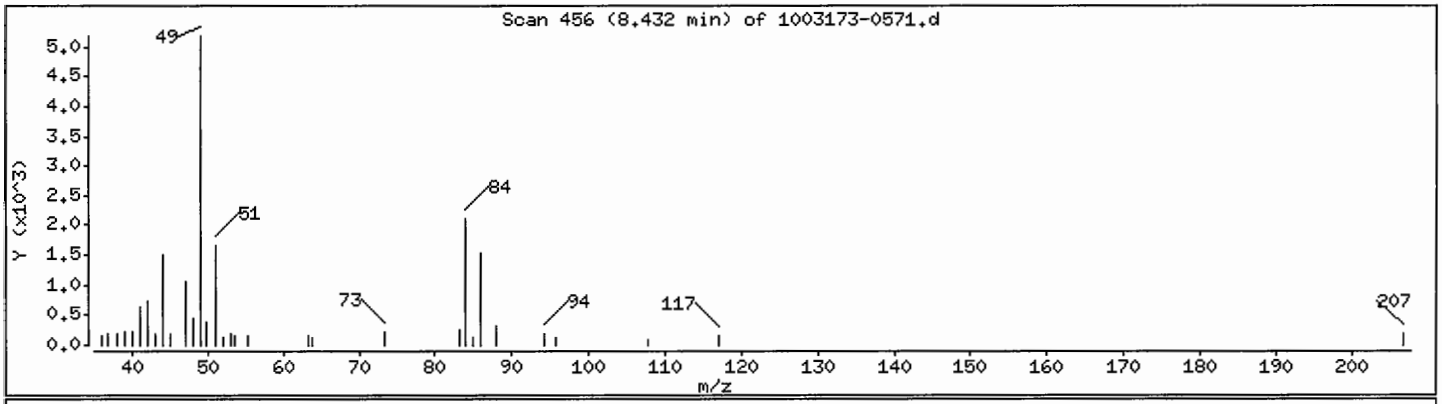
Client ID: MW-12 Instrument: 5972hp71.i

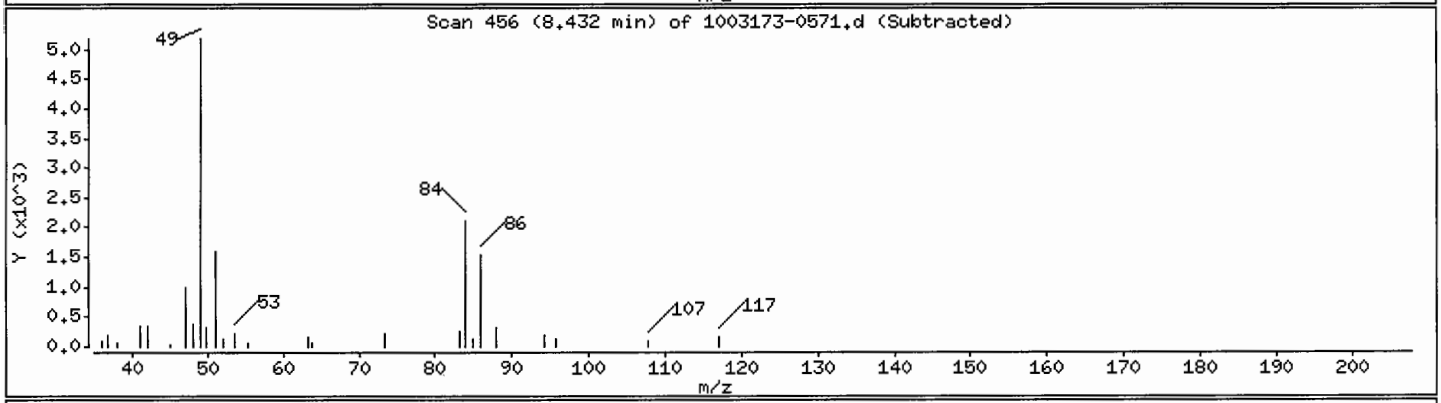
Sample Info: 1003173-05:JAO

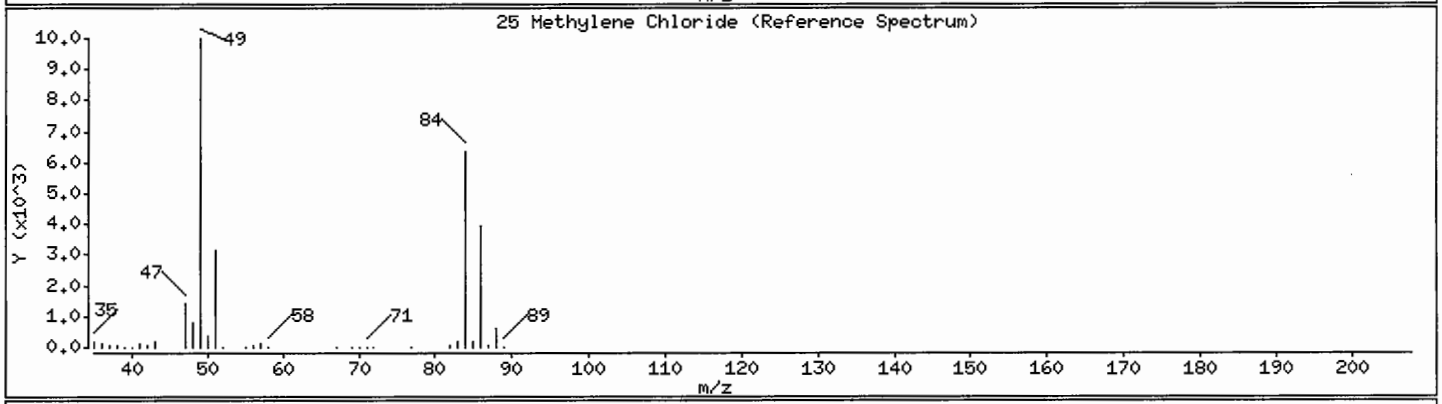
Purge Volume: 25.0 Operator: JAO

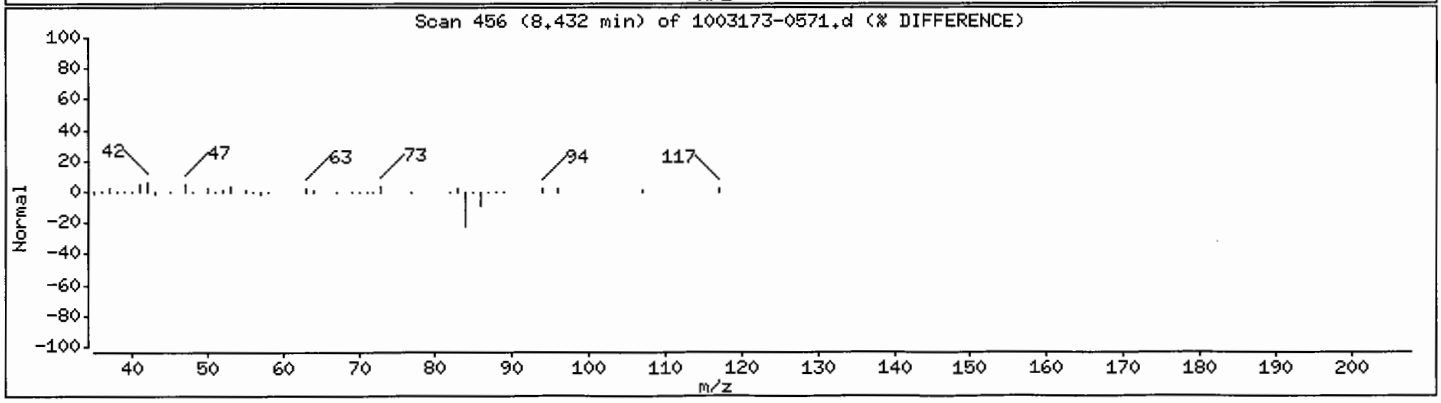
Column phase: SPB-624 Column diameter: 0.32

25 Methylene Chloride Concentration: 0.34 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

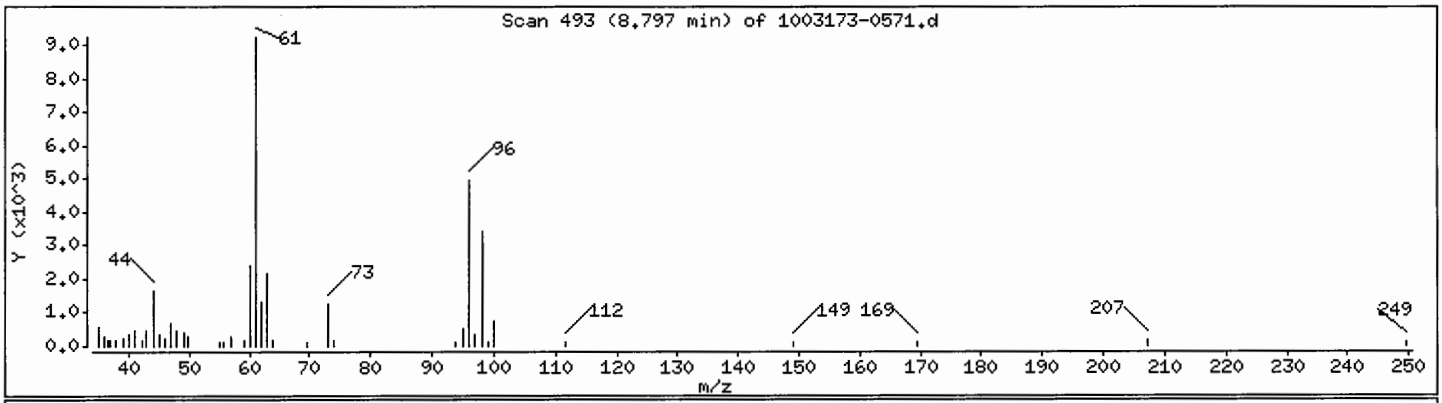
Client ID: MW-12 Instrument: 5972hp71.i

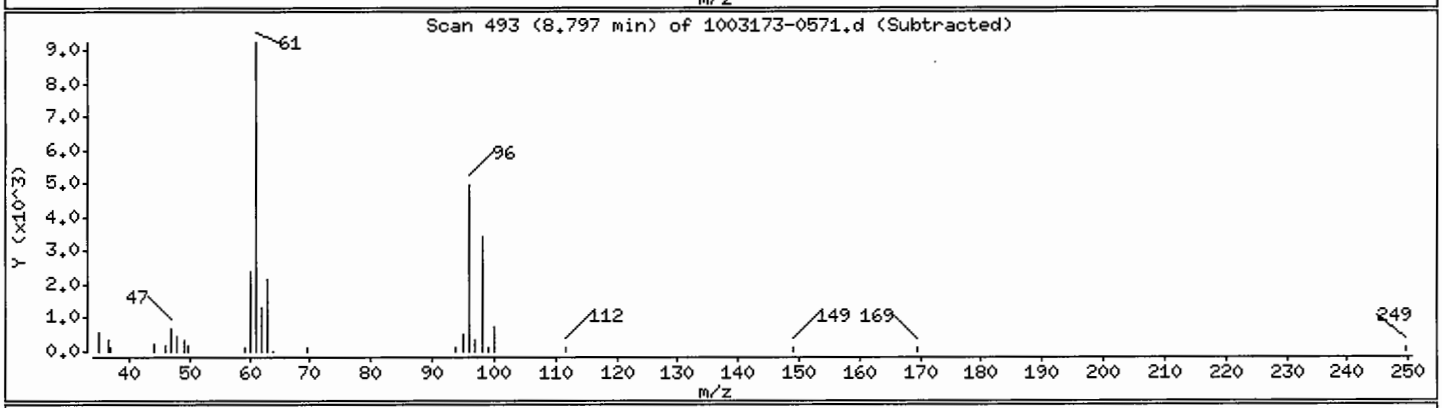
Sample Info: 1003173-05:JAO

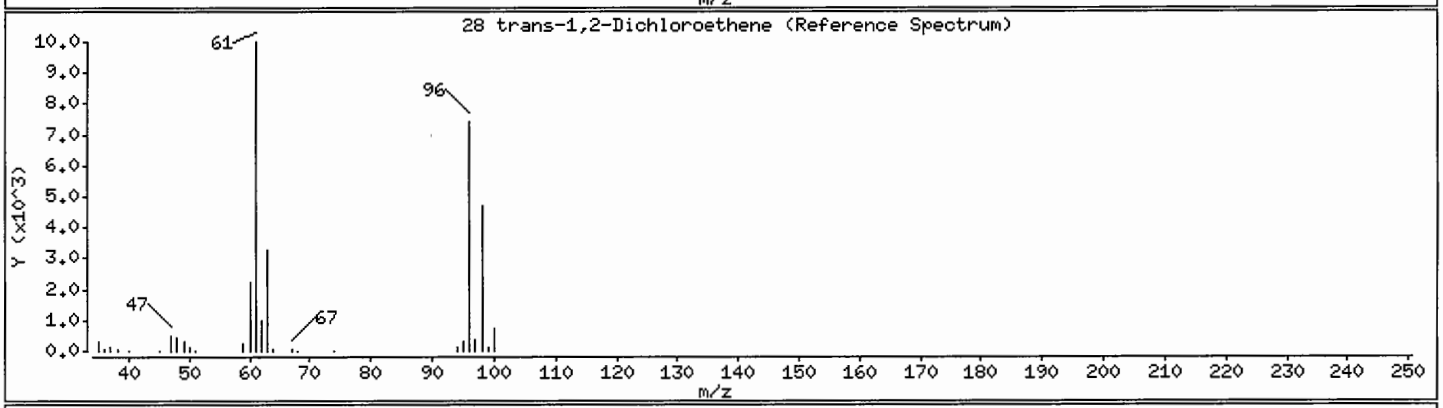
Purge Volume: 25.0 Operator: JAO

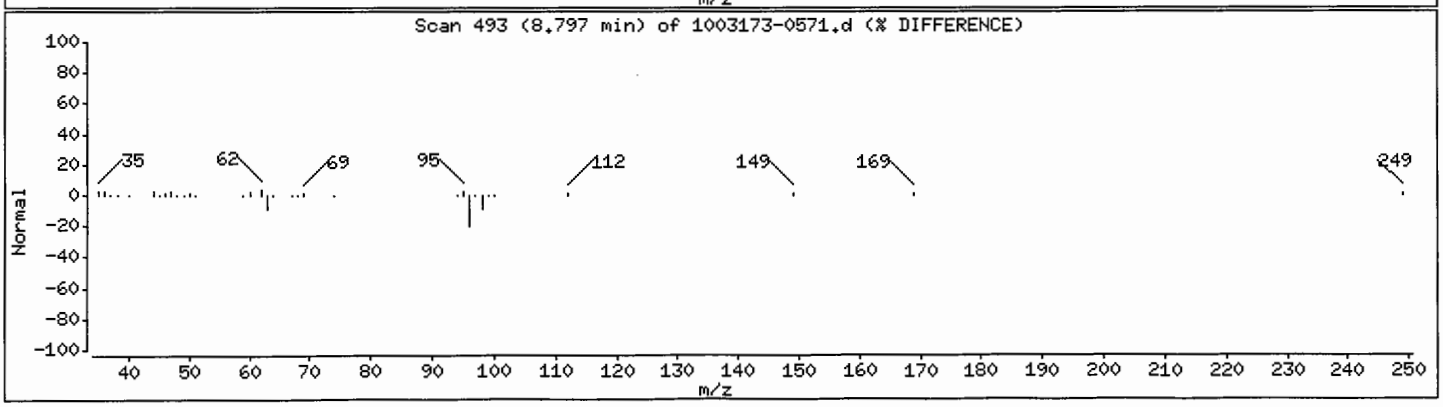
Column phase: SPB-624 Column diameter: 0.32

28 trans-1,2-Dichloroethene Concentration: 0.54 ug/L









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Date : 31-MAR-2010 18:33

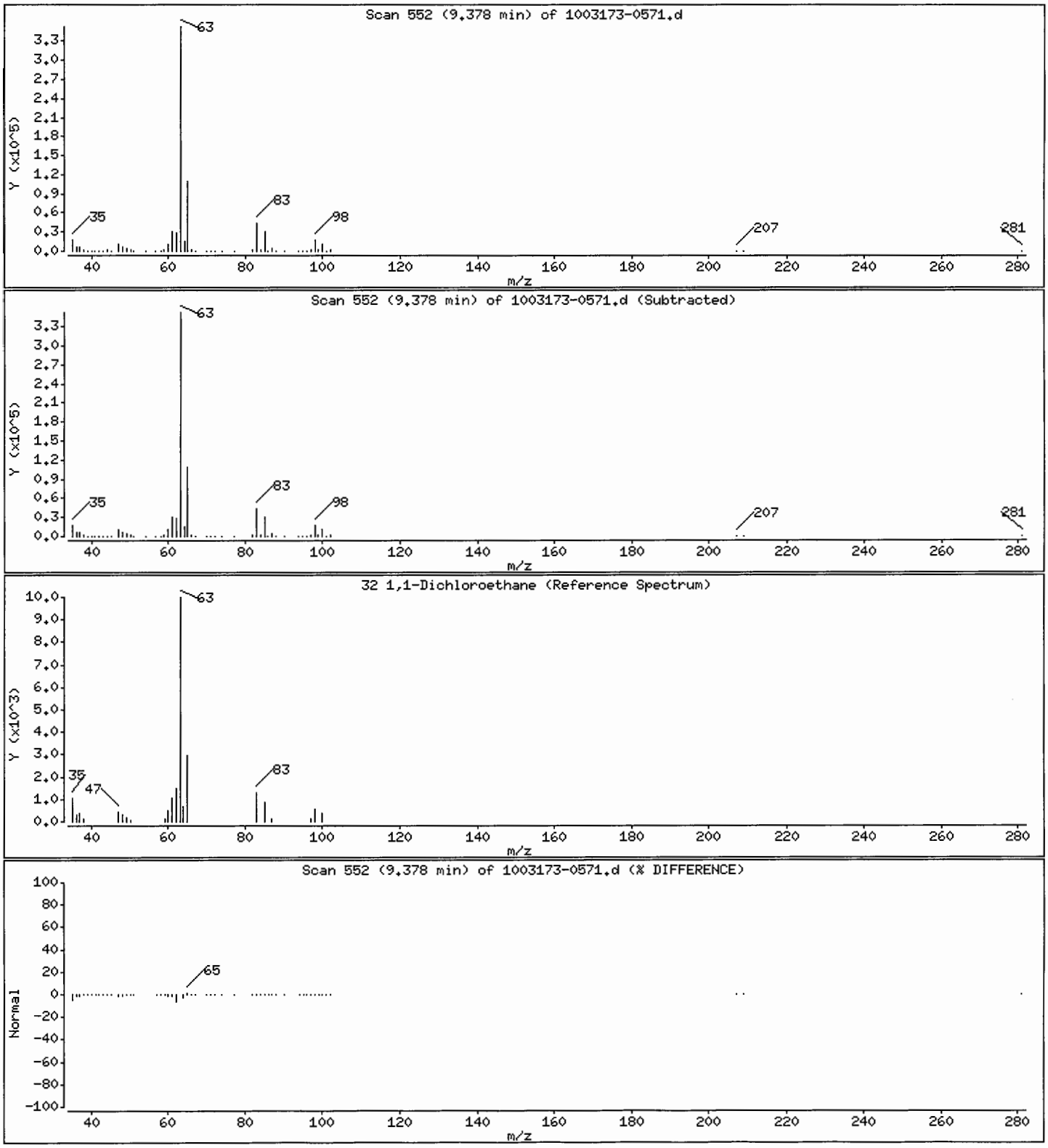
Client ID: MW-12 Instrument: 5972hp71.i

Sample Info: 1003173-05:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 19 ug/L



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Date : 31-MAR-2010 18:33

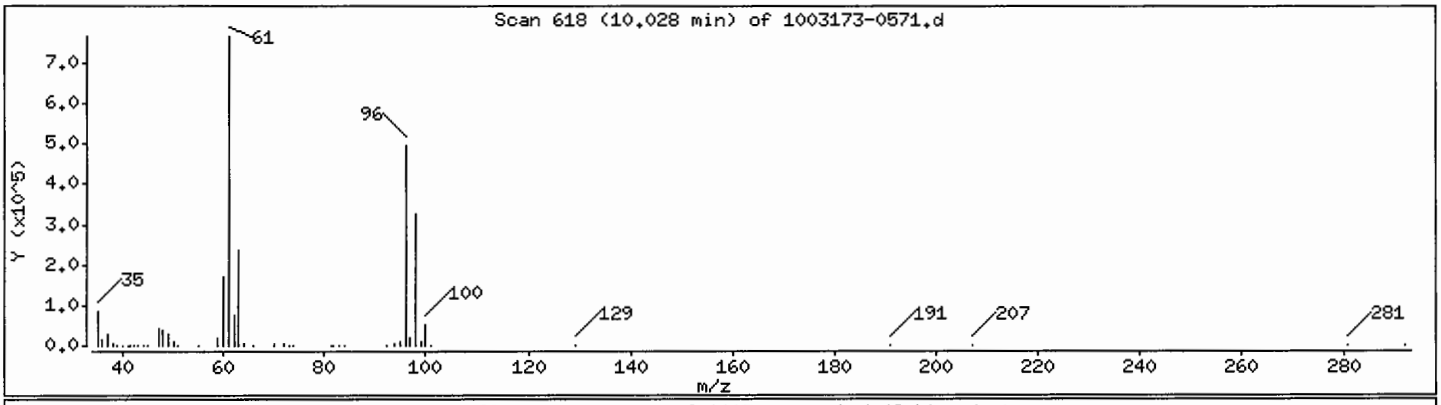
Client ID: MW-12 Instrument: 5972hp71.i

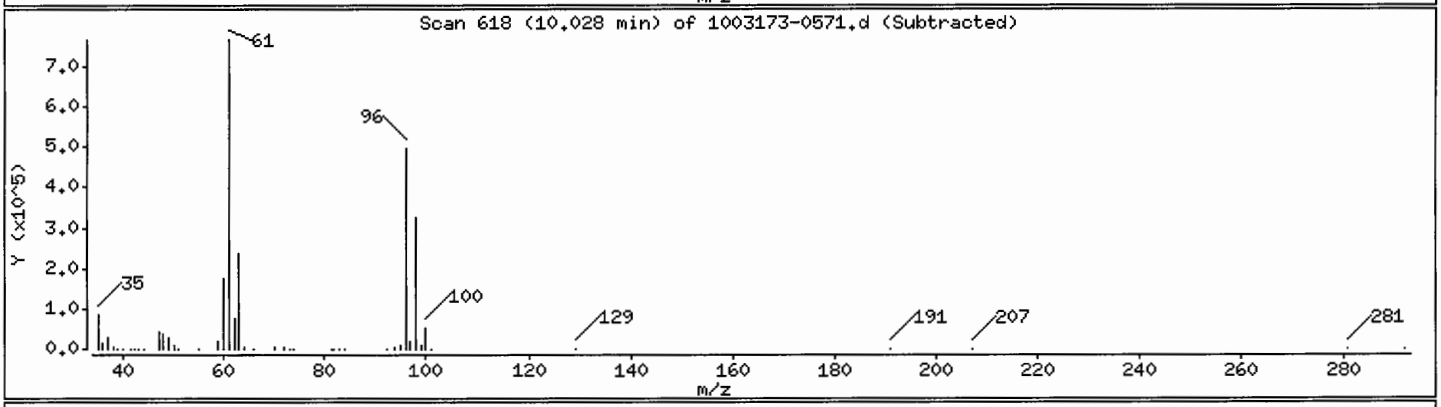
Sample Info: 1003173-05:JAO

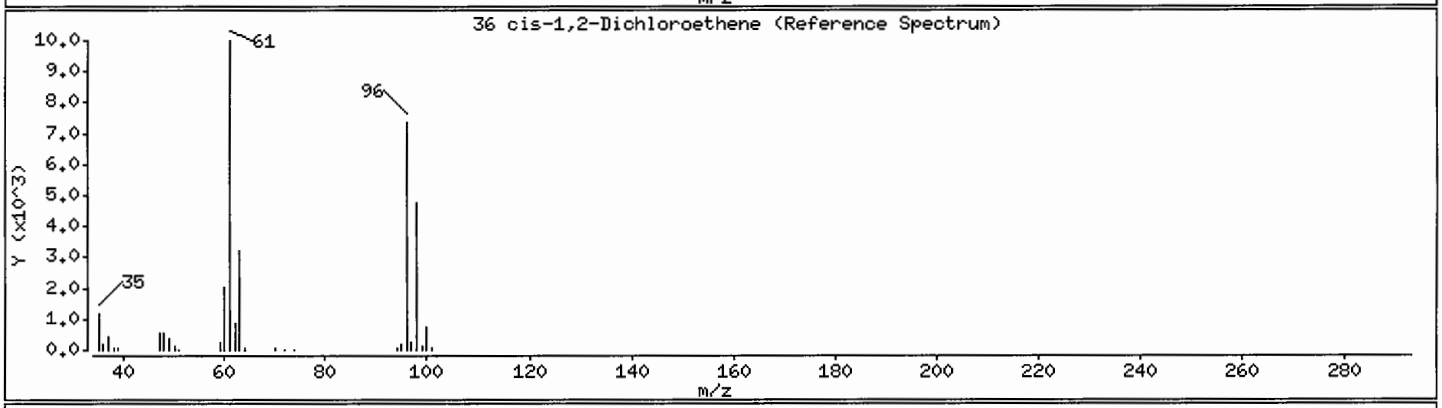
Purge Volume: 25.0 Operator: JAO

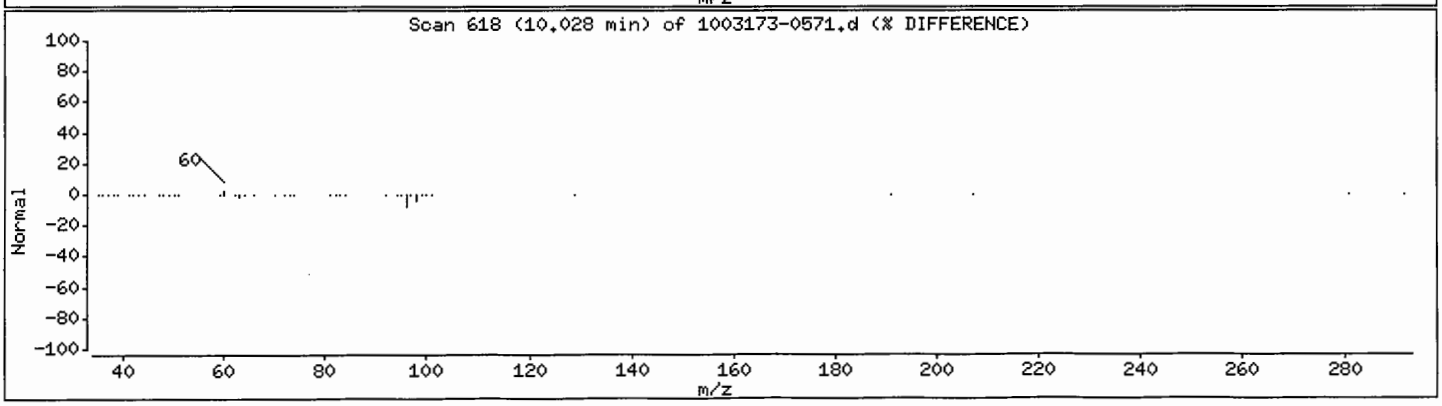
Column phase: SPB-624 Column diameter: 0.32

36 cis-1,2-Dichloroethene Concentration: 42 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

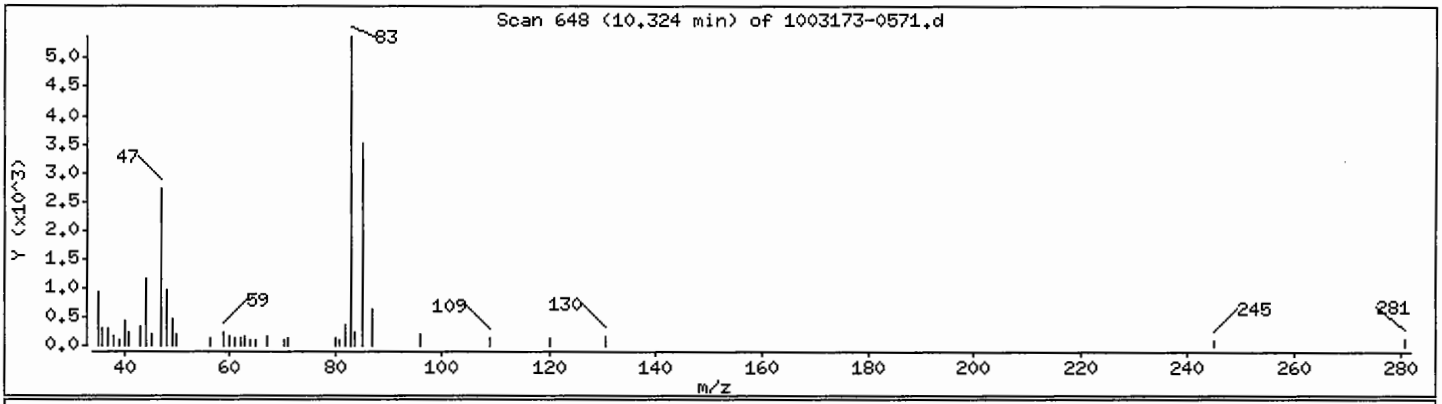
Client ID: MW-12 Instrument: 5972hp71.i

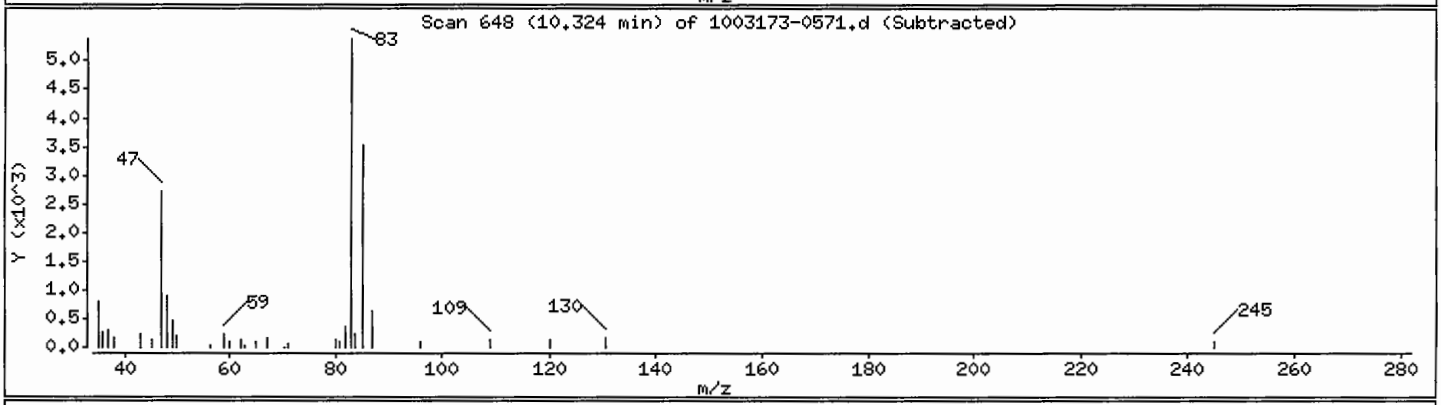
Sample Info: 1003173-05:JAO

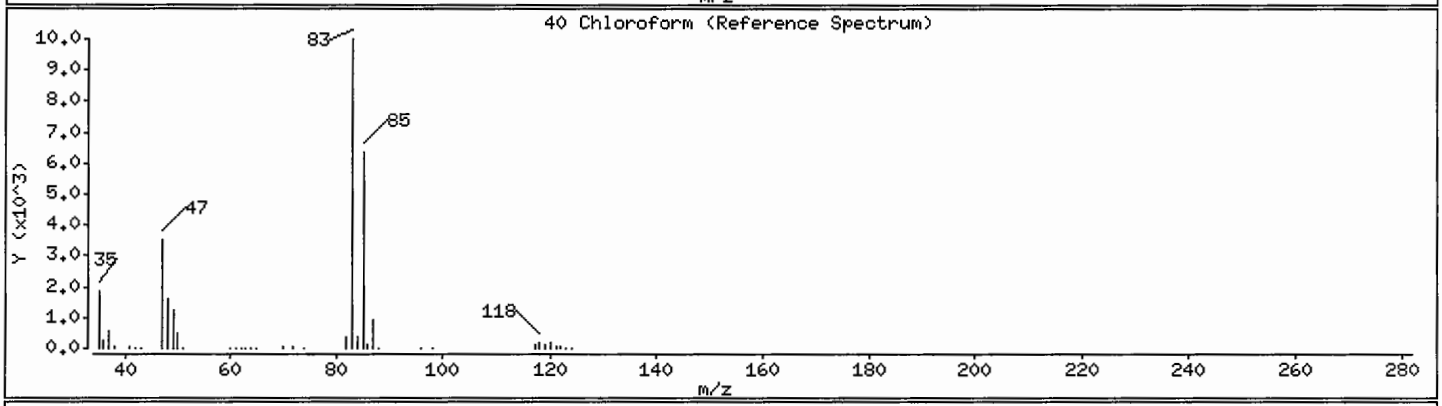
Purge Volume: 25.0 Operator: JAO

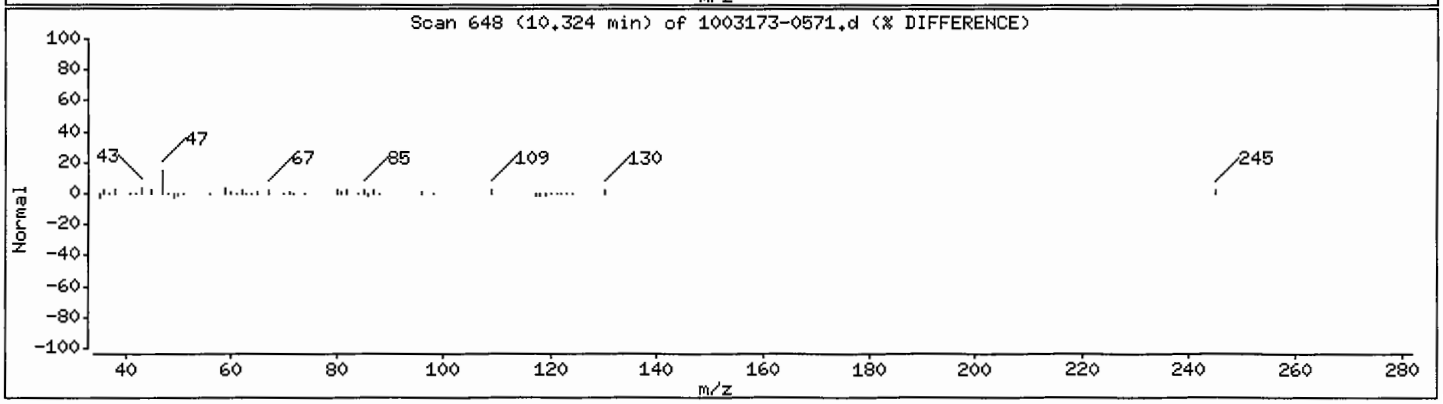
Column phase: SPB-624 Column diameter: 0.32

40 Chloroform Concentration: 0.29 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

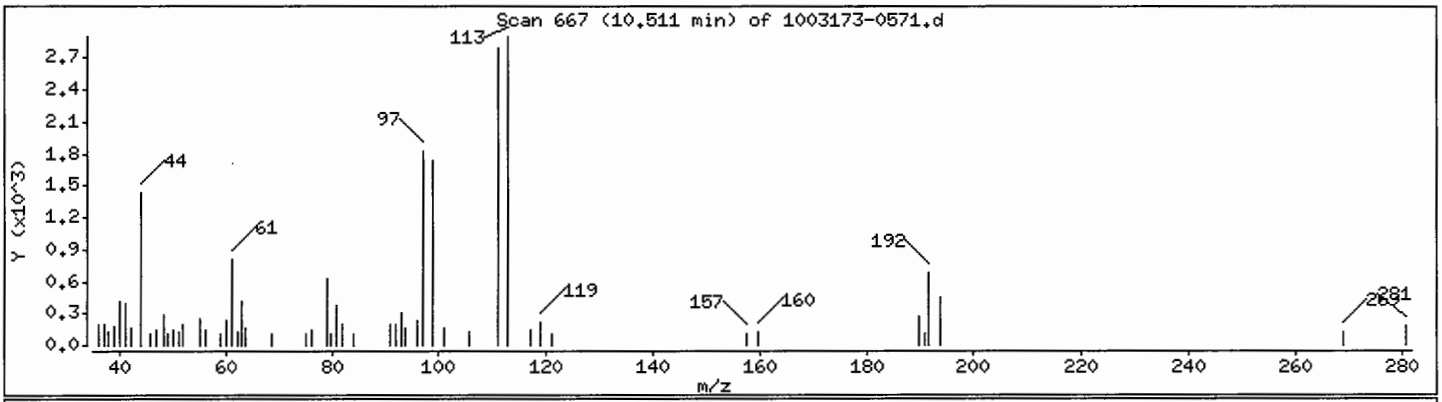
Client ID: MW-12 Instrument: 5972hp71.i

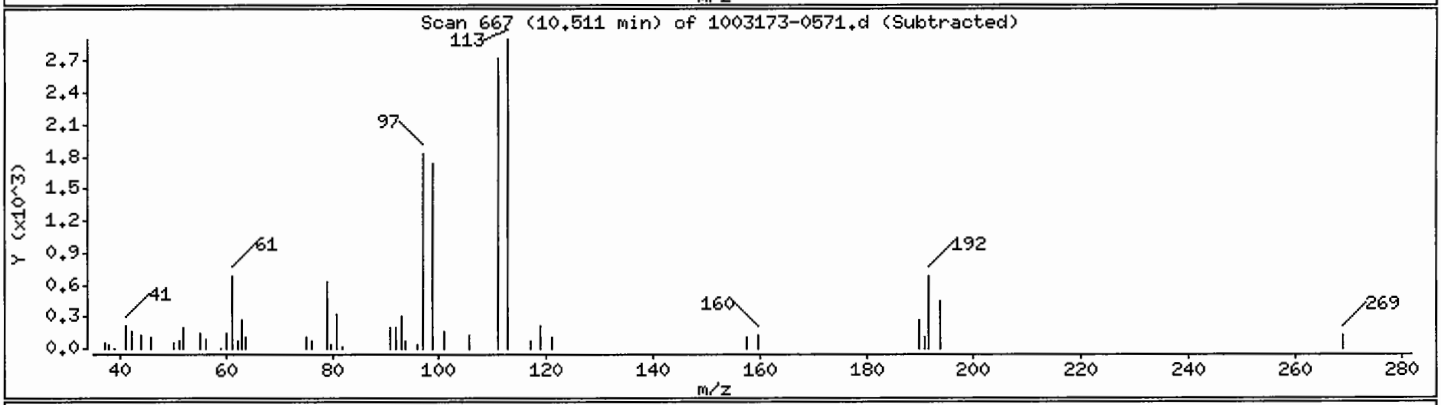
Sample Info: 1003173-05:JAO

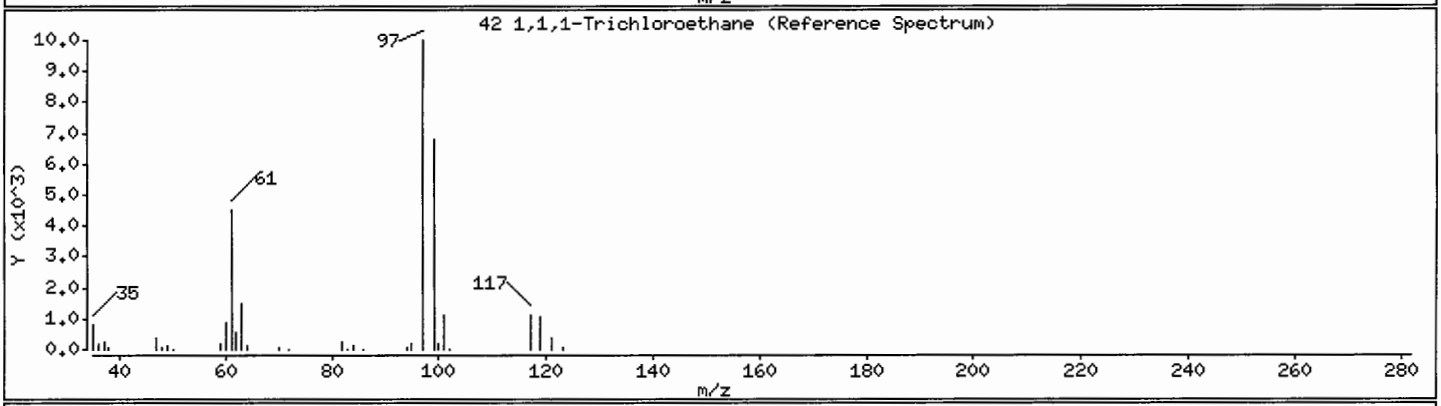
Purge Volume: 25.0 Operator: JAO

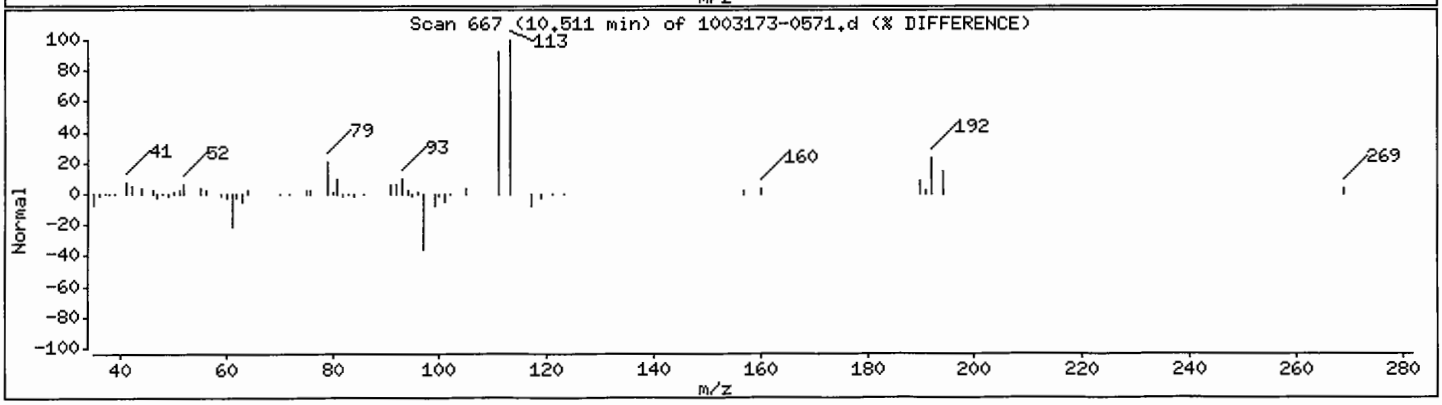
Column phase: SPB-624 Column diameter: 0.32

42 1,1,1-Trichloroethane Concentration: 0.082 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

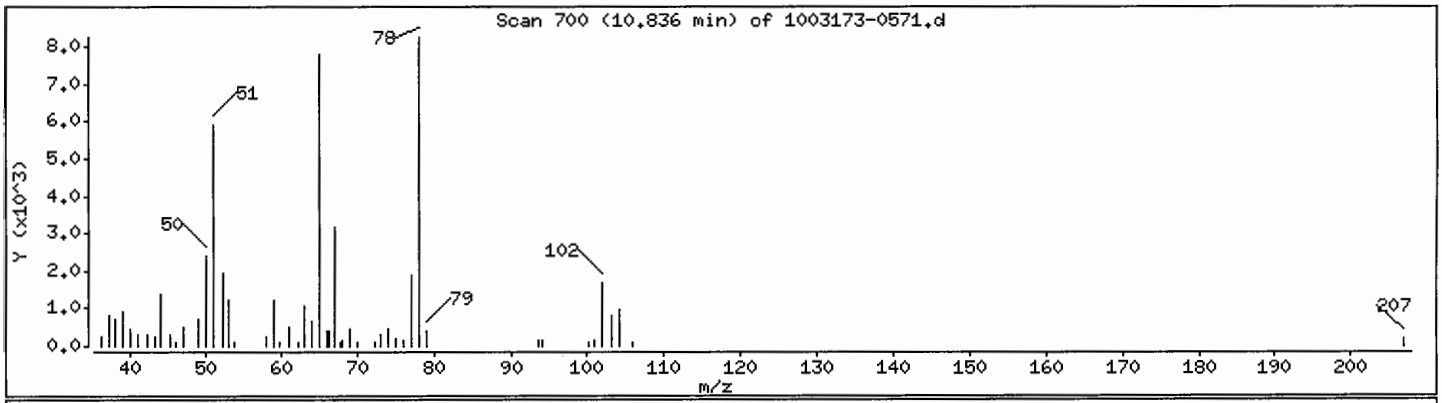
Client ID: MW-12 Instrument: 5972hp71.i

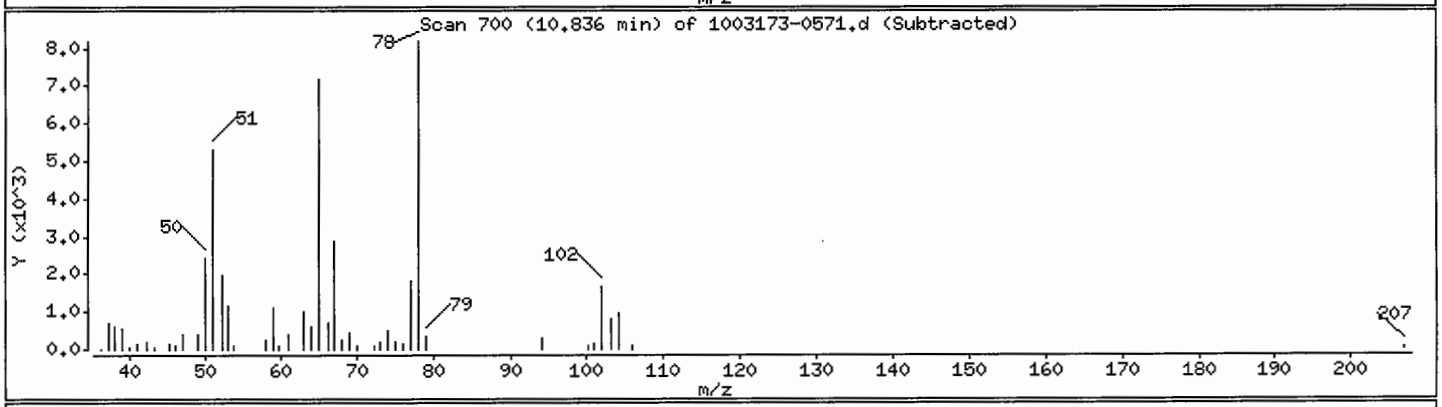
Sample Info: 1003173-05;JAO

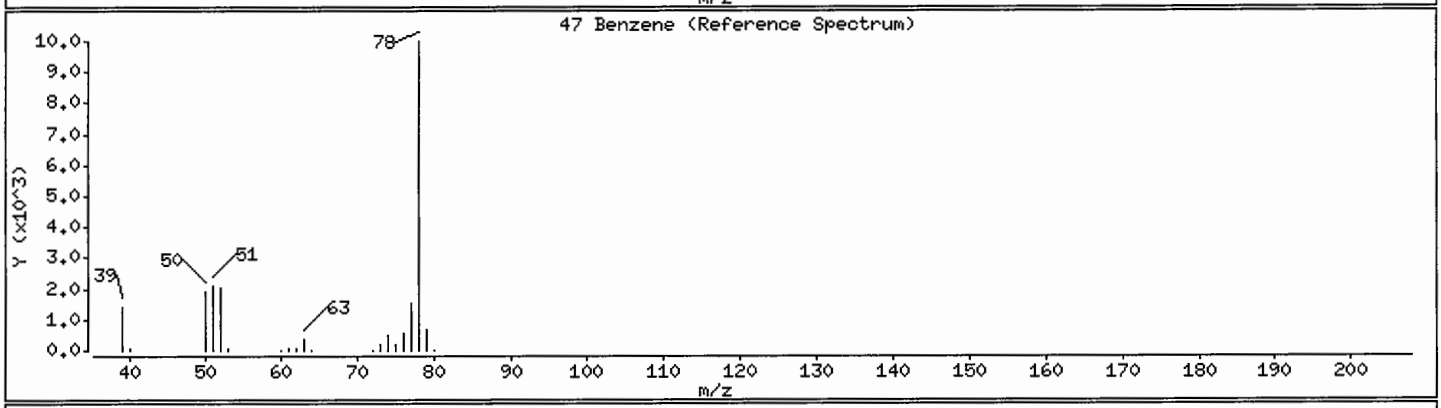
Purge Volume: 25.0 Operator: JAO

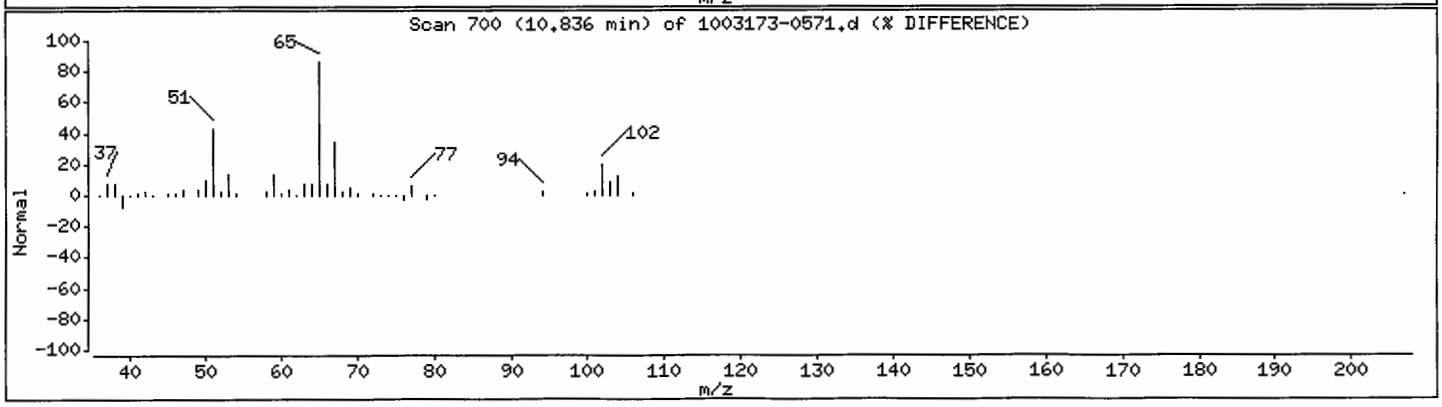
Column phase: SPB-624 Column diameter: 0.32

47 Benzene Concentration: 0.23 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

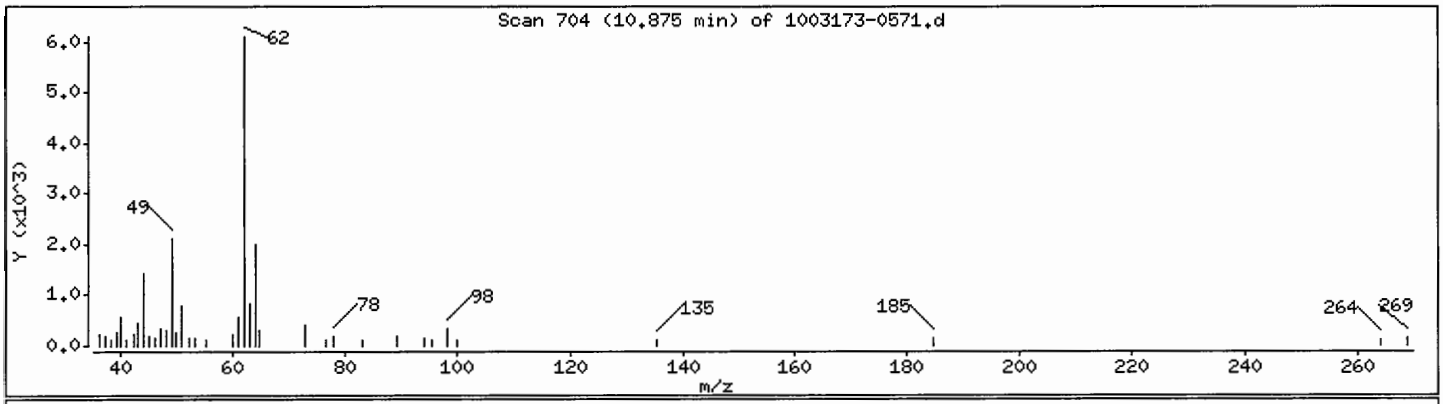
Client ID: MW-12 Instrument: 5972hp71.i

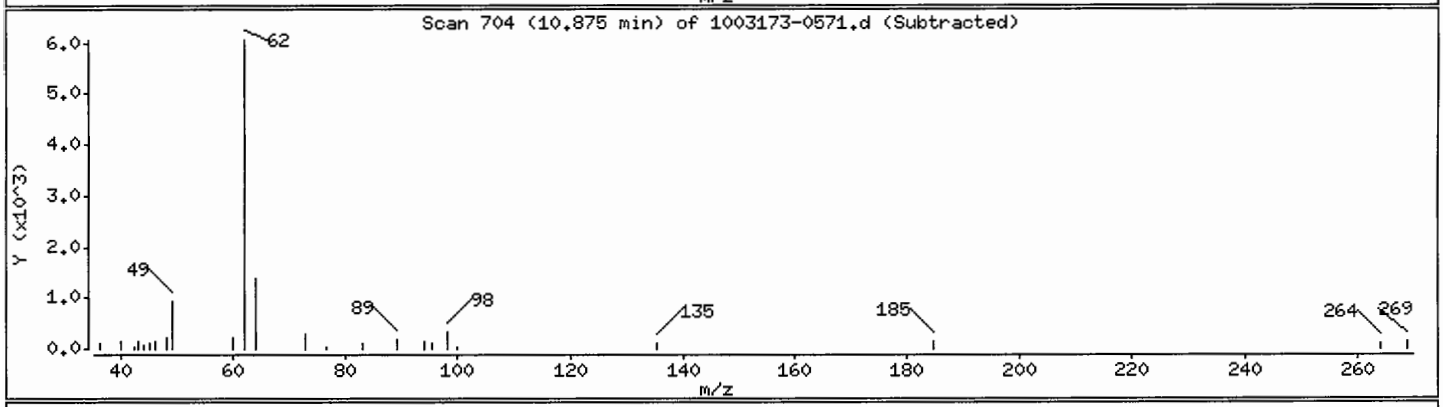
Sample Info: 1003173-05:JAO

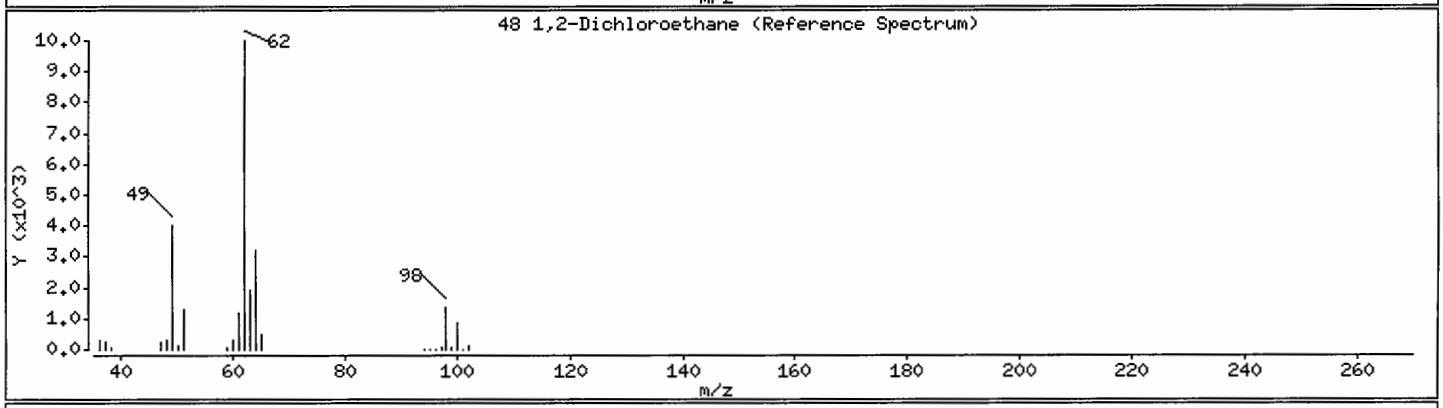
Purge Volume: 25.0 Operator: JAO

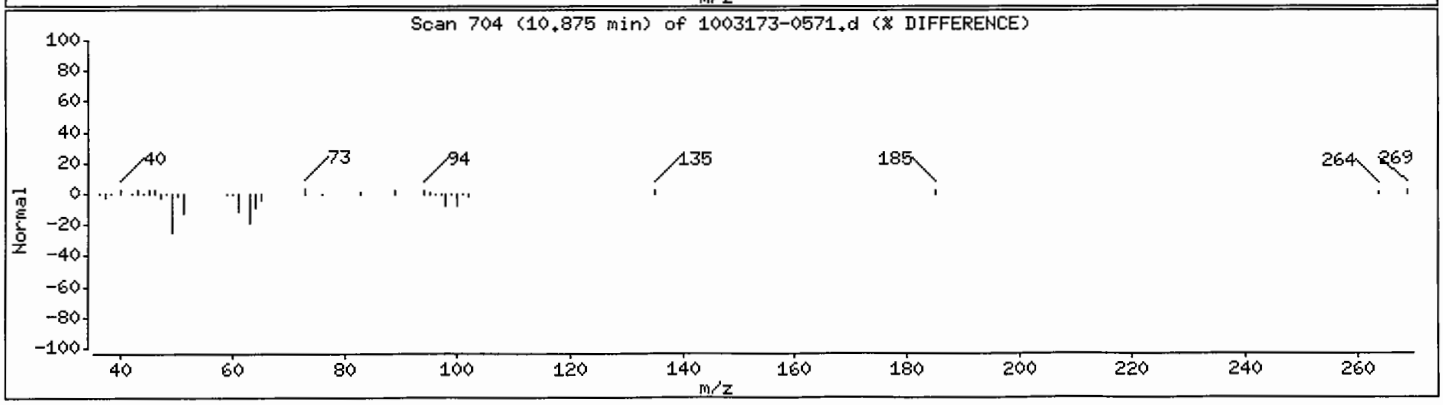
Column phase: SPB-624 Column diameter: 0.32

48 1,2-Dichloroethane Concentration: 0.40 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

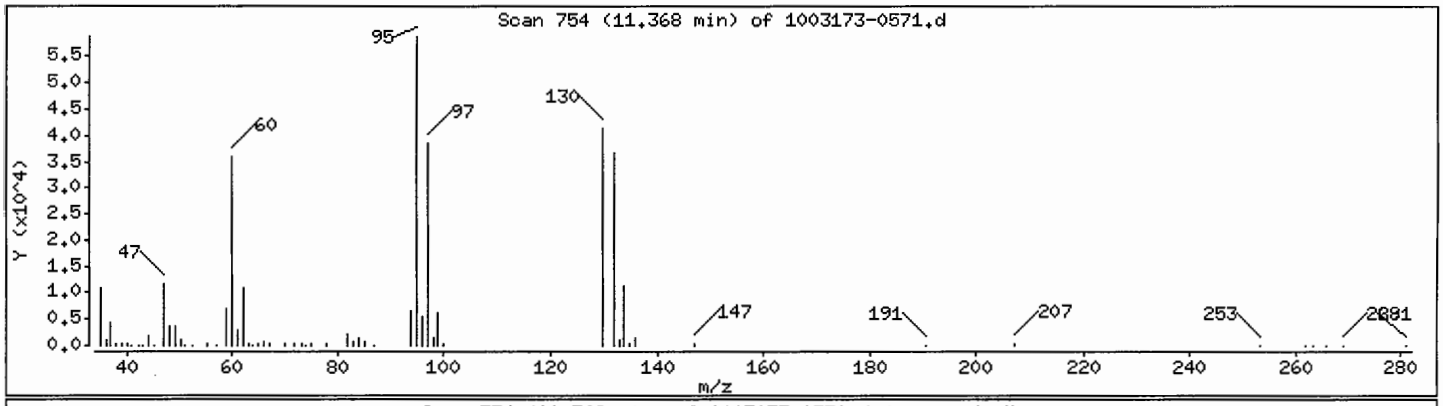
Client ID: MW-12 Instrument: 5972hp71.i

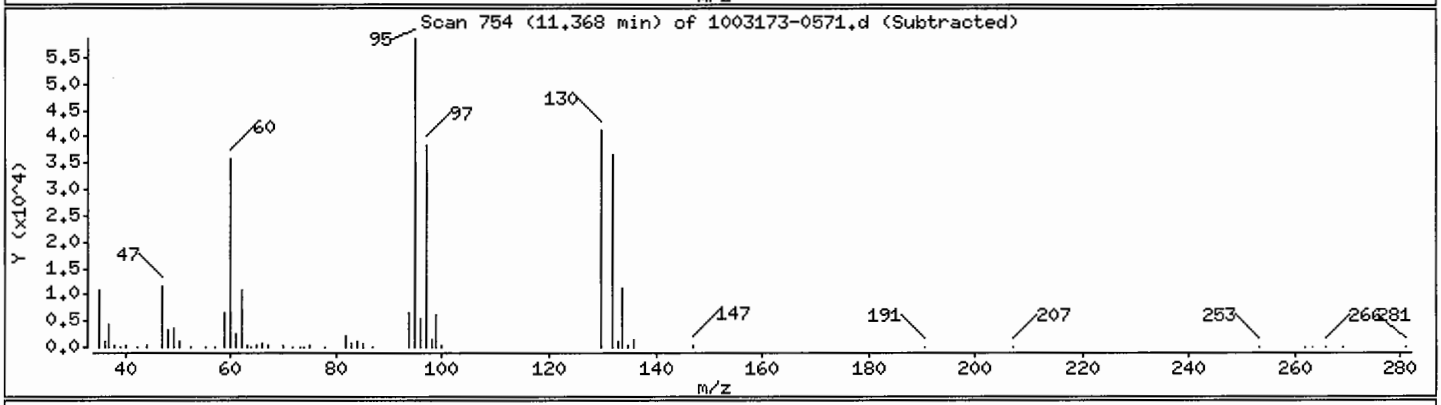
Sample Info: 1003173-05;JAO

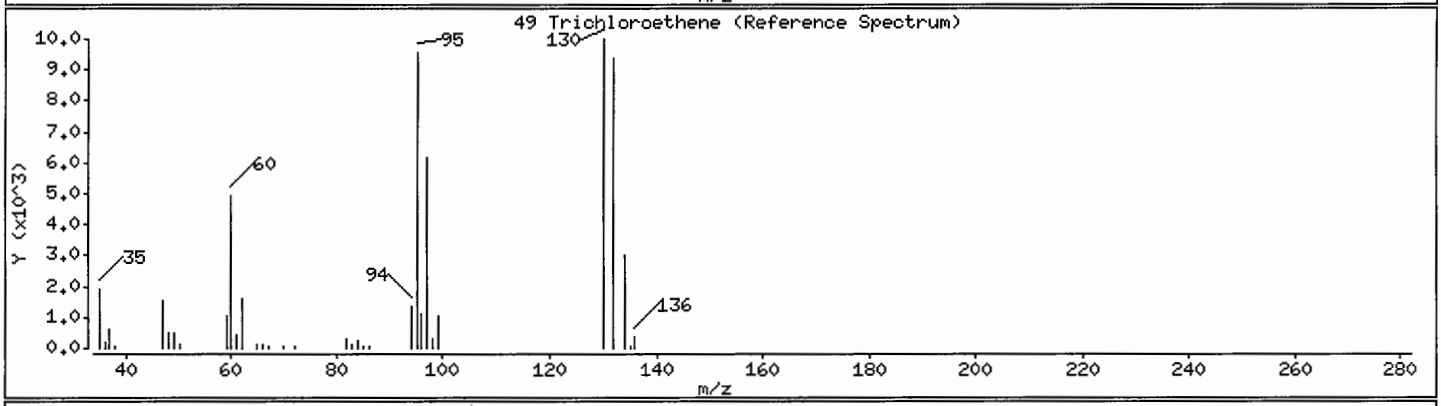
Purge Volume: 25.0 Operator: JAO

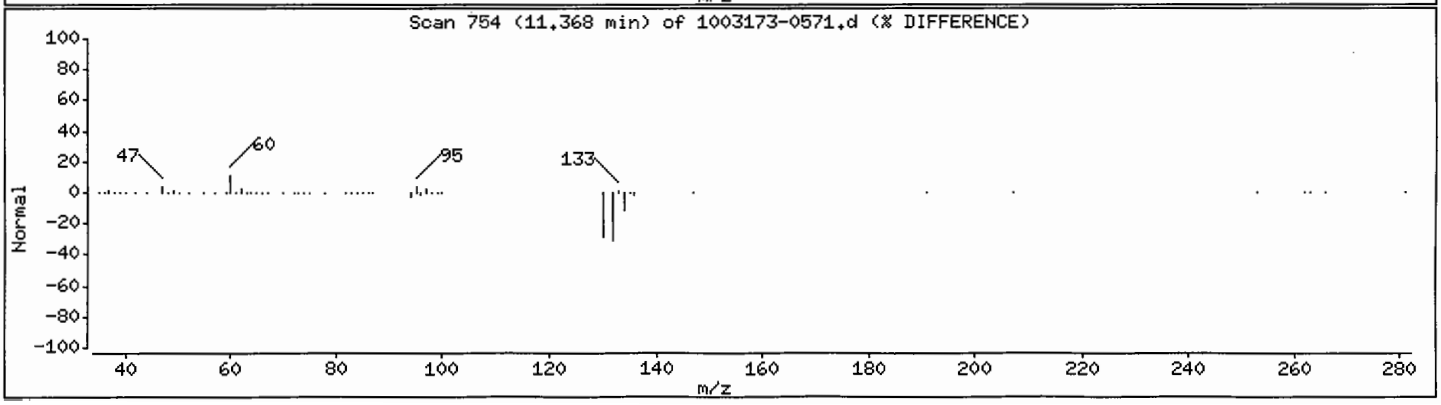
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 3.9 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

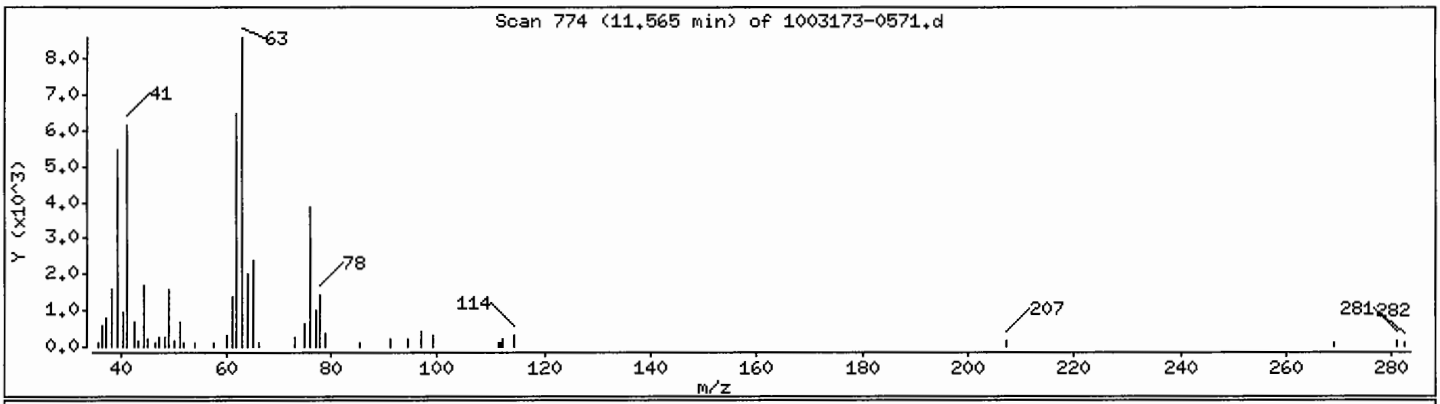
Client ID: MW-12 Instrument: 5972hp71.i

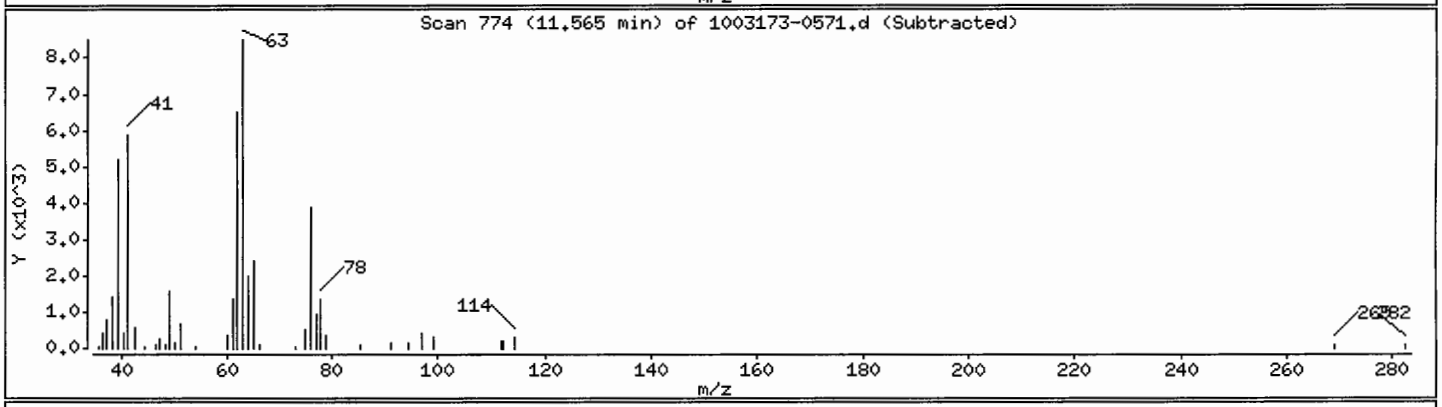
Sample Info: 1003173-05;JAO

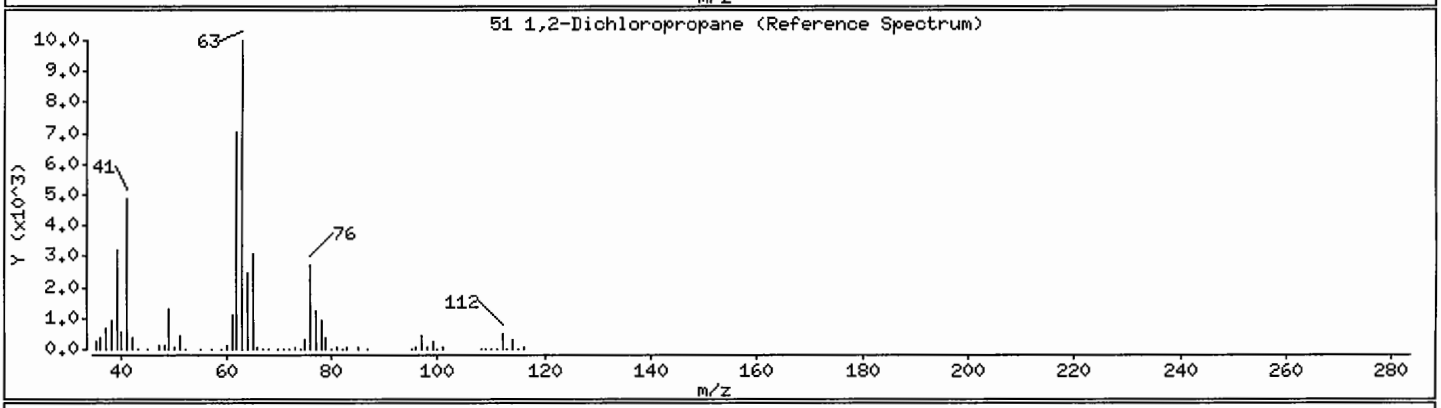
Purge Volume: 25.0 Operator: JAO

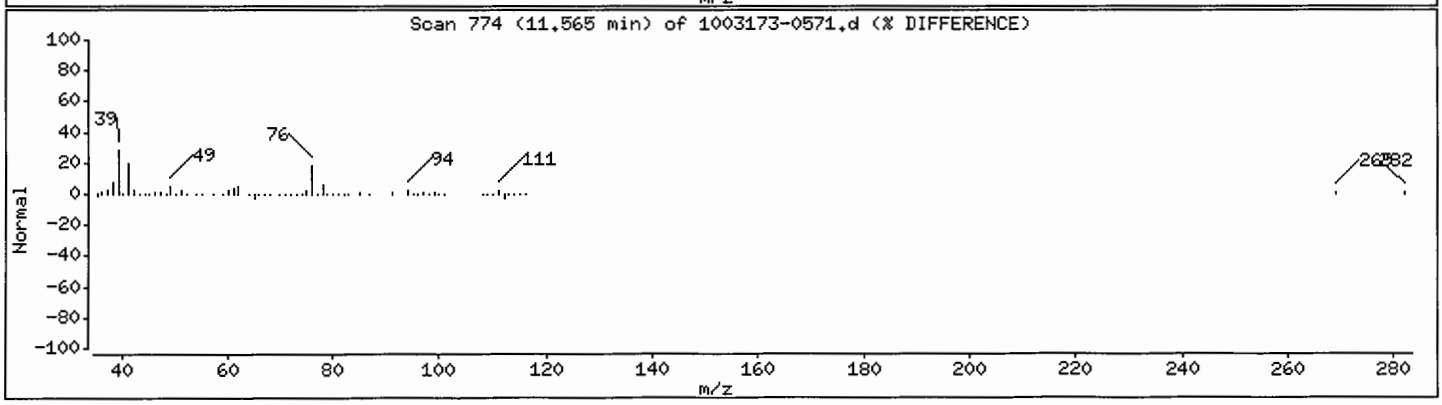
Column phase: SPB-624 Column diameter: 0.32

51 1,2-Dichloropropane Concentration: 0.77 ug/L









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Date : 31-MAR-2010 18:33

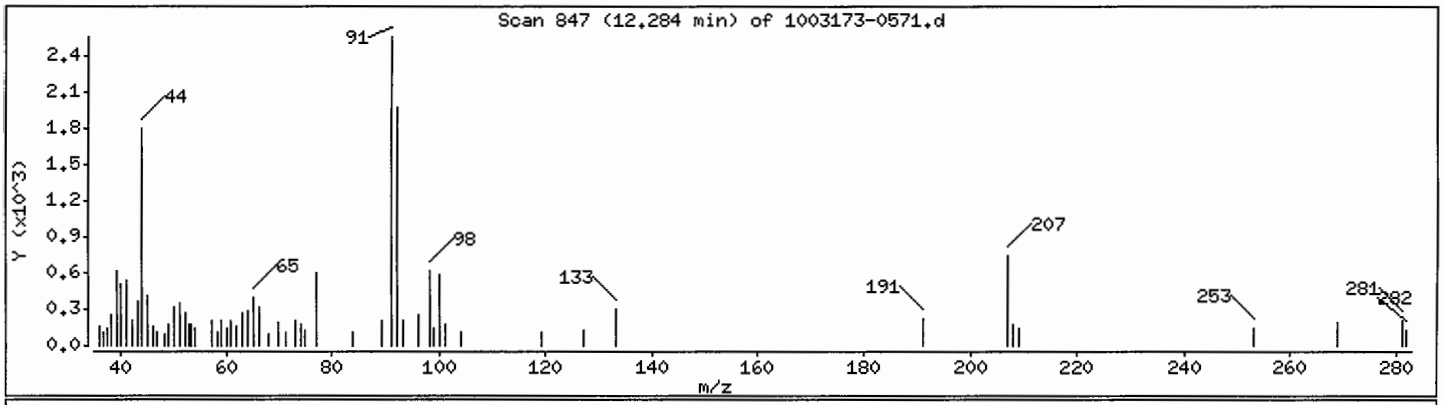
Client ID: MW-12 Instrument: 5972hp71.i

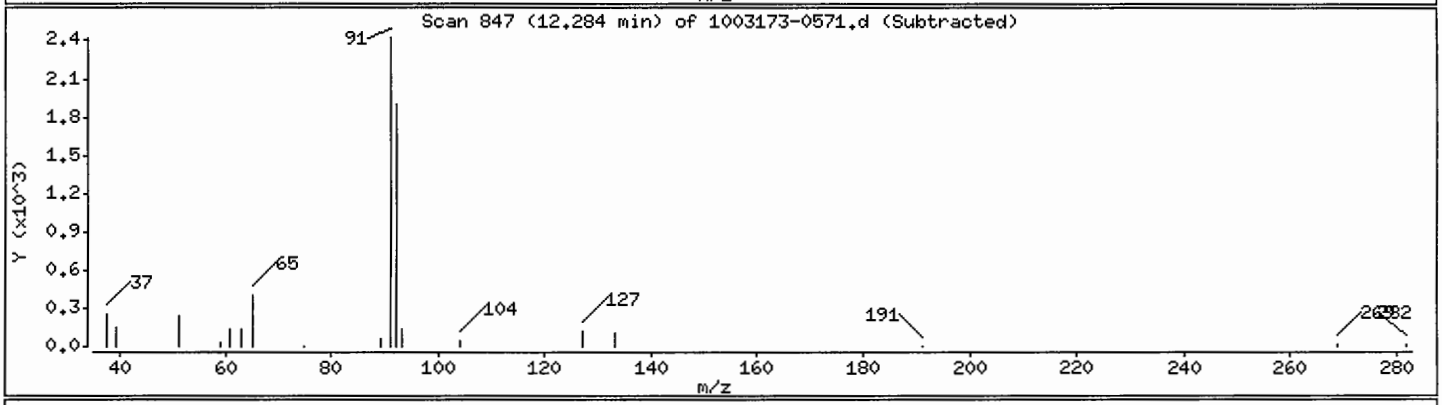
Sample Info: 1003173-05:JAO

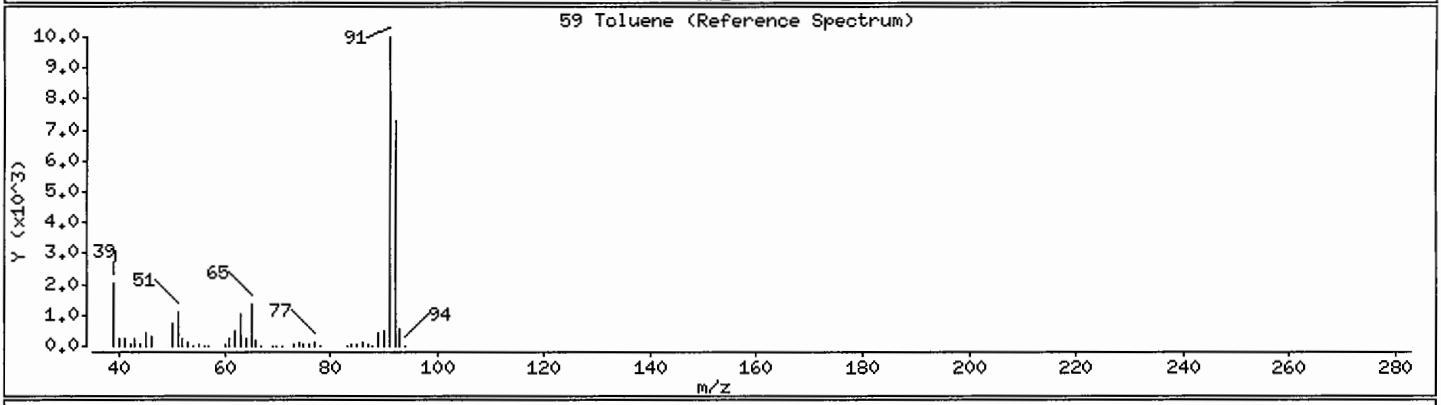
Purge Volume: 25.0 Operator: JAO

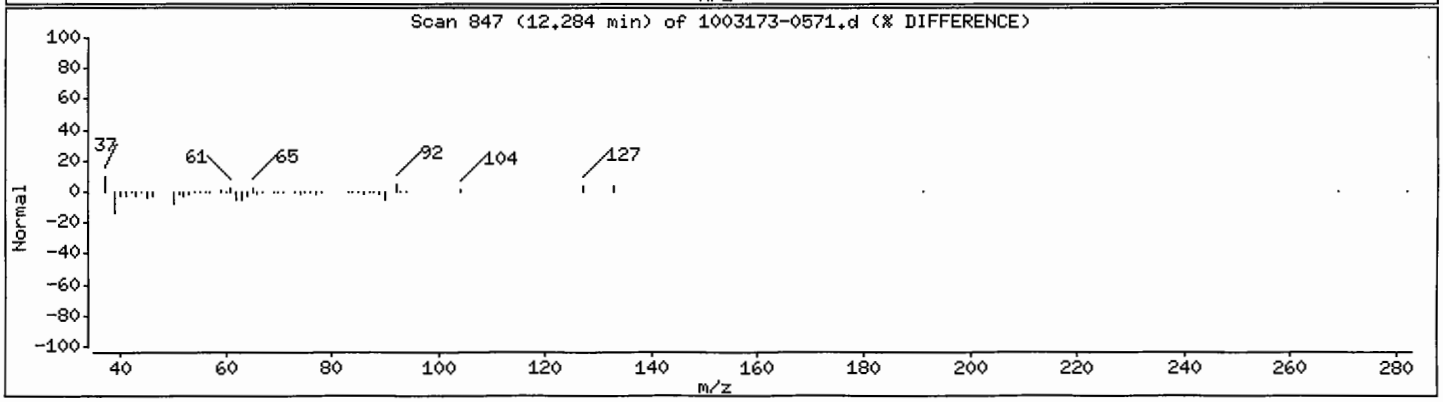
Column phase: SPB-624 Column diameter: 0.32

59 Toluene Concentration: 0.056 ug/L









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Date : 31-MAR-2010 18:33

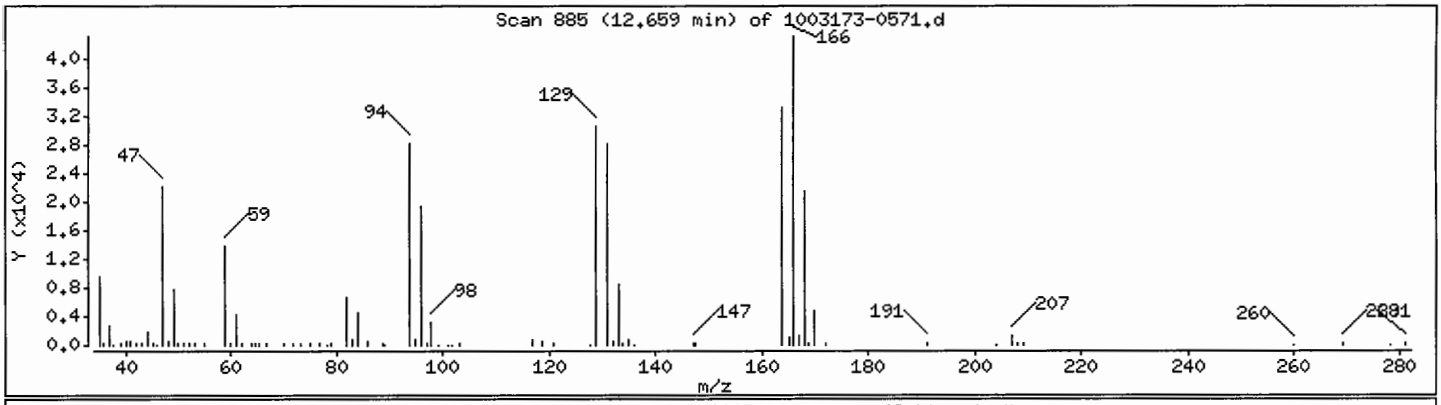
Client ID: MW-12 Instrument: 5972hp71.i

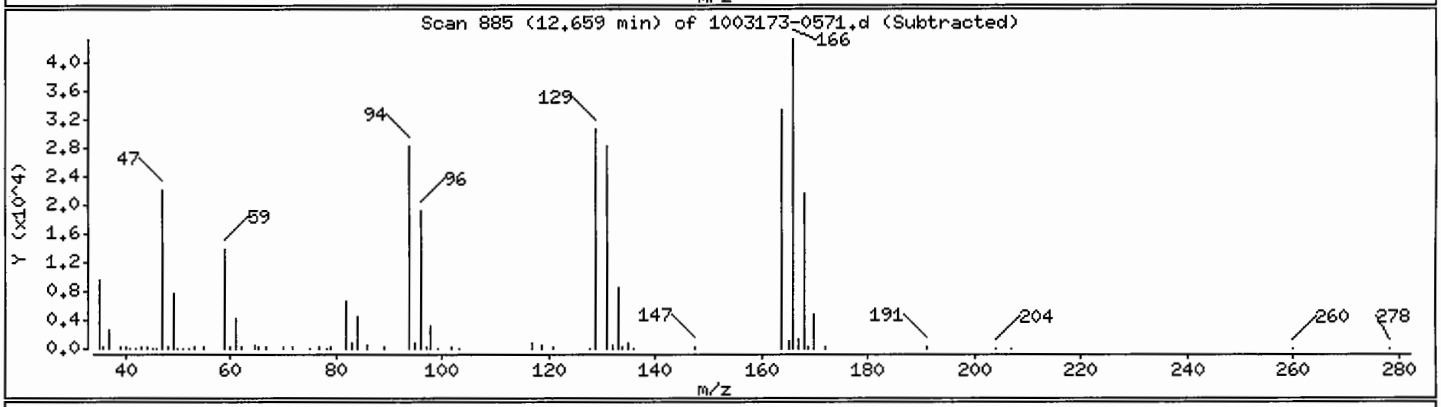
Sample Info: 1003173-05;JAO

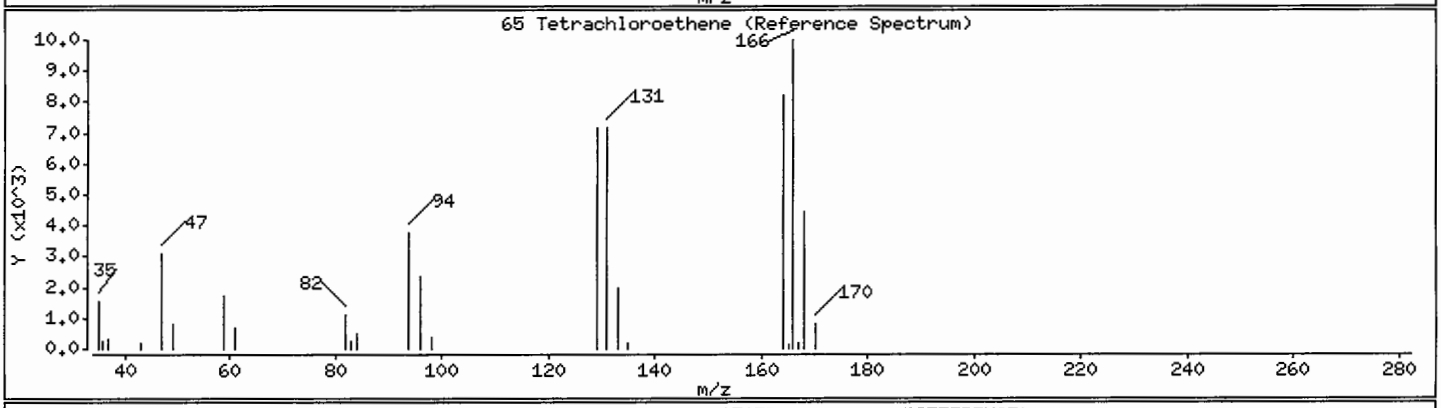
Purge Volume: 25.0 Operator: JAO

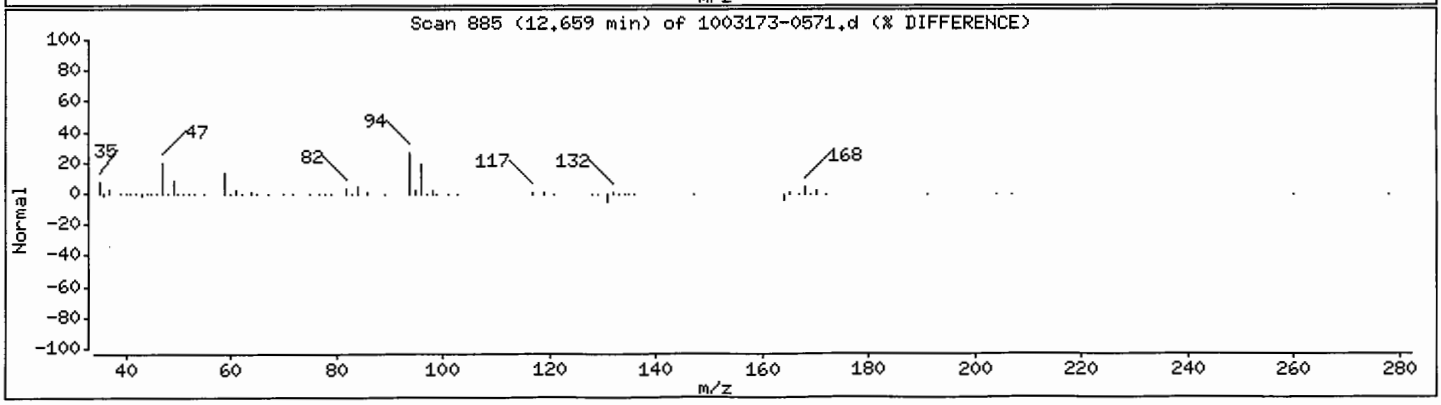
Column phase: SPB-624 Column diameter: 0.32

65 Tetrachloroethene Concentration: 2.8 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

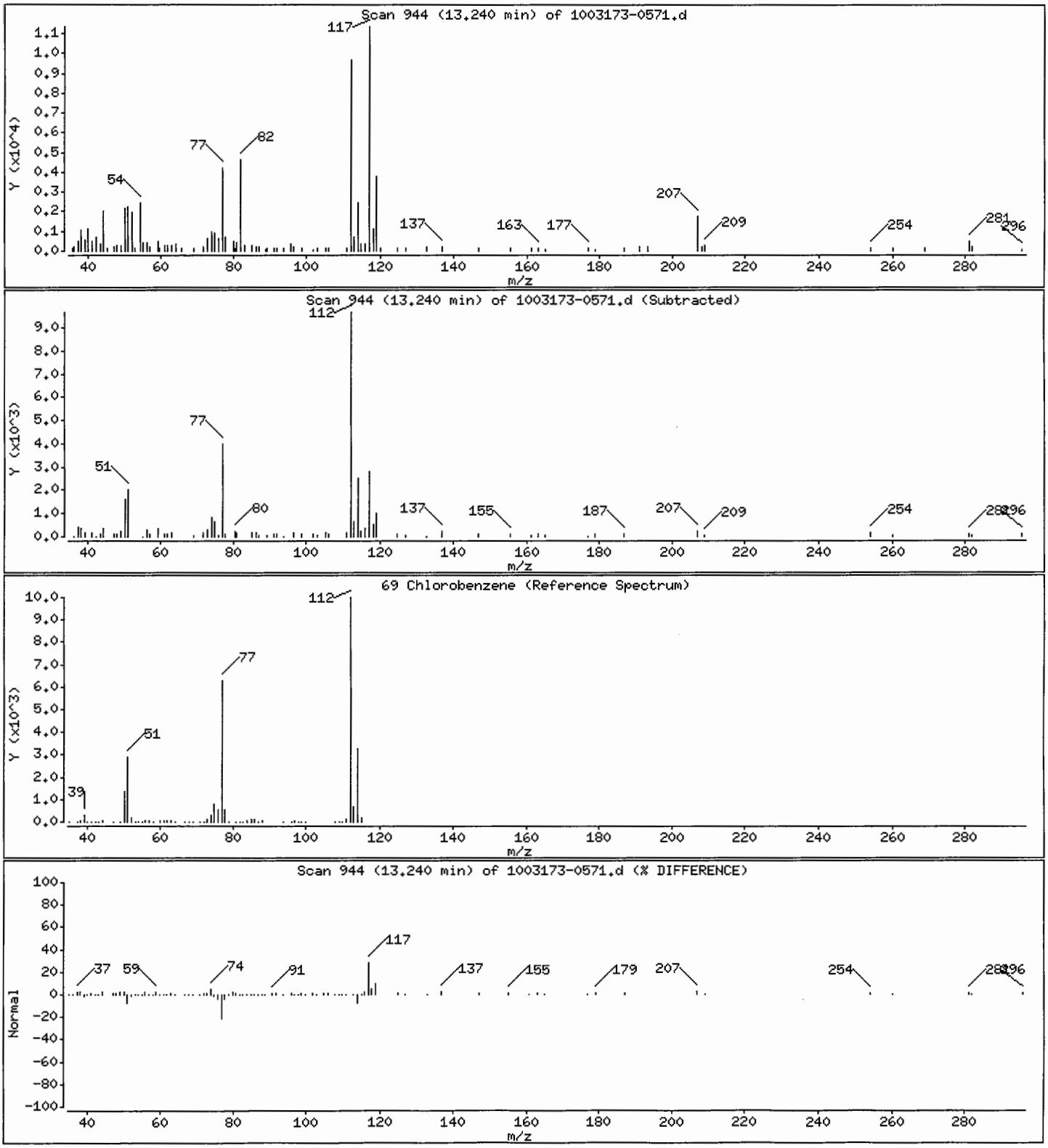
Client ID: MW-12 Instrument: 5972hp71.i

Sample Info: 1003173-05:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

69 Chlorobenzene Concentration: 0.23 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

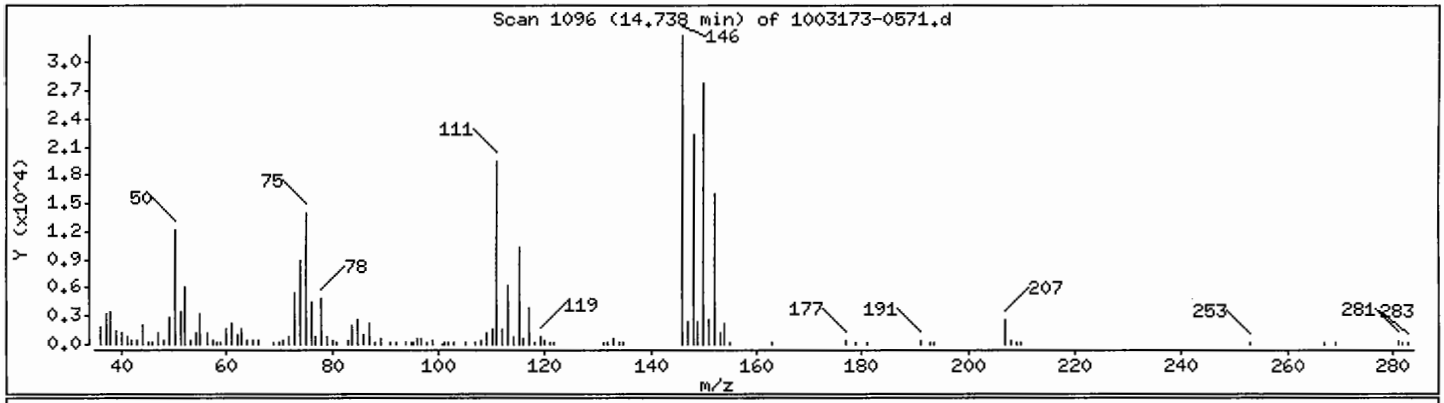
Client ID: MW-12 Instrument: 5972hp71.i

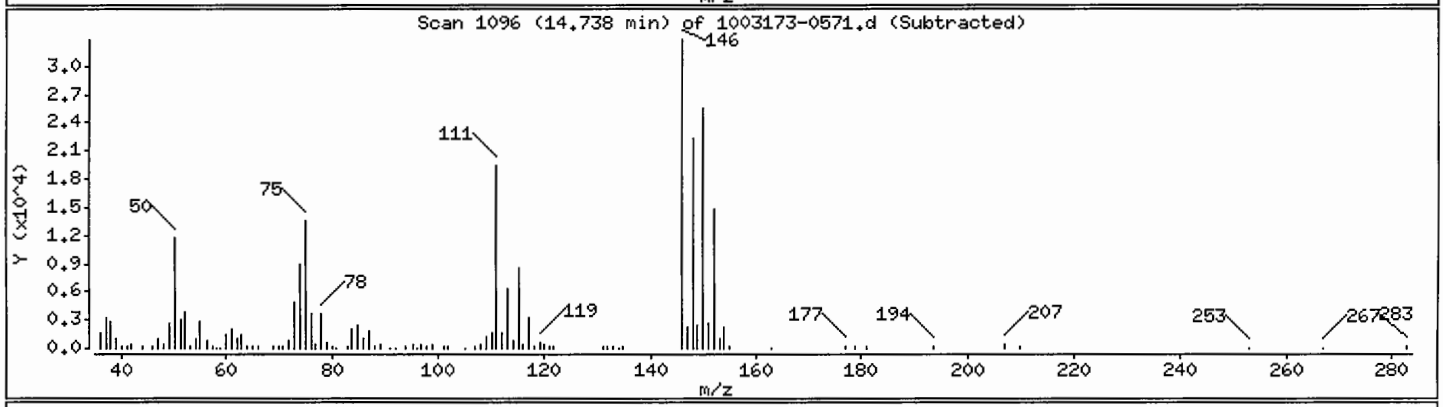
Sample Info: 1003173-05:JAO

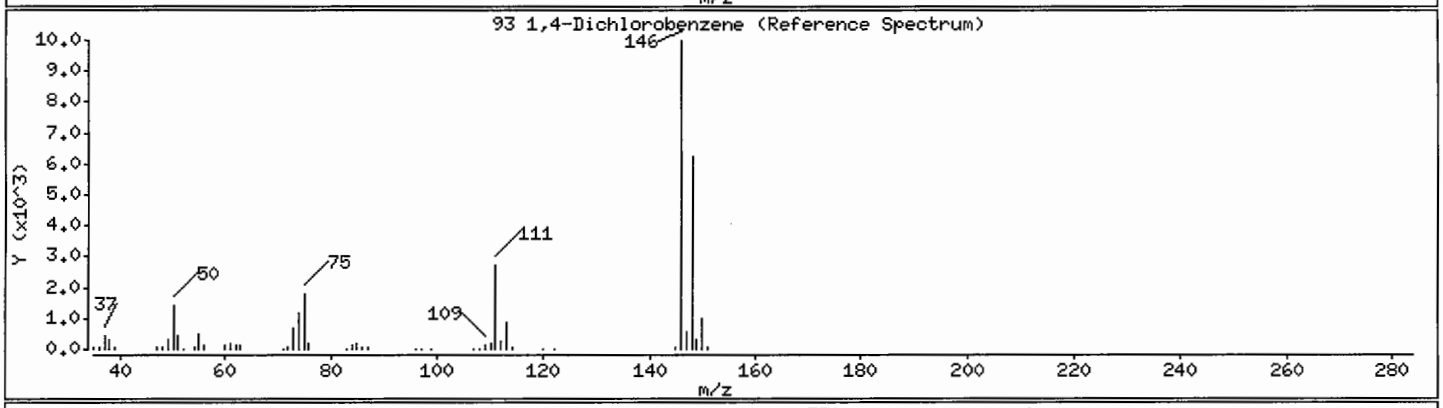
Purge Volume: 25.0 Operator: JAO

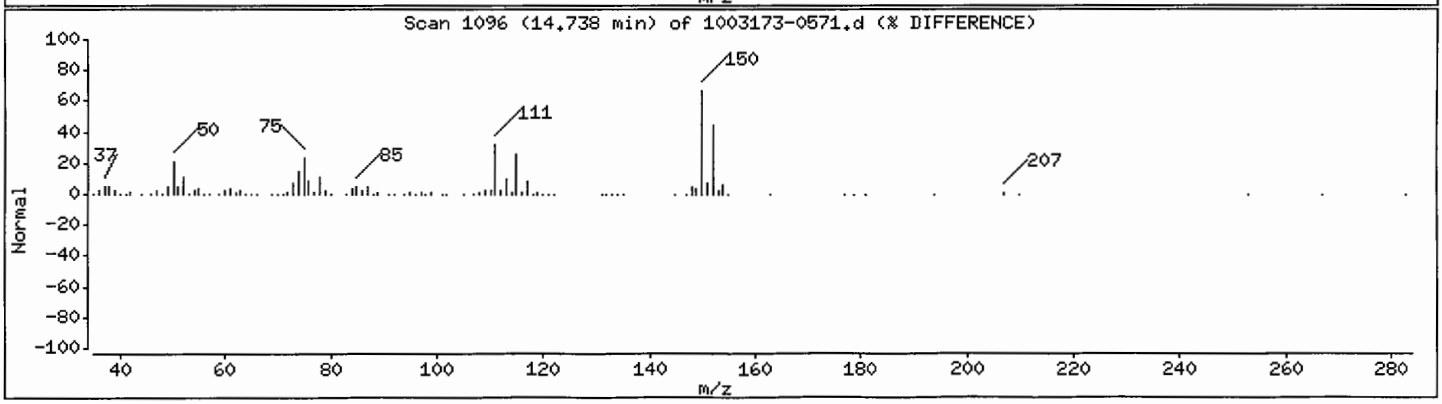
Column phase: SPB-624 Column diameter: 0.32

93 1,4-Dichlorobenzene Concentration: 1.5 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

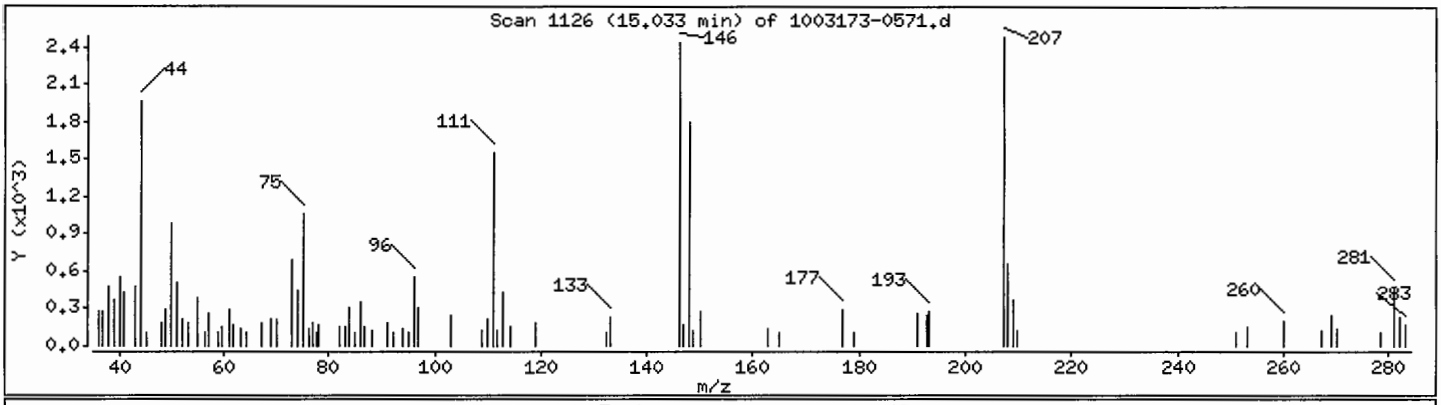
Client ID: MW-12 Instrument: 5972hp71.i

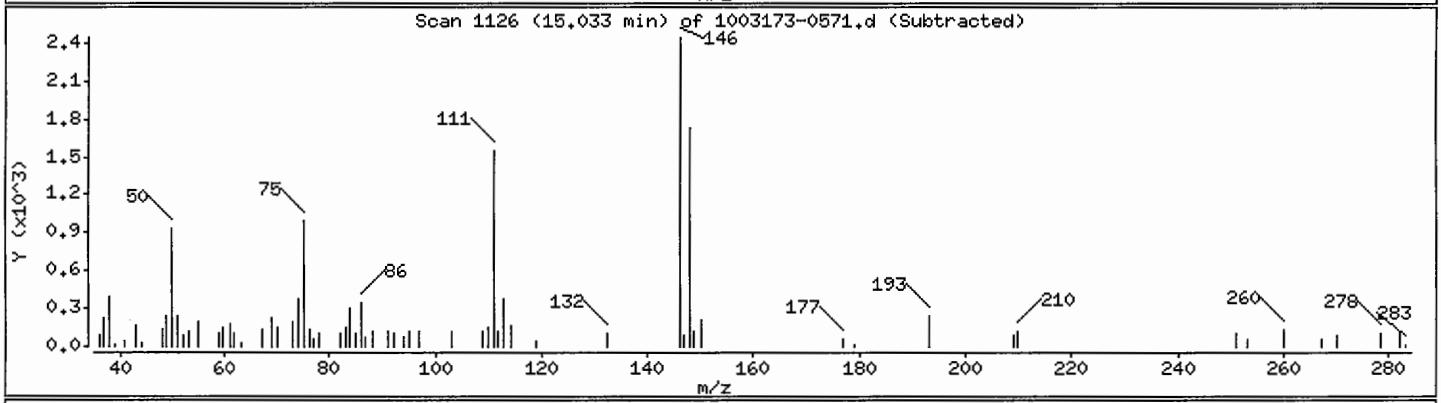
Sample Info: 1003173-05;JAO

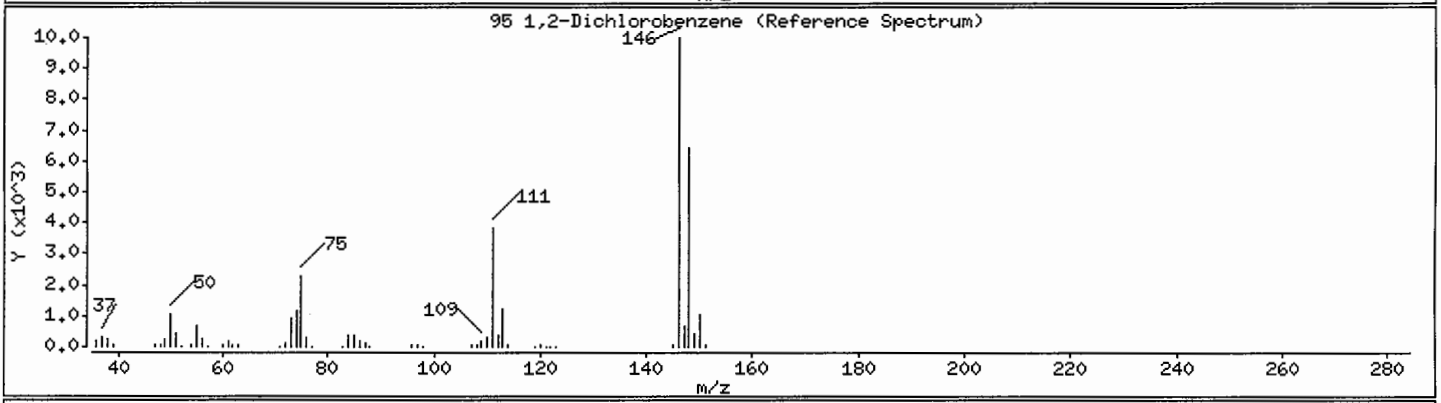
Purge Volume: 25.0 Operator: JAO

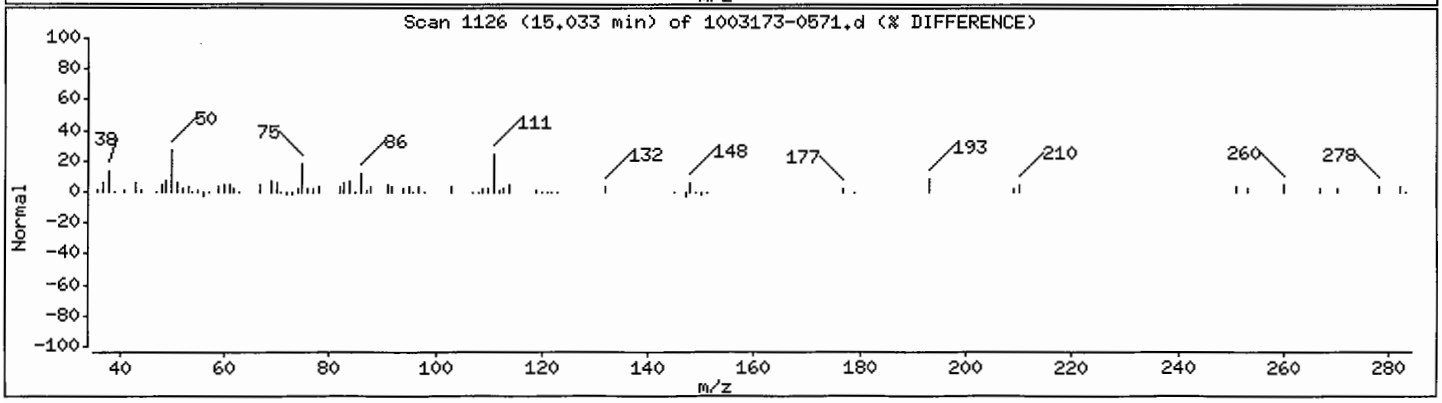
Column phase: SPB-624 Column diameter: 0.32

95 1,2-Dichlorobenzene Concentration: 0.15 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Lab Smp Id: 1003173-05 Client Smp ID: MW-12
Inj Date : 31-MAR-2010 18:33
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-05:JAO
Misc Info : MW-12
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.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

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	11.073	919001	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Difluorochloromethane			CAS #: 75-45-6				
4.186	481254	65.4588207	2.6	83	NIS08.1	1830	1
Fluorodichloromethane			CAS #: 75-43-4				
6.491	206652	28.1082256	1.1	94	NIS08.1	4467	1
Ethyl ether			CAS #: 60-29-7				
7.142	699719	95.1737430	3.8	90	NIS08.1	839	1

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d
Report Date: 07-Apr-2010 16:52

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Unknown				CAS #:			
8.747	231959	31.5503943	1.3	0		0	1

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

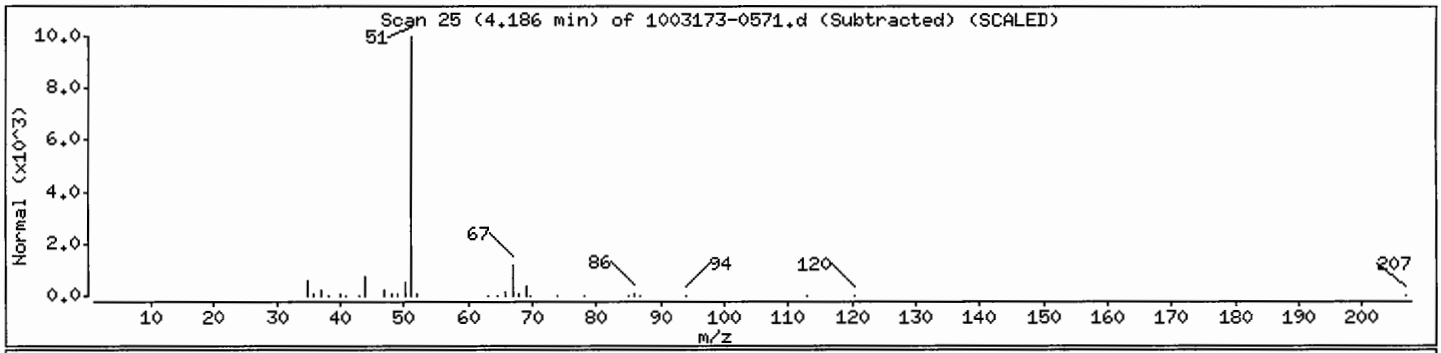
Client ID: MW-12 Instrument: 5972hp71.i

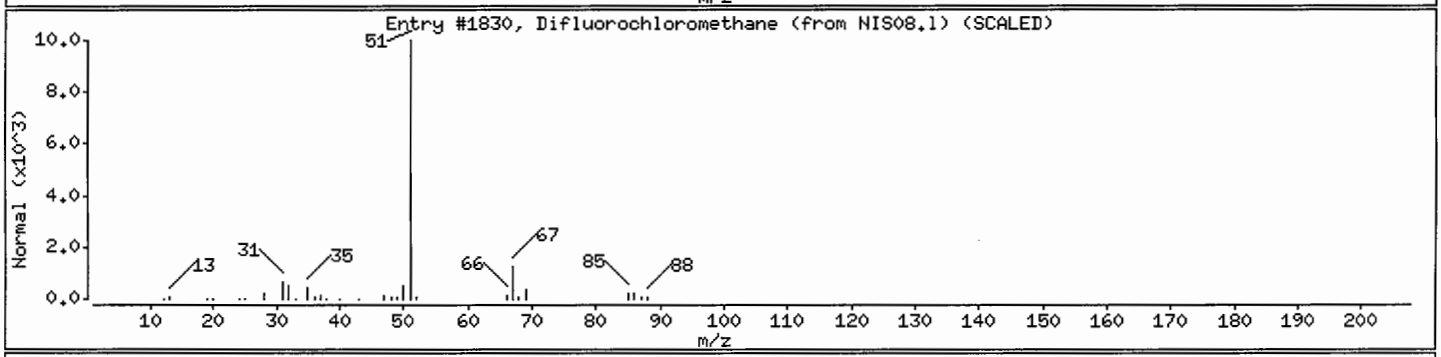
Sample Info: 1003173-05;JAO

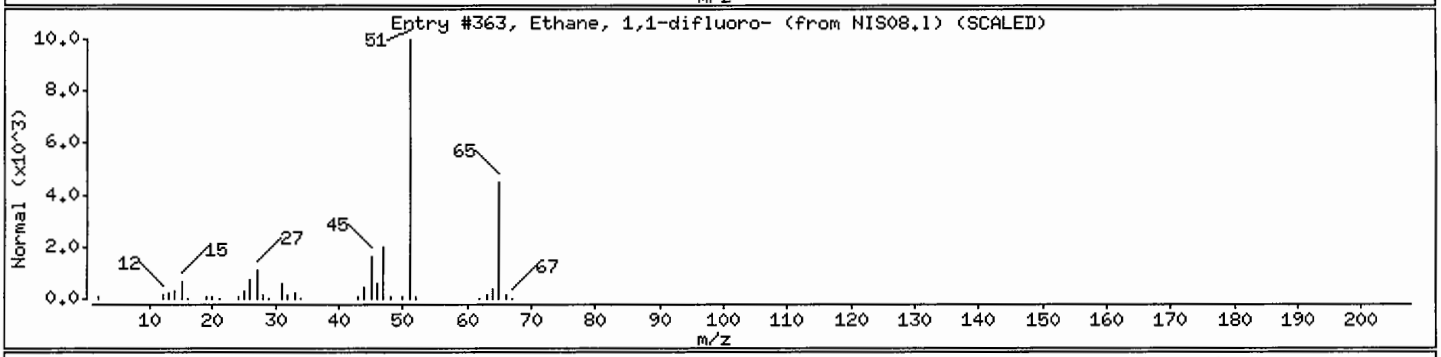
Purge Volume: 25.0 Operator: JAO

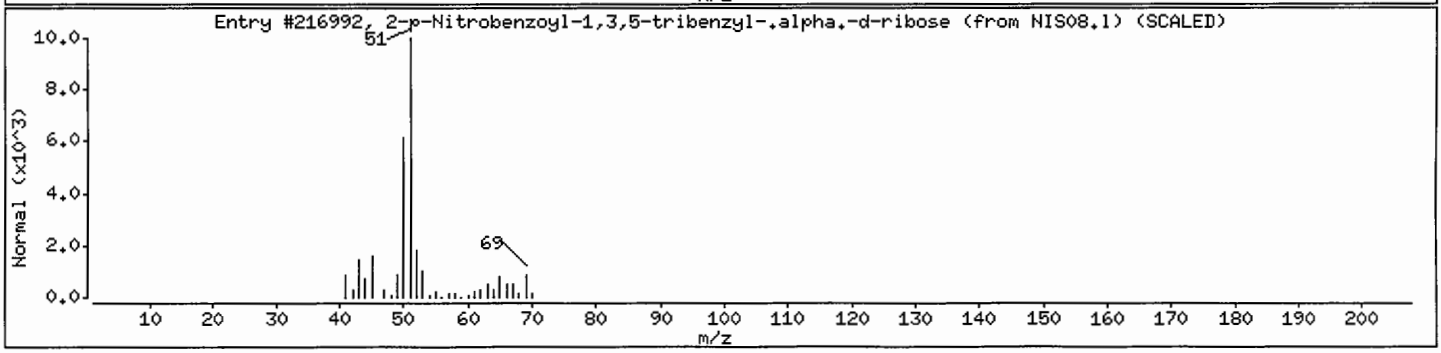
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Difluorochloromethane	75-45-6	NIS08.l	1830	83	CHClF2	86
Ethane, 1,1-difluoro-	75-37-6	NIS08.l	363	9	C2H4F2	66
2-p-Nitrobenzoyl-1,3,5-tribenzyl-.alpha.	1000129-85-6	NIS08.l	216992	4	C33H31NO8	569









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

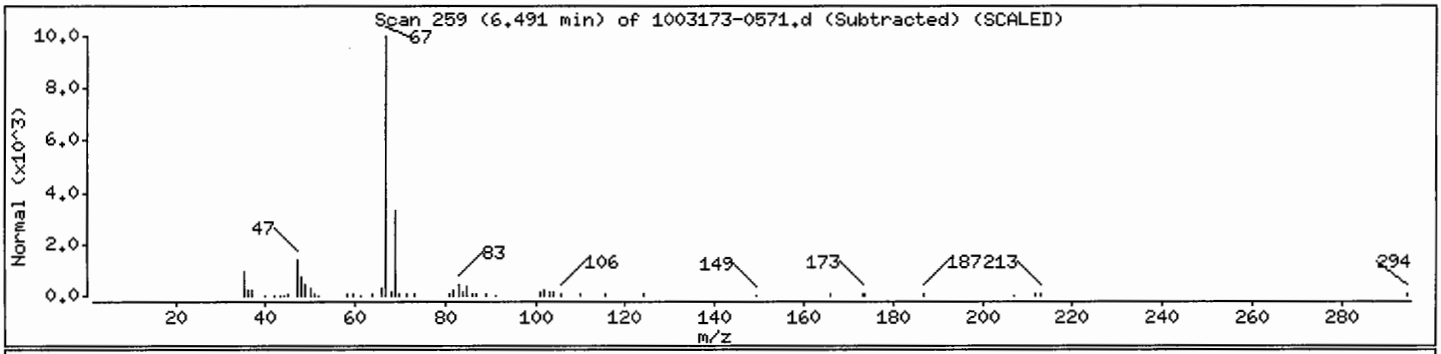
Client ID: MW-12 Instrument: 5972hp71.i

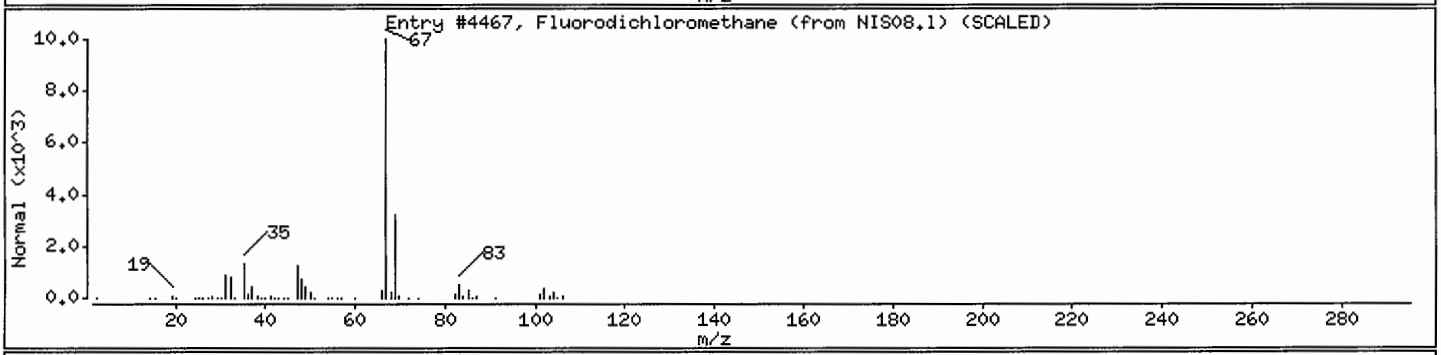
Sample Info: 1003173-05;JAO

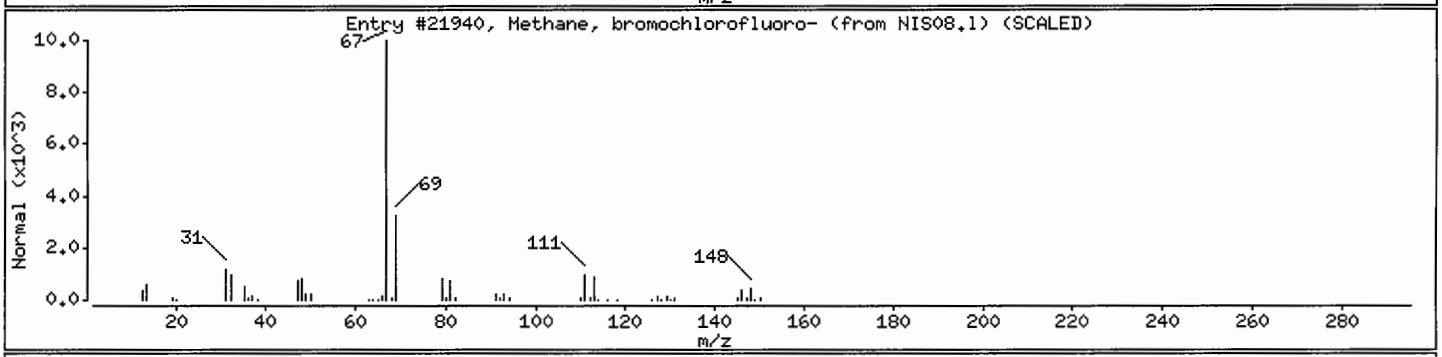
Purge Volume: 25.0 Operator: JAO

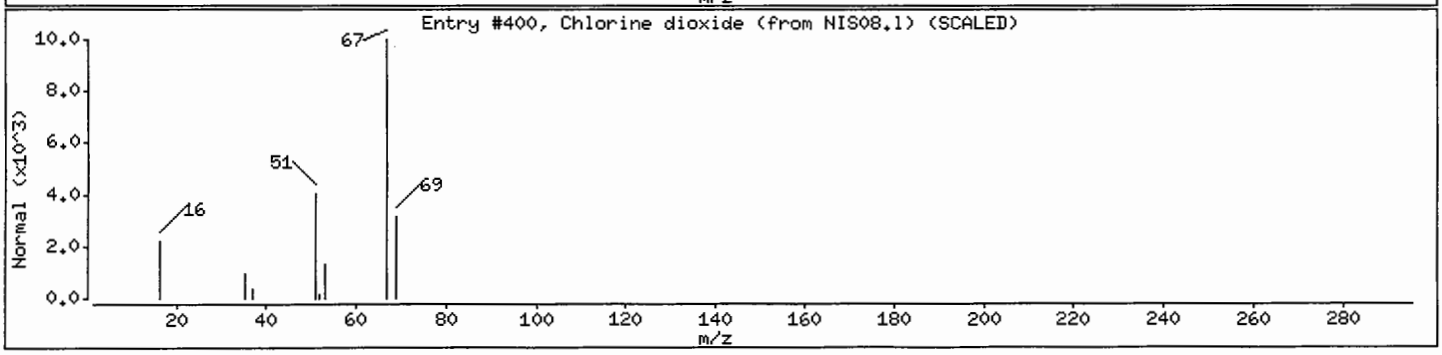
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Fluorodichloromethane	75-43-4	NIS08.l	4467	94	CHCl2F	102
Methane, bromochlorofluoro-	593-98-6	NIS08.l	21940	43	CHBrClF	146
Chlorine dioxide	10049-04-4	NIS08.l	400	42	ClO2	67









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

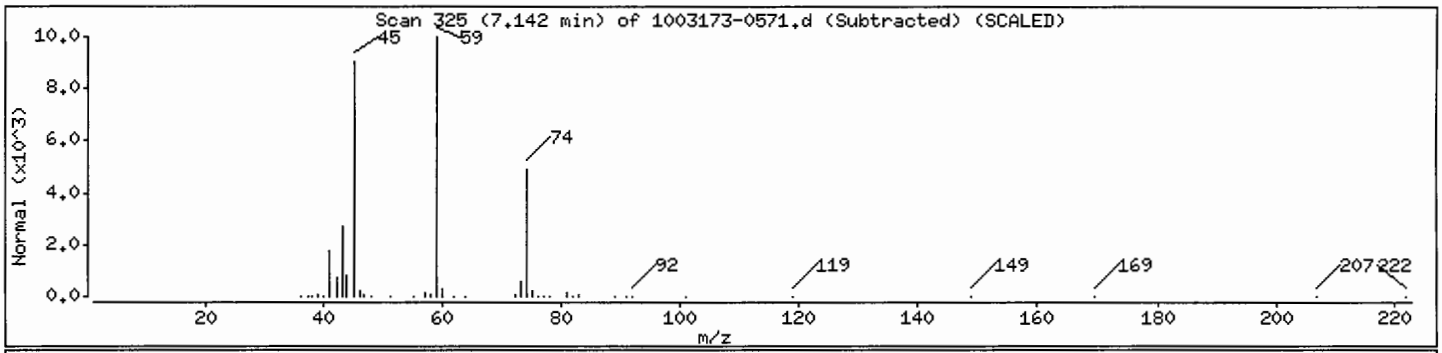
Client ID: MW-12 Instrument: 5972hp71.i

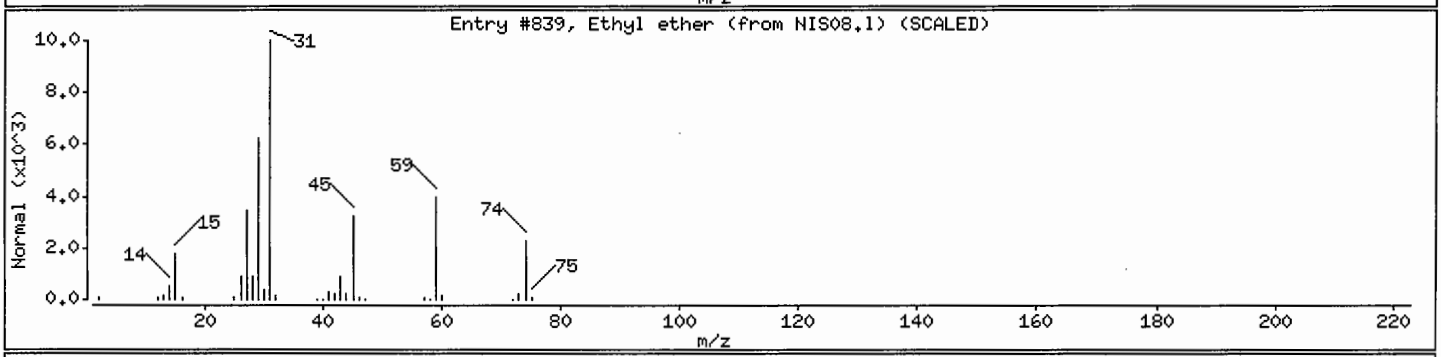
Sample Info: 1003173-05;JAO

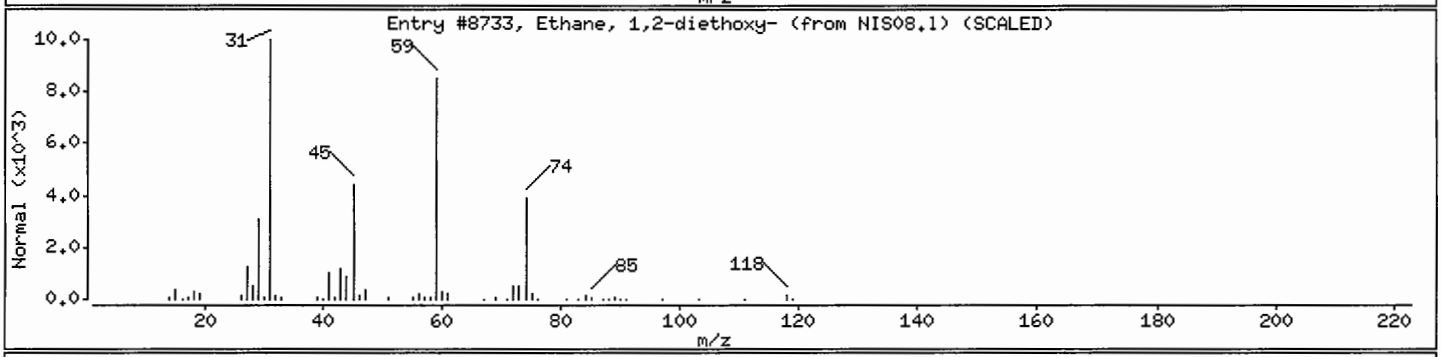
Purge Volume: 25.0 Operator: JAO

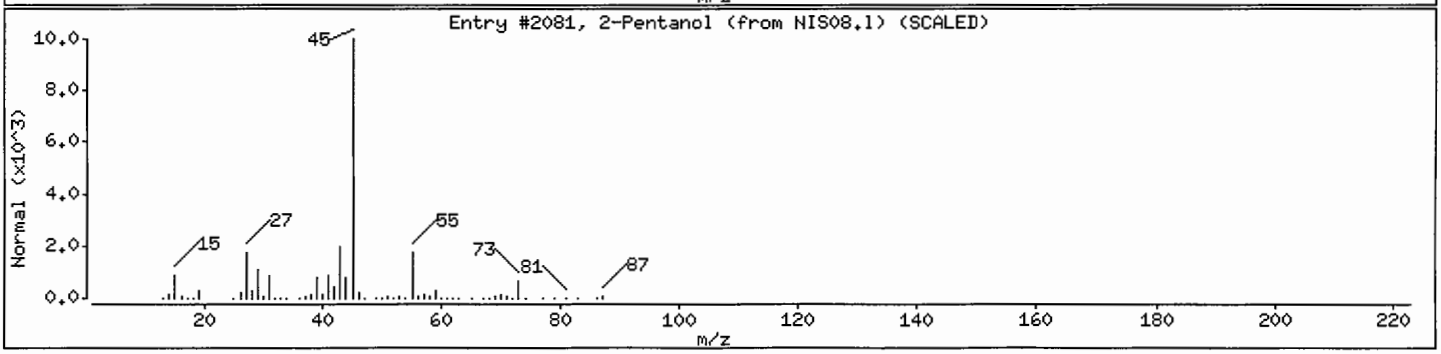
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl ether	60-29-7	NIS08.l	839	90	C4H10O	74
Ethane, 1,2-diethoxy-	629-14-1	NIS08.l	8733	38	C6H14O2	118
2-Pentanol	6032-29-7	NIS08.l	2081	17	C5H12O	88









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0571.d

Date : 31-MAR-2010 18:33

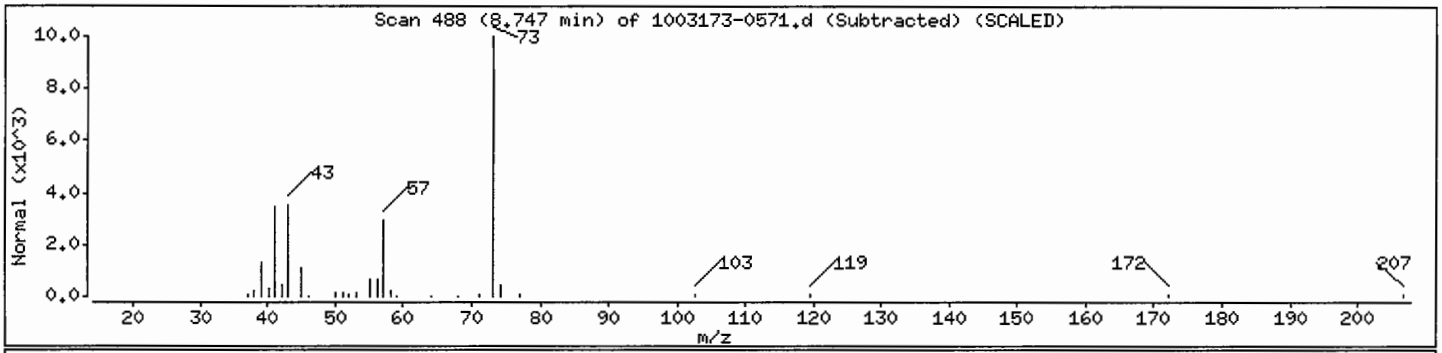
Client ID: MW-12 Instrument: 5972hp71.i

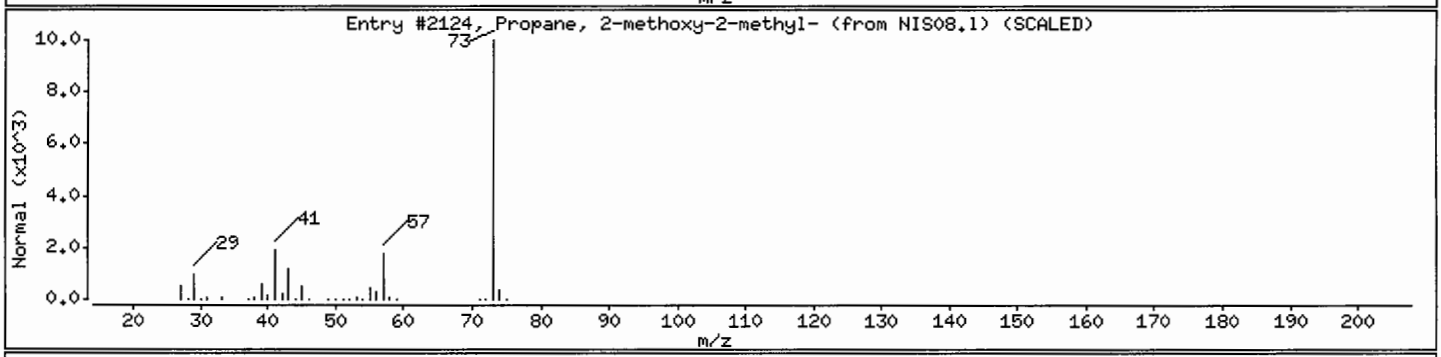
Sample Info: 1003173-05:JAO

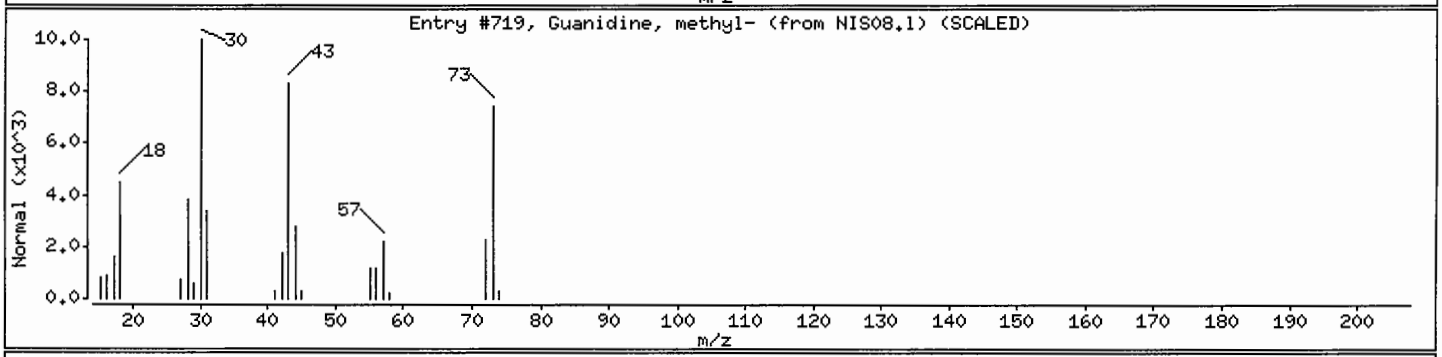
Purge Volume: 25.0 Operator: JAO

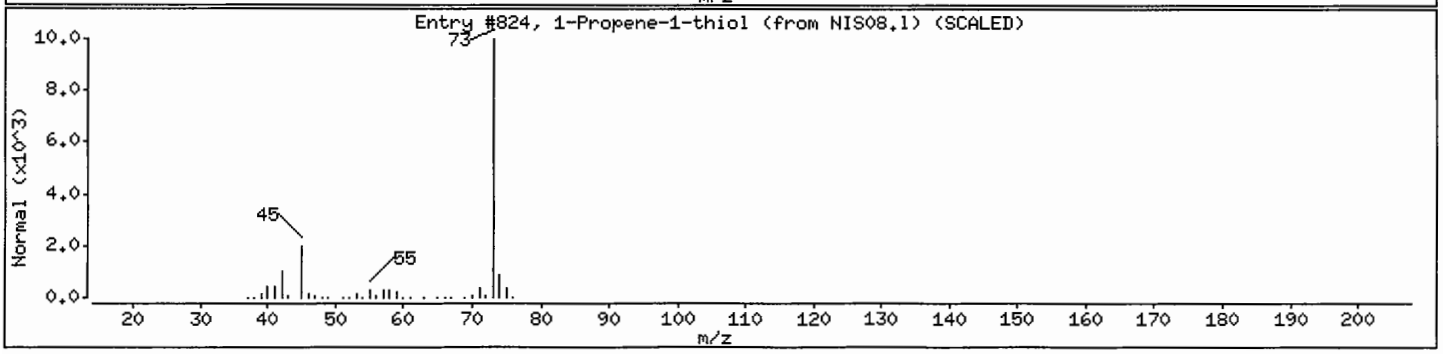
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2-methoxy-2-methyl-	1634-04-4	NIS08.l	2124	72	C5H12O	88
Guanidine, methyl-	471-29-4	NIS08.l	719	7	C2H7N3	73
1-Propene-1-thiol	925-89-3	NIS08.l	824	5	C3H6S	74









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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-05D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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	0.15	DJ
74-87-3	Chloromethane	0.84	U
75-01-4	Vinyl Chloride	1.7	D
74-83-9	Bromomethane	0.84	U
75-00-3	Chloroethane	6.3	D
75-69-4	Trichlorofluoromethane	0.84	U
107-02-8	Acrolein	8.4	U
75-35-4	1,1-Dichloroethene	0.26	DJ
74-88-4	Iodomethane	0.84	U
75-15-0	Carbon disulfide	0.84	U
67-64-1	Acetone	4.2	U
107-05-1	3-Chloropropene	0.84	U
75-05-8	Acetonitrile	0.84	U
75-09-2	Methylene Chloride	0.40	DBJ
156-60-5	trans-1,2-Dichloroethene	0.51	DJ
107-13-1	Acrylonitrile	8.4	U
75-34-3	1,1-Dichloroethane	19	D
108-05-4	Vinyl acetate	1.7	U
594-20-7	2,2-Dichloropropane	0.84	U
156-59-2	cis-1,2-Dichloroethene	41	D
78-93-3	2-butanone	4.2	U
107-12-0	Propionitrile	42	U
74-97-5	Bromochloromethane	0.84	U
126-98-7	Methacrylonitrile	8.4	U
67-66-3	Chloroform	0.26	DJ
71-55-6	1,1,1-Trichloroethane	0.84	U
56-23-5	Carbon Tetrachloride	0.84	U
563-58-6	1,1-dichloropropene	0.84	U
71-43-2	Benzene	0.24	DJ
107-06-2	1,2-Dichloroethane	0.33	DJ
78-83-1	Isobutyl alcohol	42	U
79-01-6	Trichloroethene	3.7	D
78-87-5	1,2-Dichloropropane	0.81	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-05DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-05D71

Level: (low/med) LOW Date Received: 03/19/10

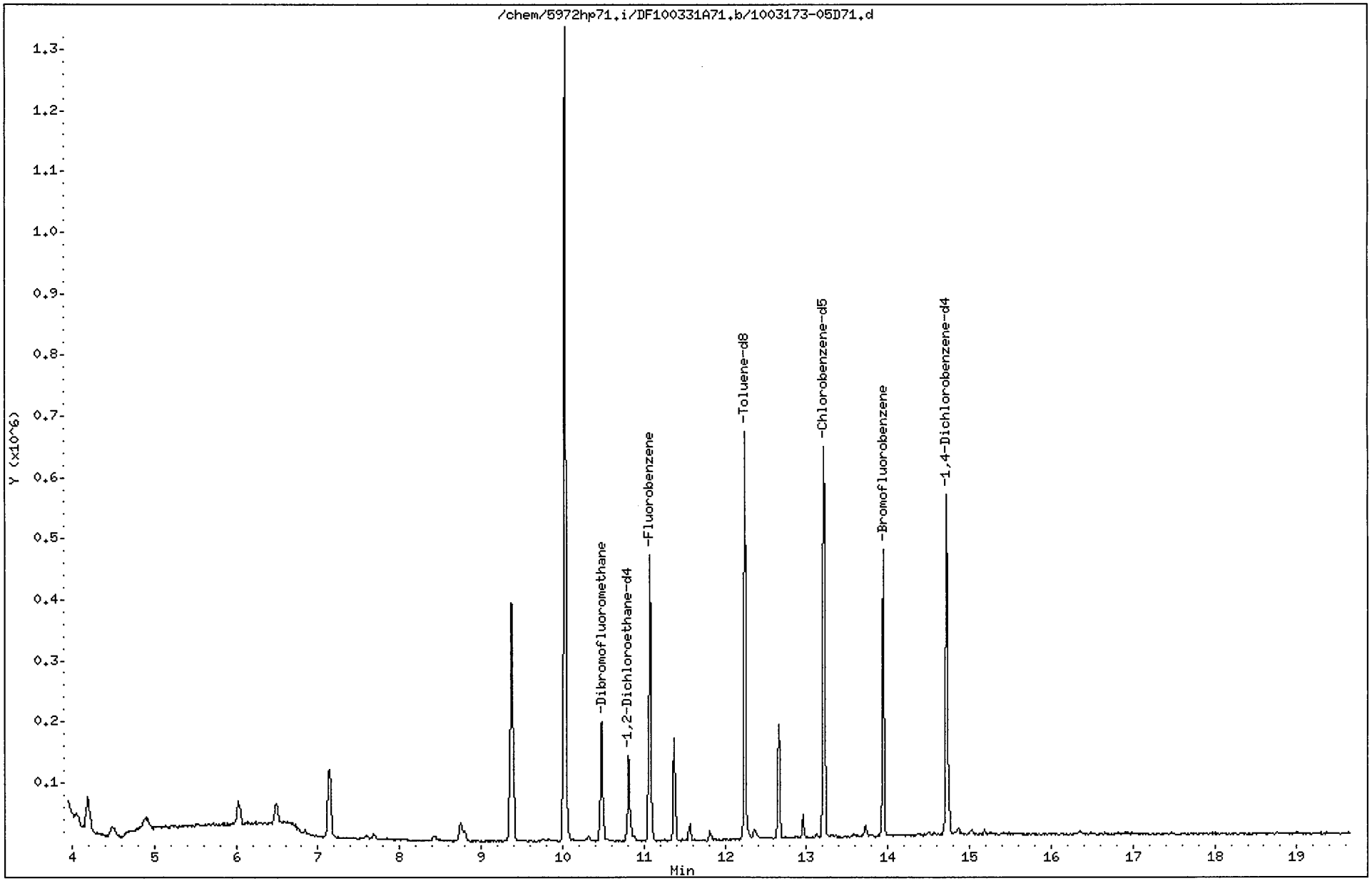
% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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	0.84	U
80-62-6	Methylmethacrylate	8.4	U
75-27-4	Bromodichloromethane	0.84	U
10061-01-5	cis-1,3-Dichloropropene	0.84	U
108-10-1	4-Methyl-2-pentanone	4.2	U
108-88-3	Toluene	0.14	DBJ
10061-02-6	trans-1,3-Dichloropropene	0.84	U
79-00-5	1,1,2-Trichloroethane	0.84	U
97-63-2	Ethylmethacrylate	8.4	U
127-18-4	Tetrachloroethene	2.8	D
142-28-9	1,3-Dichloropropane	0.84	U
591-78-6	2-hexanone	4.2	U
124-48-1	Dibromochloromethane	0.84	U
108-90-7	Chlorobenzene	0.22	DJ
630-20-6	1,1,1,2-Tetrachloroethane	0.84	U
100-41-4	Ethylbenzene	0.84	U
108-38-3	m,p-Xylene	1.7	U
95-47-6	o-Xylene	0.84	U
100-42-5	Styrene	0.84	U
75-25-2	Bromoform	0.84	U
96-18-4	1,2,3-Trichloropropane	0.84	U
79-34-5	1,1,2,2-Tetrachloroethane	0.84	U
110-57-6	trans-1,4-dichloro-2-butene	3.3	U
541-73-1	1,3-Dichlorobenzene	0.84	U
106-46-7	1,4-Dichlorobenzene	1.4	D
95-50-1	1,2-Dichlorobenzene	0.14	DJ
120-82-1	1,2,4-Trichlorobenzene	0.84	U
87-68-3	Hexachlorobutadiene	0.84	U
91-20-3	Naphthalene	0.84	U
1330-20-7	Xylene (total)	0.84	U
126-99-8	Chloroprene	0.84	U

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d
Date : 31-MAR-2010 21:37
Client ID: MW-12DL
Instrument: 5972hp71.i
Sample Info: 1003173-05DL:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d
Report Date: 08-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d
Lab Smp Id: 1003173-05DL Client Smp ID: MW-12DL
Inj Date : 31-MAR-2010 21:37
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-05DL:JAO
Misc Info : MW-12DL
Comment   :
Method   : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 08-Apr-2010 16:52 pkhare Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 16
Dil Factor: 1.67000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.67000	Dilution Factor
Vo	25.00000	volume of water
DF	1.67000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	11.074	11.069	(1.000)	379461	125.000	
* 2 Chlorobenzene-d5	117	13.212	13.216	(1.000)	318574	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.719	14.714	(1.000)	119604	125.000	
$ 4 Dibromofluoromethane	113	10.483	10.478	(0.947)	122698	119.769	8.0
$ 5 1,2-Dichloroethane-d4	65	10.808	10.812	(0.976)	94928	124.322	8.3
$ 6 Toluene-d8	98	12.246	12.241	(0.927)	381989	110.784	7.4
$ 7 Bromofluorobenzene	95	13.941	13.936	(0.947)	164295	120.327	8.0
8 Dichlorodifluoromethane	85	4.148	4.143	(0.375)	3102	2.29009	0.15(aM)
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	4.916	4.921	(0.444)	20943	25.4410	1.7
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	6.029	6.034	(0.544)	47014	93.8395	6.3
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	7.596	7.601	(0.686)	2891	3.89063	0.26(a)
18 Acetone	43	Compound Not Detected.					

4-8-10

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d
Report Date: 08-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
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	8.423	8.428	(0.761)	3700	5.94951	0.40(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	8.798	8.793	(0.794)	6524	7.69536	0.51(a)
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	9.369	9.374	(0.846)	453844	289.735	19
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	10.029	10.024	(0.906)	531034	616.293	41
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	10.325	10.320	(0.932)	5654	3.94463	0.26(aM)
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	10.837	10.842	(0.979)	8556	3.56171	0.24(a)
48 1,2-Dichloroethane	62	10.886	10.881	(0.983)	4846	4.92471	0.33(a)
49 Trichloroethene	130	11.369	11.374	(1.027)	40018	54.7625	3.7
51 1,2-Dichloropropane	63	11.566	11.561	(1.044)	8033	12.1036	0.81(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	12.285	12.290	(0.930)	4333	2.06731	0.14(a)
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	12.660	12.665	(0.958)	33082	41.6487	2.8
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	13.231	13.236	(1.001)	8948	3.36051	0.22(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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

4-8-10

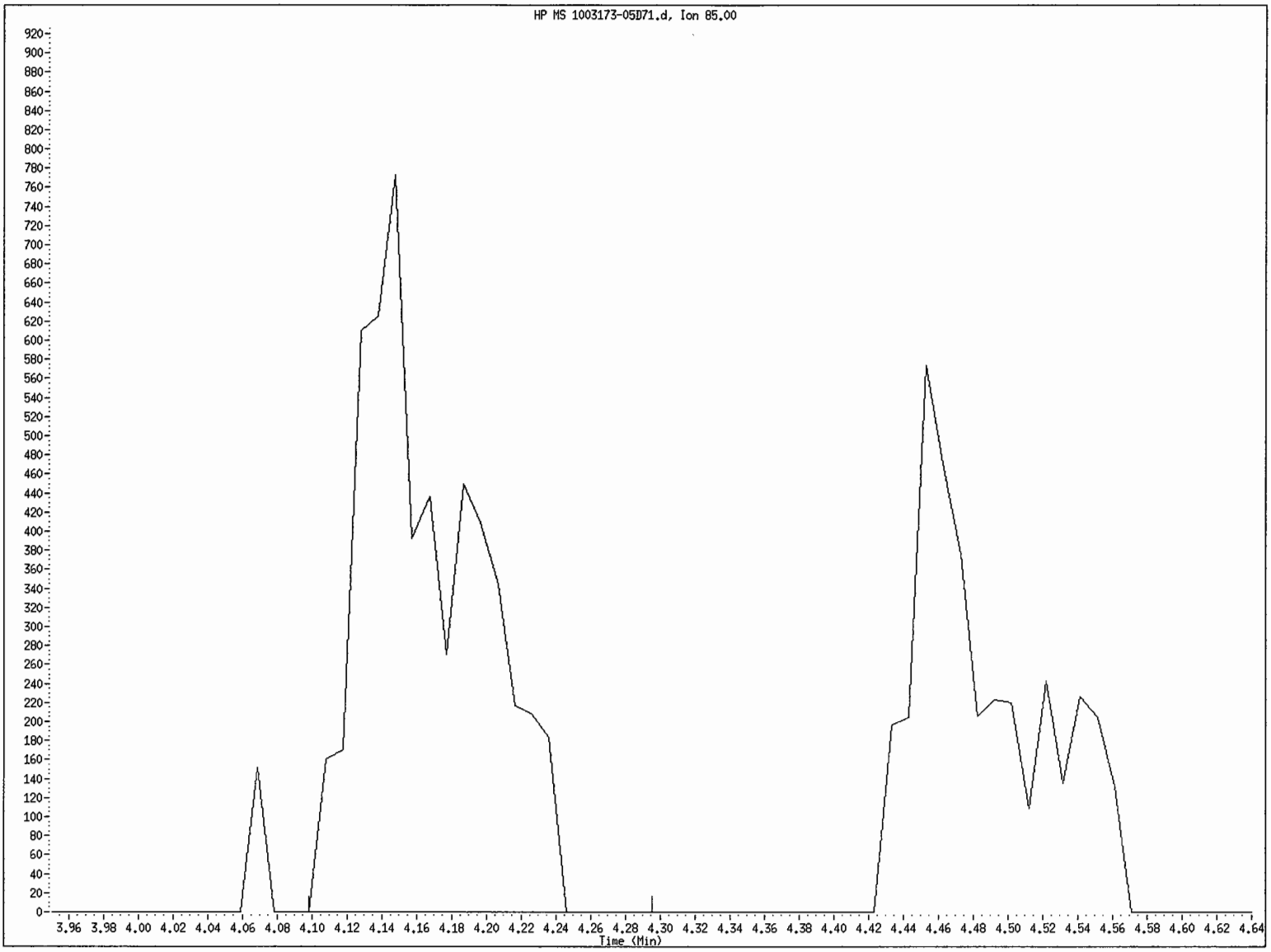
Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d
Report Date: 08-Apr-2010 16:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
79	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81	1,2,3-Trichloropropane	110	Compound Not Detected.					
80	trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92	1,3-Dichlorobenzene	146	Compound Not Detected.					
93	1,4-Dichlorobenzene	146	14.739	14.734	(1.001)	30919	21.3167	1.4
95	1,2-Dichlorobenzene	146	15.024	15.029	(1.021)	2543	2.15651	0.14(a)
97	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98	Hexachlorobutadiene	225	Compound Not Detected.					
99	Naphthalene	128	Compound Not Detected.					
M 102	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

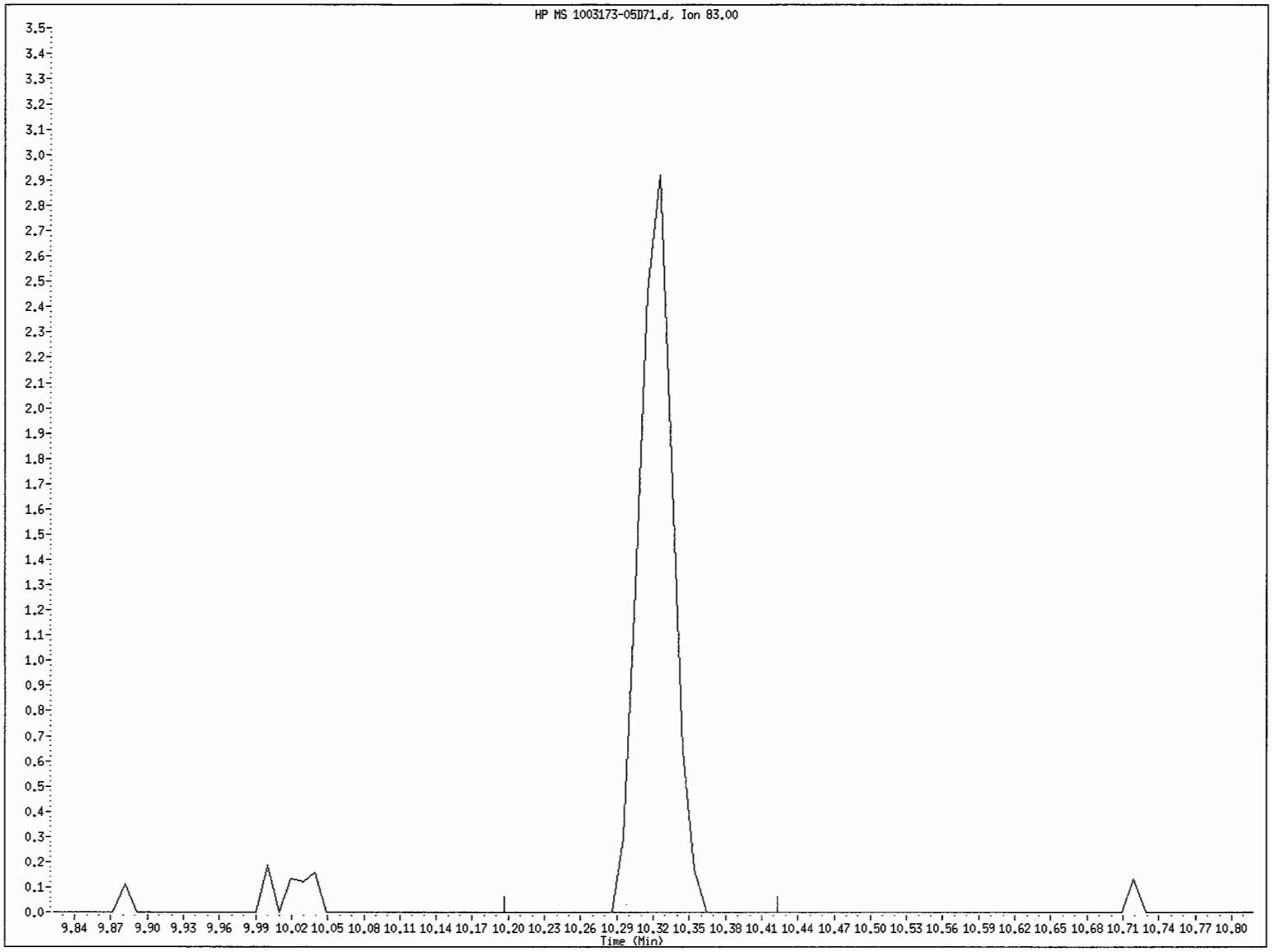
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Dichlorodifluoromethane CAS Number 75-71-8 Area = 3102 Manually integrated



File name: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d
Client ID: MW-12DL
Instrument ID: 5972hp71.i
Injection Date and Time: 31-MAR-2010 21:37
Retention Time: 4.15
Operator ID: JAO

Chloroform CAS Number 67-66-3 Area = 5654 Manually integrated



File name: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d
Client ID: MW-12DL
Instrument ID: 5972hp71.i
Injection Date and Time: 31-MAR-2010 21:37
Retention Time: 10.32
Operator ID: JAO

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

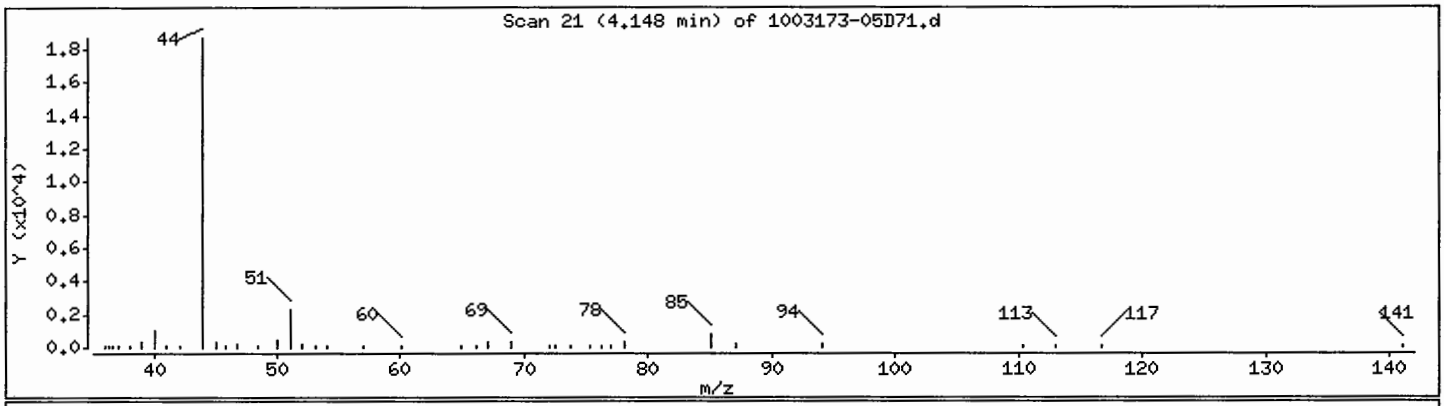
Operator: JAO

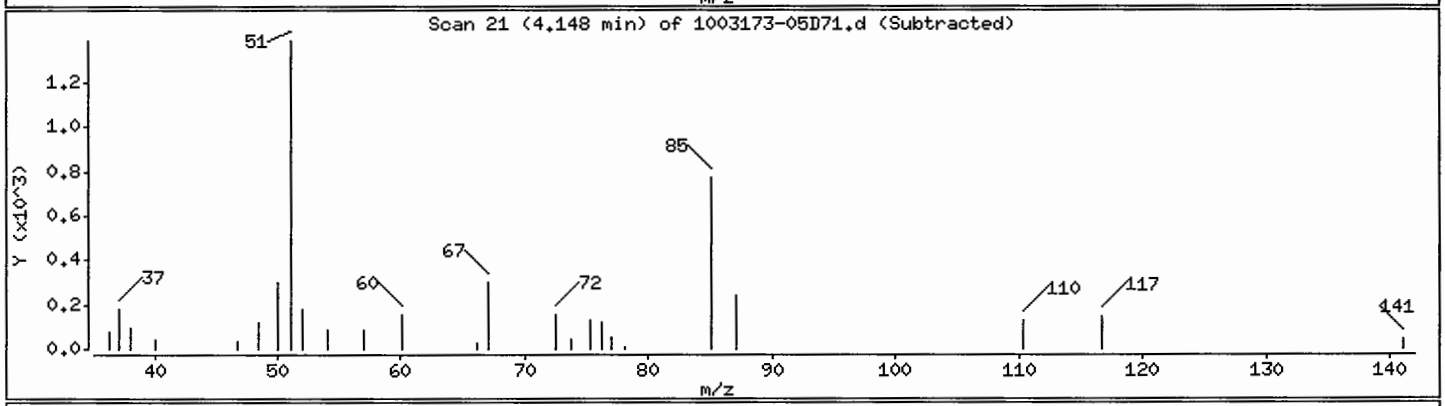
Column phase: SPB-624

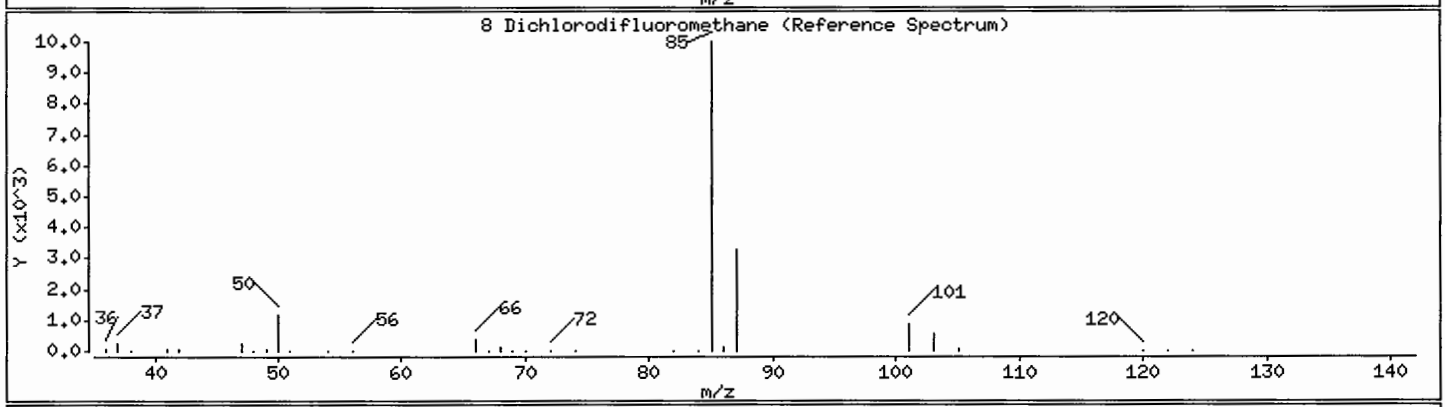
Column diameter: 0.32

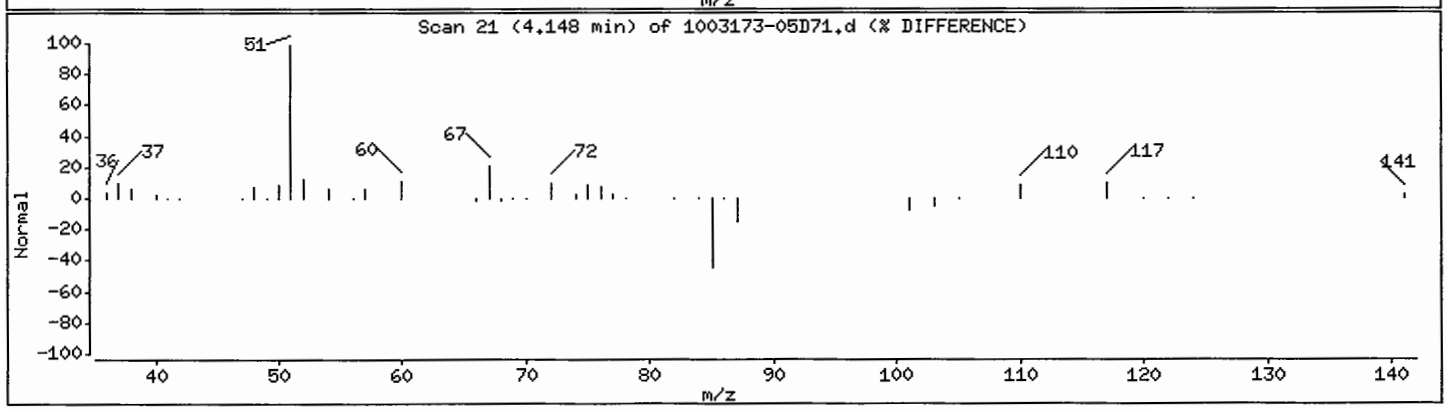
8 Dichlorodifluoromethane

Concentration: 0.15 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

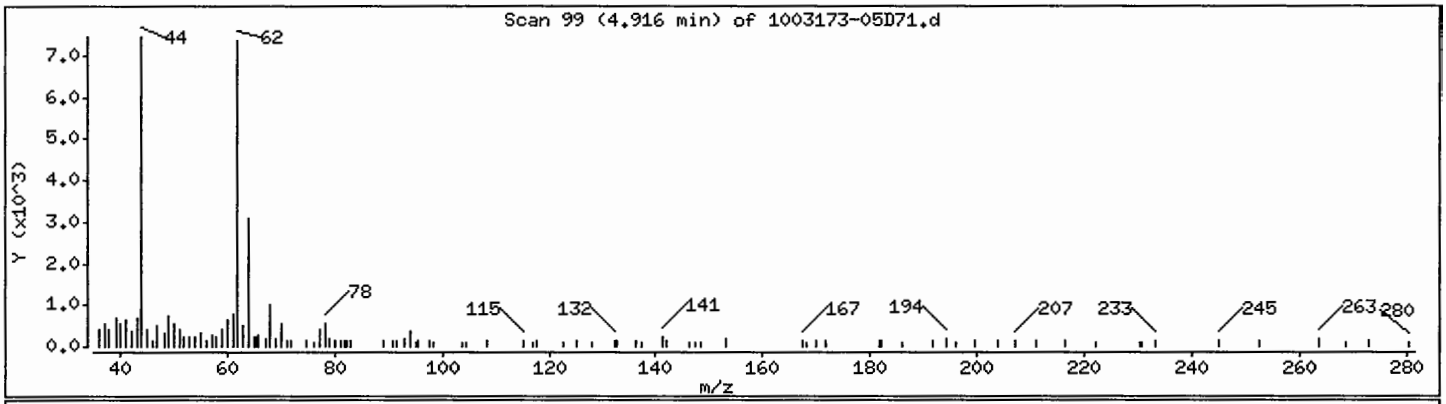
Operator: JAO

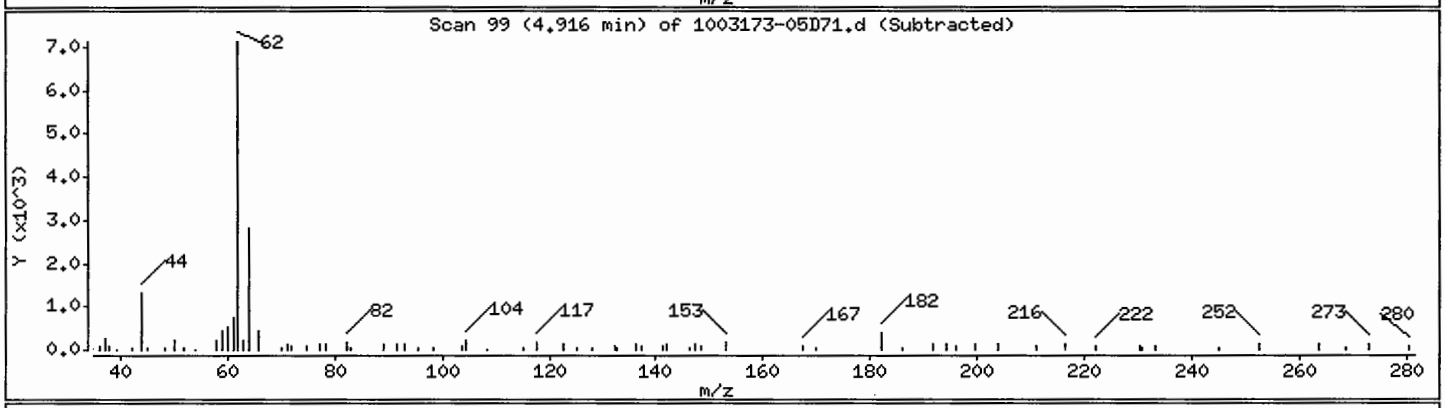
Column phase: SPB-624

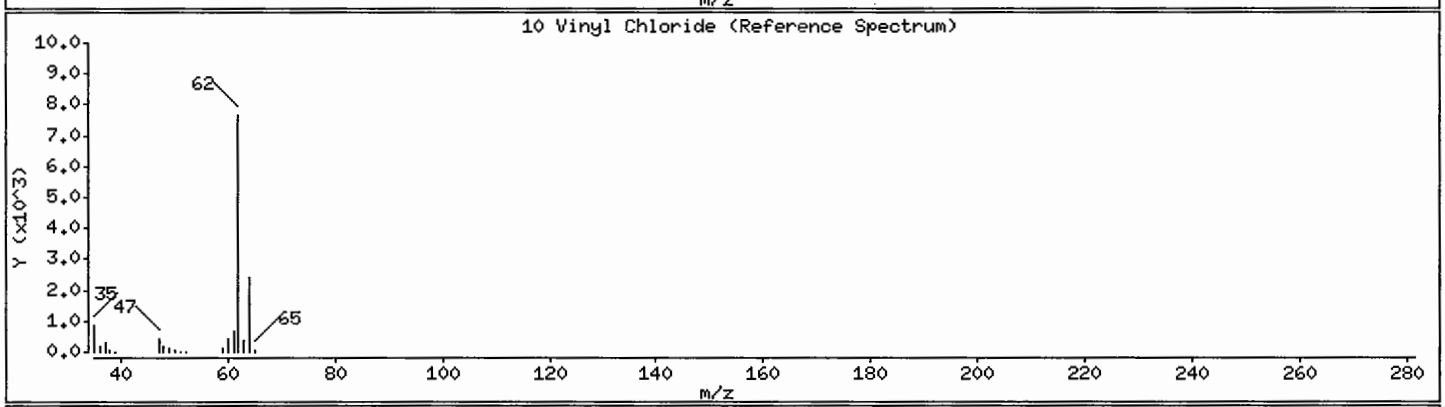
Column diameter: 0.32

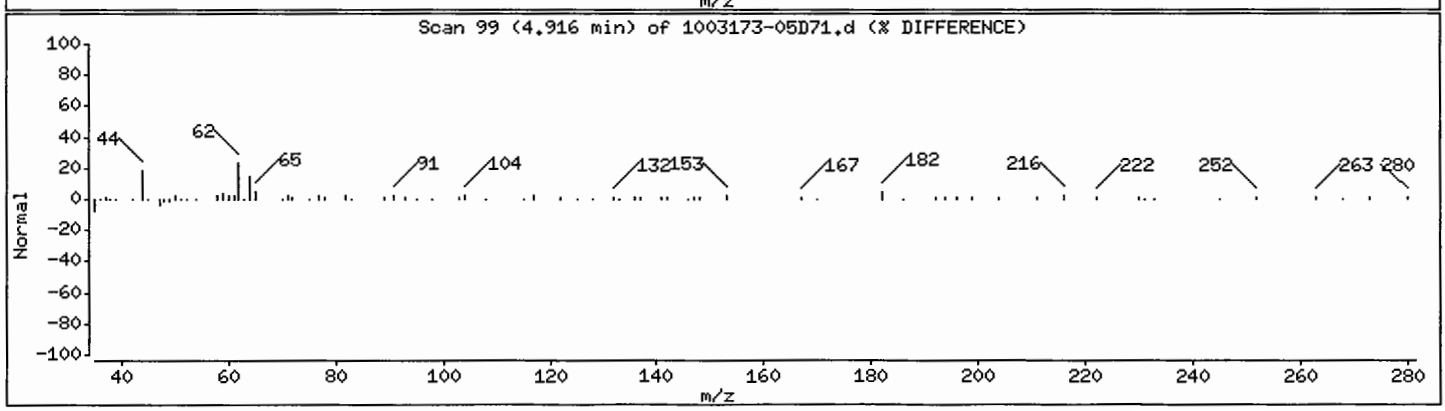
10 Vinyl Chloride

Concentration: 1.7 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

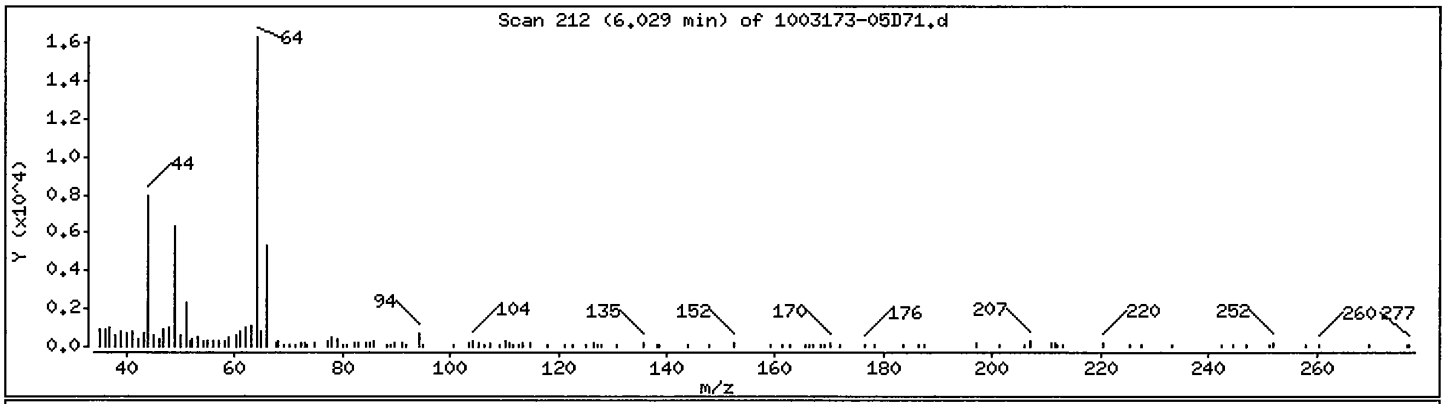
Operator: JAO

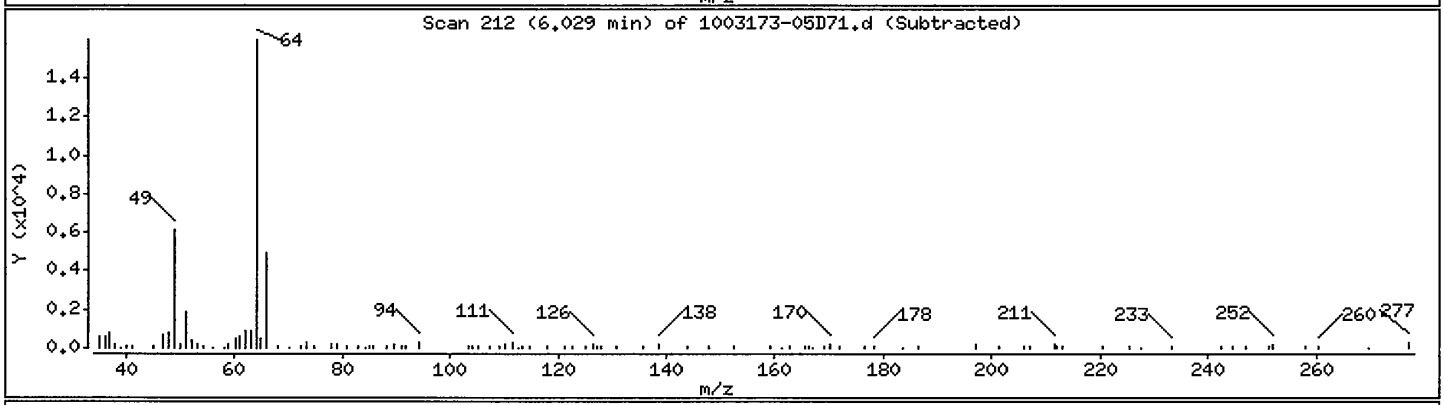
Column phase: SPB-624

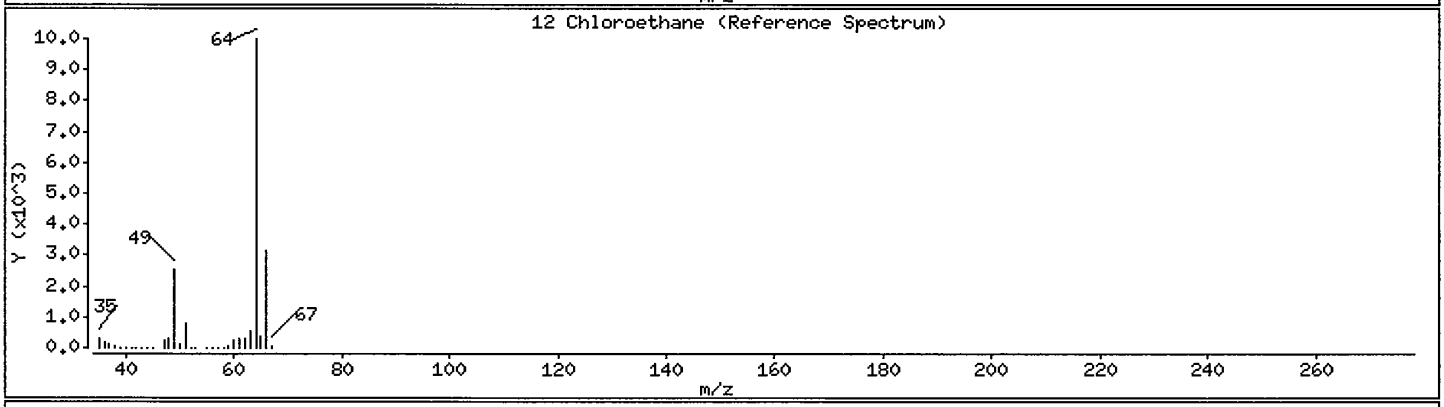
Column diameter: 0.32

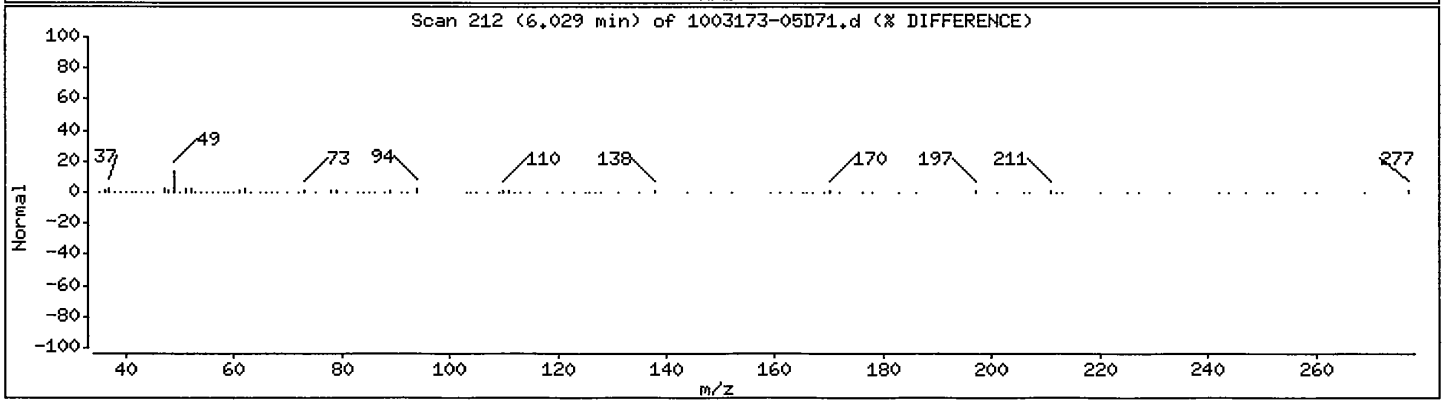
12 Chloroethane

Concentration: 6.3 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

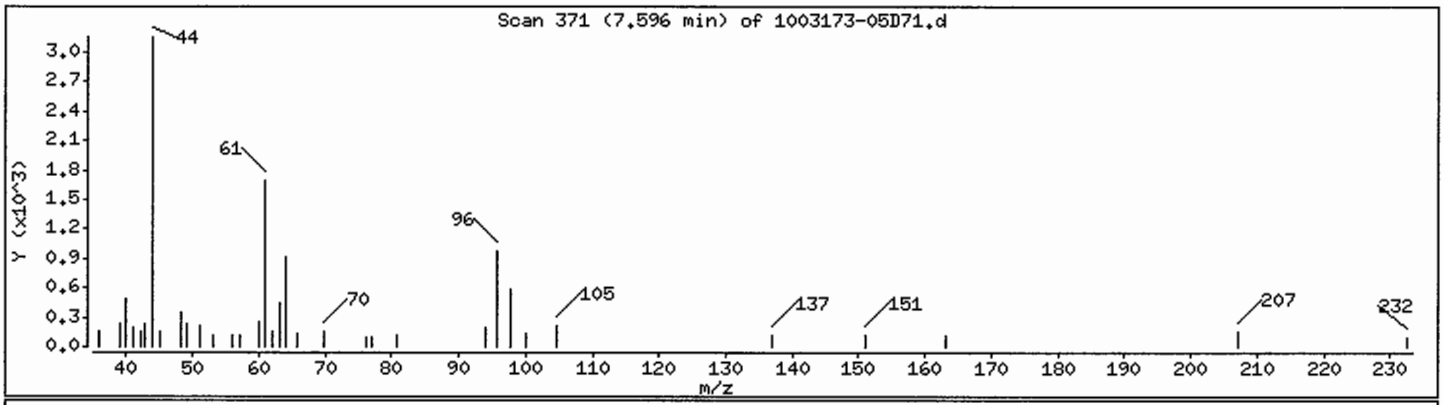
Operator: JAO

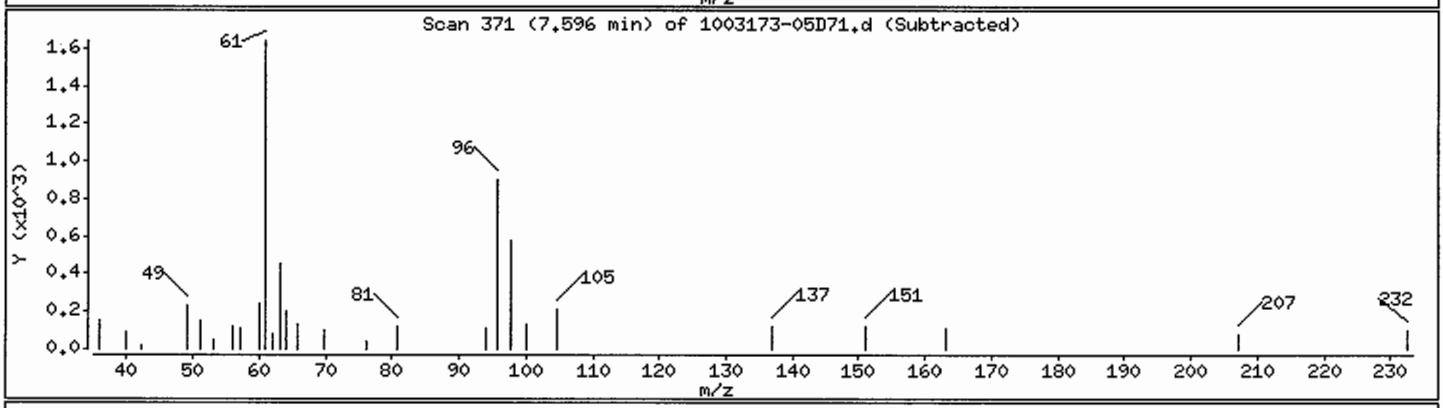
Column phase: SPB-624

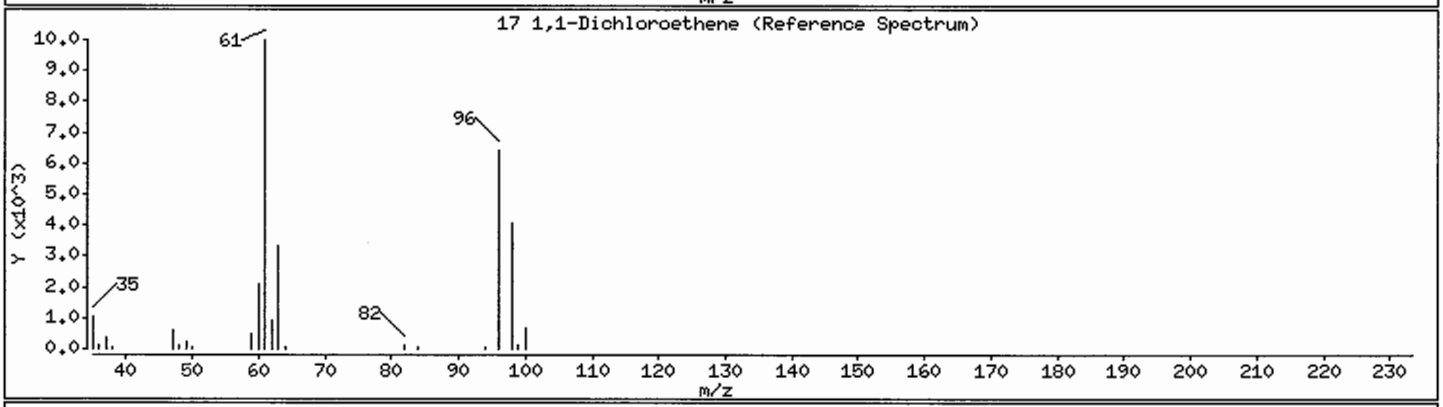
Column diameter: 0.32

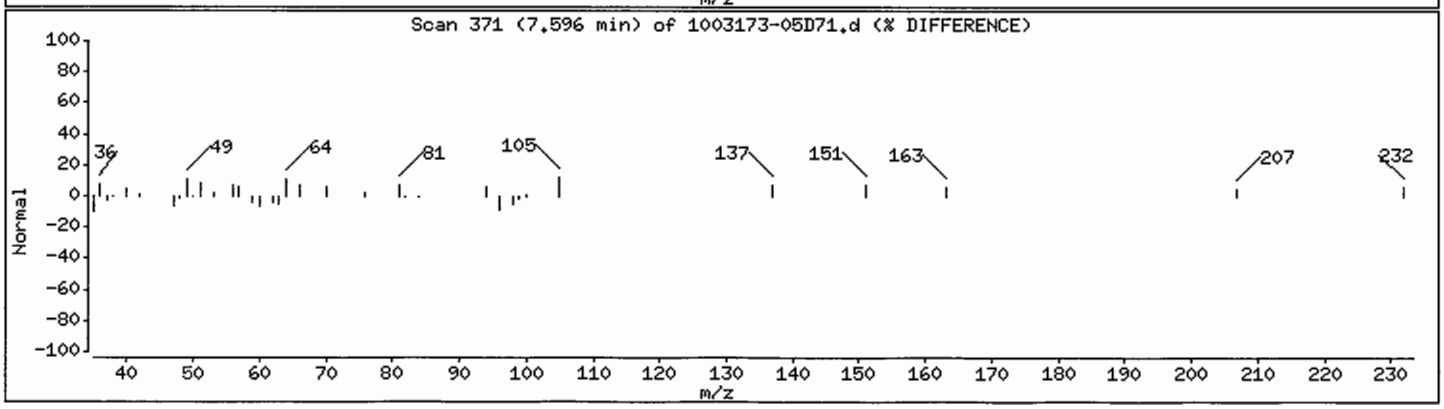
17 1,1-Dichloroethene

Concentration: 0.26 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

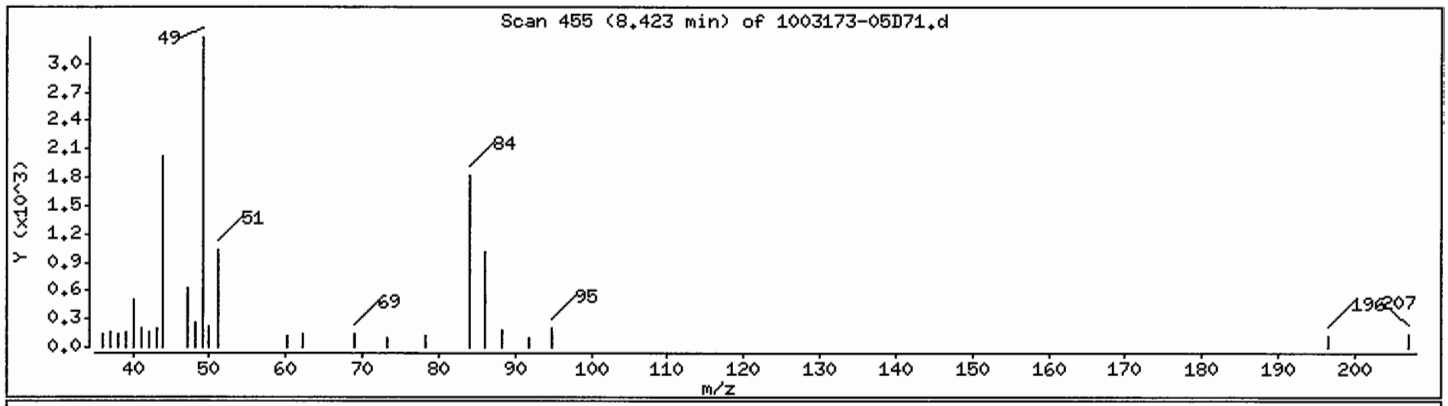
Operator: JAO

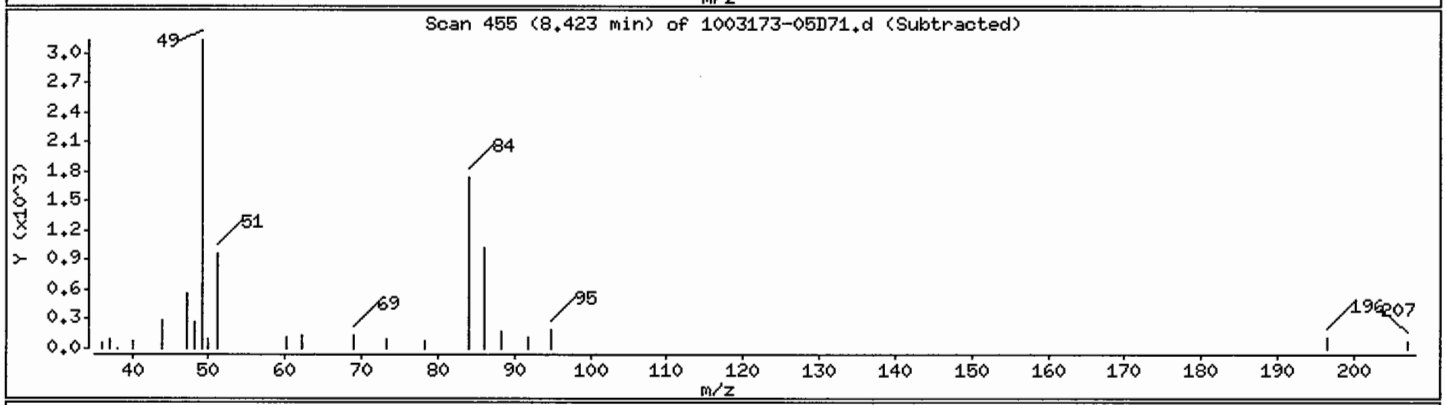
Column phase: SPB-624

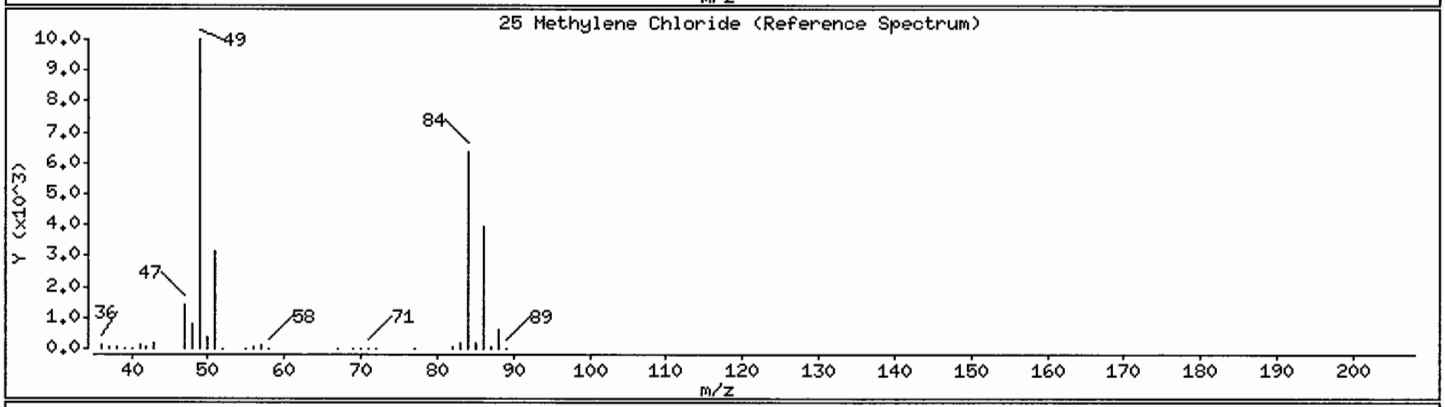
Column diameter: 0.32

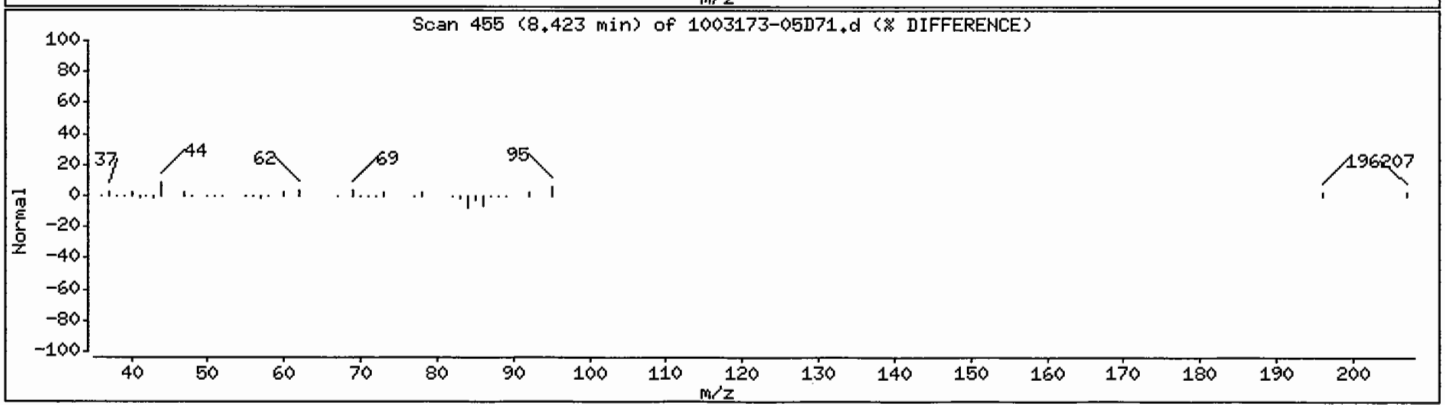
25 Methylene Chloride

Concentration: 0.40 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

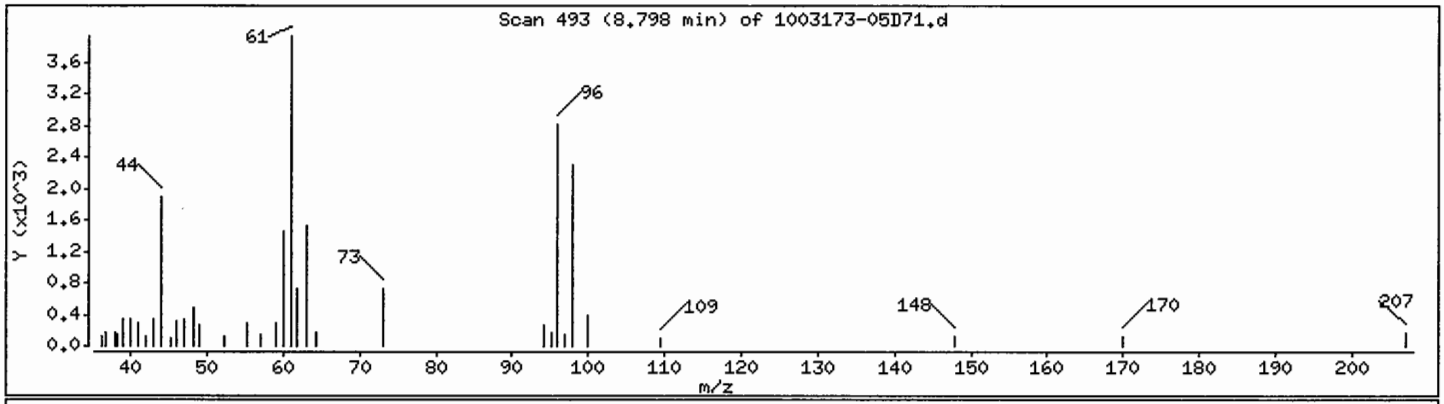
Operator: JAO

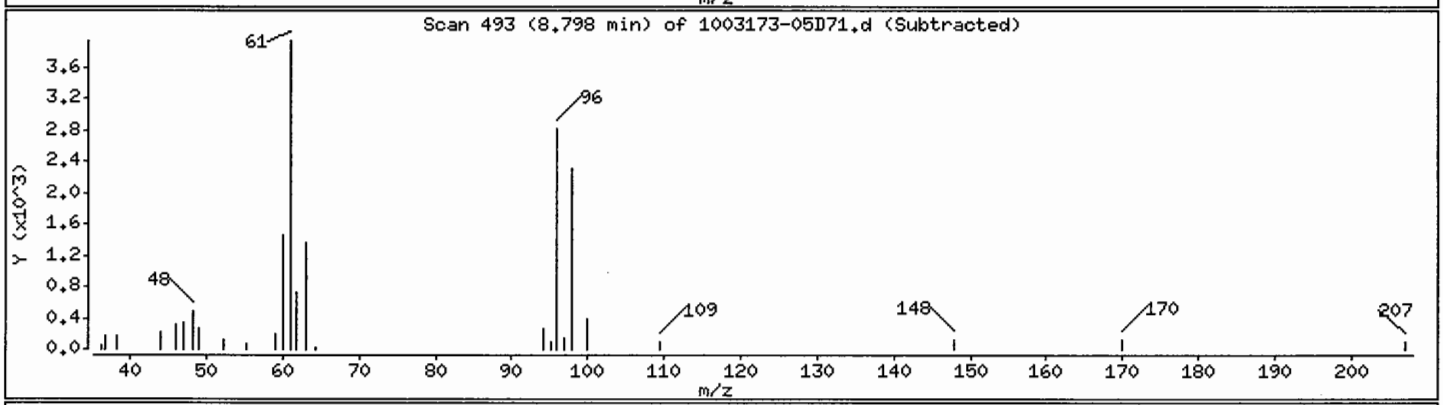
Column phase: SPB-624

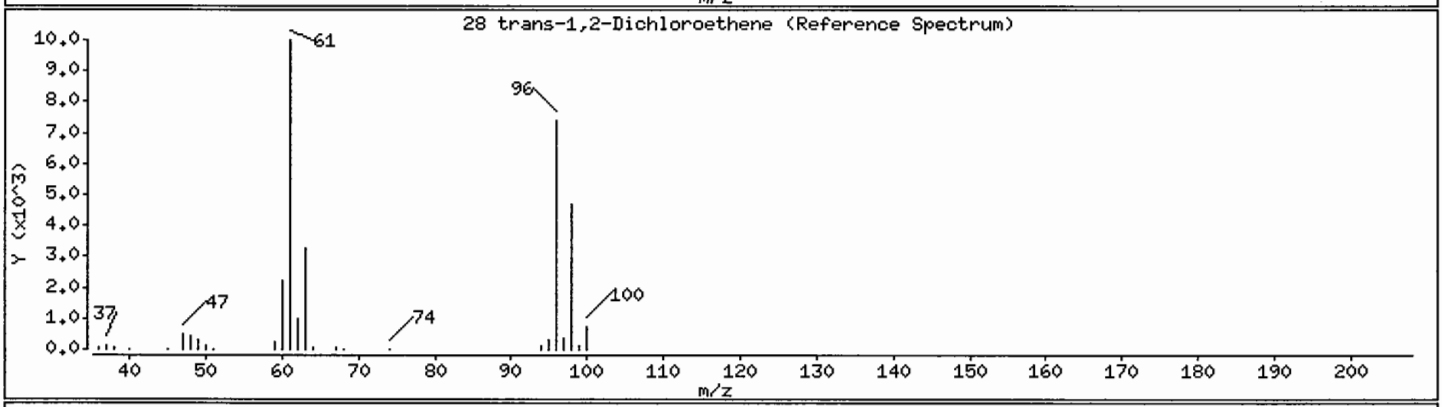
Column diameter: 0.32

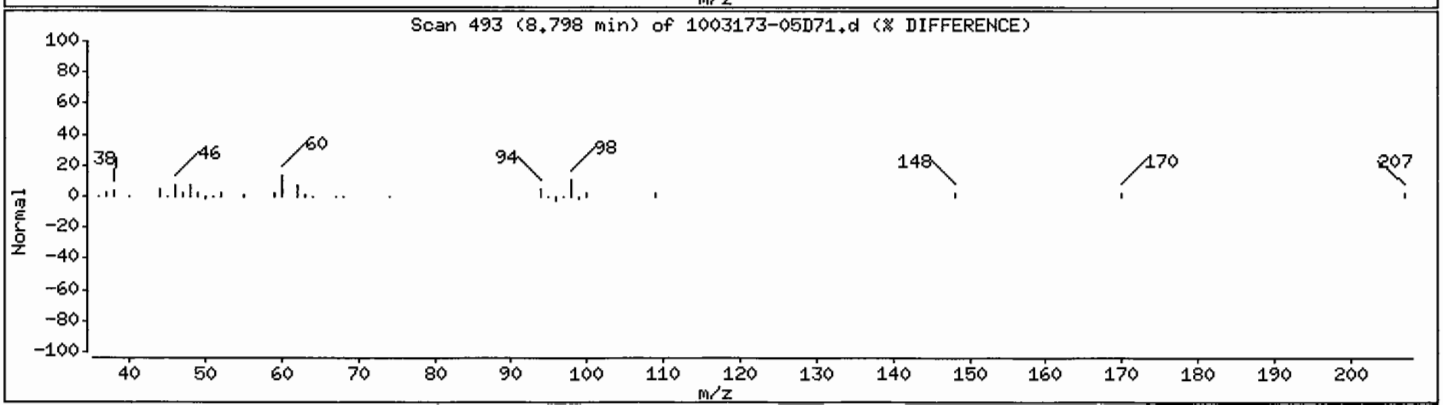
28 trans-1,2-Dichloroethene

Concentration: 0.51 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

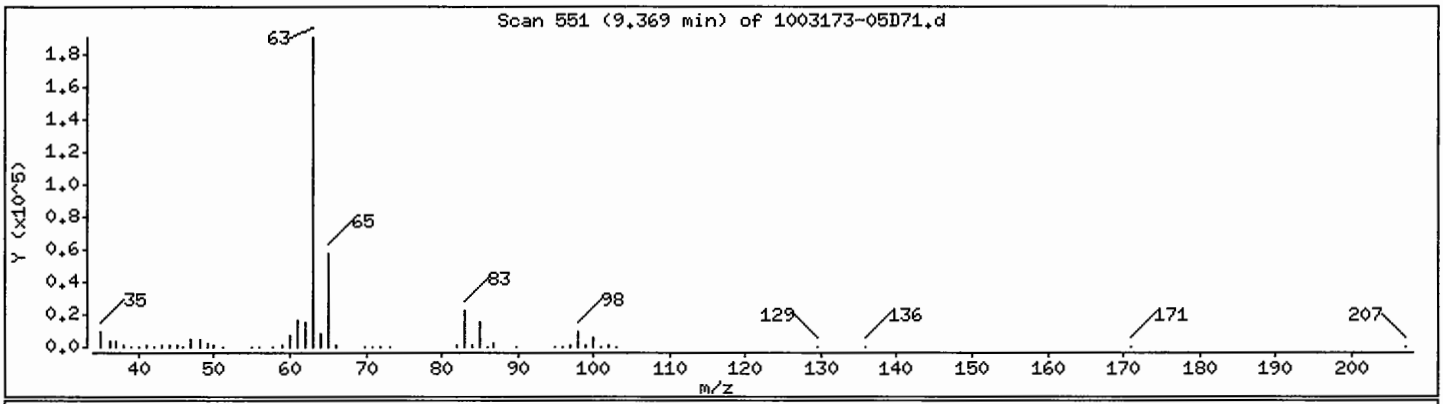
Operator: JAO

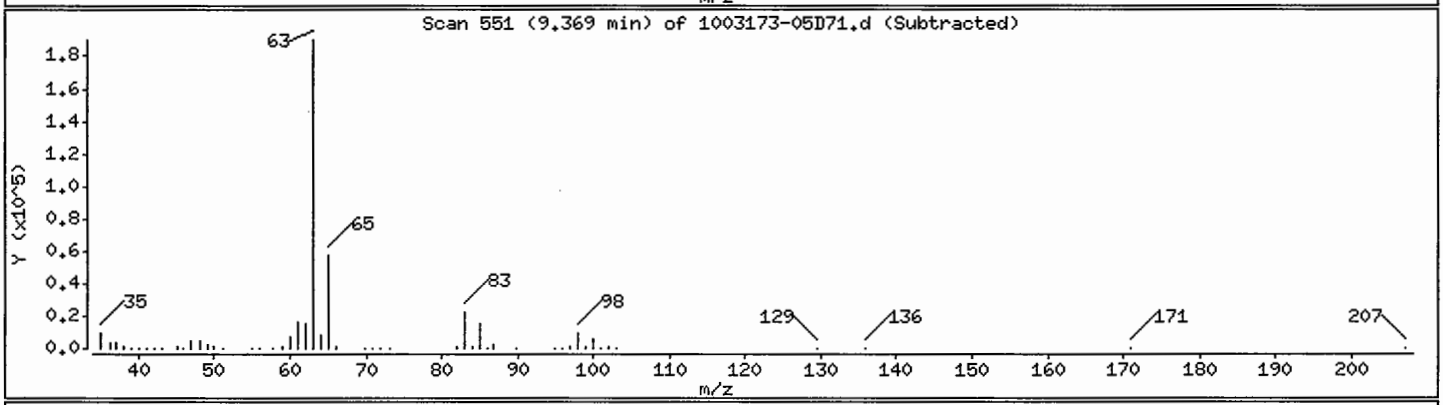
Column phase: SPB-624

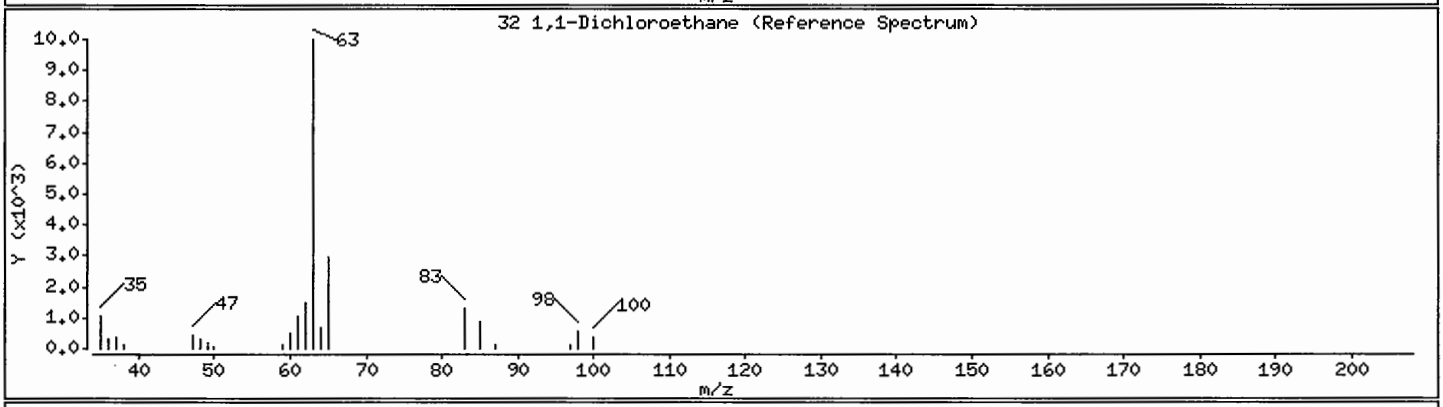
Column diameter: 0.32

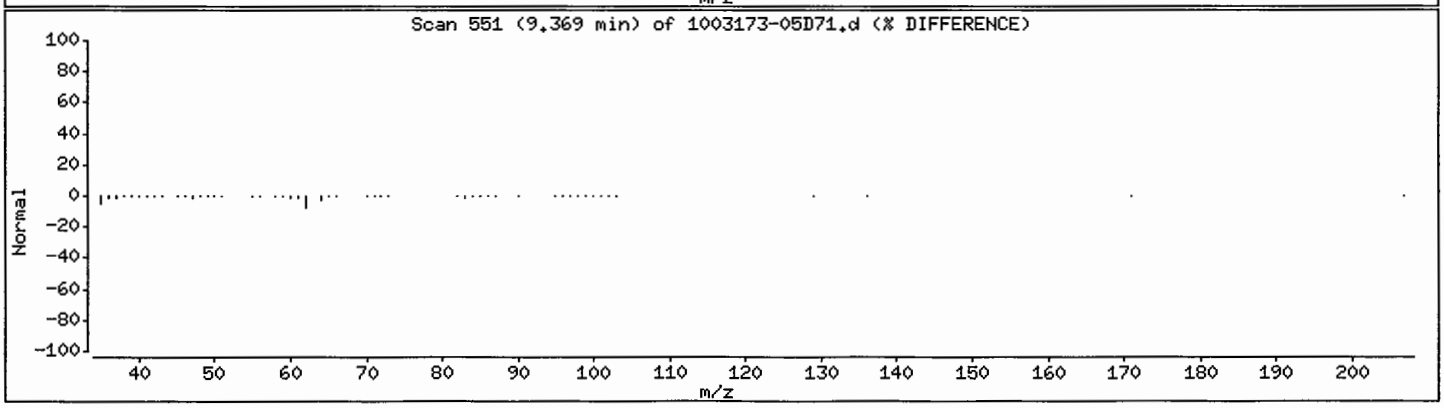
32 1,1-Dichloroethane

Concentration: 19 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

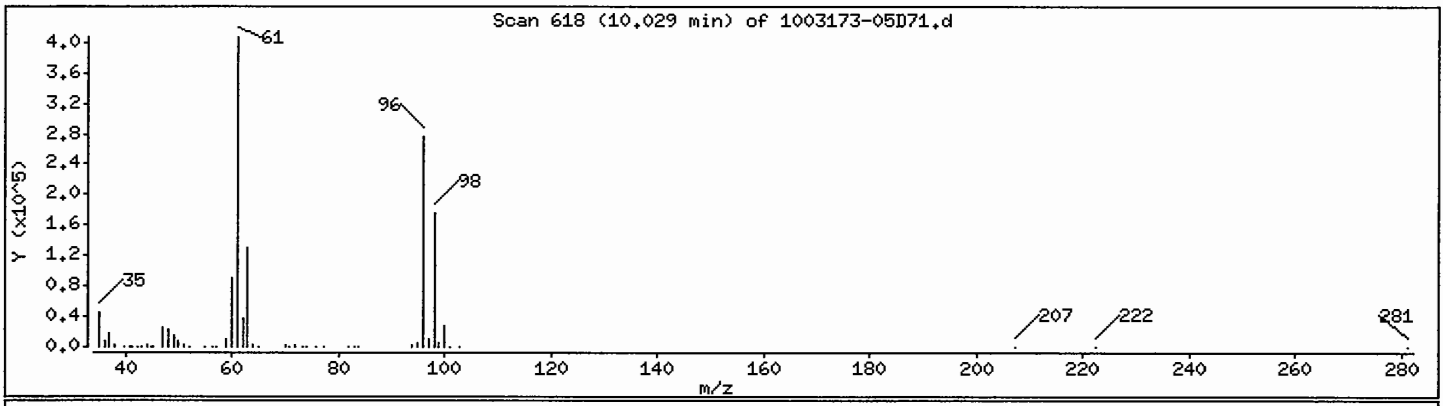
Operator: JAO

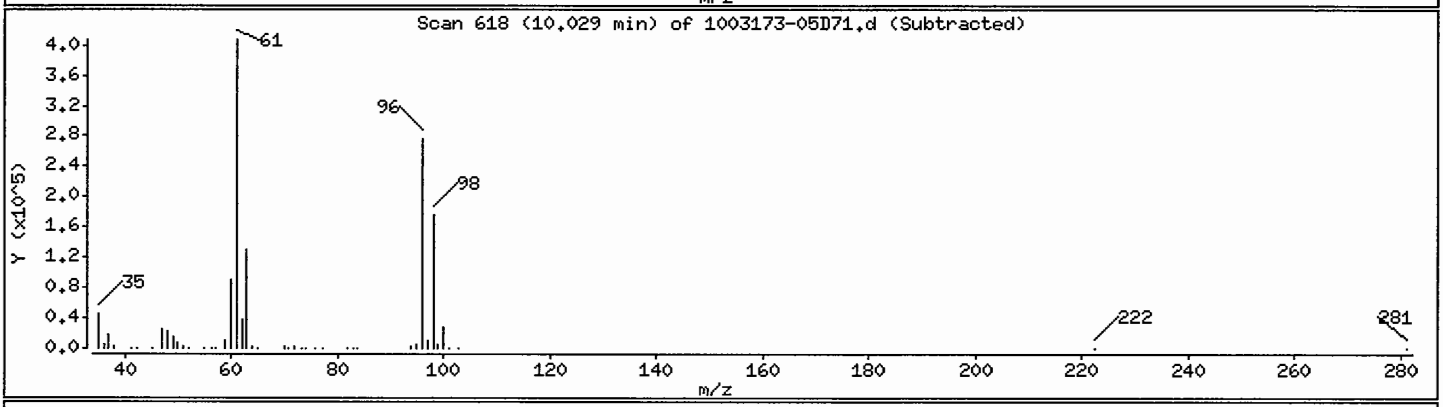
Column phase: SPB-624

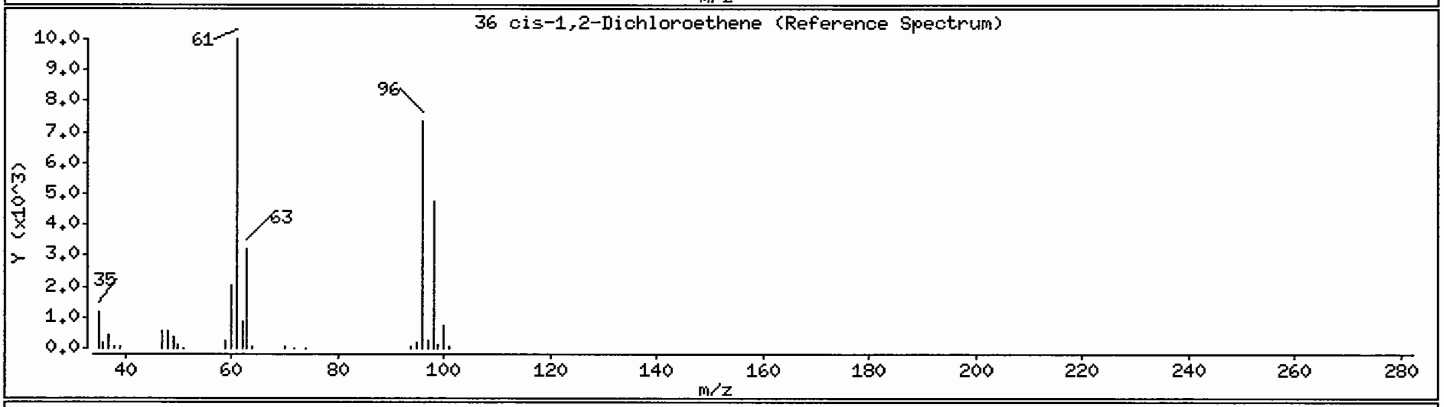
Column diameter: 0.32

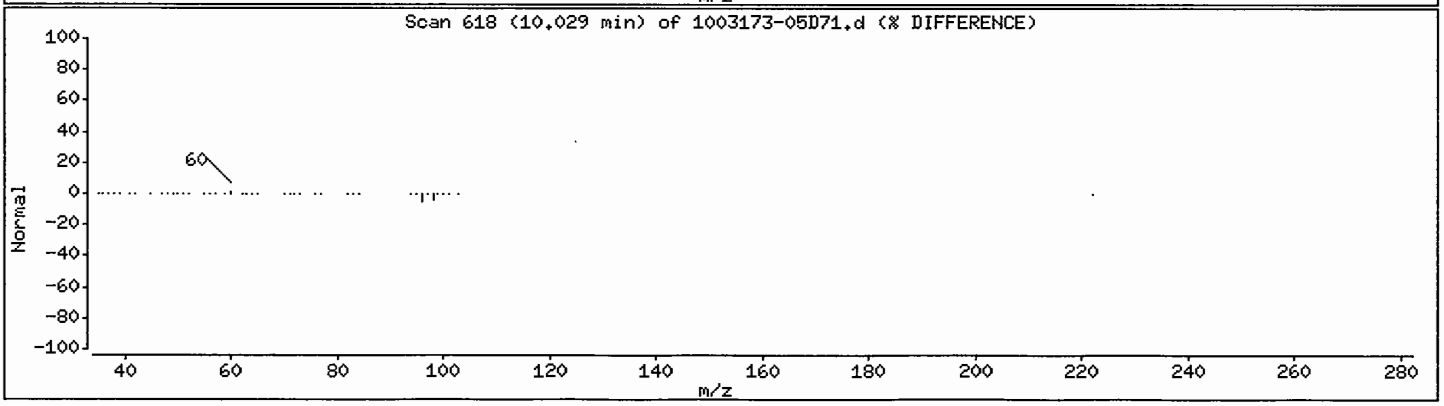
36 cis-1,2-Dichloroethene

Concentration: 41 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

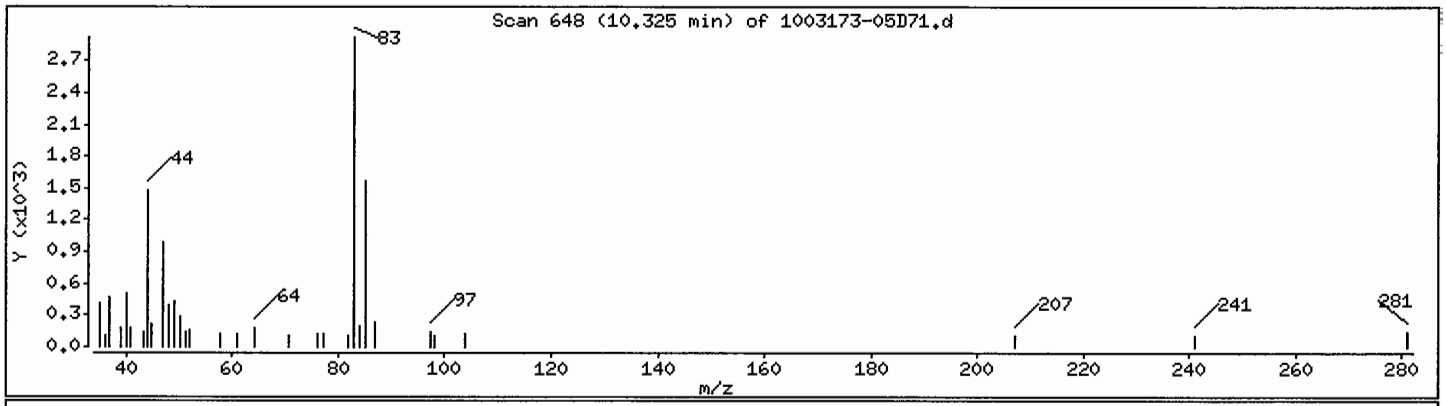
Operator: JAO

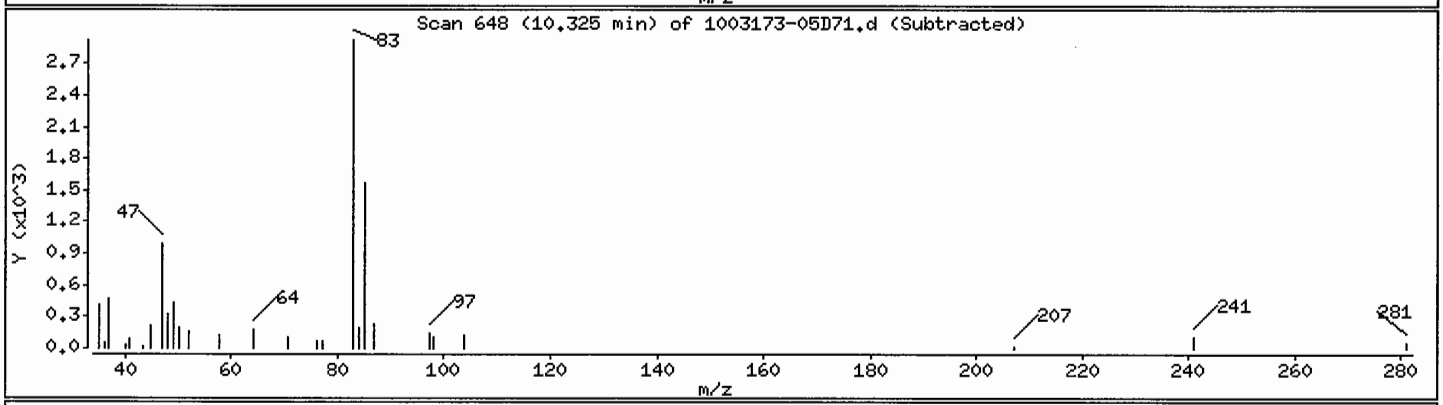
Column phase: SPB-624

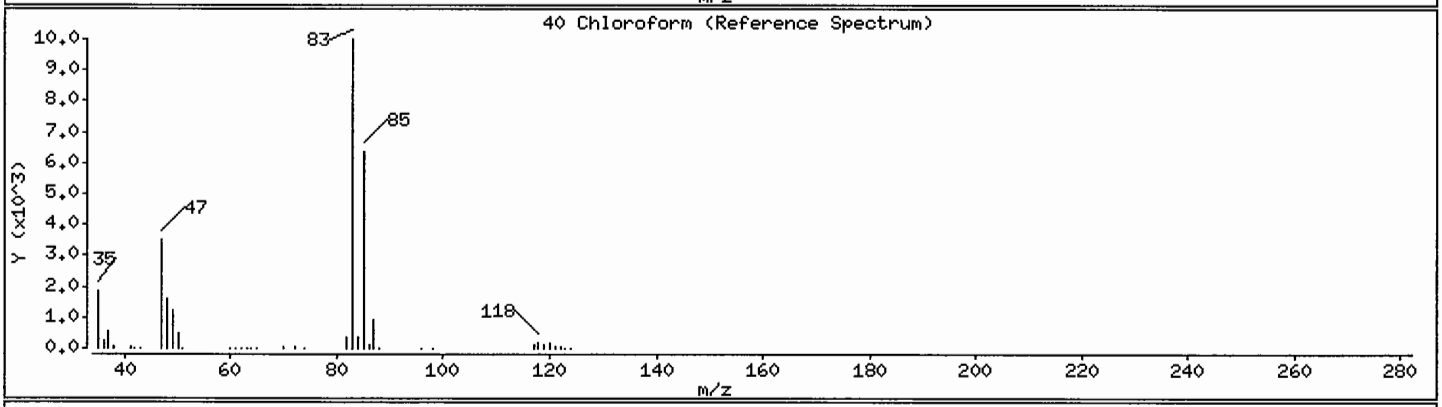
Column diameter: 0.32

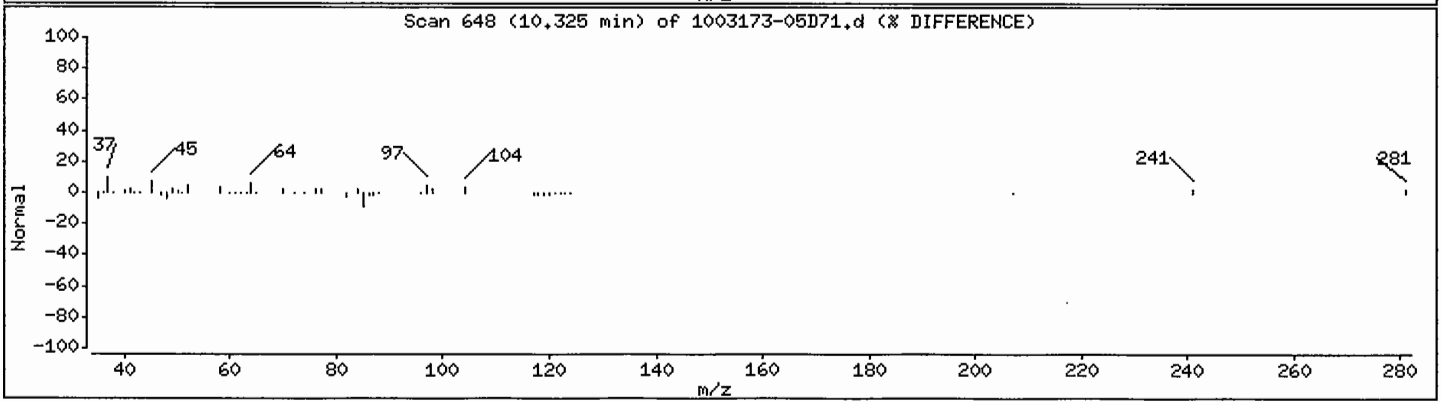
40 Chloroform

Concentration: 0.26 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

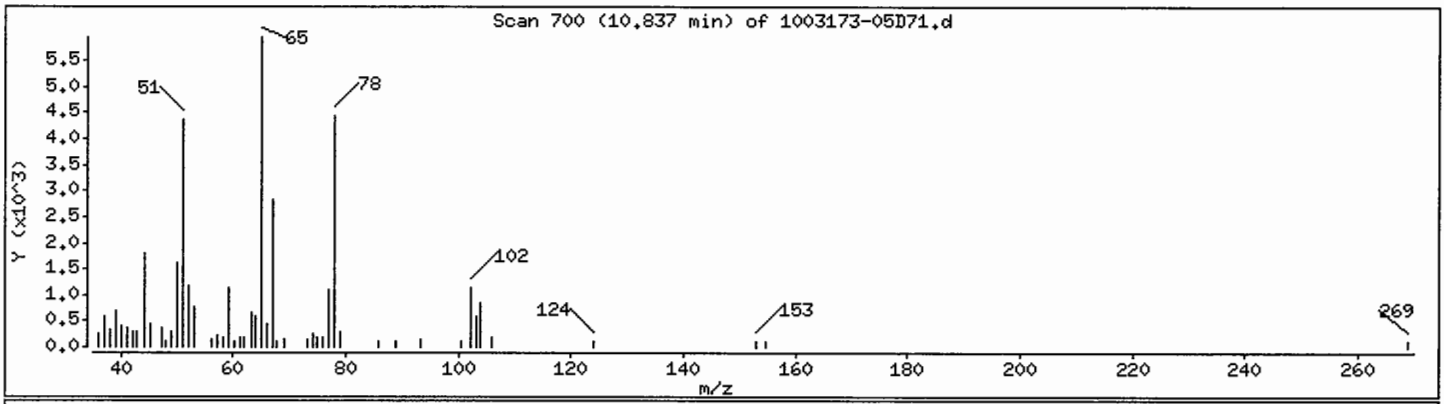
Operator: JAO

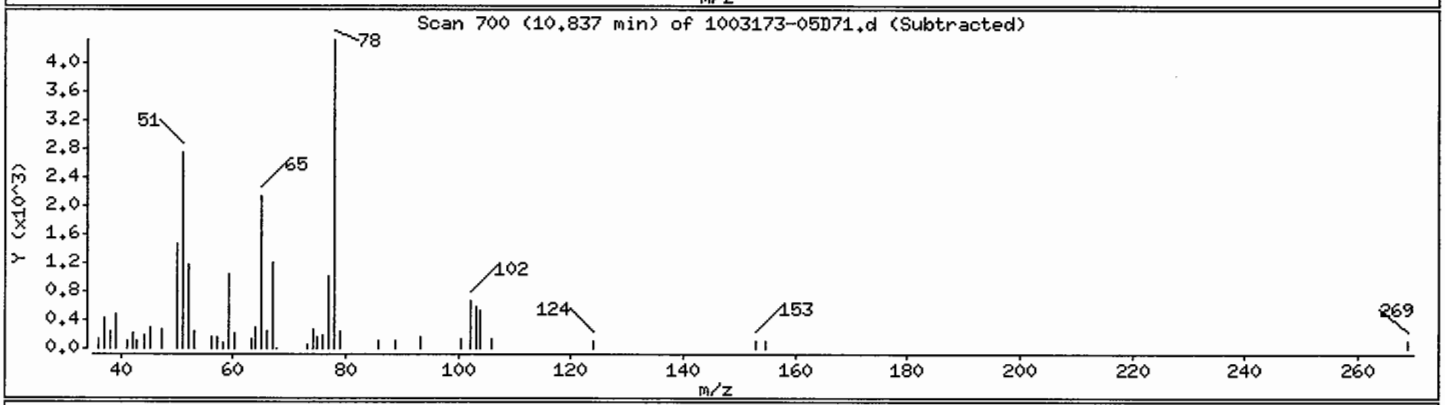
Column phase: SPB-624

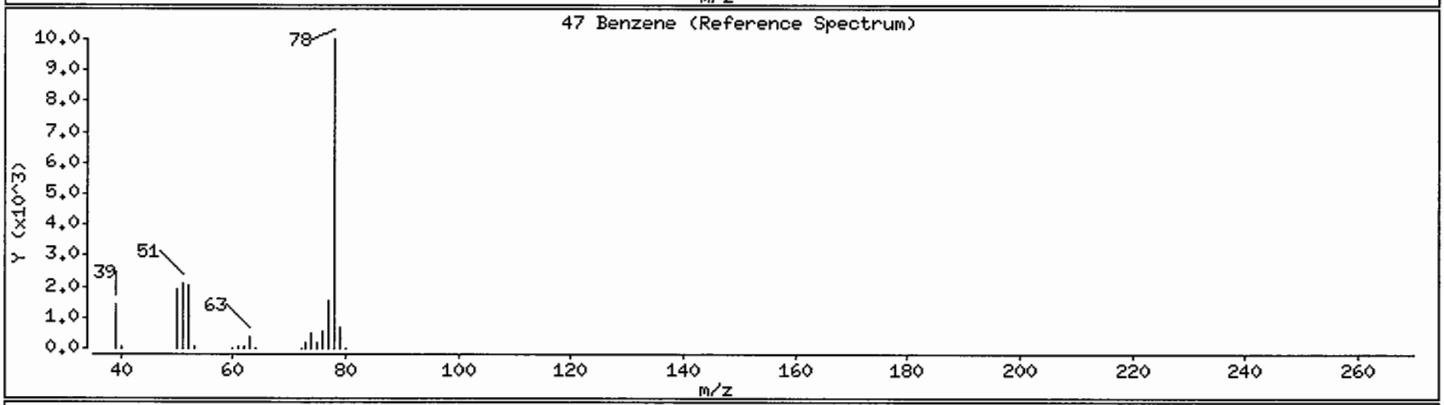
Column diameter: 0.32

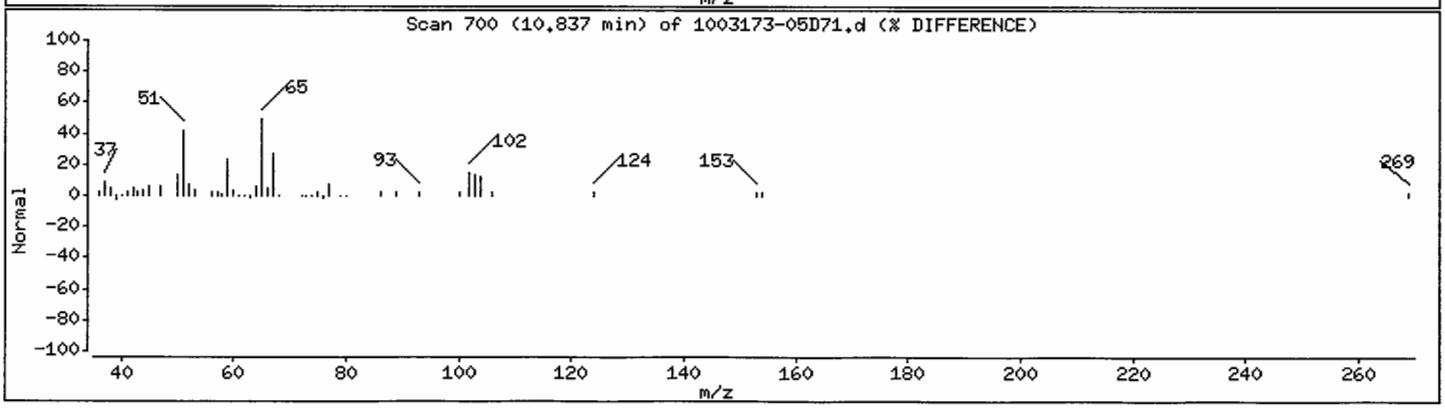
47 Benzene

Concentration: 0.24 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

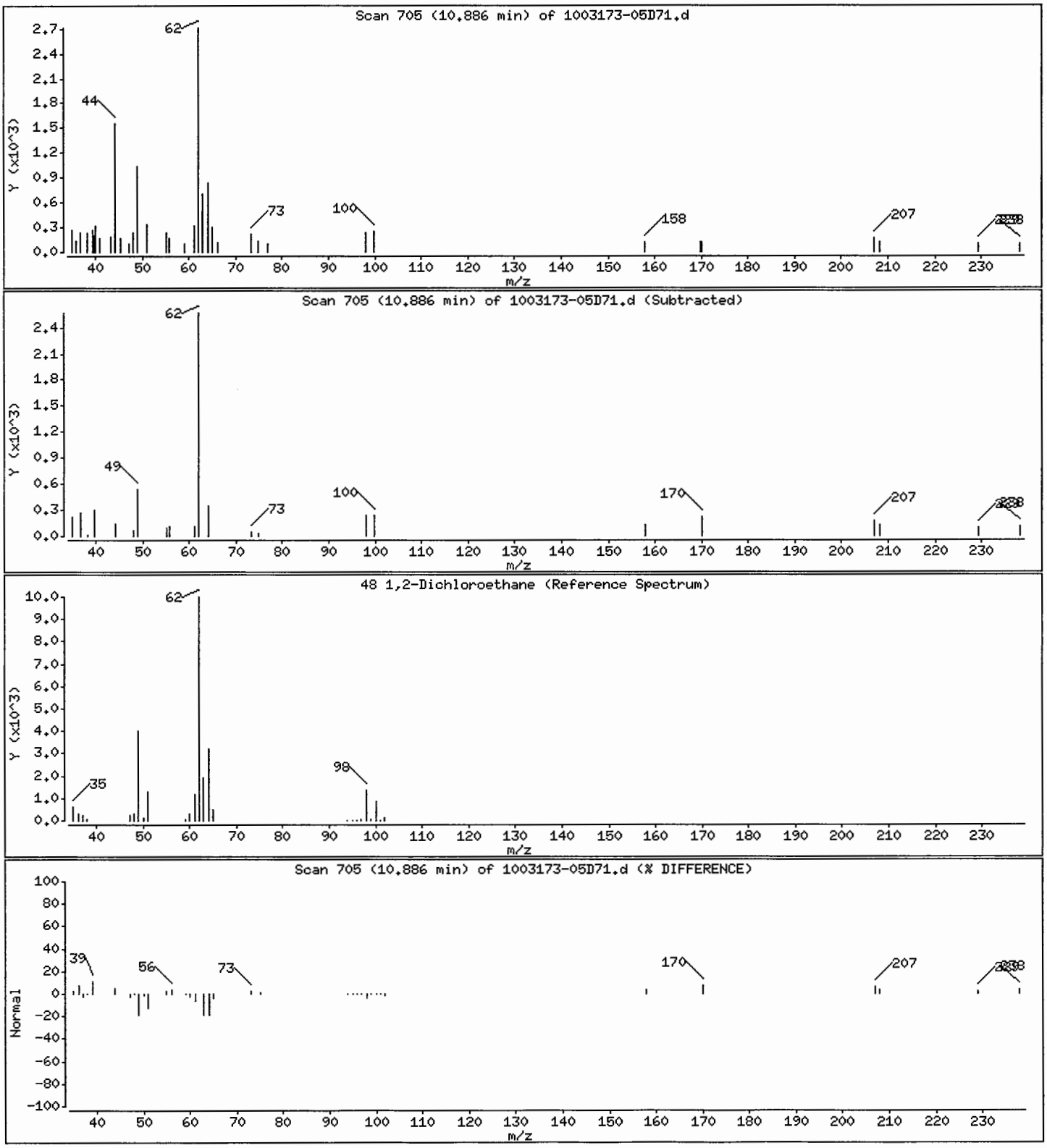
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

48 1,2-Dichloroethane

Concentration: 0.33 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

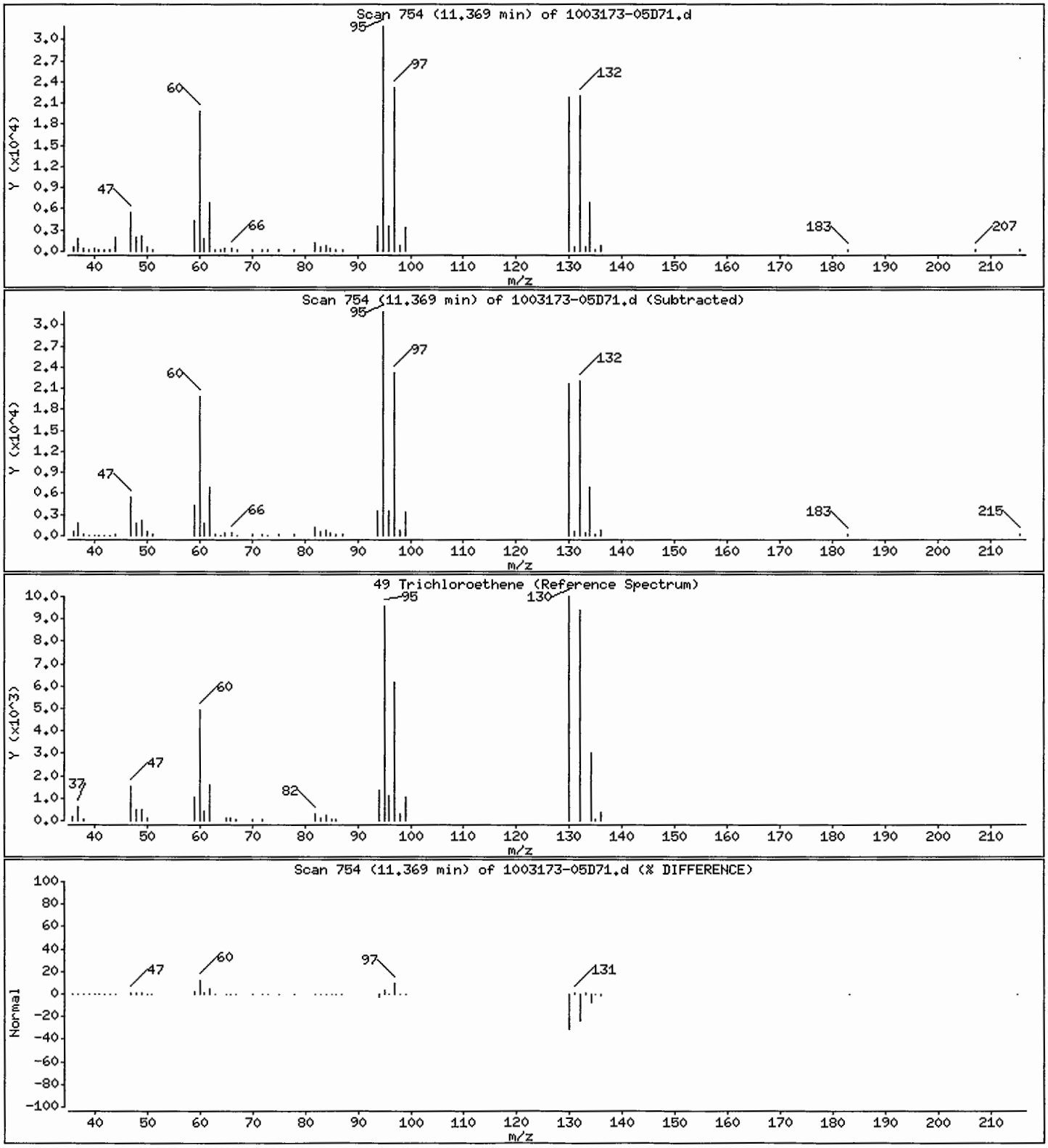
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

49 Trichloroethene

Concentration: 3.7 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

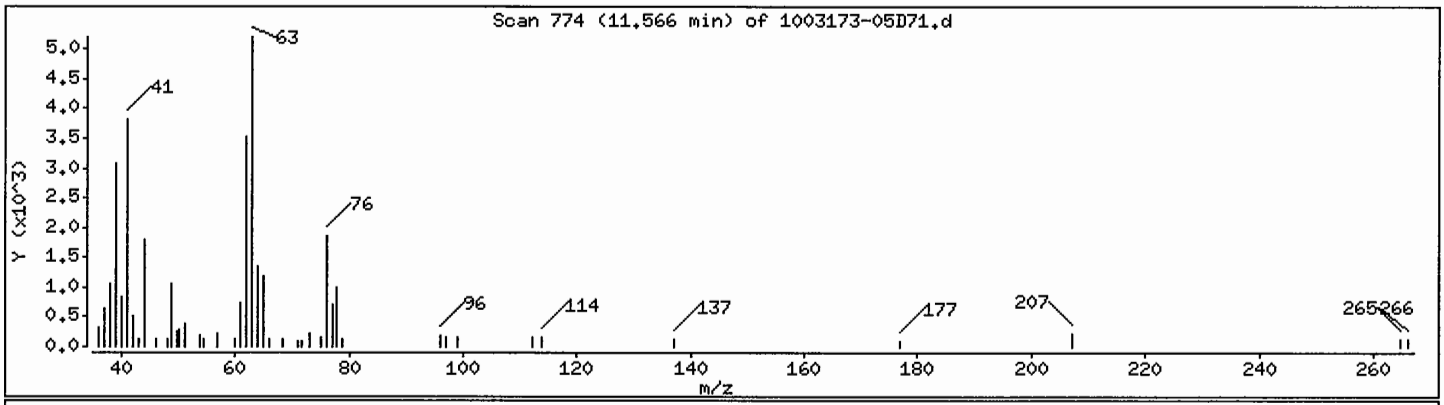
Operator: JAO

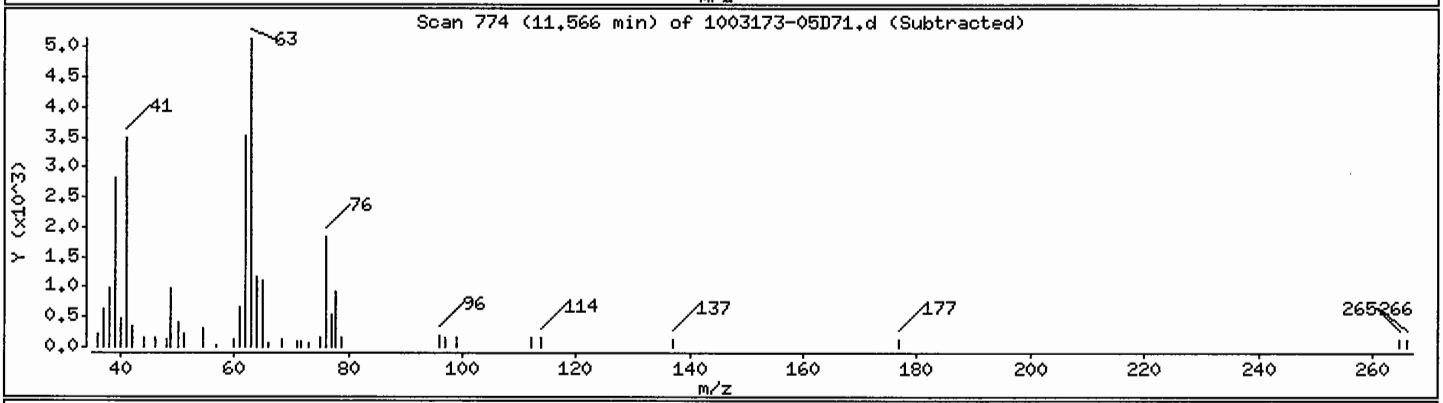
Column phase: SPB-624

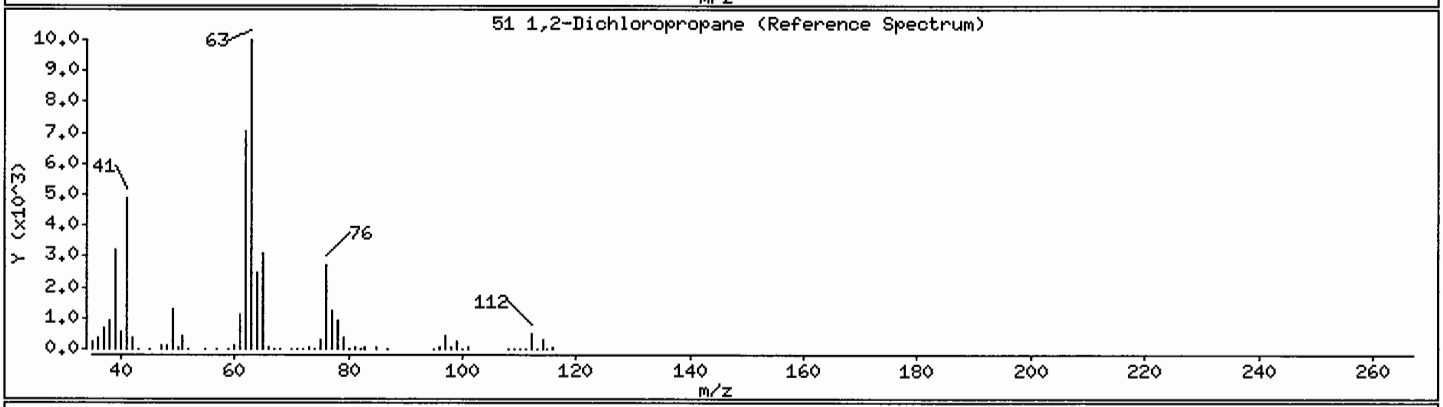
Column diameter: 0.32

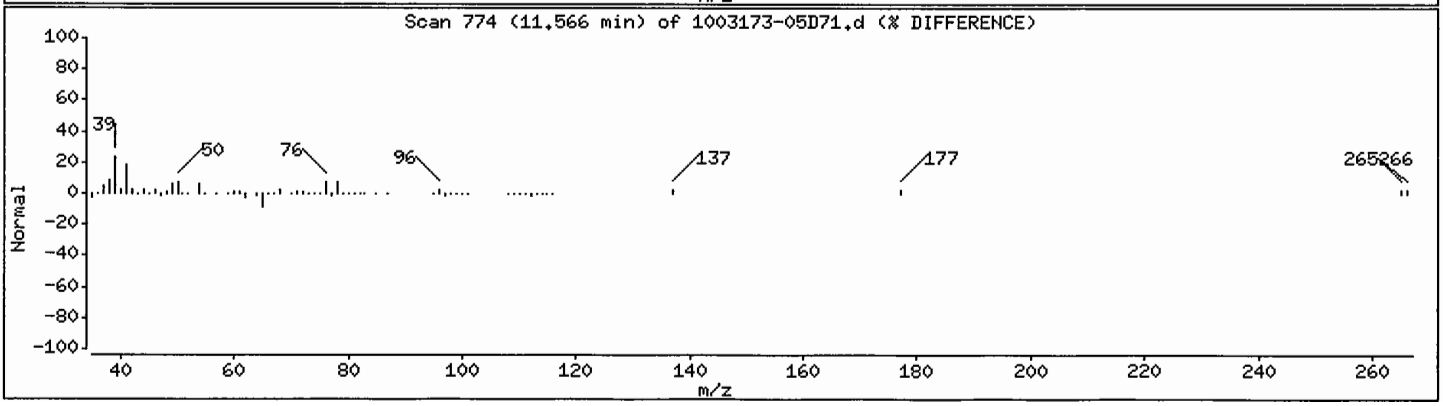
51 1,2-Dichloropropane

Concentration: 0.81 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

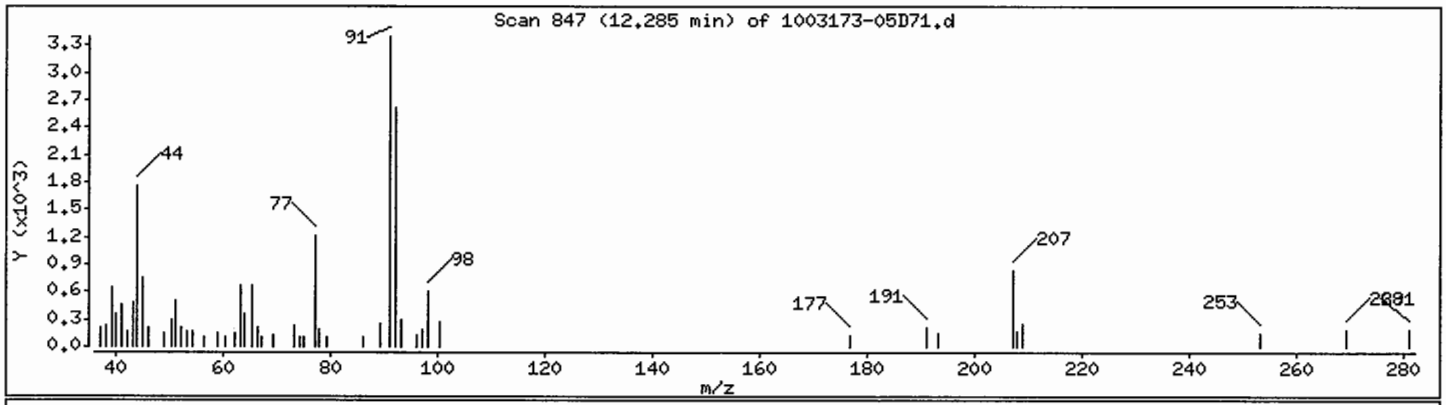
Operator: JAO

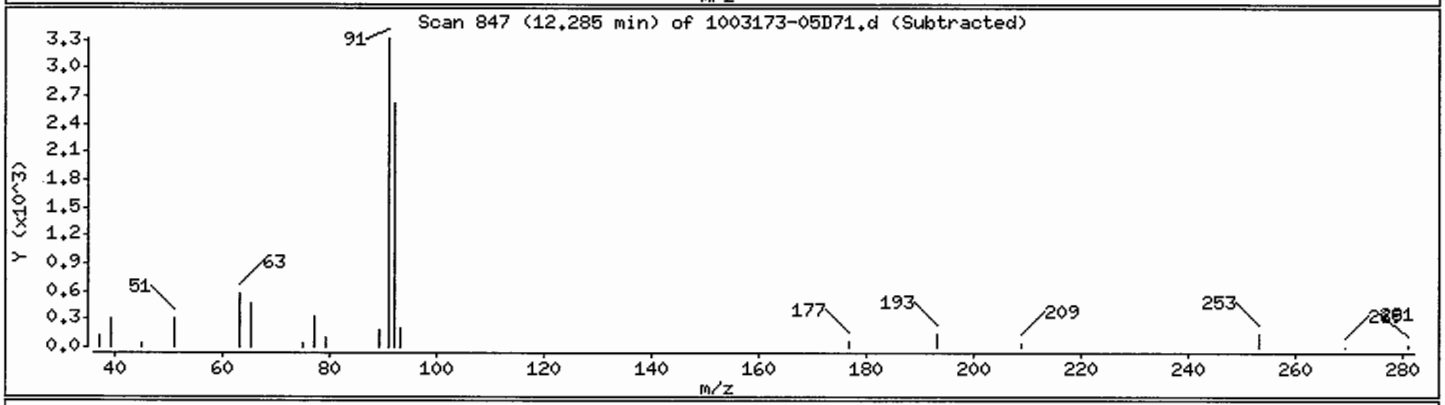
Column phase: SPB-624

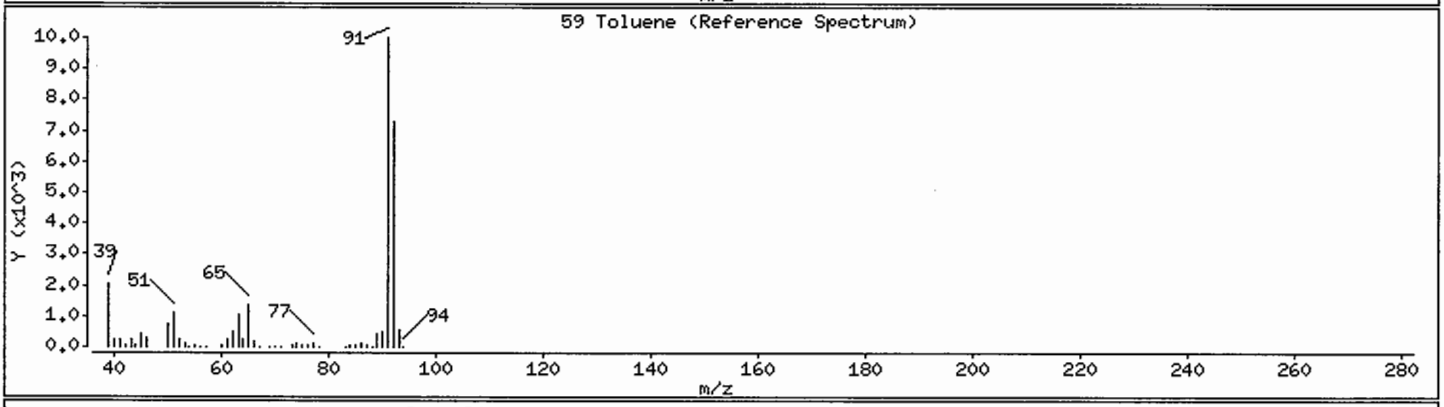
Column diameter: 0.32

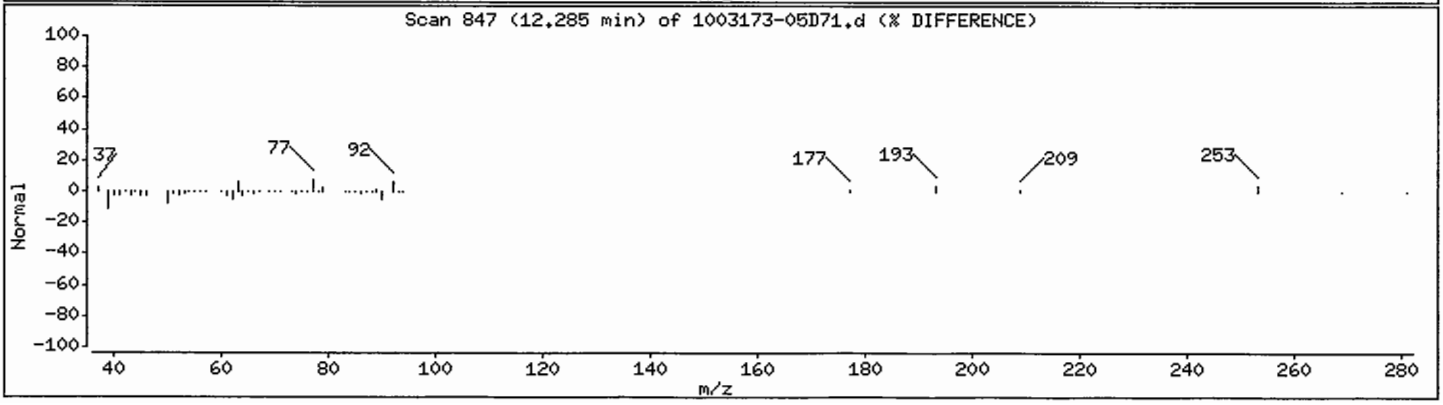
59 Toluene

Concentration: 0.14 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

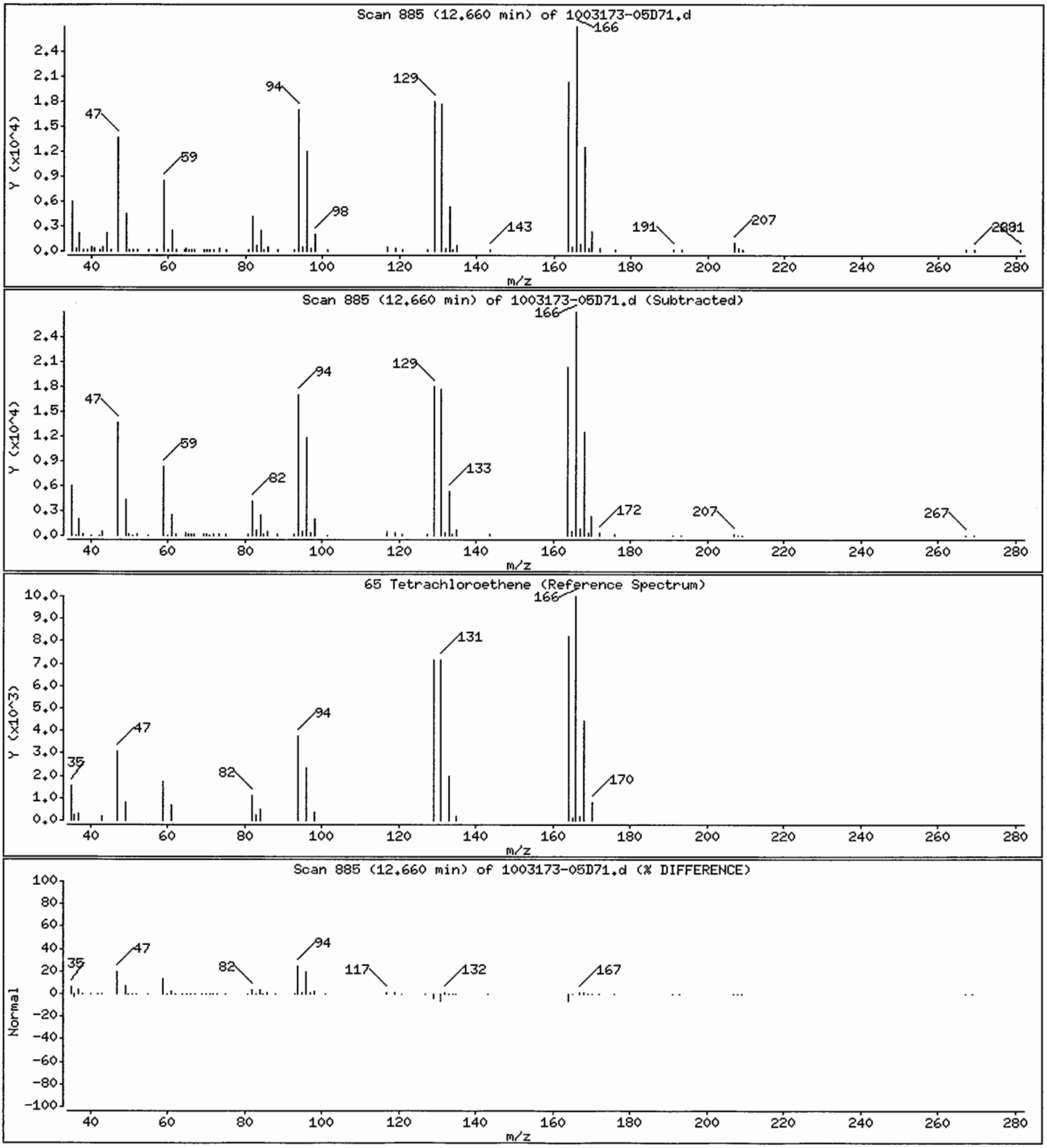
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

65 Tetrachloroethene

Concentration: 2.8 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

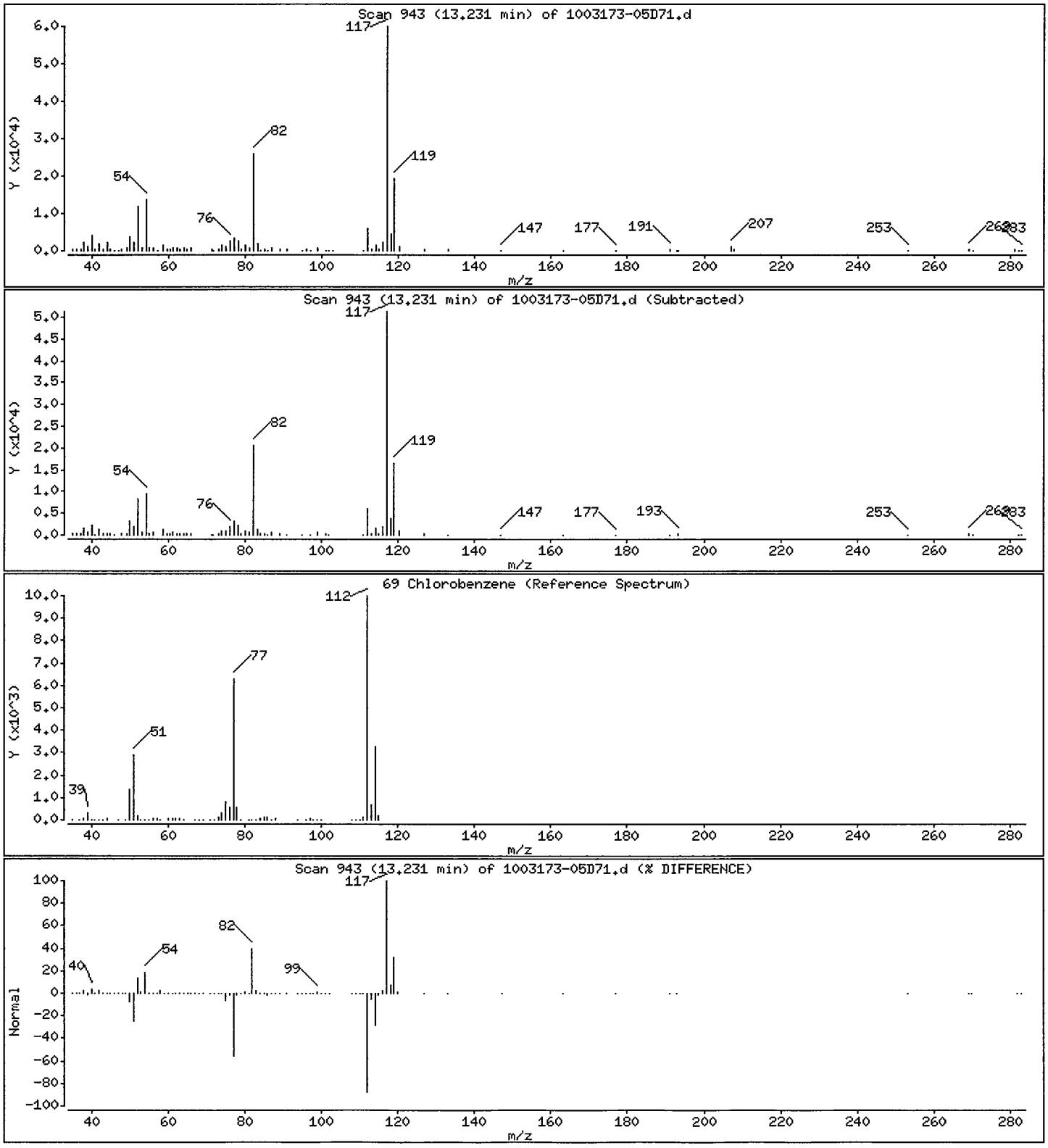
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

69 Chlorobenzene

Concentration: 0.22 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

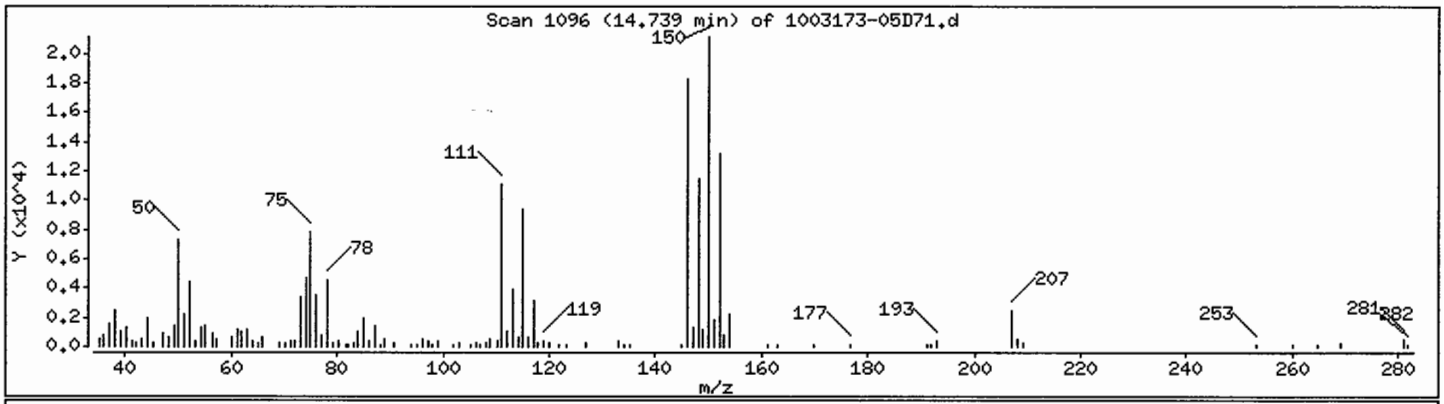
Operator: JAO

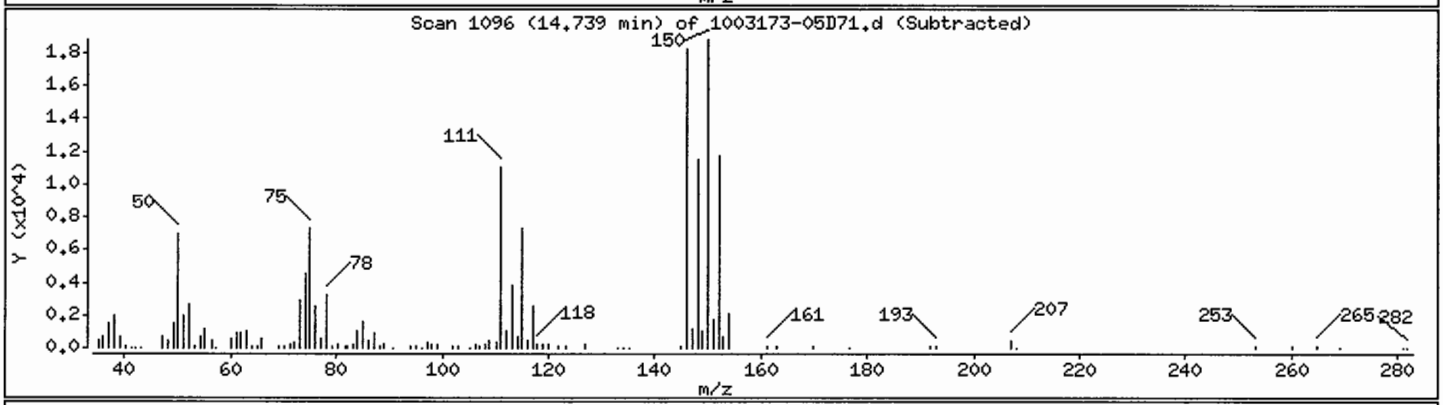
Column phase: SPB-624

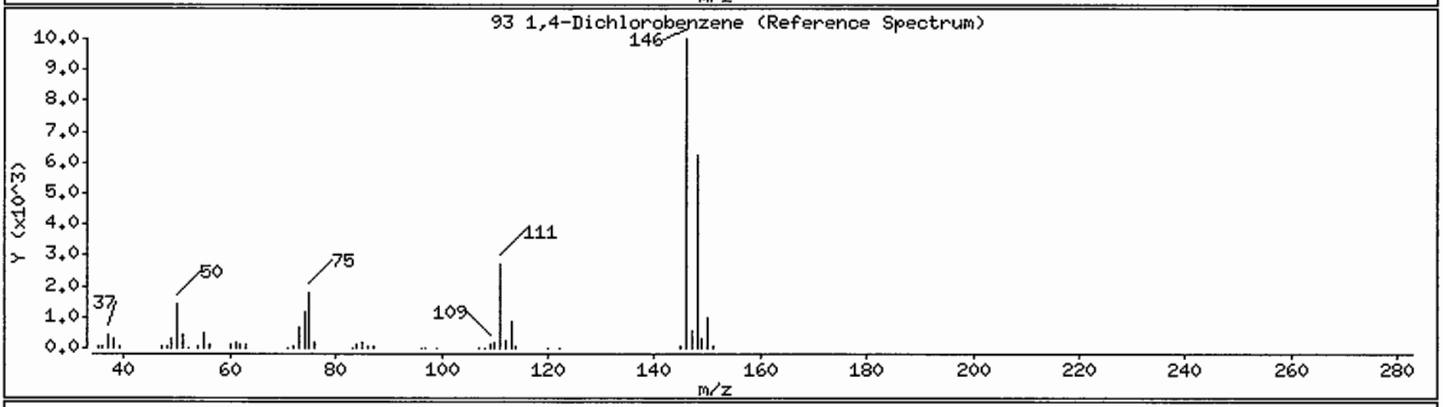
Column diameter: 0.32

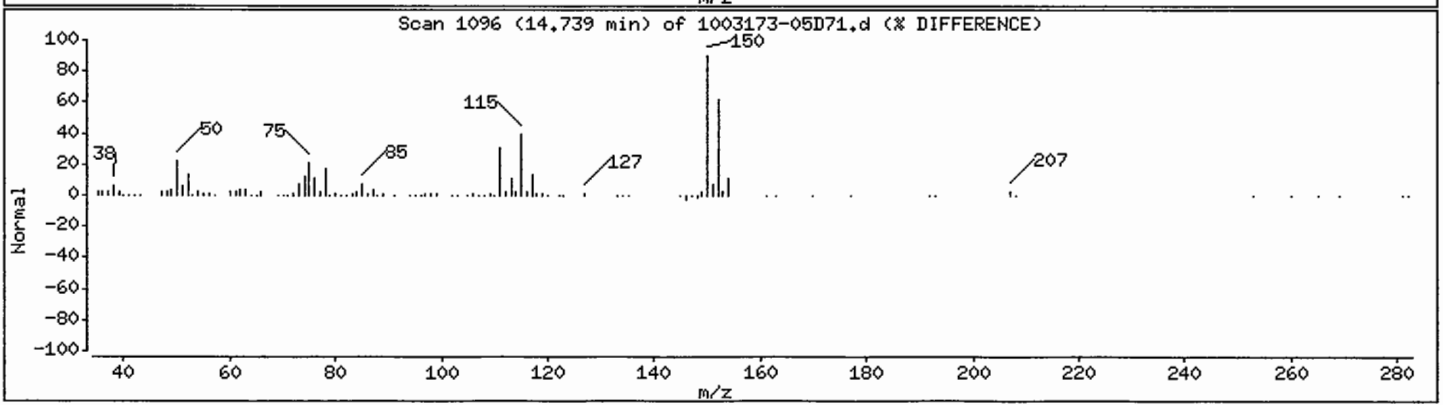
93 1,4-Dichlorobenzene

Concentration: 1.4 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

Client ID: MW-12DL

Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0

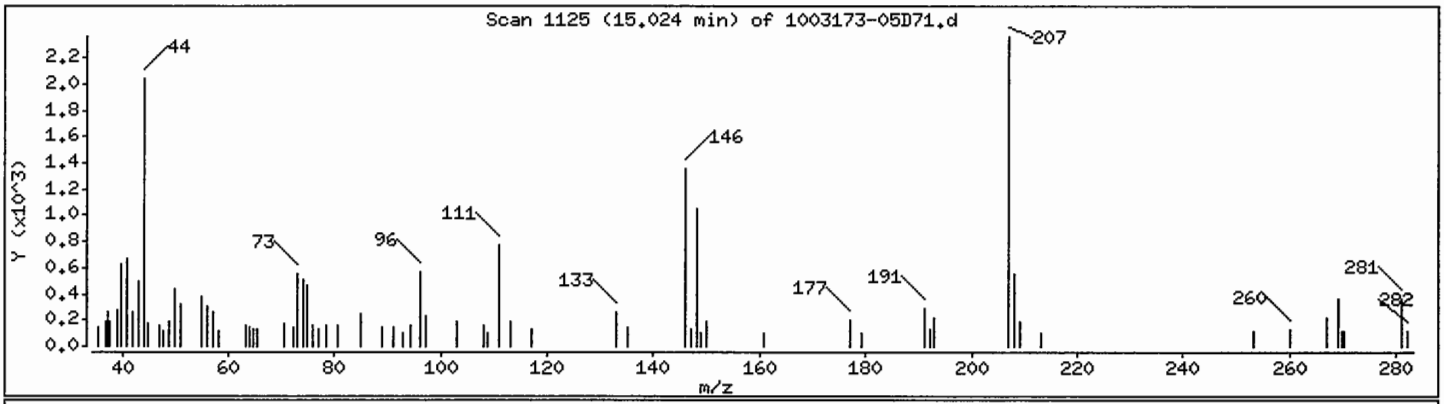
Operator: JAO

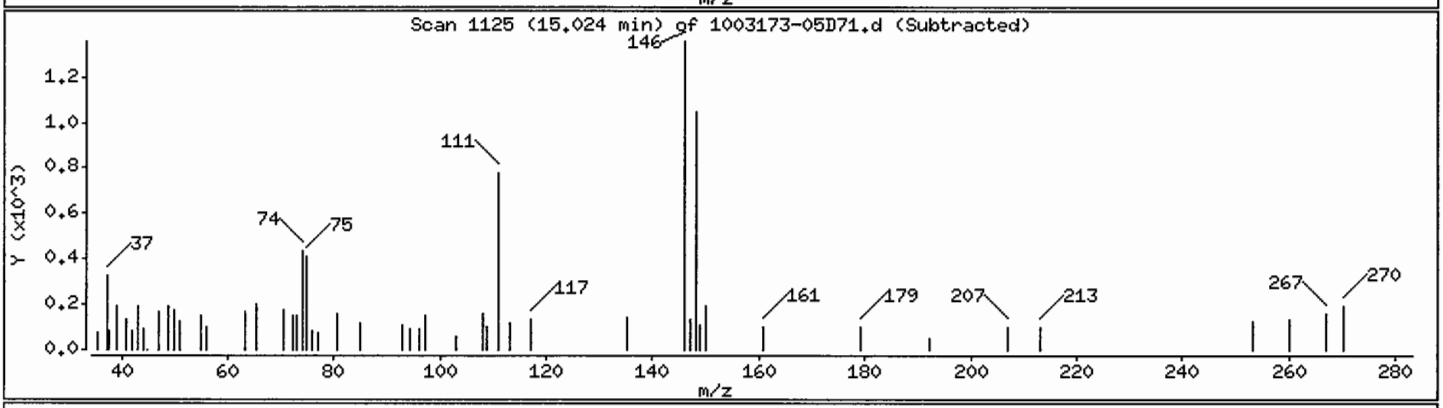
Column phase: SPB-624

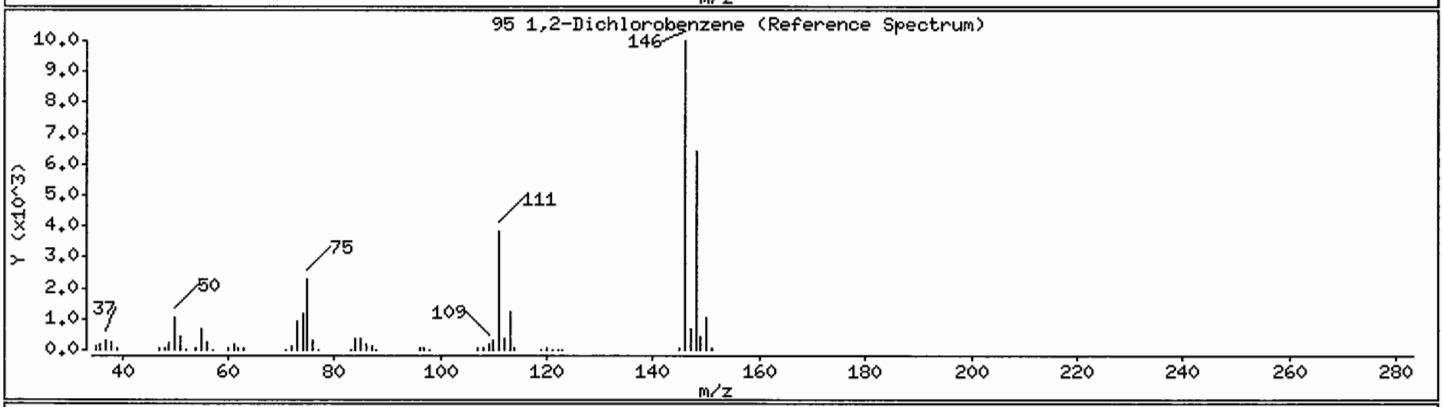
Column diameter: 0.32

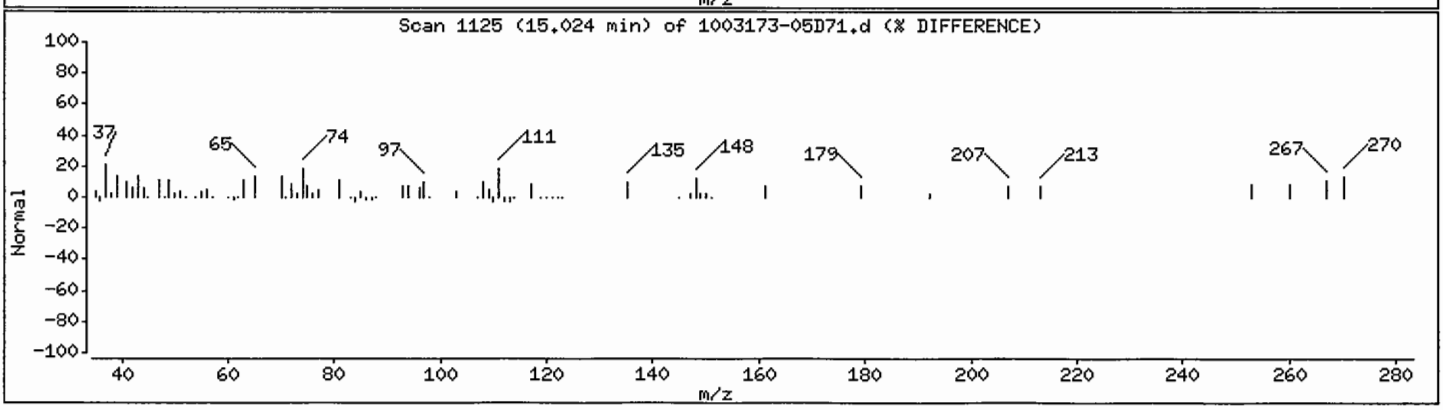
95 1,2-Dichlorobenzene

Concentration: 0.14 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

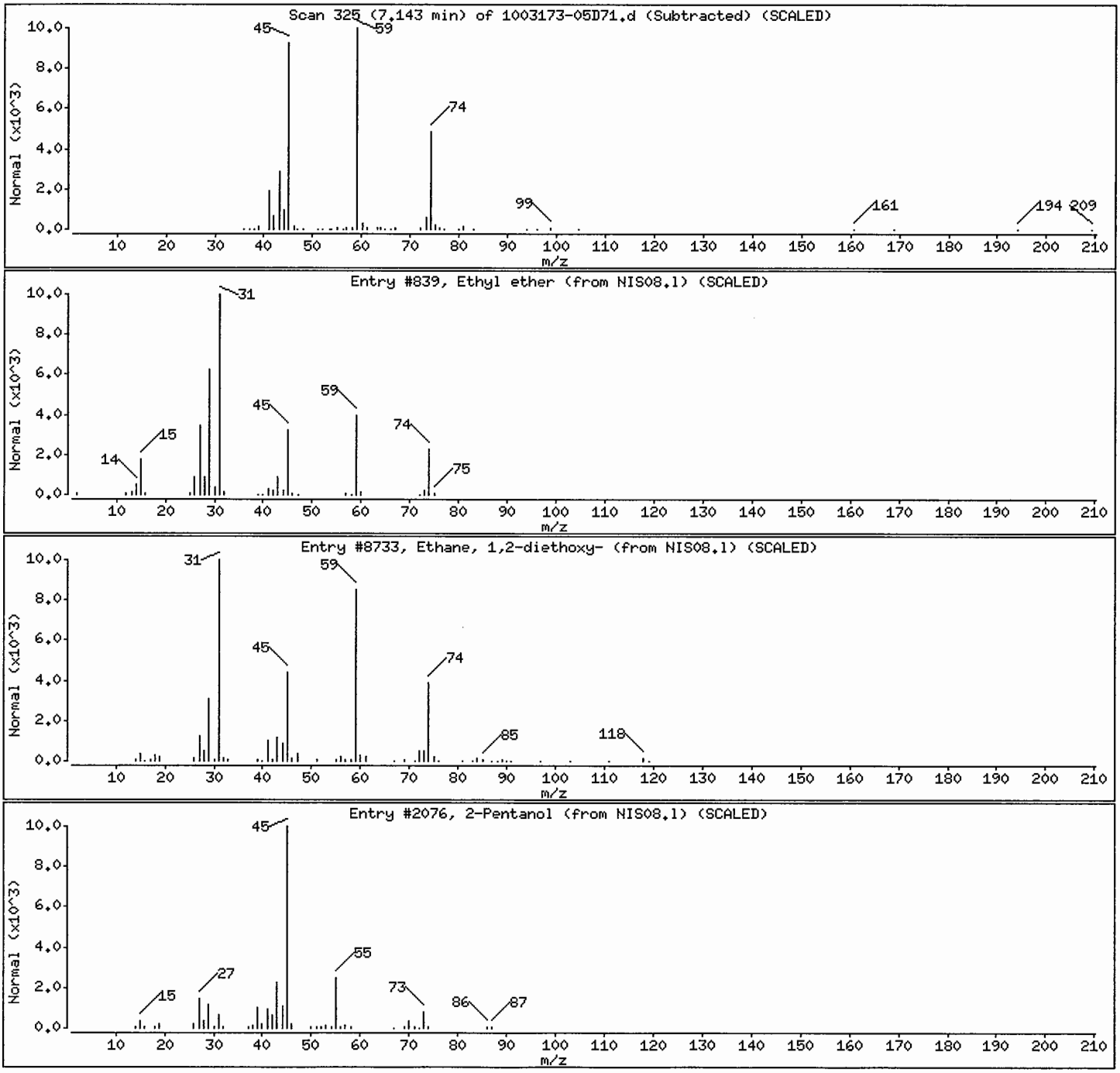
Client ID: MW-12DL Instrument: 5972hp71.i

Sample Info: 1003173-05DL:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl ether	60-29-7	NIS08.l	839	90	C4H10O	74
Ethane, 1,2-diethoxy-	629-14-1	NIS08.l	8733	50	C6H14O2	118
2-Pentanol	6032-29-7	NIS08.l	2076	12	C5H12O	88



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-05D71.d

Date : 31-MAR-2010 21:37

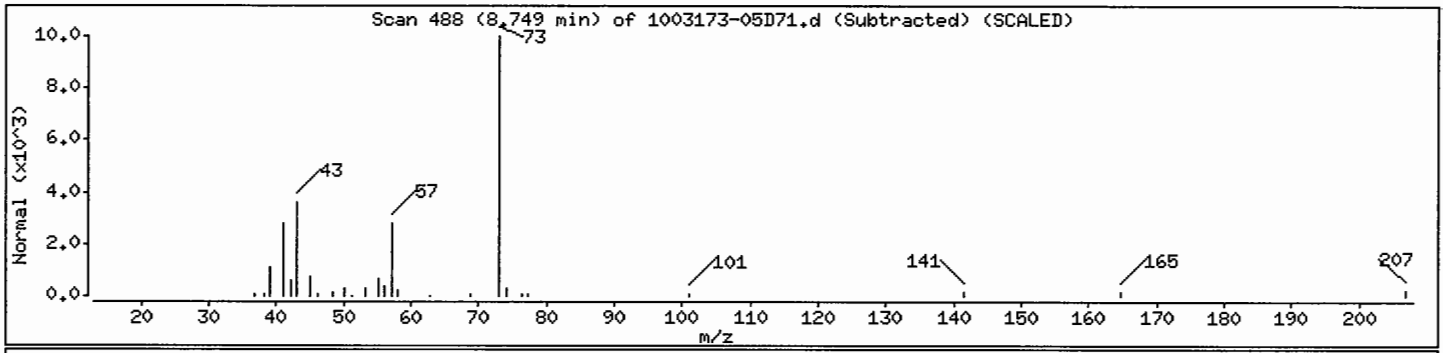
Client ID: MW-12DL Instrument: 5972hp71.i

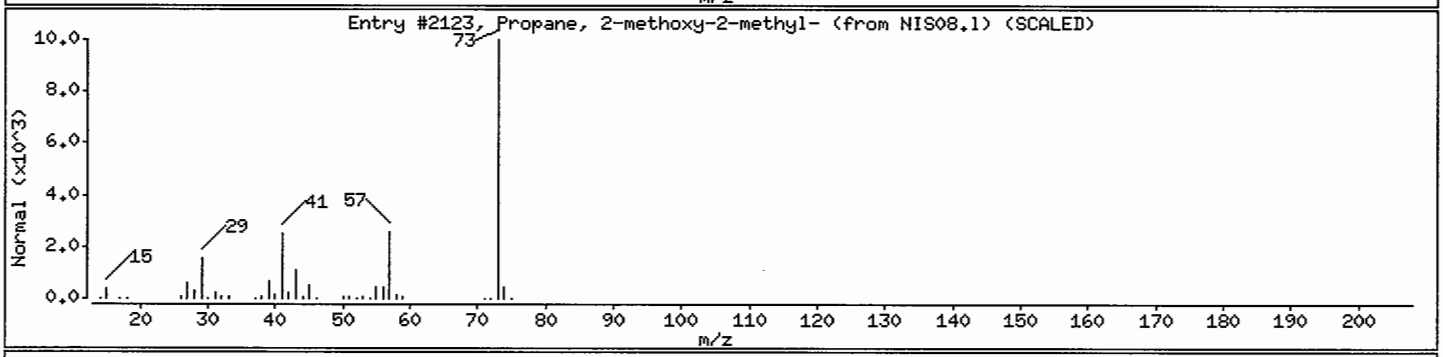
Sample Info: 1003173-05DL:JAO

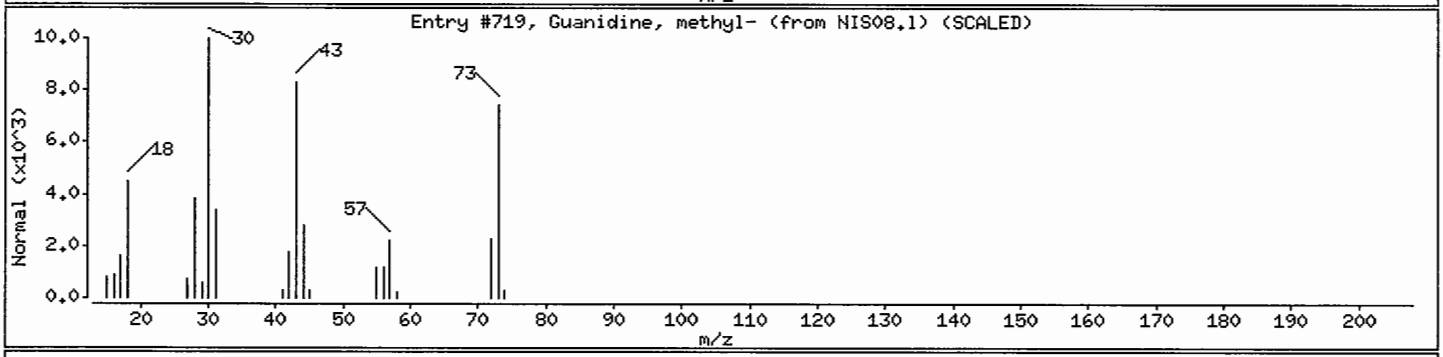
Purge Volume: 25.0 Operator: JAO

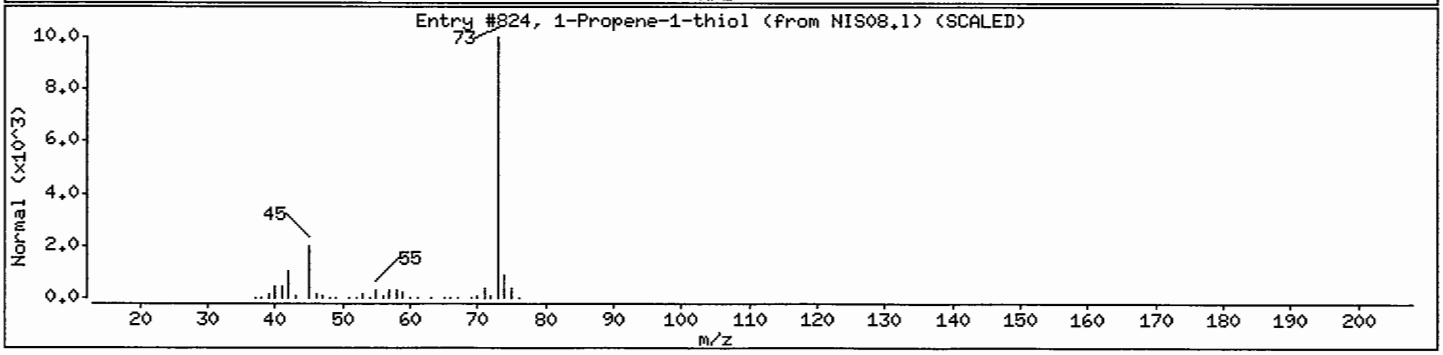
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2-methoxy-2-methyl-	1634-04-4	NIS08.l	2123	45	C5H12O	88
Guanidine, methyl-	471-29-4	NIS08.l	719	7	C2H7N3	73
1-Propene-1-thiol	925-89-3	NIS08.l	824	5	C3H6S	74









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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-06

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-06R71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.038	J
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	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	1.0	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.9	
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	0.059	J
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	0.43	J
78-87-5	1,2-Dichloropropane	0.50	U

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-06

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-06R71

Level: (low/med) LOW Date Received: 03/19/10

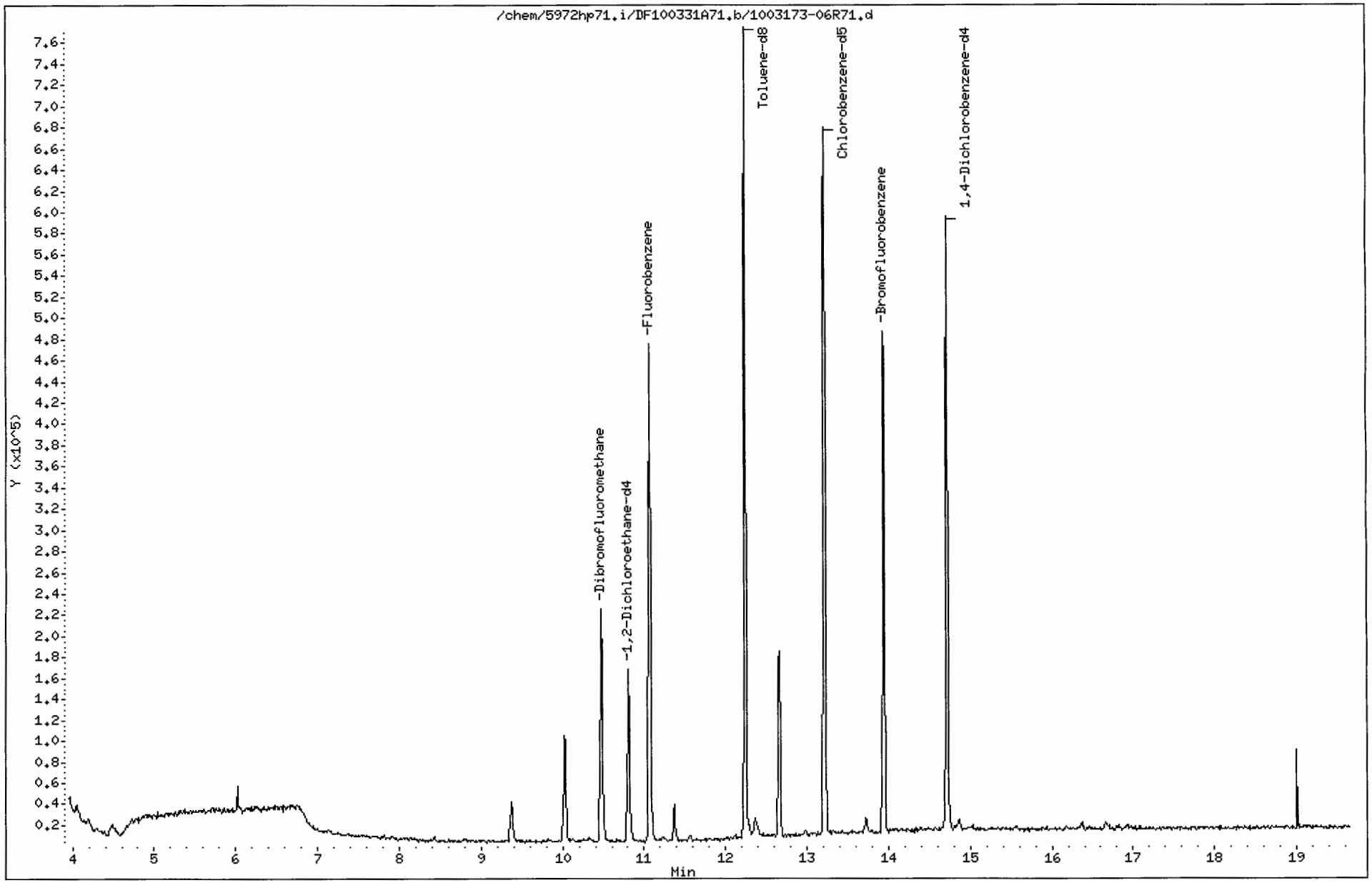
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.050	JB
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	1.5	
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	0.16	JB
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d
Date : 31-MAR-2010 21:07
Client ID: MW-17
Instrument: 5972hp71.i
Sample Info: 1003173-06:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d
Lab Smp Id: 1003173-06 Client Smp ID: MW-17
Inj Date : 31-MAR-2010 21:07
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-06:JAO
Misc Info : MW-17
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.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	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	11.069	11.069	(1.000)	394058	125.000	
* 2 Chlorobenzene-d5	117	13.217	13.216	(1.000)	344721	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.715	14.714	(1.000)	132600	125.000	
$ 4 Dibromofluoromethane	113	10.478	10.478	(0.947)	135304	127.182	5.1
$ 5 1,2-Dichloroethane-d4	65	10.813	10.812	(0.977)	107713	136.115	5.4
$ 6 Toluene-d8	98	12.242	12.241	(0.926)	402136	107.781	4.3
$ 7 Bromofluorobenzene	95	13.936	13.936	(0.947)	182883	120.813	4.8
8 Dichlorodifluoromethane	85	4.143	4.143	(0.374)	1344	0.95547	0.038(a)
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.					
18 Acetone	43	7.690	7.689	(0.695)	4134	42.4532	1.7(a)
19 Iodomethane	142	Compound Not Detected.					

MH 4.7.10

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	Compound Not Detected.					
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	9.375	9.374	(0.847)	41349	25.4195	1.0
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	10.025	10.024	(0.906)	42550	47.5523	1.9
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	10.320	10.320	(0.932)	2204	1.48071	0.059(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	11.375	11.374	(1.028)	8133	10.7173	0.43(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	12.291	12.290	(0.930)	2825	1.24560	0.050(a)
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	12.665	12.665	(0.958)	33359	38.1333	1.5
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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	16.655	16.665	(1.132)	5252	4.00006	0.16(a)
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

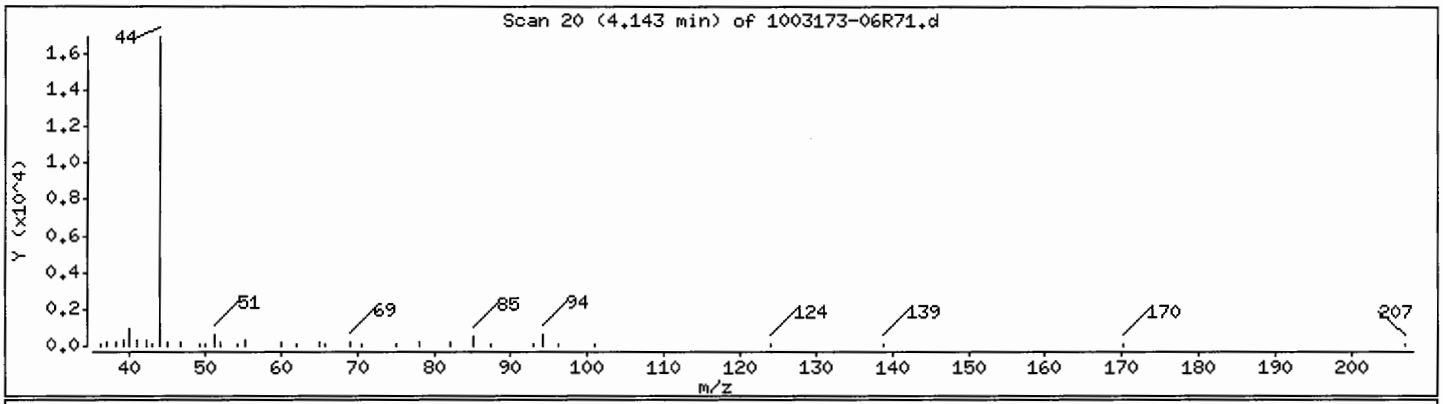
Client ID: MW-17 Instrument: 5972hp71.i

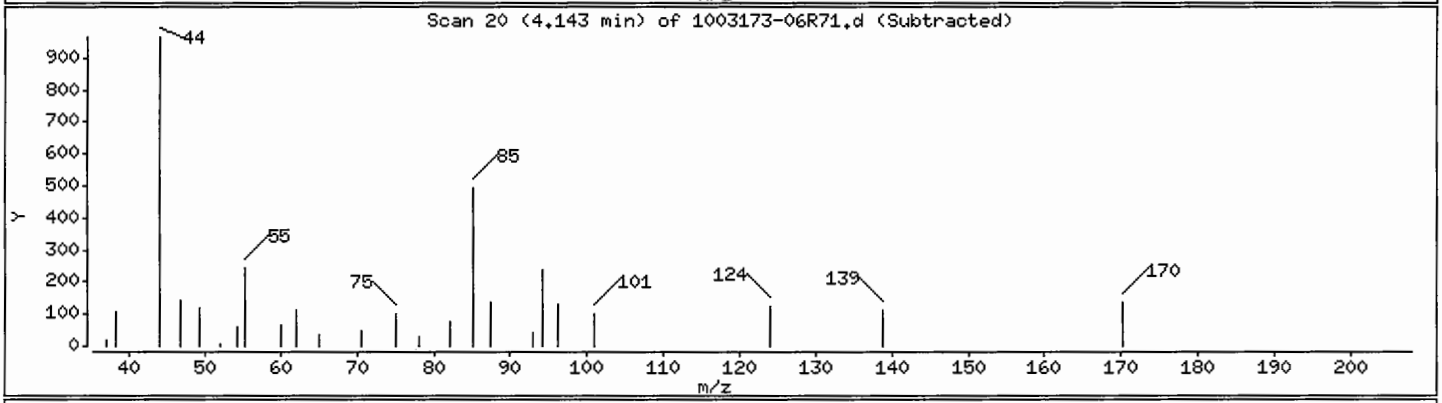
Sample Info: 1003173-06:JAO

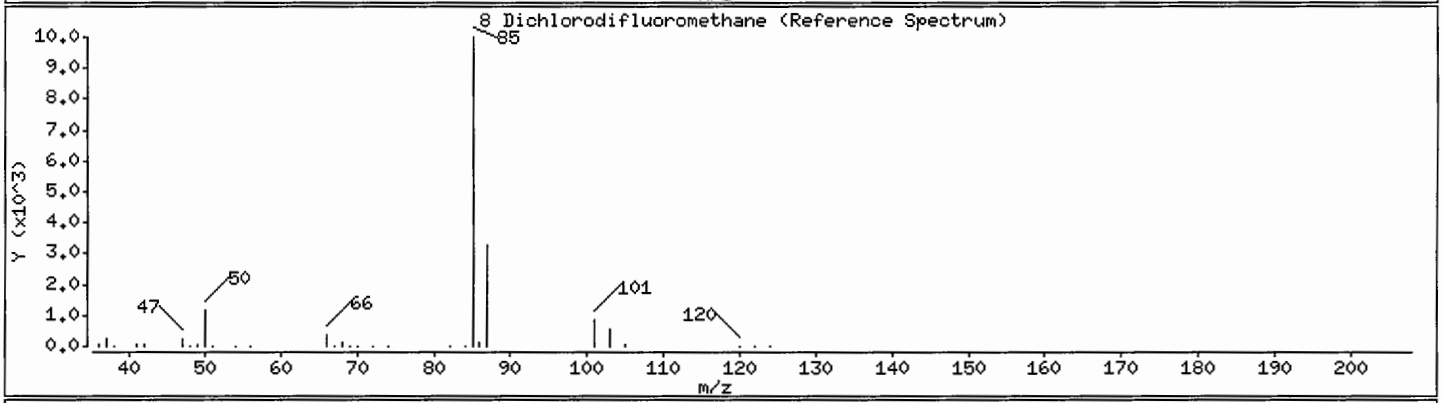
Purge Volume: 25.0 Operator: JAO

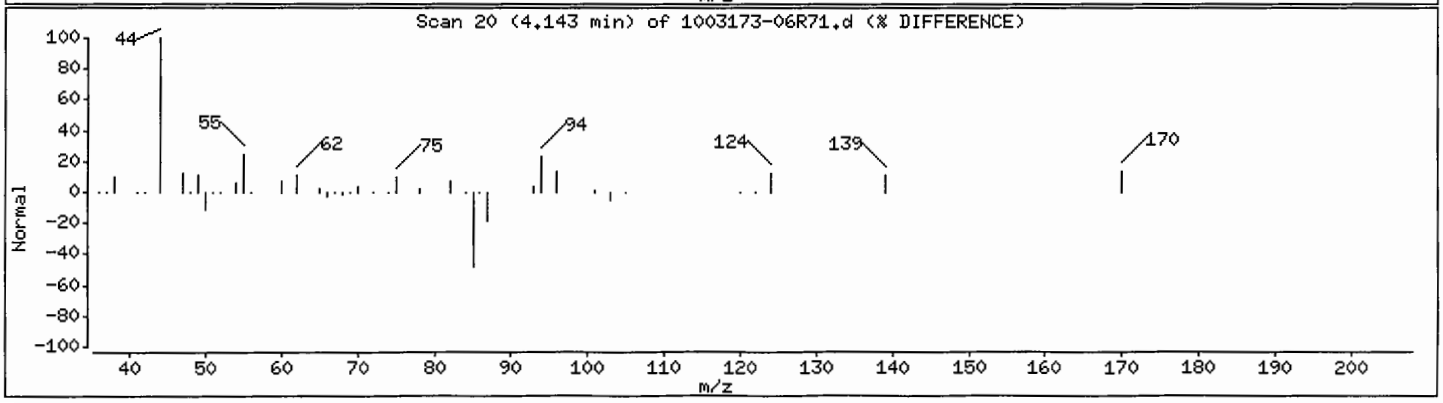
Column phase: SPB-624 Column diameter: 0.32

8 Dichlorodifluoromethane Concentration: 0.038 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

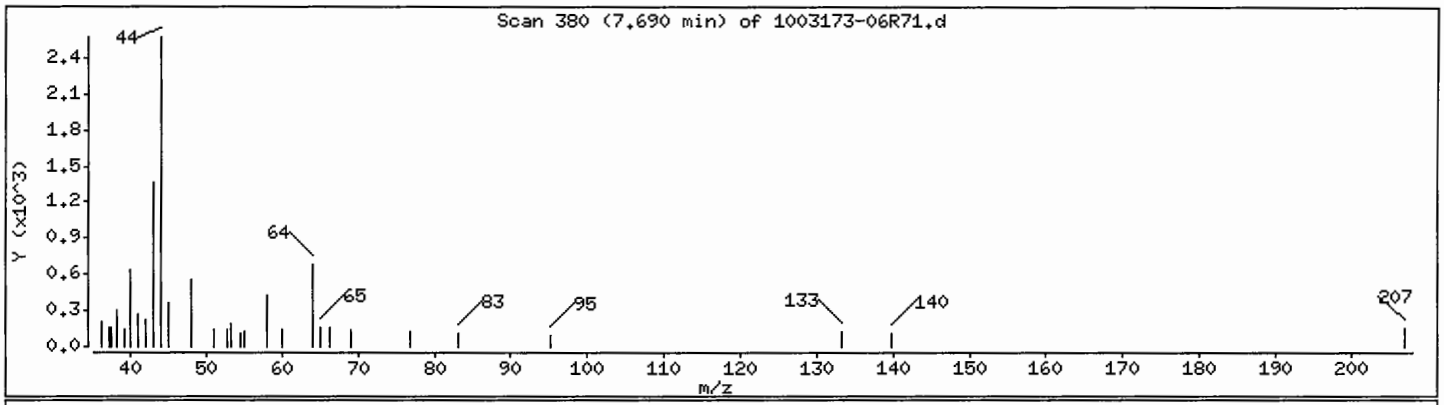
Client ID: MW-17 Instrument: 5972hp71.i

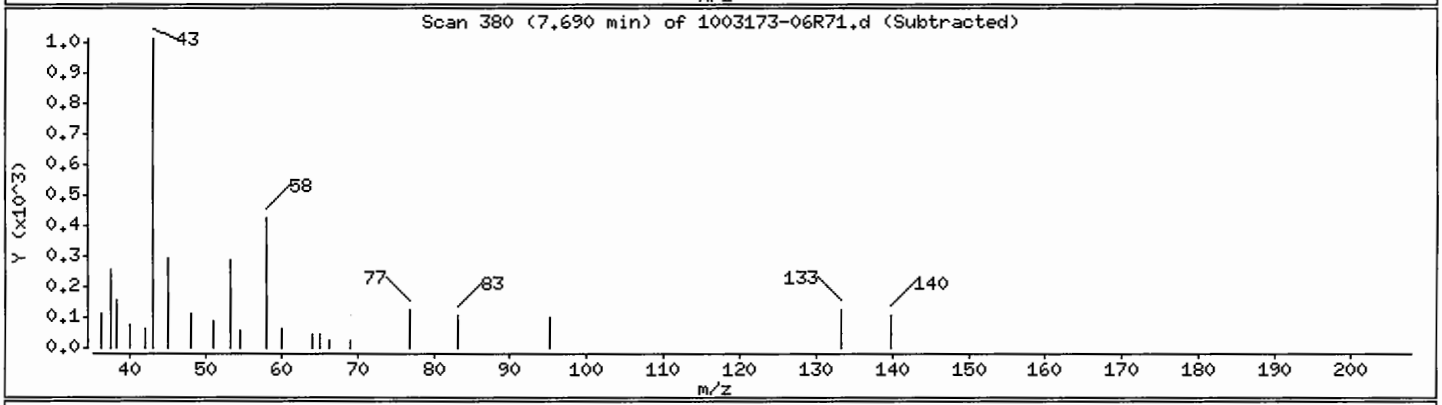
Sample Info: 1003173-06:JA0

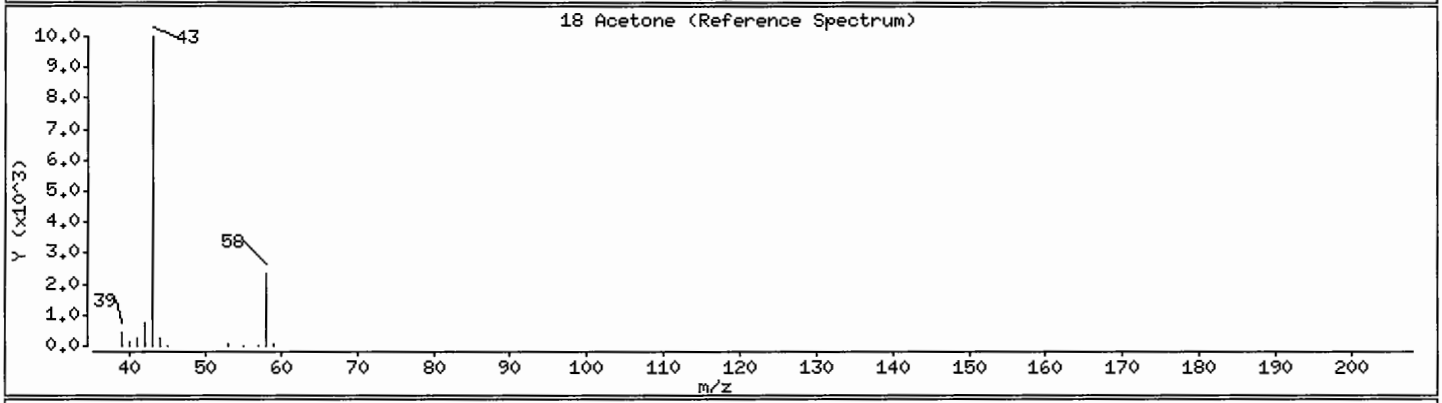
Purge Volume: 25.0 Operator: JA0

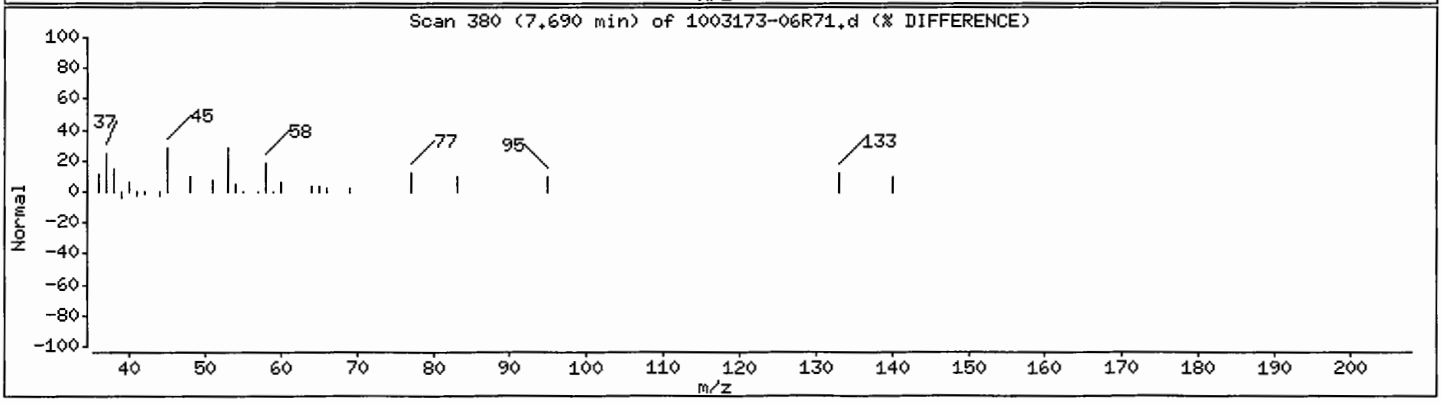
Column phase: SPB-624 Column diameter: 0.32

18 Acetone Concentration: 1.7 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

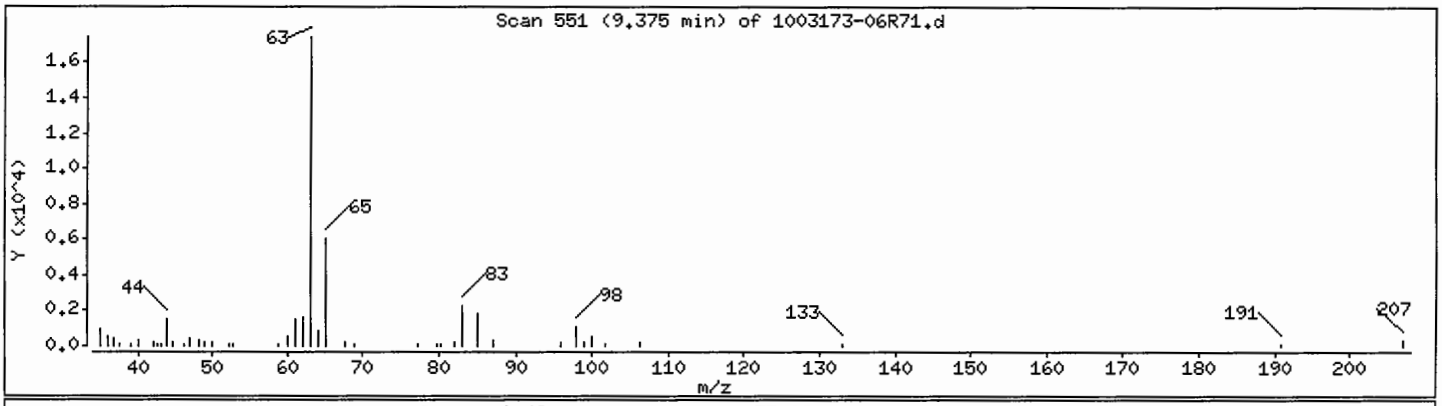
Client ID: MW-17 Instrument: 5972hp71.i

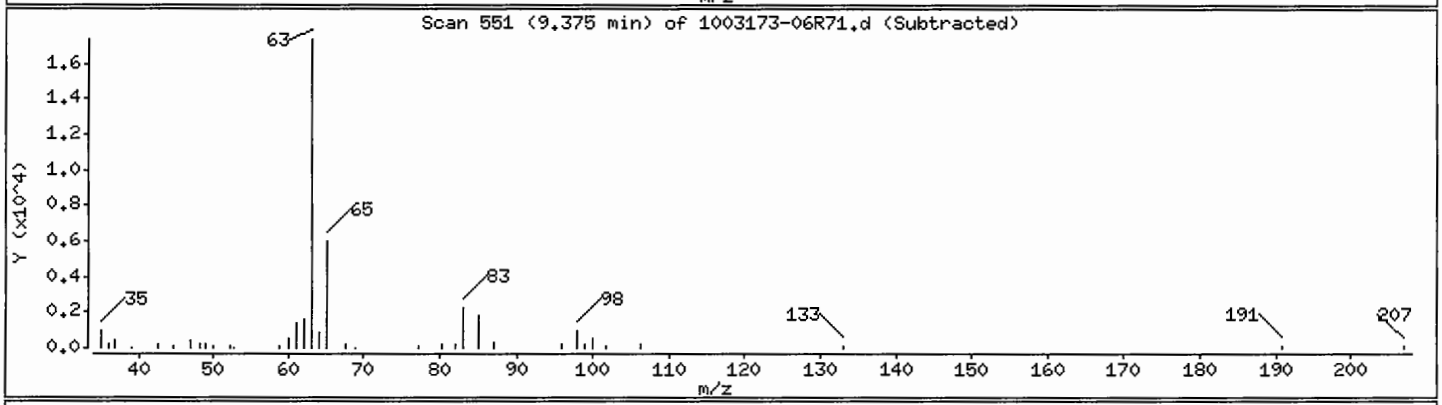
Sample Info: 1003173-06;JAO

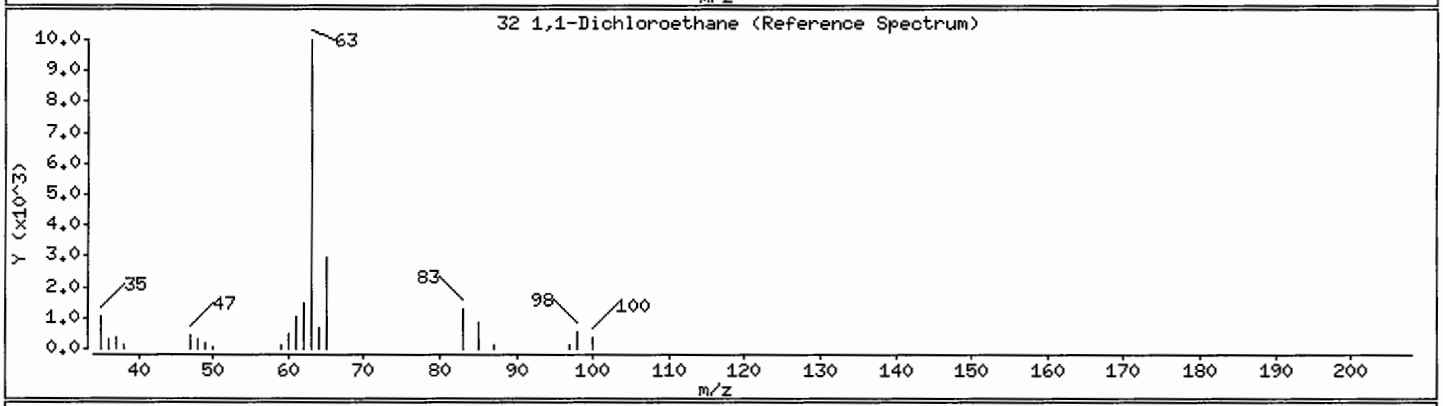
Purge Volume: 25.0 Operator: JAO

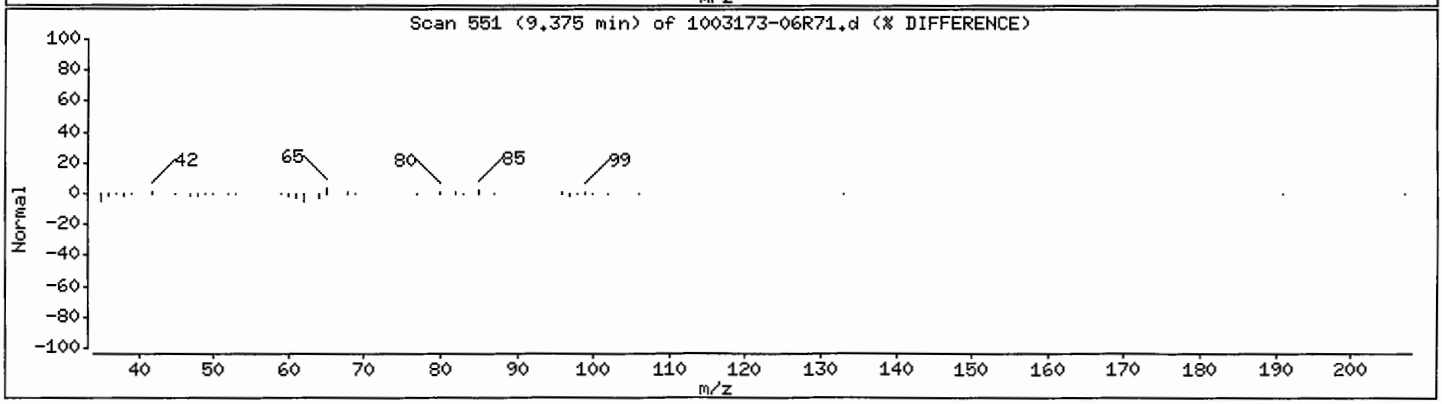
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 1.0 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

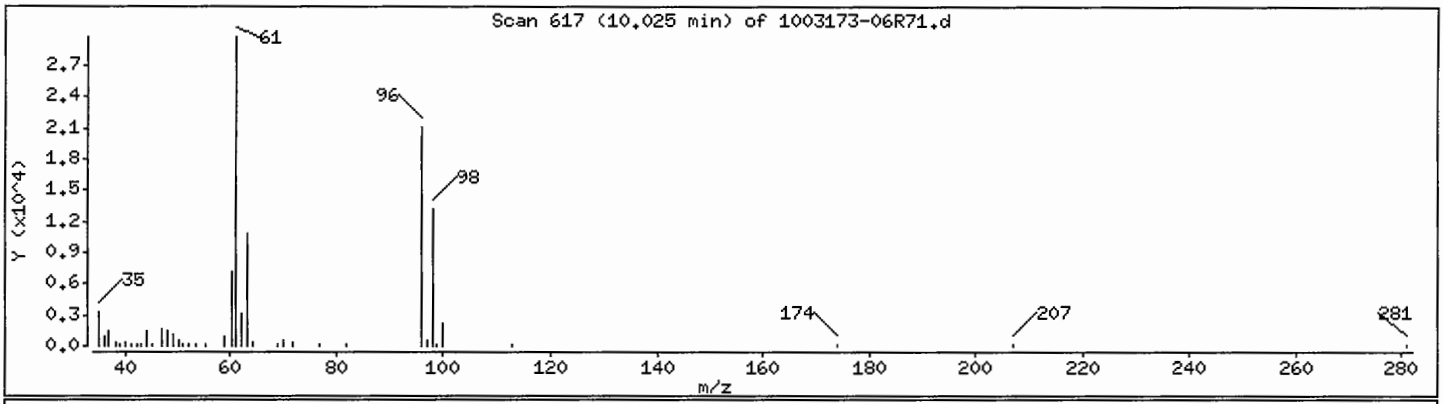
Client ID: MW-17 Instrument: 5972hp71.i

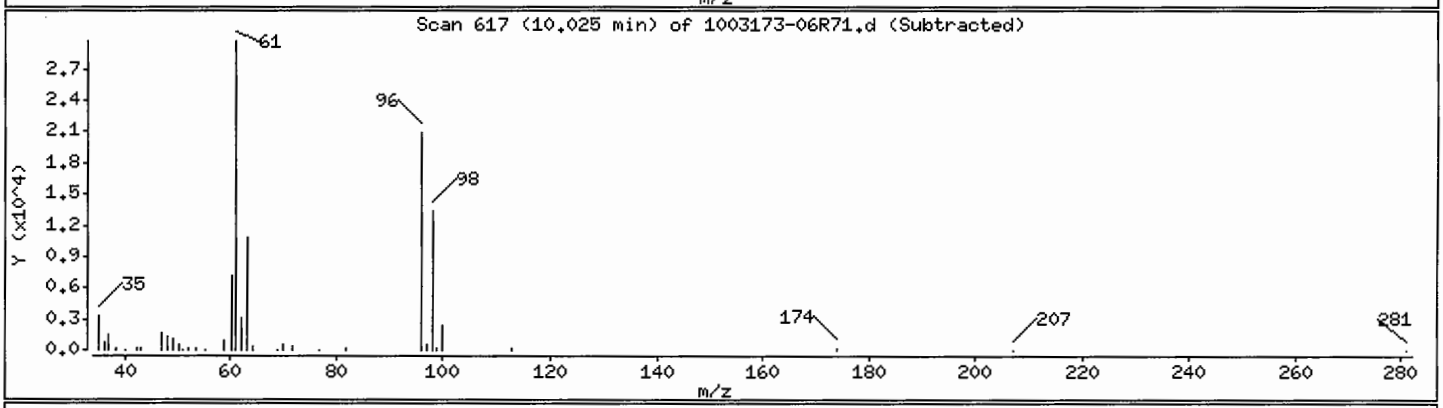
Sample Info: 1003173-06:JAO

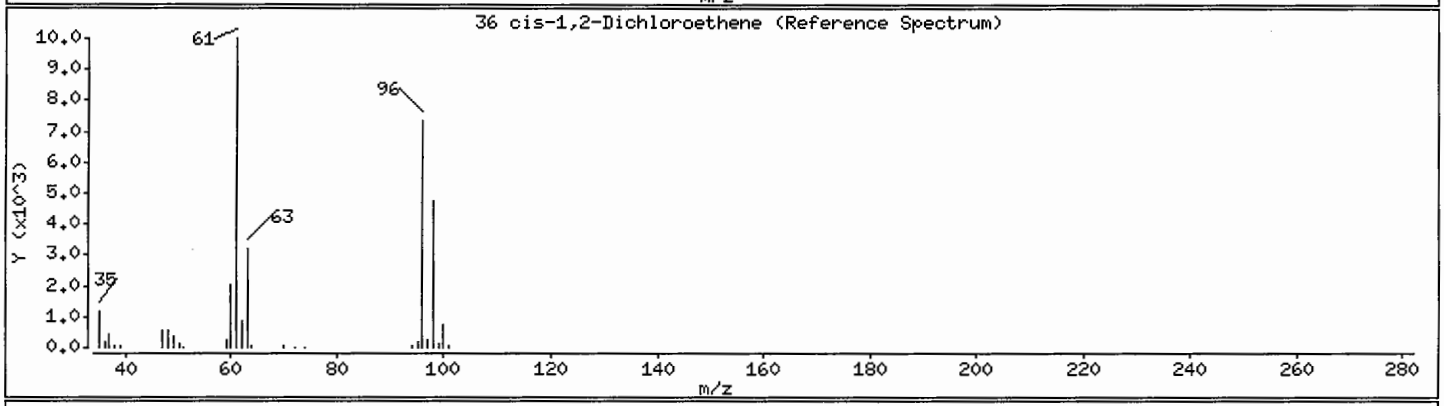
Purge Volume: 25.0 Operator: JAO

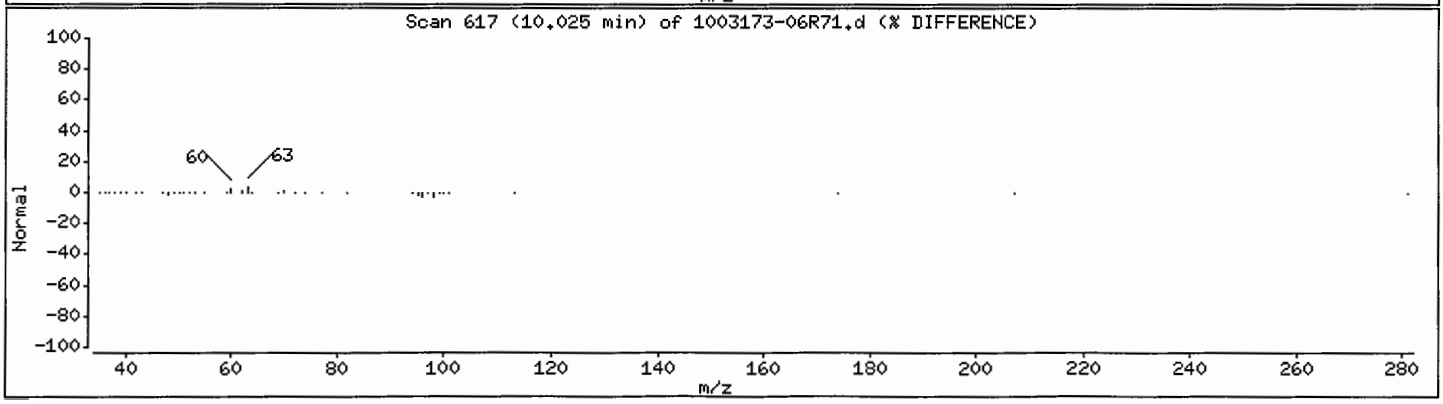
Column phase: SPB-624 Column diameter: 0.32

36 cis-1,2-Dichloroethene Concentration: 1.9 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

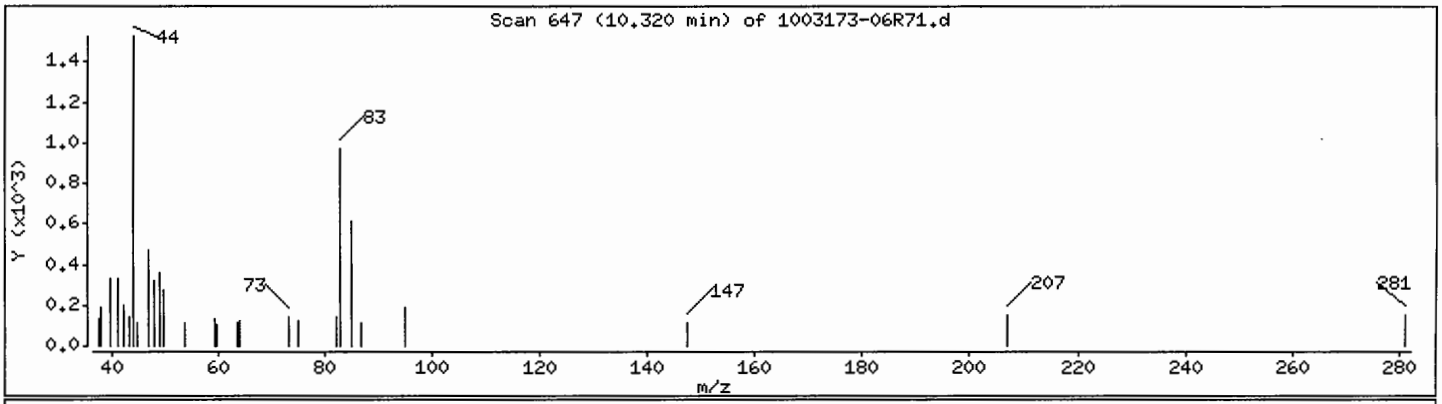
Client ID: MW-17 Instrument: 5972hp71.i

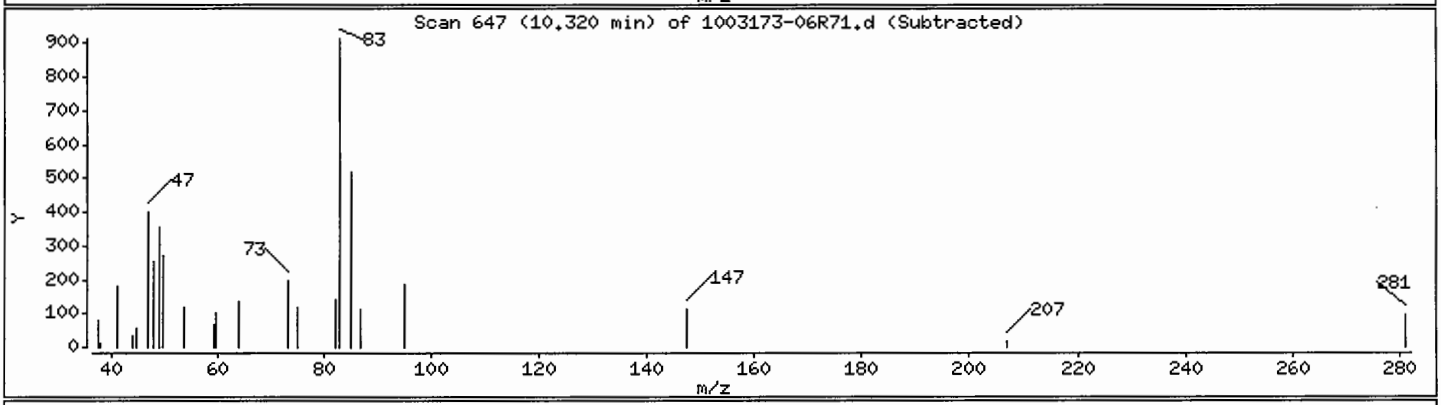
Sample Info: 1003173-06:JAO

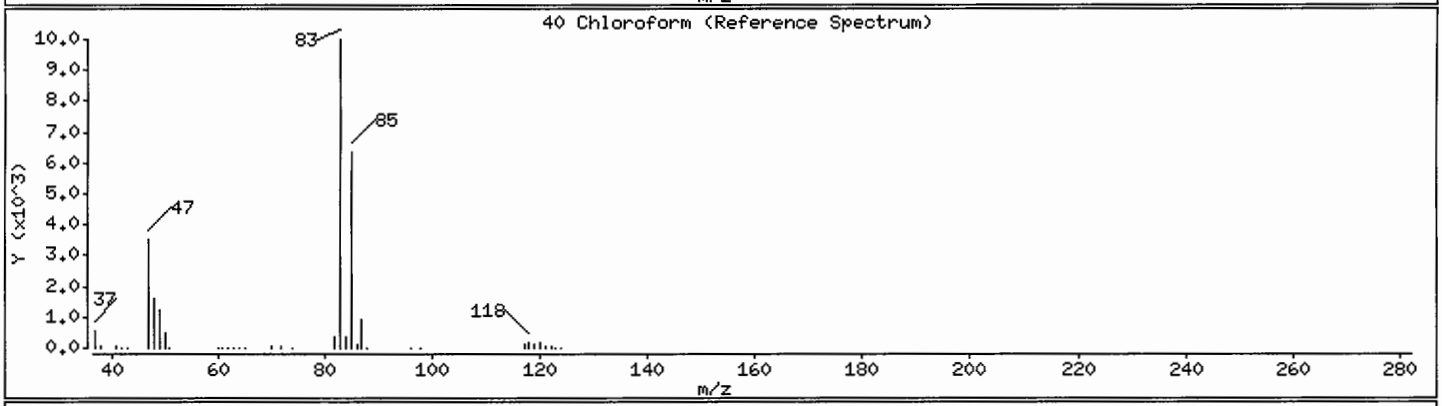
Purge Volume: 25.0 Operator: JAO

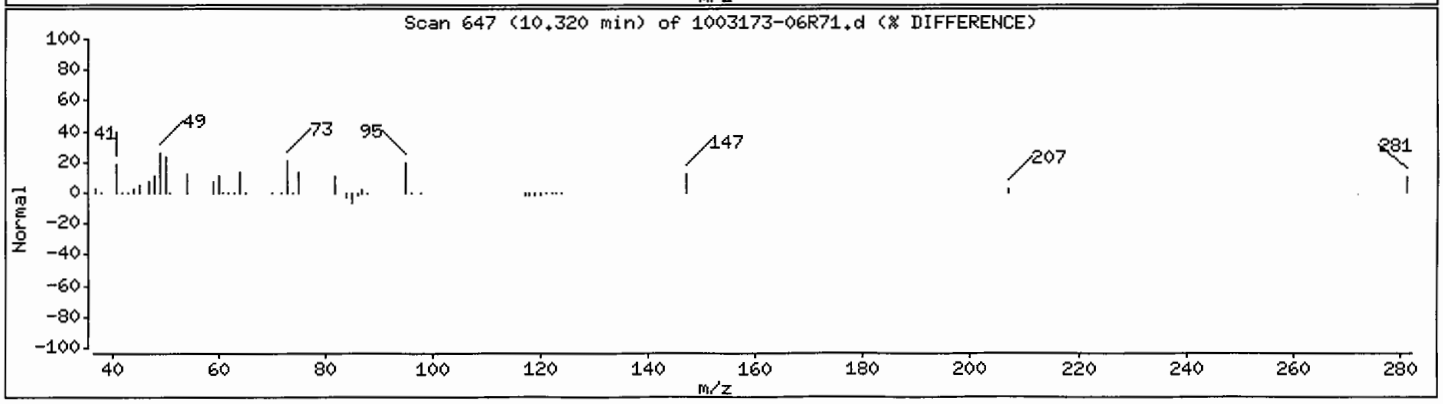
Column phase: SPB-624 Column diameter: 0.32

40 Chloroform Concentration: 0.059 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

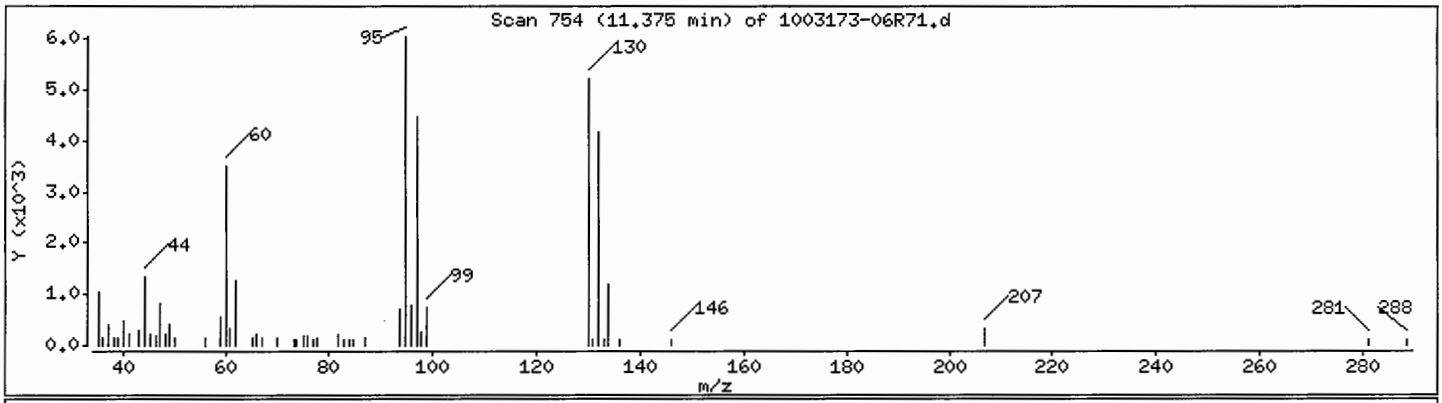
Client ID: MW-17 Instrument: 5972hp71.i

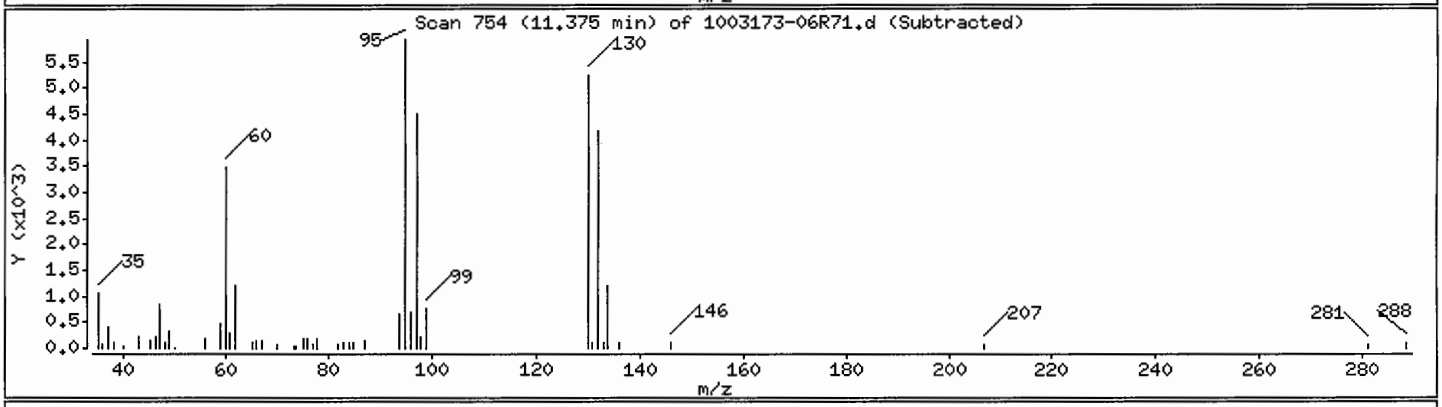
Sample Info: 1003173-06:JAO

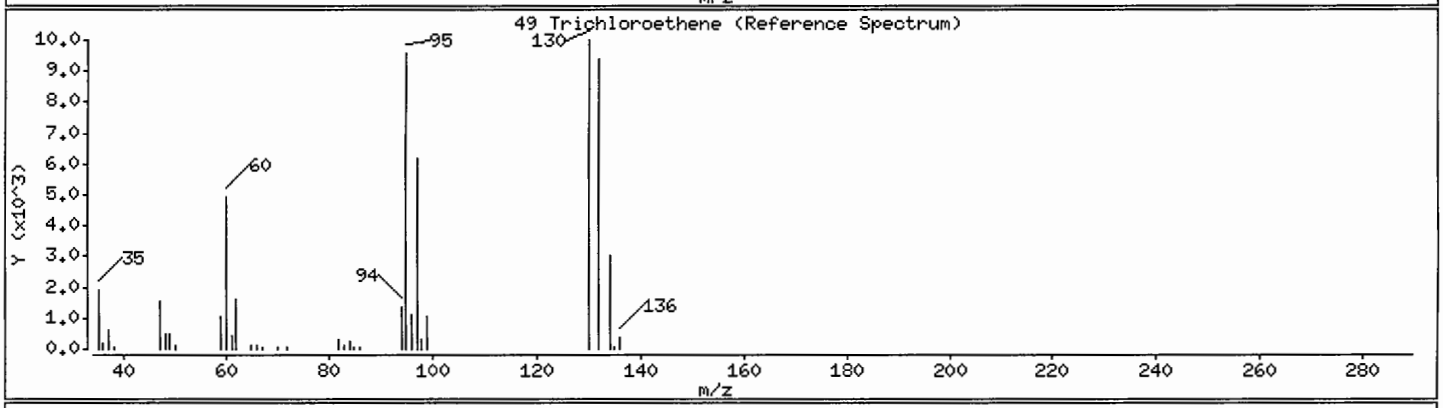
Purge Volume: 25.0 Operator: JAO

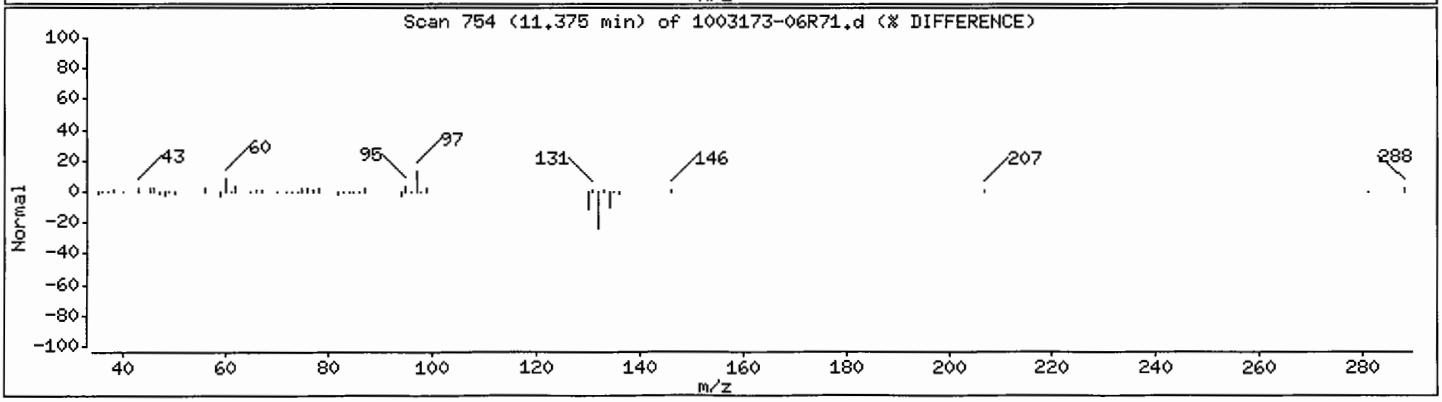
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 0.43 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

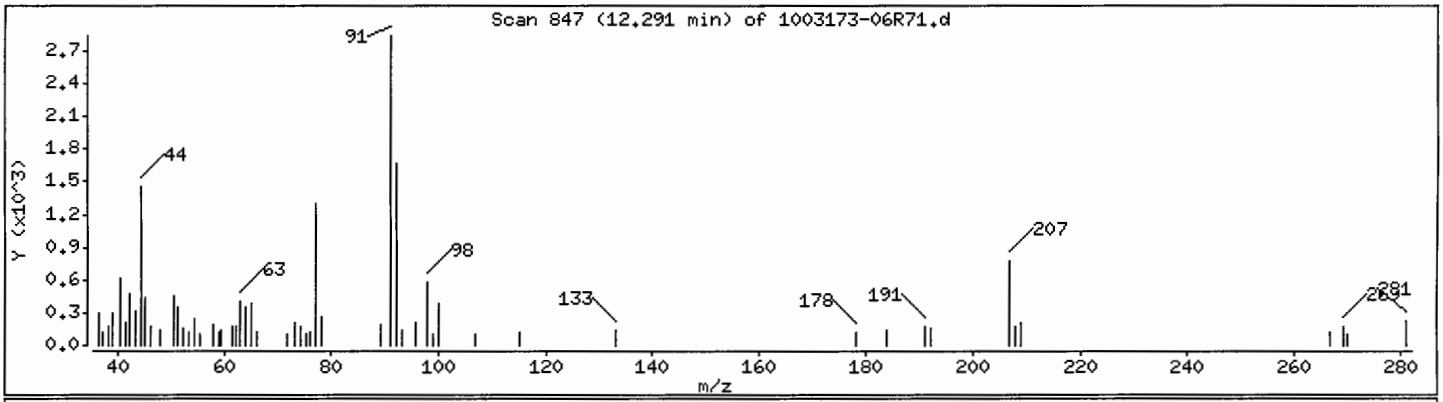
Client ID: MW-17 Instrument: 5972hp71.i

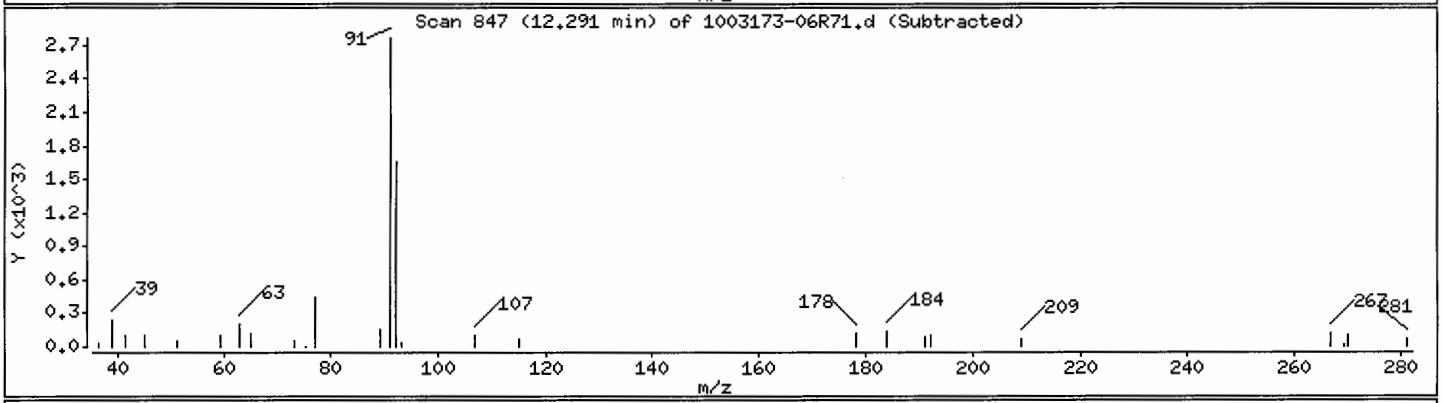
Sample Info: 1003173-06:JAO

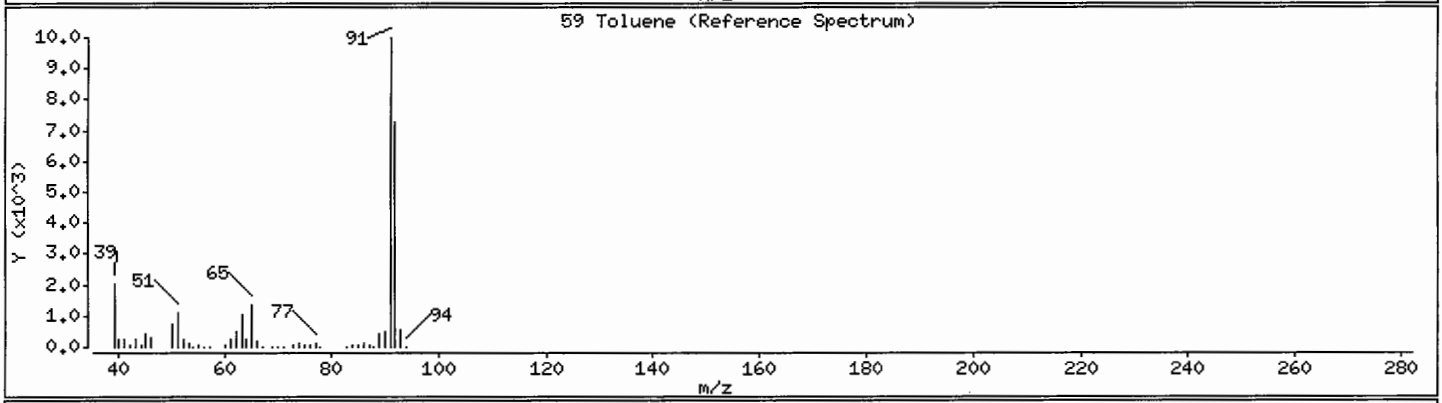
Purge Volume: 25.0 Operator: JAO

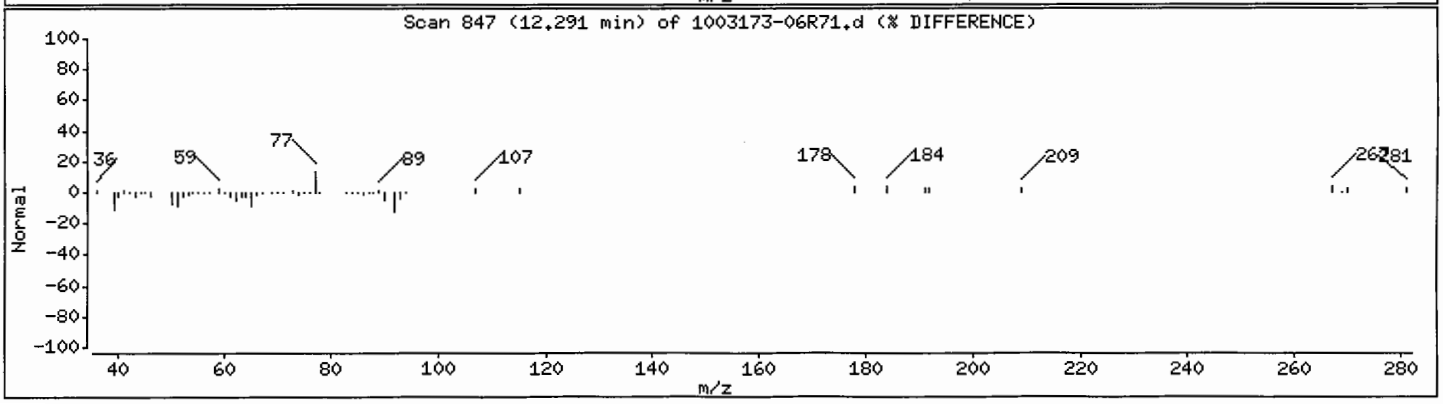
Column phase: SPB-624 Column diameter: 0.32

59 Toluene Concentration: 0.050 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

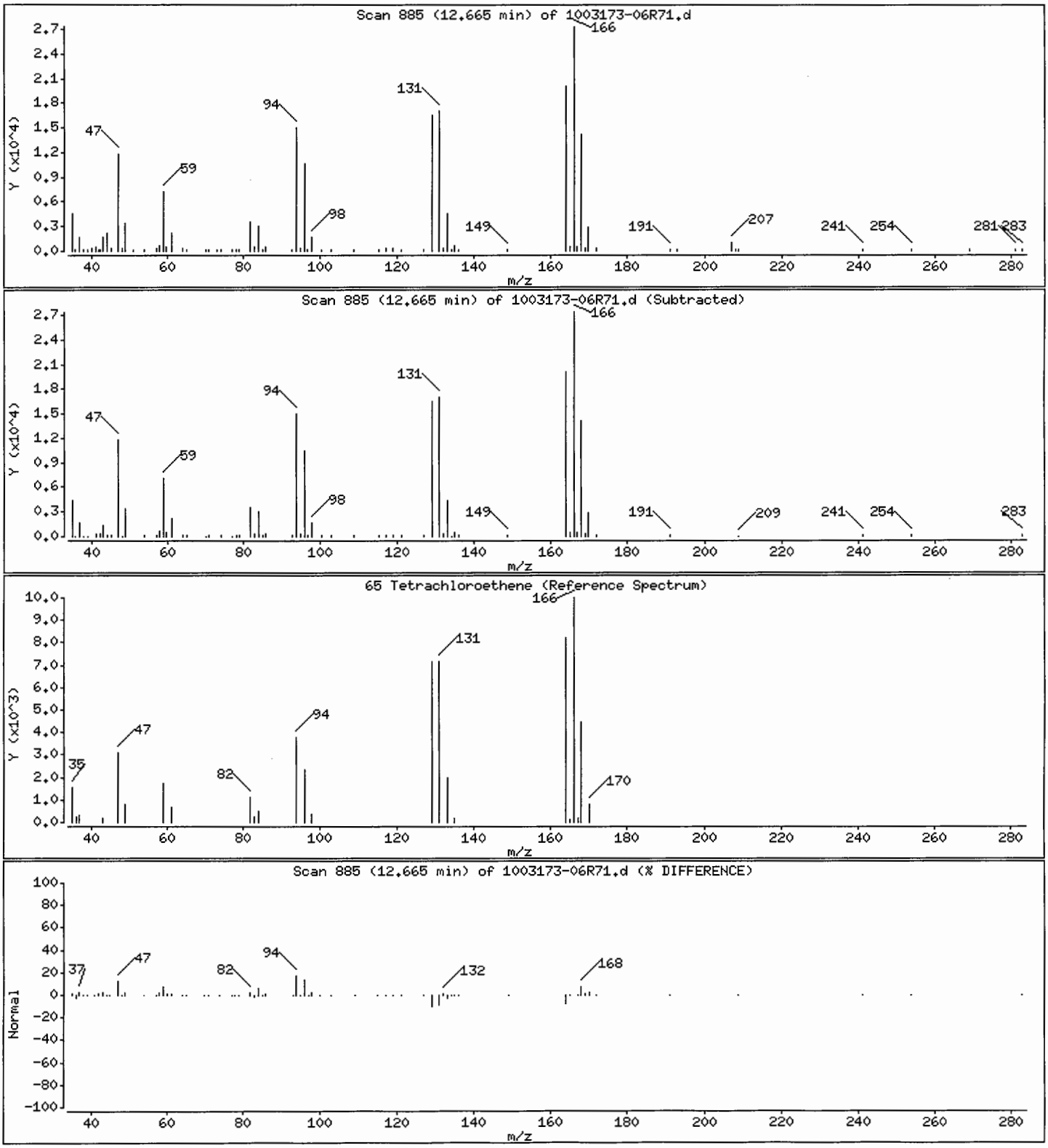
Client ID: MW-17 Instrument: 5972hp71.i

Sample Info: 1003173-06;JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

65 Tetrachloroethene Concentration: 1.5 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d

Date : 31-MAR-2010 21:07

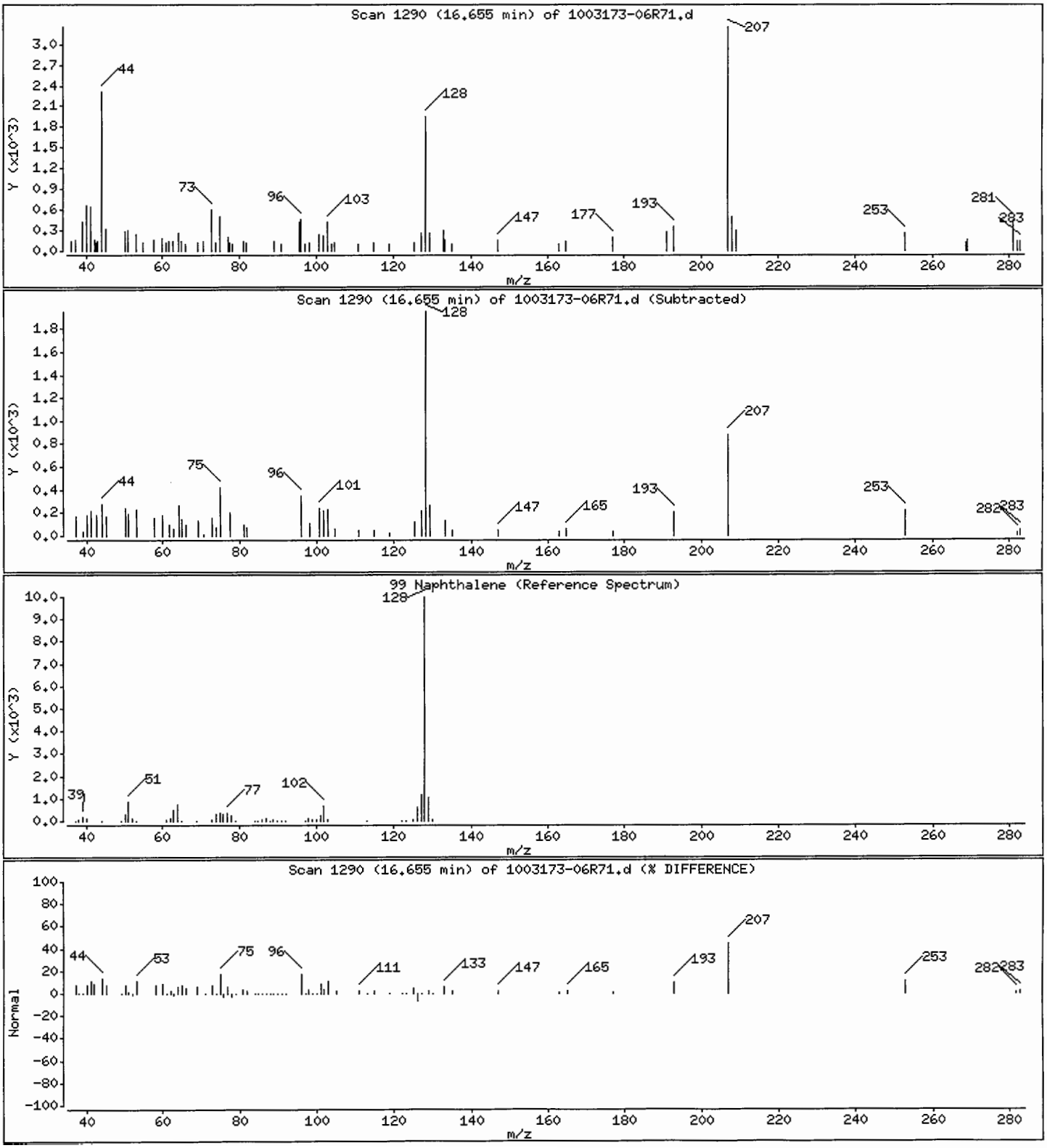
Client ID: MW-17 Instrument: 5972hp71.i

Sample Info: 1003173-06:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

99 Naphthalene Concentration: 0.16 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-06R71.d
Lab Smp Id: 1003173-06 Client Smp ID: MW-17
Inj Date : 31-MAR-2010 21:07
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-06:JAO
Misc Info : MW-17
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0271

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.55	
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	86	E
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	1.3	JB
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	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	51	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	0.26	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	0.059	J
71-55-6	1,1,1-Trichloroethane	330	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	0.54	
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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0271

Level: (low/med) LOW Date Received: 03/19/10

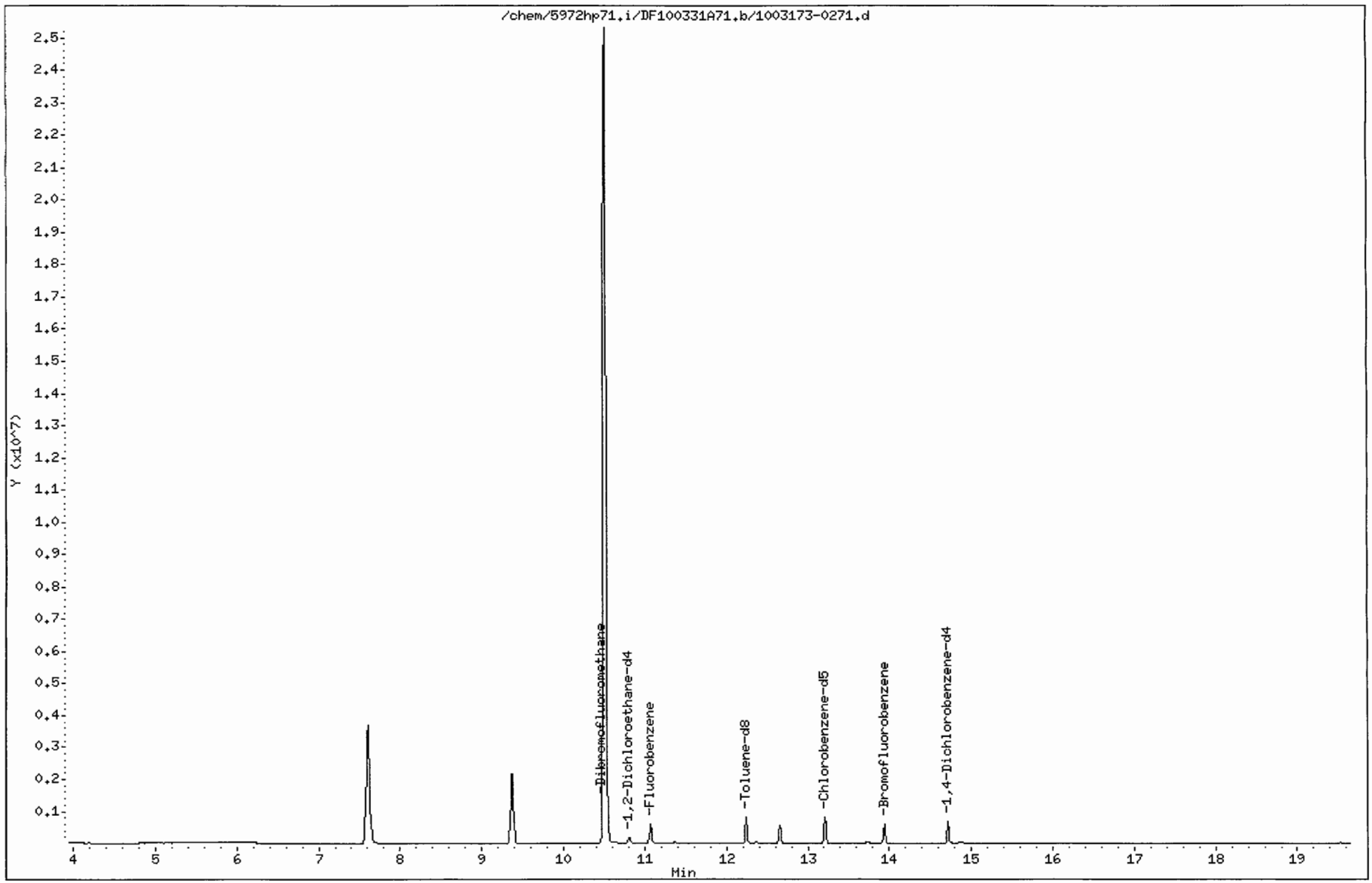
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.054	JB
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.092	J
97-63-2	Ethylmethacrylate	5.0	U
127-18-4	Tetrachloroethene	4.8	
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	0.50	U
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d
Date : 31-MAR-2010 17:10
Client ID: MW-2 Instrument: 5972hp71.i
Sample Info: 1003173-02;JAO
Purge Volume: 25.0 Operator: JAO
Column phase: SPB-624 Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0271.d
Lab Smp Id: 1003173-02 Client Smp ID: MW-2
Inj Date : 31-MAR-2010 17:10
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-02:JAO
Misc Info : MW-2
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.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	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	11.072	11.069	(1.000)	485388	125.000	
* 2 Chlorobenzene-d5	117	13.210	13.216	(1.000)	396407	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.717	14.714	(1.000)	155601	125.000	
$ 4 Dibromofluoromethane	113	10.471	10.478	(0.946)	148180	113.077	4.5
$ 5 1,2-Dichloroethane-d4	65	10.806	10.812	(0.976)	115546	118.157	4.7
$ 6 Toluene-d8	98	12.245	12.241	(0.927)	494866	115.341	4.6
$ 7 Bromofluorobenzene	95	13.939	13.936	(0.947)	201203	113.268	4.5
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	4.915	4.921	(0.444)	14413	13.6876	0.55
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	7.604	7.601	(0.687)	2044769	2151.27	86(A)
18 Acetone	43	7.703	7.689	(0.696)	3780	31.5140	1.3(a)
19 Iodomethane	142	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	8.422	8.428	(0.761)	7504	9.43301	0.38(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	9.368	9.374	(0.846)	2564144	1279.72	51(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	10.028	10.024	(0.906)	7080	6.42357	0.26(a)
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	10.314	10.320	(0.931)	2690	1.46730	0.059(aM)
42 1,1,1-Trichloroethane	97	10.511	10.507	(0.949)	18256914	8340.49	330(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	11.368	11.374	(1.027)	12520	13.3940	0.54
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	12.284	12.290	(0.930)	3510	1.34584	0.054(a)
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	12.570	12.566	(0.952)	1386	2.29399	0.092(a)
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	12.658	12.665	(0.958)	104239	120.732	4.8
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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

4-7-10

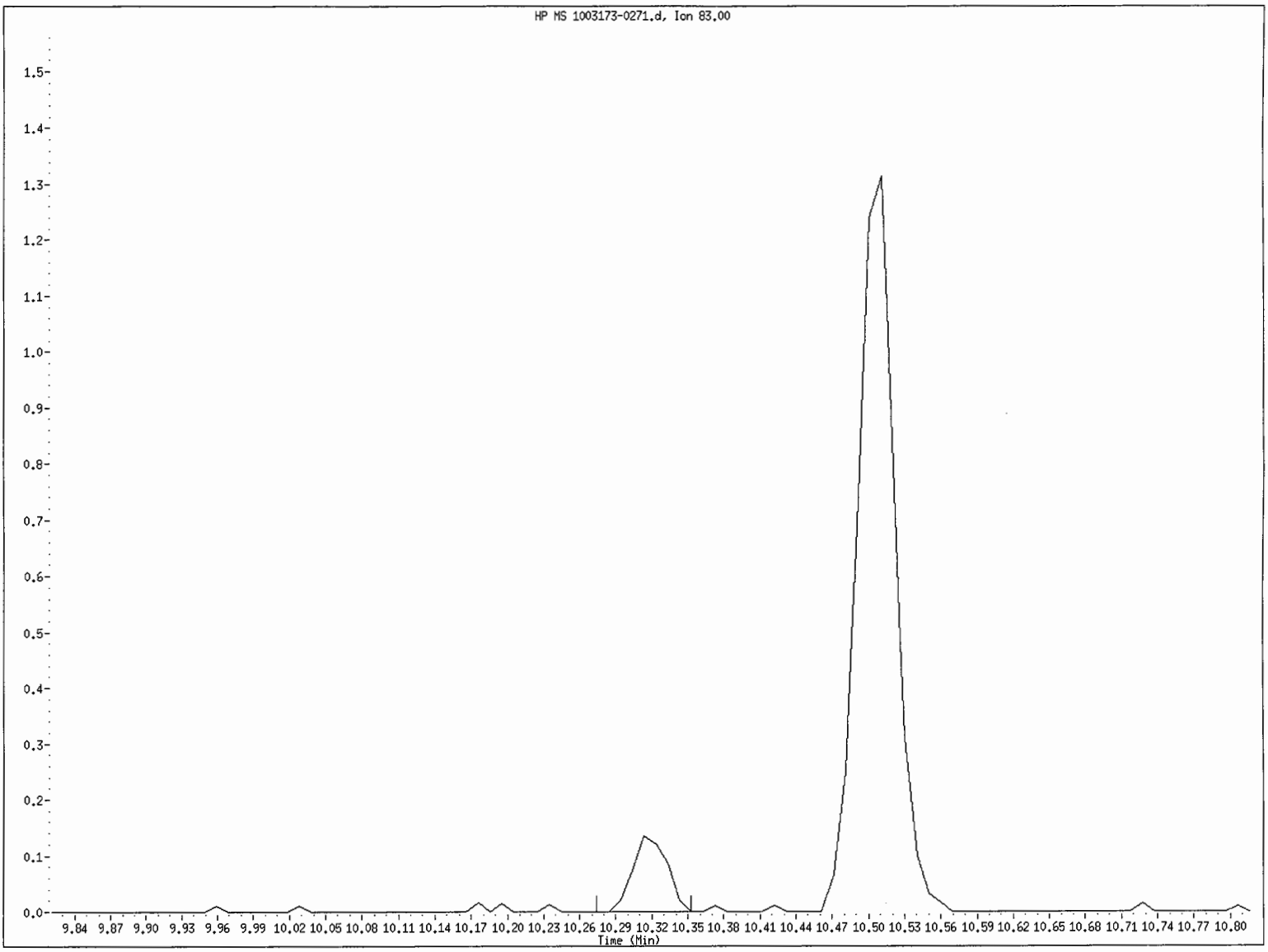
Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d
Report Date: 07-Apr-2010 16:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
81	1,2,3-Trichloropropane	110	Compound Not Detected.					
80	trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92	1,3-Dichlorobenzene	146	Compound Not Detected.					
93	1,4-Dichlorobenzene	146	Compound Not Detected.					
95	1,2-Dichlorobenzene	146	Compound Not Detected.					
97	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98	Hexachlorobutadiene	225	Compound Not Detected.					
99	Naphthalene	128	Compound Not Detected.					
M 102	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.
M - Compound response manually integrated.

Chloroform CAS Number 67-66-3 Area = 2690 Manually integrated



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Client ID: MW-2
Instrument ID: 5972hp71.i
Injection Date and Time: 31-MAR-2010 17:10
Retention Time: 10.31
Operator ID: JAO

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

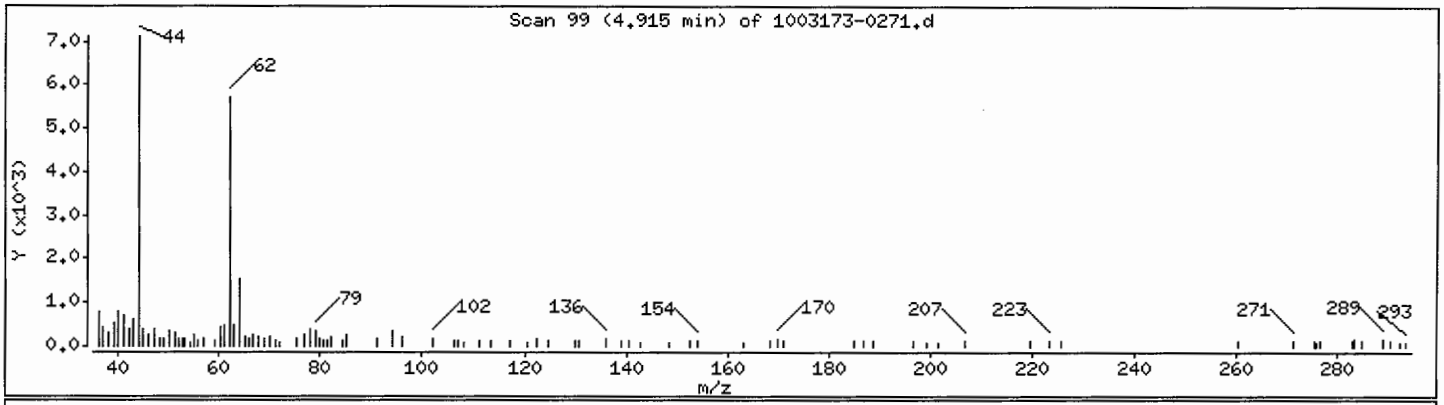
Client ID: MW-2 Instrument: 5972hp71.i

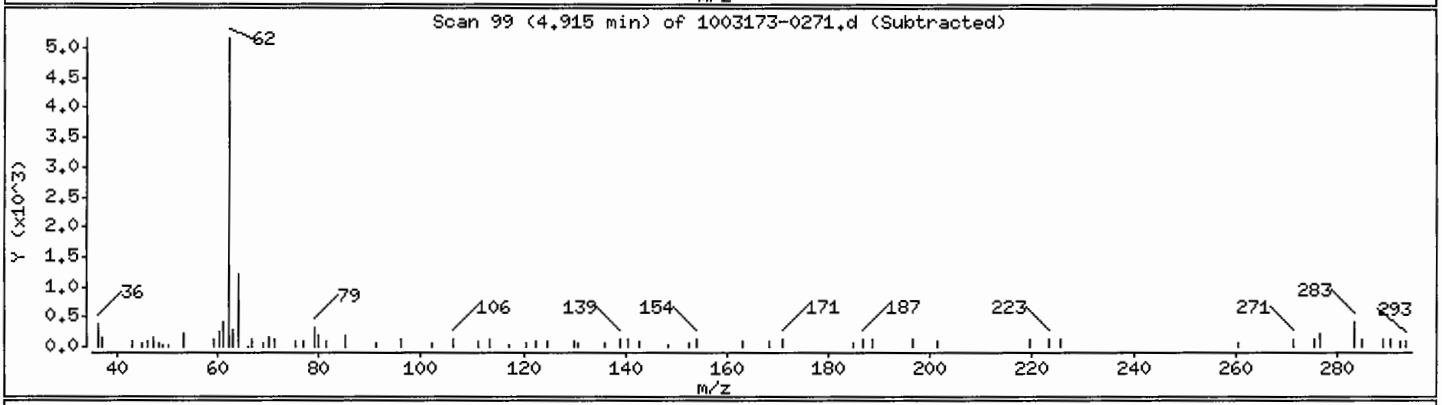
Sample Info: 1003173-02:JAO

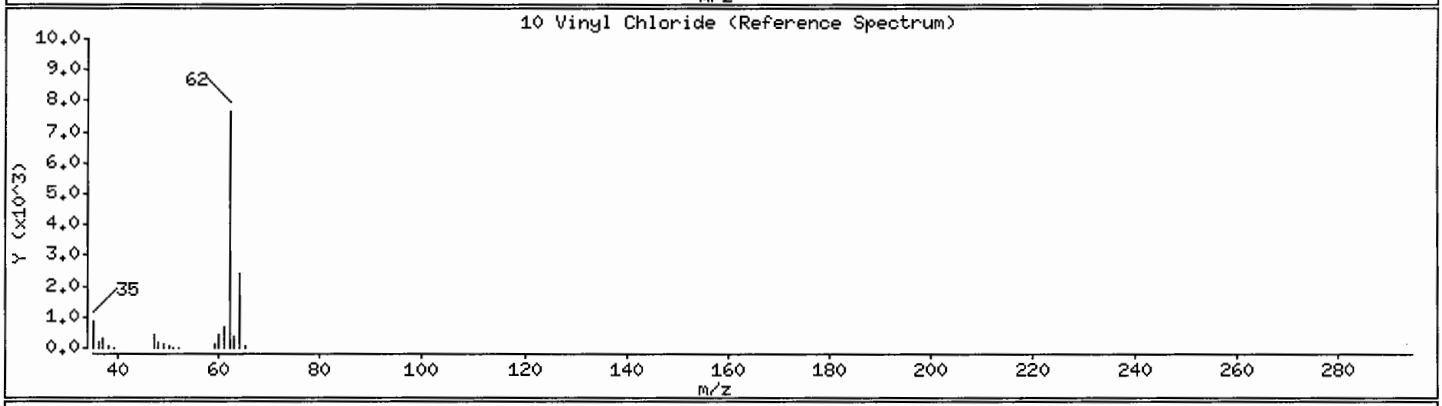
Purge Volume: 25.0 Operator: JAO

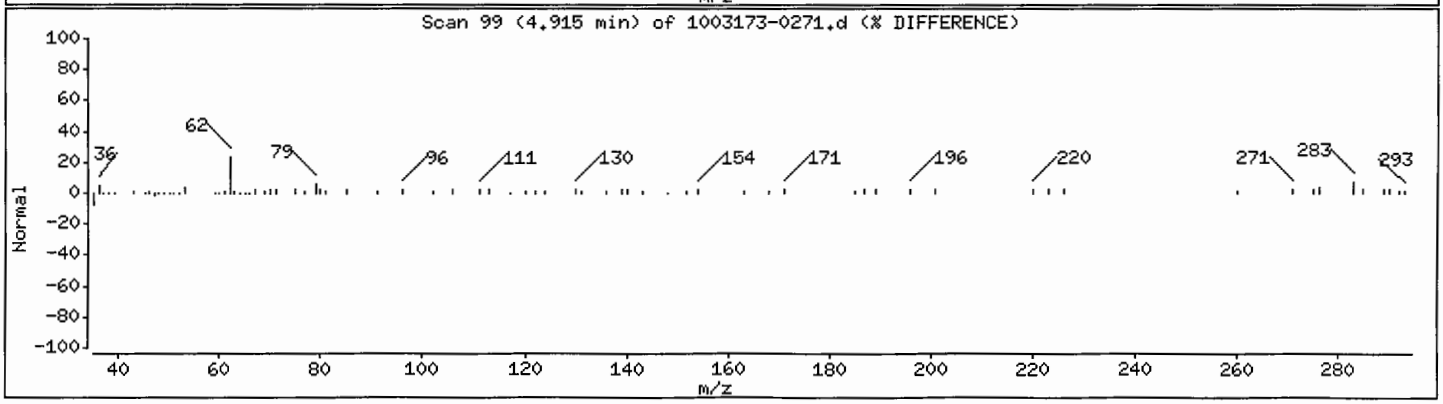
Column phase: SPB-624 Column diameter: 0.32

10 Vinyl Chloride Concentration: 0.55 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

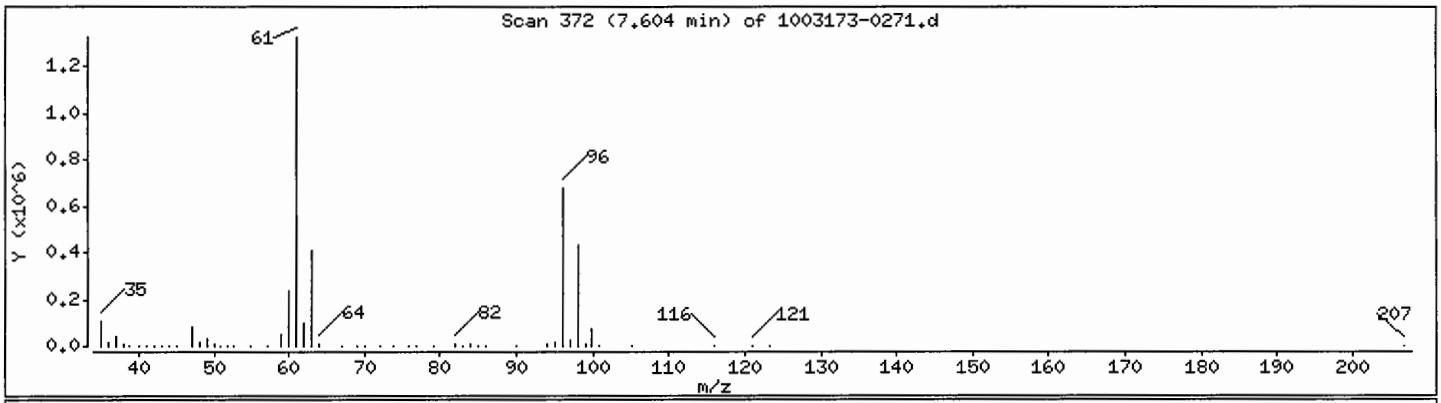
Client ID: MW-2 Instrument: 5972hp71.i

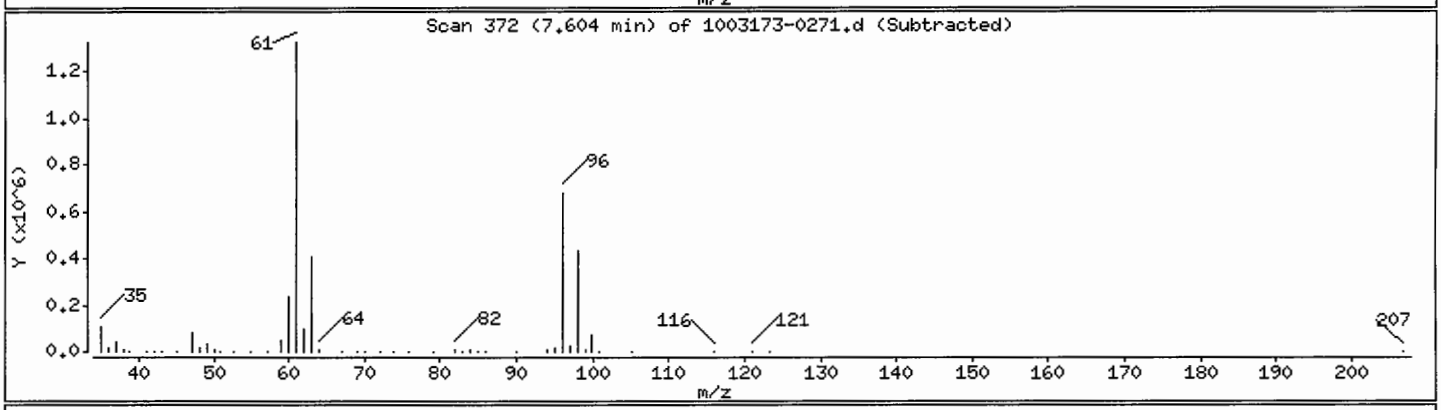
Sample Info: 1003173-02:JAO

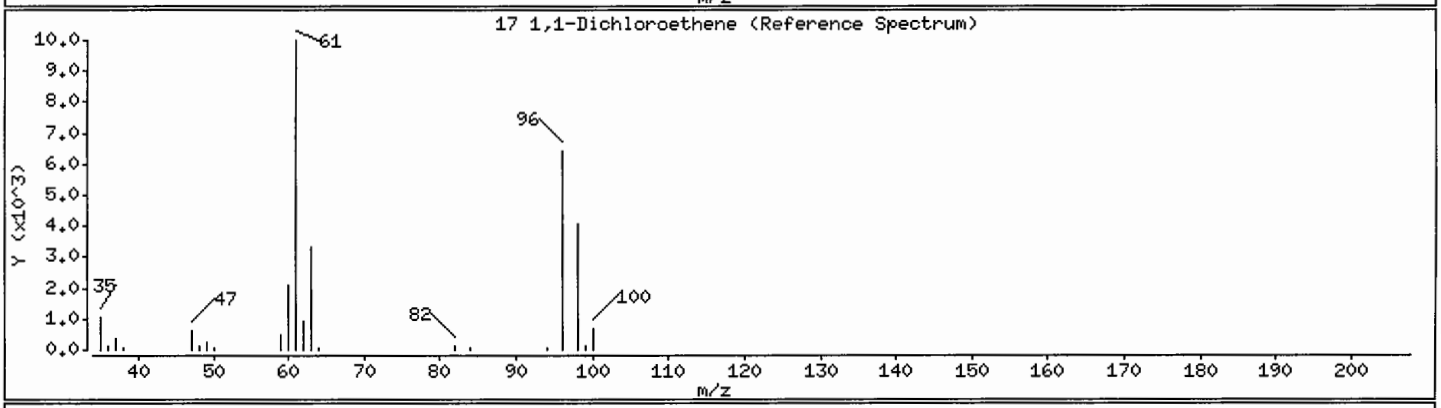
Purge Volume: 25.0 Operator: JAO

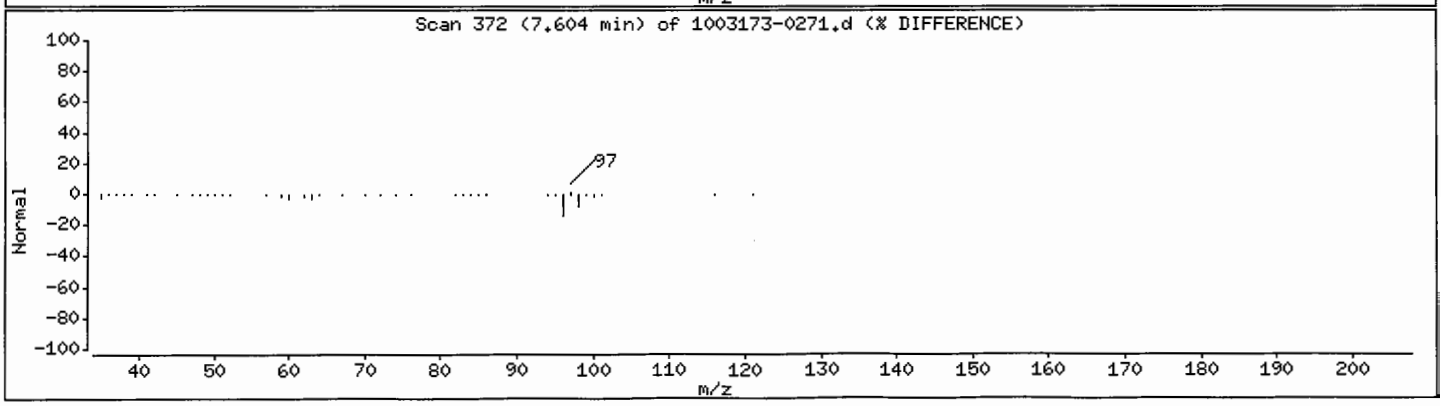
Column phase: SPB-624 Column diameter: 0.32

17 1,1-Dichloroethene Concentration: 86 ug/L









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Date : 31-MAR-2010 17:10

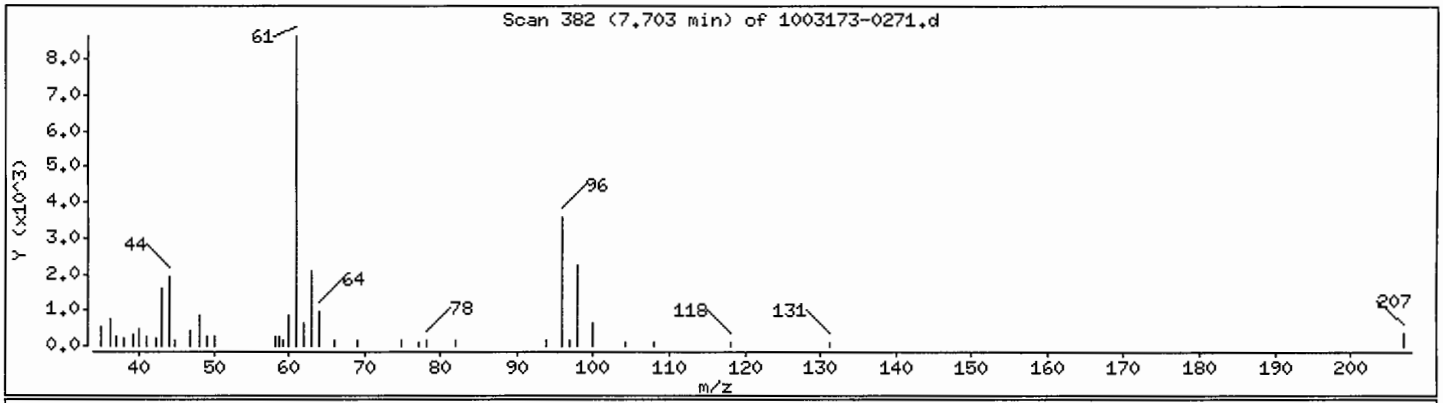
Client ID: MW-2 Instrument: 5972hp71.i

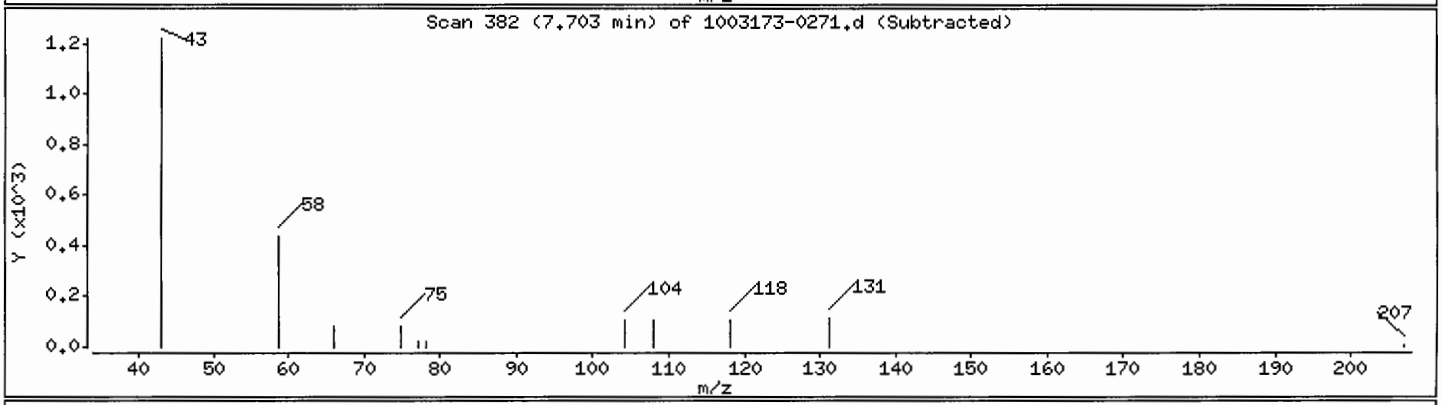
Sample Info: 1003173-02:JAO

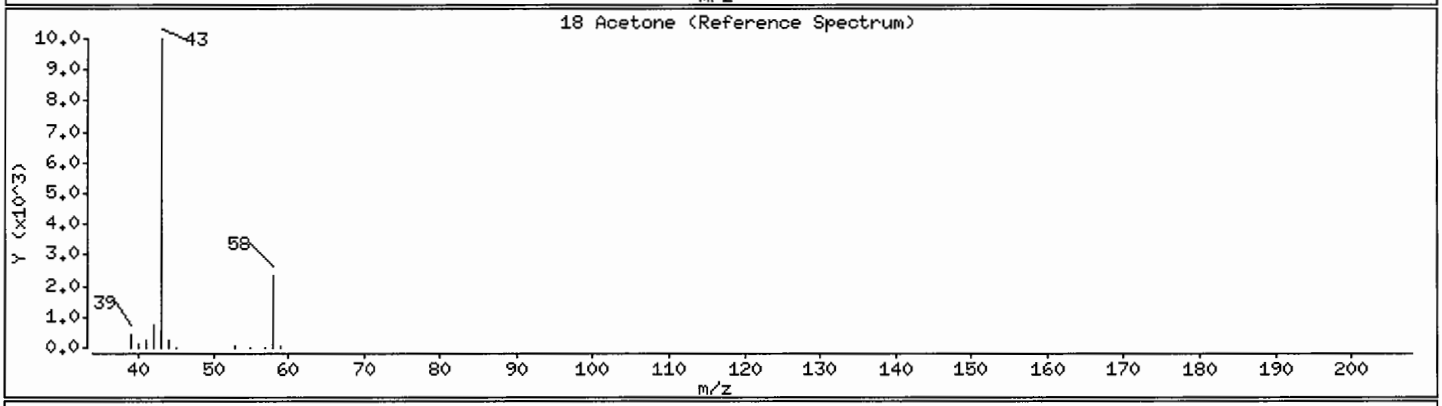
Purge Volume: 25.0 Operator: JAO

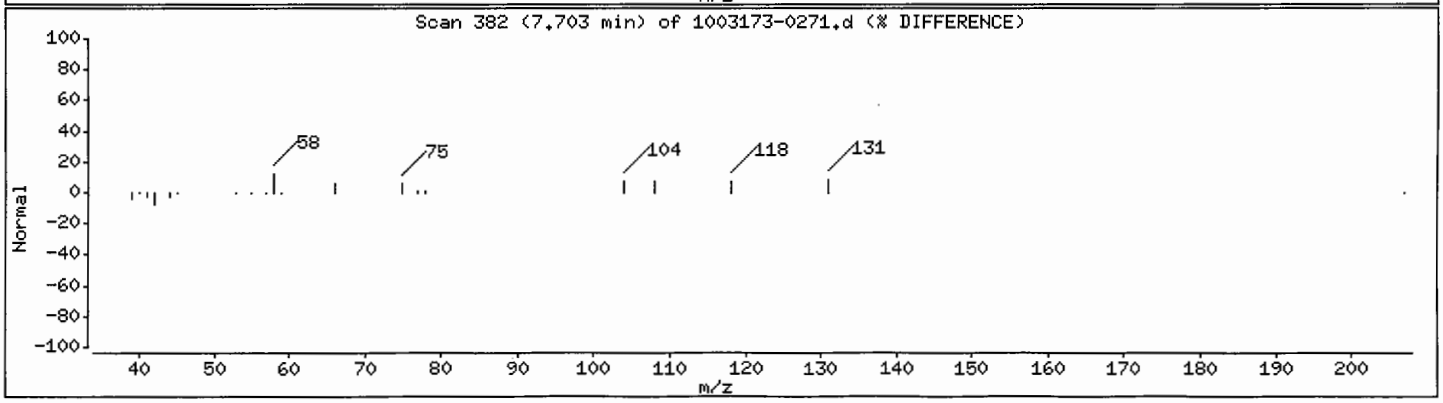
Column phase: SPB-624 Column diameter: 0.32

18 Acetone Concentration: 1.3 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

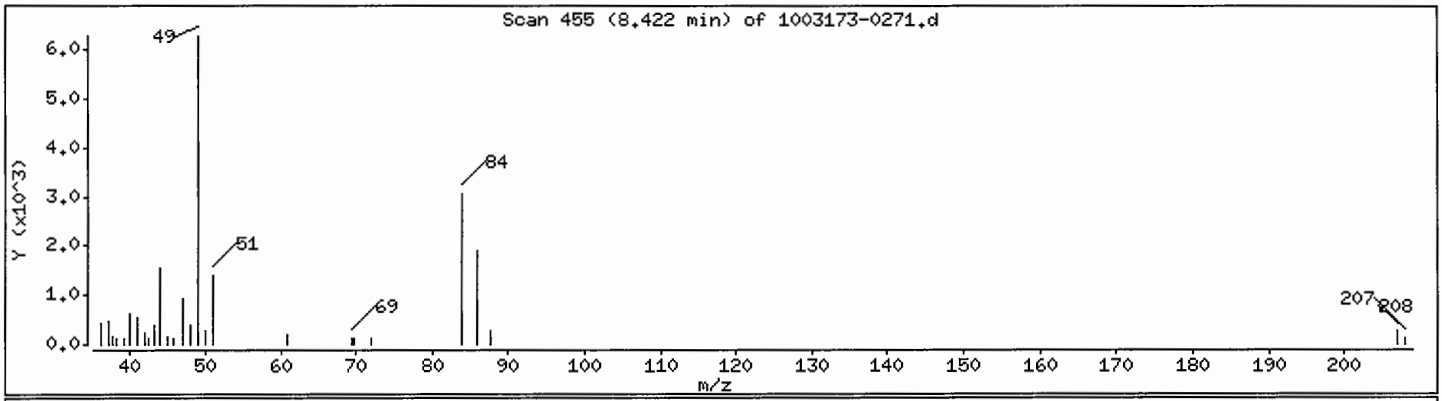
Client ID: MW-2 Instrument: 5972hp71.i

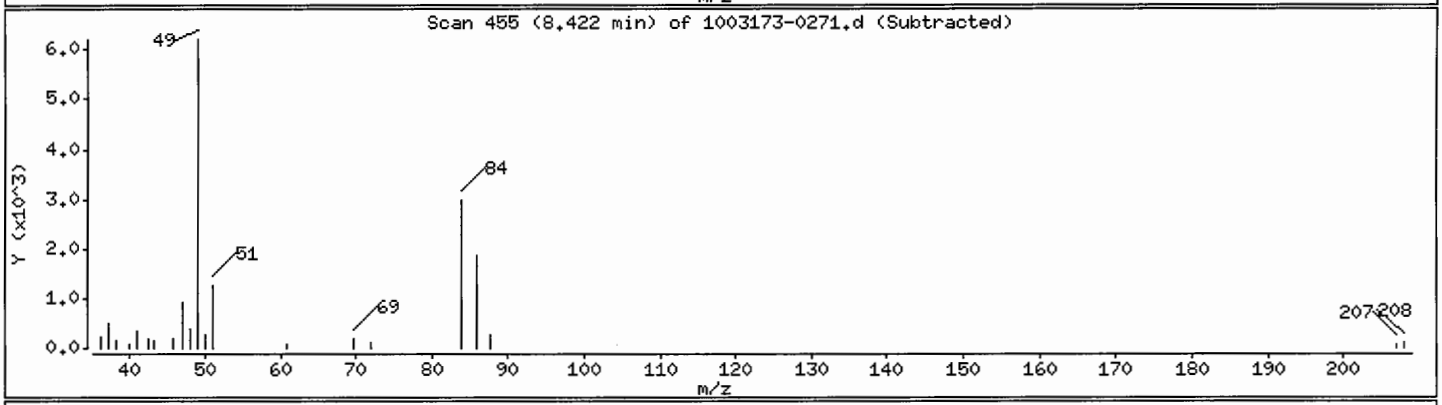
Sample Info: 1003173-02:JAO

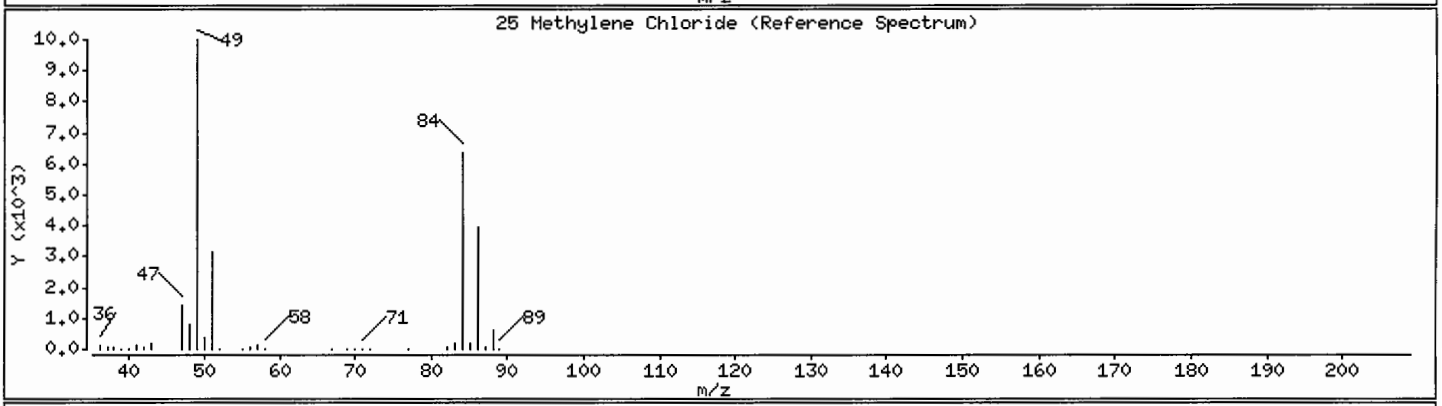
Purge Volume: 25.0 Operator: JAO

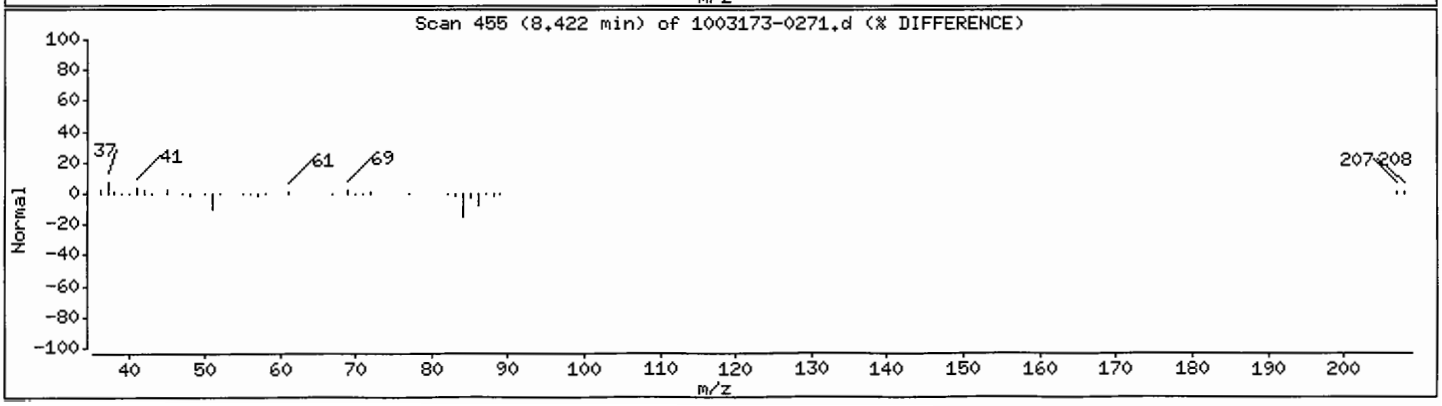
Column phase: SPB-624 Column diameter: 0.32

25 Methylene Chloride Concentration: 0.38 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

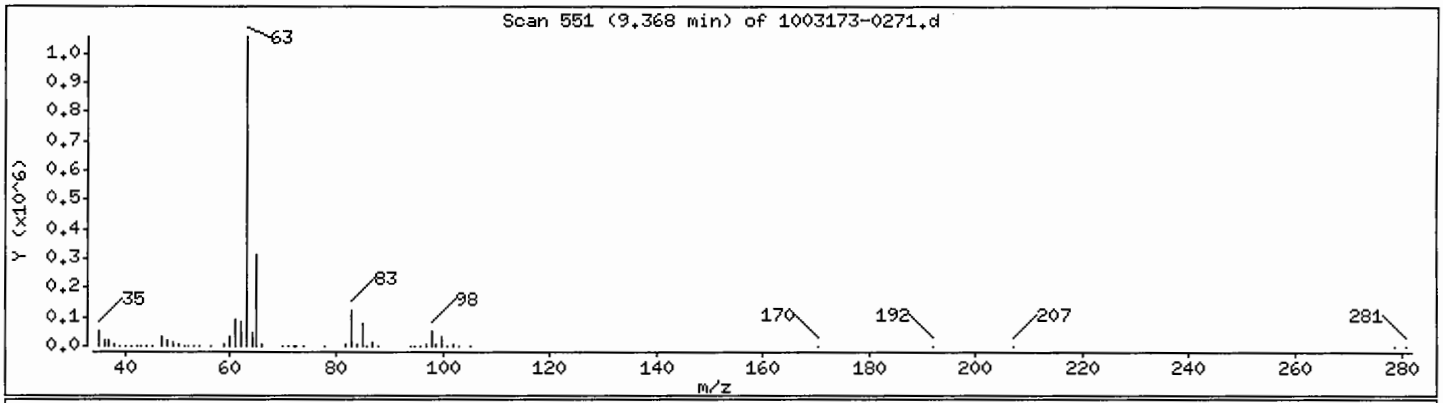
Client ID: MW-2 Instrument: 5972hp71.i

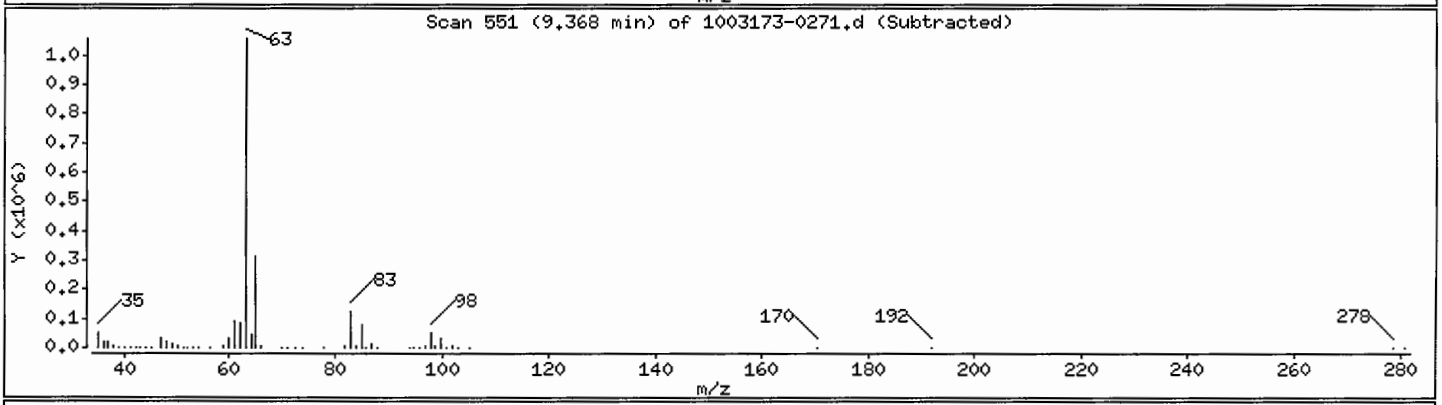
Sample Info: 1003173-02:JAO

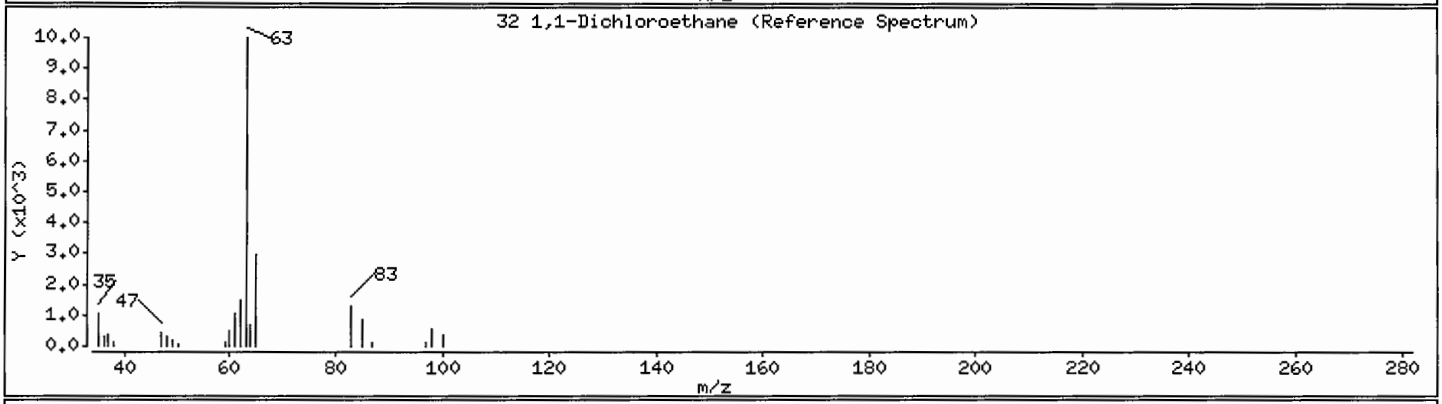
Purge Volume: 25.0 Operator: JAO

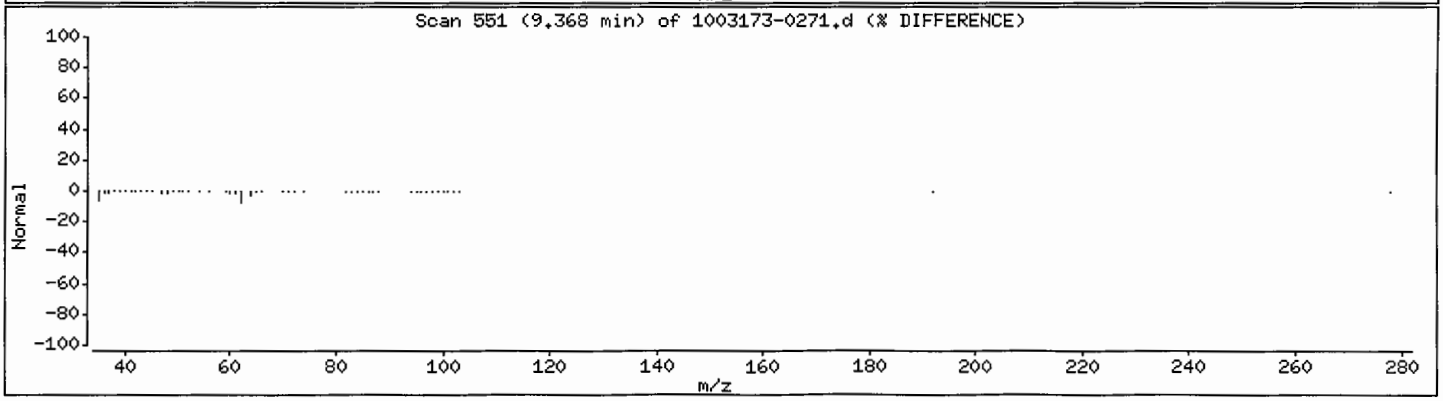
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 51 ug/L









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Date : 31-MAR-2010 17:10

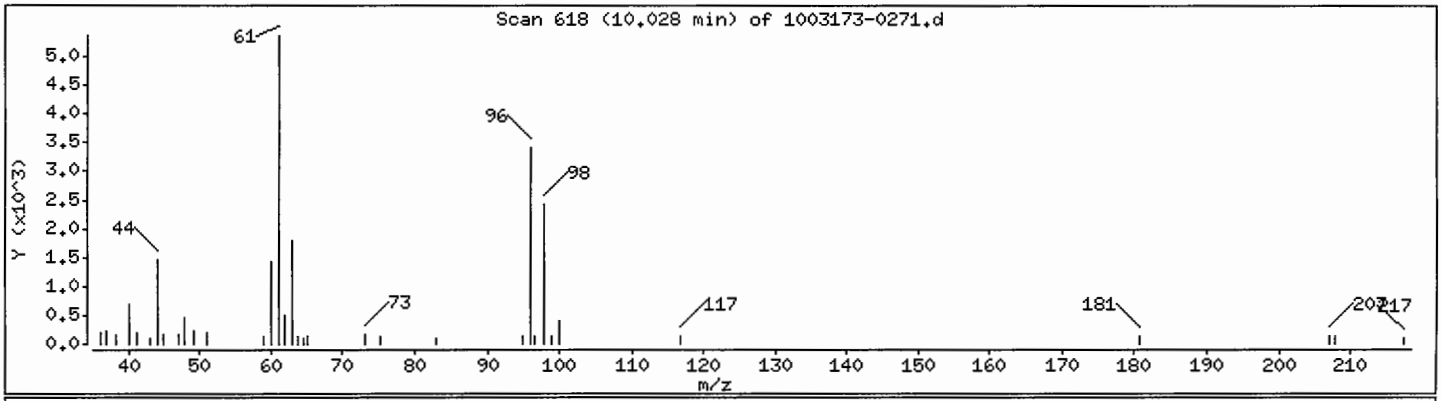
Client ID: MW-2 Instrument: 5972hp71.i

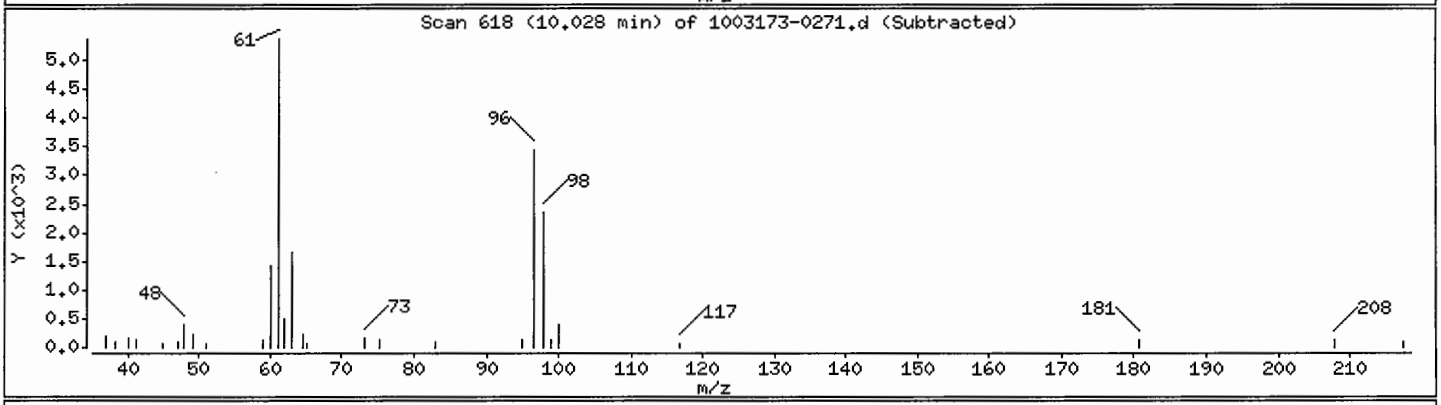
Sample Info: 1003173-02:JAO

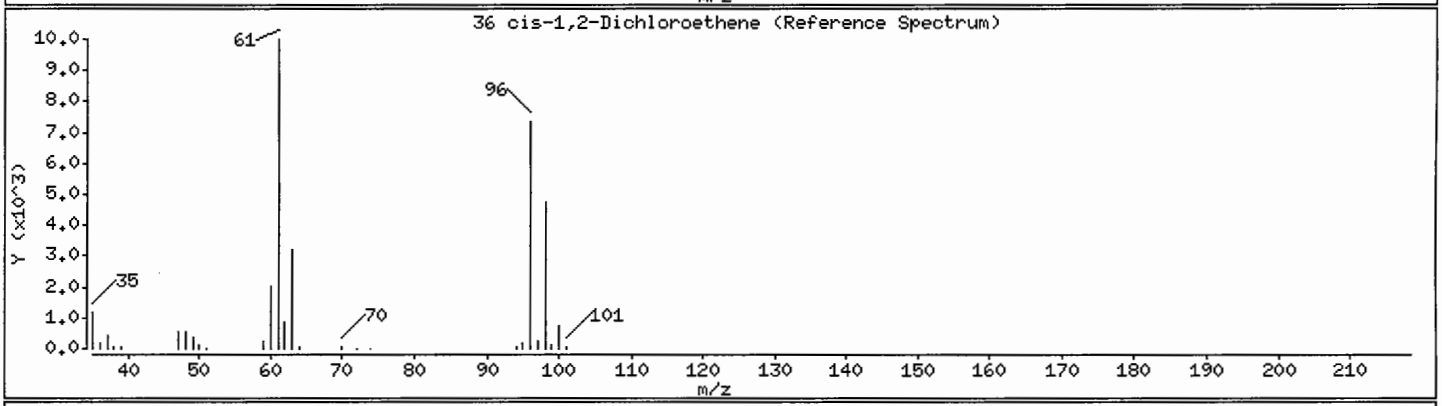
Purge Volume: 25.0 Operator: JAO

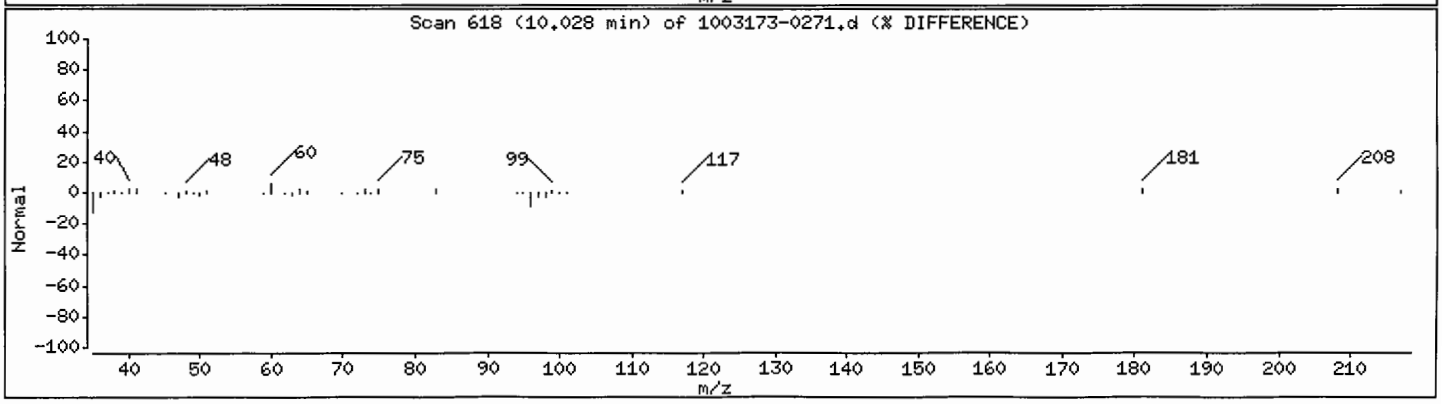
Column phase: SPB-624 Column diameter: 0.32

36 cis-1,2-Dichloroethene Concentration: 0.26 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

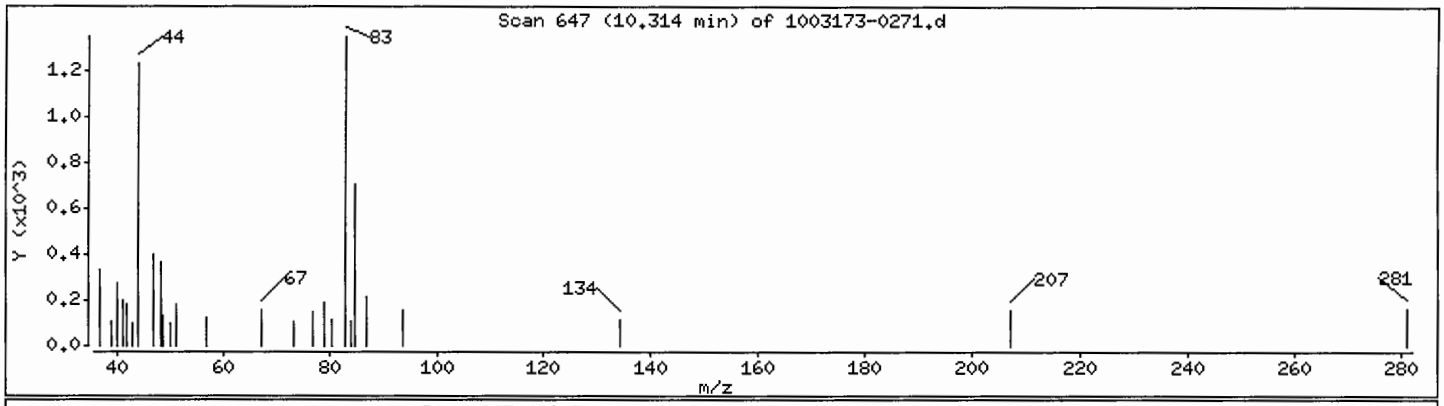
Client ID: MW-2 Instrument: 5972hp71.i

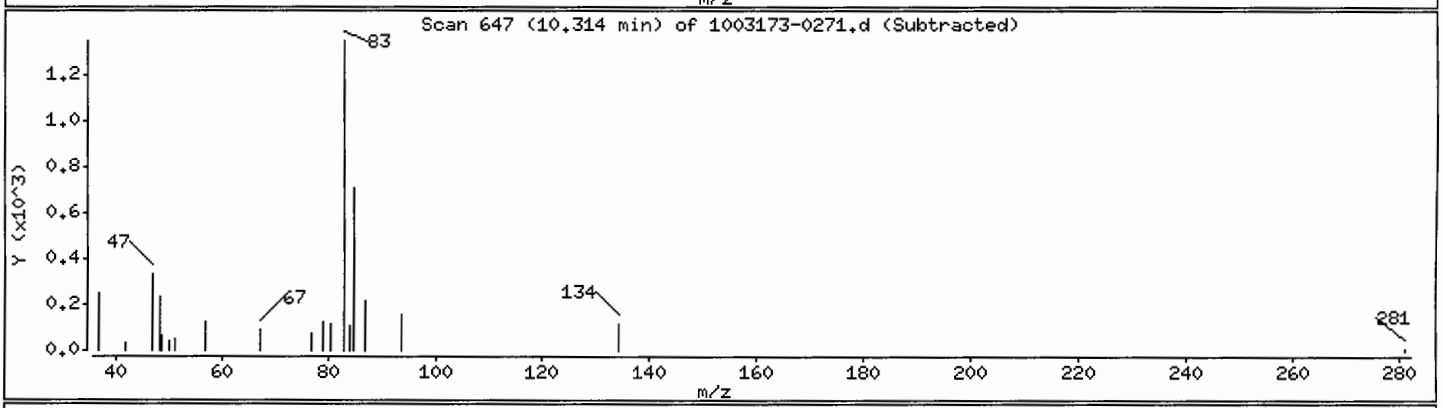
Sample Info: 1003173-02:JAO

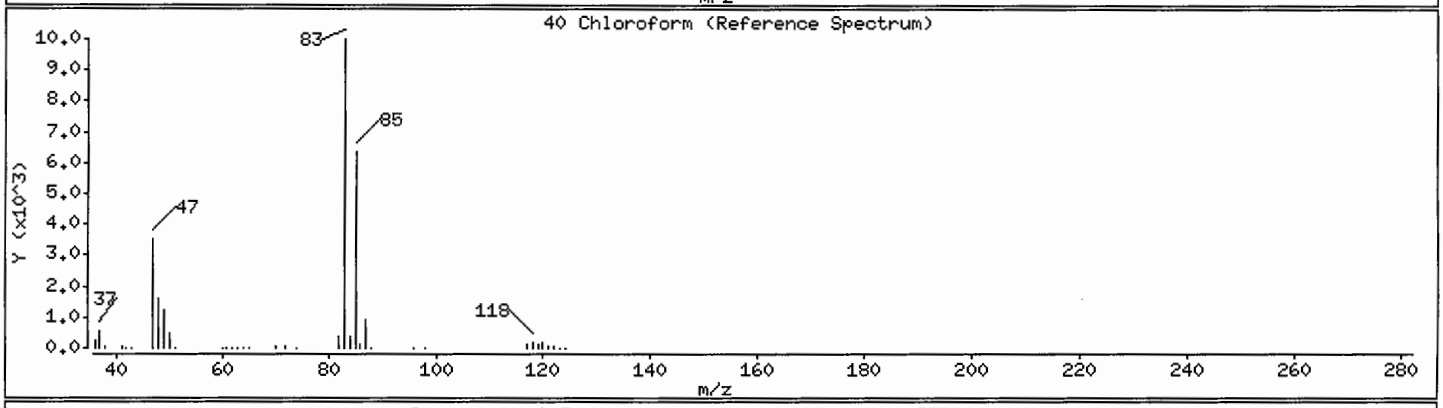
Purge Volume: 25.0 Operator: JAO

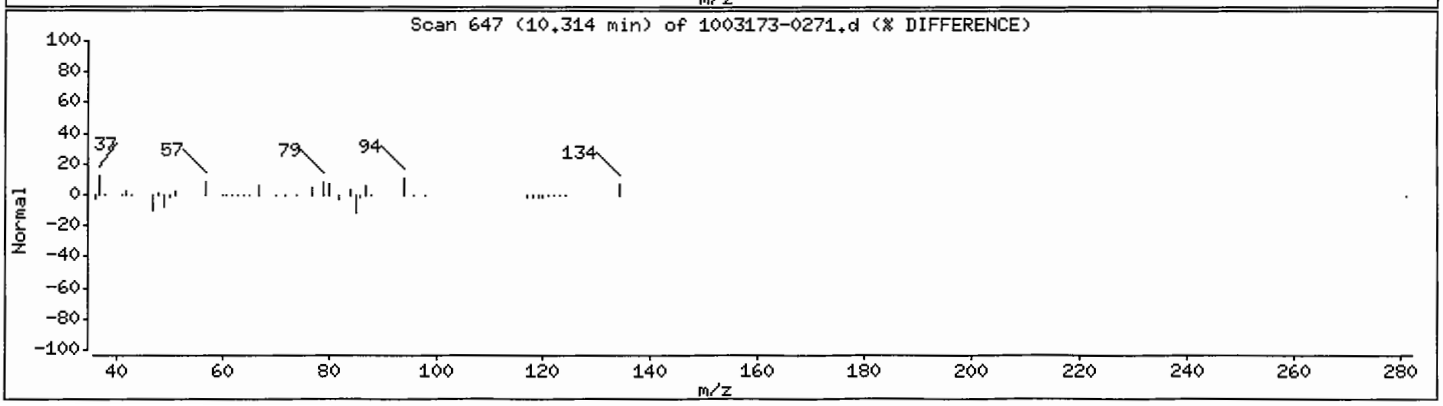
Column phase: SPB-624 Column diameter: 0.32

40 Chloroform Concentration: 0.059 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

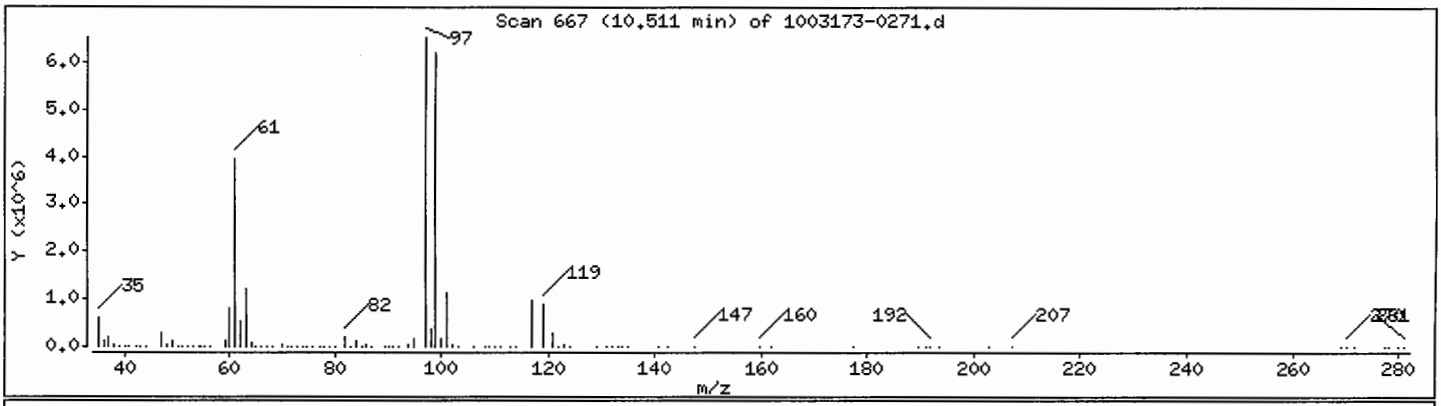
Client ID: MW-2 Instrument: 5972hp71.i

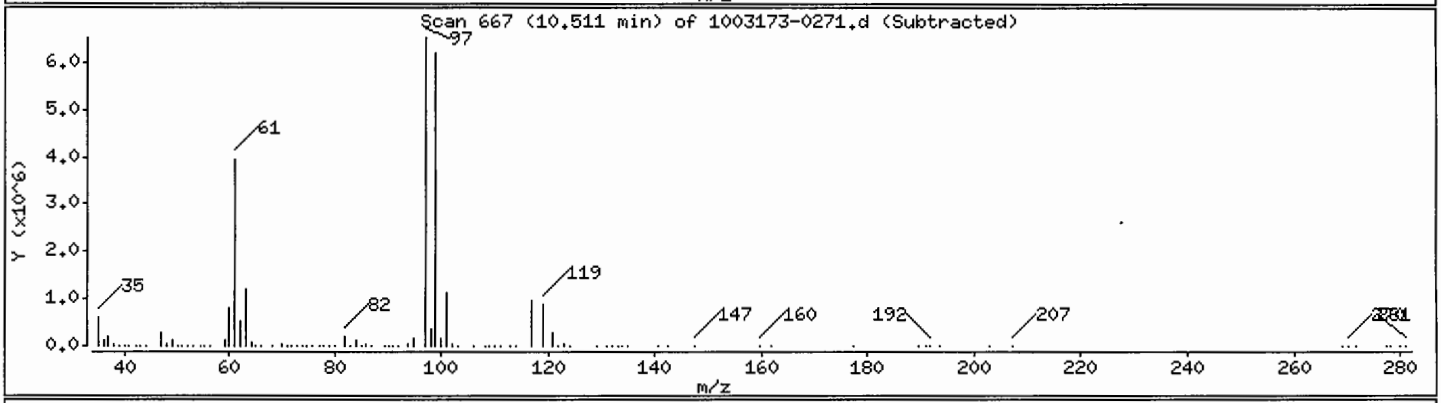
Sample Info: 1003173-02:JAO

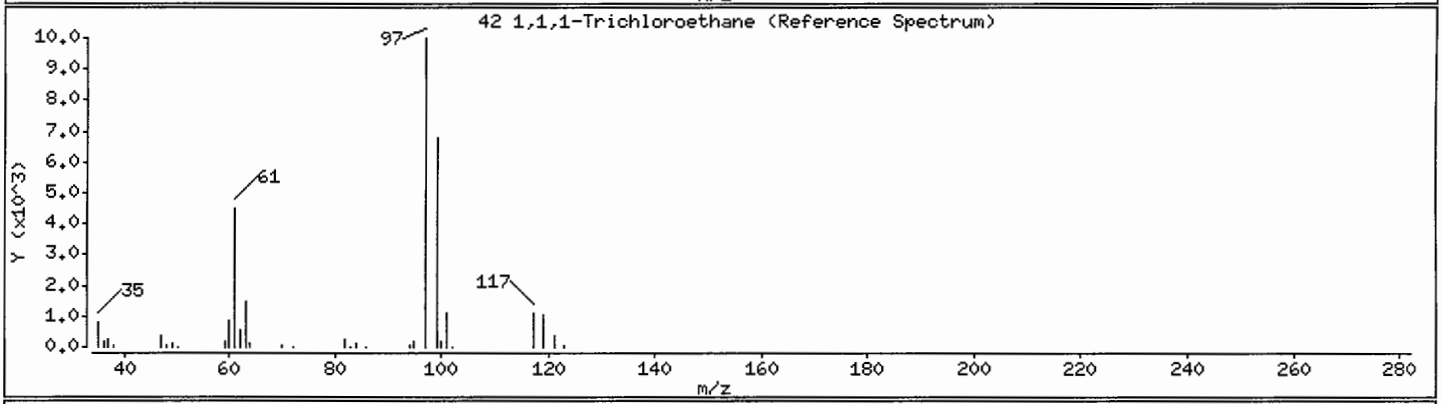
Purge Volume: 25.0 Operator: JAO

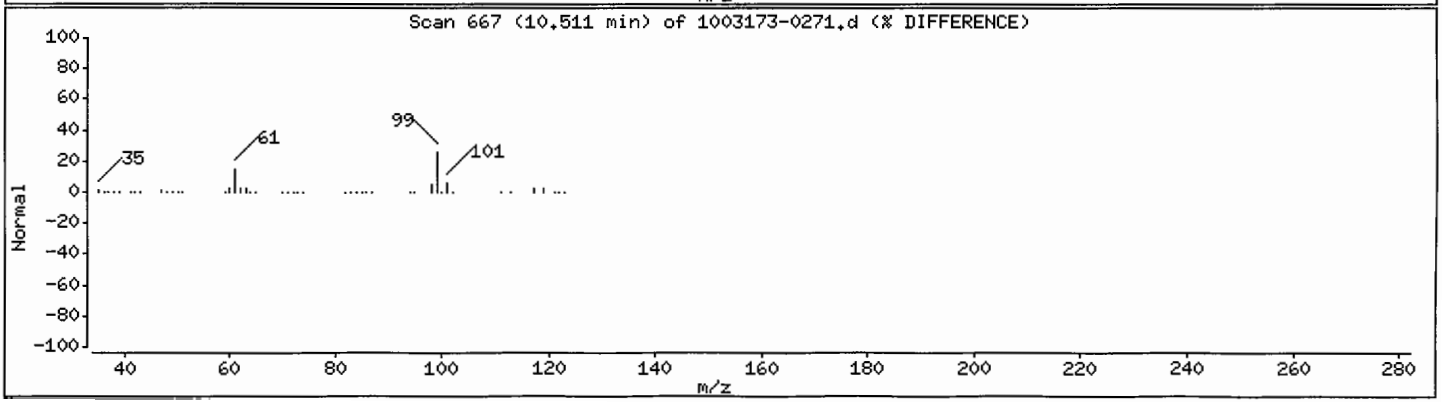
Column phase: SPB-624 Column diameter: 0.32

42 1,1,1-Trichloroethane Concentration: 330 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

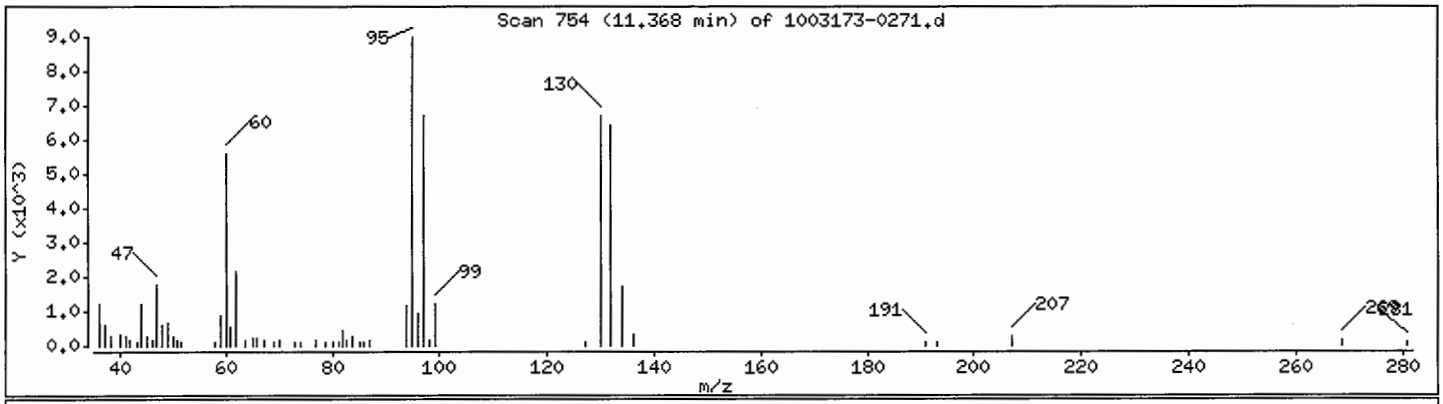
Client ID: MW-2 Instrument: 5972hp71.i

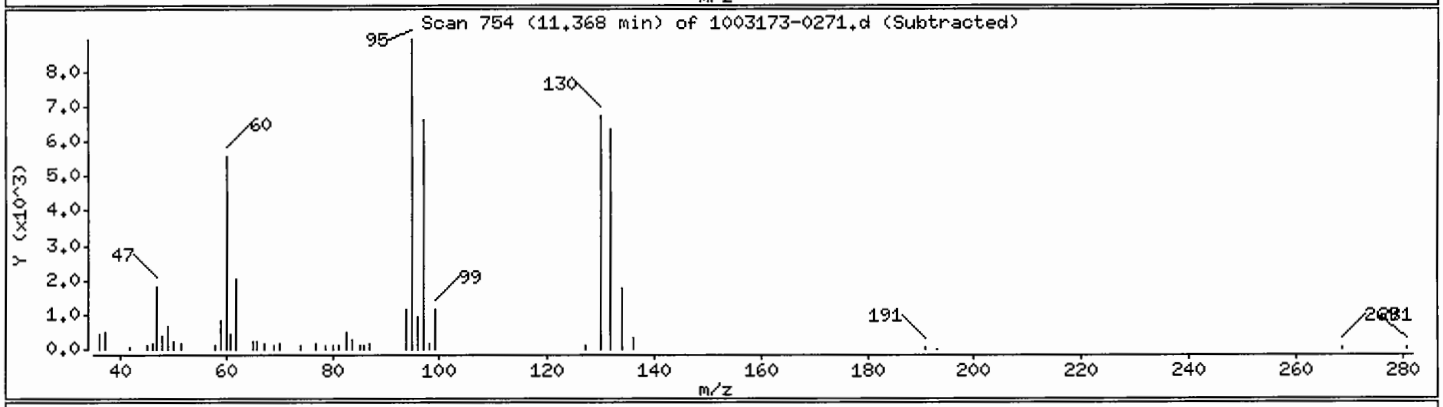
Sample Info: 1003173-02;JAO

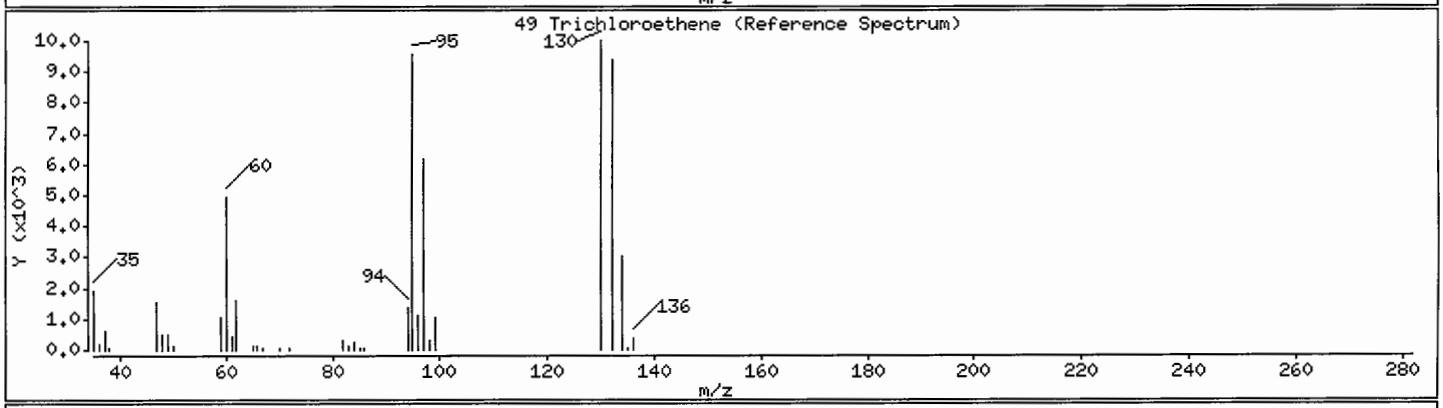
Purge Volume: 25.0 Operator: JAO

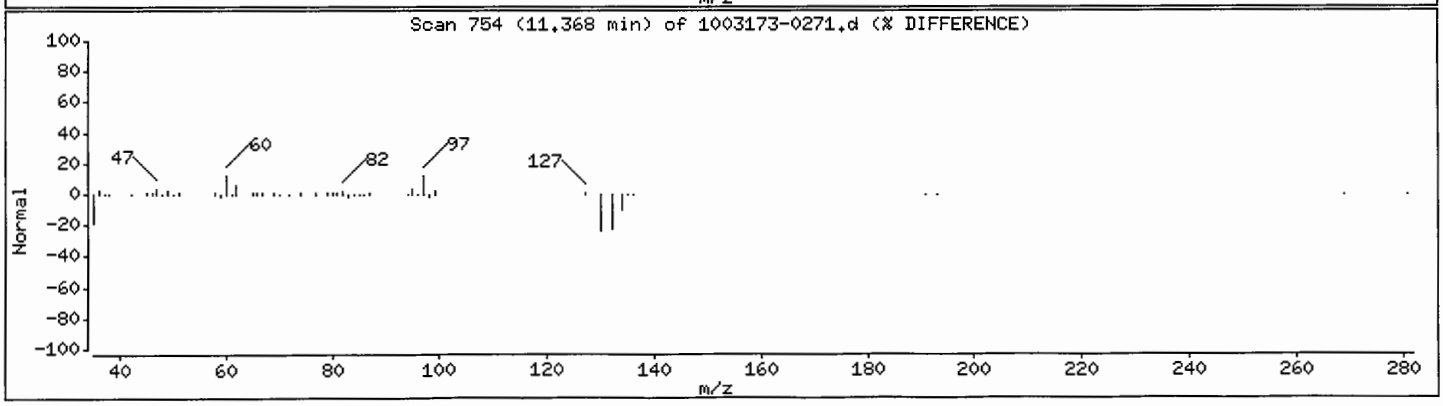
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 0.54 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

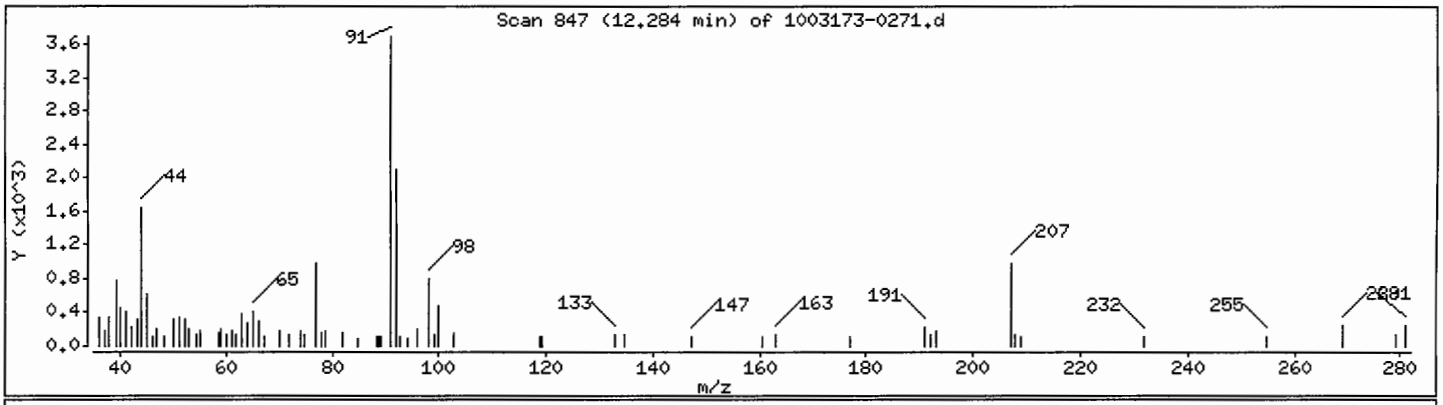
Client ID: MW-2 Instrument: 5972hp71.i

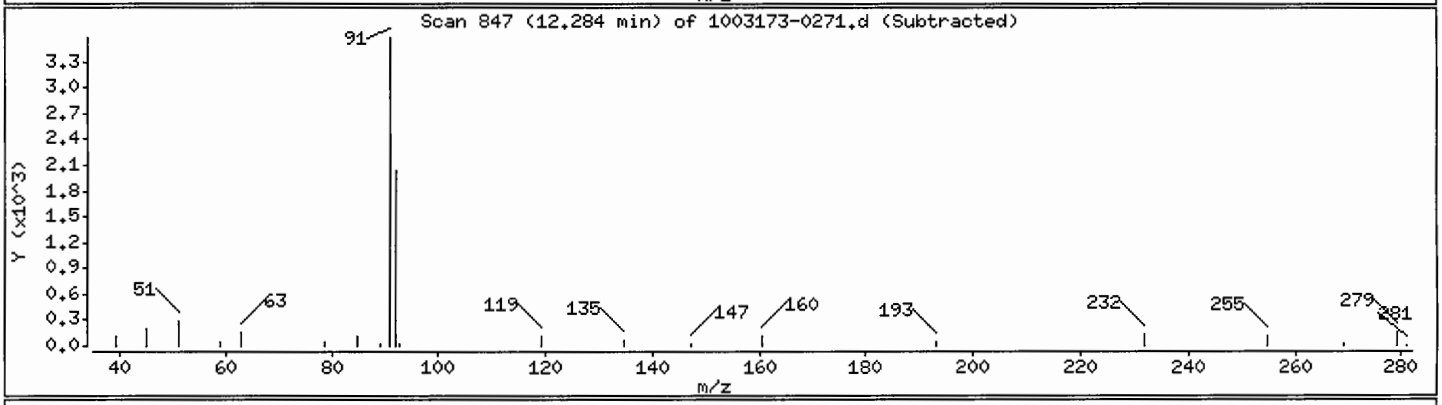
Sample Info: 1003173-02:JAO

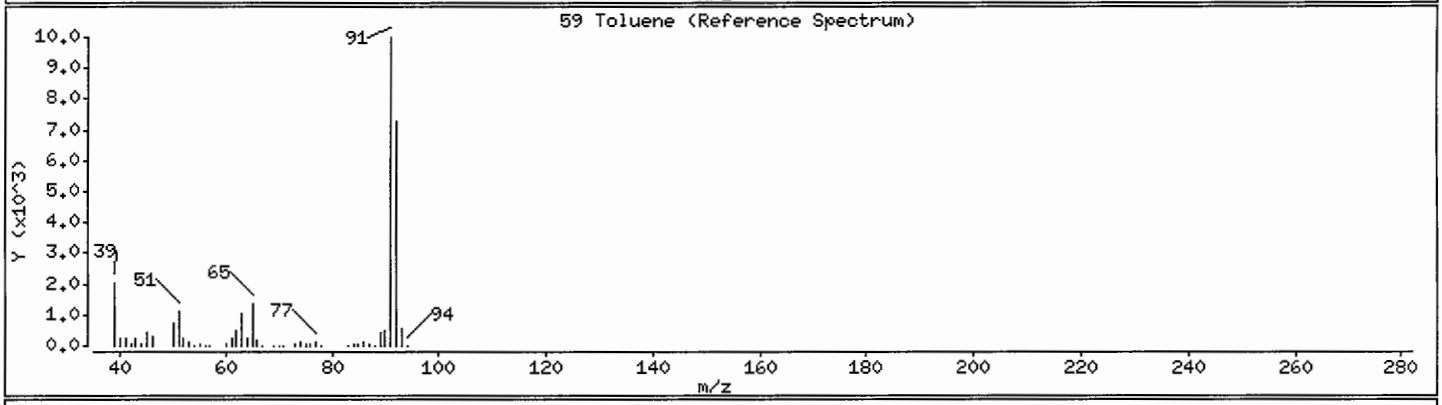
Purge Volume: 25.0 Operator: JAO

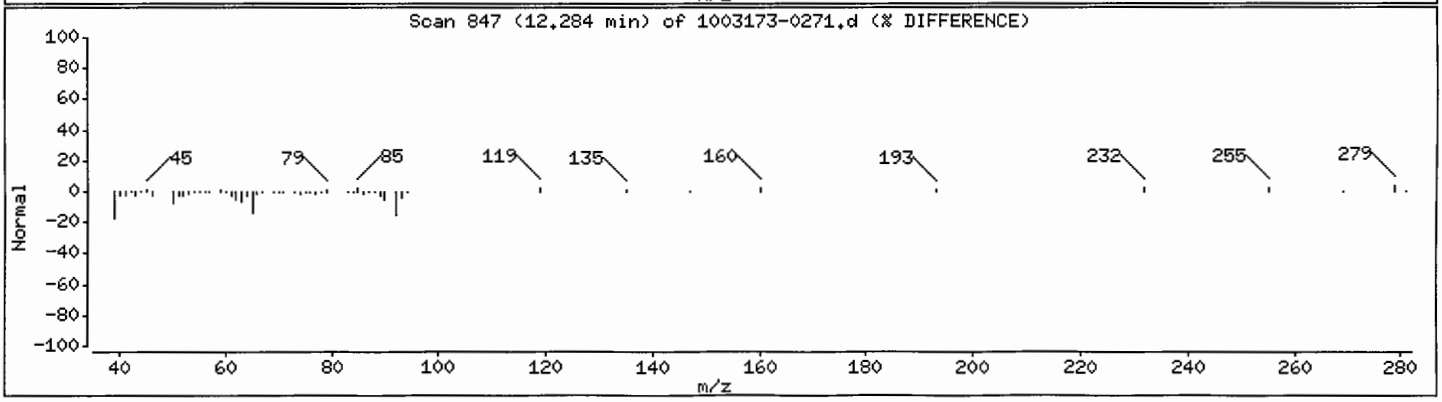
Column phase: SPB-624 Column diameter: 0.32

59 Toluene Concentration: 0.054 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

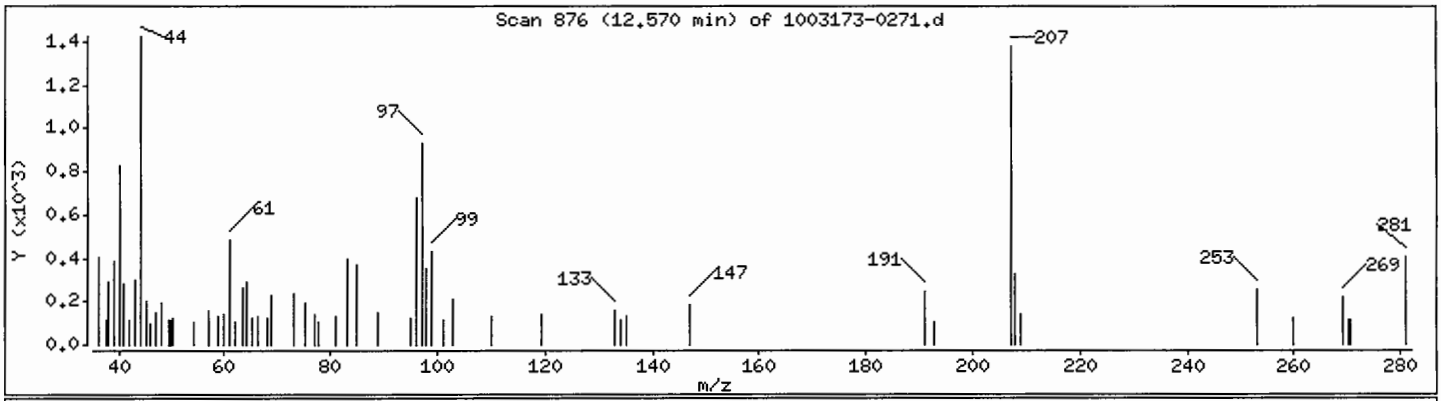
Client ID: MW-2 Instrument: 5972hp71.i

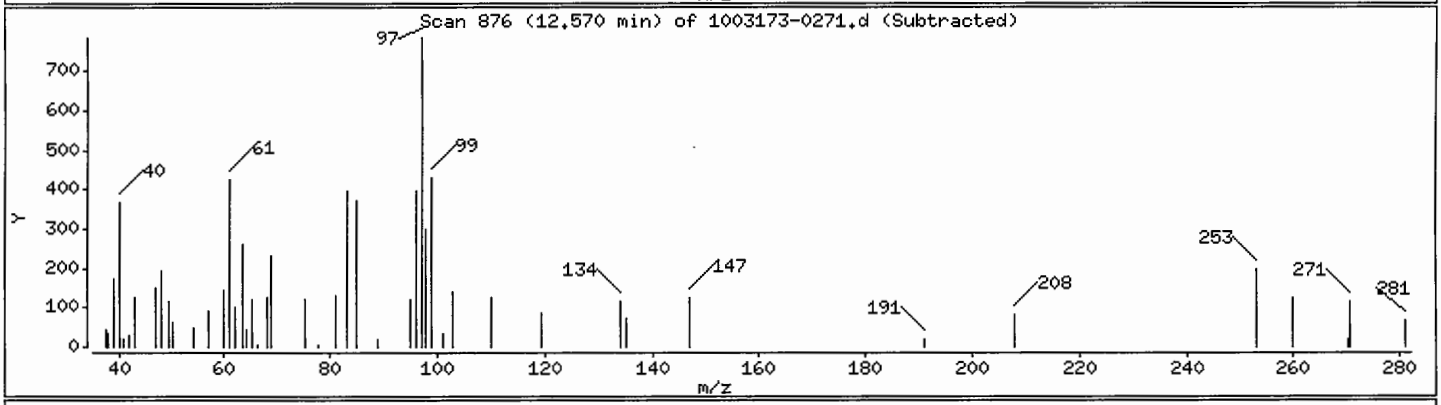
Sample Info: 1003173-02:JAO

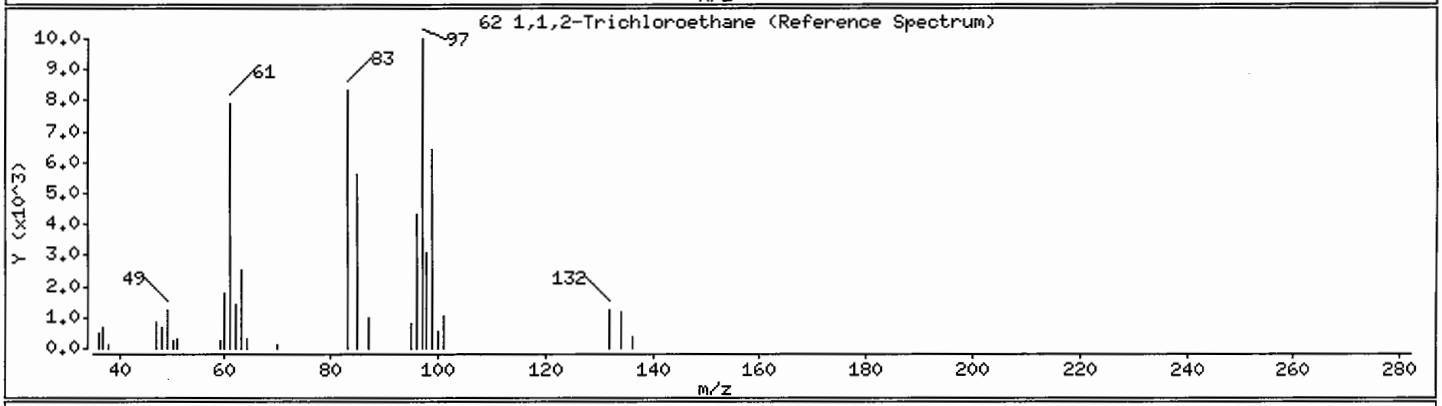
Purge Volume: 25.0 Operator: JAO

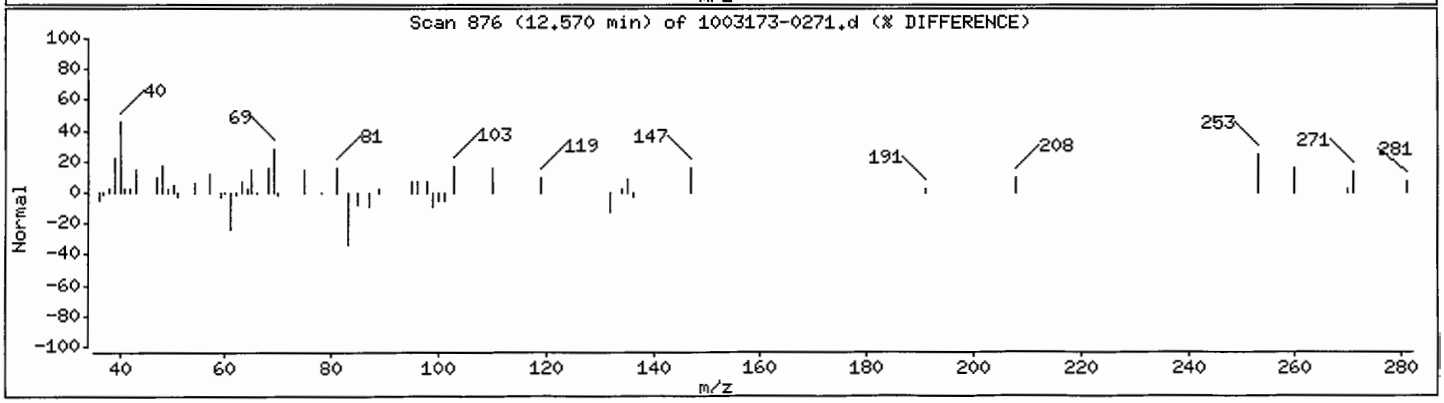
Column phase: SPB-624 Column diameter: 0.32

62 1,1,2-Trichloroethane Concentration: 0.092 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d

Date : 31-MAR-2010 17:10

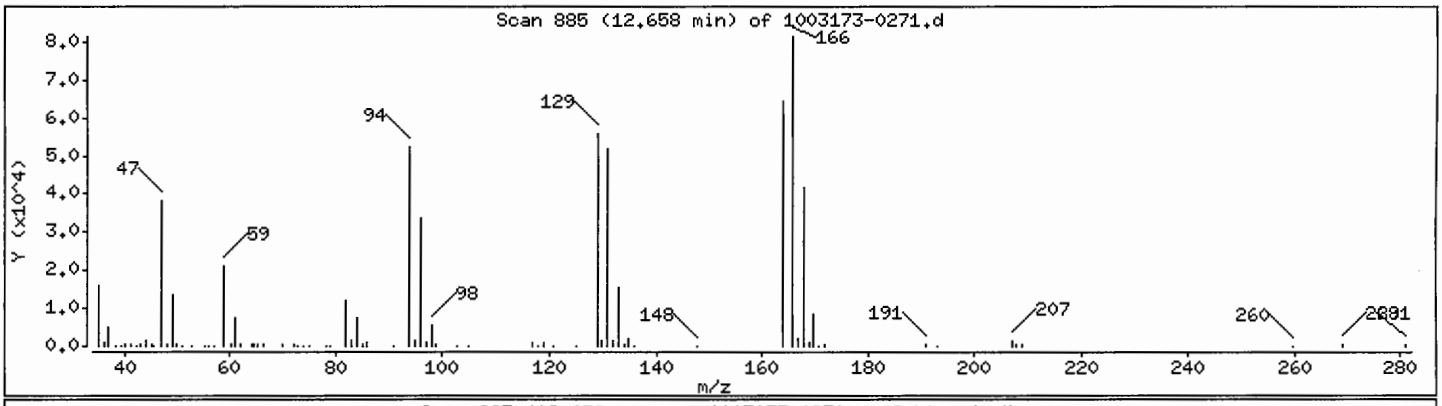
Client ID: MW-2 Instrument: 5972hp71.i

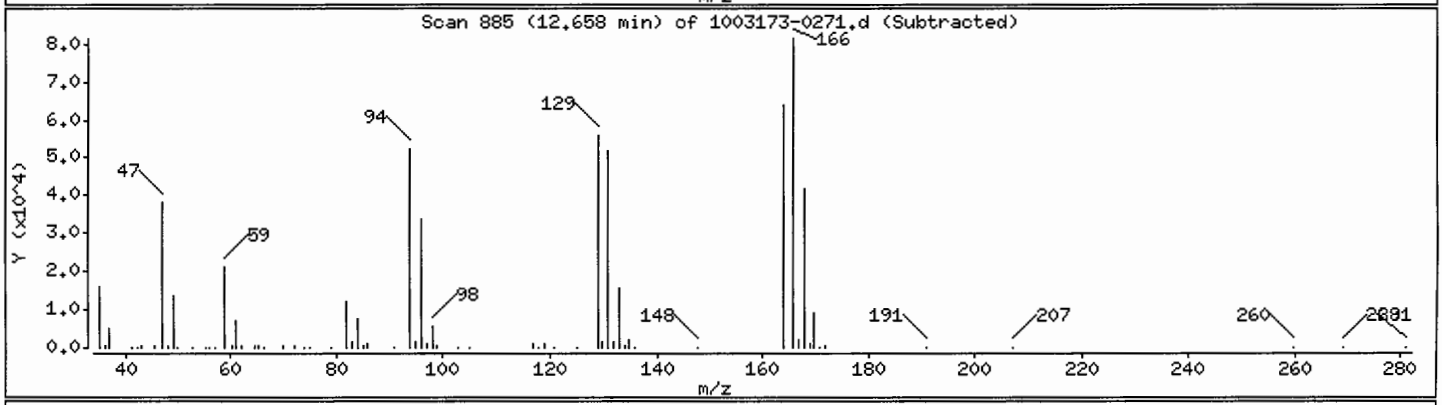
Sample Info: 1003173-02:JAO

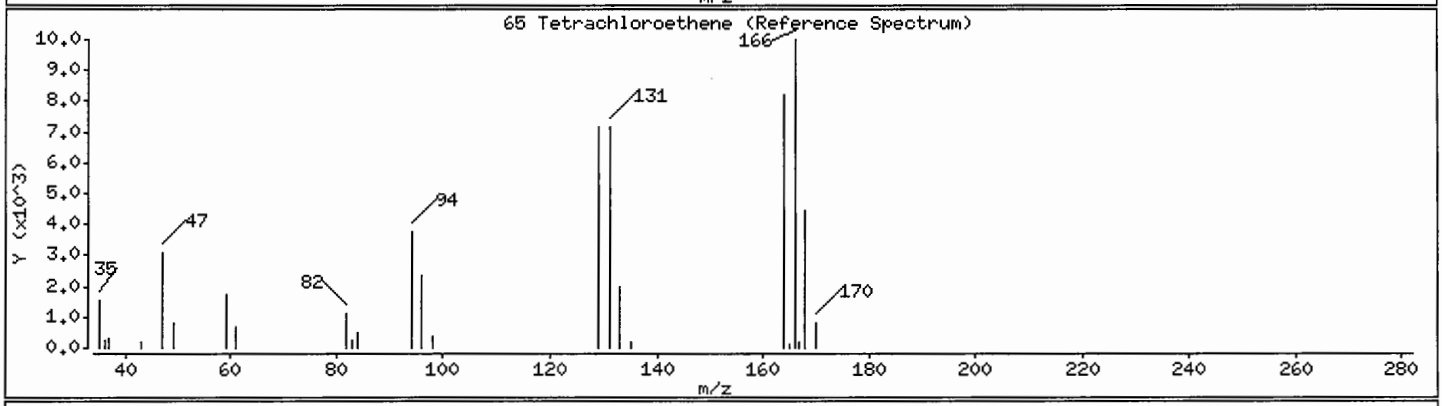
Purge Volume: 25.0 Operator: JAO

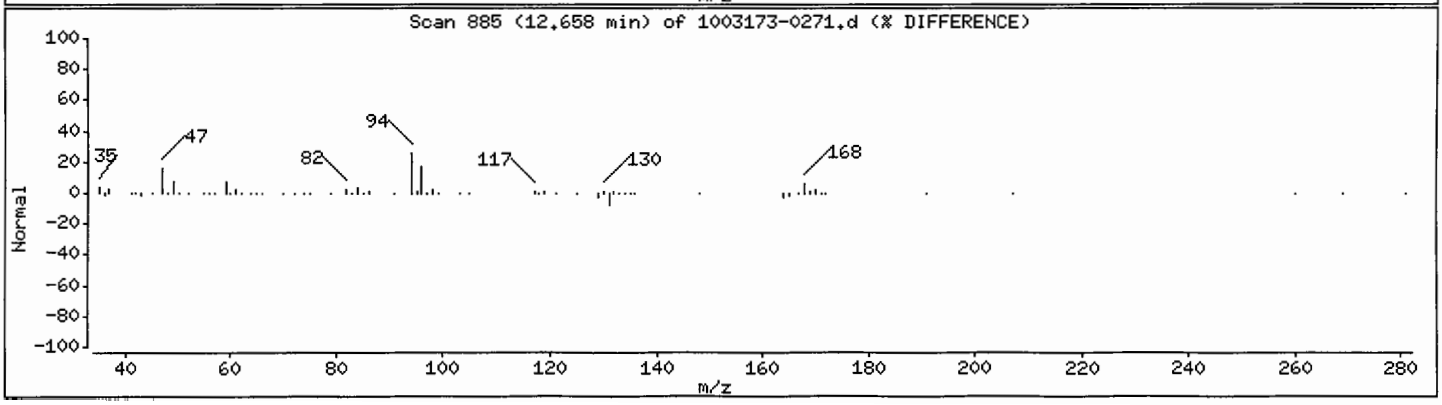
Column phase: SPB-624 Column diameter: 0.32

65 Tetrachloroethene Concentration: 4.8 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0271.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0271.d
Lab Smp Id: 1003173-02 Client Smp ID: MW-2
Inj Date : 31-MAR-2010 17:10
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-02:JAO
Misc Info : MW-2
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-02D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 16.7

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	8.3	U
74-87-3	Chloromethane	8.3	U
75-01-4	Vinyl Chloride	8.3	U
74-83-9	Bromomethane	8.3	U
75-00-3	Chloroethane	8.3	U
75-69-4	Trichlorofluoromethane	8.3	U
107-02-8	Acrolein	83	U
75-35-4	1,1-Dichloroethene	89	D
74-88-4	Iodomethane	8.3	U
75-15-0	Carbon disulfide	8.3	U
67-64-1	Acetone	42	U
107-05-1	3-Chloropropene	8.3	U
75-05-8	Acetonitrile	8.3	U
75-09-2	Methylene Chloride	1.2	DBJ
156-60-5	trans-1,2-Dichloroethene	8.3	U
107-13-1	Acrylonitrile	83	U
75-34-3	1,1-Dichloroethane	56	D
108-05-4	Vinyl acetate	17	U
594-20-7	2,2-Dichloropropane	8.3	U
156-59-2	cis-1,2-Dichloroethene	0.60	DJ
78-93-3	2-butanone	42	U
107-12-0	Propionitrile	420	U
74-97-5	Bromochloromethane	8.3	U
126-98-7	Methacrylonitrile	83	U
67-66-3	Chloroform	8.3	U
71-55-6	1,1,1-Trichloroethane	470	D
56-23-5	Carbon Tetrachloride	8.3	U
563-58-6	1,1-dichloropropene	8.3	U
71-43-2	Benzene	8.3	U
107-06-2	1,2-Dichloroethane	8.3	U
78-83-1	Isobutyl alcohol	420	U
79-01-6	Trichloroethene	8.3	U
78-87-5	1,2-Dichloropropane	8.3	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-02DL

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-02D71

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

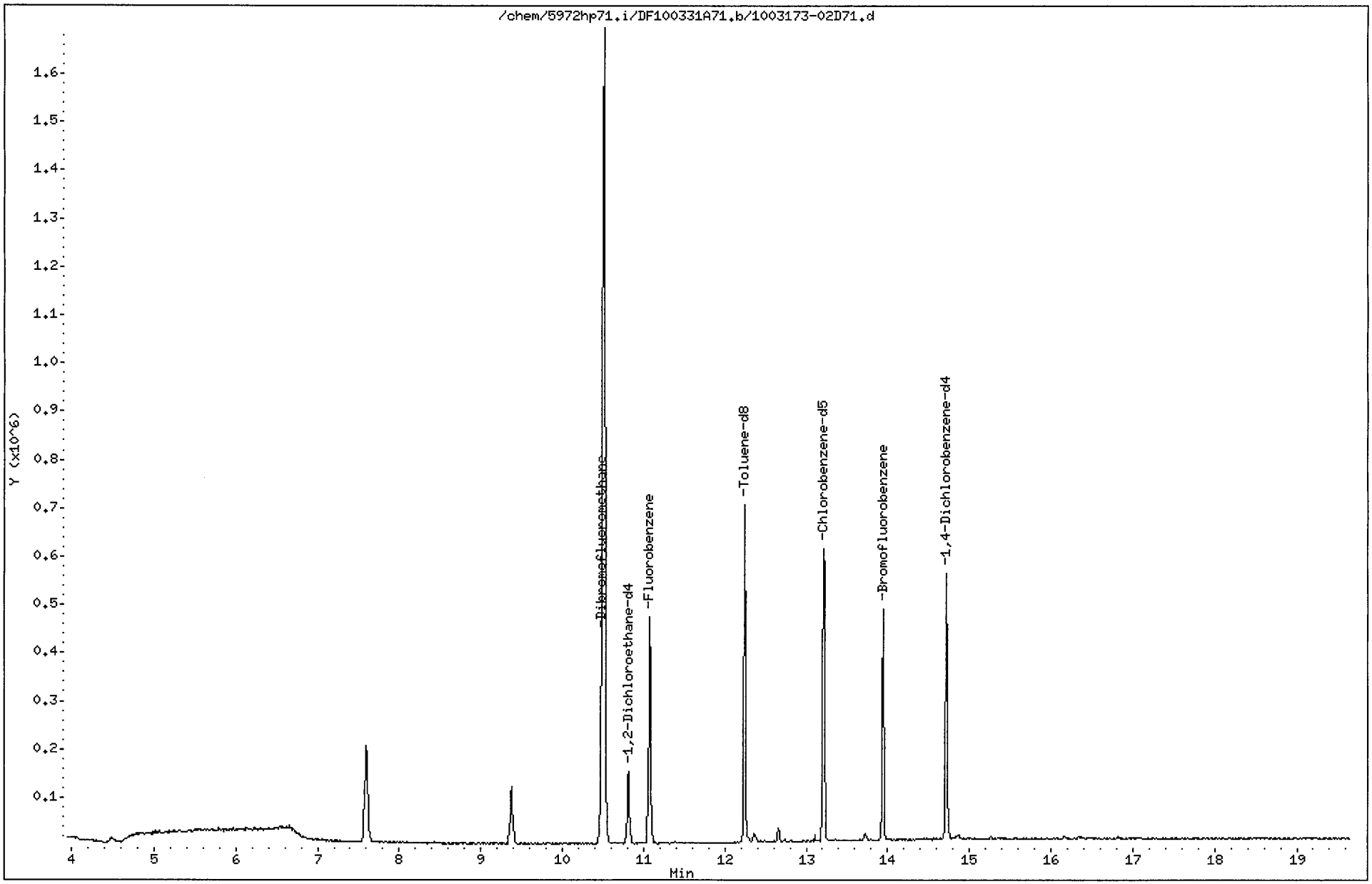
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 16.7

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	8.3	U
80-62-6	Methylmethacrylate	83	U
75-27-4	Bromodichloromethane	8.3	U
10061-01-5	cis-1,3-Dichloropropene	8.3	U
108-10-1	4-Methyl-2-pentanone	42	U
108-88-3	Toluene	1.1	DBJ
10061-02-6	trans-1,3-Dichloropropene	8.3	U
79-00-5	1,1,2-Trichloroethane	8.3	U
97-63-2	Ethylmethacrylate	83	U
127-18-4	Tetrachloroethene	0.0	DJ
142-28-9	1,3-Dichloropropane	8.3	U
591-78-6	2-hexanone	42	U
124-48-1	Dibromochloromethane	8.3	U
108-90-7	Chlorobenzene	8.3	U
630-20-6	1,1,1,2-Tetrachloroethane	8.3	U
100-41-4	Ethylbenzene	8.3	U
108-38-3	m,p-Xylene	17	U
95-47-6	o-Xylene	8.3	U
100-42-5	Styrene	8.3	U
75-25-2	Bromoform	8.3	U
96-18-4	1,2,3-Trichloropropane	8.3	U
79-34-5	1,1,2,2-Tetrachloroethane	8.3	U
110-57-6	trans-1,4-dichloro-2-butene	33	U
541-73-1	1,3-Dichlorobenzene	8.3	U
106-46-7	1,4-Dichlorobenzene	8.3	U
95-50-1	1,2-Dichlorobenzene	8.3	U
120-82-1	1,2,4-Trichlorobenzene	8.3	U
87-68-3	Hexachlorobutadiene	8.3	U
91-20-3	Naphthalene	8.3	U
1330-20-7	Xylene (total)	8.3	U
126-99-8	Chloroprene	8.3	U

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d
Date : 31-MAR-2010 22:04
Client ID: MW-2DL
Sample Info: 1003173-02DL:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d
Report Date: 08-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d
Lab Smp Id: 1003173-02DL Client Smp ID: MW-2DL
Inj Date : 31-MAR-2010 22:04
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-02DL:JAO
Misc Info : MW-2DL
Comment   :
Method   : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 08-Apr-2010 16:52 pkhare Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 17
Dil Factor: 16.67000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	16.67000	Dilution Factor
Vo	25.00000	volume of water
DF	16.67000	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	11.072	11.069	(1.000)	371882	125.000	
* 2 Chlorobenzene-d5	117	13.210	13.216	(1.000)	314869	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.717	14.714	(1.000)	125104	125.000	
$ 4 Dibromofluoromethane	113	10.481	10.478	(0.947)	126885	126.380	84
$ 5 1,2-Dichloroethane-d4	65	10.816	10.812	(0.977)	104222	139.632	93
$ 6 Toluene-d8	98	12.244	12.241	(0.927)	375533	110.193	73
$ 7 Bromofluorobenzene	95	13.939	13.936	(0.947)	168597	118.049	79
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	7.594	7.601	(0.686)	97446	133.813	89
18 Acetone	43	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d
Report Date: 08-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
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	8.432	8.428	(0.762)	1112	1.82451	1.2(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	9.377	9.374	(0.847)	130038	84.7084	56
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	10.028	10.024	(0.906)	763	0.90355	0.60(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	10.510	10.507	(0.949)	1170434	697.903	470
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	12.294	12.290	(0.931)	3484	1.68180	1.1(a)
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.					
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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d
Report Date: 08-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d

Date : 31-MAR-2010 22:04

Client ID: MW-2DL

Instrument: 5972hp71.i

Sample Info: 1003173-02DL:JAO

Purge Volume: 25.0

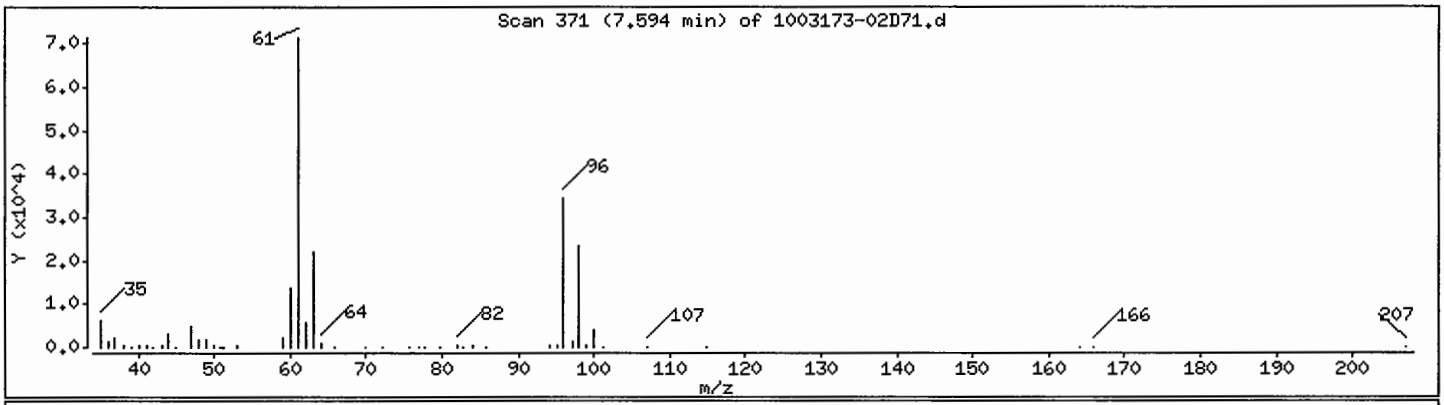
Operator: JAO

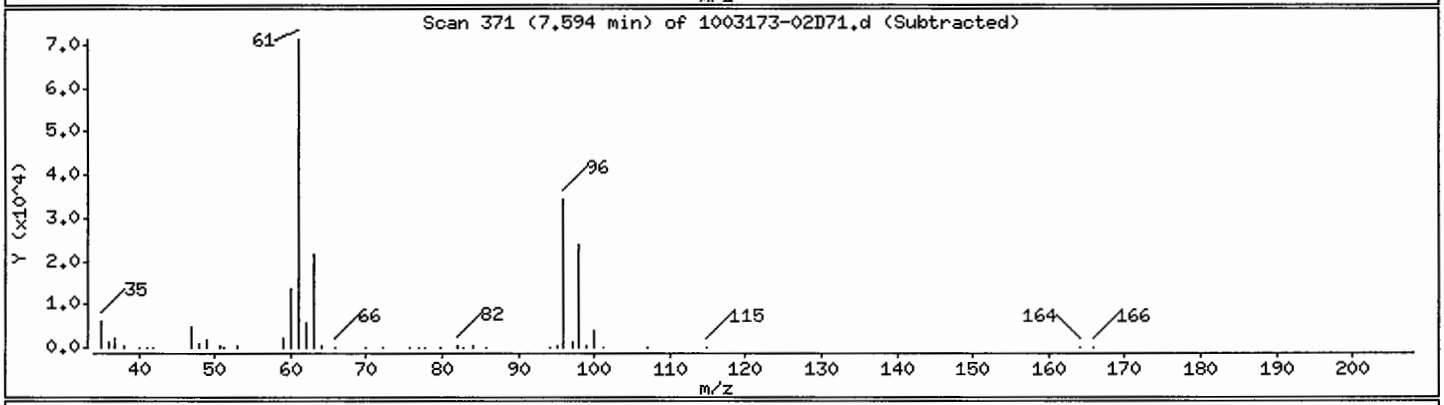
Column phase: SPB-624

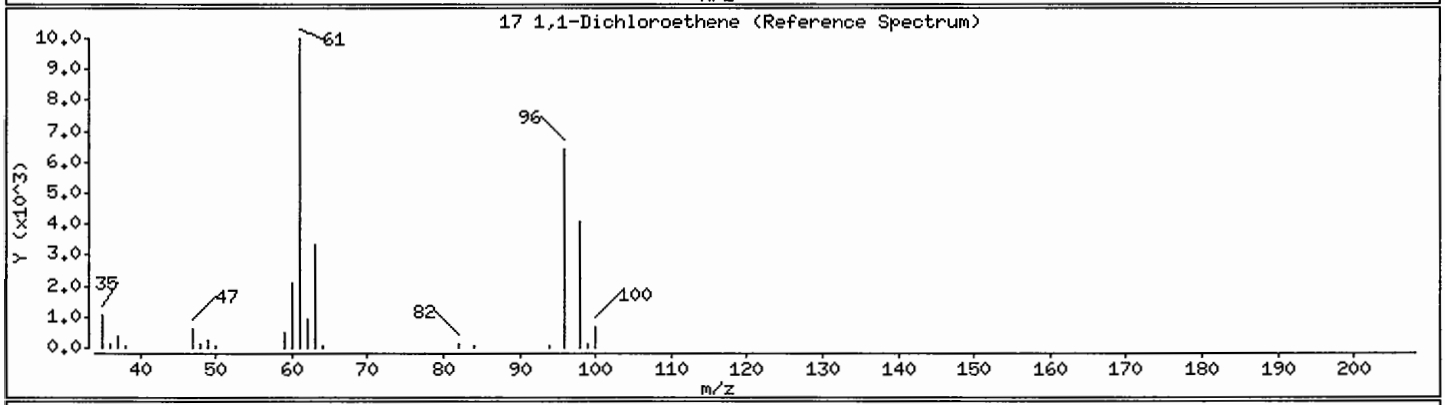
Column diameter: 0.32

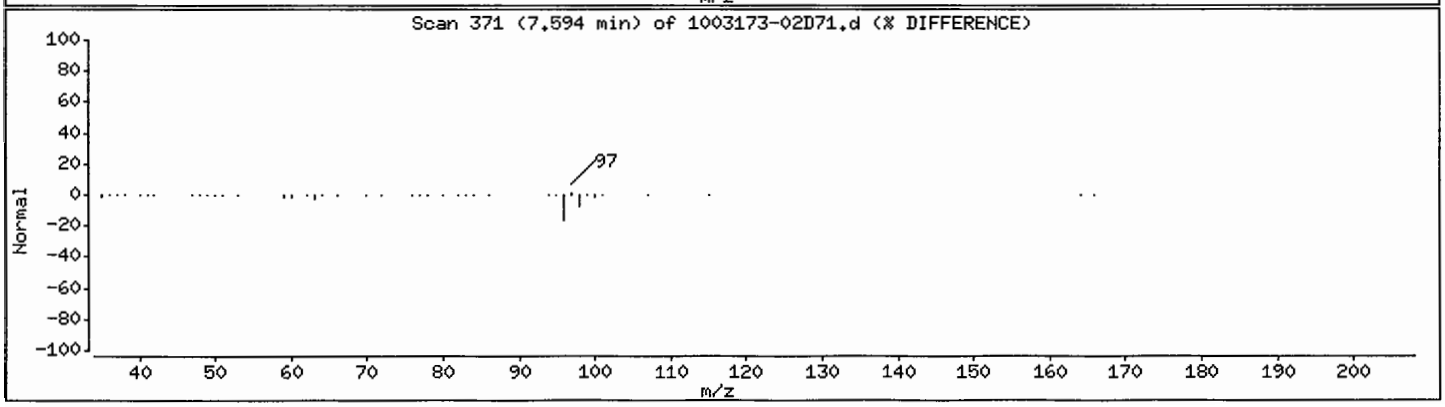
17 1,1-Dichloroethene

Concentration: 89 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d

Date : 31-MAR-2010 22:04

Client ID: MW-2DL

Instrument: 5972hp71.i

Sample Info: 1003173-02DL:JAO

Purge Volume: 25.0

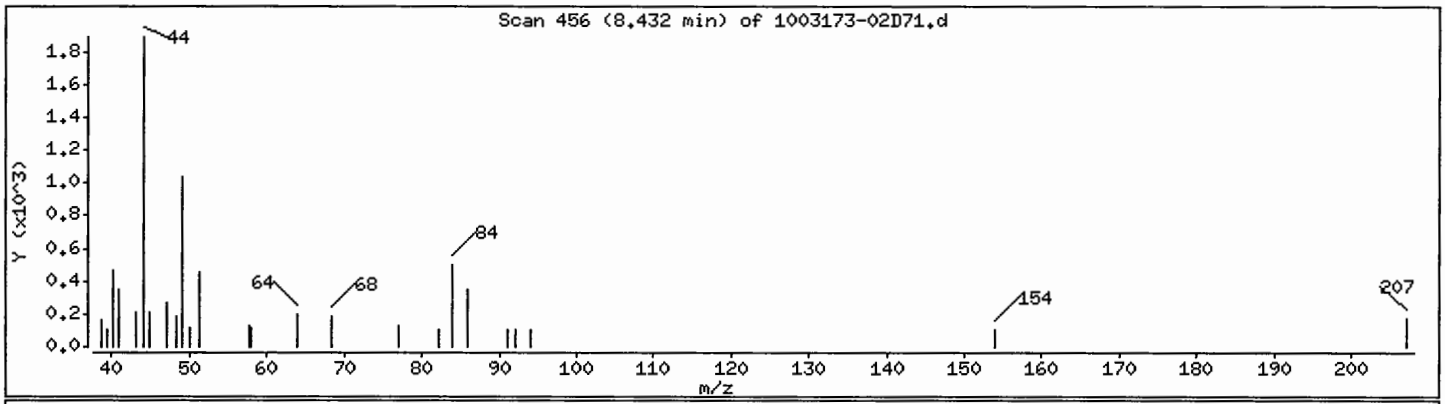
Operator: JAO

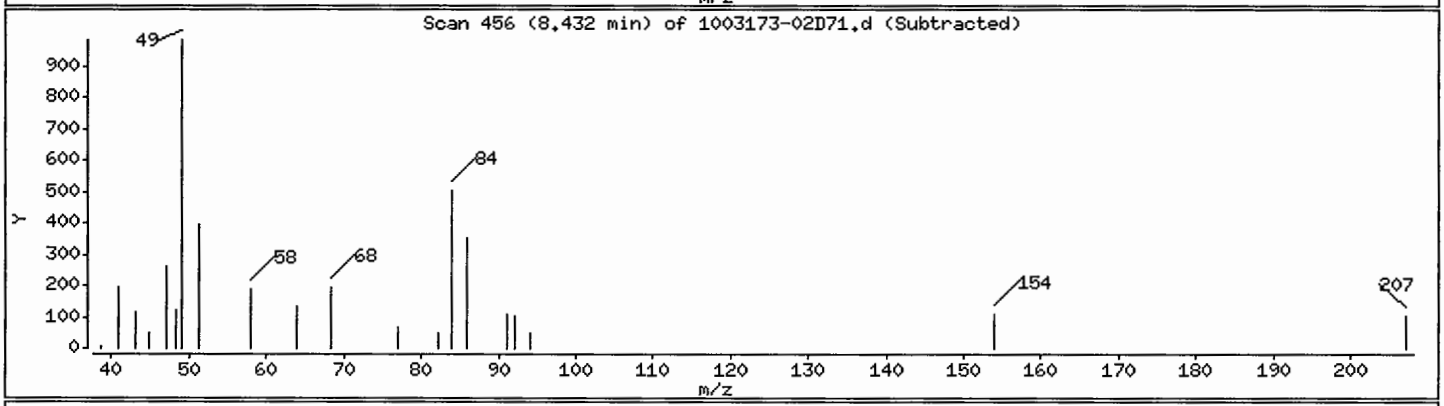
Column phase: SPB-624

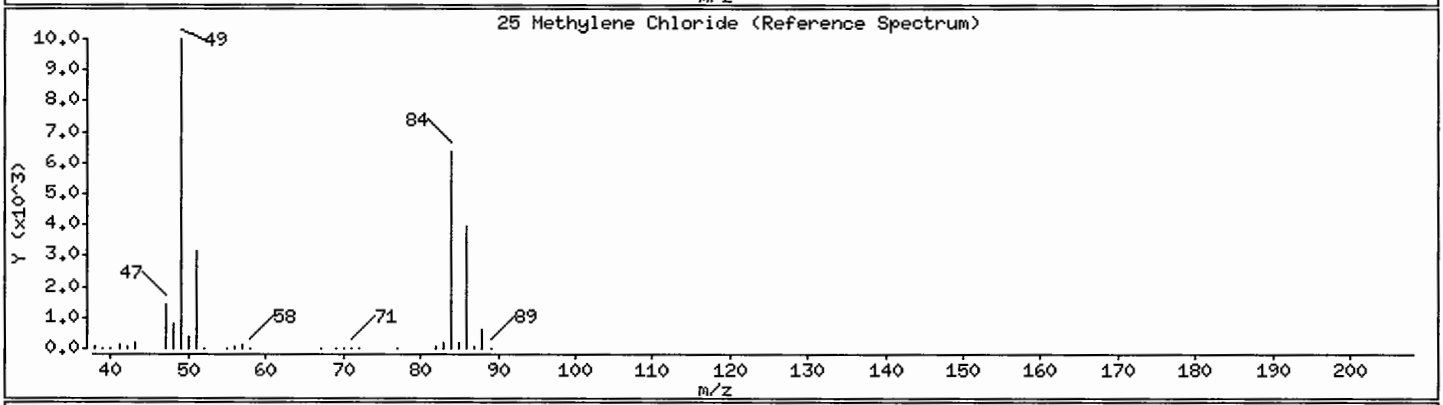
Column diameter: 0.32

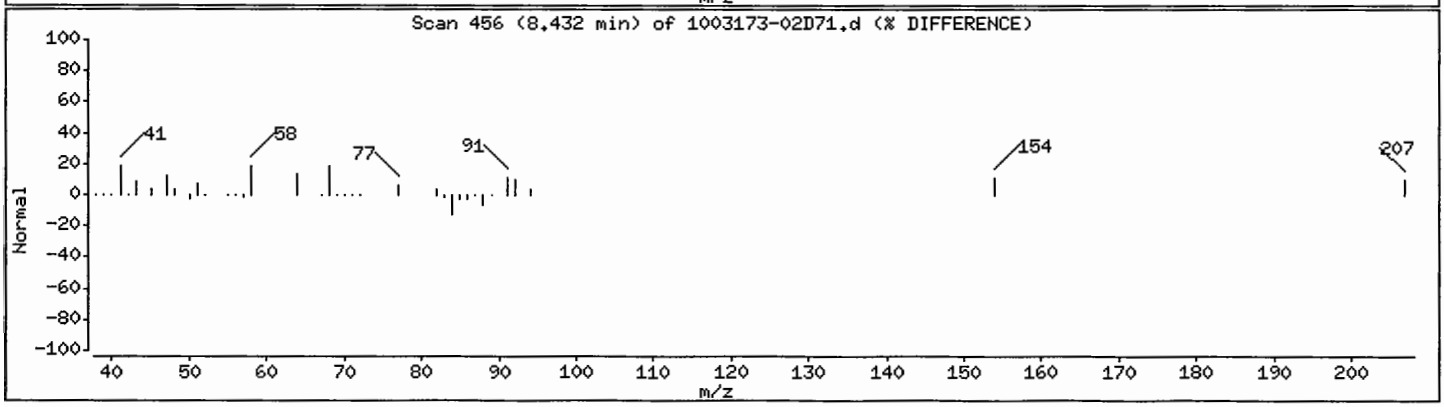
25 Methylene Chloride

Concentration: 1.2 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d

Date : 31-MAR-2010 22:04

Client ID: MW-2DL

Instrument: 5972hp71.i

Sample Info: 1003173-02DL:JAO

Purge Volume: 25.0

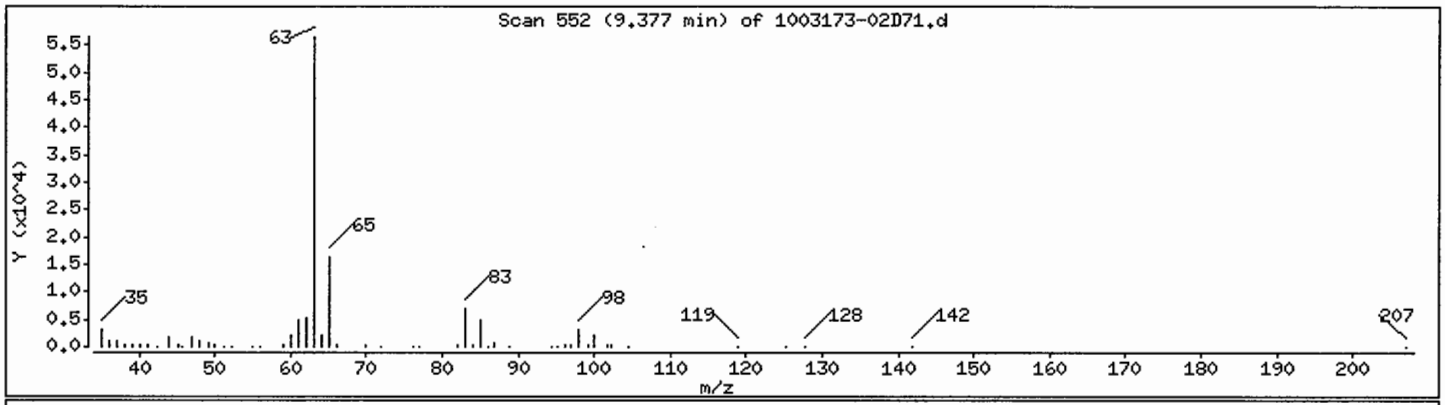
Operator: JAO

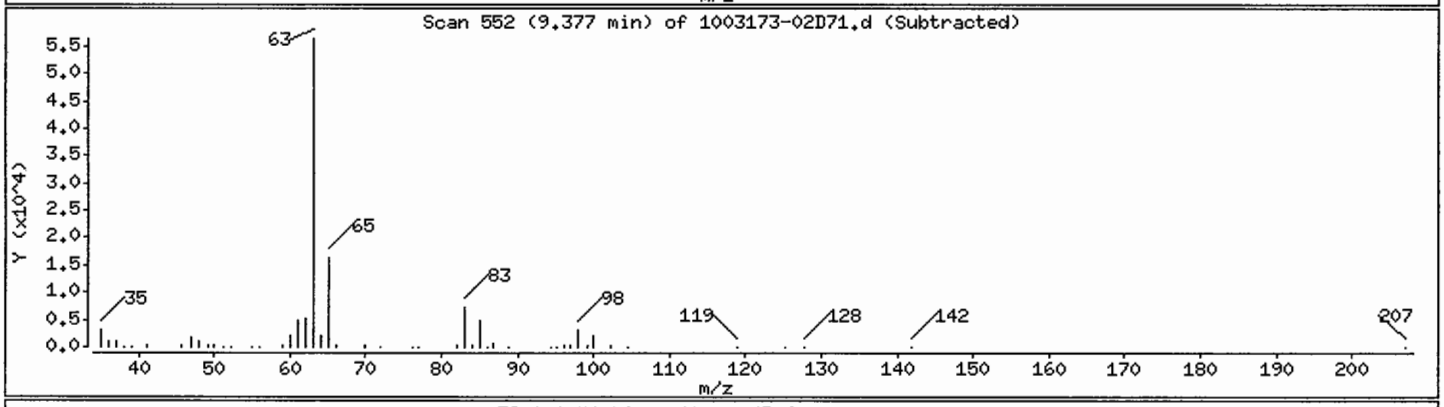
Column phase: SPB-624

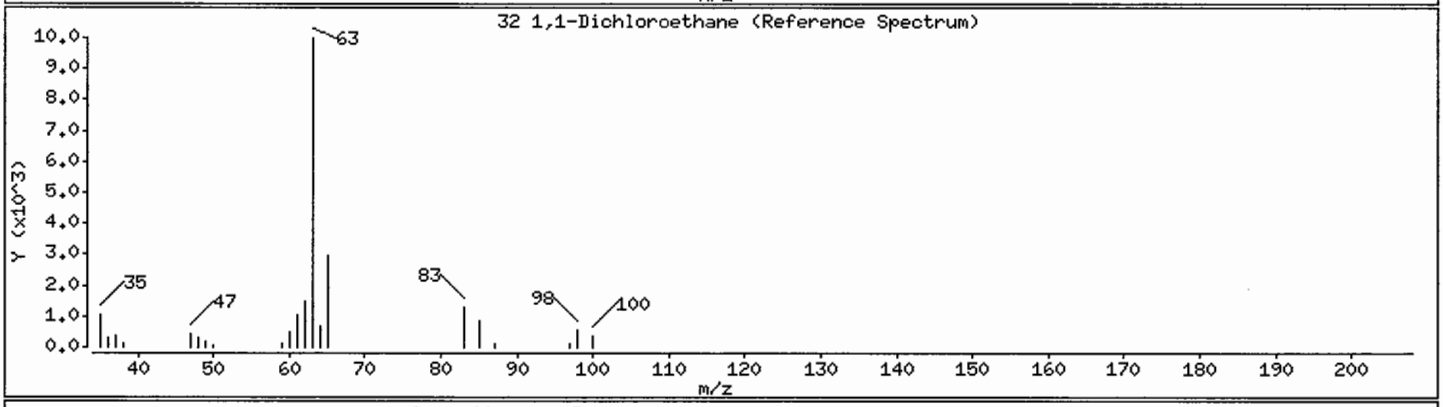
Column diameter: 0.32

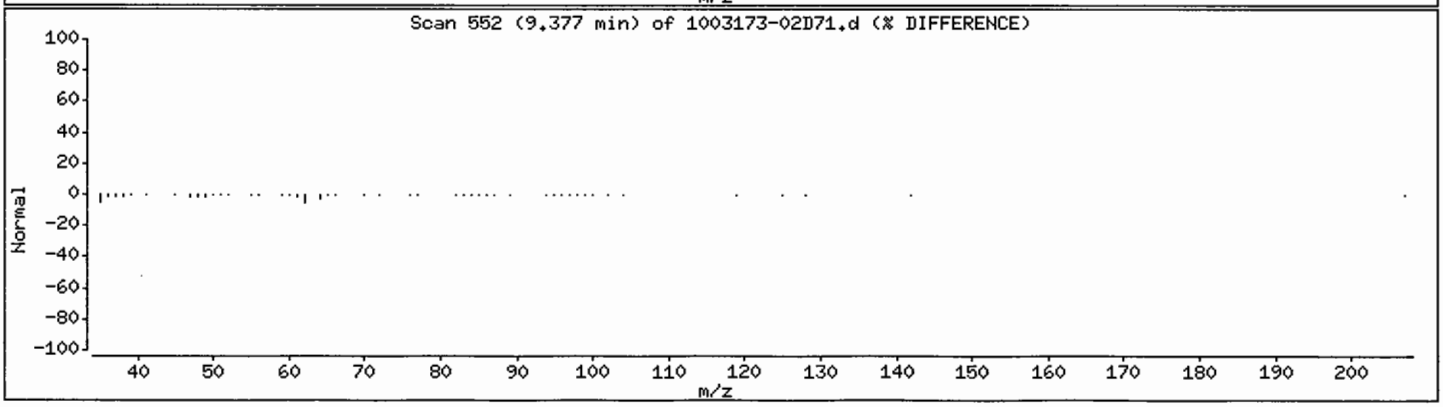
32 1,1-Dichloroethane

Concentration: 56 ug/L









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Date : 31-MAR-2010 22:04

Client ID: MW-2DL

Instrument: 5972hp71.i

Sample Info: 1003173-02DL:JAO

Purge Volume: 25.0

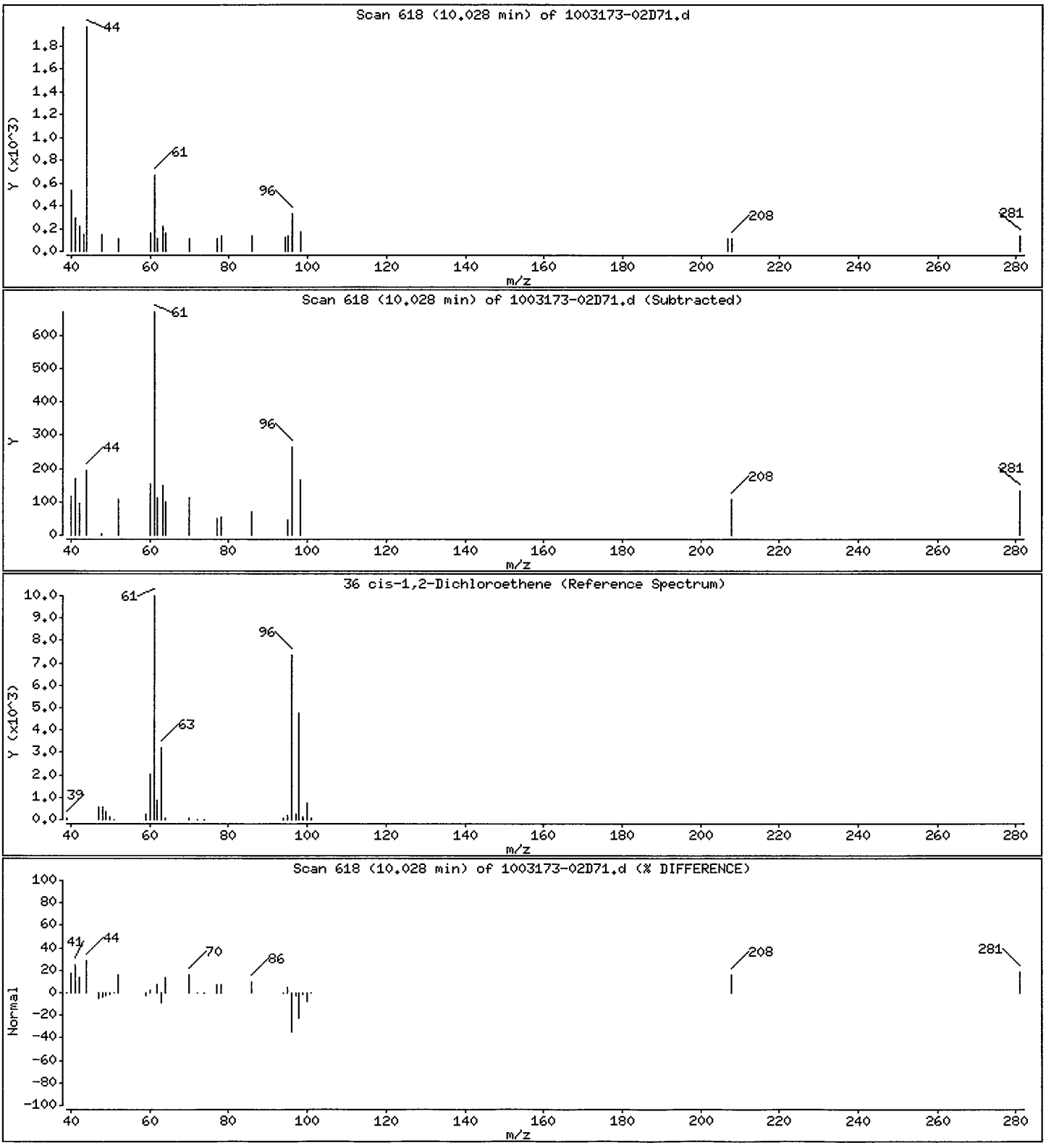
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

36 cis-1,2-Dichloroethene

Concentration: 0.60 ug/L



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Date : 31-MAR-2010 22:04

Client ID: MW-2DL

Instrument: 5972hp71.i

Sample Info: 1003173-02DL:JAO

Purge Volume: 25.0

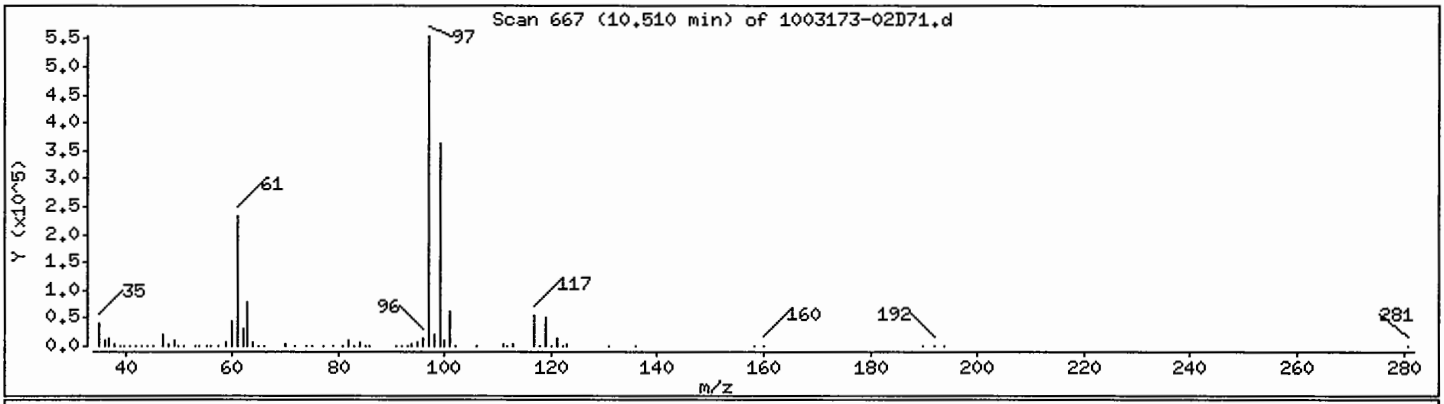
Operator: JAO

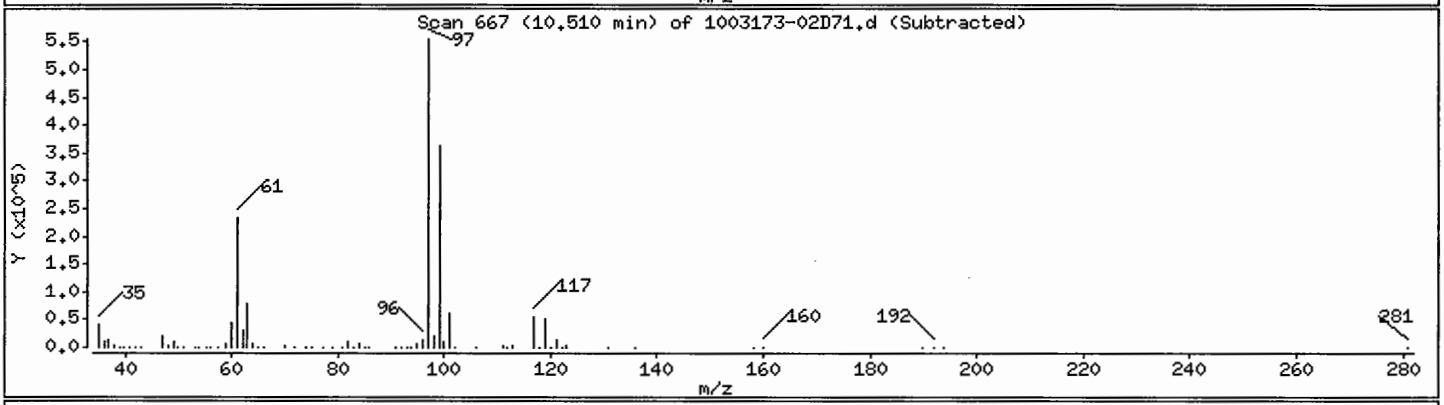
Column phase: SPB-624

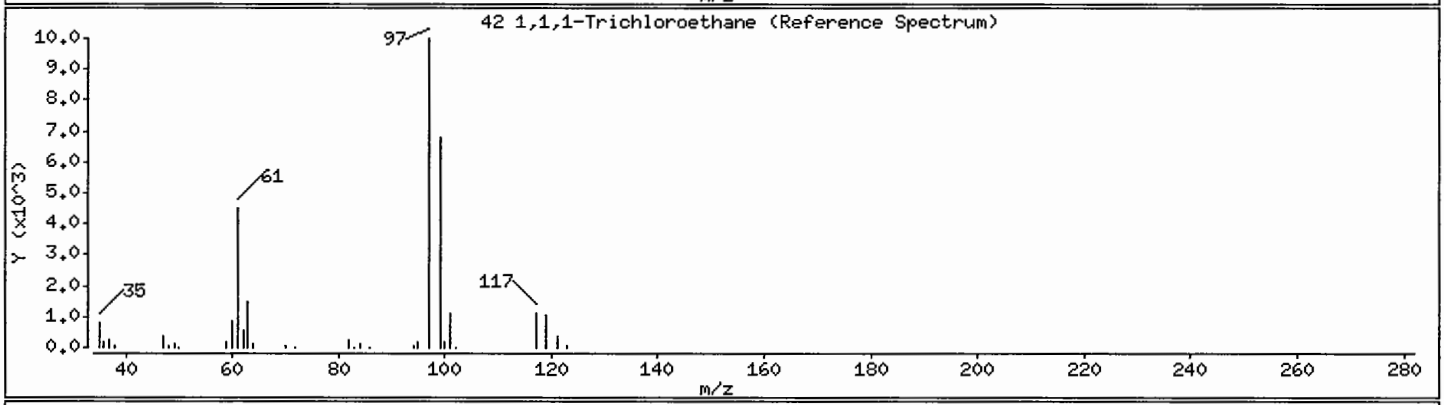
Column diameter: 0.32

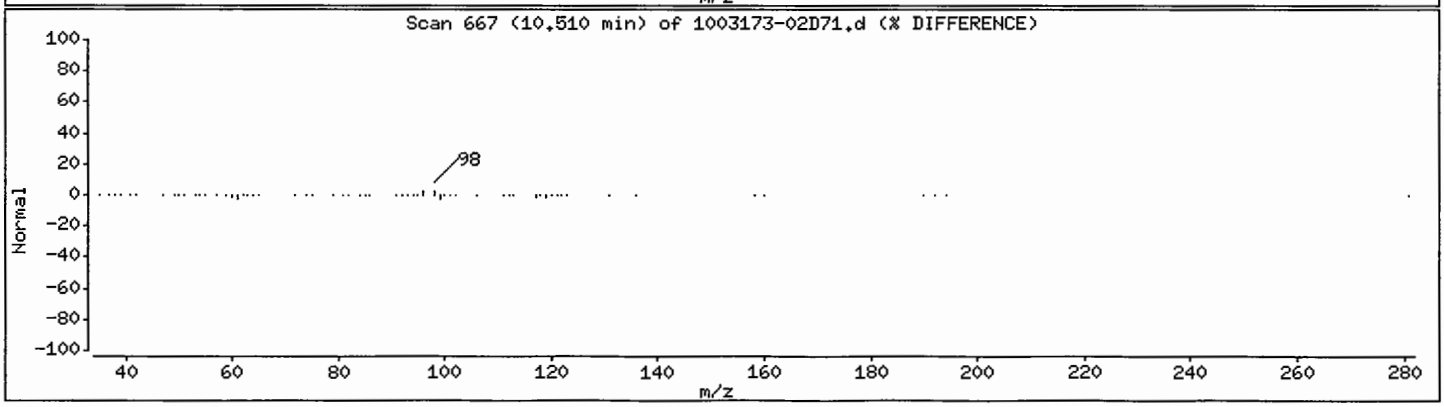
42 1,1,1-Trichloroethane

Concentration: 470 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d

Date : 31-MAR-2010 22:04

Client ID: MW-2DL

Instrument: 5972hp71.i

Sample Info: 1003173-02DL:JAO

Purge Volume: 25.0

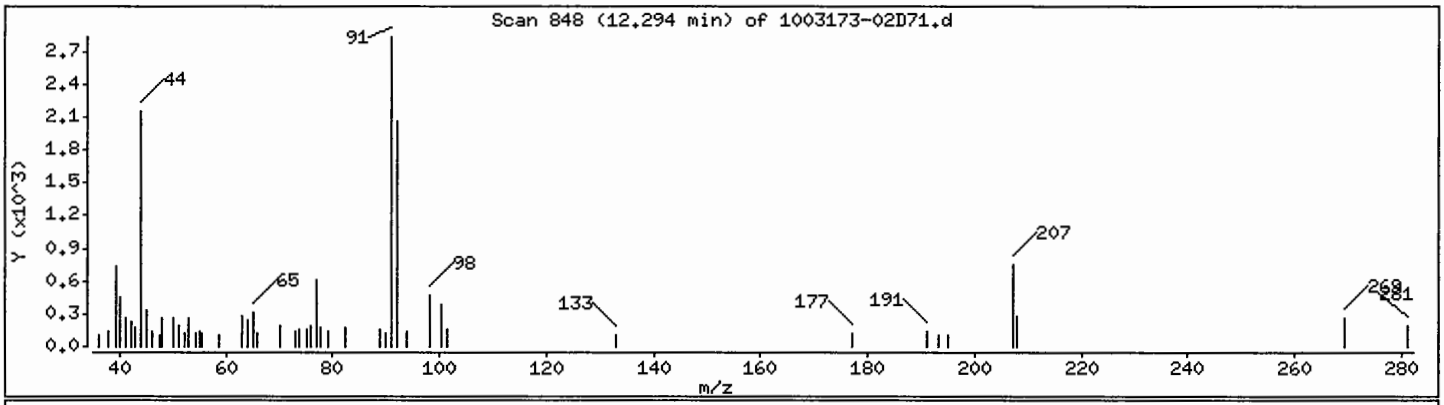
Operator: JAO

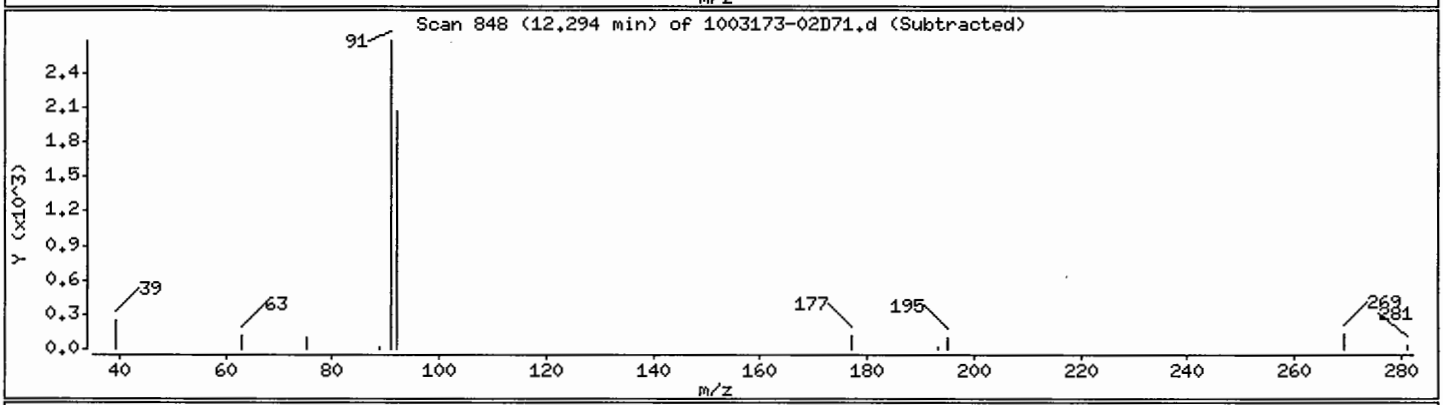
Column phase: SPB-624

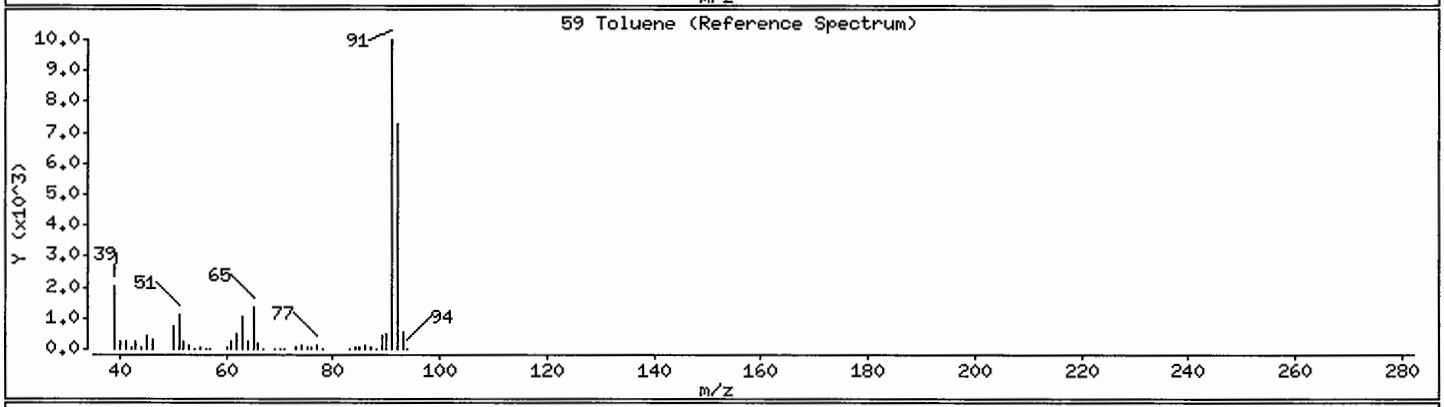
Column diameter: 0.32

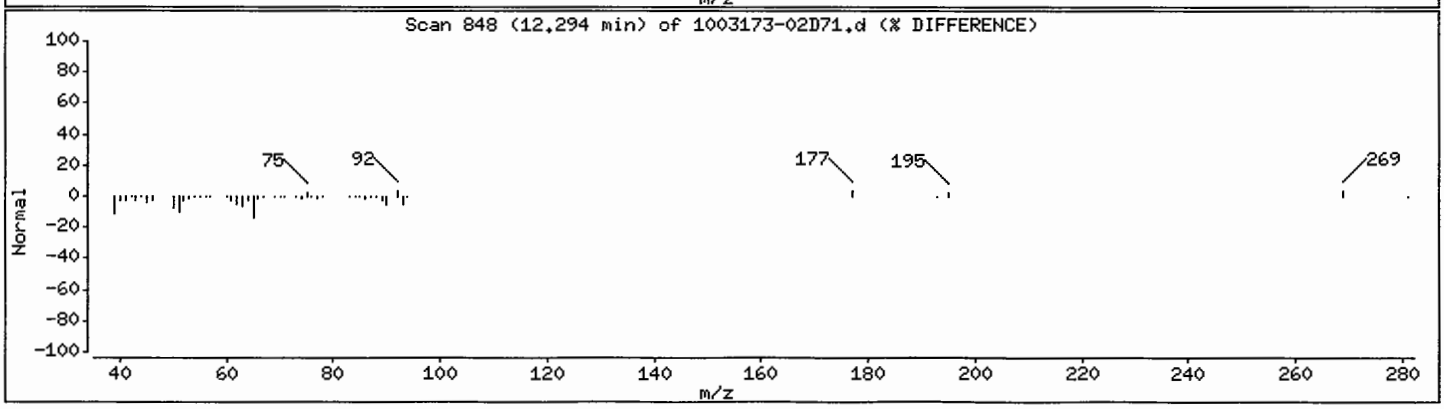
59 Toluene

Concentration: 1.1 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-02D71.d

Date : 31-MAR-2010 22:04

Client ID: MW-2DL

Instrument: 5972hp71.i

Sample Info: 1003173-02DL:JAO

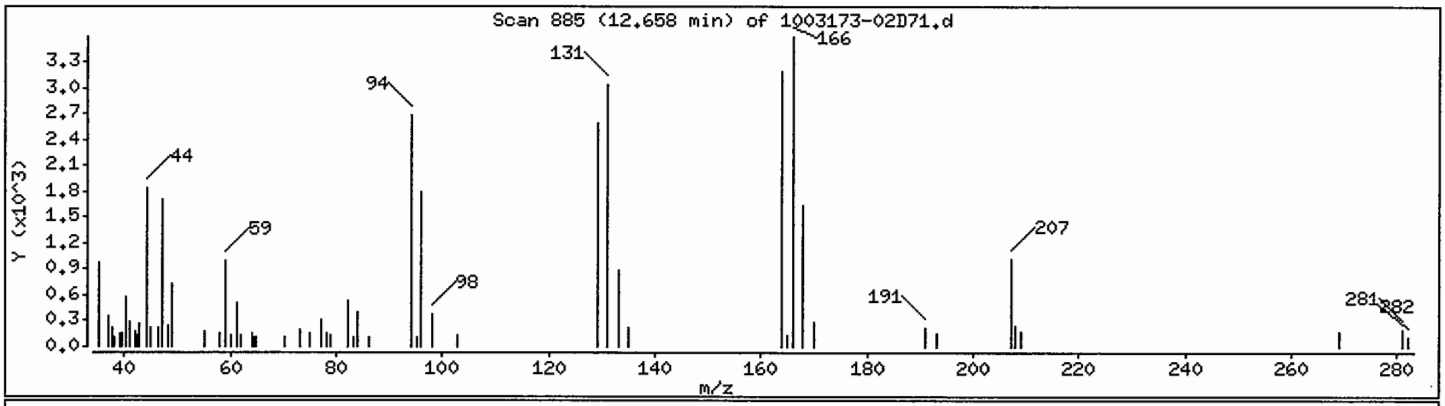
Purge Volume: 25.0

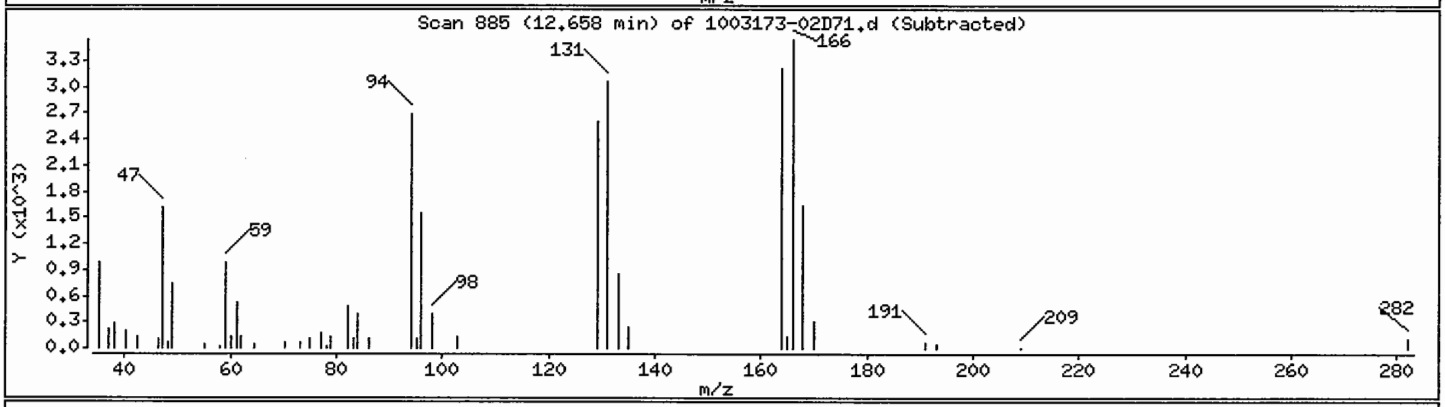
Operator: JAO

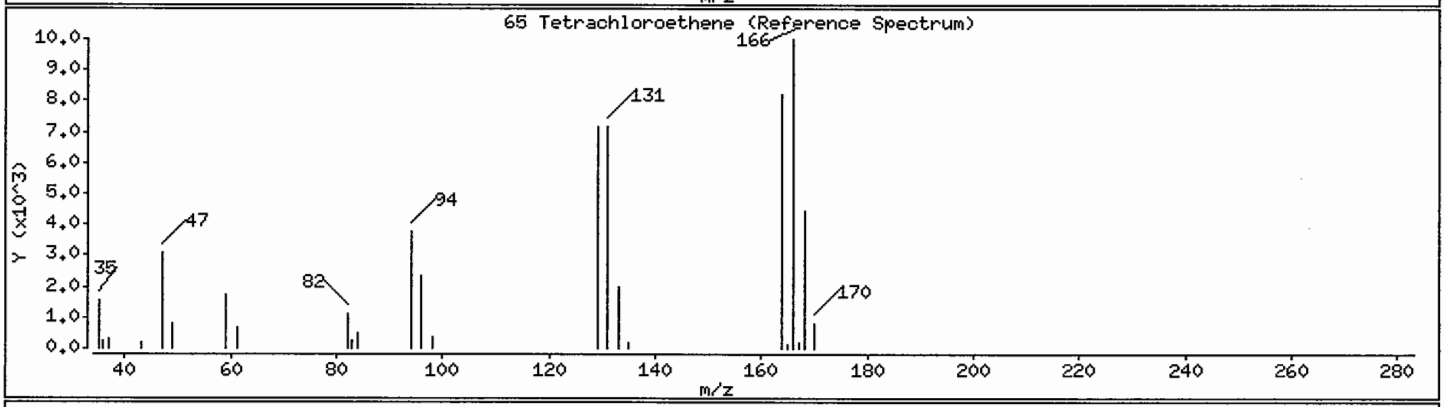
Column phase: SPB-624

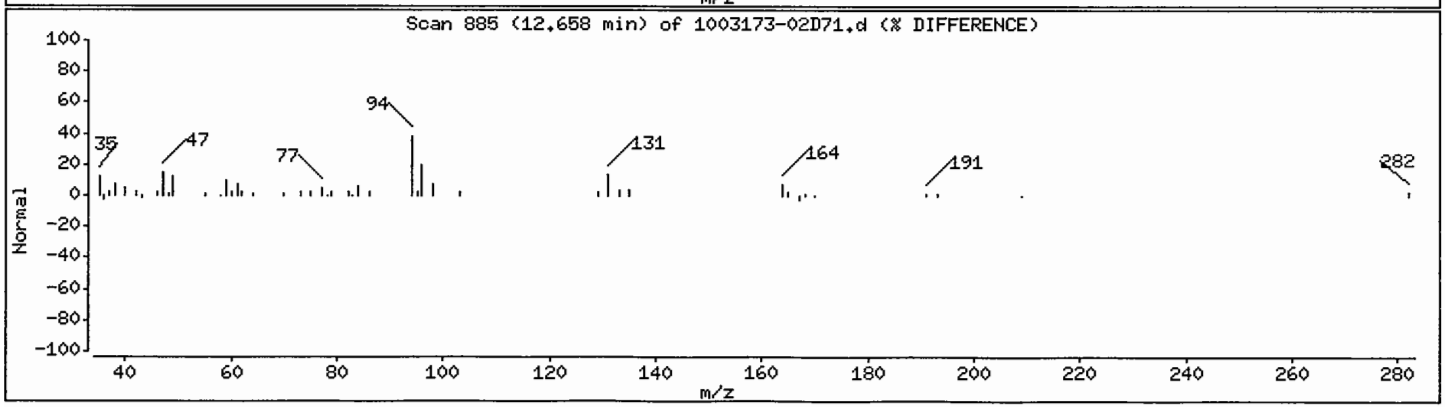
Column diameter: 0.32

65 Tetrachloroethene









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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-01

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.23	J
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	2.6	
75-69-4	Trichlorofluoromethane	0.50	U
107-02-8	Acrolein	5.0	U
75-35-4	1,1-Dichloroethene	0.072	J
74-88-4	Iodomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
67-64-1	Acetone	2.5	U
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.21	JB
156-60-5	trans-1,2-Dichloroethene	0.29	J
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	7.8	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	21	
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	0.11	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	2.3	
78-87-5	1,2-Dichloropropane	0.31	J

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-01

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0171

Level: (low/med) LOW Date Received: 03/19/10

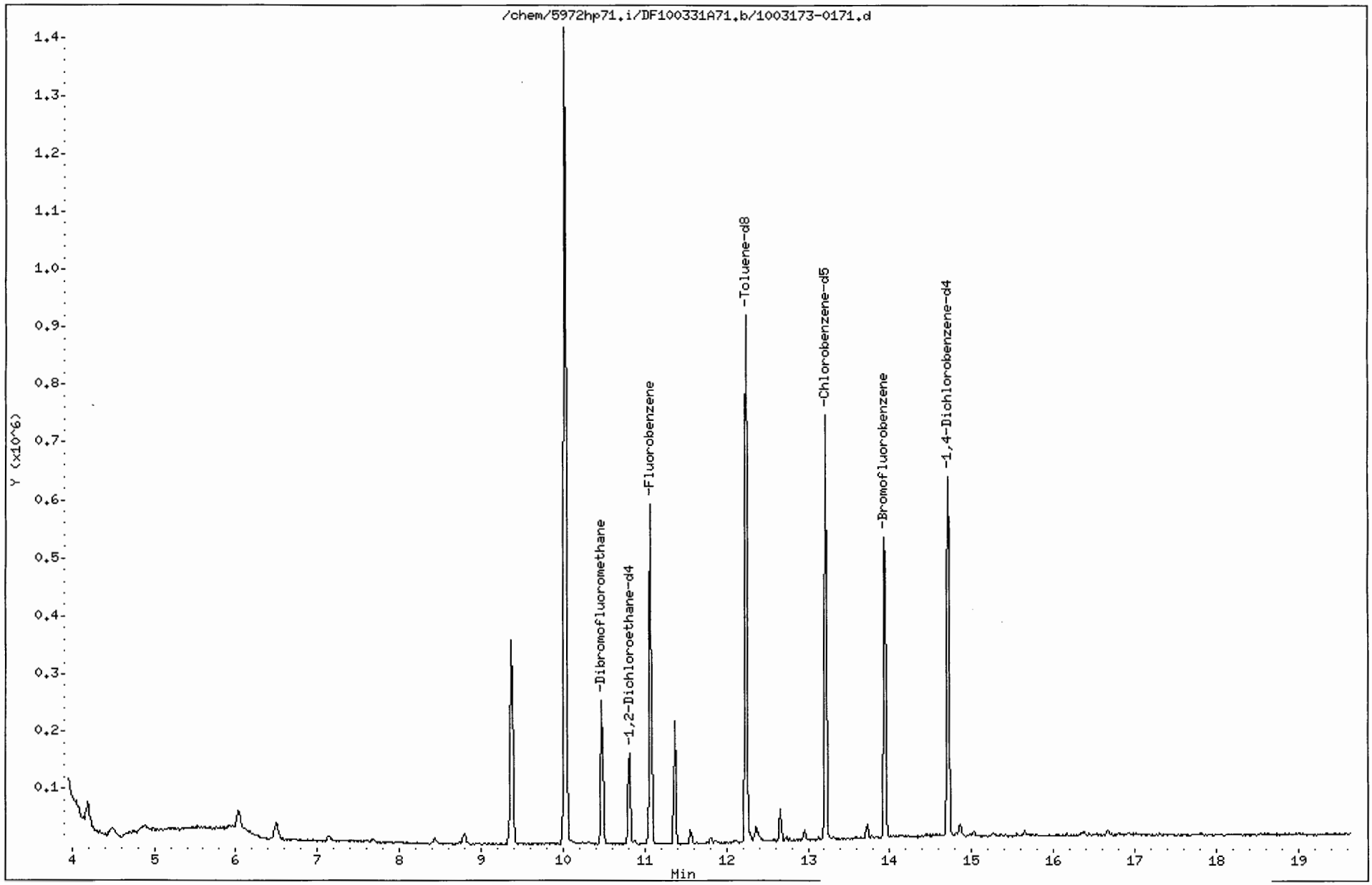
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.081	JB
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	0.13	J
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	0.23	JB
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d
Date : 31-MAR-2010 16:40
Client ID: MW-3
Instrument: 5972hp71.i
Sample Info: 1003173-01:JA0
Purge Volume: 25.0
Operator: JA0
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0171.d
Lab Smp Id: 1003173-01 Client Smp ID: MW-3
Inj Date : 31-MAR-2010 16:40
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-01:JAO
Misc Info : MW-3
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	11.068	11.069	(1.000)	501651	125.000	
* 2 Chlorobenzene-d5	117	13.216	13.216	(1.000)	402930	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.714	14.714	(1.000)	151833	125.000	
$ 4 Dibromofluoromethane	113	10.477	10.478	(0.947)	151035	111.519	4.5
$ 5 1,2-Dichloroethane-d4	65	10.812	10.812	(0.977)	107421	105.990	4.2
$ 6 Toluene-d8	98	12.241	12.241	(0.926)	497938	114.178	4.6
$ 7 Bromofluorobenzene	95	13.935	13.936	(0.947)	193666	111.730	4.5
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	4.911	4.921	(0.444)	6222	5.71729	0.23(a)
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	6.034	6.034	(0.545)	44106	64.4019	2.6
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	7.610	7.601	(0.688)	1759	1.79062	0.072(a)
18 Acetone	43	Compound Not Detected.					

4-7-10

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
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	8.428	8.428	(0.761)	4389	5.33839	0.21(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	8.802	8.793	(0.795)	8250	7.36096	0.29(a)
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	9.374	9.374	(0.847)	405567	195.850	7.8
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	10.024	10.024	(0.906)	588142	516.313	21
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	10.871	10.881	(0.982)	3712	2.85345	0.11(a)
49 Trichloroethene	130	11.374	11.374	(1.028)	56202	58.1761	2.3
51 1,2-Dichloropropane	63	11.561	11.561	(1.044)	6800	7.75018	0.31(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	12.290	12.290	(0.930)	5368	2.02493	0.081(a)
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	12.664	12.665	(0.958)	10746	3.29145	0.13(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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d
Report Date: 07-Apr-2010 16:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
79	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81	1,2,3-Trichloropropane	110	Compound Not Detected.					
80	trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92	1,3-Dichlorobenzene	146	Compound Not Detected.					
93	1,4-Dichlorobenzene	146	Compound Not Detected.					
95	1,2-Dichlorobenzene	146	Compound Not Detected.					
97	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98	Hexachlorobutadiene	225	Compound Not Detected.					
99	Naphthalene	128	16.674	16.665	(1.133)	8491	5.64778	0.23(a)
M 102	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

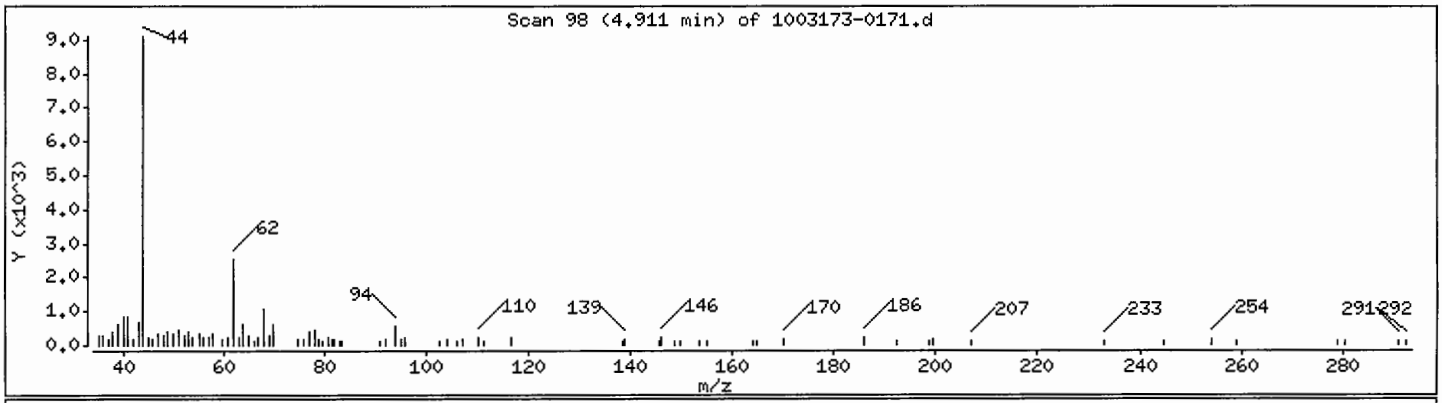
Client ID: MW-3 Instrument: 5972hp71.i

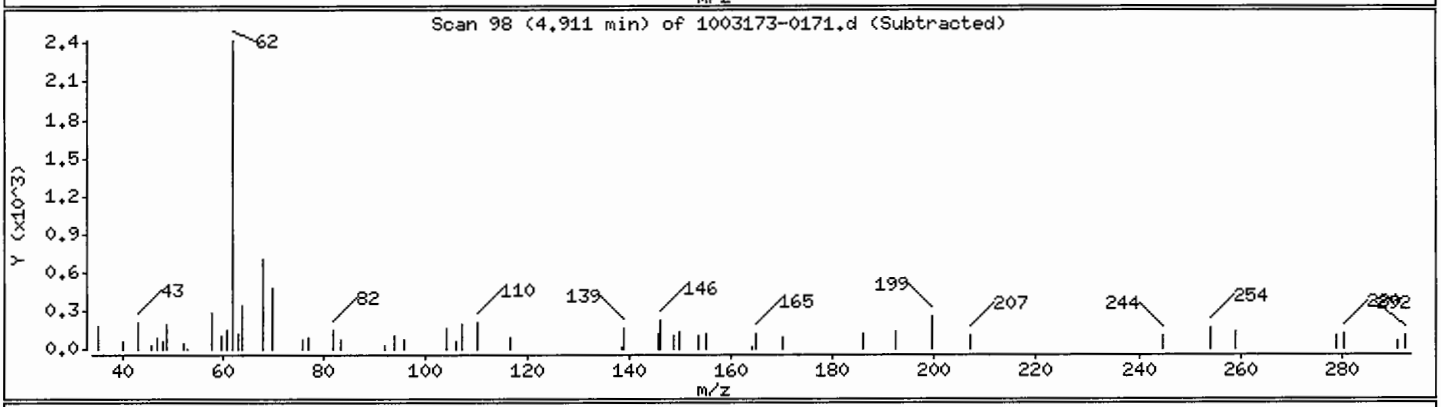
Sample Info: 1003173-01:JAO

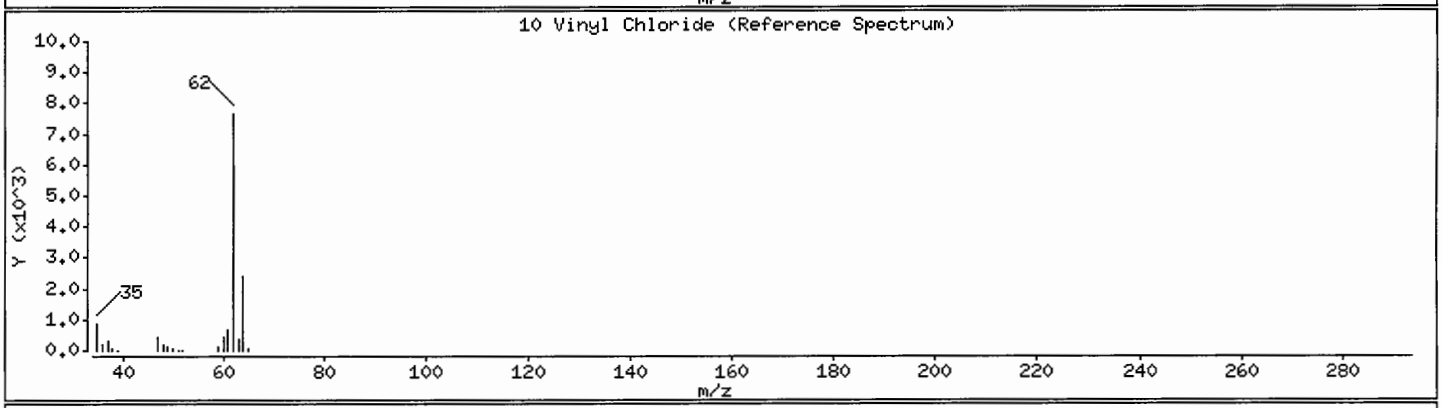
Purge Volume: 25.0 Operator: JAO

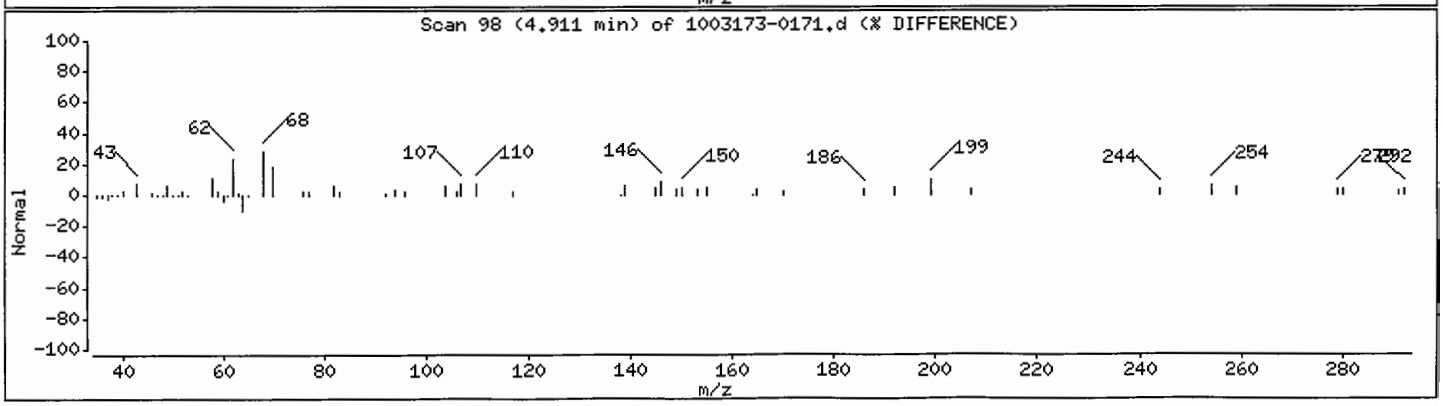
Column phase: SPB-624 Column diameter: 0.32

10 Vinyl Chloride Concentration: 0.23 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

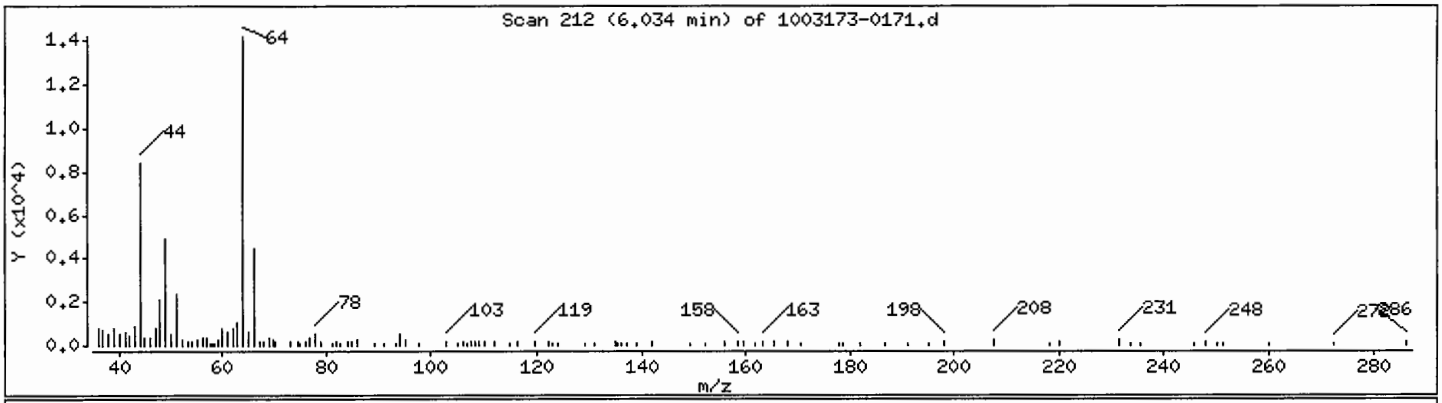
Client ID: MW-3 Instrument: 5972hp71.i

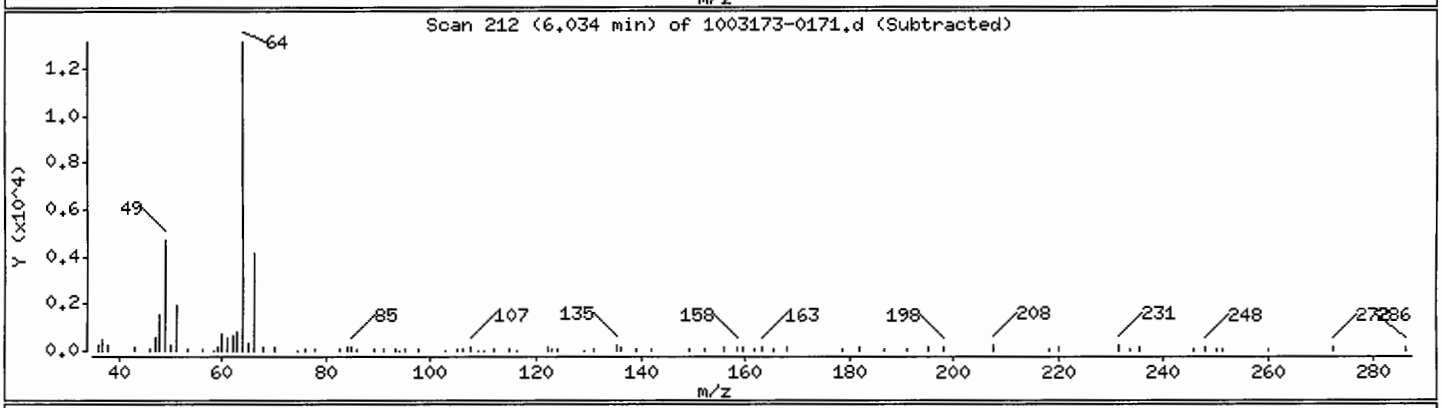
Sample Info: 1003173-01:JAO

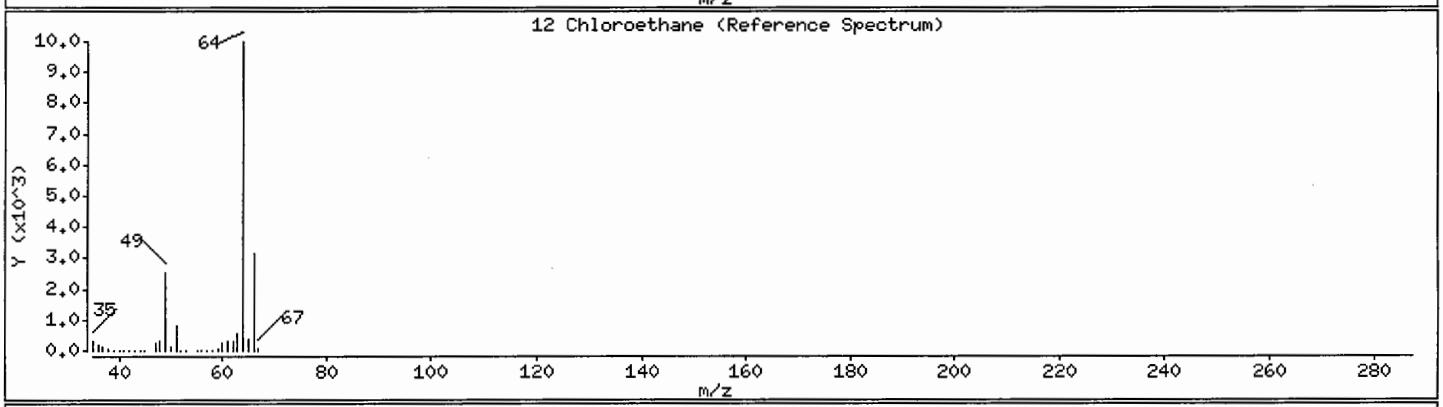
Purge Volume: 25.0 Operator: JAO

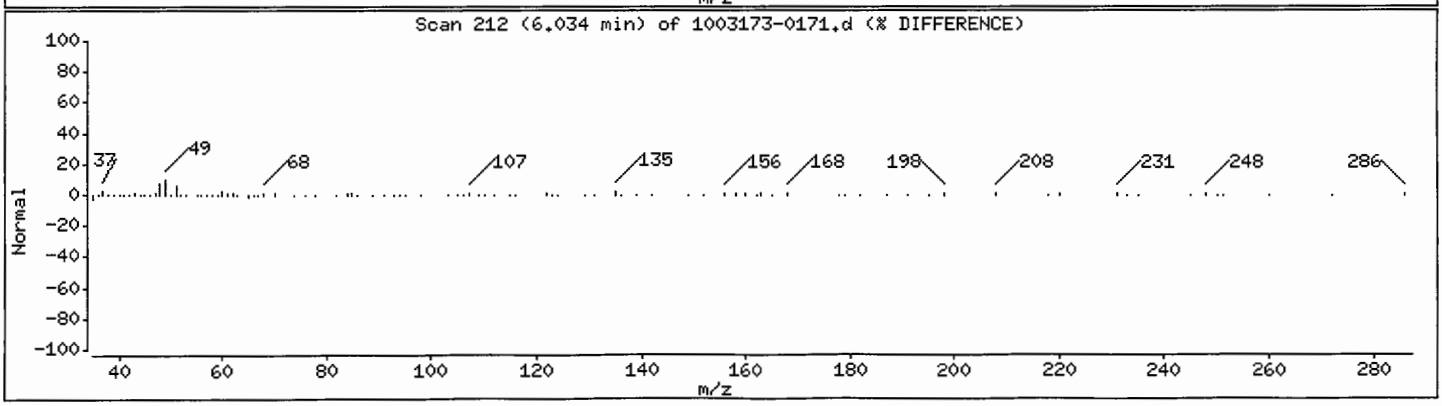
Column phase: SPB-624 Column diameter: 0.32

12 Chloroethane Concentration: 2.6 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

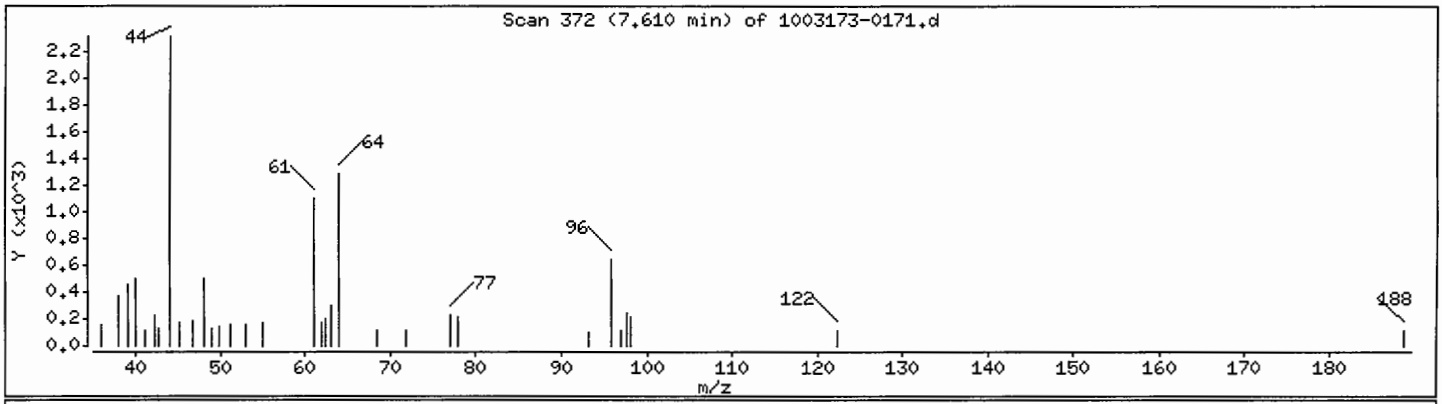
Client ID: MW-3 Instrument: 5972hp71.i

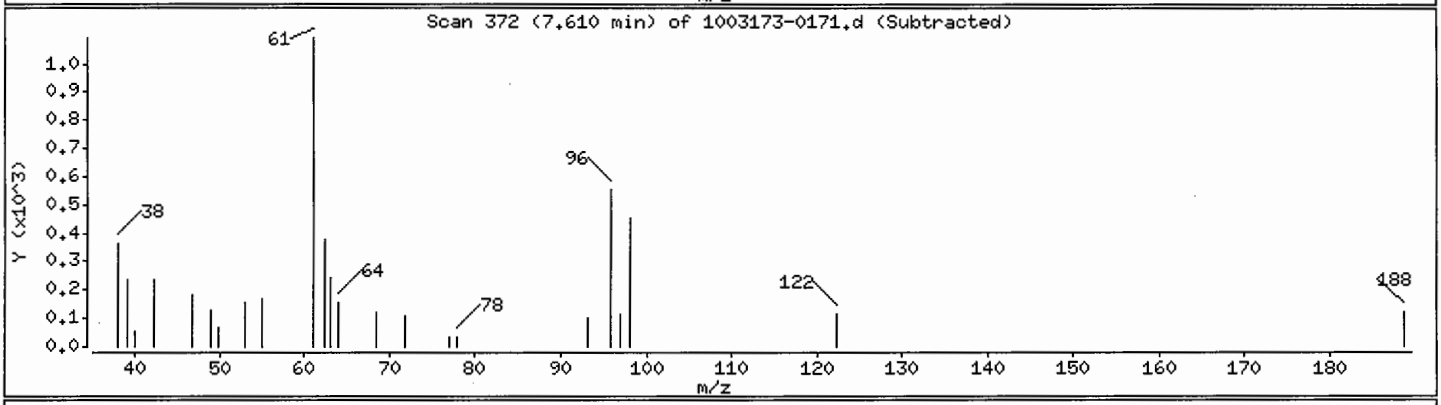
Sample Info: 1003173-01:JAO

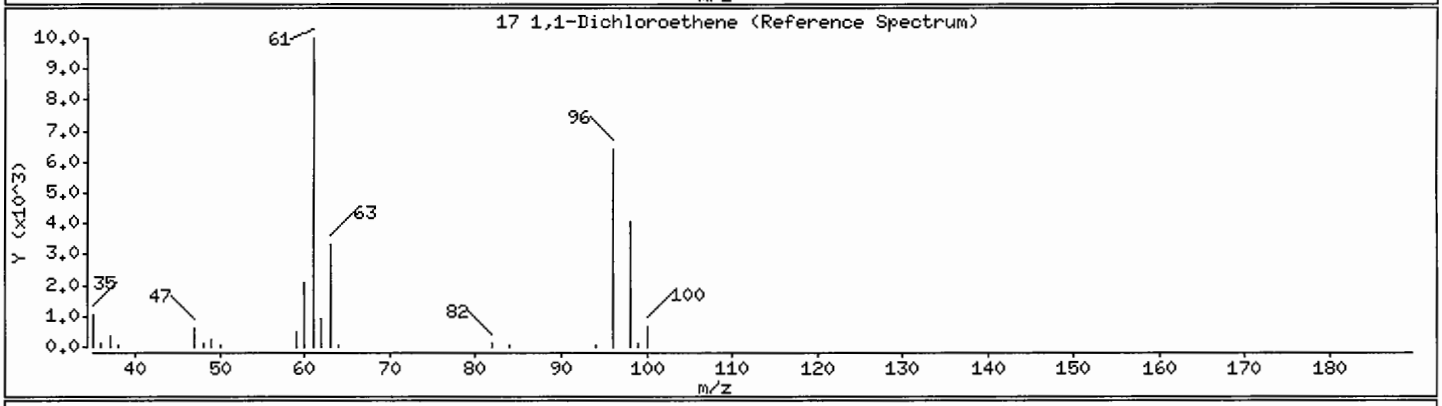
Purge Volume: 25.0 Operator: JAO

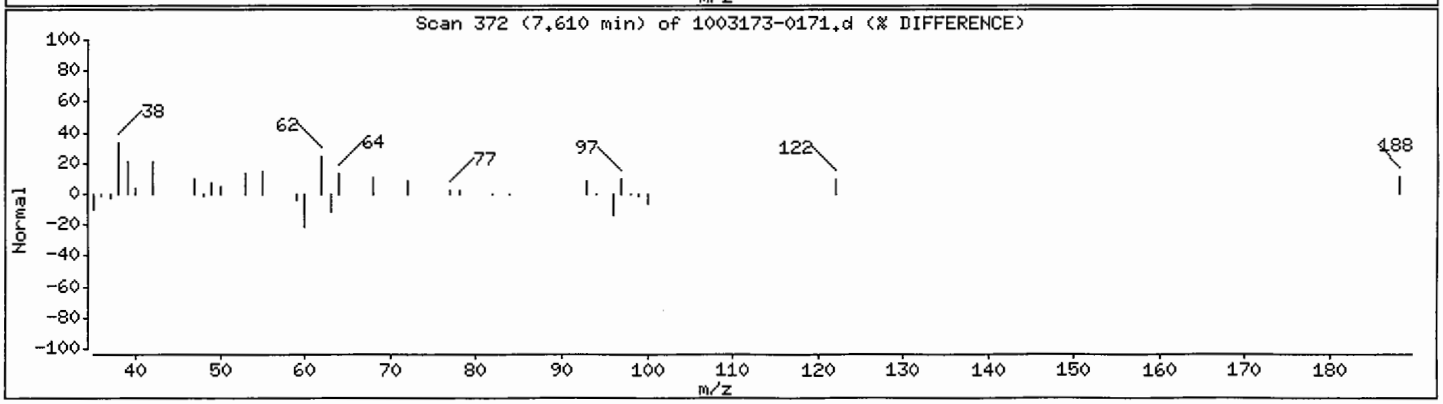
Column phase: SPB-624 Column diameter: 0.32

17 1,1-Dichloroethene Concentration: 0.072 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

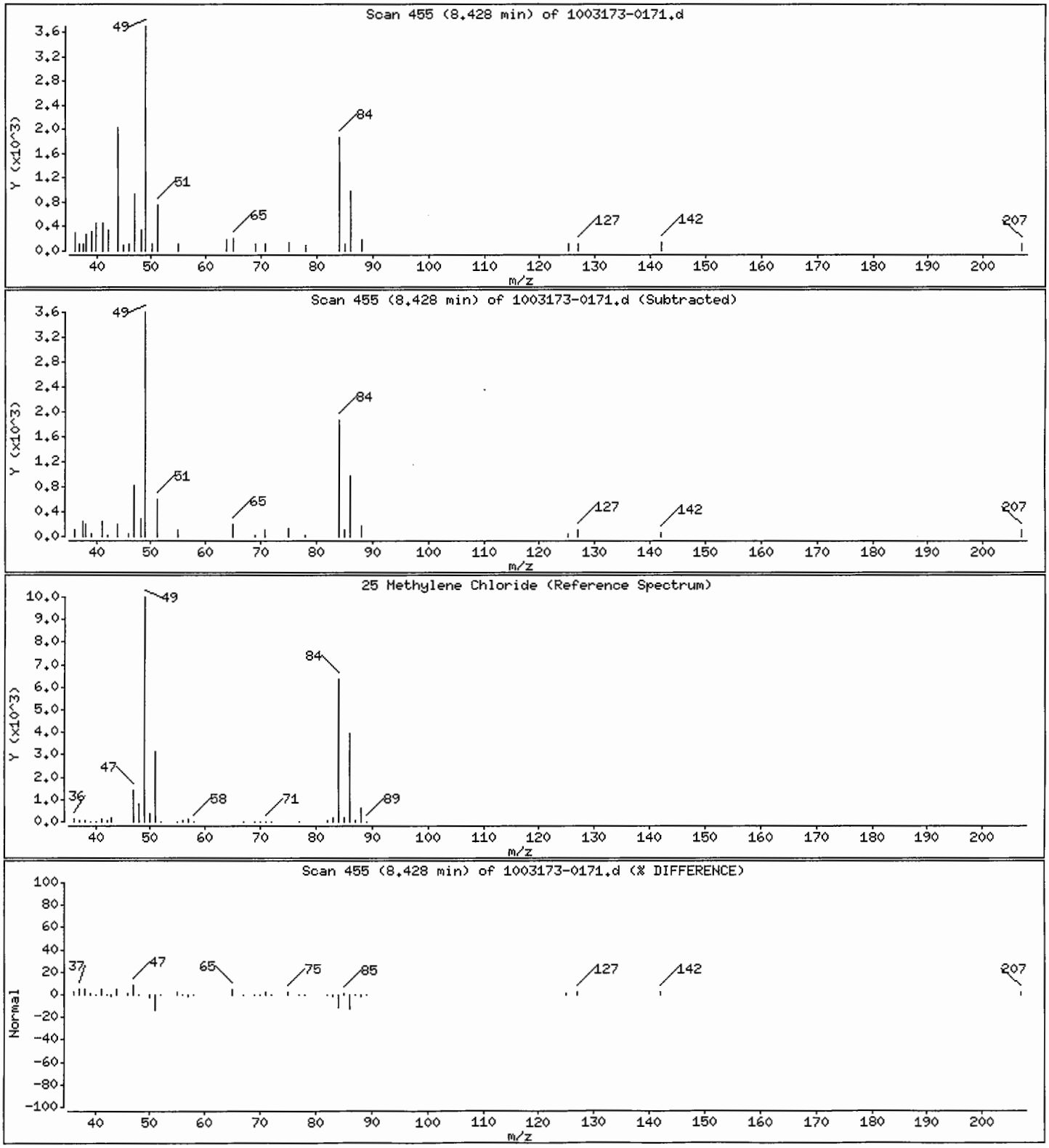
Client ID: MW-3 Instrument: 5972hp71.i

Sample Info: 1003173-01:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

25 Methylene Chloride Concentration: 0.21 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

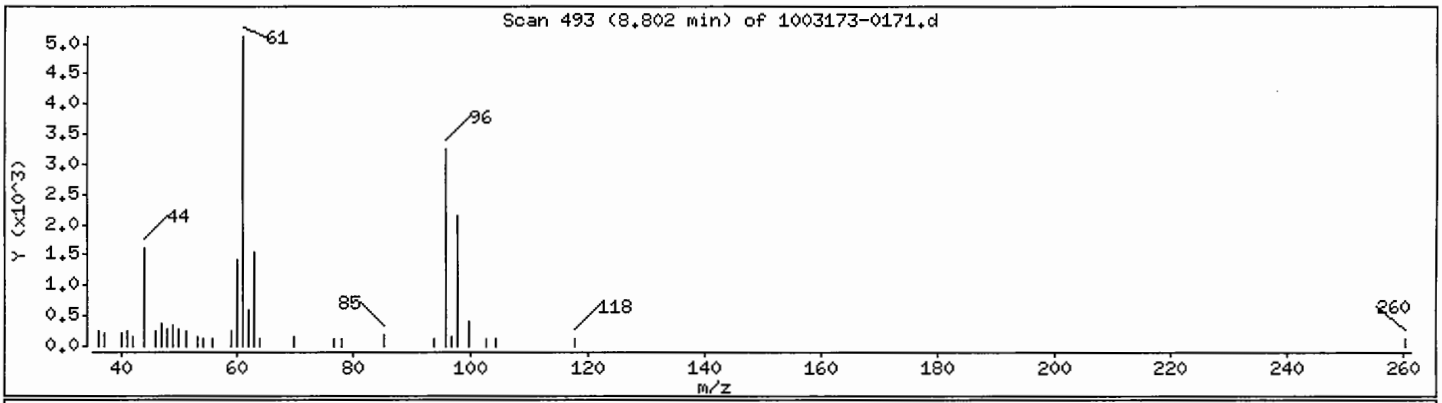
Client ID: MW-3 Instrument: 5972hp71.i

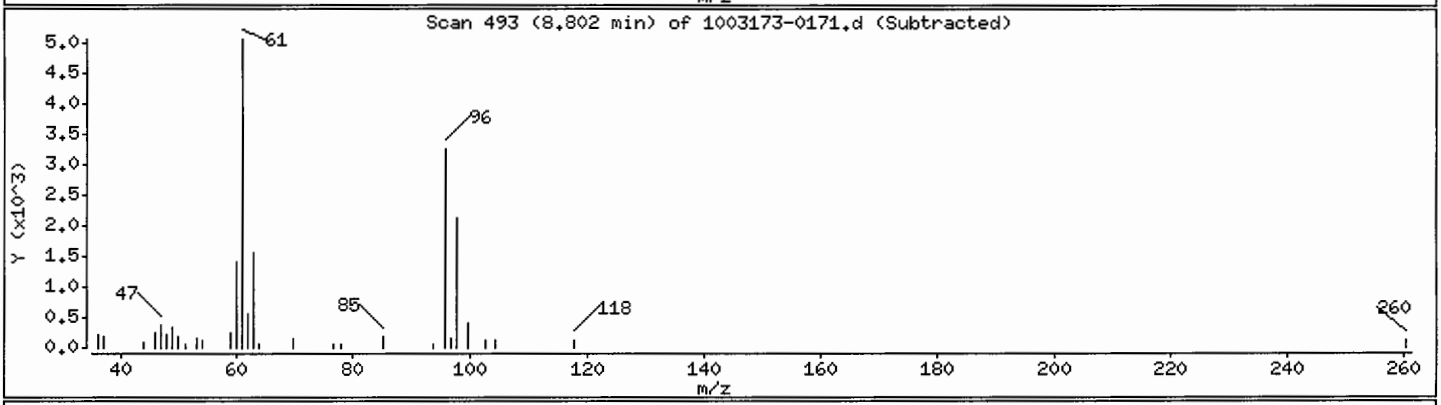
Sample Info: 1003173-01:JAO

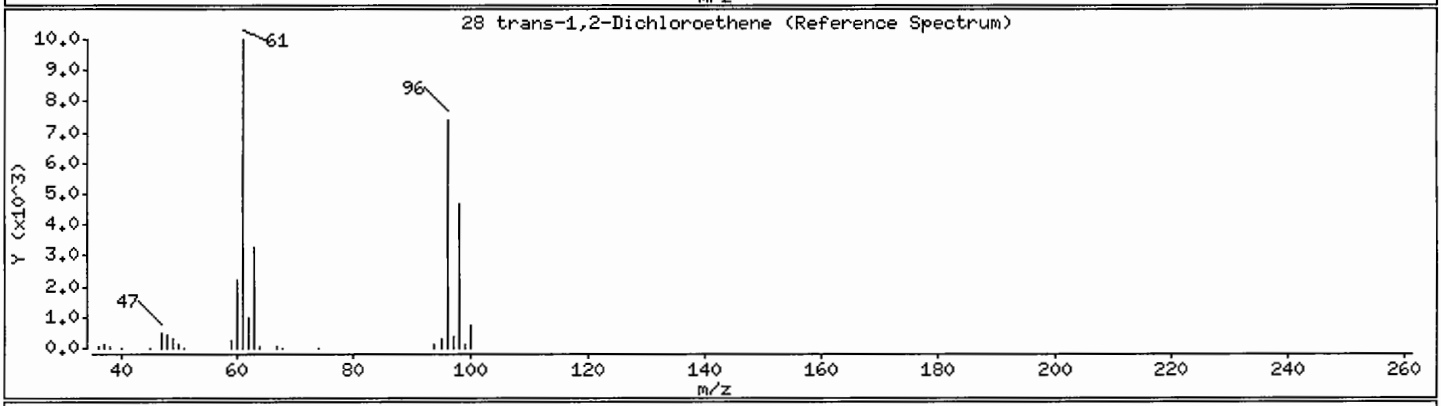
Purge Volume: 25.0 Operator: JAO

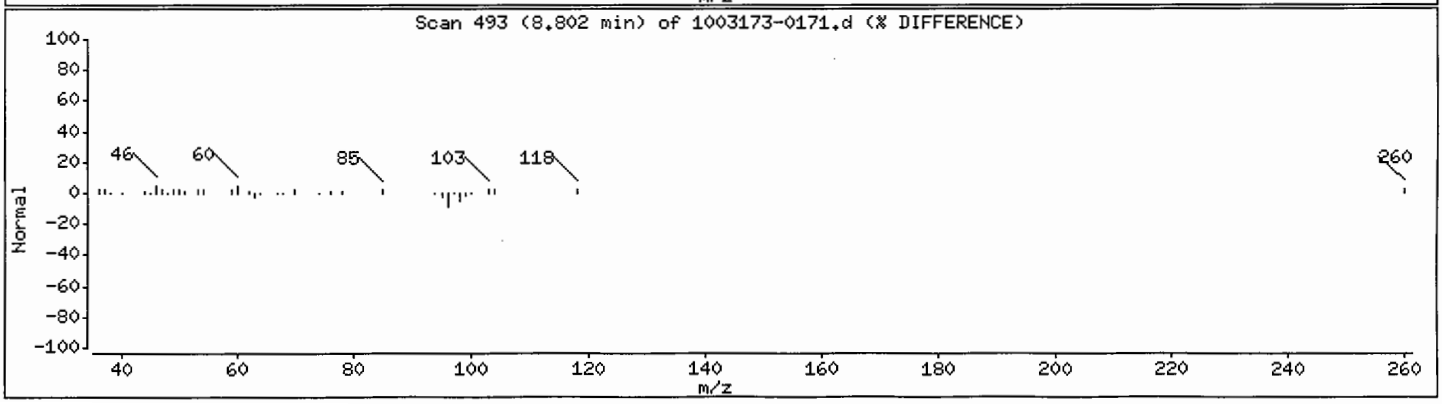
Column phase: SPB-624 Column diameter: 0.32

28 trans-1,2-Dichloroethene Concentration: 0.29 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

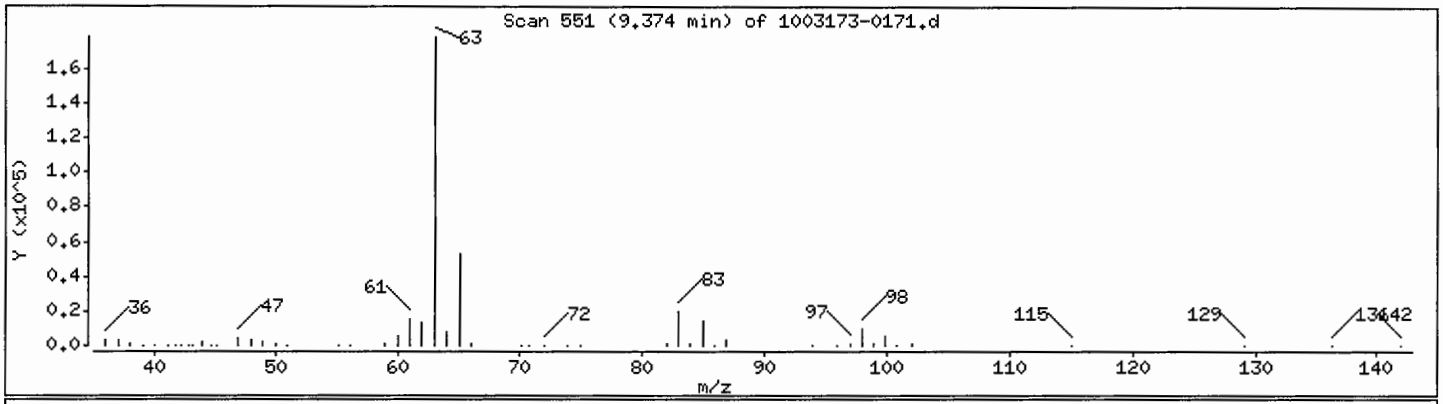
Client ID: MW-3 Instrument: 5972hp71.i

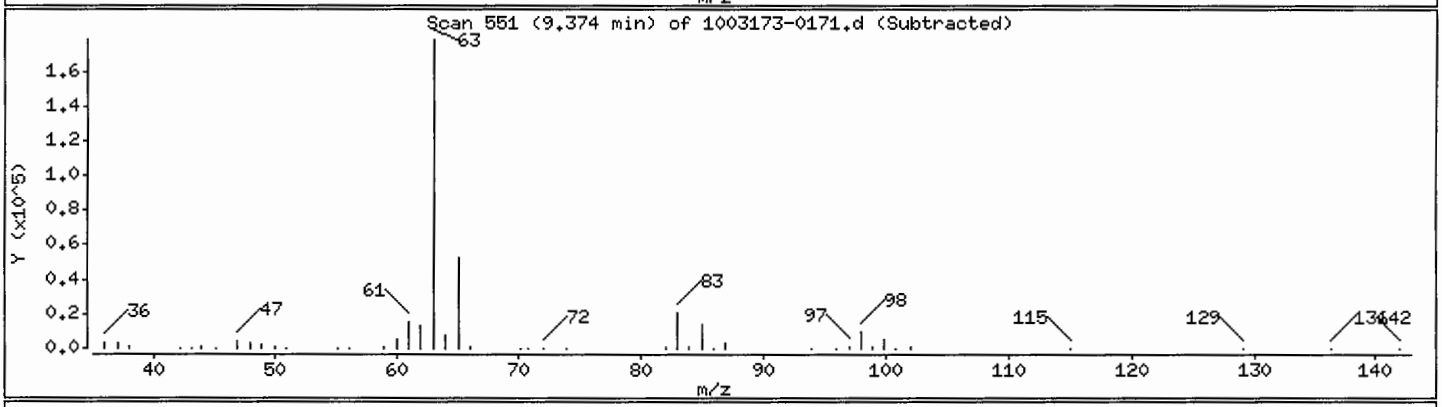
Sample Info: 1003173-01:JAO

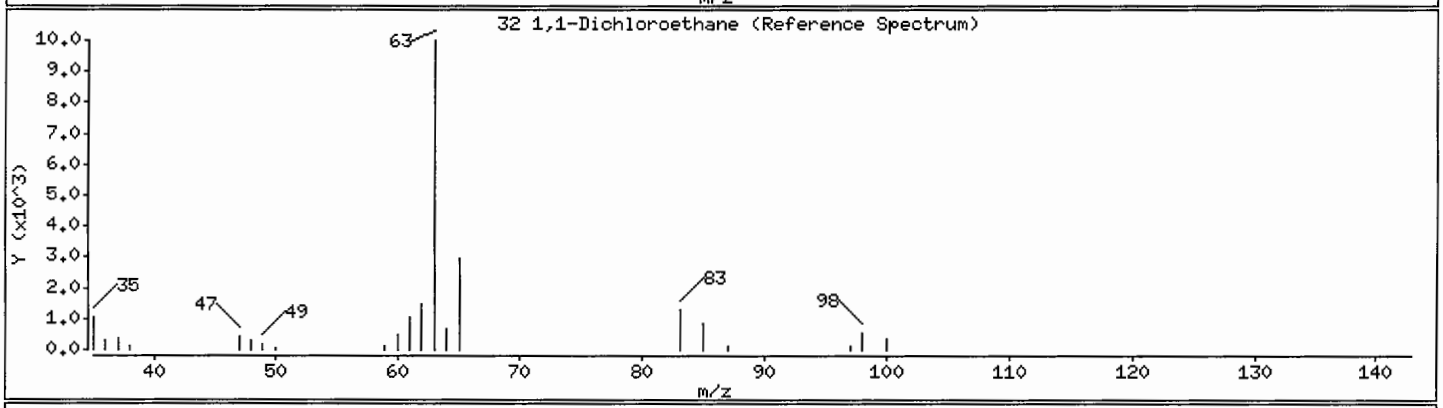
Purge Volume: 25.0 Operator: JAO

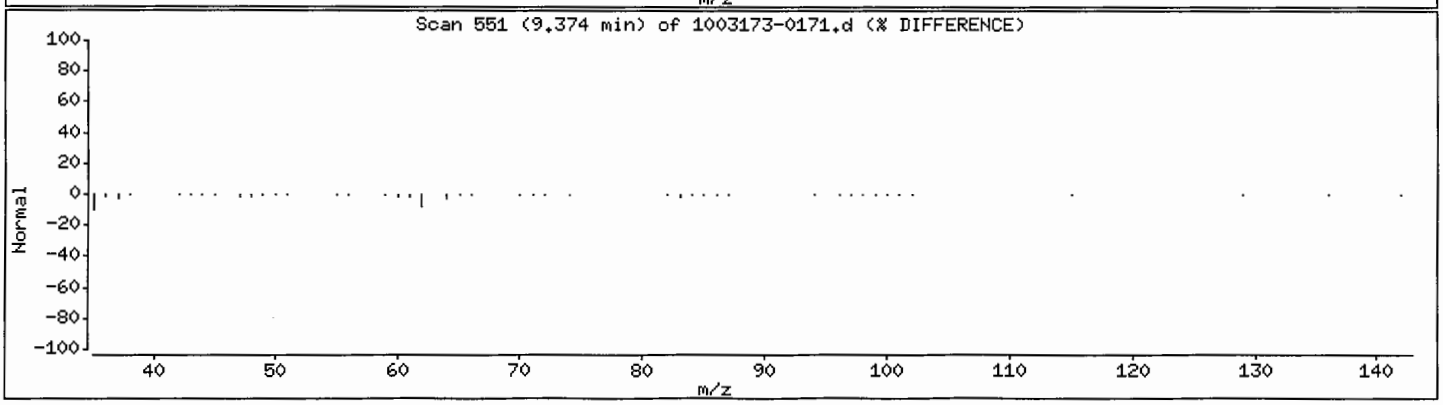
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 7.8 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

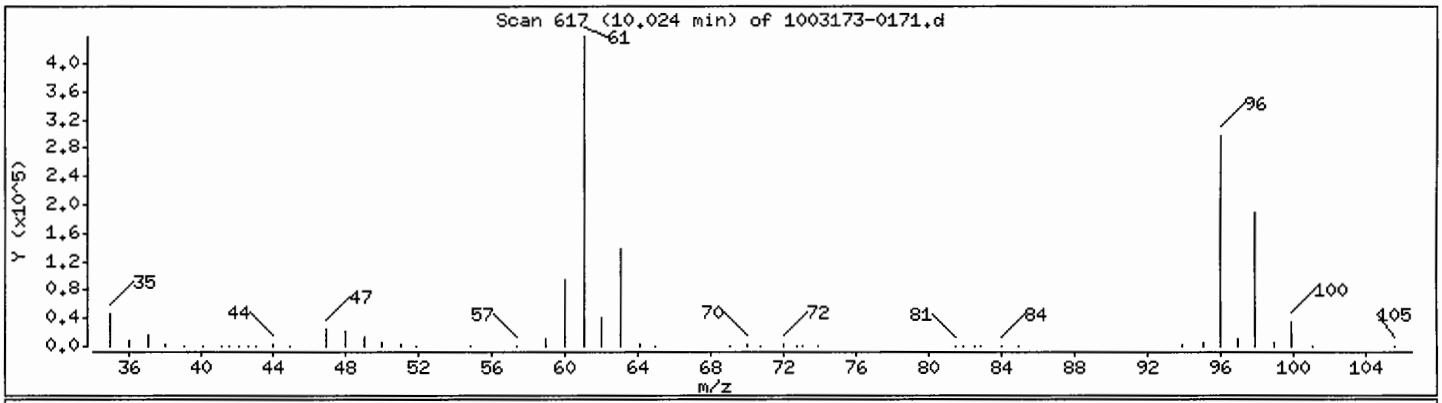
Client ID: MW-3 Instrument: 5972hp71.i

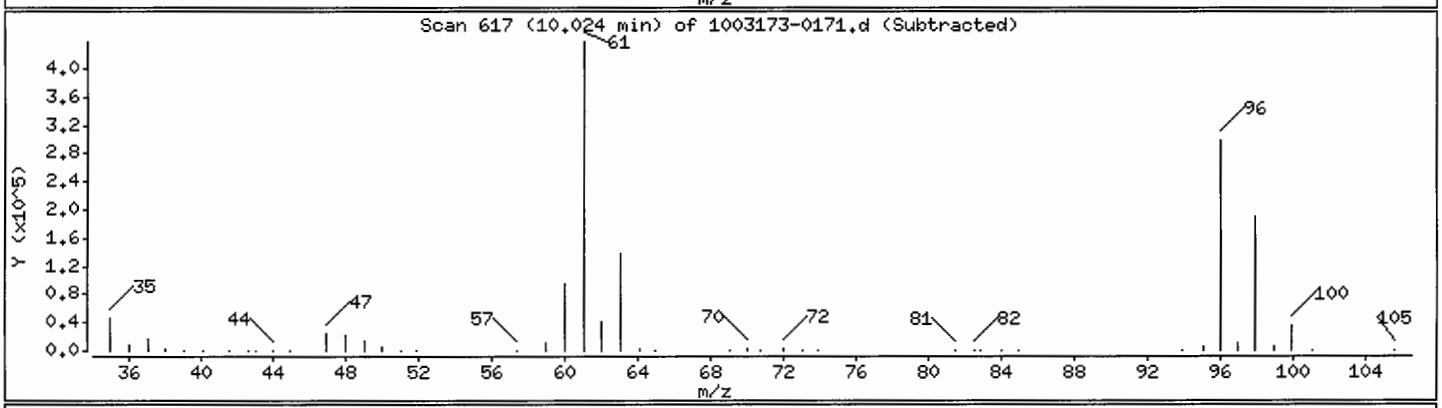
Sample Info: 1003173-01:JAO

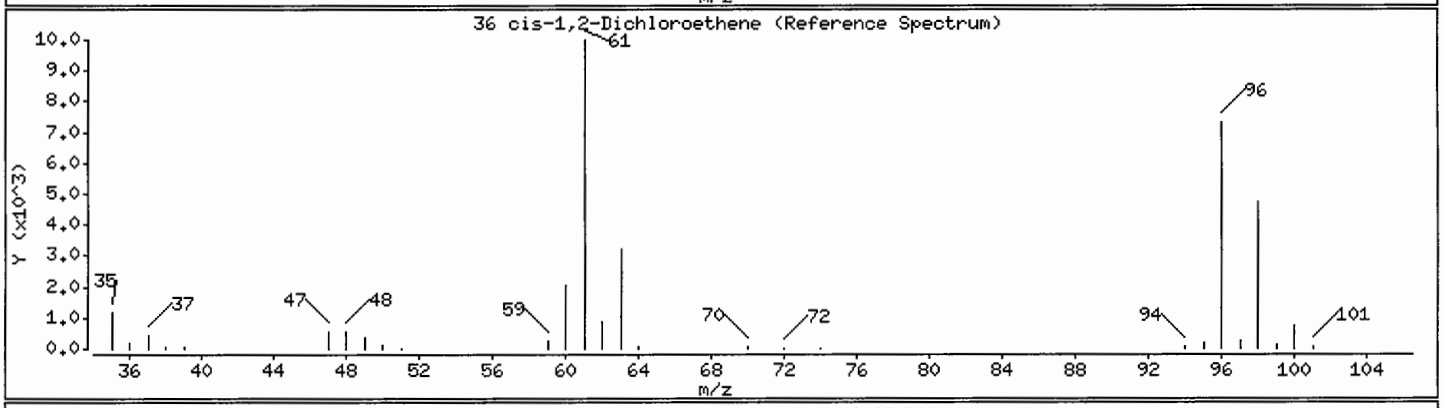
Purge Volume: 25.0 Operator: JAO

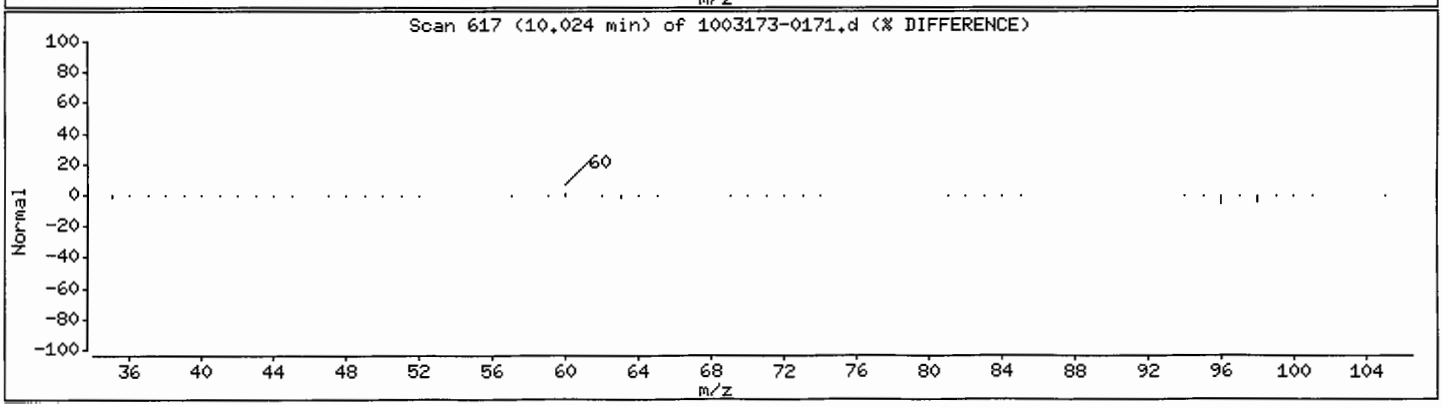
Column phase: SPB-624 Column diameter: 0.32

36 cis-1,2-Dichloroethene Concentration: 21 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

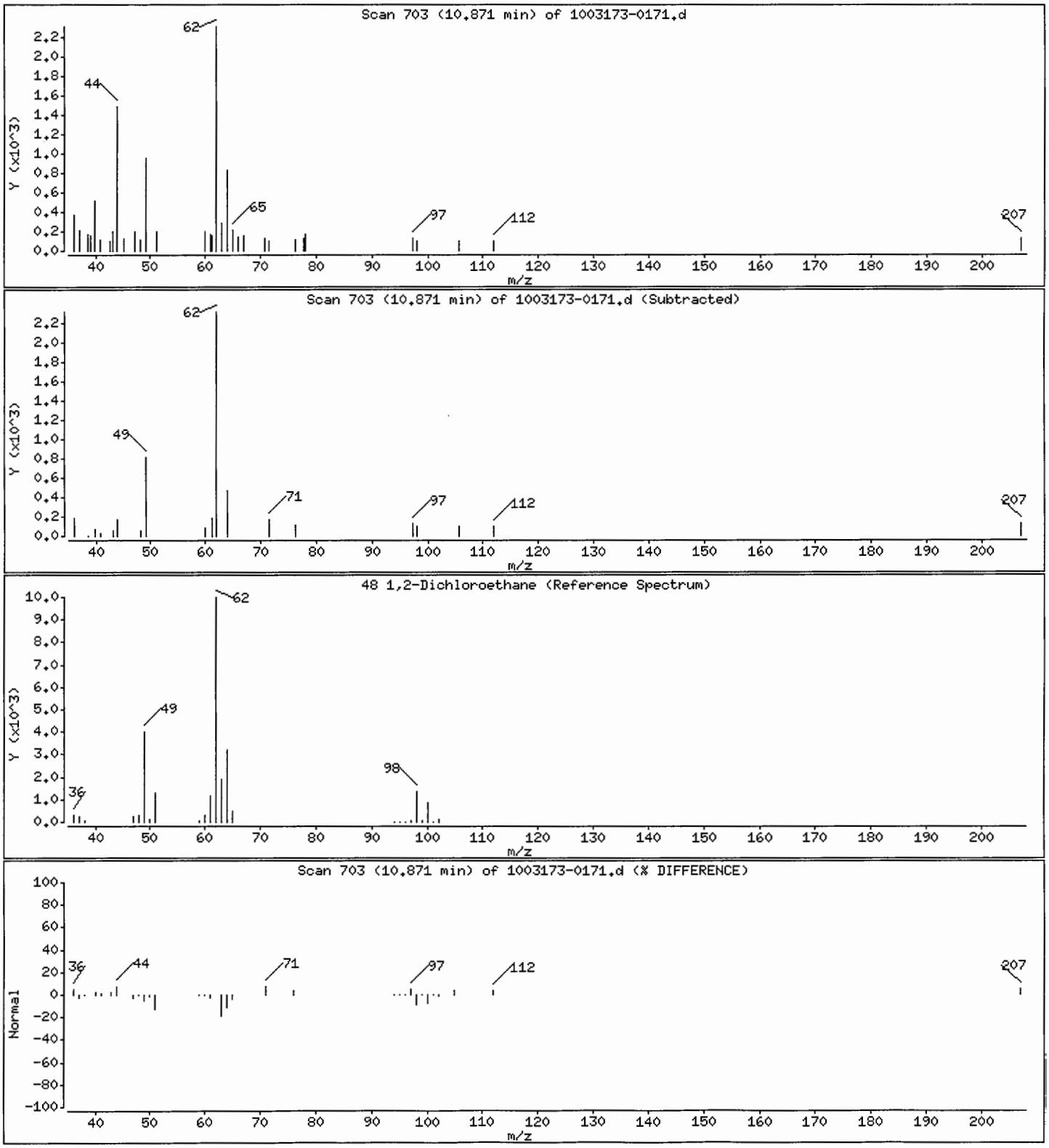
Client ID: MW-3 Instrument: 5972hp71.i

Sample Info: 1003173-01:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

48 1,2-Dichloroethane Concentration: 0.11 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

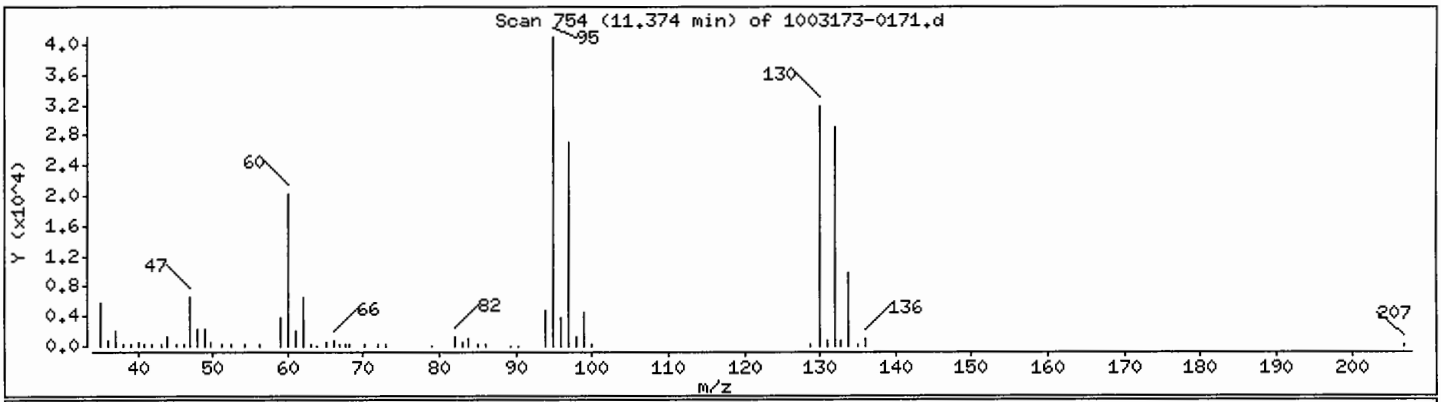
Client ID: MW-3 Instrument: 5972hp71.i

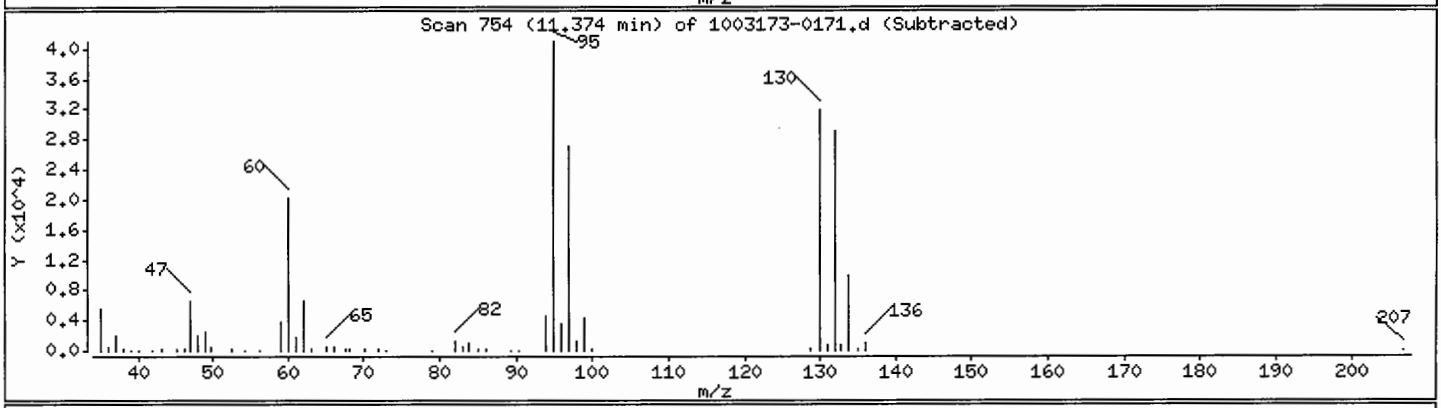
Sample Info: 1003173-01:JAO

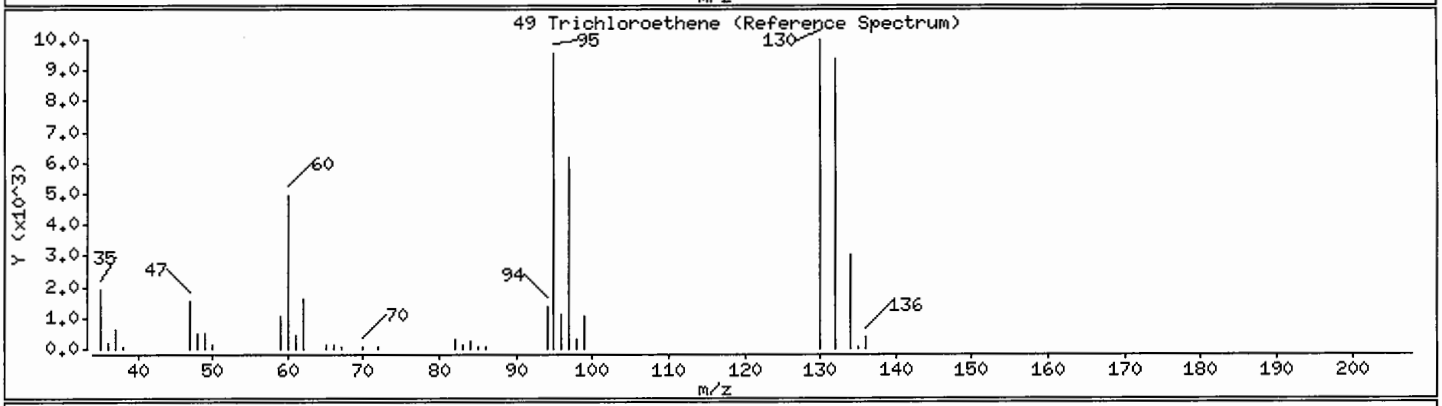
Purge Volume: 25.0 Operator: JAO

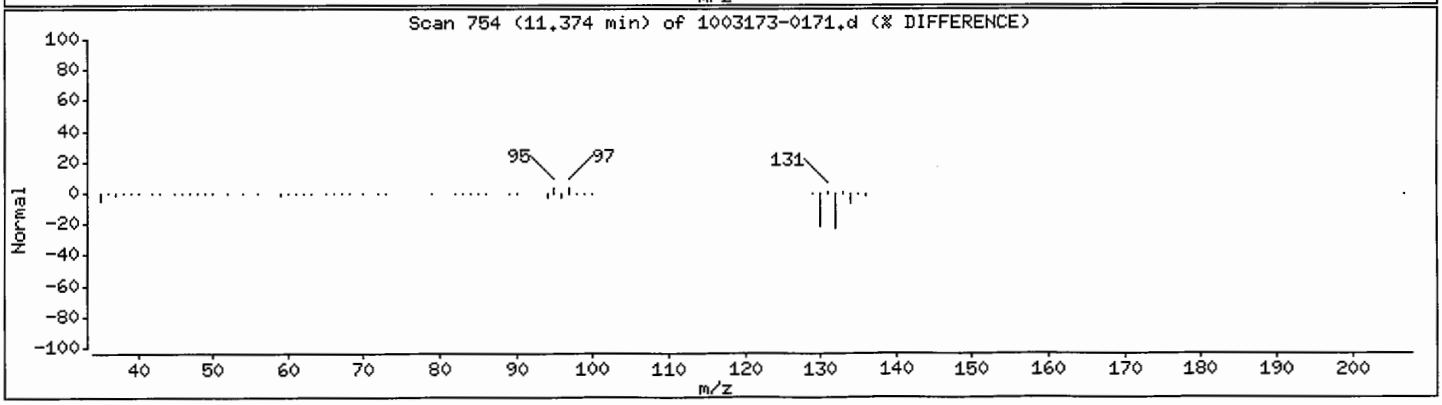
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 2.3 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

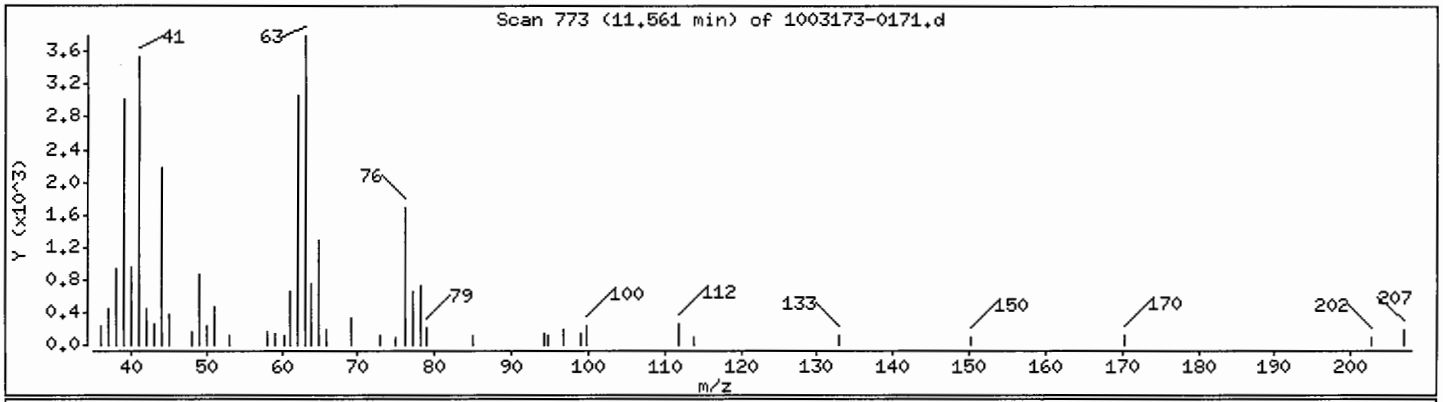
Client ID: MW-3 Instrument: 5972hp71.i

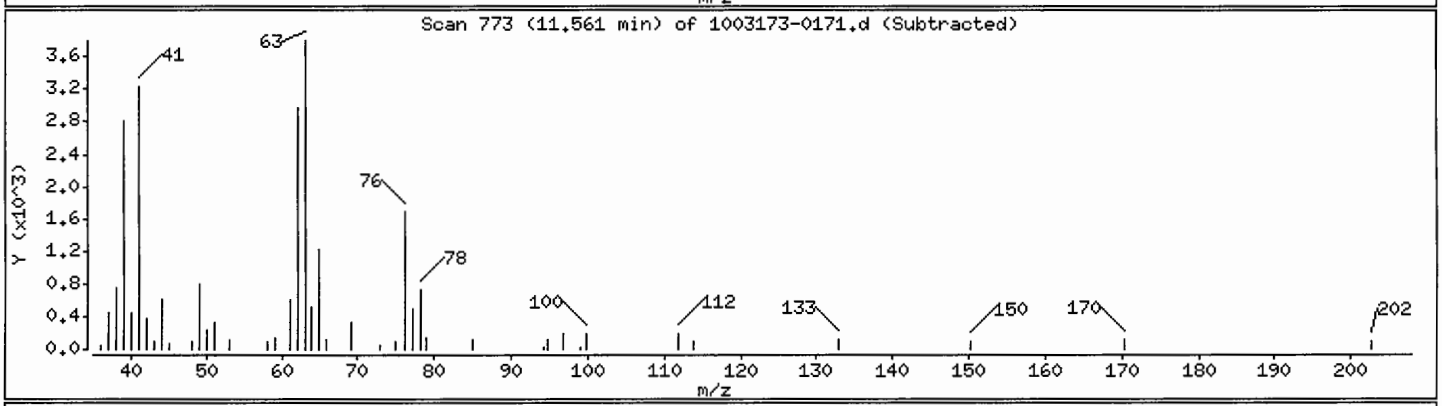
Sample Info: 1003173-01:JAO

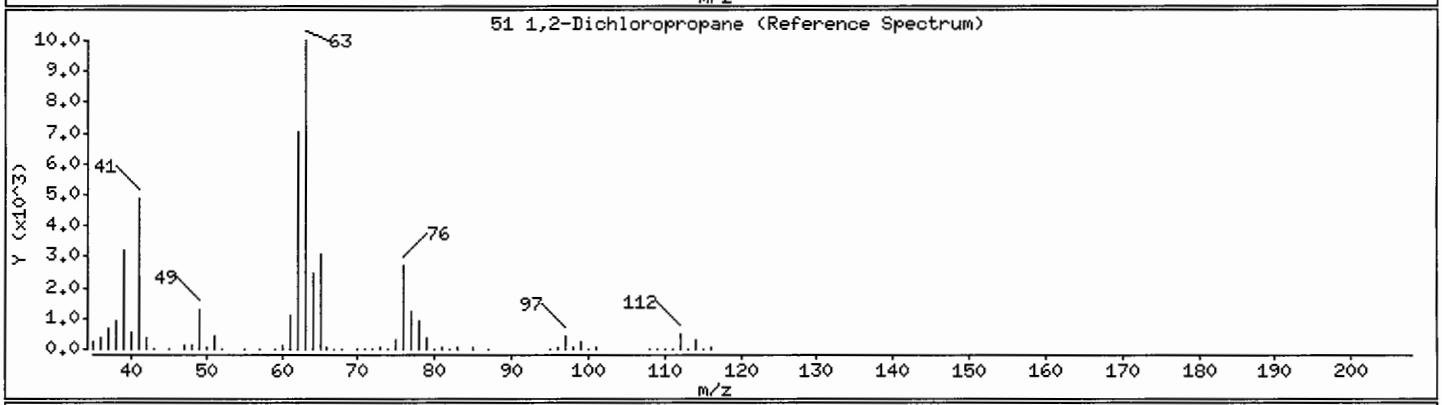
Purge Volume: 25.0 Operator: JAO

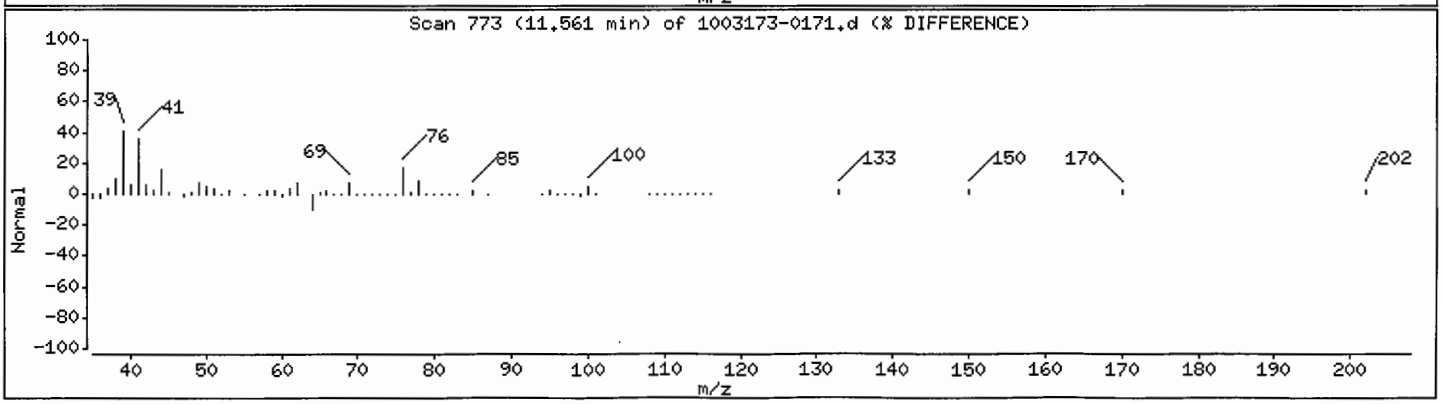
Column phase: SPB-624 Column diameter: 0.32

51 1,2-Dichloropropane Concentration: 0.31 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

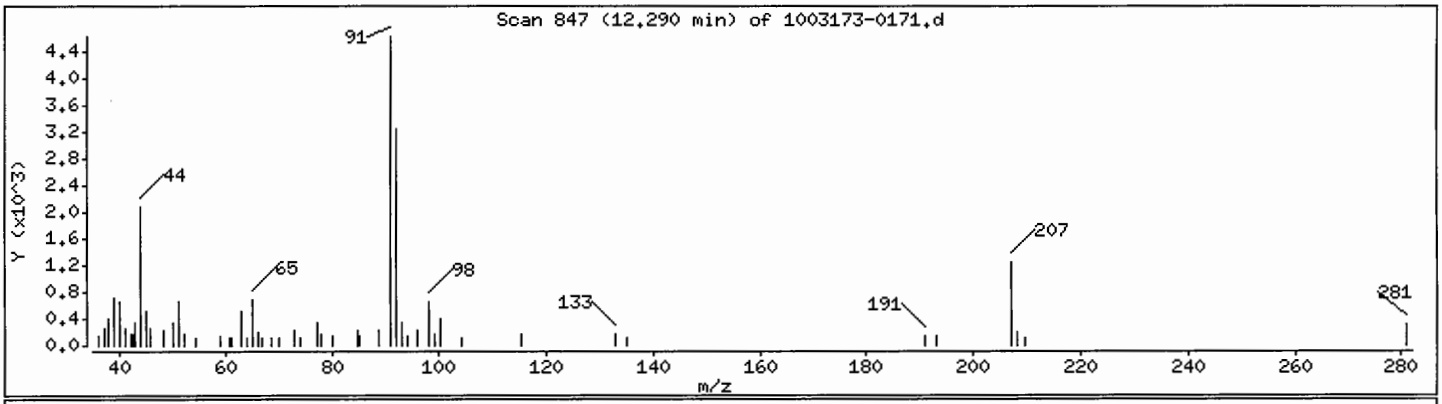
Client ID: MW-3 Instrument: 5972hp71.i

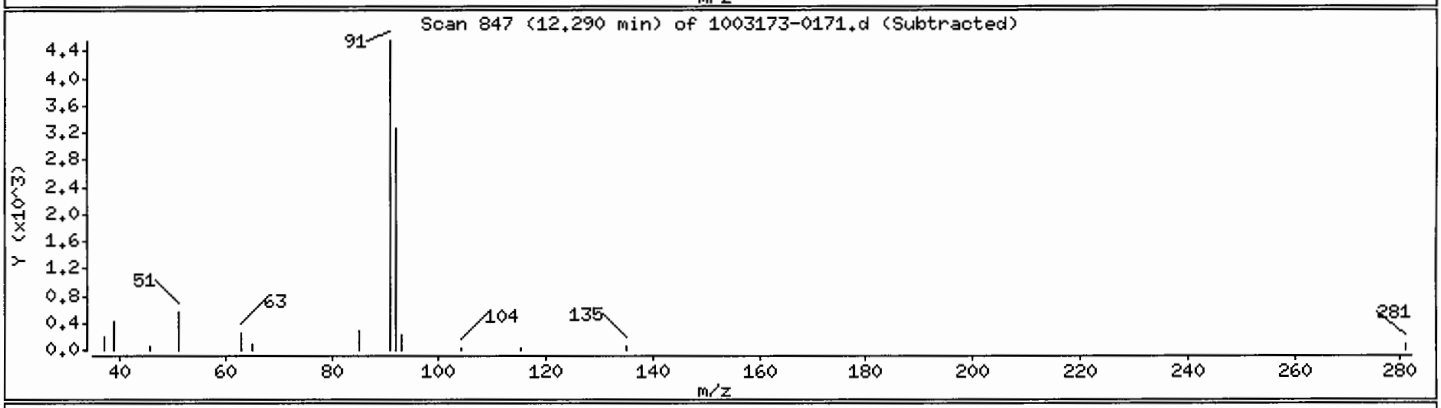
Sample Info: 1003173-01:JAO

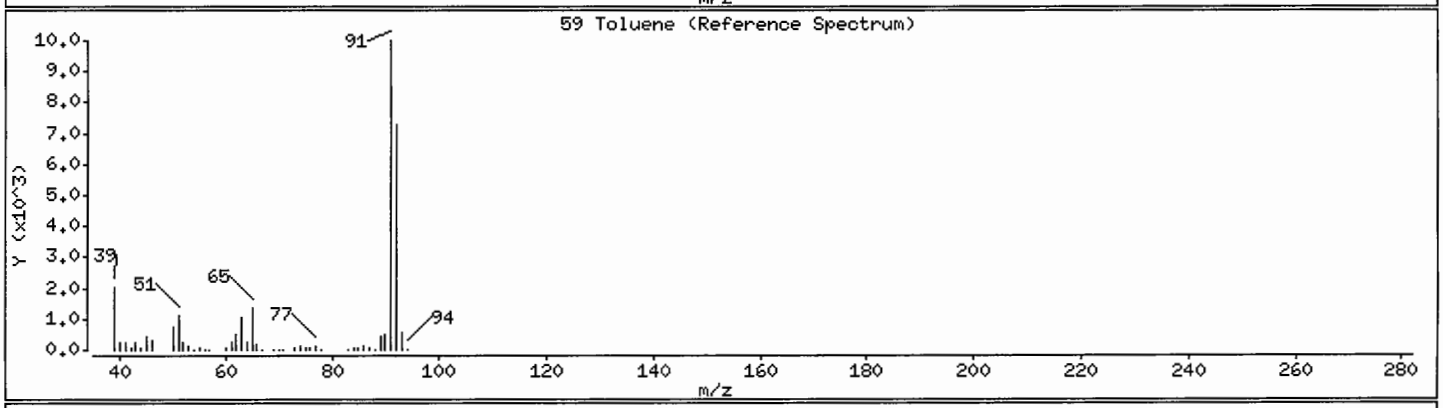
Purge Volume: 25.0 Operator: JAO

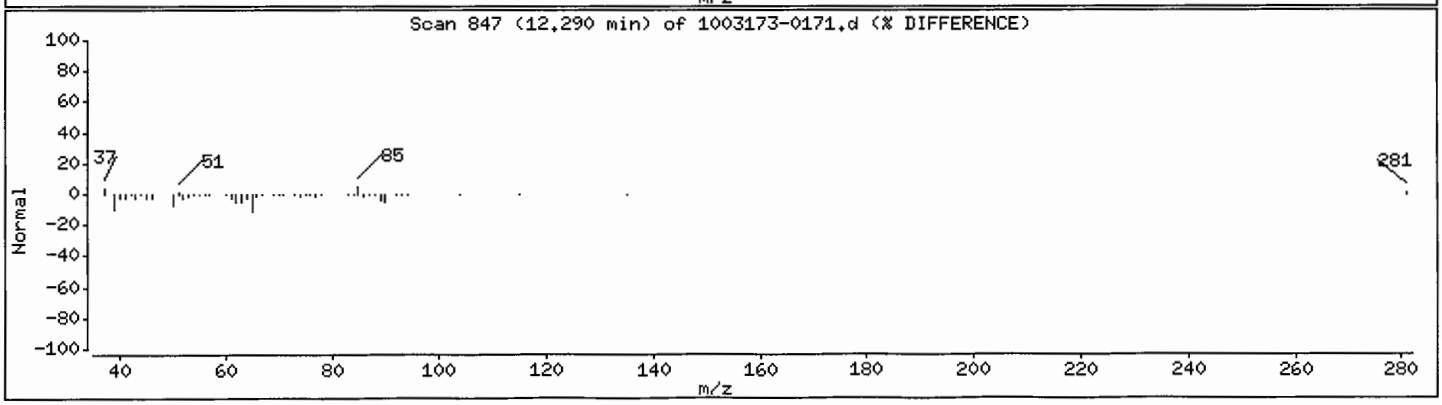
Column phase: SPB-624 Column diameter: 0.32

59 Toluene Concentration: 0.081 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

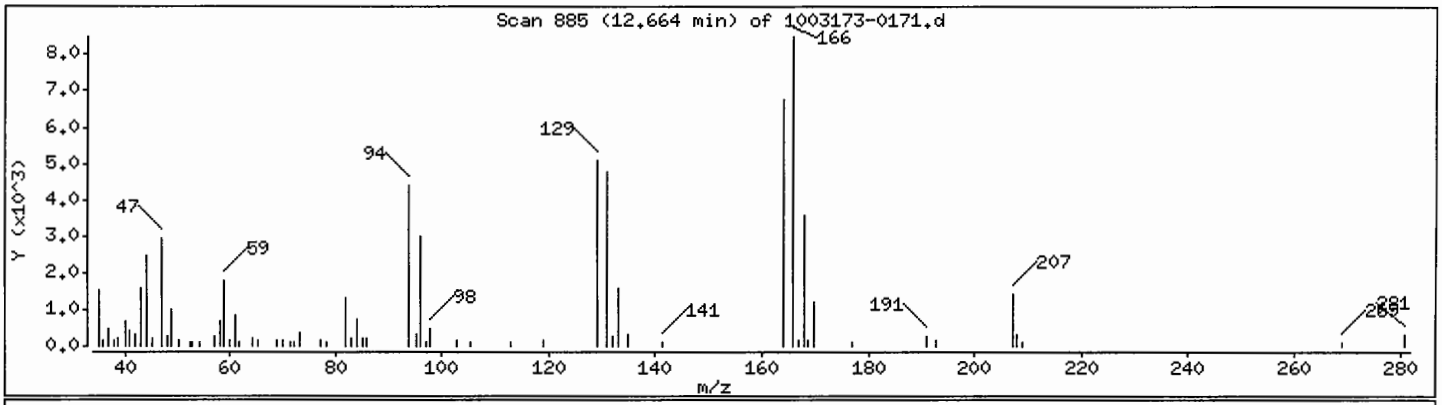
Client ID: MW-3 Instrument: 5972hp71.i

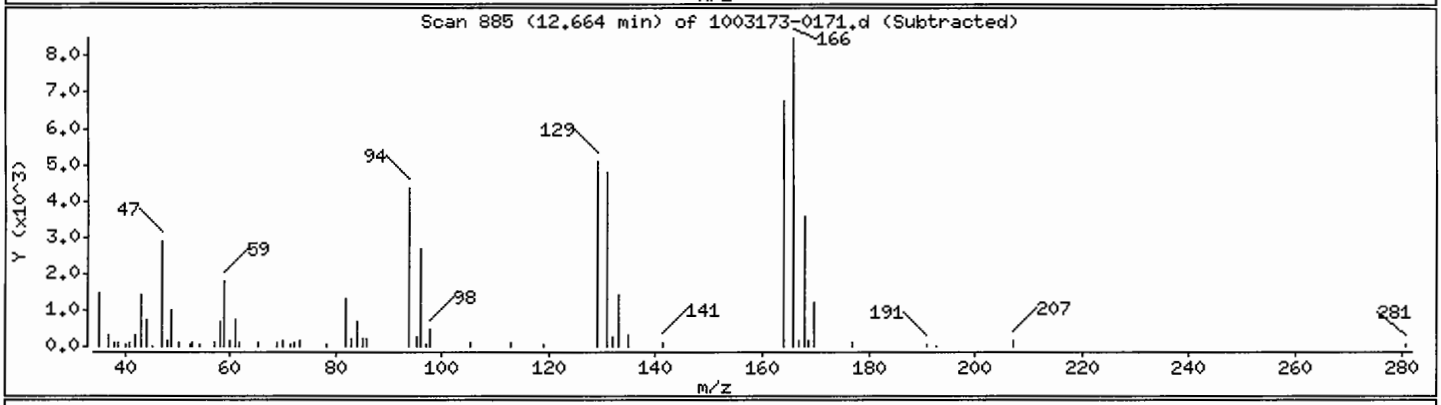
Sample Info: 1003173-01:JAO

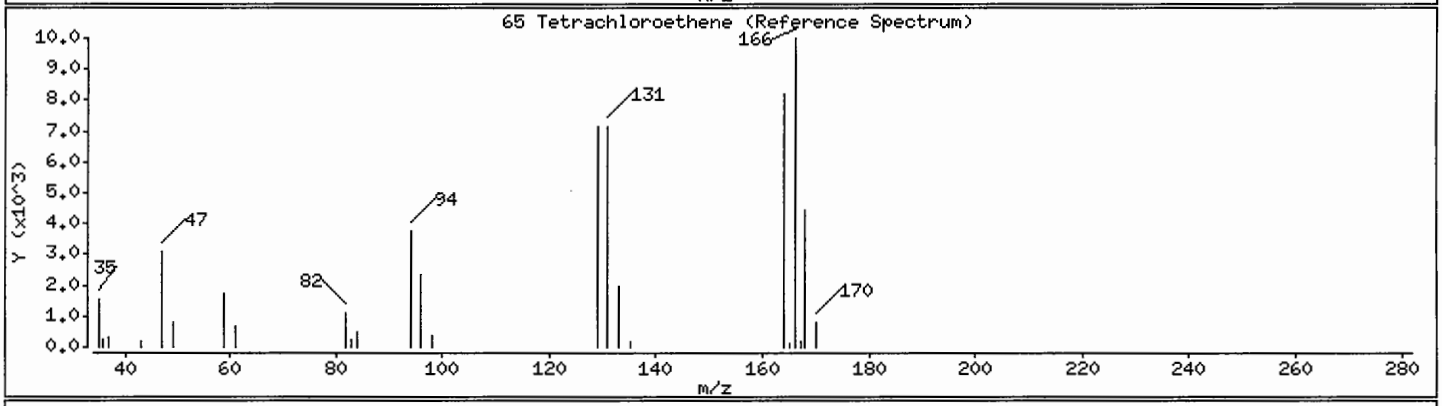
Purge Volume: 25.0 Operator: JAO

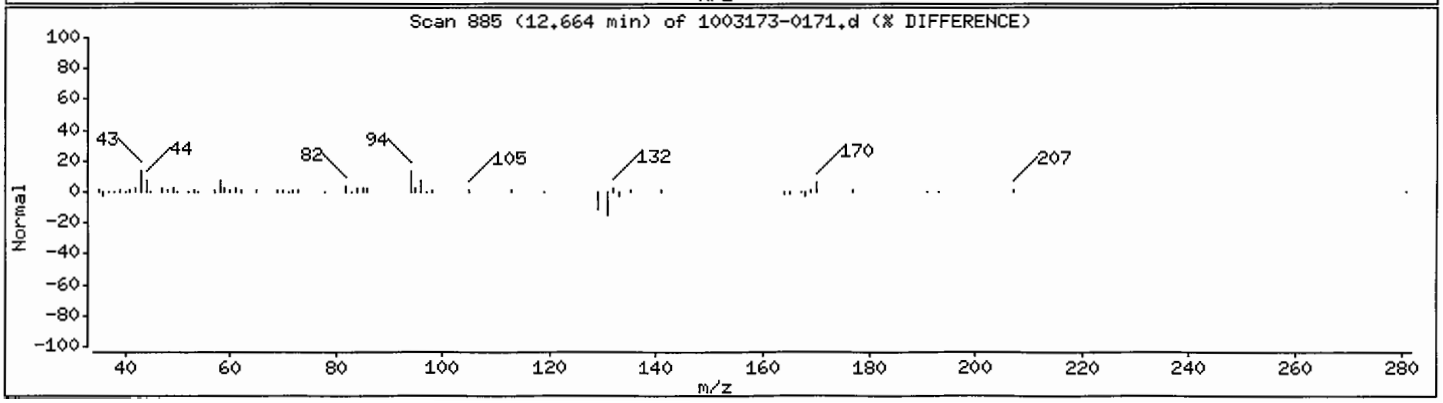
Column phase: SPB-624 Column diameter: 0.32

65 Tetrachloroethene Concentration: 0.13 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

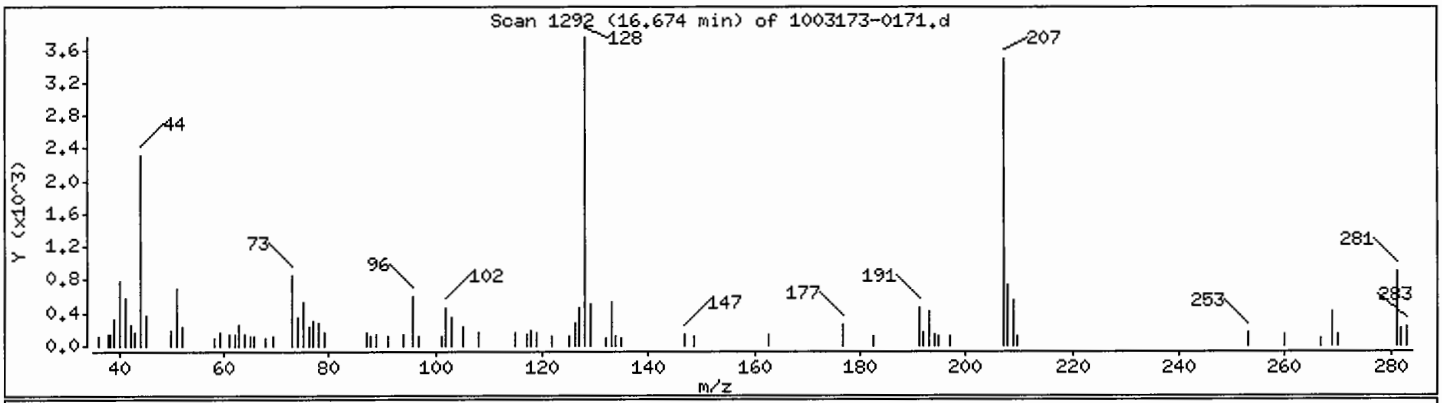
Client ID: MW-3 Instrument: 5972hp71.i

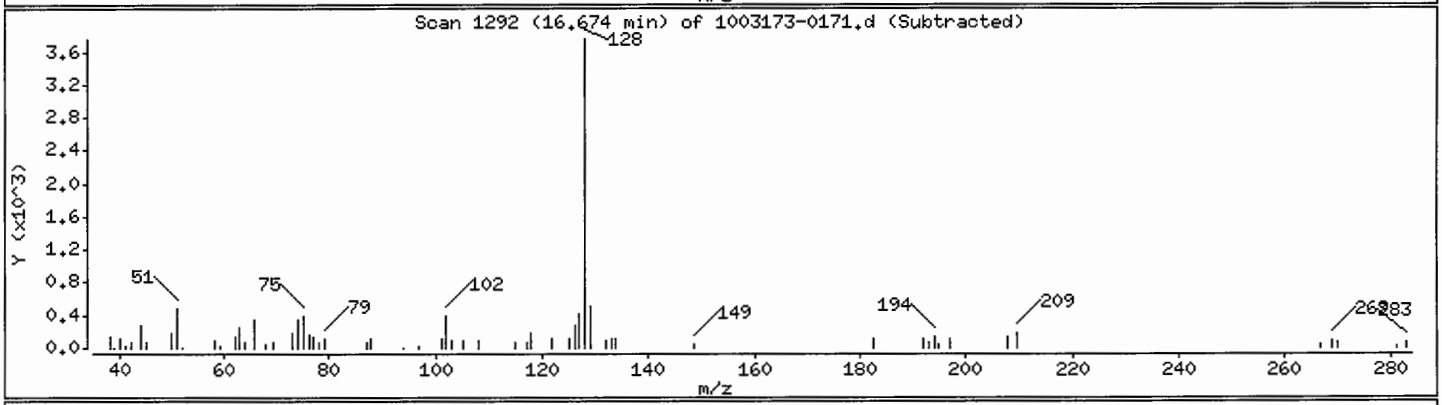
Sample Info: 1003173-01:JAO

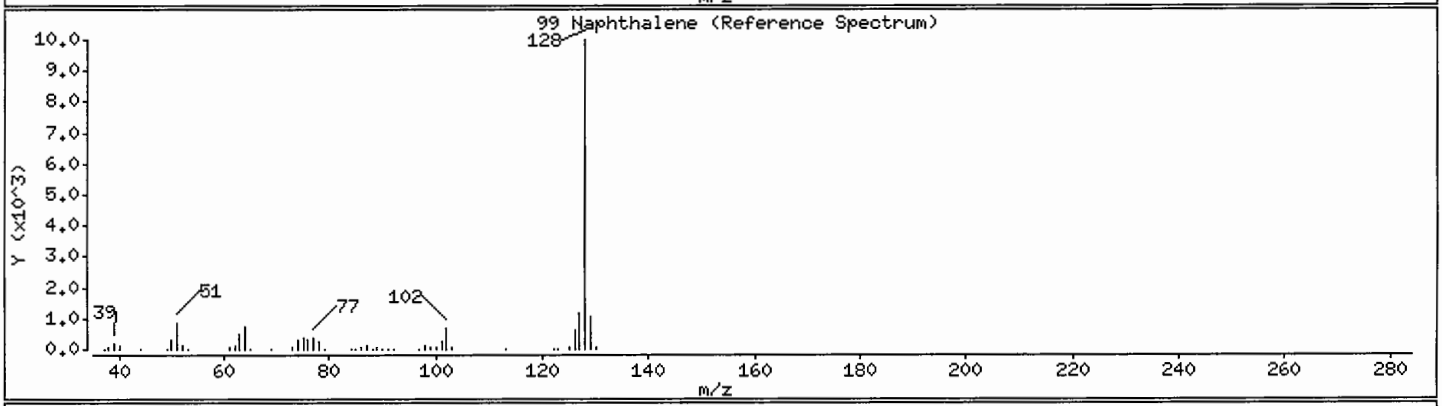
Purge Volume: 25.0 Operator: JAO

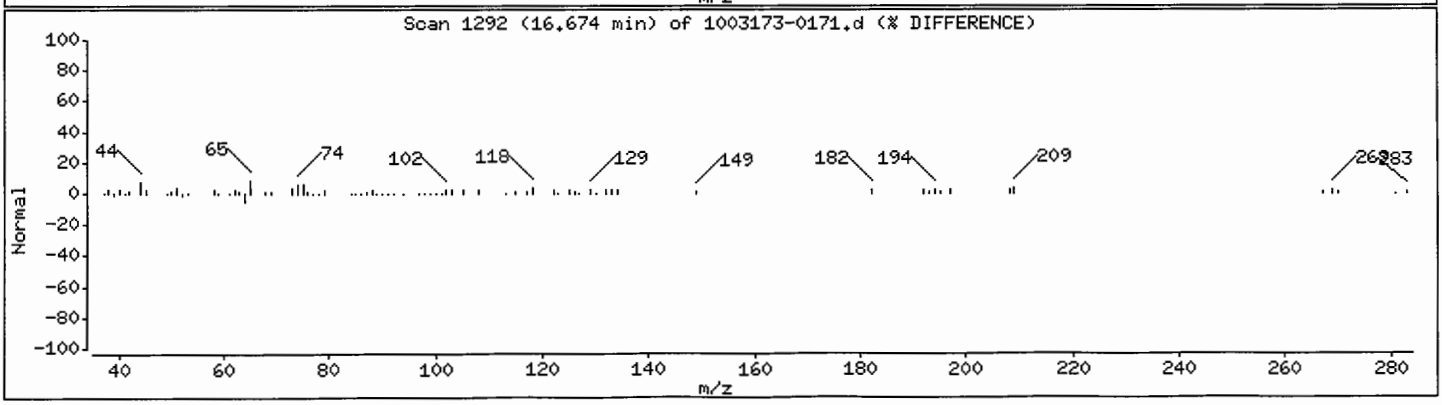
Column phase: SPB-624 Column diameter: 0.32

99 Naphthalene Concentration: 0.23 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0171.d
Lab Smp Id: 1003173-01 Client Smp ID: MW-3
Inj Date : 31-MAR-2010 16:40
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-01:JAO
Misc Info : MW-3
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.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

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	11.068	1073318	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Fluorodichloromethane			CAS #: 75-43-4				
6.497	217778	25.3626790	1.0	95	NIS08.l	4467	1

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0171.d

Date : 31-MAR-2010 16:40

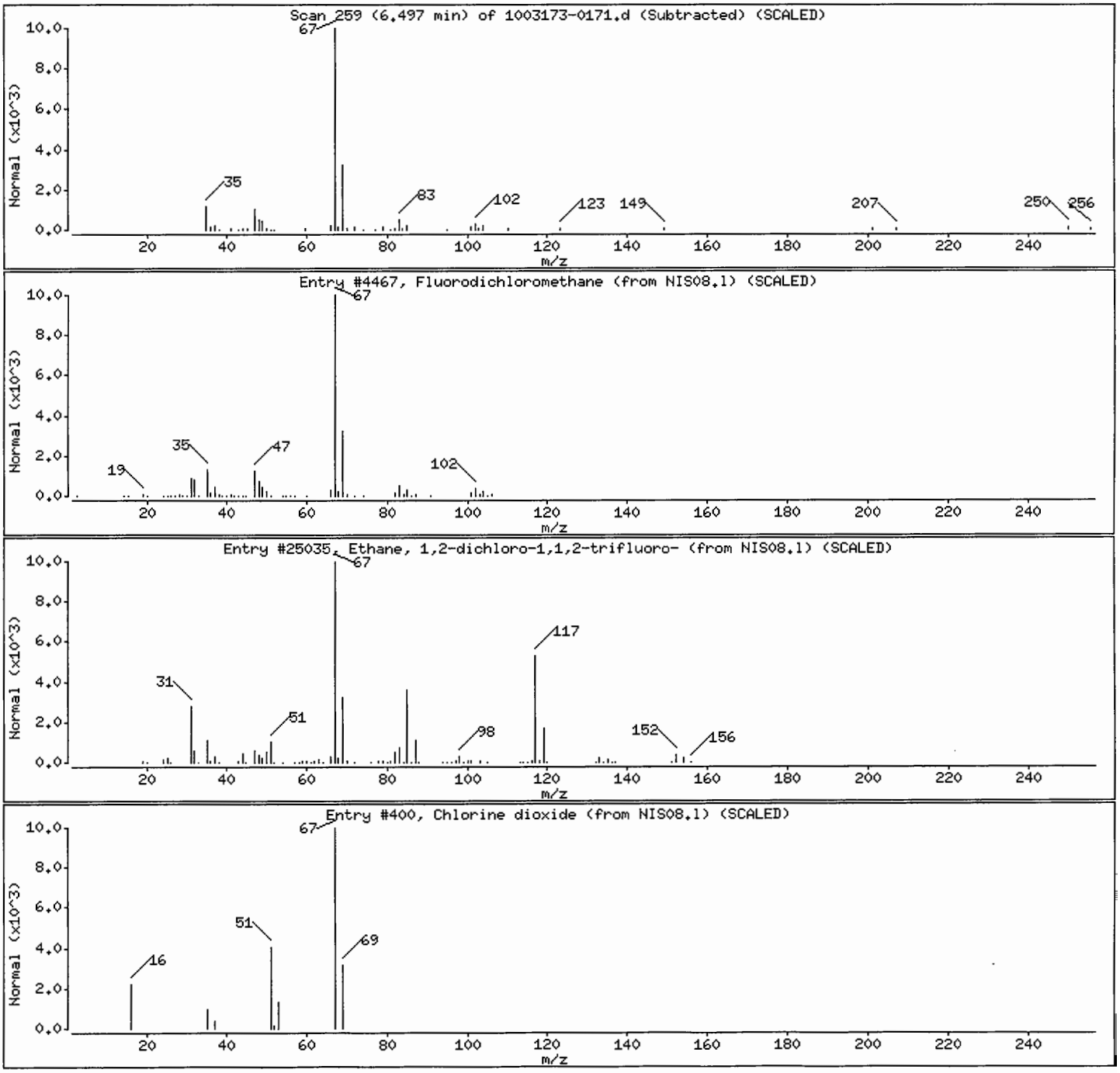
Client ID: MW-3 Instrument: 5972hp71.i

Sample Info: 1003173-01:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Fluorodichloromethane	75-43-4	NIS08.l	4467	95	CHCl2F	102
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIS08.l	25035	64	C2HCl2F3	152
Chlorine dioxide	10049-04-4	NIS08.l	400	42	ClO2	67



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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-03

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0371

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	2.4	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.047	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	0.057	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	0.50	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	0.10	J
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 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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-03

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0371

Level: (low/med) LOW Date Received: 03/19/10

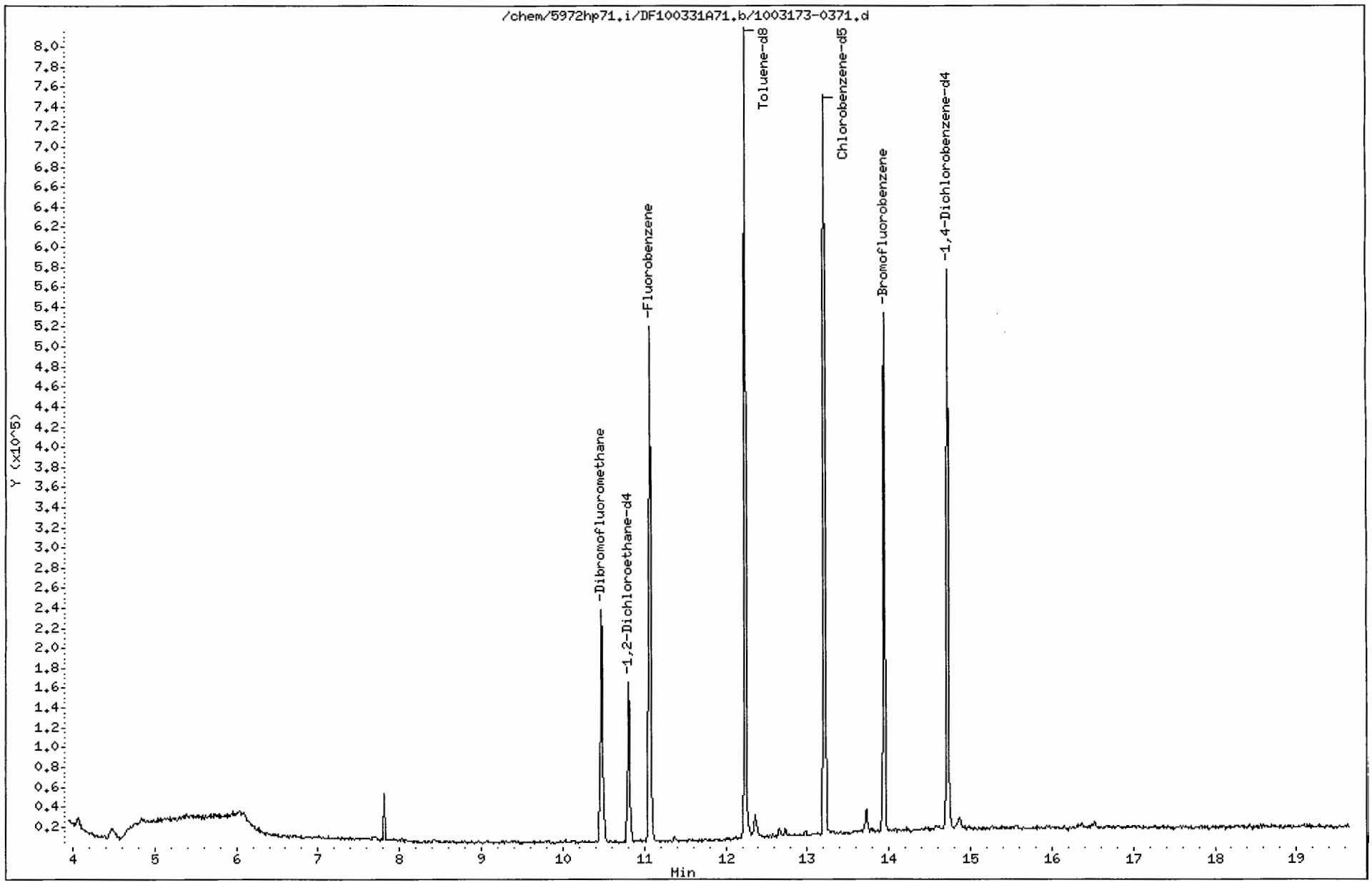
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.060	JB
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	0.50	U
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d
Date : 31-MAR-2010 17:38
Client ID: MW-8
Instrument: 5972hp71.i
Sample Info: 1003173-03:JA0
Purge Volume: 25.0
Operator: JA0
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0371.d
Lab Smp Id: 1003173-03 Client Smp ID: MW-8
Inj Date : 31-MAR-2010 17:38
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-03:JAO
Misc Info : MW-8
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	11.074	11.069	(1.000)	439490	125.000	
* 2 Chlorobenzene-d5	117	13.212	13.216	(1.000)	364272	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.720	14.714	(1.000)	141195	125.000	
$ 4 Dibromofluoromethane	113	10.473	10.478	(0.946)	143036	120.551	4.8
$ 5 1,2-Dichloroethane-d4	65	10.808	10.812	(0.976)	107371	121.342	4.9
$ 6 Toluene-d8	98	12.237	12.241	(0.926)	448481	113.751	4.6
$ 7 Bromofluorobenzene	95	13.941	13.936	(0.947)	186583	115.754	4.6
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.					
18 Acetone	43	7.695	7.689	(0.695)	6551	60.3197	2.4(a)
19 Iodomethane	142	Compound Not Detected.					

MH 4.7.10

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	8.434	8.428	(0.762)	841	1.16760	0.047(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	9.380	9.374	(0.847)	2603	1.43478	0.057(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	10.513	10.507	(0.949)	5038	2.54192	0.10(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	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	12.286	12.290	(0.930)	3622	1.51130	0.060(a)
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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d
Report Date: 07-Apr-2010 16:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81	1,2,3-Trichloropropane	110	Compound Not Detected.					
80	trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92	1,3-Dichlorobenzene	146	Compound Not Detected.					
93	1,4-Dichlorobenzene	146	Compound Not Detected.					
95	1,2-Dichlorobenzene	146	Compound Not Detected.					
97	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98	Hexachlorobutadiene	225	Compound Not Detected.					
99	Naphthalene	128	Compound Not Detected.					
M 102	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d

Date : 31-MAR-2010 17:38

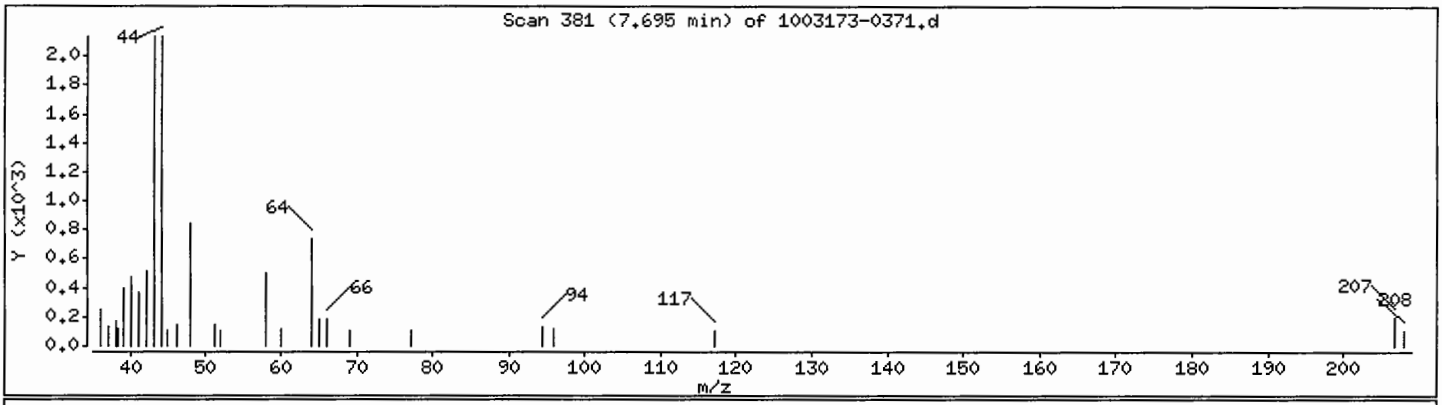
Client ID: MW-8 Instrument: 5972hp71.i

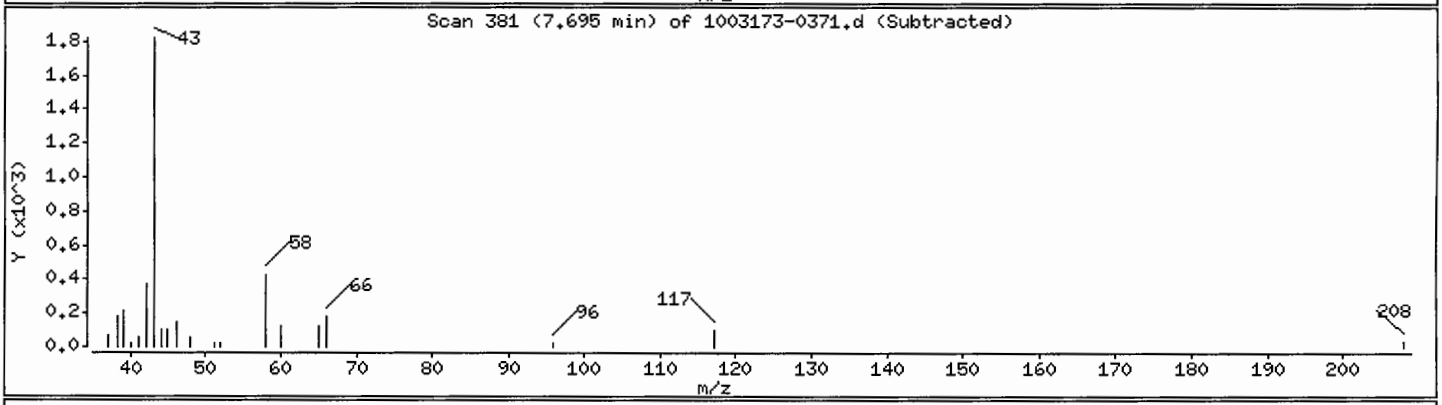
Sample Info: 1003173-03:JA0

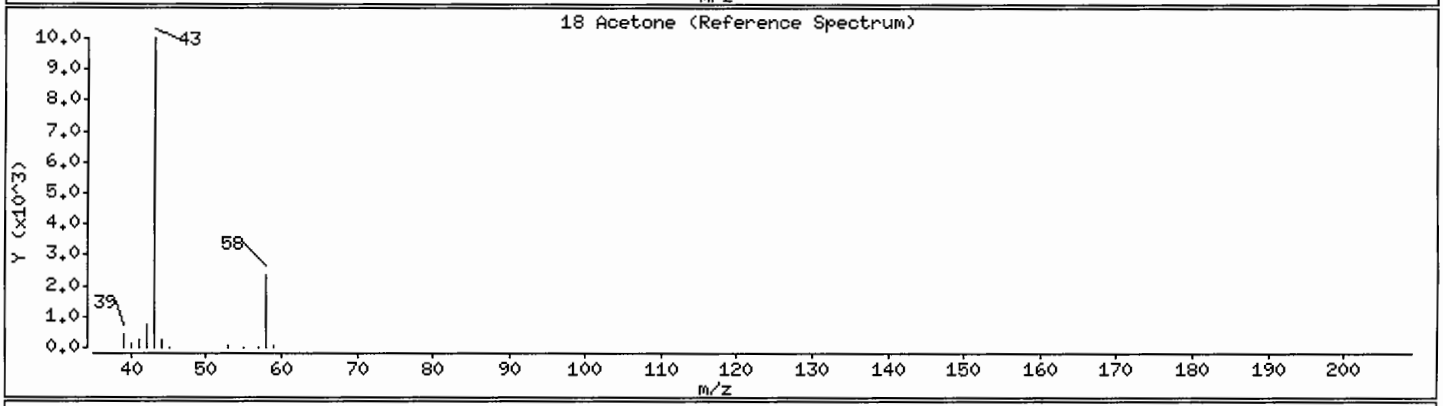
Purge Volume: 25.0 Operator: JA0

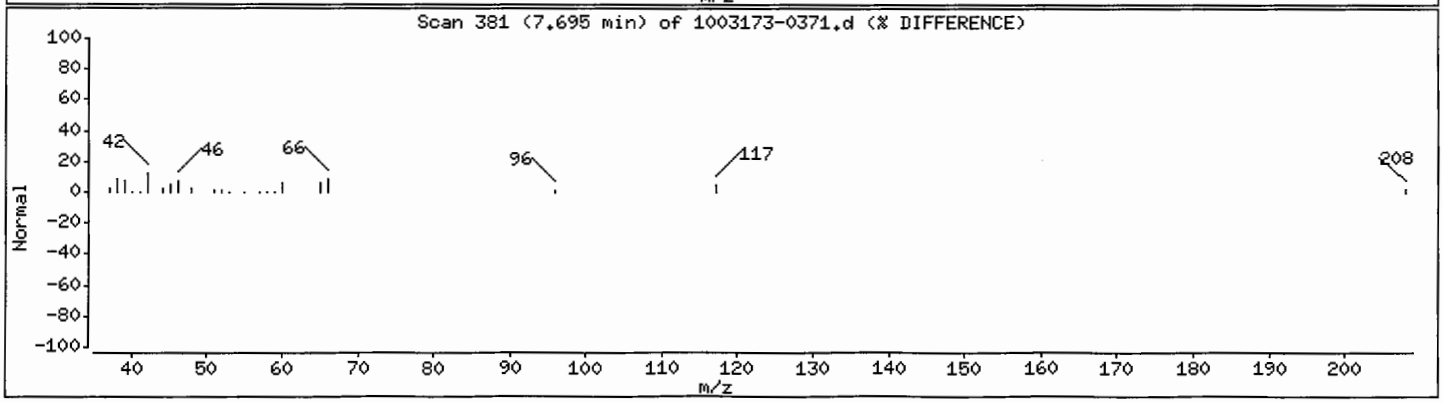
Column phase: SPB-624 Column diameter: 0.32

18 Acetone Concentration: 2.4 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d

Date : 31-MAR-2010 17:38

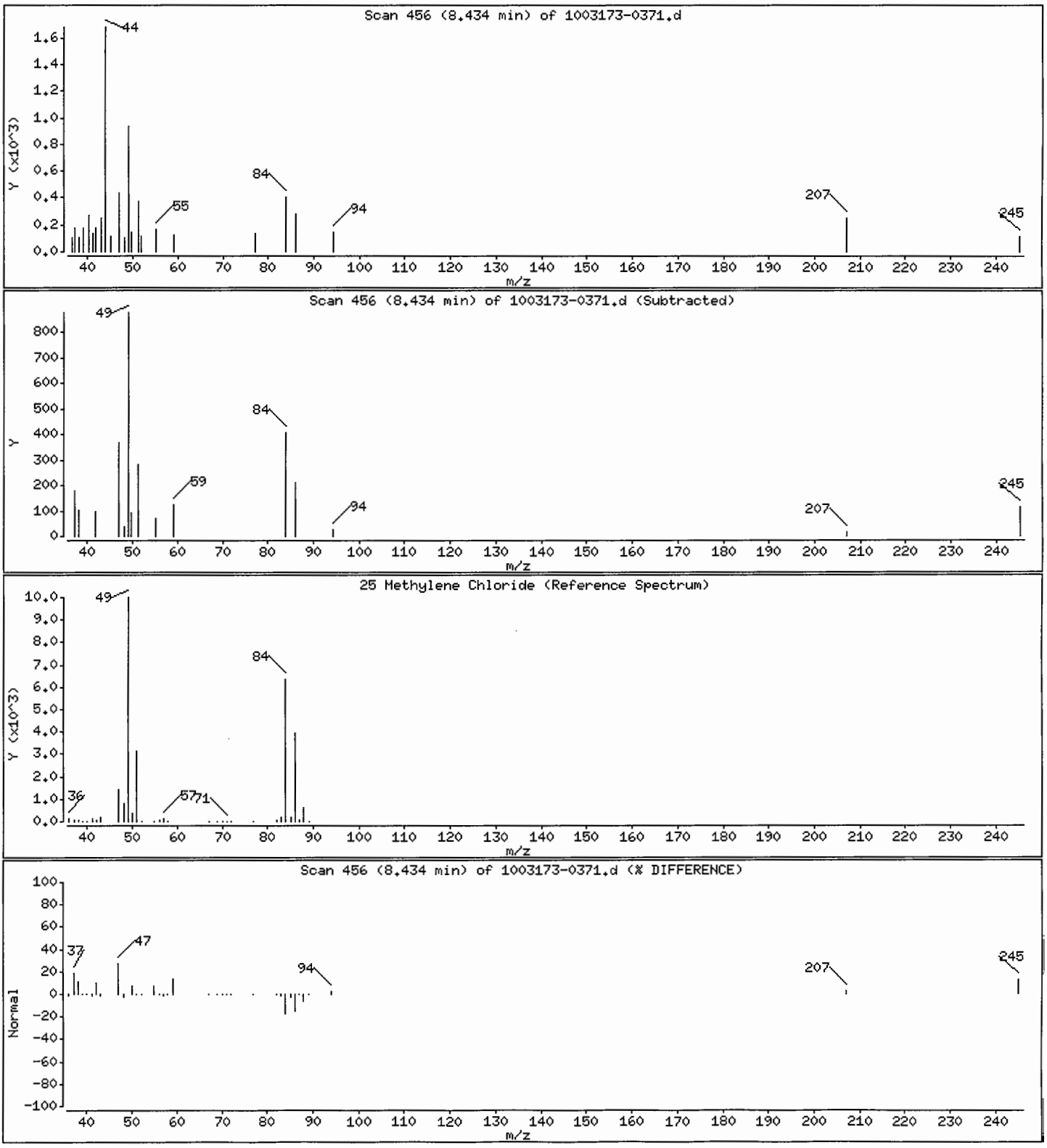
Client ID: MW-8 Instrument: 5972hp71.i

Sample Info: 1003173-03:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

25 Methylene Chloride Concentration: 0.047 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d

Date : 31-MAR-2010 17:38

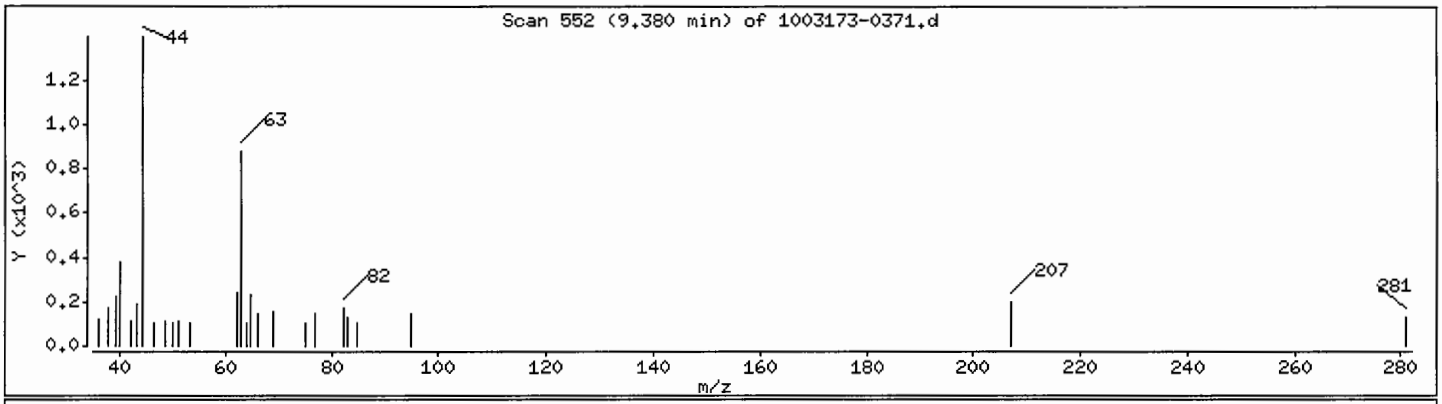
Client ID: MW-8 Instrument: 5972hp71.i

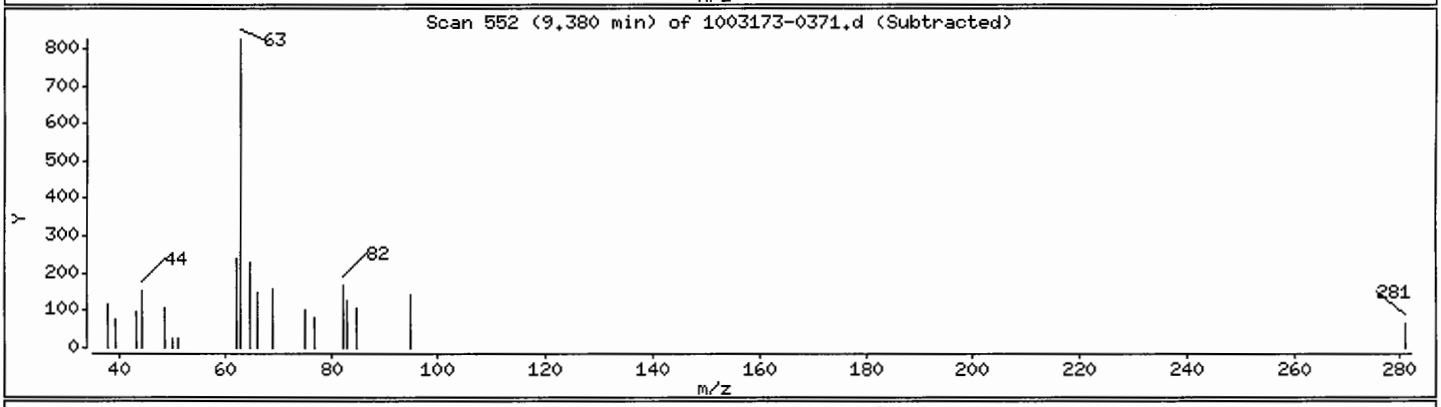
Sample Info: 1003173-03:JAO

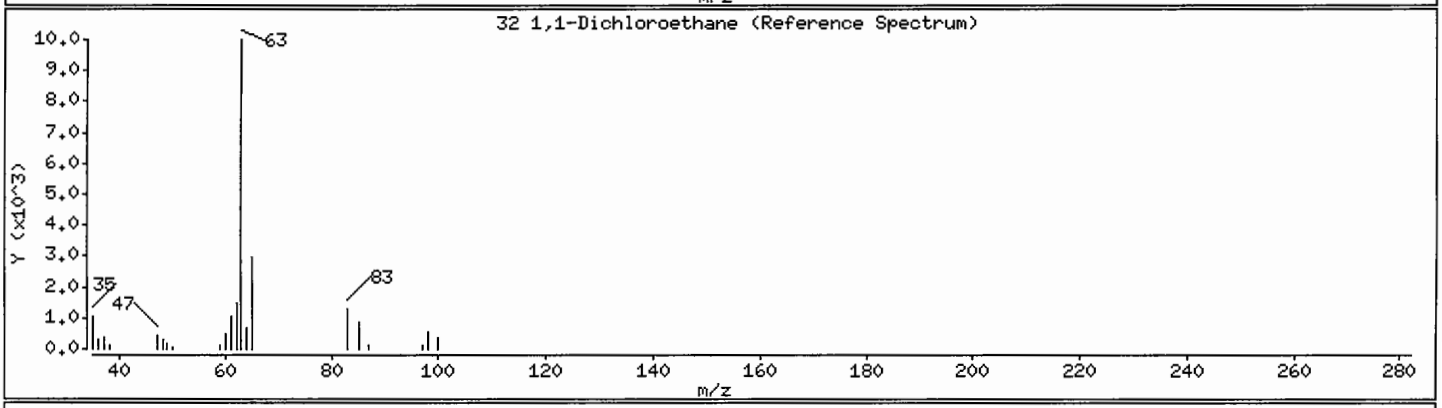
Purge Volume: 25.0 Operator: JAO

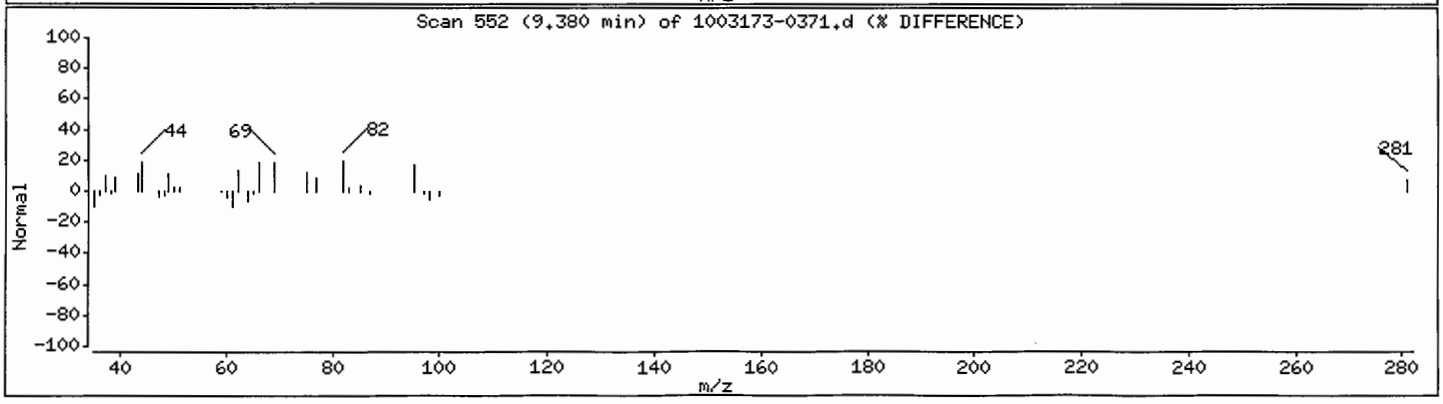
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 0.057 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d

Date : 31-MAR-2010 17:38

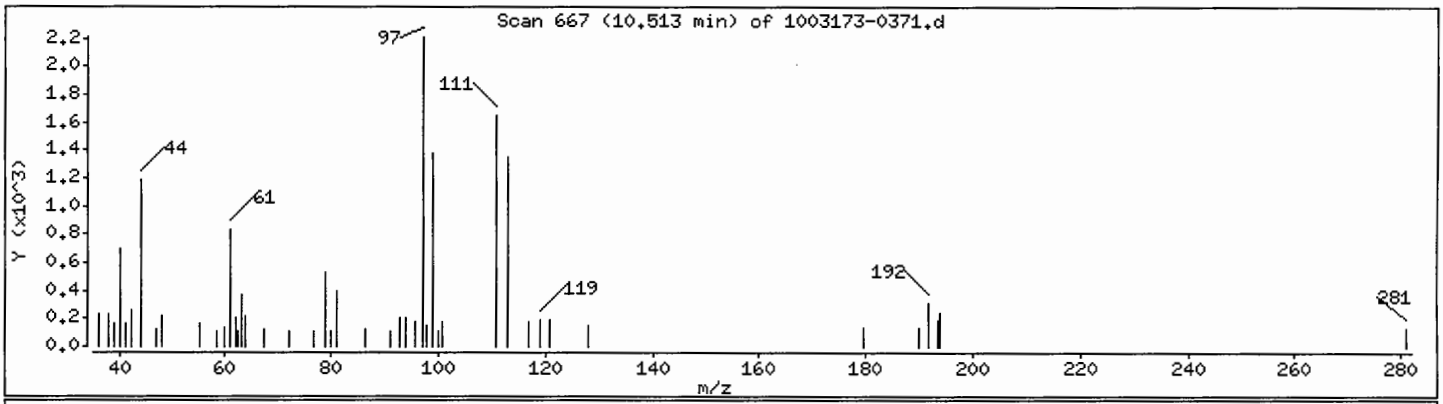
Client ID: MW-8 Instrument: 5972hp71.i

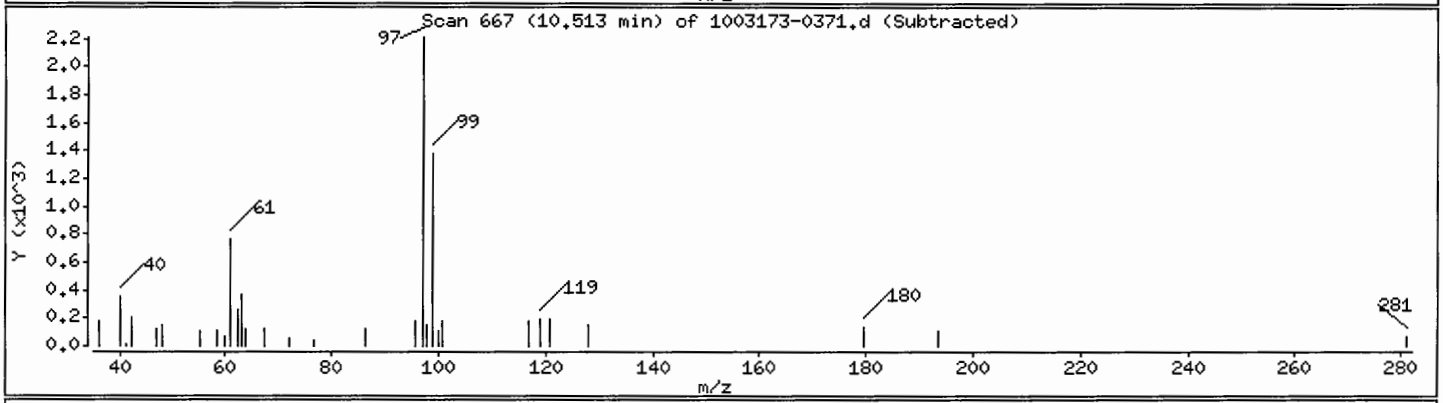
Sample Info: 1003173-03:JAO

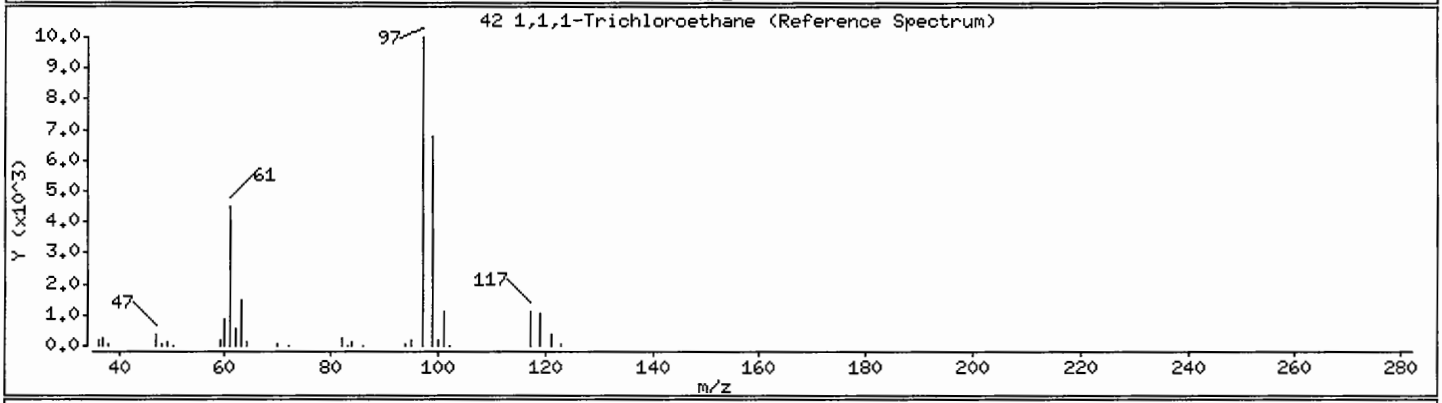
Purge Volume: 25.0 Operator: JAO

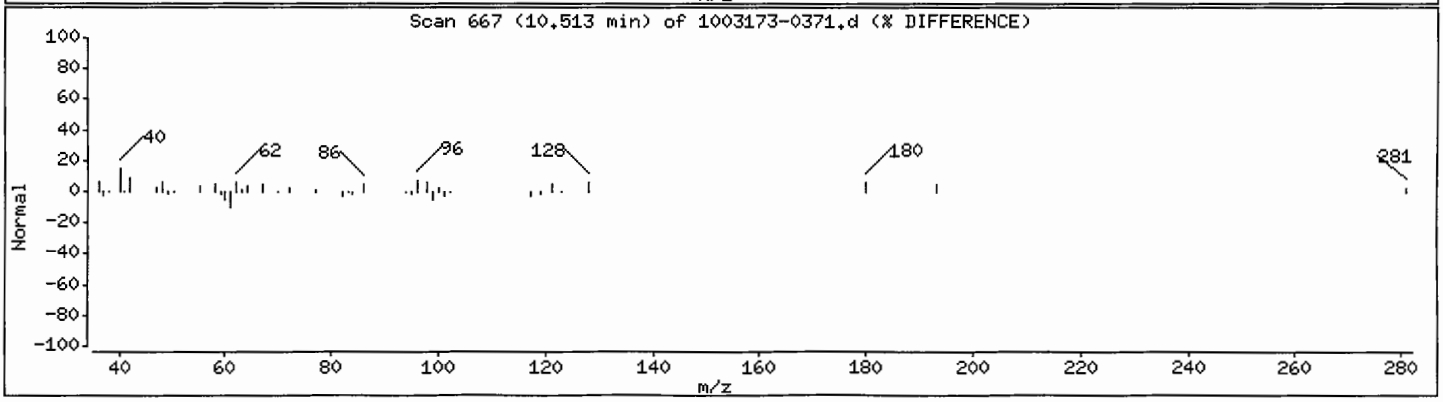
Column phase: SPB-624 Column diameter: 0.32

42 1,1,1-Trichloroethane Concentration: 0.10 ug/L









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Date : 31-MAR-2010 17:38

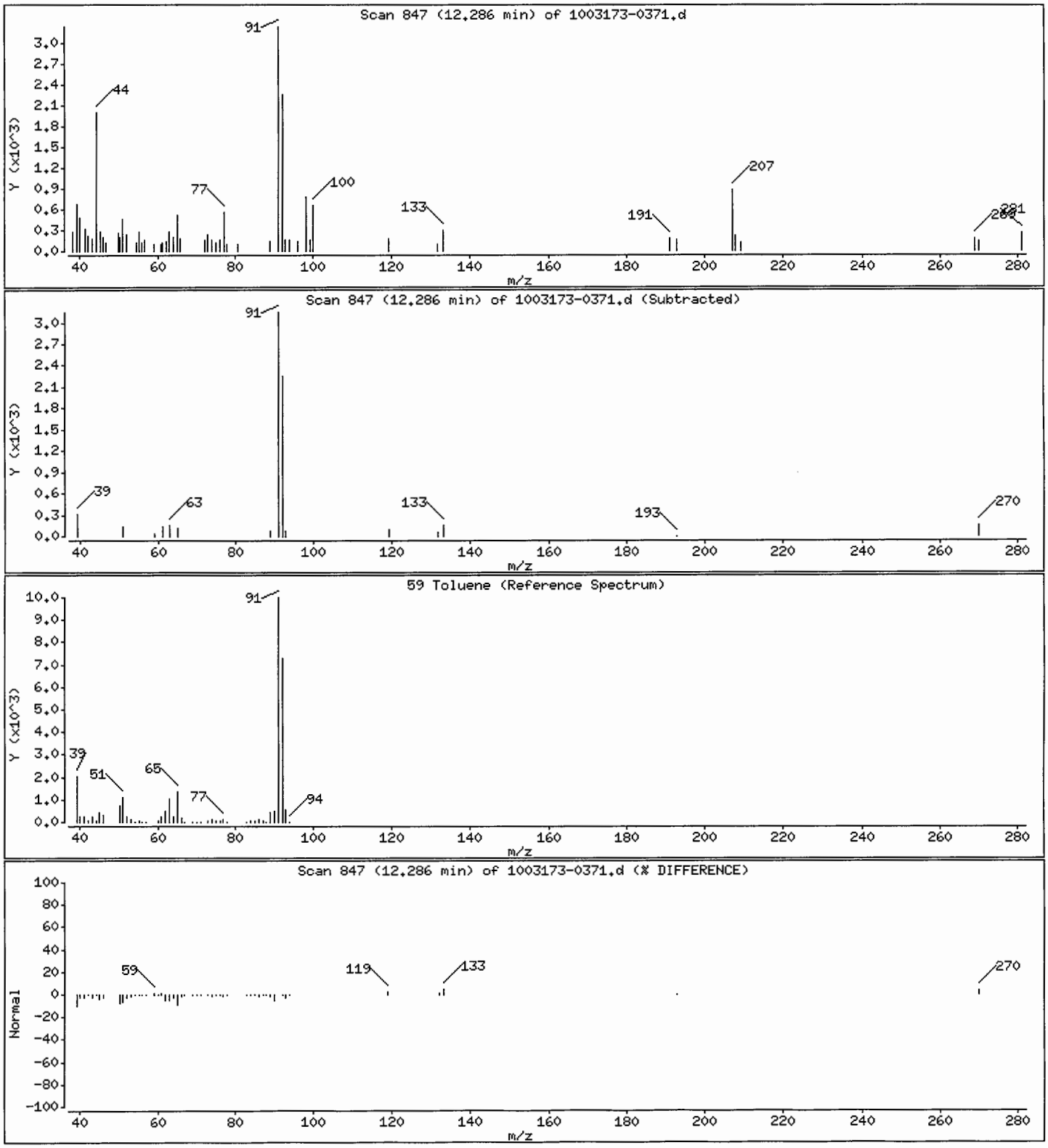
Client ID: MW-8 Instrument: 5972hp71.i

Sample Info: 1003173-03;JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

59 Toluene Concentration: 0.060 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0371.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0371.d
Lab Smp Id: 1003173-03 Client Smp ID: MW-8
Inj Date : 31-MAR-2010 17:38
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-03:JAO
Misc Info : MW-8
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-04

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0471

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	1.9	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	3.8	
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	0.98	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.47	JB
156-60-5	trans-1,2-Dichloroethene	0.34	J
107-13-1	Acrylonitrile	5.0	U
75-34-3	1,1-Dichloroethane	13	
108-05-4	Vinyl acetate	1.0	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	8.2	
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	3.0	
107-06-2	1,2-Dichloroethane	0.065	J
78-83-1	Isobutyl alcohol	25	U
79-01-6	Trichloroethene	1.2	
78-87-5	1,2-Dichloropropane	0.28	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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-04

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0471

Level: (low/med) LOW Date Received: 03/19/10

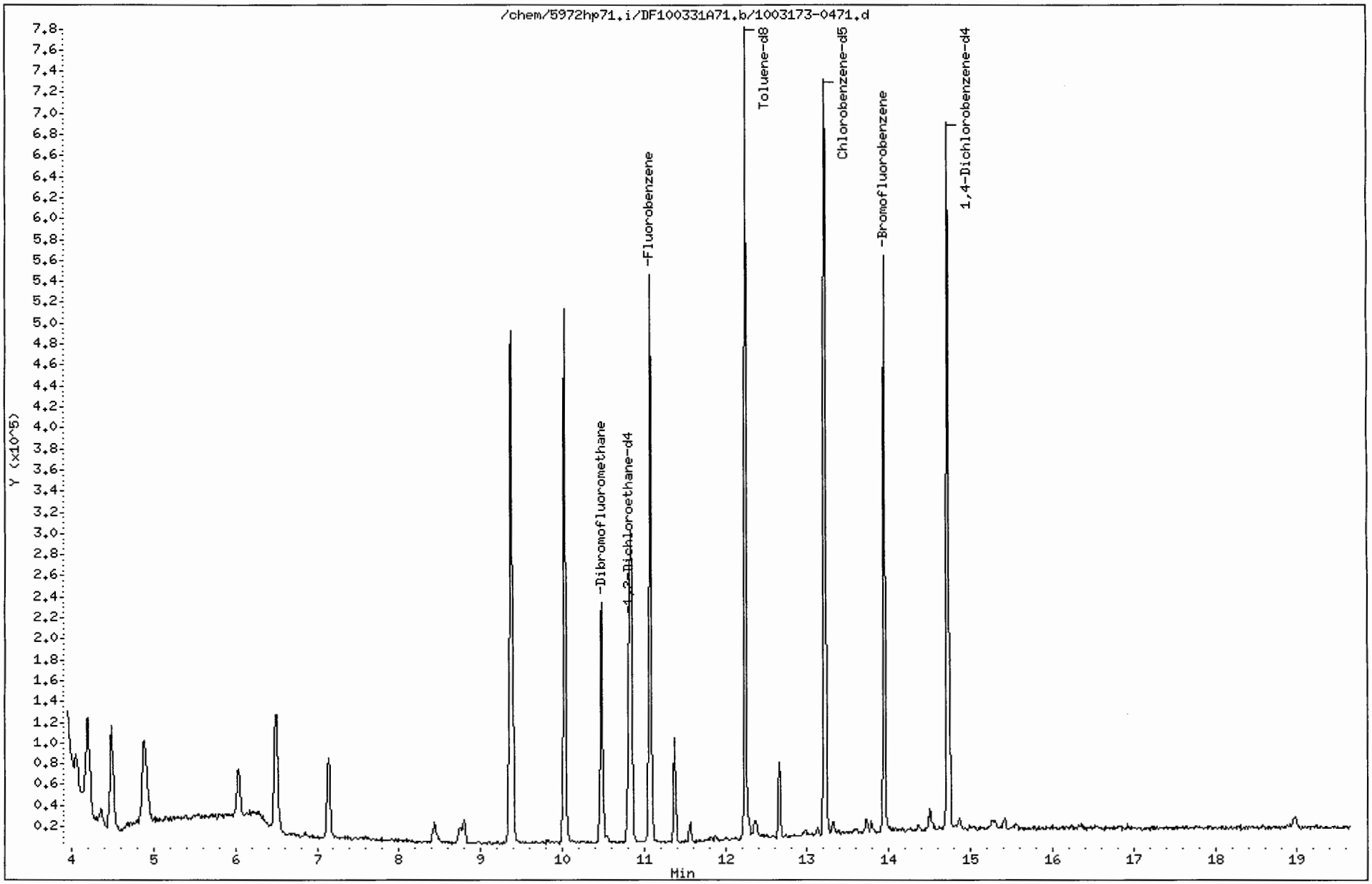
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.10	JB
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	0.36	J
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	0.41	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	2.0	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	1.2	
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

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Date : 31-MAR-2010 18:05
Client ID: MW-9
Instrument: 5972hp71.i
Sample Info: 1003173-04:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Lab Smp Id: 1003173-04 Client Smp ID: MW-9
Inj Date : 31-MAR-2010 18:05
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-04:JAO
Misc Info : MW-9
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	11.073	11.069	(1.000)	434202	125.000	
* 2 Chlorobenzene-d5	117	13.210	13.216	(1.000)	364255	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.718	14.714	(1.000)	144192	125.000	
$ 4 Dibromofluoromethane	113	10.481	10.478	(0.947)	143520	122.432	4.9
$ 5 1,2-Dichloroethane-d4	65	10.816	10.812	(0.977)	115149	131.970	5.3
$ 6 Toluene-d8	98	12.245	12.241	(0.927)	442692	112.288	4.5
$ 7 Bromofluorobenzene	95	13.940	13.936	(0.947)	194622	118.232	4.7
8 Dichlorodifluoromethane	85	4.146	4.143	(0.374)	16504	10.6482	0.43(a)
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	4.915	4.921	(0.444)	44214	46.9386	1.9
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	6.038	6.034	(0.545)	54425	95.0245	3.8
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	7.674	7.689	(0.693)	2624	24.4553	0.98(a)
19 Iodomethane	142	Compound Not Detected.					

4-7-10

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	8.422	8.428	(0.761)	8433	11.8505	0.47(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	8.797	8.793	(0.794)	8233	8.48689	0.34(a)
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	9.378	9.374	(0.847)	567373	316.547	13
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	10.028	10.024	(0.906)	203336	206.231	8.2
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	10.836	10.842	(0.979)	203303	73.9616	3.0
48 1,2-Dichloroethane	62	10.875	10.881	(0.982)	1826	1.62171	0.065(a)
49 Trichloroethene	130	11.378	11.374	(1.028)	24484	29.2810	1.2
51 1,2-Dichloropropane	63	11.565	11.561	(1.044)	5404	7.11587	0.28(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	12.294	12.290	(0.931)	6019	2.51157	0.10(a)
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	12.659	12.665	(0.958)	13927	9.03928	0.36(a)
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	13.240	13.236	(1.002)	30918	10.1554	0.41(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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	14.738	14.734	(1.001)	54201	30.9961	1.2
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

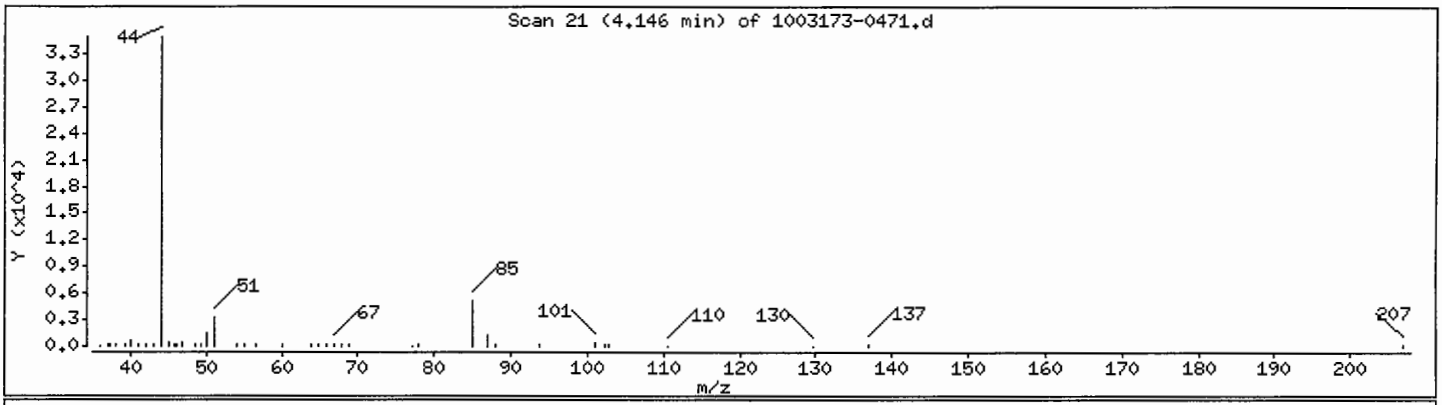
Client ID: MW-9 Instrument: 5972hp71.i

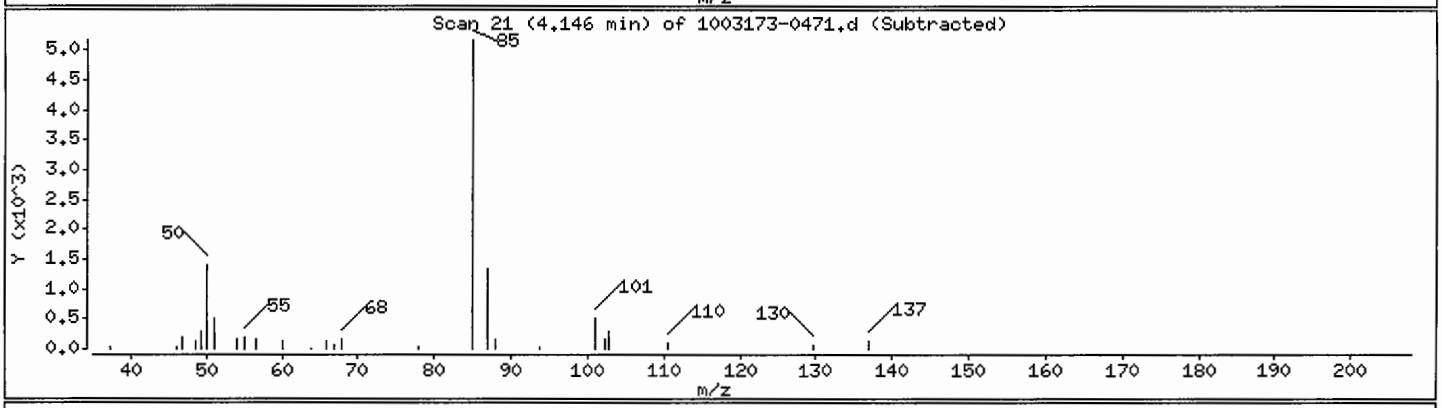
Sample Info: 1003173-04:JAO

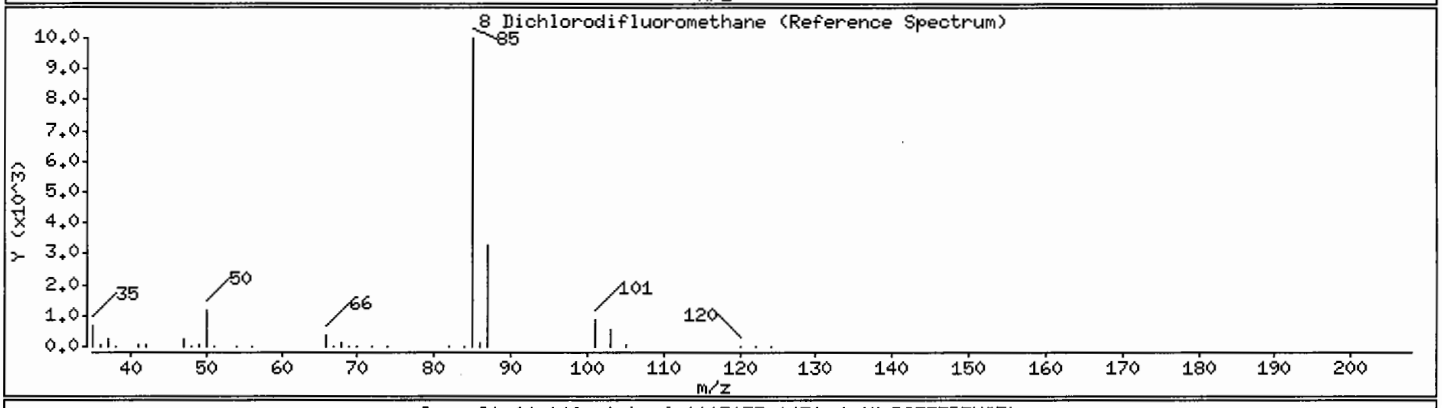
Purge Volume: 25.0 Operator: JAO

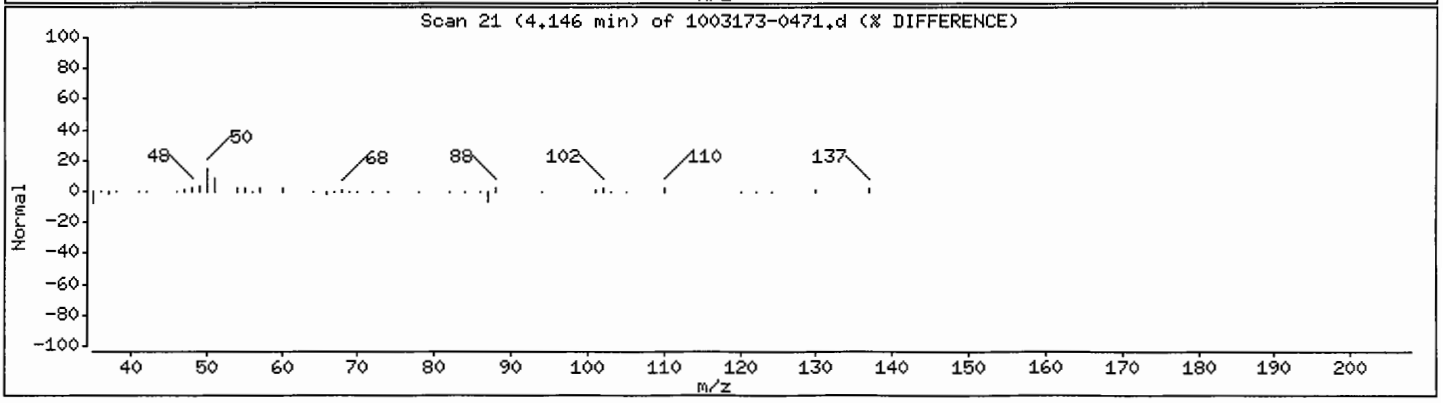
Column phase: SPB-624 Column diameter: 0.32

8 Dichlorodifluoromethane Concentration: 0.43 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

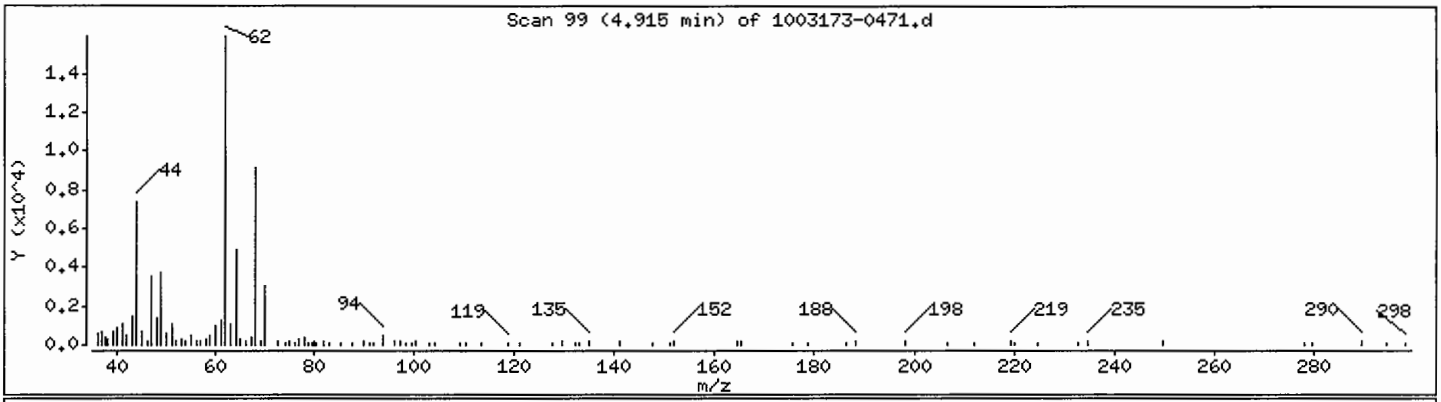
Client ID: MW-9 Instrument: 5972hp71.i

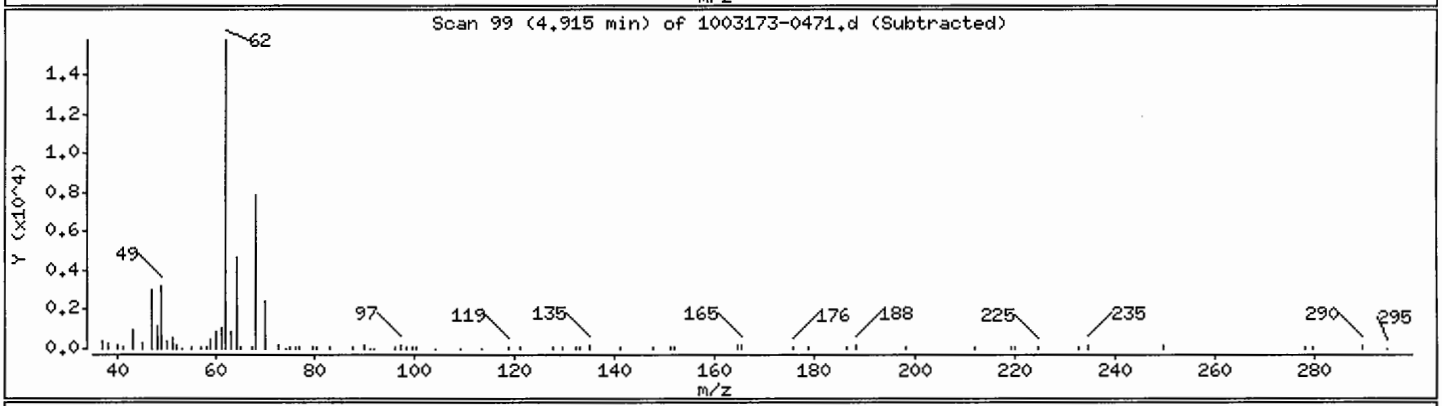
Sample Info: 1003173-04:JAO

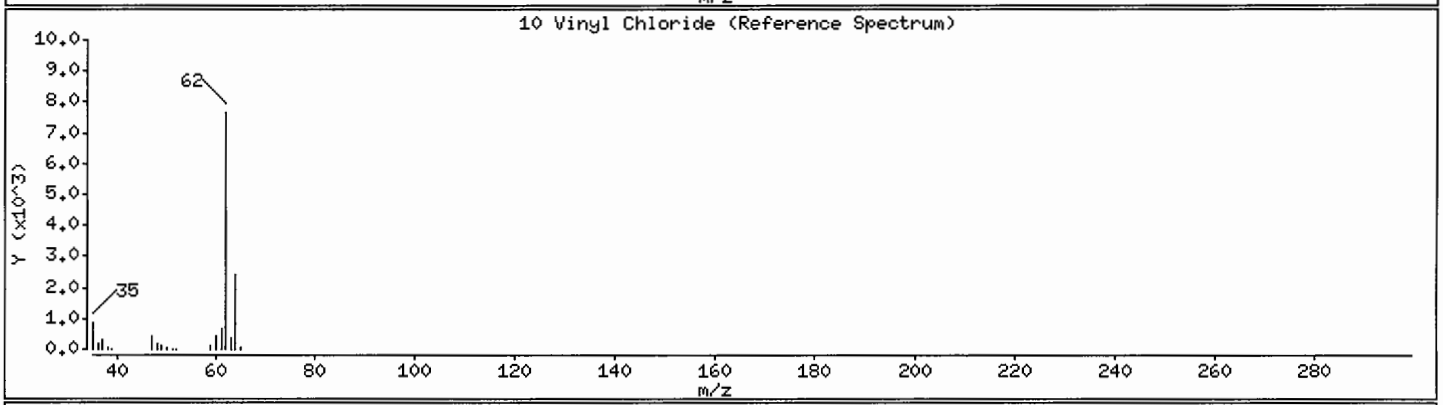
Purge Volume: 25.0 Operator: JAO

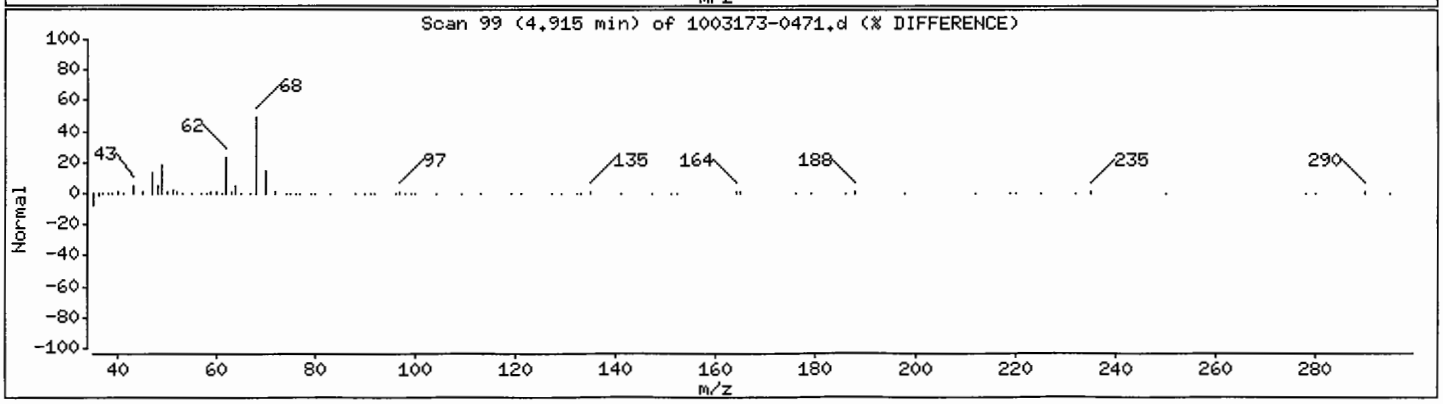
Column phase: SPB-624 Column diameter: 0.32

10 Vinyl Chloride Concentration: 1.9 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

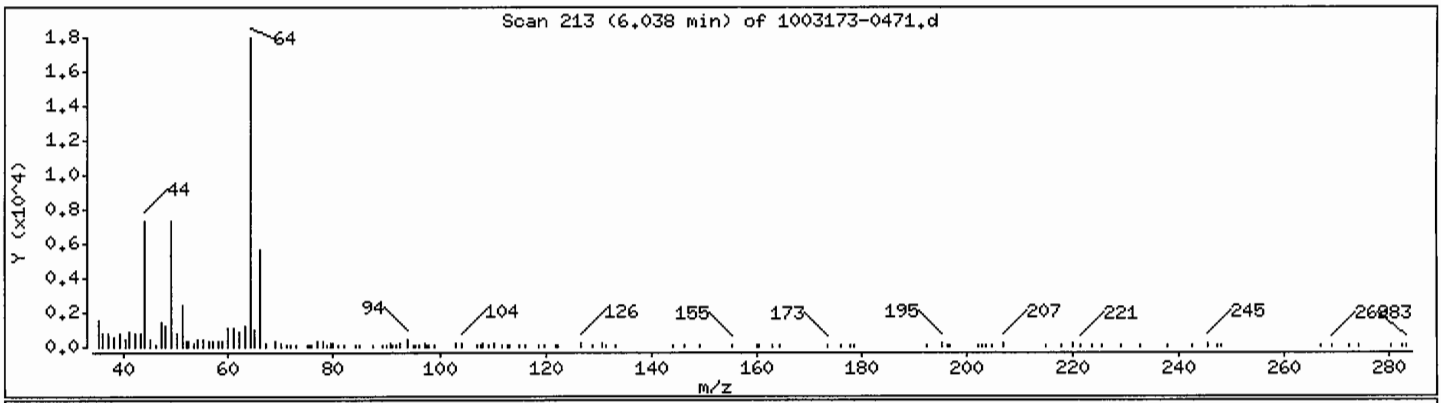
Client ID: MW-9 Instrument: 5972hp71.i

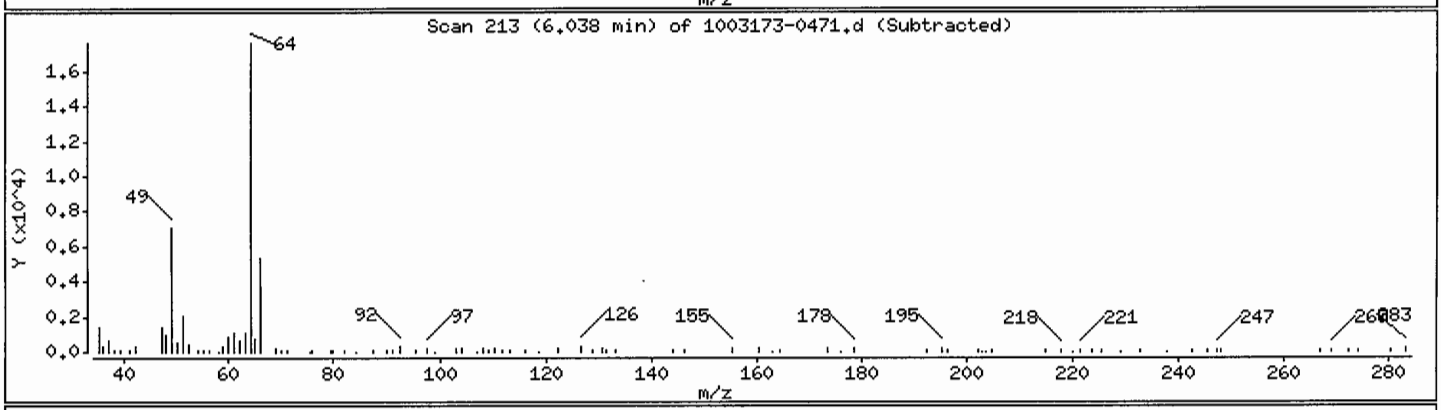
Sample Info: 1003173-04:JAO

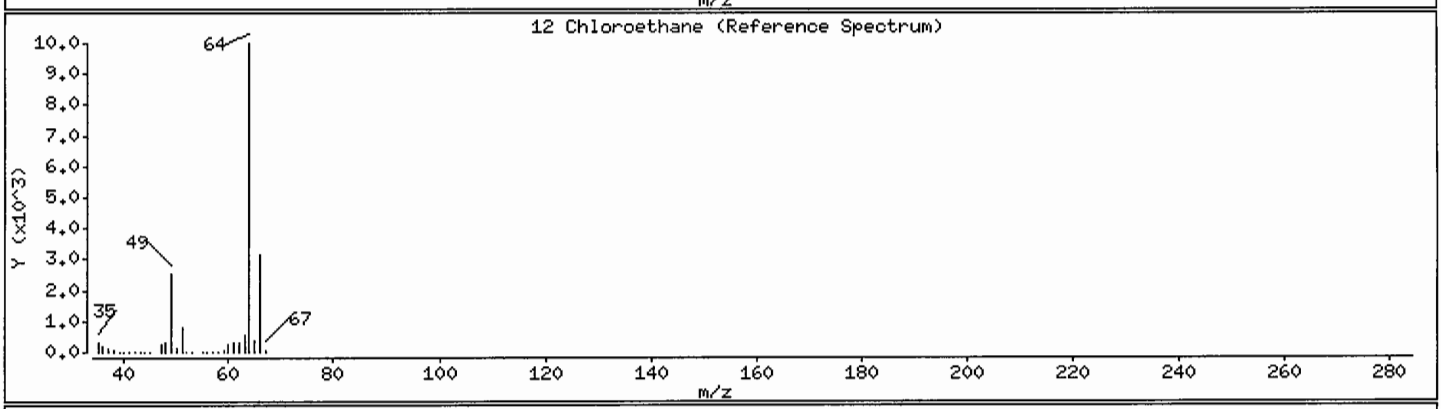
Purge Volume: 25.0 Operator: JAO

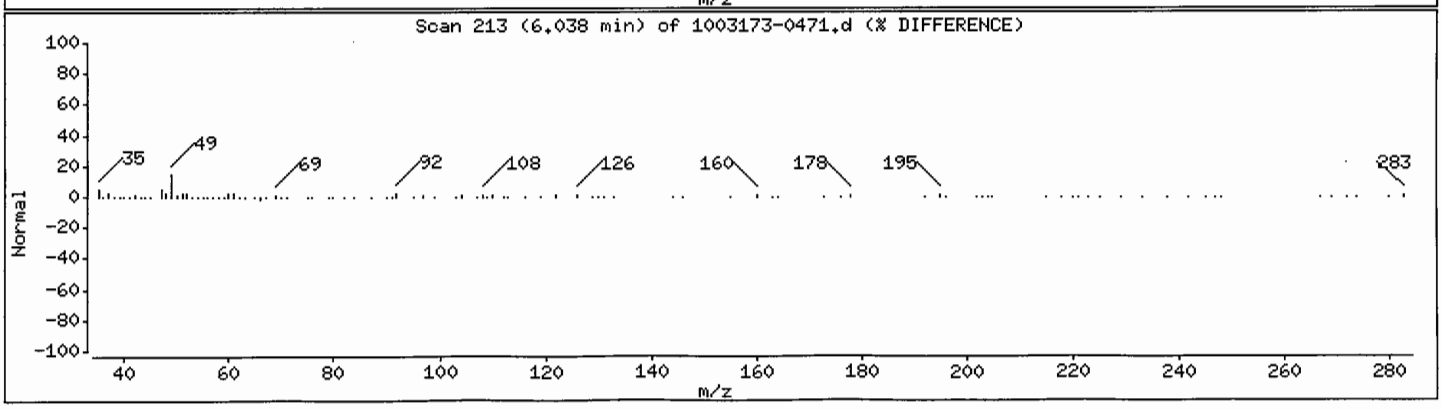
Column phase: SPB-624 Column diameter: 0.32

12 Chloroethane Concentration: 3.8 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

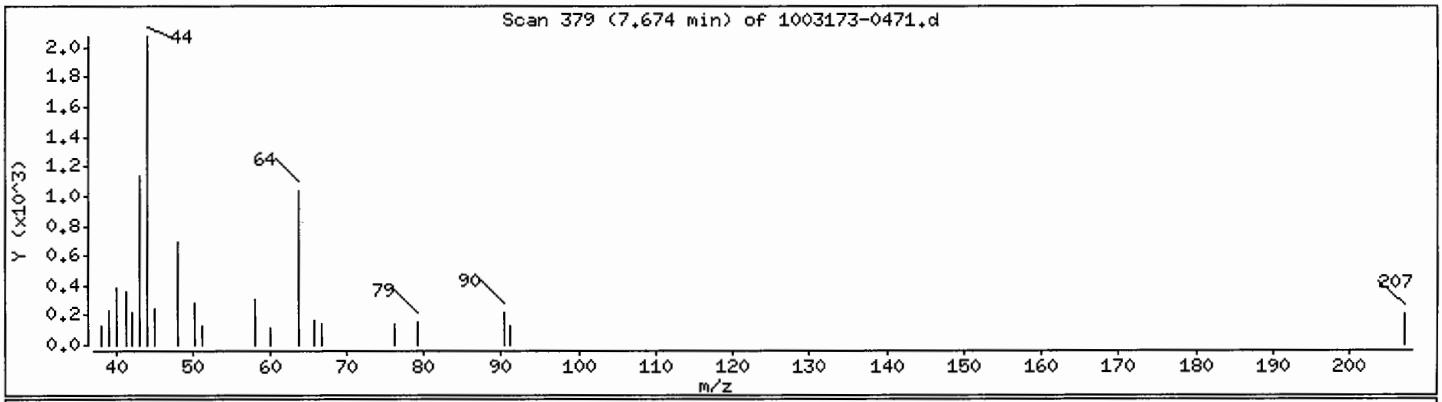
Client ID: MW-9 Instrument: 5972hp71.i

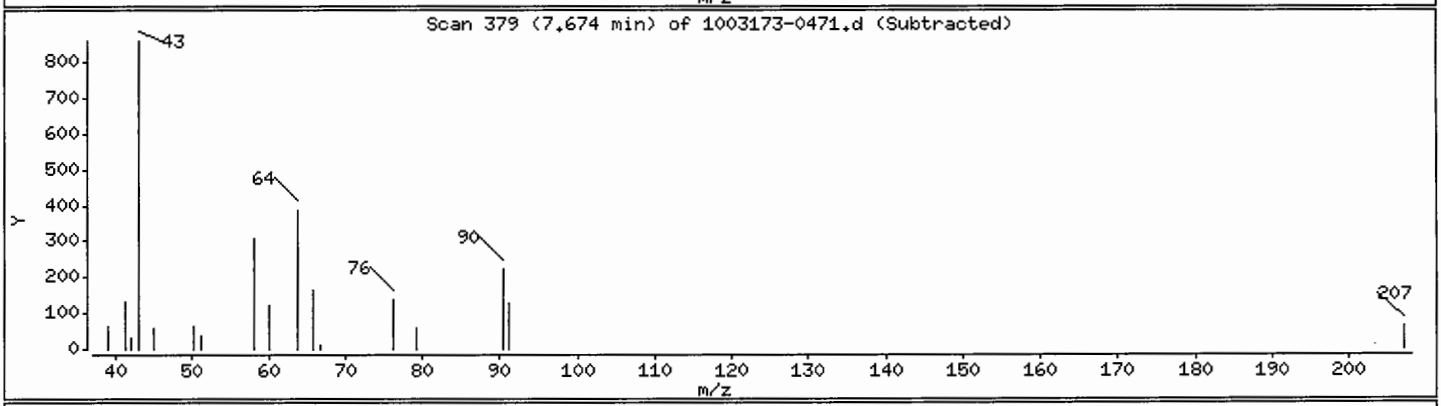
Sample Info: 1003173-04:JAO

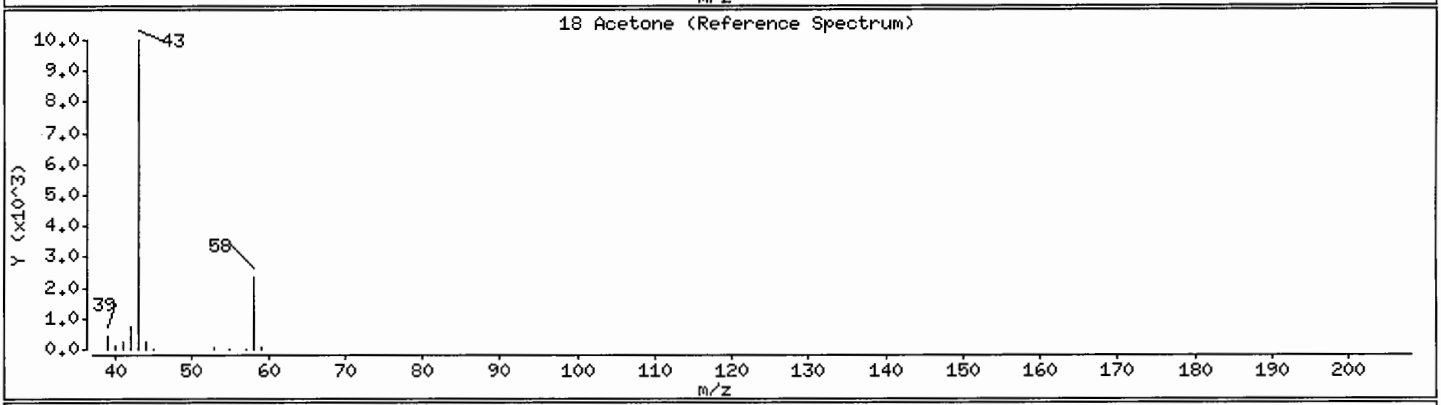
Purge Volume: 25.0 Operator: JAO

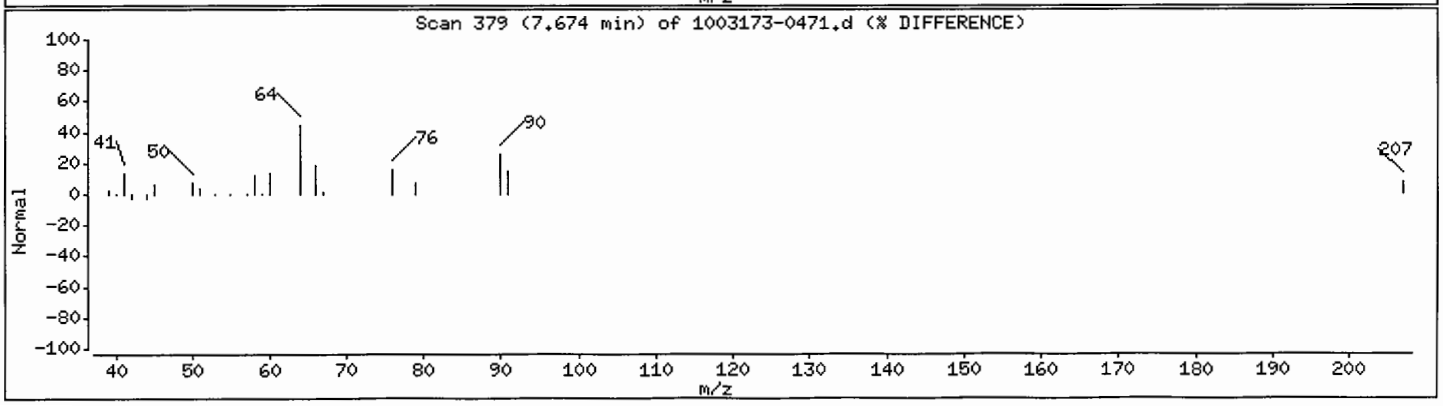
Column phase: SPB-624 Column diameter: 0.32

18 Acetone Concentration: 0.98 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

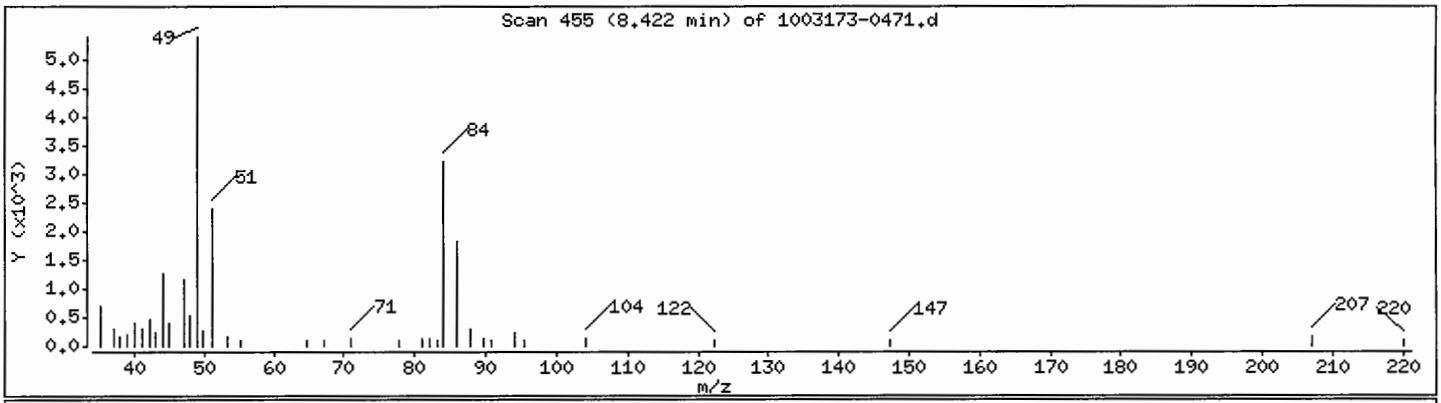
Client ID: MW-9 Instrument: 5972hp71.i

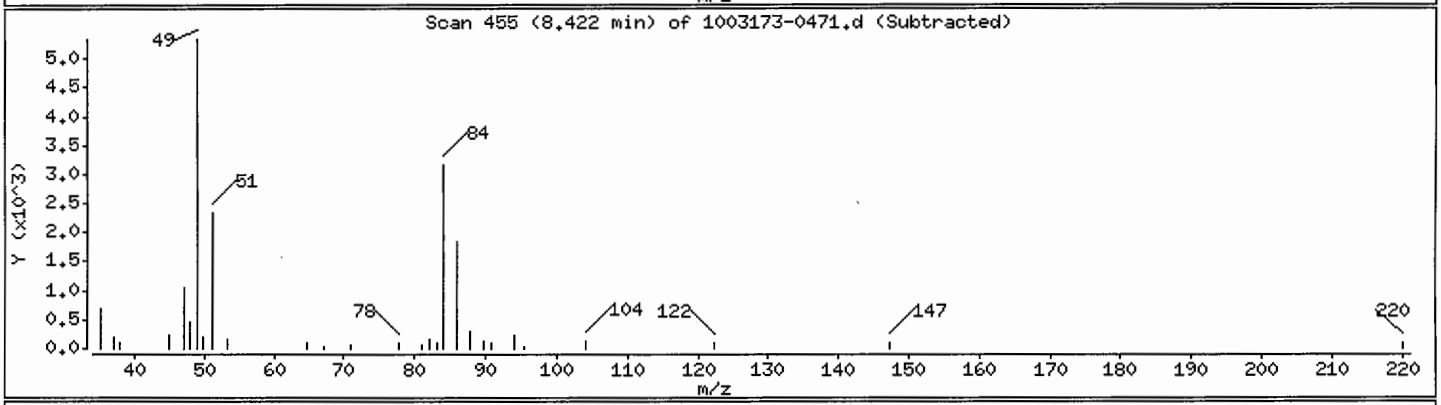
Sample Info: 1003173-04:JAO

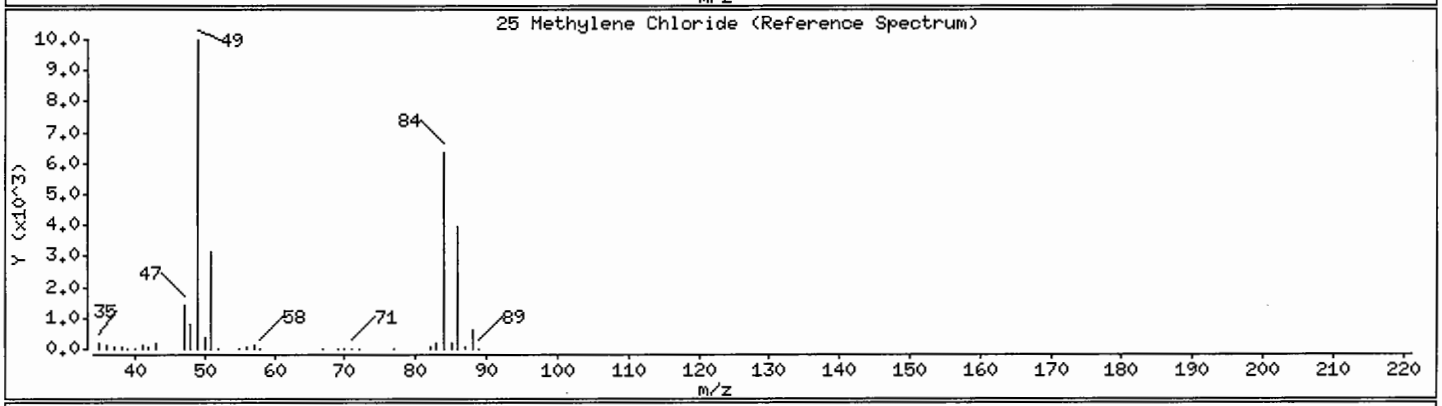
Purge Volume: 25.0 Operator: JAO

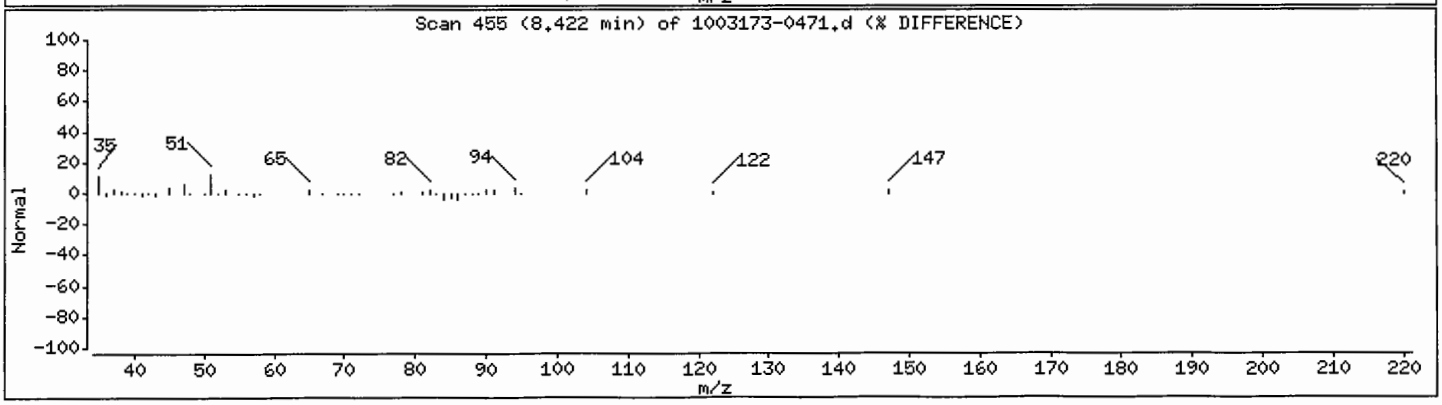
Column phase: SPB-624 Column diameter: 0.32

25 Methylene Chloride Concentration: 0.47 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

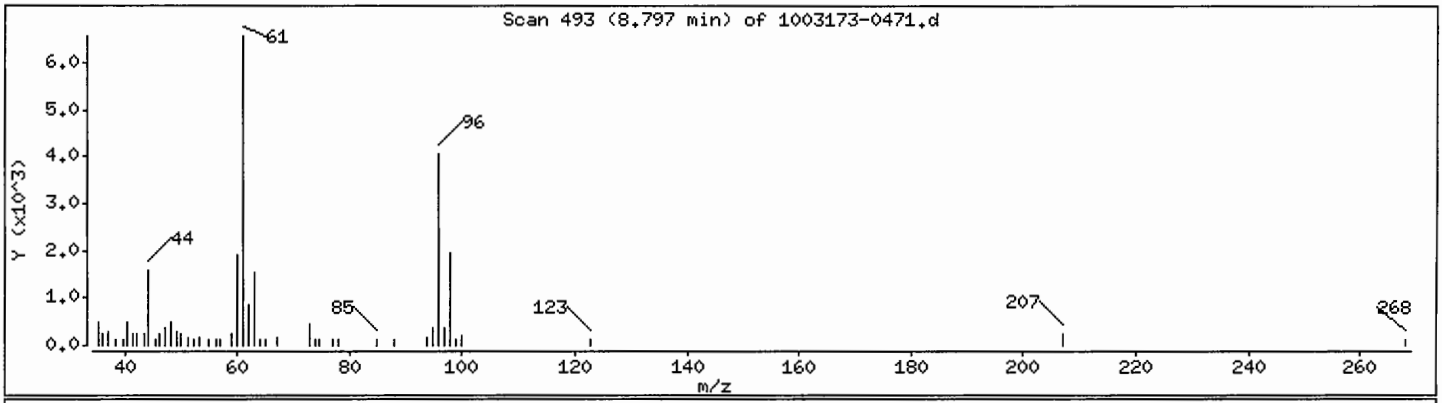
Client ID: MW-9 Instrument: 5972hp71.i

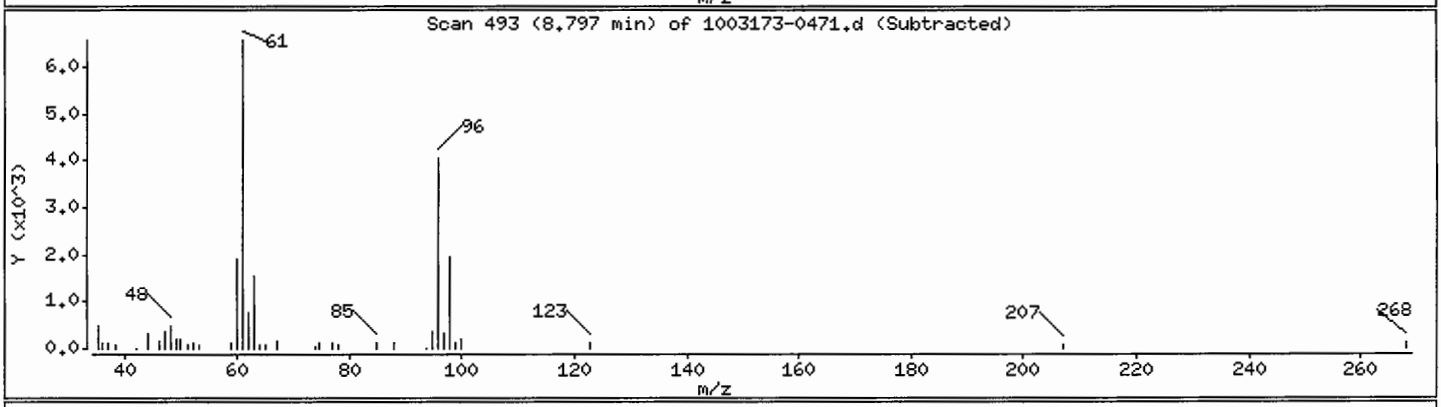
Sample Info: 1003173-04:JAO

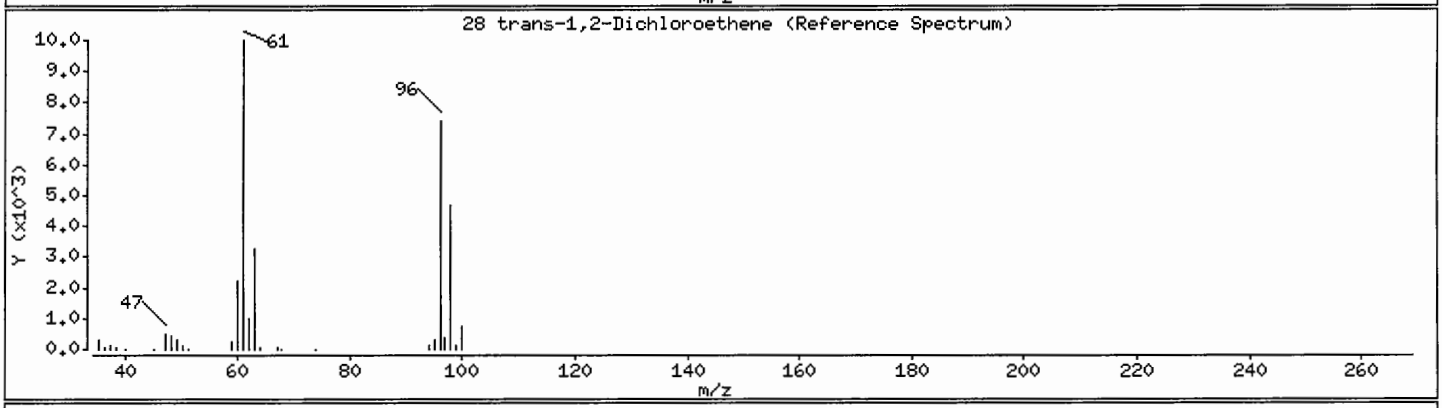
Purge Volume: 25.0 Operator: JAO

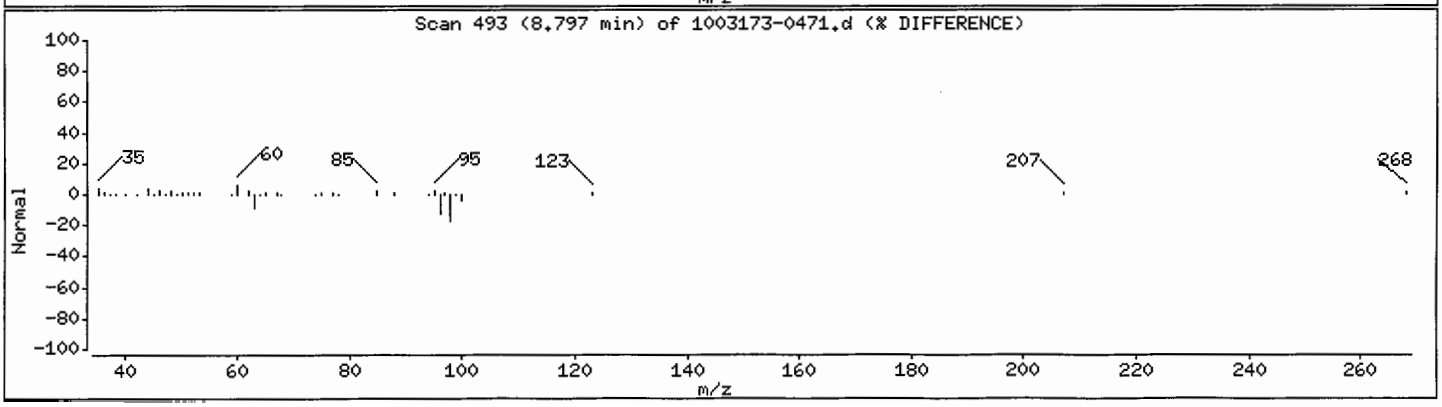
Column phase: SPB-624 Column diameter: 0.32

28 trans-1,2-Dichloroethene Concentration: 0.34 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

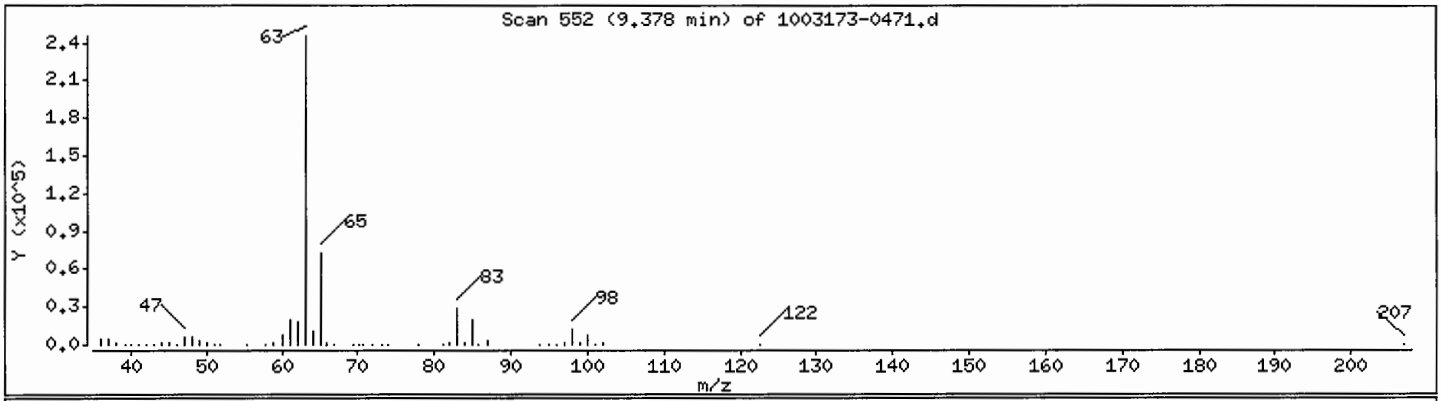
Client ID: MW-9 Instrument: 5972hp71.i

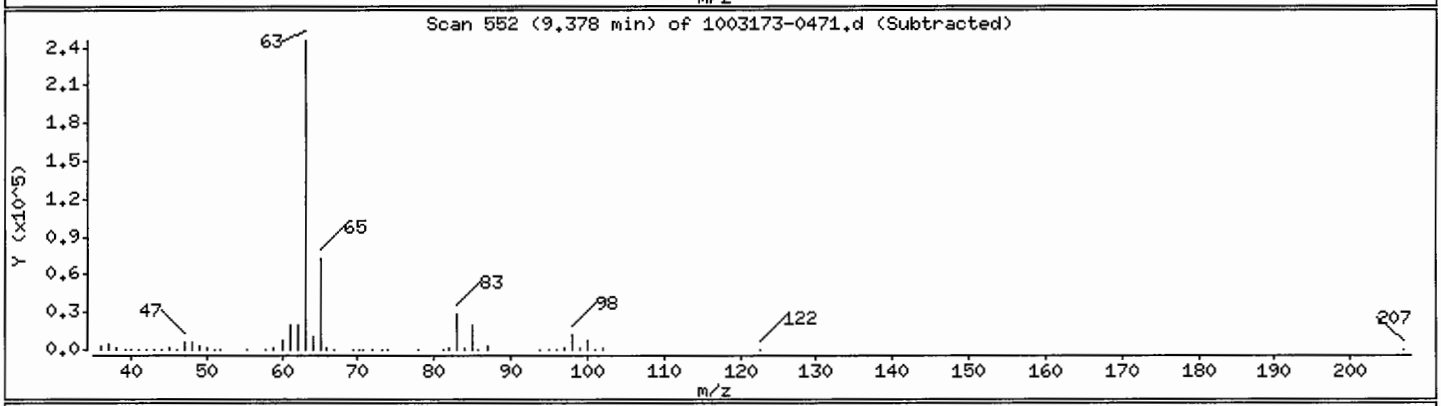
Sample Info: 1003173-04:JAO

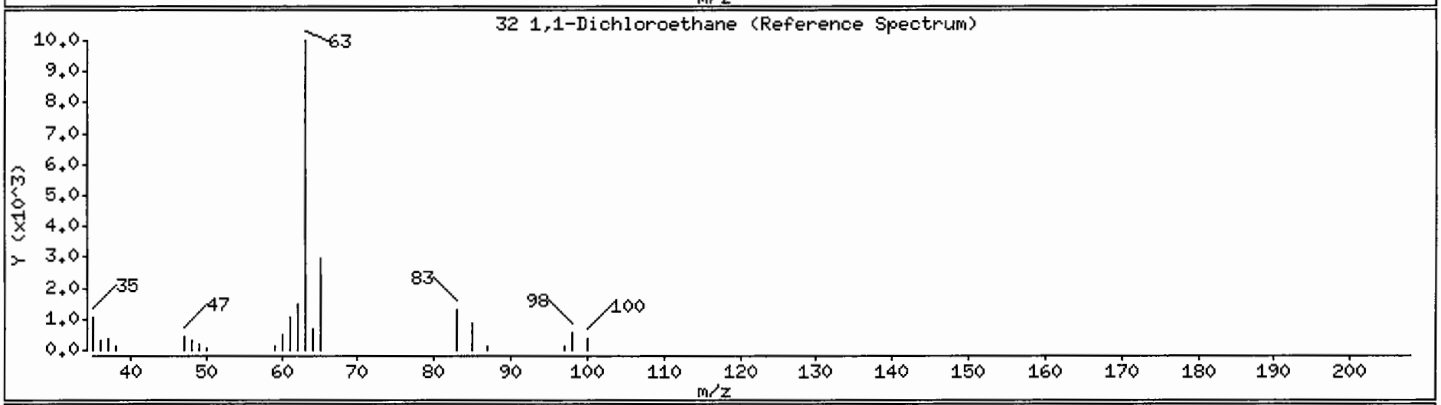
Purge Volume: 25.0 Operator: JAO

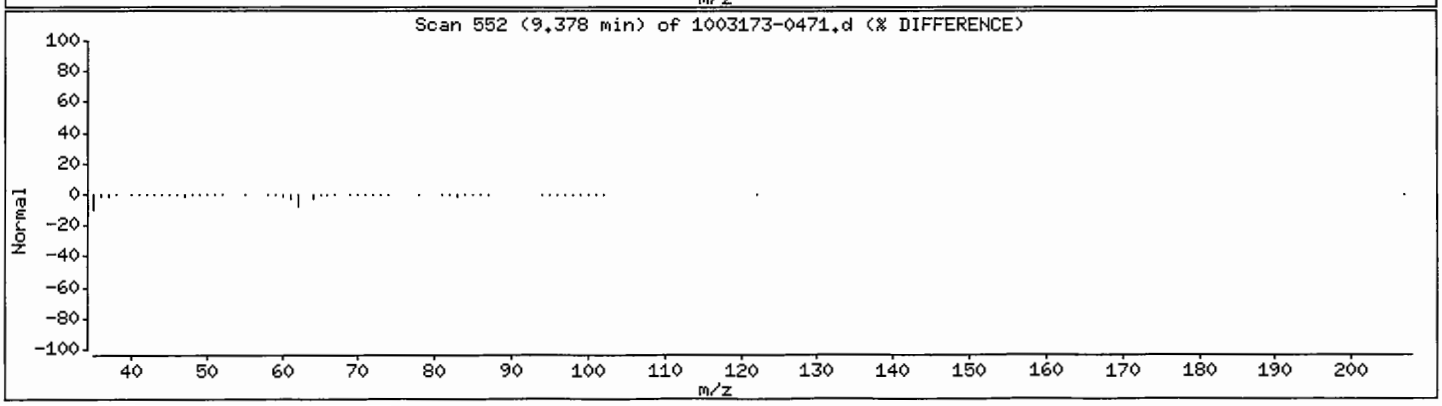
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 13 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

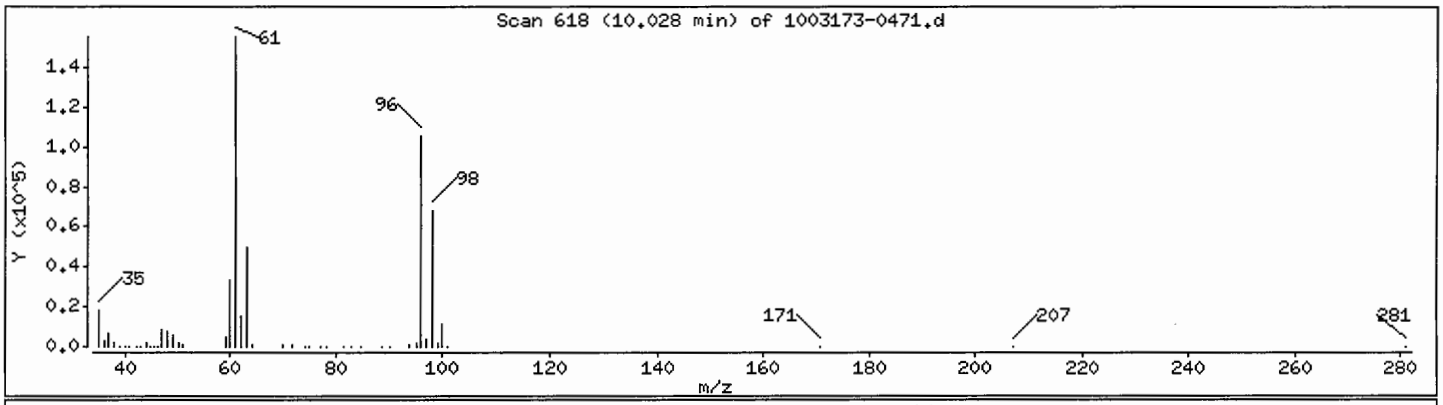
Client ID: MW-9 Instrument: 5972hp71.i

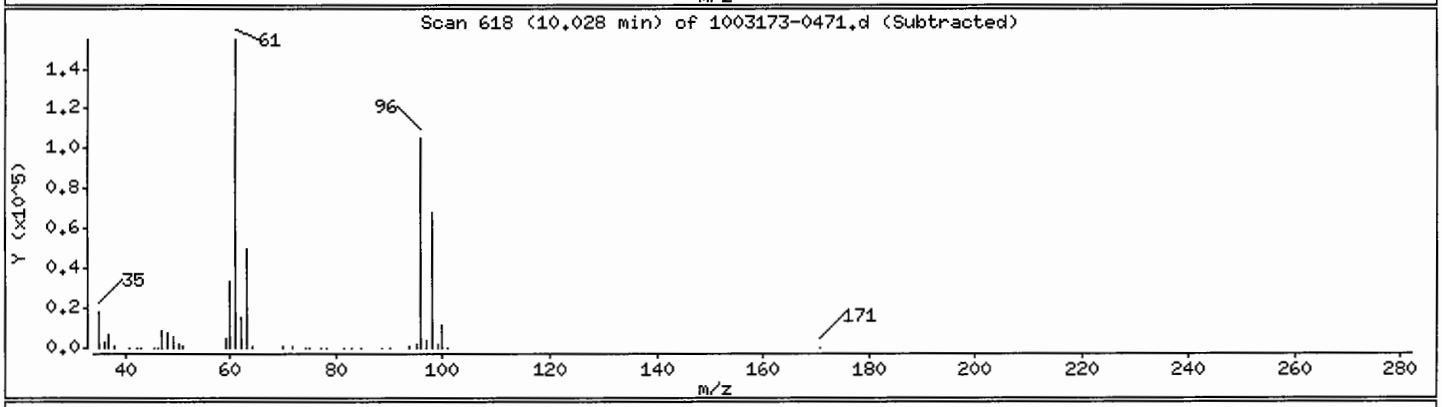
Sample Info: 1003173-04:JAO

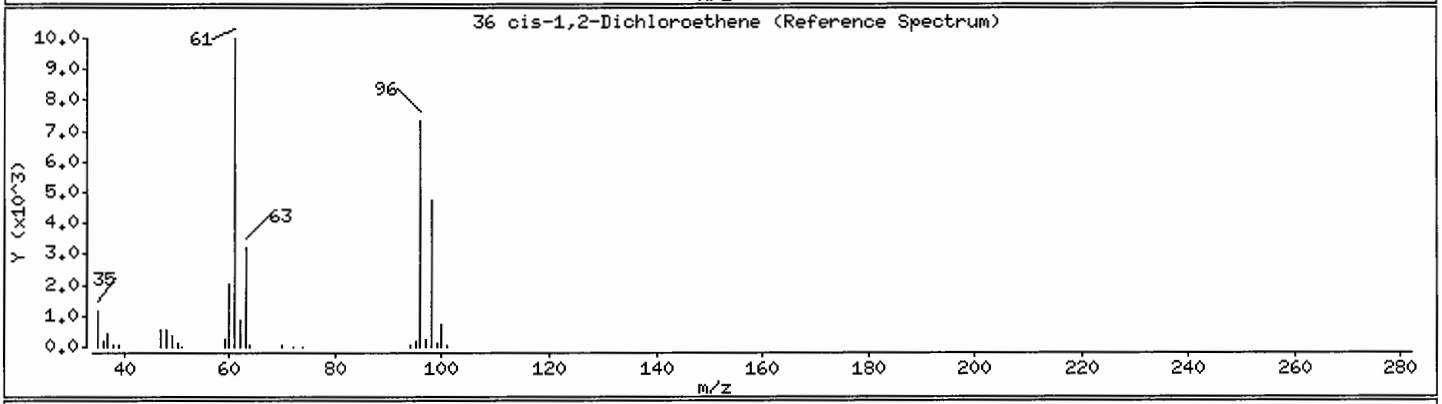
Purge Volume: 25.0 Operator: JAO

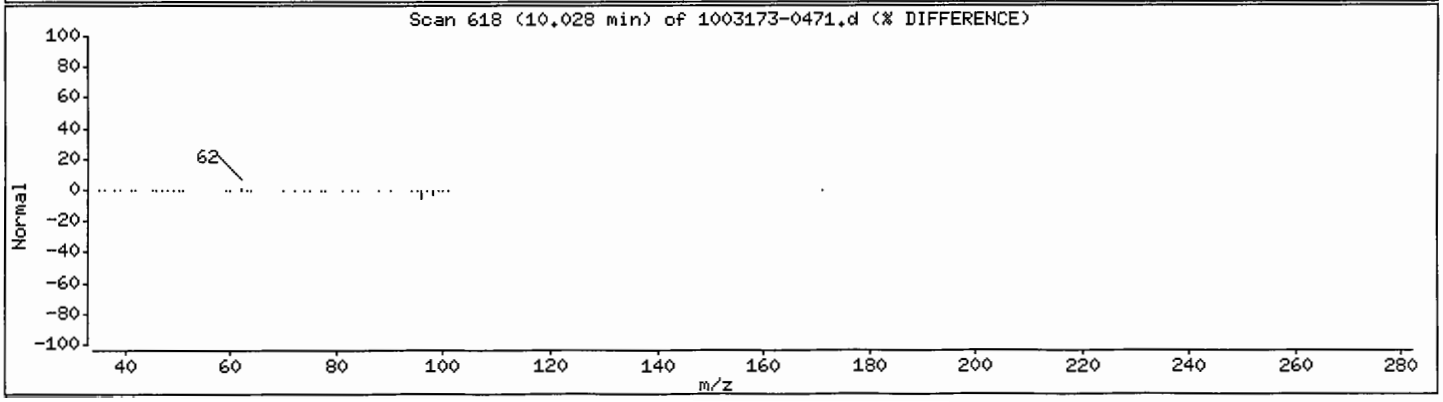
Column phase: SPB-624 Column diameter: 0.32

36 cis-1,2-Dichloroethene Concentration: 8.2 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

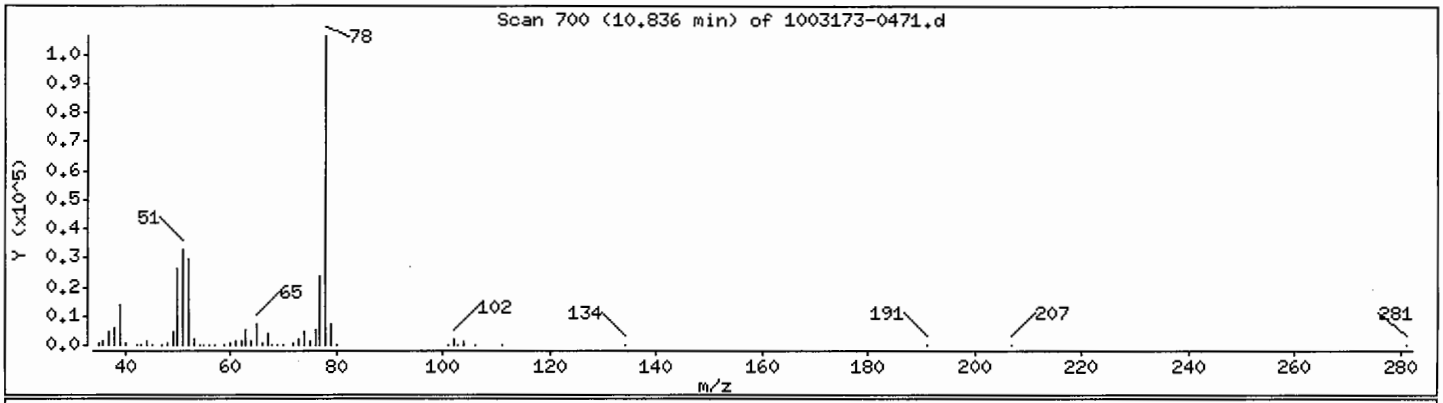
Client ID: MW-9 Instrument: 5972hp71.i

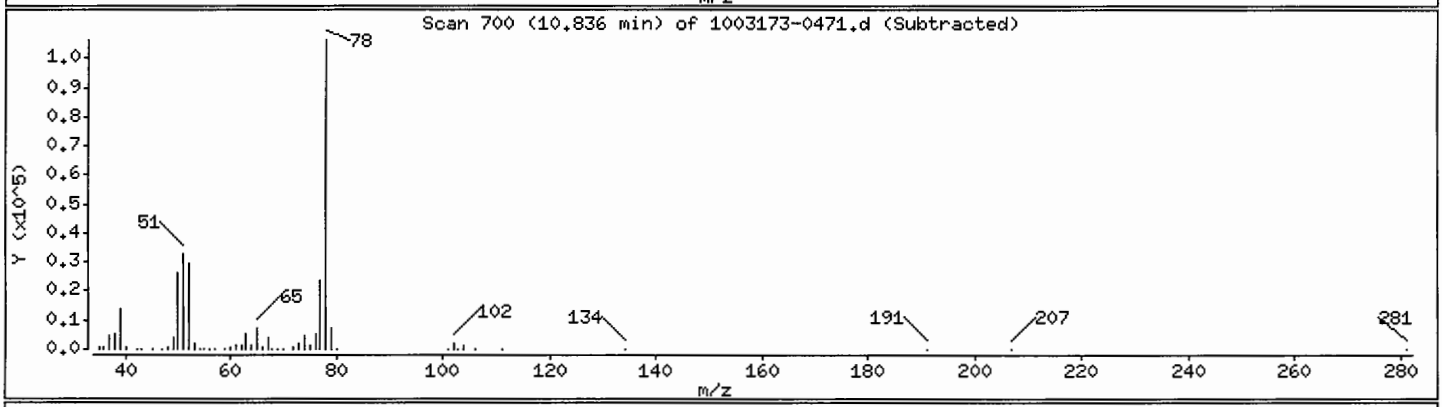
Sample Info: 1003173-04:JAO

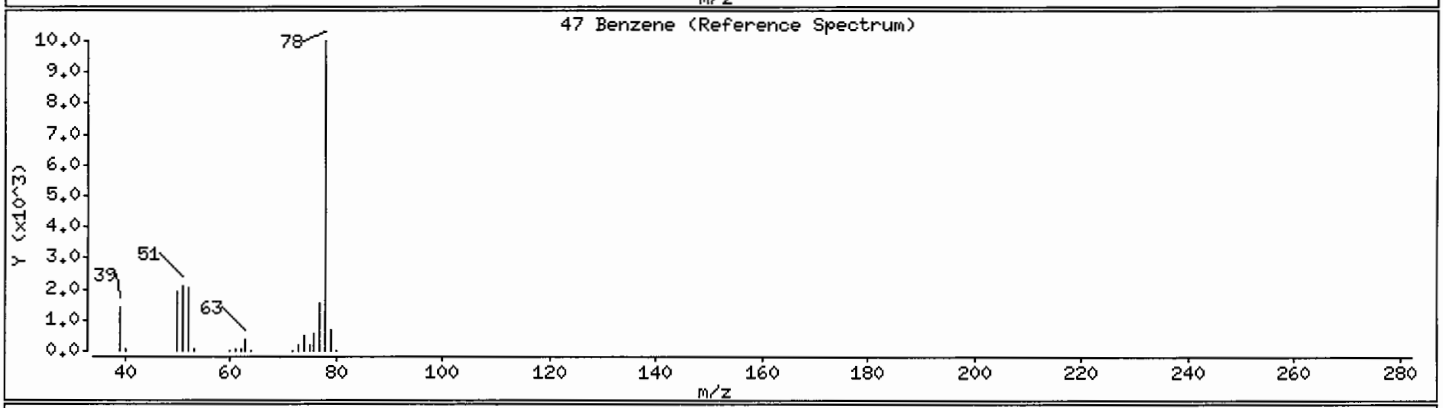
Purge Volume: 25.0 Operator: JAO

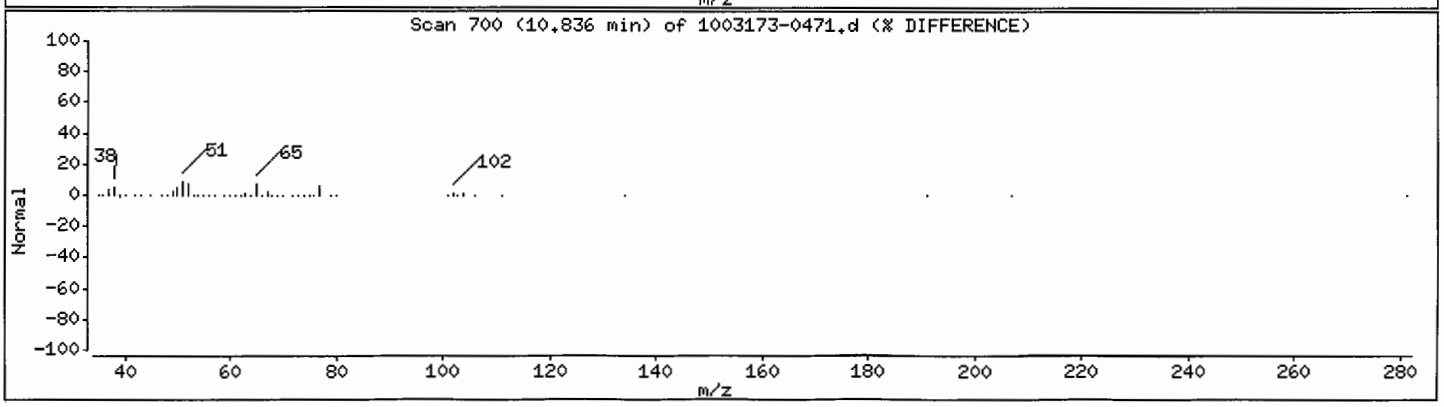
Column phase: SPB-624 Column diameter: 0.32

47 Benzene Concentration: 3.0 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

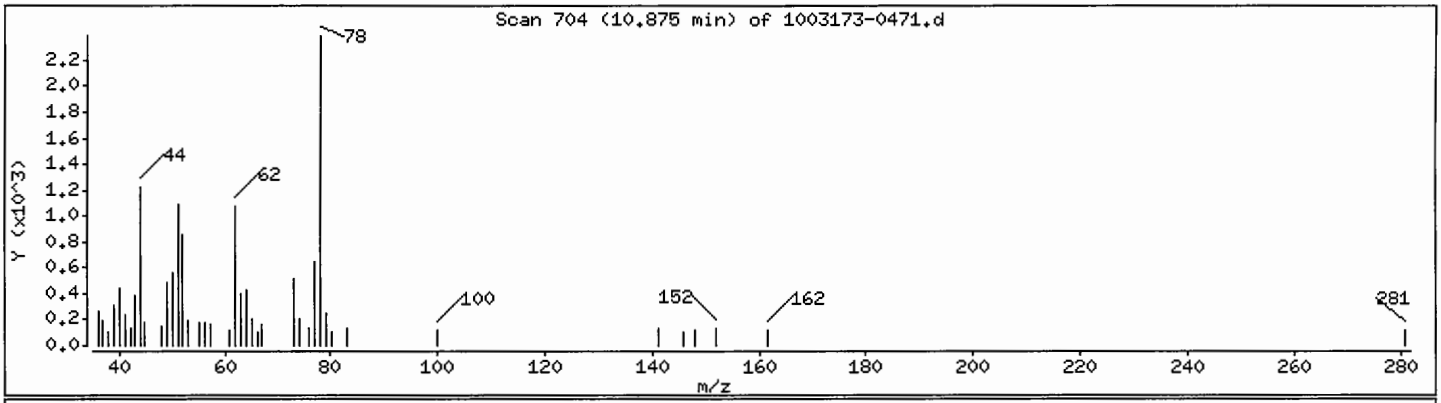
Client ID: MW-9 Instrument: 5972hp71.i

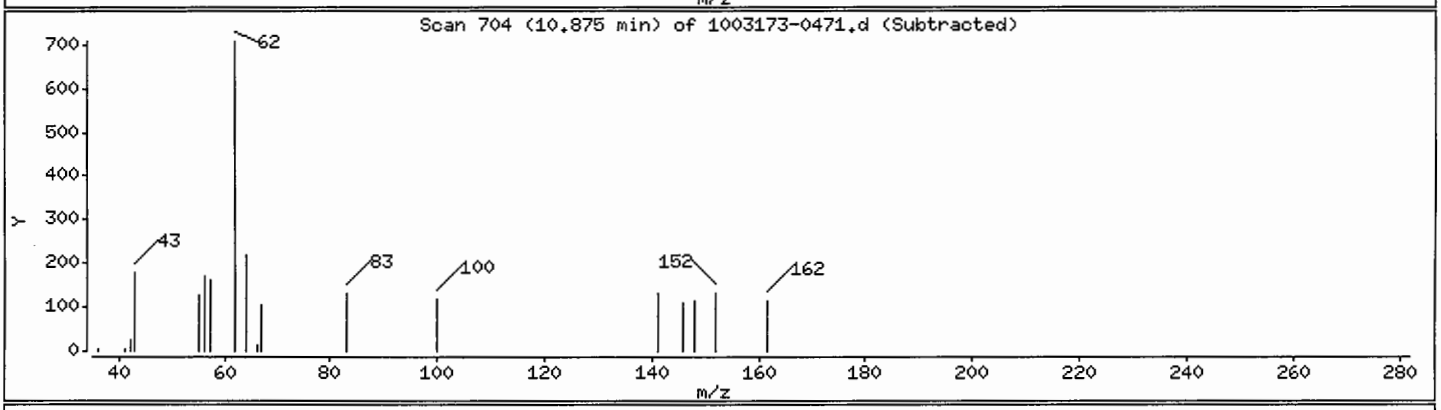
Sample Info: 1003173-04:JAO

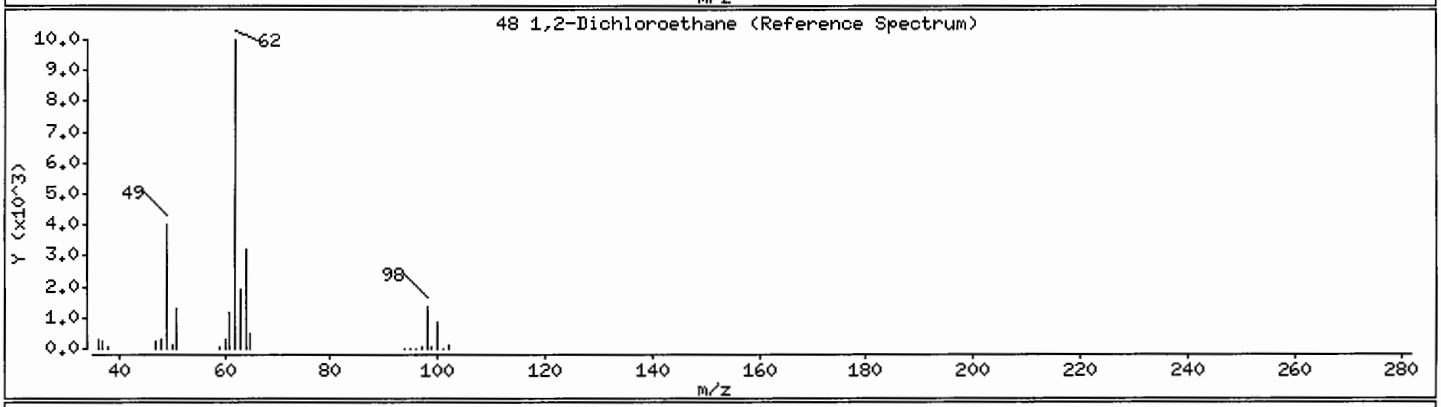
Purge Volume: 25.0 Operator: JAO

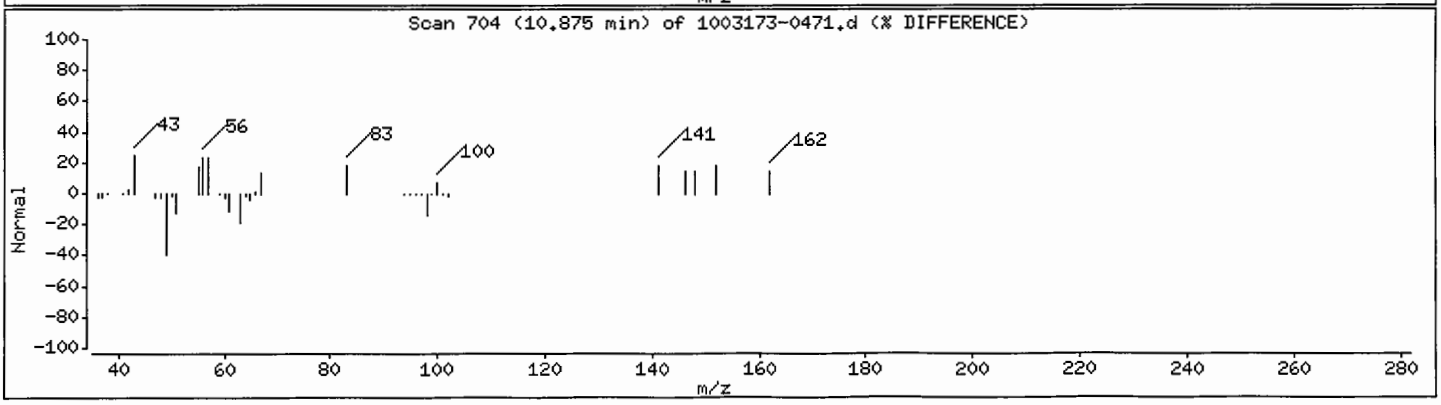
Column phase: SPB-624 Column diameter: 0.32

48 1,2-Dichloroethane Concentration: 0.065 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

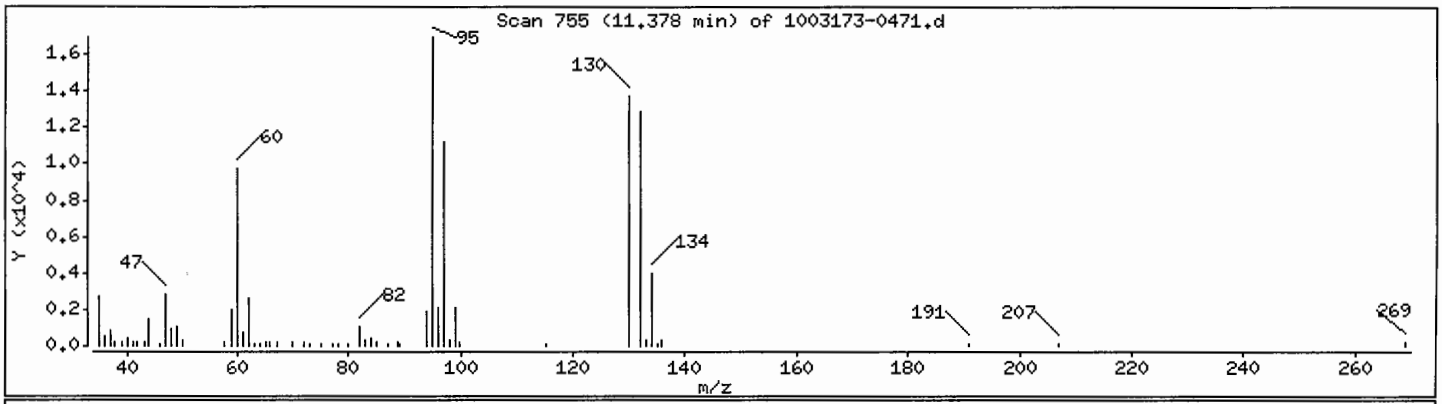
Client ID: MW-9 Instrument: 5972hp71.i

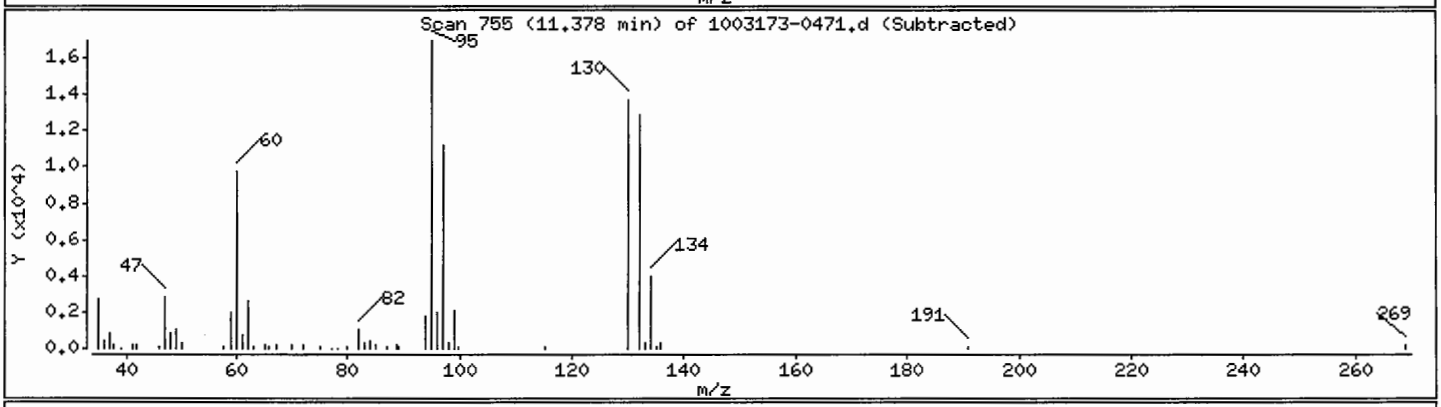
Sample Info: 1003173-04:JAO

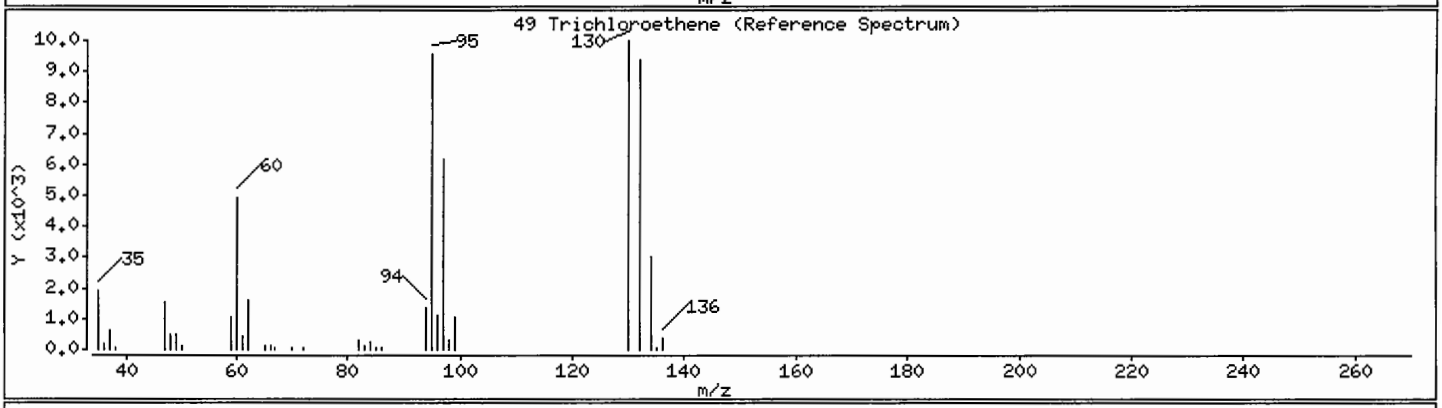
Purge Volume: 25.0 Operator: JAO

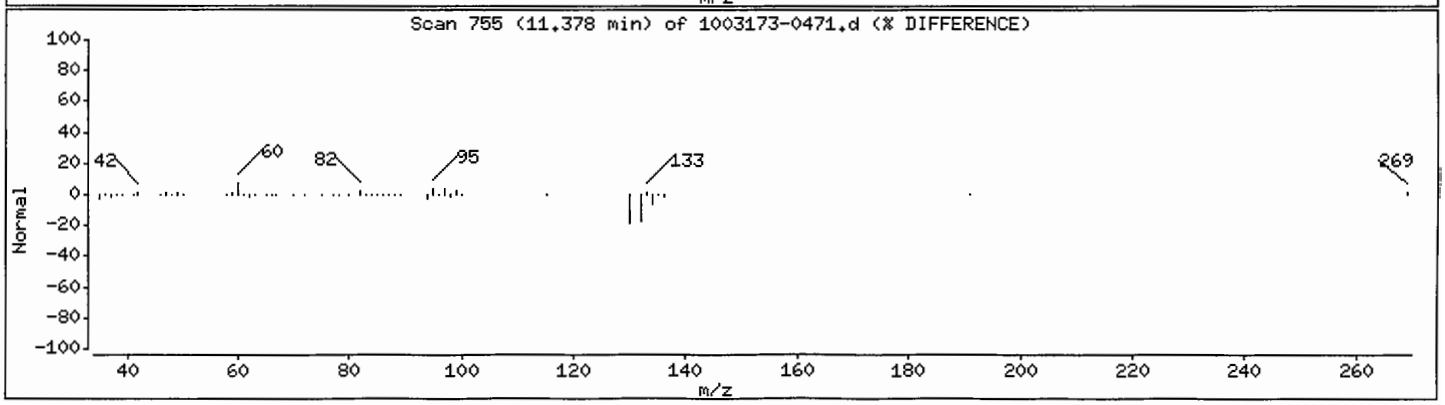
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 1.2 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

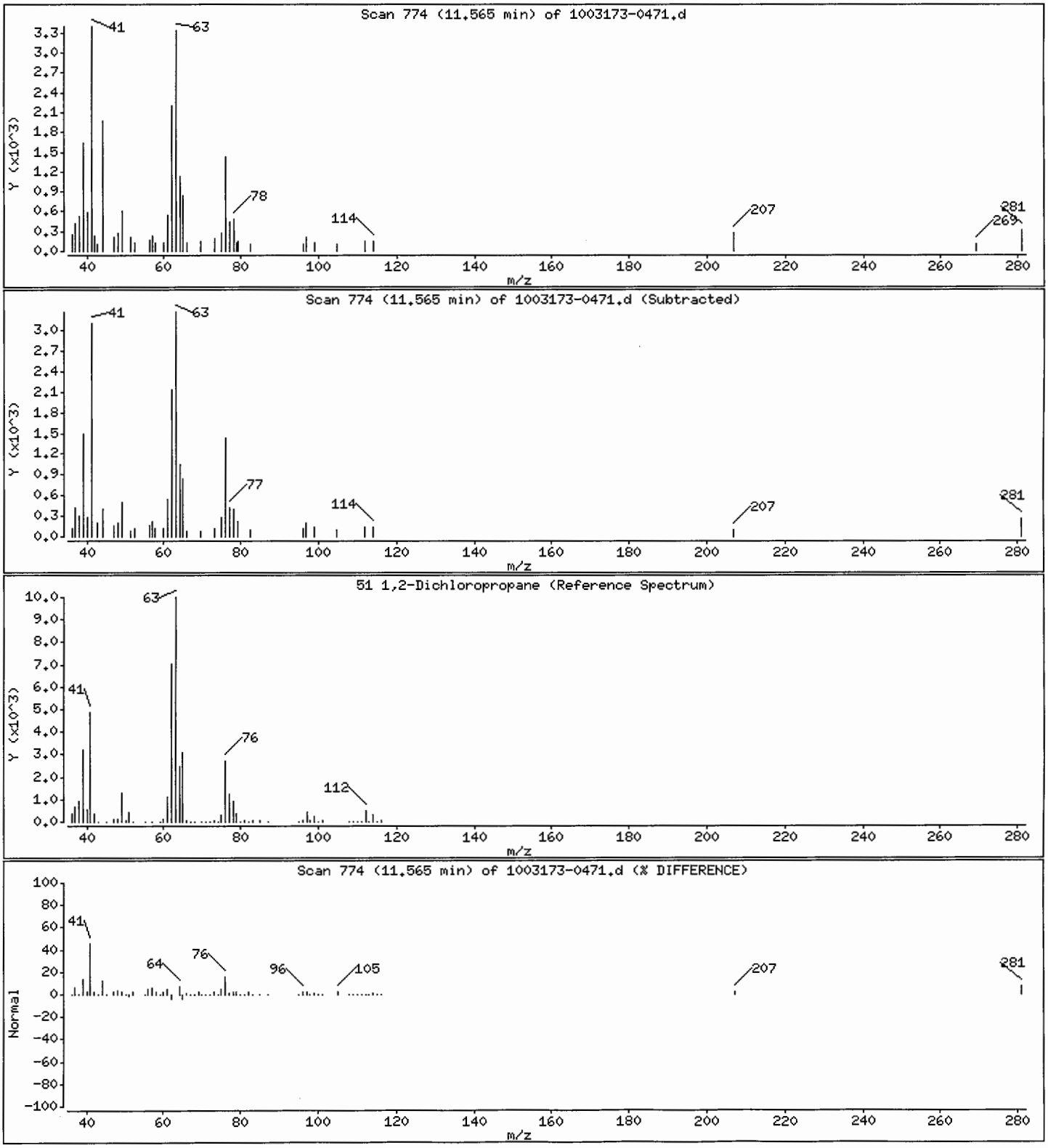
Client ID: MW-9 Instrument: 5972hp71.i

Sample Info: 1003173-04:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

51 1,2-Dichloropropane Concentration: 0.28 ug/L



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

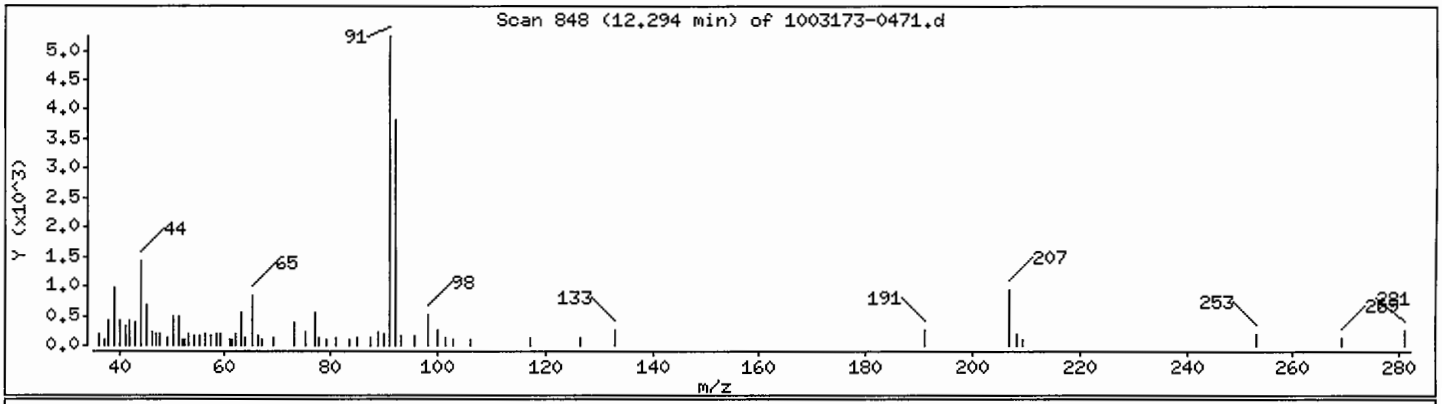
Client ID: MW-9 Instrument: 5972hp71.i

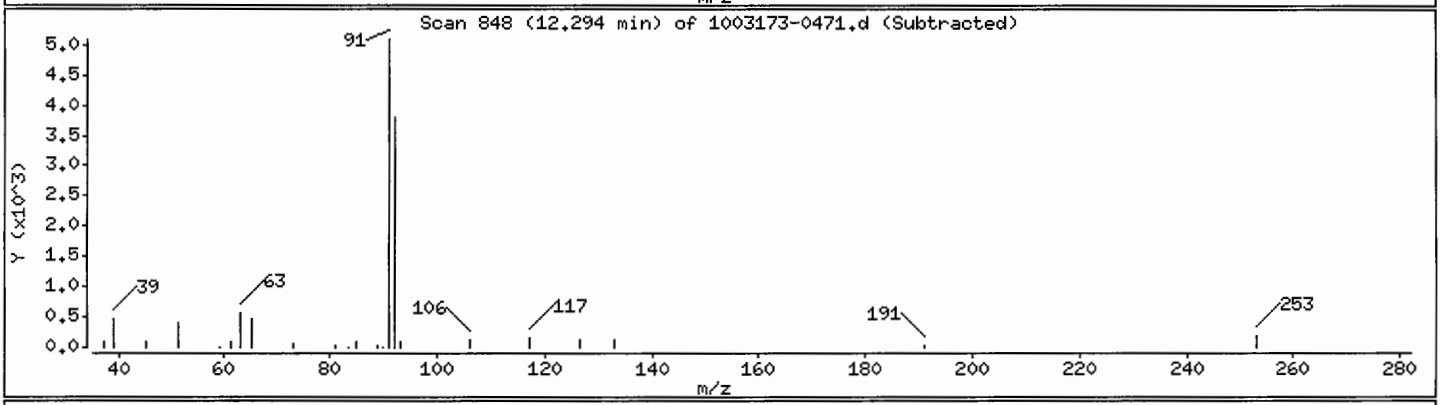
Sample Info: 1003173-04:JAO

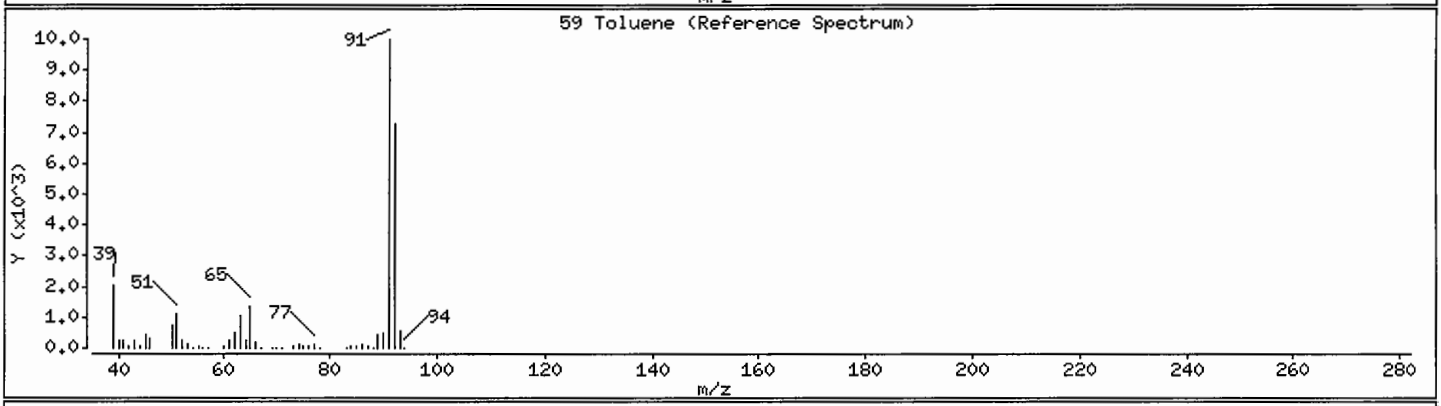
Purge Volume: 25.0 Operator: JAO

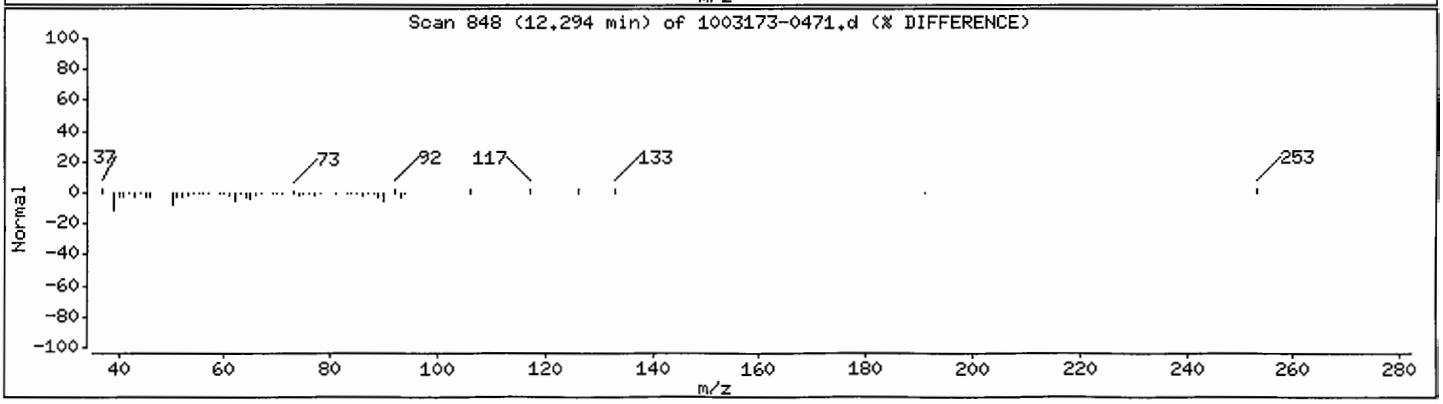
Column phase: SPB-624 Column diameter: 0.32

59 Toluene Concentration: 0.10 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

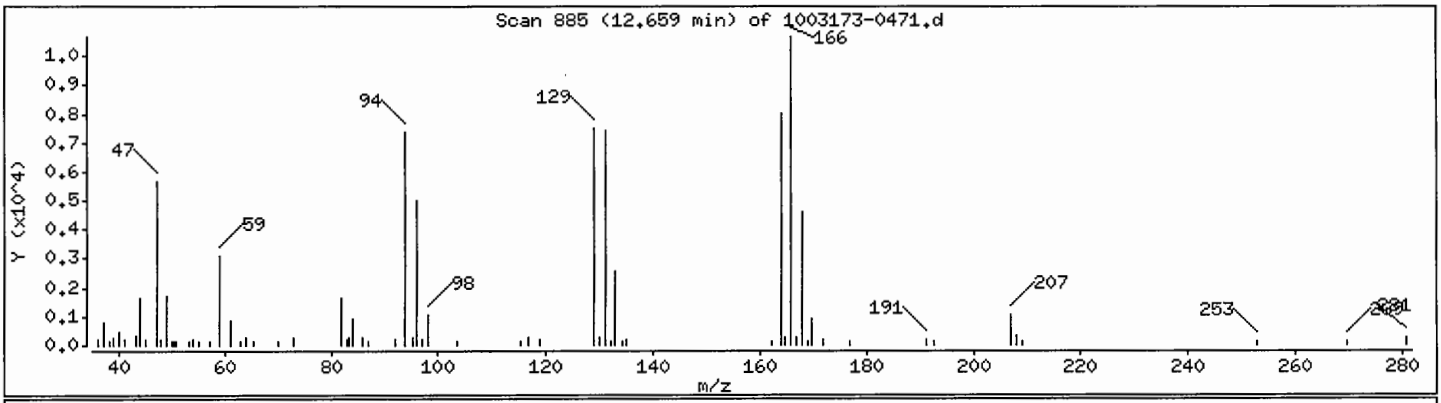
Client ID: MW-9 Instrument: 5972hp71.i

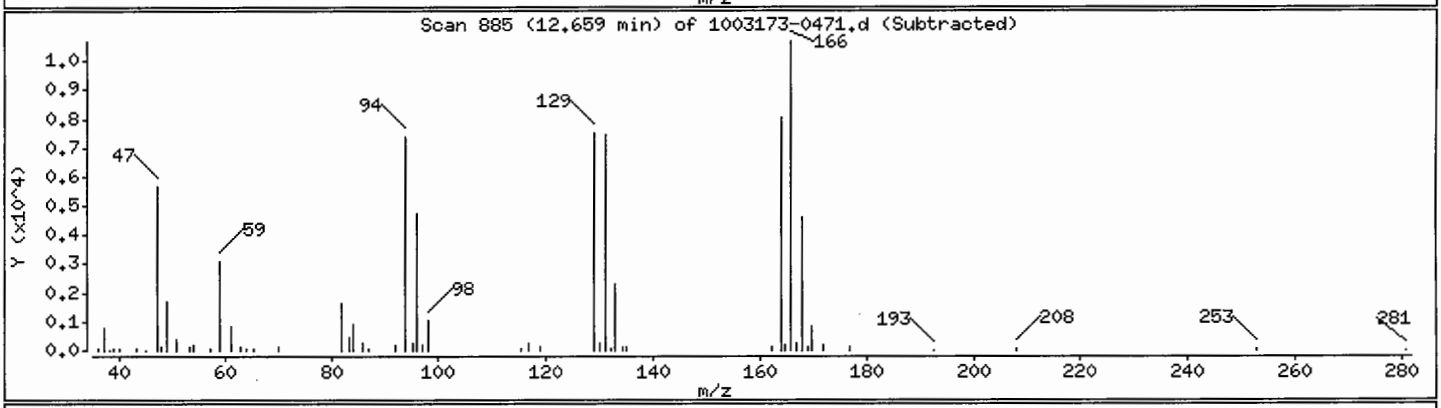
Sample Info: 1003173-04:JAO

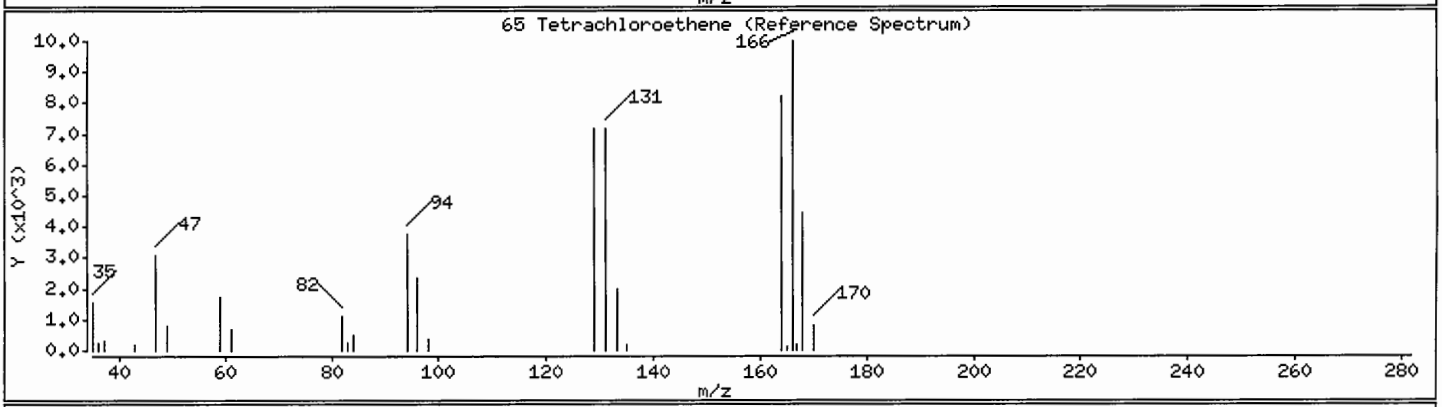
Purge Volume: 25.0 Operator: JAO

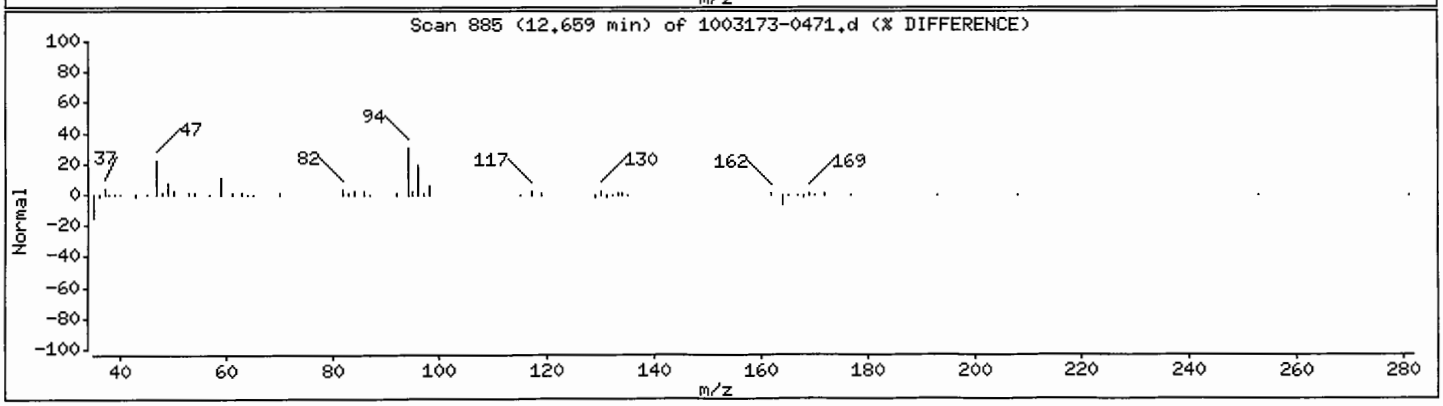
Column phase: SPB-624 Column diameter: 0.32

65 Tetrachloroethene Concentration: 0.36 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

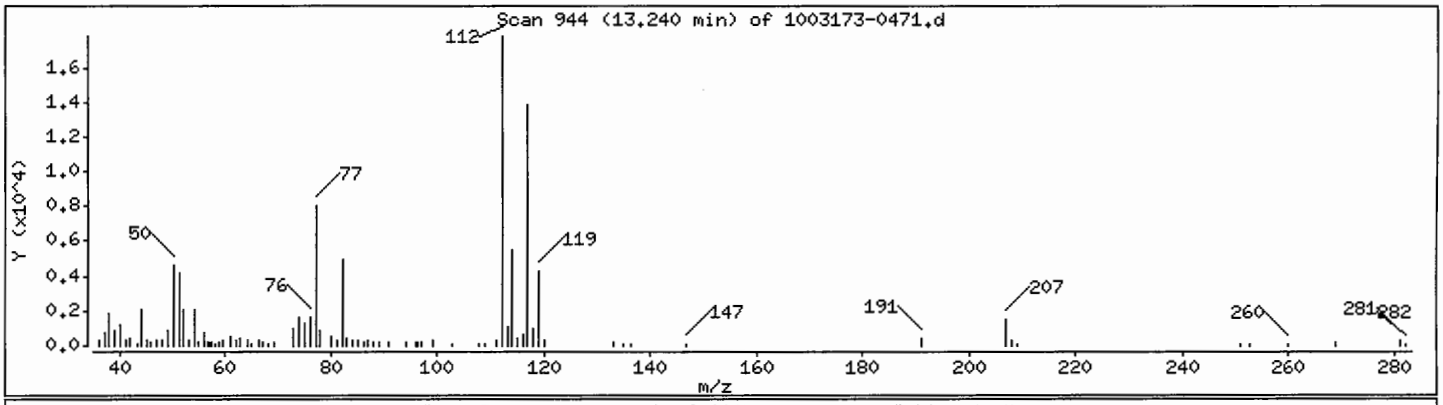
Client ID: MW-9 Instrument: 5972hp71.i

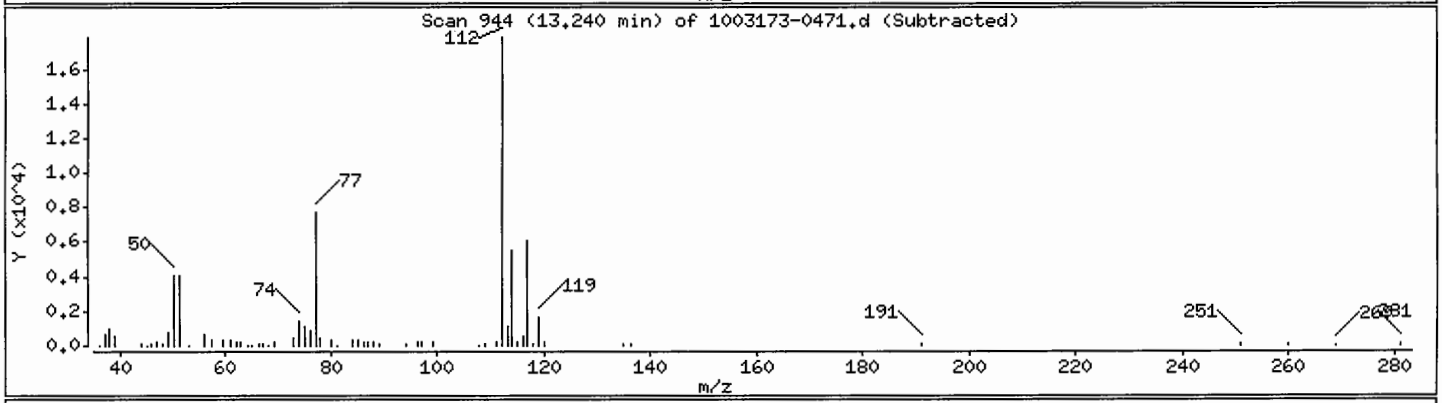
Sample Info: 1003173-04:JAO

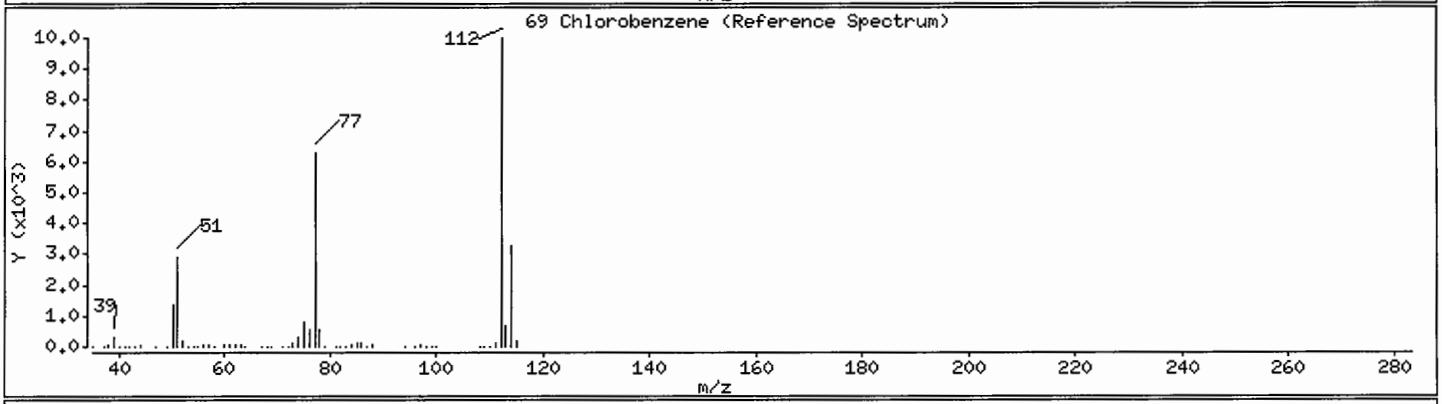
Purge Volume: 25.0 Operator: JAO

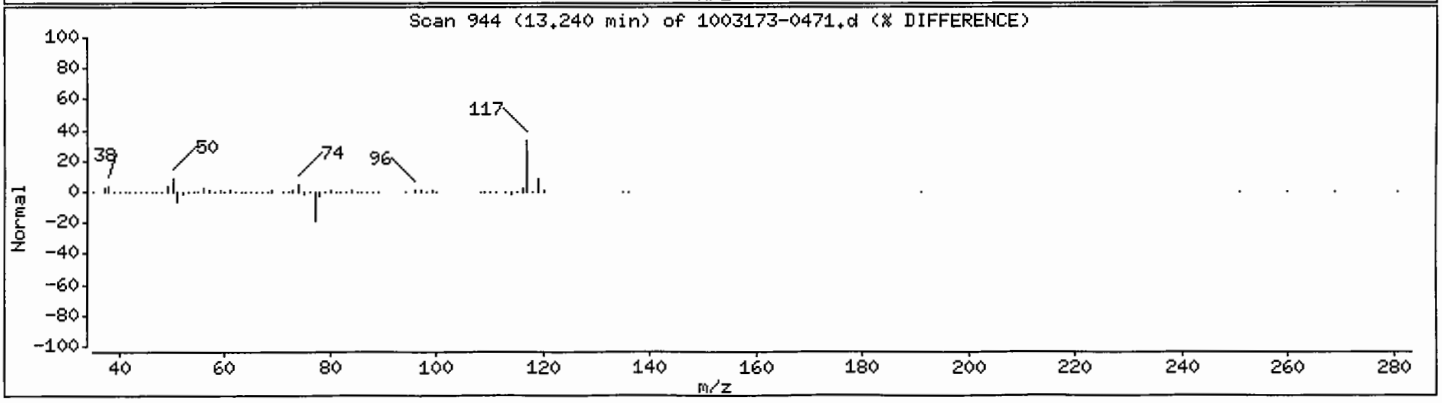
Column phase: SPB-624 Column diameter: 0.32

69 Chlorobenzene Concentration: 0.41 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

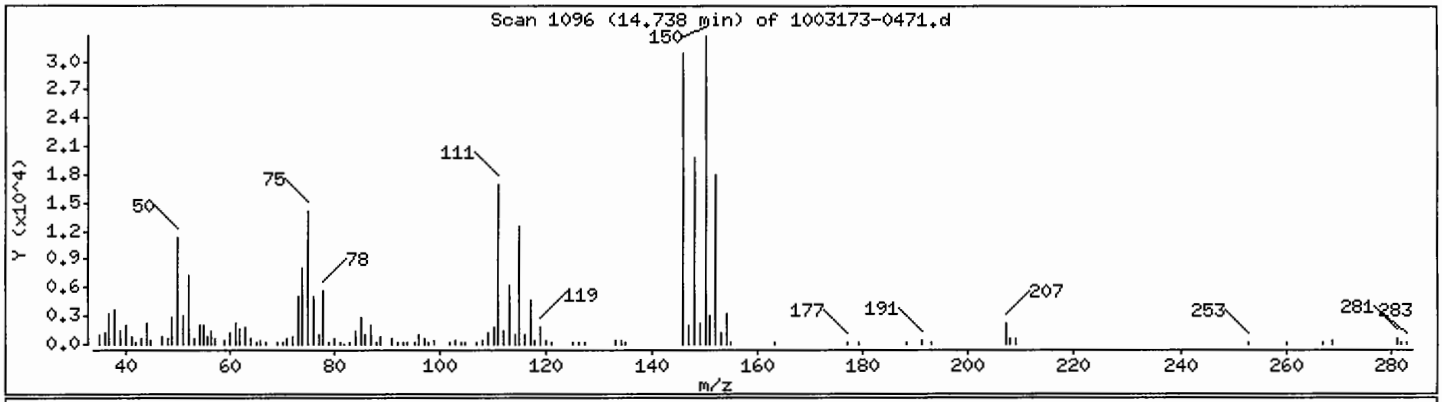
Client ID: MW-9 Instrument: 5972hp71.i

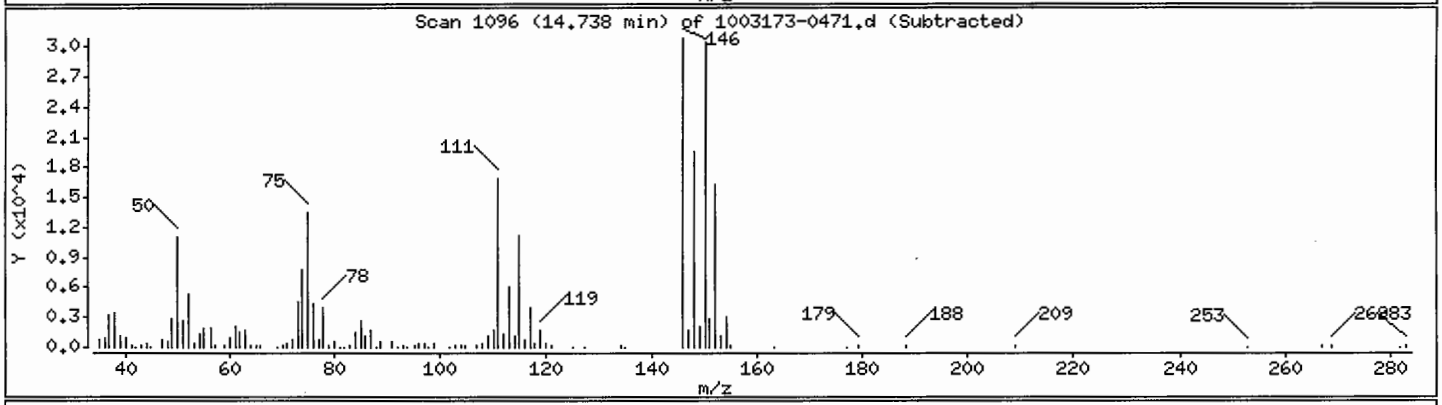
Sample Info: 1003173-04:JAO

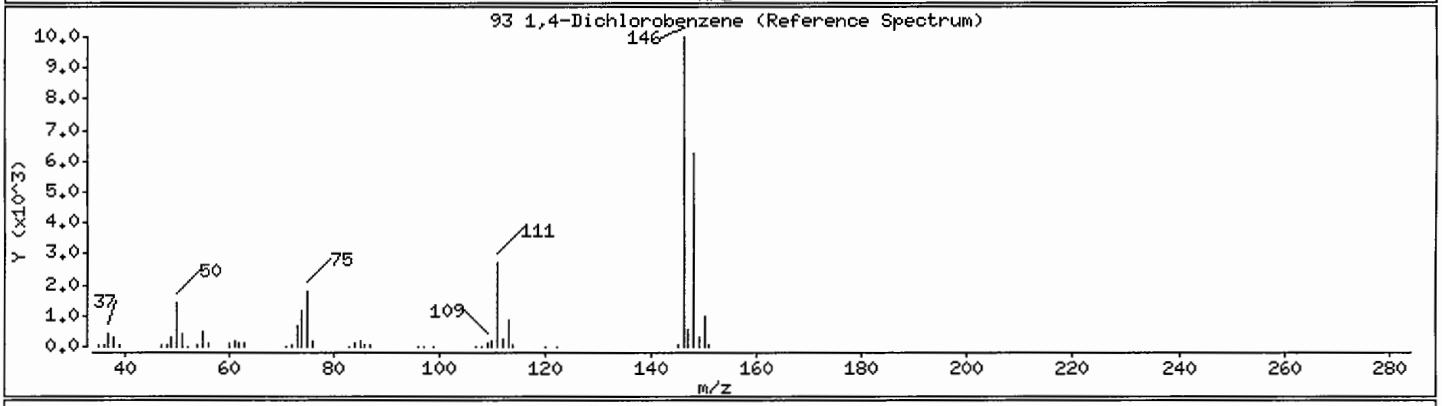
Purge Volume: 25.0 Operator: JAO

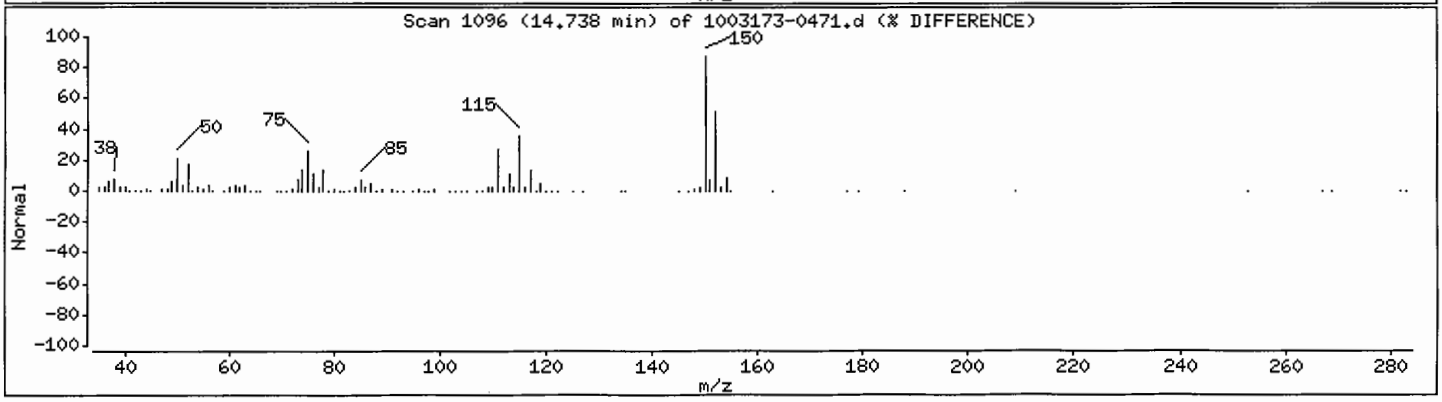
Column phase: SPB-624 Column diameter: 0.32

93 1,4-Dichlorobenzene Concentration: 1.2 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Lab Smp Id: 1003173-04 Client Smp ID: MW-9
Inj Date : 31-MAR-2010 18:05
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-04:JAO
Misc Info : MW-9
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.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

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	11.073	969664	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Difluorochloromethane				CAS #: 75-45-6			
4.196	492969	63.5488806	2.5	83	NIS08.l	1830	1
Unknown				CAS #:			
4.481	344319	44.3863718	1.8	0		0	1
Fluorodichloromethane				CAS #: 75-43-4			
6.501	480964	62.0013738	2.5	91	NIS08.l	4466	1

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d
Report Date: 07-Apr-2010 16:52

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Unknown				CAS #:			
7.142	317664	40.9501897	1.6	0		0	1

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

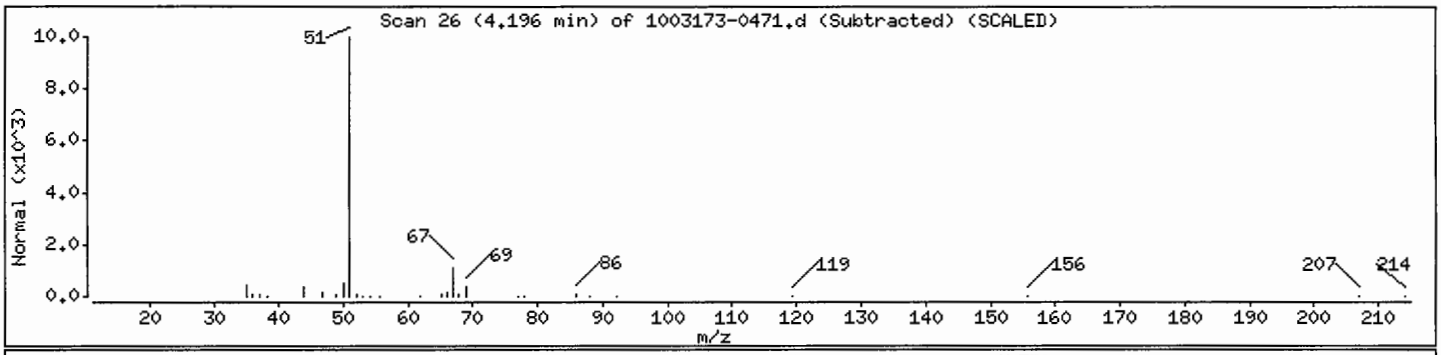
Client ID: MW-9 Instrument: 5972hp71.i

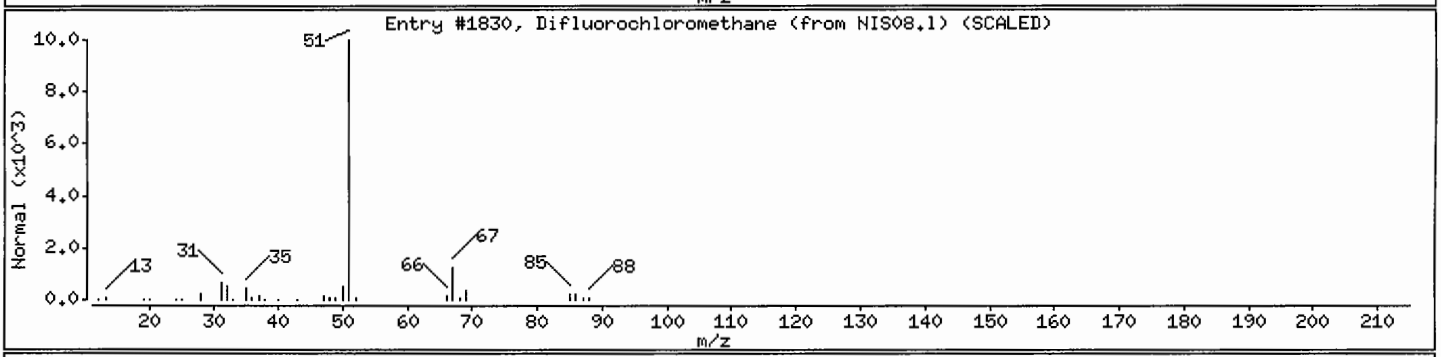
Sample Info: 1003173-04:JAO

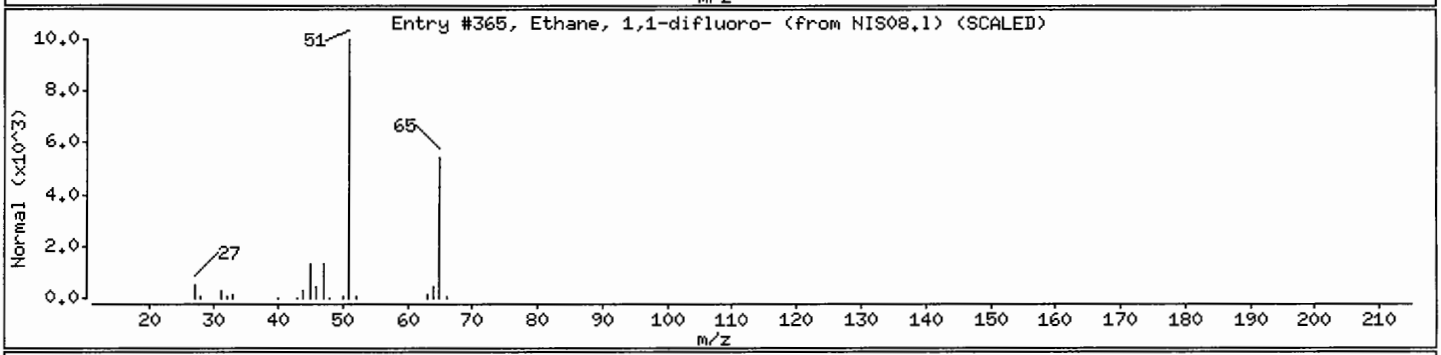
Purge Volume: 25.0 Operator: JAO

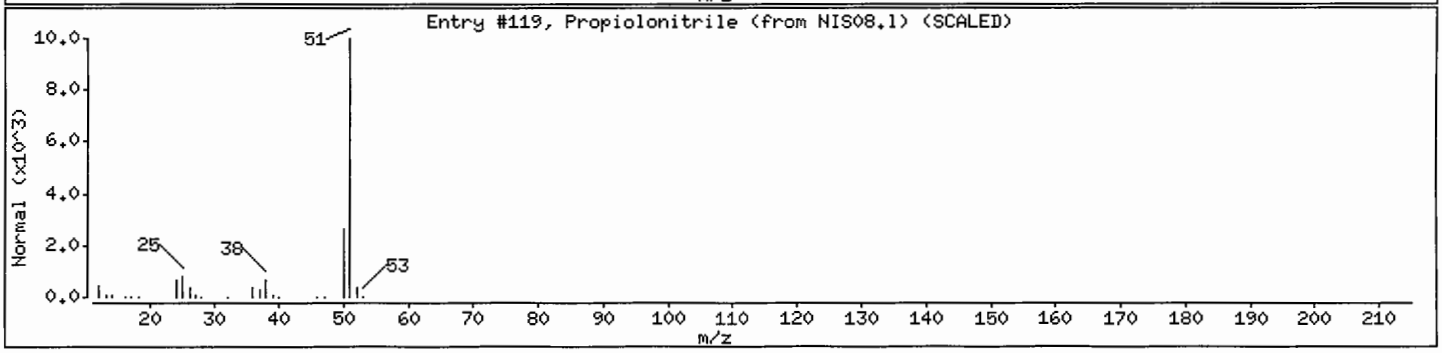
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Difluorochloromethane	75-45-6	NIS08.l	1830	83	CHClF2	86
Ethane, 1,1-difluoro-	75-37-6	NIS08.l	365	7	C2H4F2	66
Propiolonitrile	1070-71-9	NIS08.l	119	3	C3HN	51









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

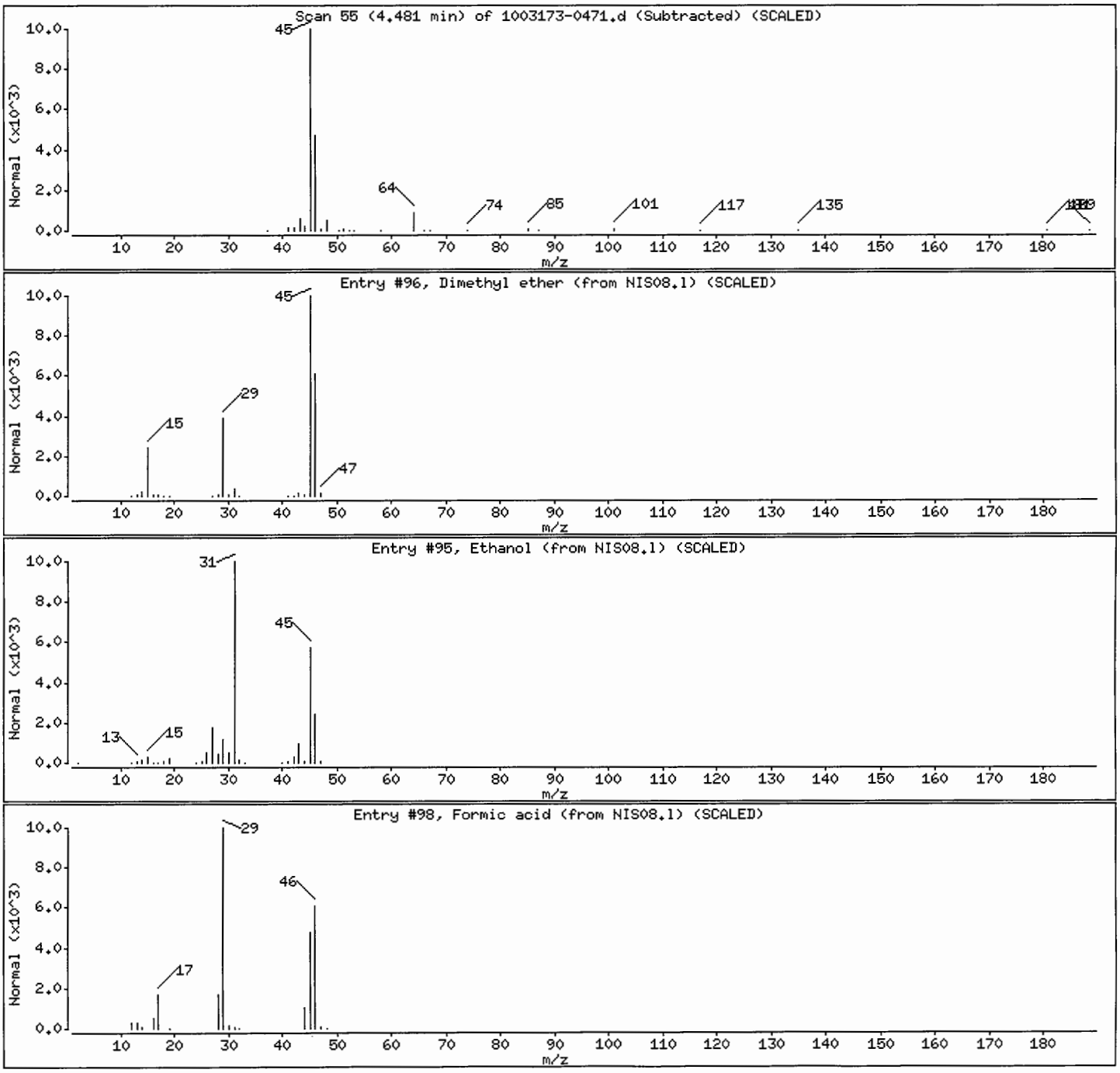
Client ID: MW-9 Instrument: 5972hp71.i

Sample Info: 1003173-04:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dimethyl ether	115-10-6	NIS08.l	96	9	C2H6O	46
Ethanol	64-17-5	NIS08.l	95	9	C2H6O	46
Formic acid	64-18-6	NIS08.l	98	4	CH2O2	46



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

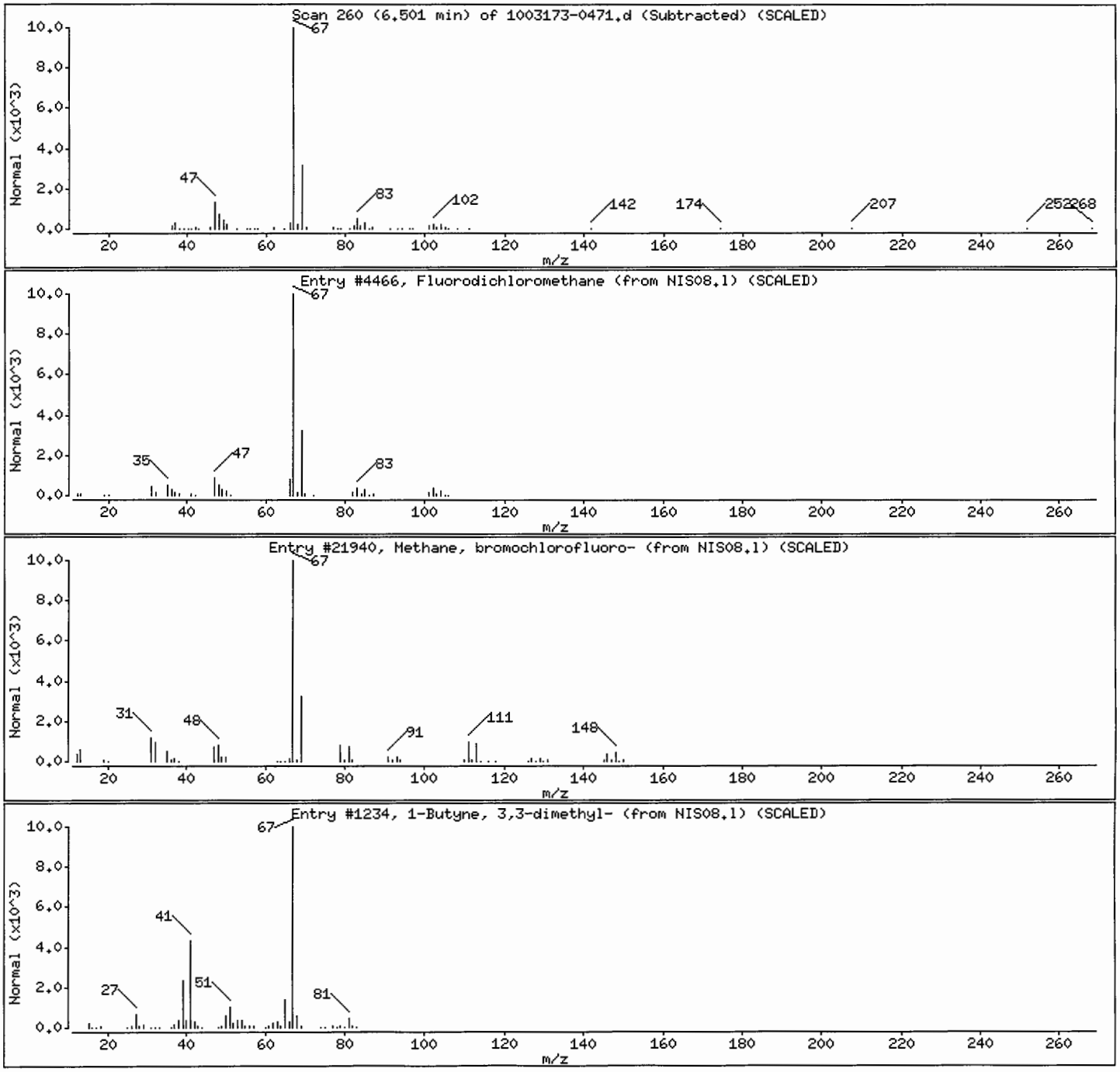
Client ID: MW-9 Instrument: 5972hp71.i

Sample Info: 1003173-04:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Fluorodichloromethane	75-43-4	NIS08.l	4466	91	CHCl2F	102
Methane, bromochlorofluoro-	593-98-6	NIS08.l	21940	9	CHBrClF	146
1-Butyne, 3,3-dimethyl-	917-92-0	NIS08.l	1234	7	C6H10	82



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0471.d

Date : 31-MAR-2010 18:05

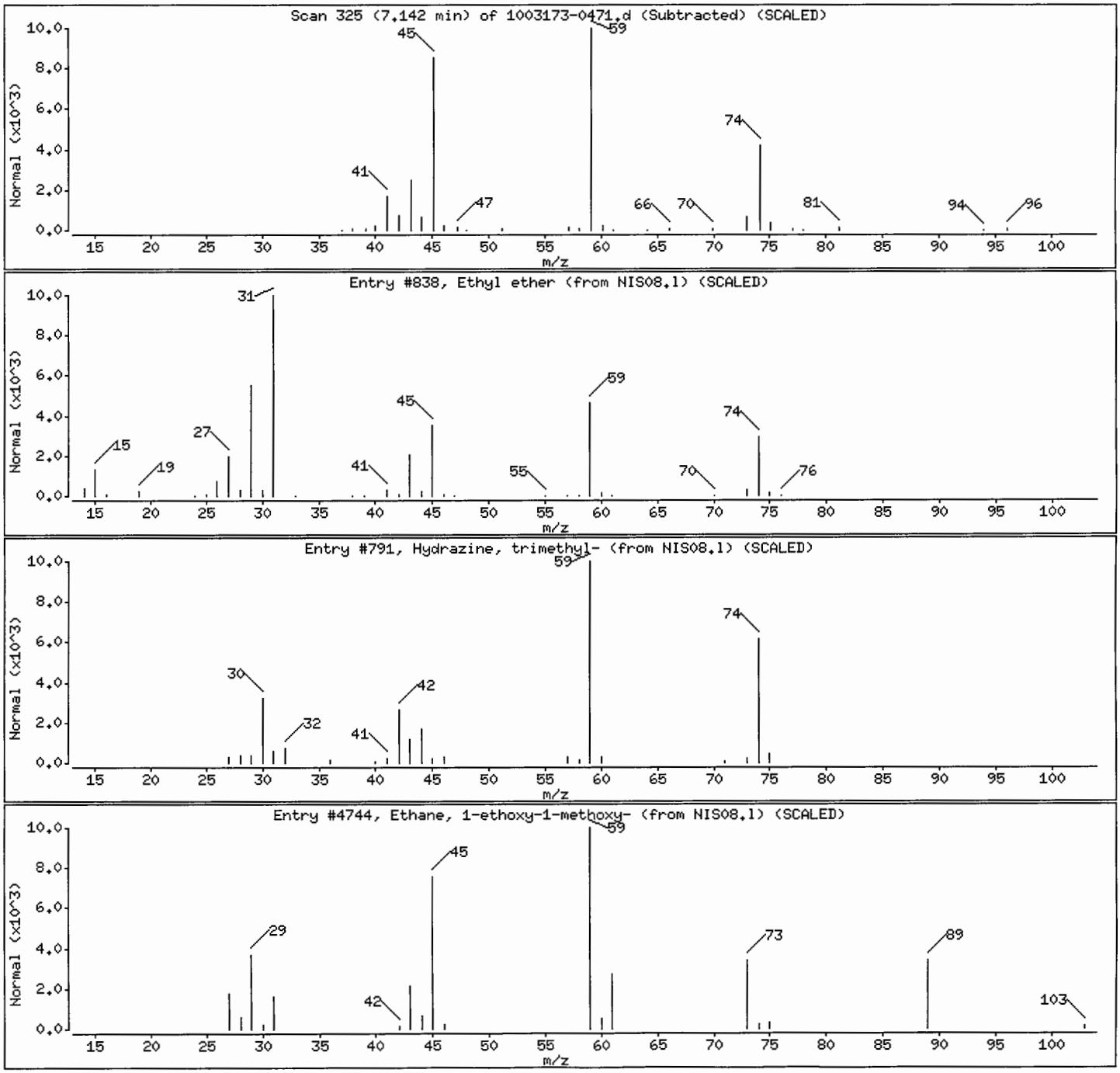
Client ID: MW-9 Instrument: 5972hp71.i

Sample Info: 1003173-04:JAO

Purge Volume: 25.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethyl ether	60-29-7	NIS08.l	838	64	C4H10O	74
Hydrazine, trimethyl-	1741-01-1	NIS08.l	791	38	C3H10N2	74
Ethane, 1-ethoxy-1-methoxy-	10471-14-4	NIS08.l	4744	38	C5H12O2	104



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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-07

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0771

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	1.3	JB
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.50	U
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 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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 1003173-07

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1003173-0771

Level: (low/med) LOW Date Received: 03/19/10

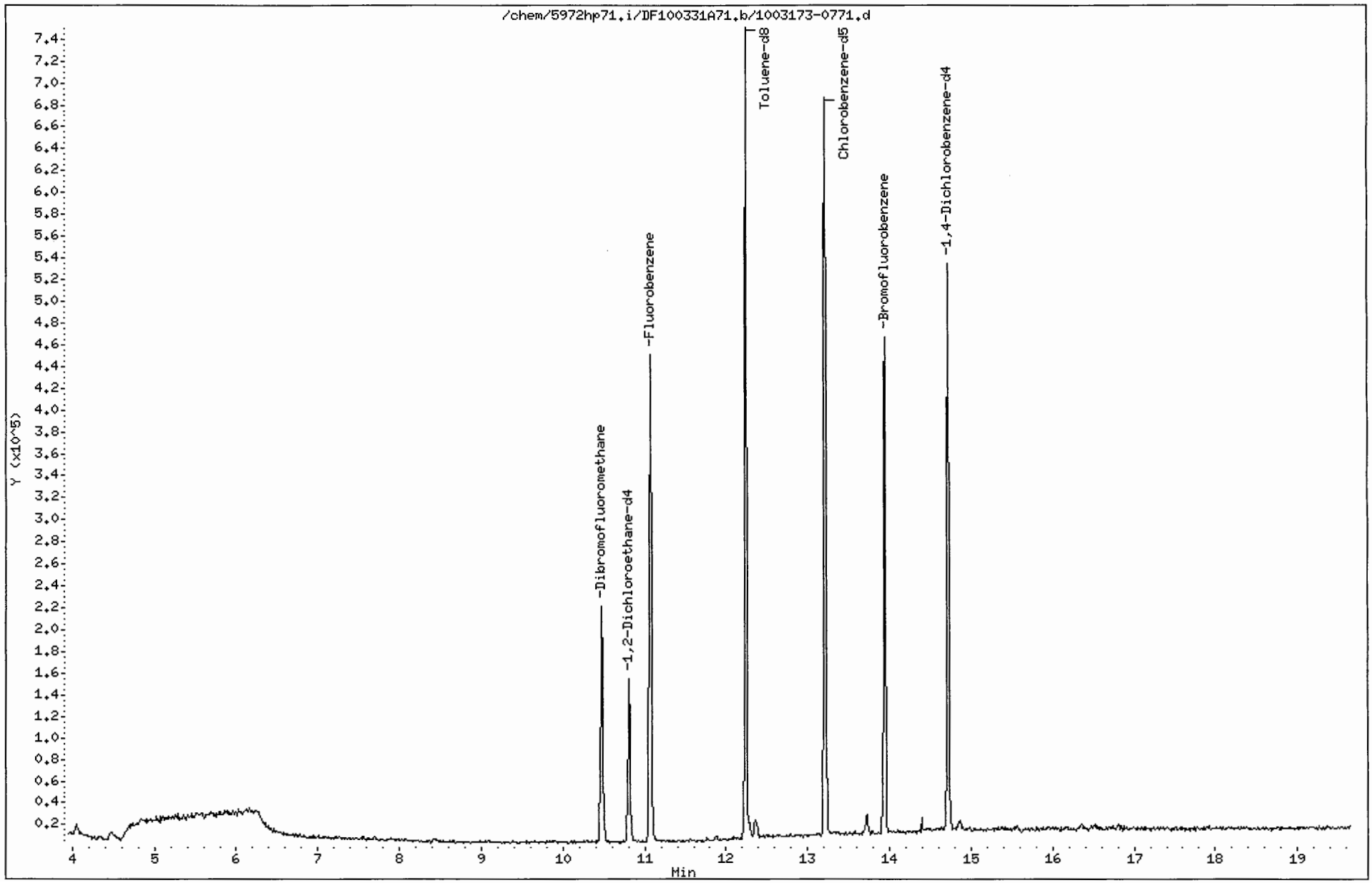
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.065	JB
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	0.50	U
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0771.d
Date : 31-MAR-2010 19:28
Client ID: TRIP BLANK
Instrument: 5972hp71.i
Sample Info: 1003173-07:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0771.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0771.d
Lab Smp Id: 1003173-07 Client Smp ID: TRIP BLANK
Inj Date : 31-MAR-2010 19:28
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-07:JAO
Misc Info : TRIP BLANK
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	11.076	11.069	(1.000)	382177	125.000	
* 2 Chlorobenzene-d5	117	13.214	13.216	(1.000)	326958	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.721	14.714	(1.000)	123841	125.000	
$ 4 Dibromofluoromethane	113	10.475	10.478	(0.946)	128773	124.806	5.0
$ 5 1,2-Dichloroethane-d4	65	10.810	10.812	(0.976)	100895	131.362	5.3
$ 6 Toluene-d8	98	12.239	12.241	(0.926)	394219	111.399	4.5
$ 7 Bromofluorobenzene	95	13.943	13.936	(0.947)	169080	119.595	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.					
18 Acetone	43	7.697	7.689	(0.695)	3115	32.9833	1.3(a)
19 Iodomethane	142	Compound Not Detected.					

pmm 4-7-10

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0771.d
Report Date: 07-Apr-2010 16:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	Compound Not Detected.					
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	12.288	12.290	(0.930)	3511	1.63217	0.065(a)
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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0771.d
Report Date: 07-Apr-2010 16:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81	1,2,3-Trichloropropane	110	Compound Not Detected.					
80	trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92	1,3-Dichlorobenzene	146	Compound Not Detected.					
93	1,4-Dichlorobenzene	146	Compound Not Detected.					
95	1,2-Dichlorobenzene	146	Compound Not Detected.					
97	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98	Hexachlorobutadiene	225	Compound Not Detected.					
99	Naphthalene	128	Compound Not Detected.					
M 102	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0771.d

Date : 31-MAR-2010 19:28

Client ID: TRIP BLANK

Instrument: 5972hp71.i

Sample Info: 1003173-07:JAO

Purge Volume: 25.0

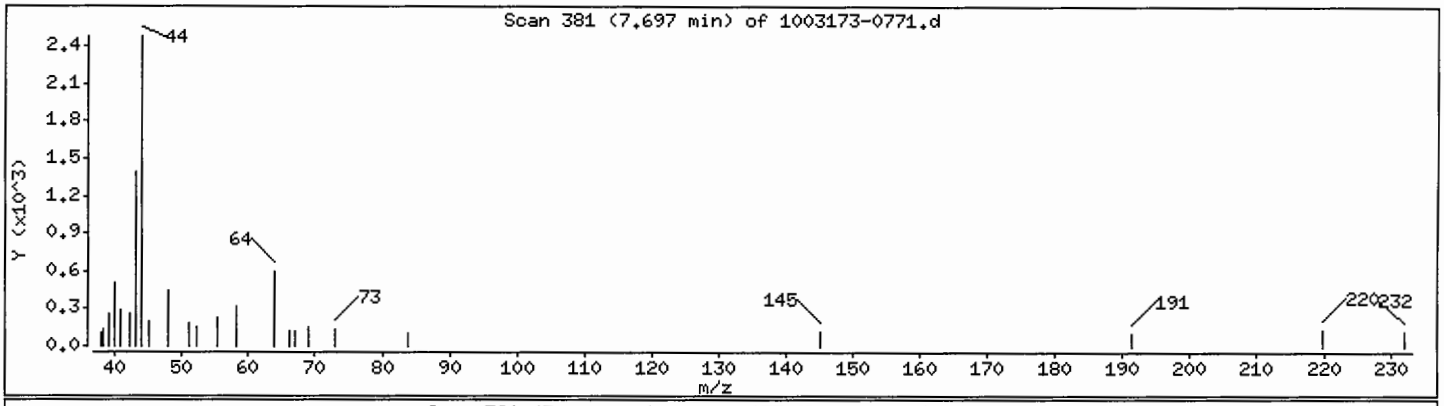
Operator: JAO

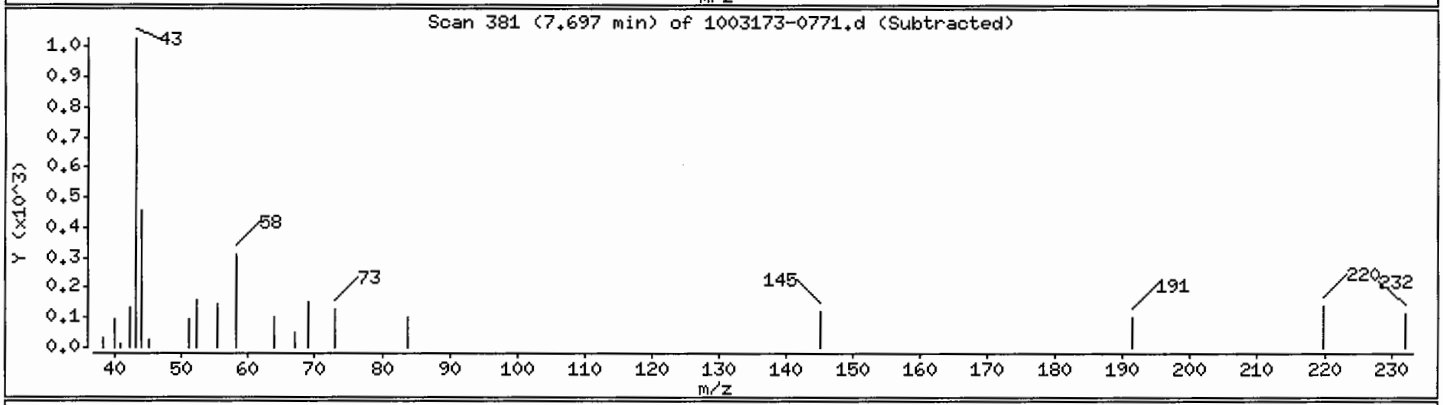
Column phase: SPB-624

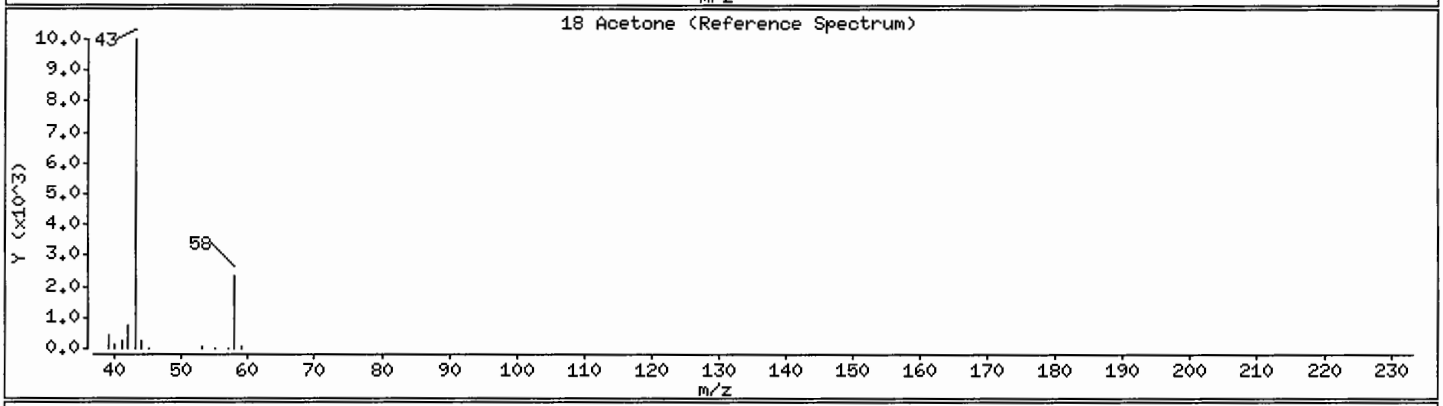
Column diameter: 0.32

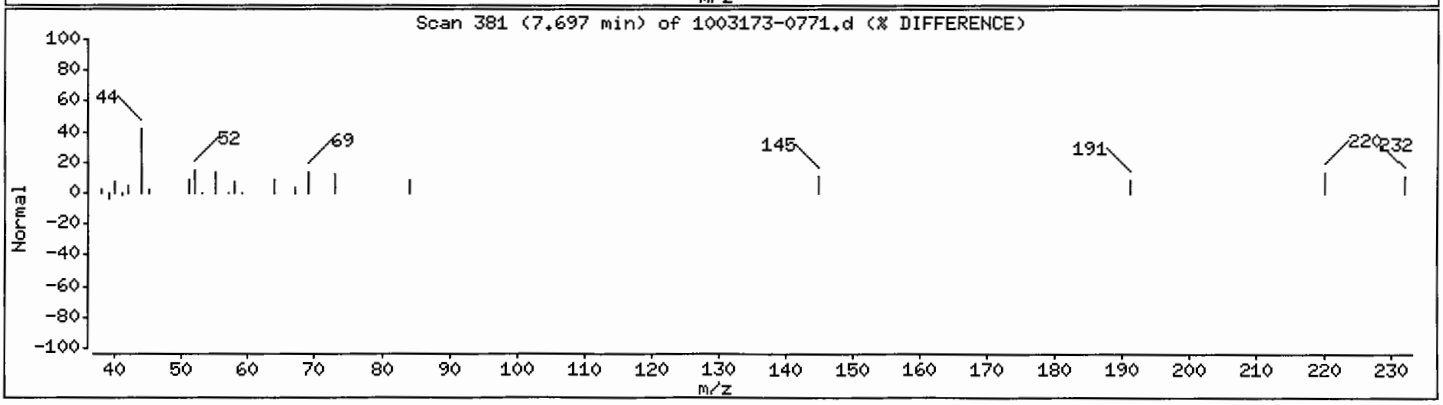
18 Acetone

Concentration: 1.3 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0771.d

Date : 31-MAR-2010 19:28

Client ID: TRIP BLANK

Instrument: 5972hp71.i

Sample Info: 1003173-07:JAO

Purge Volume: 25.0

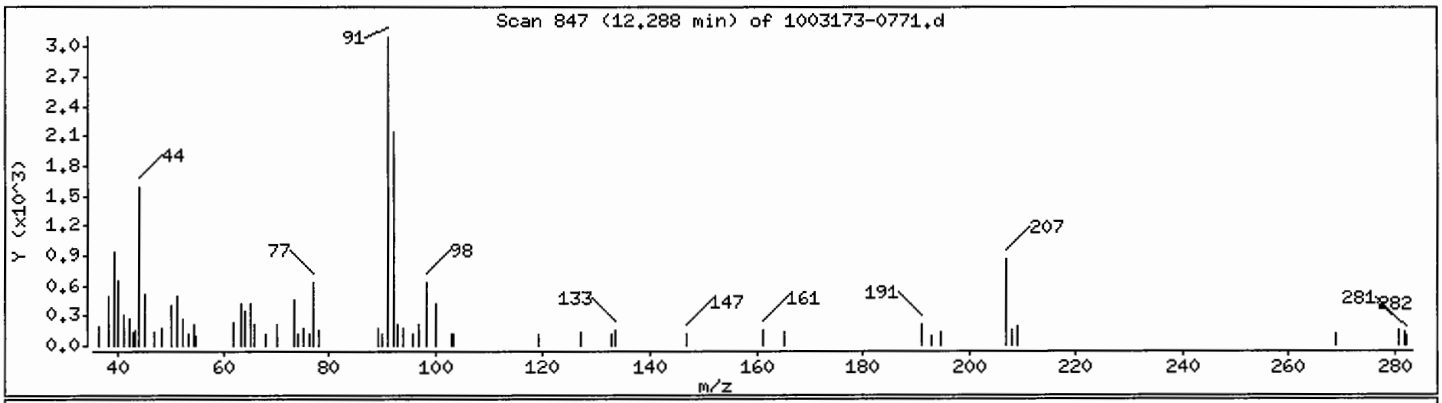
Operator: JAO

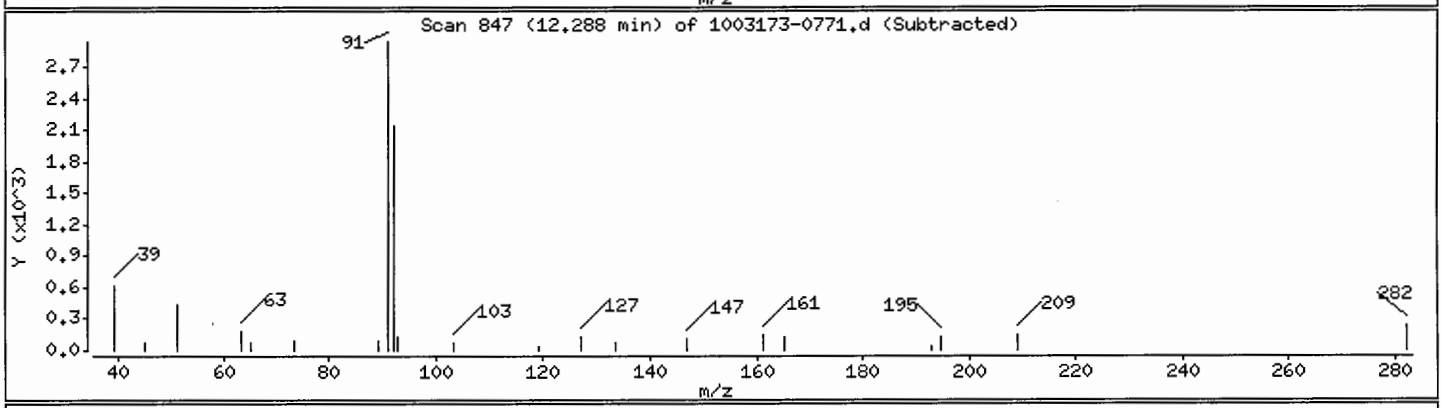
Column phase: SPB-624

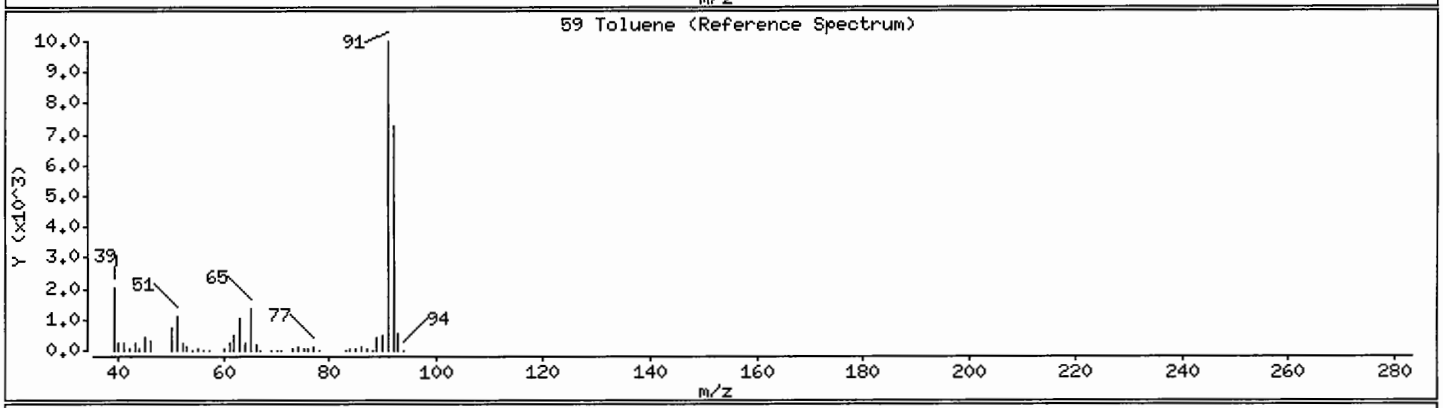
Column diameter: 0.32

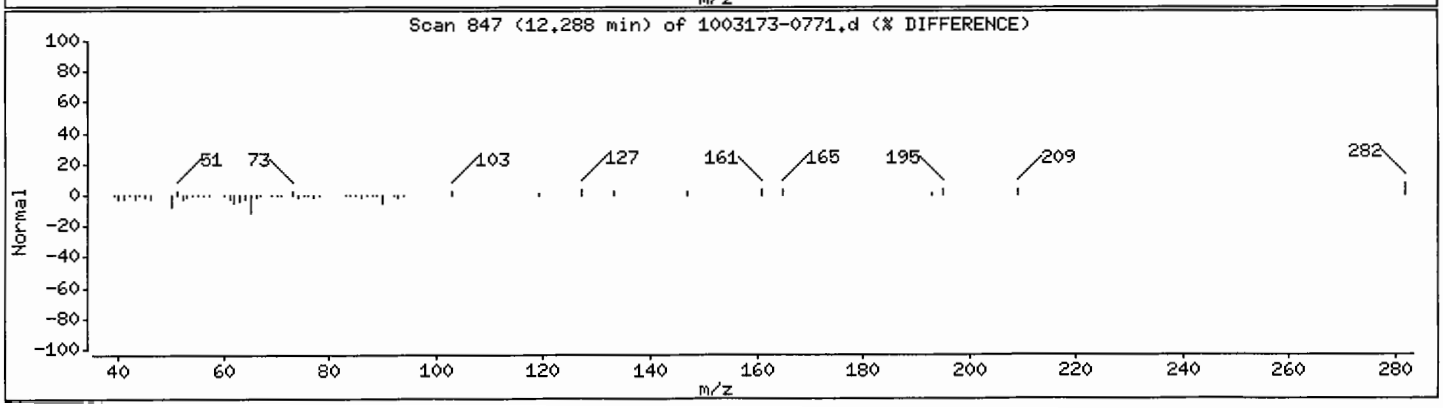
59 Toluene

Concentration: 0.065 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/1003173-0771.d
Report Date: 07-Apr-2010 16:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/1003173-0771.d
Lab Smp Id: 1003173-07 Client Smp ID: TRIP BLANK
Inj Date : 31-MAR-2010 19:28
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 1003173-07:JAO
Misc Info : TRIP BLANK
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

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.: 1003173

Instrument ID: 5972HP71 Calibration Date(s): 03/23/10 03/23/10

Column: SPB-624 ID: 0.32 (mm) Calibration Time(s): 1426 1721

LAB FILE ID: RF0.5: 0C23006-CALRF1: 0C23006-CAL27RF5: 0C23006-CAL37
RF10: 0C23006-CAL4RF20: 0C23006-CAL5RF40: 0C23006-CAL6

COMPOUND	RF0.5	RF1	RF5	RF10	RF20	RF40
Dichlorodifluoromethane	0.50313	0.52439	0.38730	0.41009	0.40610	
Chloromethane	0.36704	0.35508	0.34913	0.36424	0.37605	0.35452
Vinyl Chloride	0.29187	0.27553	0.27945	0.26621	0.28187	0.23211
Bromomethane	7481	11243	80878	232561	537917	1093358
Chloroethane	15201	19053	120065	225873	506203	956365
Trichlorofluoromethane	51190	97727	435488	908262	1986286	
Acrolein	0.00945	0.00916	0.00791	0.00914	0.00893	0.00838
1,1-Dichloroethene	0.29163	0.25976	0.23369	0.23210	0.22872	0.22275
Iodomethane	0.19229	0.21257	0.16128	0.20479	0.19557	0.17032
Carbon disulfide	0.87714	0.77446	0.77785	0.79430	0.75726	0.74631
Acetone	0.03676	0.03238	0.02776	0.03118	0.02920	0.02807
3-Chloropropene	0.33131	0.30109	0.28288	0.31523	0.27028	0.25886
Acetonitrile	0.48801	0.36350	0.40338	0.45046	0.38609	0.37180
Methylene Chloride	0.24580	0.20027	0.19345	0.20264	0.19978	0.18724
trans-1,2-Dichloroethene	0.32062	0.30253	0.25965	0.27362	0.26858	0.25062
Acrylonitrile	0.04367	0.03282	0.03515	0.04138	0.03905	0.03551
1,1-Dichloroethane	0.57233	0.52357	0.50260	0.51788	0.50784	0.47176
Vinyl acetate	0.52779	0.45893	0.47664	0.53719	0.49847	0.46705
2,2-Dichloropropane	0.49948	0.49973	0.42302	0.43810	0.41276	0.40233
cis-1,2-Dichloroethene	0.32407	0.31054	0.26360	0.27745	0.27573	0.25166
2-butanone	0.04777	0.03882	0.04078	0.04932	0.04515	0.04108
Propionitrile	0.01450	0.01227	0.01194	0.01364	0.01302	0.01206
Bromochloromethane	6946	12247	55632	121065	241000	463942
Methacrylonitrile	0.08911	0.06742	0.07272	0.08300	0.07421	0.06754
Chloroform	0.51604	0.50519	0.45061	0.46606	0.46220	0.43289
1,1,1-Trichloroethane	0.62298	0.65903	0.53344	0.53730	0.51869	0.51082
Carbon Tetrachloride	37202	75720	330152	681082	1362499	2812997
1,1-dichloropropene	0.43481	0.37813	0.34882	0.35083	0.32213	0.30644
Benzene	0.89202	0.81026	0.76954	0.79906	0.76349	0.71358
1,2-Dichloroethane	0.33917	0.36968	0.29326	0.32117	0.32120	0.30042
Isobutyl alcohol	0.00394	0.00313	0.00317	0.00365	0.00349	0.00310
Trichloroethene	0.27908	0.28639	0.21879	0.22517	0.22375	0.21115
1,2-Dichloropropane	0.25884	0.21177	0.22171	0.22486	0.21203	0.18255
Dibromomethane	0.12152	0.13303	0.09518	0.10297	0.10869	0.10098
Methylmethacrylate	0.08111	0.07362	0.06572	0.07400	0.06662	0.05636
Bromodichloromethane	0.36874	0.36336	0.29859	0.32120	0.31980	0.29547
cis-1,3-Dichloropropene	0.35928	0.32054	0.28686	0.31352	0.30532	0.28186
4-Methyl-2-pentanone	0.17070	0.12628	0.14466	0.16516	0.14498	0.13714
Toluene	0.96136	0.82815	0.82834	0.81595	0.75729	0.74331
trans-1,3-Dichloropropene	0.42927	0.36951	0.35306	0.38128	0.35877	0.35177
1,1,2-Trichloroethane	0.21063	0.19972	0.18311	0.19198	0.17936	0.17831
Ethylmethacrylate	0.24912	0.21246	0.20623	0.22420	0.19480	0.16983
Tetrachloroethene	17311	34307	147476	285847	580221	1154962
1,3-Dichloropropane	0.33560	0.27452	0.28147	0.30424	0.27975	0.26490

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Instrument ID: 5972HP71 Calibration Date(s): 03/23/10 03/23/10

Column: SPB-624 ID: 0.32 (mm) Calibration Time(s): 1426 1721

LAB FILE ID: RF0.5: 0C23006-CALRF1: 0C23006-CAL27RF5: 0C23006-CAL37
RF10: 0C23006-CAL4RF20: 0C23006-CAL5RF40: 0C23006-CAL6

COMPOUND	RF0.5	RF1	RF5	RF10	RF20	RF40
2-hexanone	0.11553	0.09003	0.09704	0.11095	0.09748	0.08864
Dibromochloromethane	0.30072	0.27382	0.24776	0.26446	0.25911	0.25180
Chlorobenzene	1.19322	1.15463	1.01125	1.00508	0.98097	0.92346
1,1,1,2-Tetrachloroethane	0.32234	0.32127	0.27766	0.28554	0.27516	0.26582
Ethylbenzene	0.70934	0.67772	0.58843	0.58066	0.55024	0.52072
m,p-Xylene	0.88359	0.83914	0.75132	0.71577	0.67938	0.64505
o-Xylene	0.83974	0.76914	0.68073	0.68026	0.63919	0.60560
Styrene	1.19790	1.14454	1.05423	1.06289	1.02396	0.95453
Bromoform	0.17597	0.17764	0.14762	0.16086	0.15810	0.14977
1,2,3-Trichloropropane	0.08526	0.07340	0.06496	0.07331	0.06780	0.06317
1,1,2,2-Tetrachloroethane	0.55934	0.48033	0.47166	0.49808	0.48840	0.45765
trans-1,4-dichloro-2-butene	0.09909	0.08069	0.07719	0.08607	0.07880	0.07574
1,3-Dichlorobenzene	1.81613	1.78850	1.47404	1.47233	1.44830	1.41071
1,4-Dichlorobenzene	1.74818	1.70340	1.43575	1.37987	1.46993	1.35824
1,2-Dichlorobenzene	1.40394	1.36194	1.17052	1.15263	1.18711	1.11838
1,2,4-Trichlorobenzene	28605	57495	220277	457948	994413	1916548
Hexachlorobutadiene	0.65970	0.69318	0.56778	0.55347	0.59025	0.62248
Naphthalene	1.57711	1.22453	1.05341	1.16628	1.26244	1.14258
Xylene (total)	0.83974	0.76914	0.68073	0.68026	0.63919	0.60560
Chloroprene	0.59298	0.58125	0.49096	0.55862	0.54498	0.54183
Dibromofluoromethane		0.41400	0.31069	0.32959	0.33253	0.30054
1,2-Dichloroethane-d4	21369	37897	170690	382888	752537	
Toluene-d8	1.58078	1.40448	1.29937	1.27728	1.20271	
Bromofluorobenzene		1.74869	1.34212	1.38298	1.38820	1.27306

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Instrument ID: 5972HP71 Calibration Date(s): 03/23/10 03/23/10

Column: SPB-624 ID: 0.32 (mm) Calibration Time(s): 1426 1721

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Dichlorodifluoromethane	AVRG		0.44620239	14.057	15.000
Chloromethane	AVRG		0.36100994	2.746	15.000
Vinyl Chloride	AVRG		0.27117386	7.702	30.000
Bromomethane	LINR	0.16722755	5.63092314	0.9978869	0.9900000
Chloroethane	LINR	-0.0603386	6.54621450	0.9976747	0.9900000
Trichlorofluoromethane	LINR	0.01969996	1.55131161	0.9975274	0.9900000
Acrolein	AVRG		0.00882808	6.510	15.000
1,1-Dichloroethene	AVRG		0.24477705	10.725	30.000
Iodomethane	AVRG		0.18947180	10.489	15.000
Carbon disulfide	AVRG		0.78788743	5.941	15.000
Acetone	AVRG		0.03088940	10.967	15.000
3-Chloropropene	AVRG		0.29327617	9.412	15.000
Acetonitrile	AVRG		0.41054082	11.911	15.000
Methylene Chloride	AVRG		0.20486308	10.165	15.000
trans-1,2-Dichloroethene	AVRG		0.27927231	9.612	15.000
Acrylonitrile	AVRG		0.03793113	10.916	15.000
1,1-Dichloroethane	AVRG		0.51599851	6.390	15.000
Vinyl acetate	AVRG		0.49434472	6.576	15.000
2,2-Dichloropropane	AVRG		0.44590251	9.697	15.000
cis-1,2-Dichloroethene	AVRG		0.28384274	9.818	15.000
2-butanone	AVRG		0.04382008	9.656	15.000
Propionitrile	AVRG		0.01290562	7.850	15.000
Bromochloromethane	LINR	-0.1027735	13.5935767	0.9985144	0.9900000
Methacrylonitrile	AVRG		0.07566876	11.510	15.000
Chloroform	AVRG		0.47216297	6.803	30.000
1,1,1-Trichloroethane	AVRG		0.56371143	10.946	15.000
Carbon Tetrachloride	LINR	-0.0416406	2.25851692	0.9999137	0.9900000
1,1-dichloropropene	AVRG		0.35685965	12.767	15.000
Benzene	AVRG		0.79132627	7.551	15.000
1,2-Dichloroethane	AVRG		0.32414982	8.542	15.000
Isobutyl alcohol	AVRG		0.00341457	9.972	15.000
Trichloroethene	AVRG		0.24072169	13.706	15.000
1,2-Dichloropropane	AVRG		0.21862784	11.311	30.000
Dibromomethane	AVRG		0.11039682	12.901	15.000
Methylmethacrylate	AVRG		0.06957250	12.318	15.000
Bromodichloromethane	AVRG		0.32785955	9.594	15.000
cis-1,3-Dichloropropene	AVRG		0.31123012	8.964	15.000
4-Methyl-2-pentanone	AVRG		0.14815484	11.373	15.000
Toluene	AVRG		0.82240060	9.405	30.000
trans-1,3-Dichloropropene	AVRG		0.37394347	7.835	15.000
1,1,2-Trichloroethane	AVRG		0.19052002	6.720	15.000
Ethylmethacrylate	AVRG		0.20944023	12.804	15.000
Tetrachloroethene	LINR	-0.0797114	3.97616834	0.9998282	0.9900000
1,3-Dichloropropane	AVRG		0.29008077	8.896	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Instrument ID: 5972HP71 Calibration Date(s): 03/23/10 03/23/10

Column: SPB-624 ID: 0.32 (mm) Calibration Time(s): 1426 1721

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
2-hexanone	AVRG		0.09994493	11.002	15.000
Dibromochloromethane	AVRG		0.26627949	7.224	15.000
Chlorobenzene	AVRG		1.04476959	10.092	15.000
1,1,1,2-Tetrachloroethane	AVRG		0.29129928	8.396	15.000
Ethylbenzene	AVRG		0.60451954	12.188	30.000
m,p-Xylene	AVRG		0.75237608	12.316	15.000
o-Xylene	AVRG		0.70244343	12.352	15.000
Styrene	AVRG		1.07301015	8.083	15.000
Bromoform	AVRG		0.16166090	7.882	15.000
1,2,3-Trichloropropane	AVRG		0.07131845	11.251	15.000
1,1,2,2-Tetrachloroethane	AVRG		0.49257840	7.213	15.000
trans-1,4-dichloro-2-butene	AVRG		0.08293065	10.479	15.000
1,3-Dichlorobenzene	AVRG		1.56833663	11.661	15.000
1,4-Dichlorobenzene	AVRG		1.51589400	11.078	15.000
1,2-Dichlorobenzene	AVRG		1.23242198	9.700	15.000
1,2,4-Trichlorobenzene	LINR	-0.0220557	0.82080041	0.9992451	0.9900000
Hexachlorobutadiene	AVRG		0.61447679	8.851	15.000
Naphthalene	AVRG		1.23772674	14.636	15.000
Xylene (total)	AVRG		0.70244343	12.352	15.000
Chloroprene	AVRG		0.55177105	6.513	15.000
Dibromofluoromethane	AVRG		0.33747061	13.271	15.000
1,2-Dichloroethane-d4	LINR	-0.0236857	4.07036558	0.9988751	0.9900000
Toluene-d8	AVRG		1.35292393	10.821	15.000
Bromofluorobenzene	AVRG		1.42700756	13.008	15.000

Average %RSD test result.

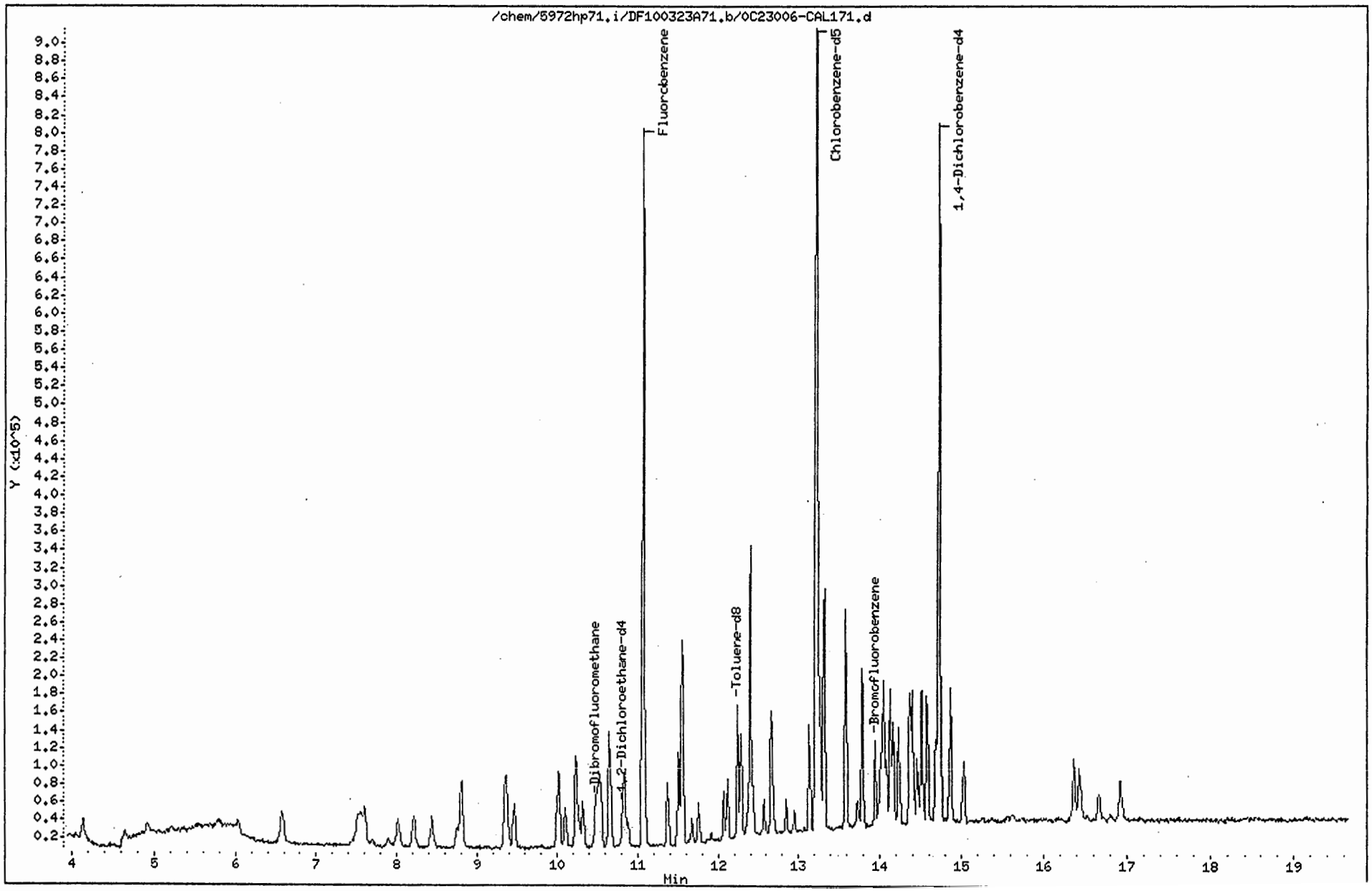
Calculate Average %RSD: 9.624157906
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL171.d
Date : 23-MAR-2010 14:54
Client ID: VSTD0.5
Sample Info: 0C23006-CAL1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL171.d
Report Date: 24-Mar-2010 14:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100323A71.b/0C23006-CAL171.d
Lab Smp Id: 0C23006-CAL1 Client Smp ID: VSTD0.5
Inj Date : 23-MAR-2010 14:54
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0C23006-CAL1:JAO
Misc Info : VSTD0.5
Comment :
Method : /chem/5972hp71.i/DF100323A71.b/W8260-B-25MLv14.m
Meth Date : 24-Mar-2010 14:29 walker Quant Type: ISTD
Cal Date : 23-MAR-2010 14:54 Cal File: 0C23006-CAL171.d
Als bottle: 3 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	11.074	11.074	(1.000)	673965	125.000	
*	2 Chlorobenzene-d5	117	13.221	13.221	(1.000)	499406	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.719	14.719	(1.000)	181446	125.000	
$	5 1,2-Dichloroethane-d4	65	10.817	10.817	(0.977)	21369	12.5000	13
$	6 Toluene-d8	98	12.246	12.246	(0.926)	78945	12.5000	13
	8 Dichlorodifluoromethane	85	4.148	4.148	(0.375)	33909	12.5000	13
	9 Chloromethane	50	4.640	4.640	(0.419)	24737	12.5000	13
	10 Vinyl Chloride	62	4.916	4.916	(0.444)	19671	12.5000	13
	11 Bromomethane	94	5.793	5.793	(0.523)	7481	12.5000	13
	12 Chloroethane	64	6.039	6.039	(0.545)	15201	12.5000	13
	13 Trichlorofluoromethane	101	6.581	6.581	(0.594)	51190	12.5000	13
	14 Acrolein	56	7.448	7.448	(0.673)	6372	125.000	130
	15 1,1,1-trichloro-2,2,2-trifluo	117	7.517	7.517	(0.679)	12485	12.5000	13
	16 1,1,2-trichloro-1,2,2-trifluo	85	7.547	7.547	(0.681)	11598	12.5000	13
	17 1,1-Dichloroethene	96	7.616	7.616	(0.688)	19655	12.5000	13

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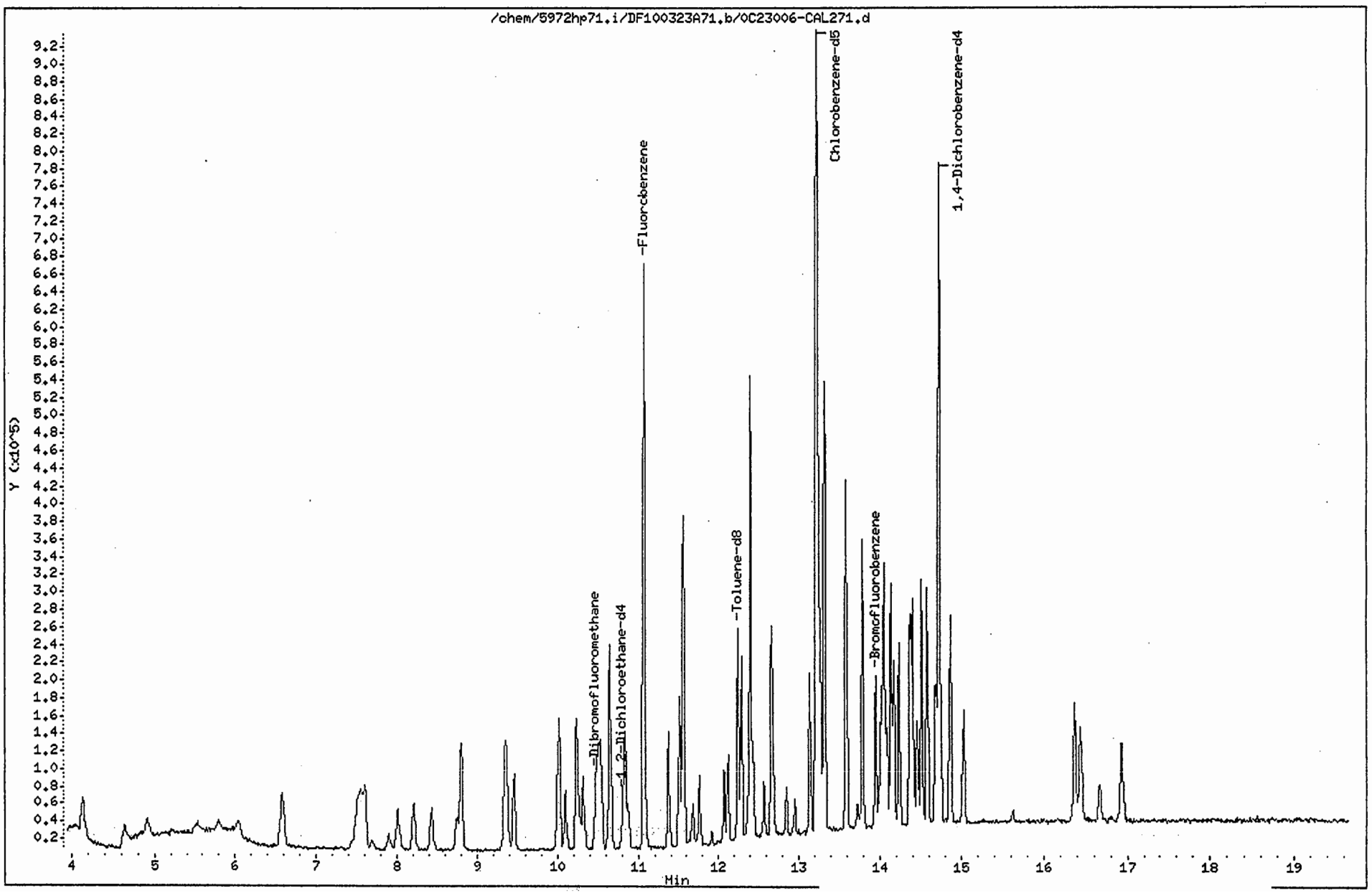
Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL171.d
Report Date: 24-Mar-2010 14:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Acetone	43	7.694	7.694	(0.695)	12386	62.5000	63
19 Iodomethane	142	7.901	7.901	(0.714)	12960	12.5000	13
20 Carbon disulfide	76	8.010	8.010	(0.723)	59116	12.5000	13
22 3-Chloropropene	39	8.216	8.216	(0.742)	22329	12.5000	13
23 Acetonitrile	41	8.216	8.216	(0.742)	32890	12.5000	13
24 Methyl acetate	43	8.207	8.207	(0.741)	7441	12.5000	13
25 Methylene Chloride	84	8.433	8.433	(0.762)	16566	12.5000	13
26 Acrylonitrile	53	8.808	8.808	(0.795)	29432	125.000	130
28 trans-1,2-Dichloroethene	96	8.798	8.798	(0.794)	21609	12.5000	13
27 Methyl-tert-butyl ether	73	8.749	8.749	(0.790)	28528	12.5000	13
30 Isopropyl ether	45	9.340	9.340	(0.843)	64192	12.5000	13
31 Vinyl acetate	43	9.359	9.359	(0.845)	71143	25.0000	25
32 1,1-Dichloroethane	63	9.379	9.379	(0.847)	38573	12.5000	13
33 Chloroprene	53	9.458	9.458	(0.854)	39965	12.5000	13
34 2-butanone	43	9.990	9.990	(0.902)	16098	62.5000	63
35 2,2-Dichloropropane	77	10.019	10.019	(0.905)	33663	12.5000	13
36 cis-1,2-Dichloroethene	96	10.029	10.029	(0.906)	21841	12.5000	13
37 Propionitrile	54	10.108	10.108	(0.913)	48859	625.000	630
38 Methacrylonitrile	41	10.236	10.236	(0.924)	60058	125.000	130
39 Bromochloromethane	128	10.276	10.276	(0.928)	6946	12.5000	13
40 Chloroform	83	10.325	10.325	(0.932)	34779	12.5000	13
42 1,1,1-Trichloroethane	97	10.512	10.512	(0.949)	41987	12.5000	13
43 Cyclohexane	84	10.542	10.542	(0.952)	25506	12.5000	13
44 1,1-dichloropropene	75	10.660	10.660	(0.963)	29305	12.5000	13
45 Isobutyl alcohol	43	10.670	10.670	(0.964)	13293	625.000	630
46 Carbon Tetrachloride	117	10.650	10.650	(0.962)	37202	12.5000	13
47 Benzene	78	10.837	10.837	(0.979)	60119	12.5000	13
48 1,2-Dichloroethane	62	10.877	10.877	(0.982)	22859	12.5000	13
49 Trichloroethene	130	11.379	11.379	(1.028)	18809	12.5000	13
50 Methylcyclohexane	83	11.507	11.507	(1.039)	30545	12.5000	13
51 1,2-Dichloropropane	63	11.566	11.566	(1.044)	17445	12.5000	13
52 Methylmethacrylate	69	11.556	11.556	(1.044)	54668	125.000	130
53 1,4-dioxane	88	11.625	11.625	(1.050)	2672	625.000	630
54 Dibromomethane	174	11.675	11.675	(1.054)	8190	12.5000	13
55 Bromodichloromethane	83	11.763	11.763	(1.062)	24852	12.5000	13
56 2-chloroethyl vinyl ether	63	11.921	11.921	(1.077)	3524	25.0000	25
57 cis-1,3-Dichloropropene	75	12.069	12.069	(1.090)	24214	12.5000	13
58 4-Methyl-2-pentanone	43	12.118	12.118	(0.917)	42625	62.5000	63
59 Toluene	92	12.295	12.295	(0.930)	48011	12.5000	13
60 Ethylmethacrylate	69	12.404	12.404	(0.938)	124415	125.000	130
61 trans-1,3-Dichloropropene	75	12.433	12.433	(0.940)	21438	12.5000	13
62 1,1,2-Trichloroethane	97	12.571	12.571	(0.951)	10519	12.5000	13
63 2-hexanone	43	12.660	12.660	(0.958)	28848	62.5000	63
64 1,3-Dichloropropane	76	12.689	12.689	(0.960)	16760	12.5000	13
65 Tetrachloroethene	164	12.660	12.660	(0.958)	17311	12.5000	13
66 Dibromochloromethane	129	12.847	12.847	(0.972)	15018	12.5000	13
67 1,2-Dibromoethane	107	12.946	12.946	(0.979)	14526	12.5000	13

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL171.d
Report Date: 24-Mar-2010 14:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
68	1-Chlorohexane	55	13.133	13.133	(0.993)	28733	12.5000	13
69	Chlorobenzene	112	13.241	13.241	(1.001)	59590	12.5000	13
70	Ethylbenzene	106	13.251	13.251	(1.002)	35425	12.5000	13
71	1,1,1,2-Tetrachloroethane	131	13.271	13.271	(1.004)	16098	12.5000	13
72	m,p-Xylene	106	13.320	13.320	(1.007)	88254	25.0000	25
73	m,p-Xylene (part of total)	106	13.320	13.320	(1.007)	88254	25.0000	25
74	o-Xylene	106	13.586	13.586	(1.028)	41937	12.5000	13
75	o-Xylene (part of total)	106	13.586	13.586	(1.028)	41937	12.5000	13
76	Styrene	104	13.586	13.586	(1.028)	59824	12.5000	13
77	Bromoform	173	13.783	13.783	(1.042)	8788	12.5000	13
78	Isopropyl Benzene	105	13.783	13.783	(1.042)	114832	12.5000	13
79	1,1,2,2-Tetrachloroethane	83	13.990	13.990	(0.950)	10149	12.5000	13
81	1,2,3-Trichloropropane	110	14.049	14.049	(1.063)	4258	12.5000	13
80	trans-1,4-dichloro-2-butene	53	14.010	14.010	(1.060)	19794	50.0000	50
82	n-Propyl Benzene	91	14.039	14.039	(0.954)	119372	12.5000	13
83	Bromobenzene	156	14.079	14.079	(1.065)	17432	12.5000	13
84	1,3,5-Trimethyl Benzene	105	14.128	14.128	(0.960)	91553	12.5000	13
85	2-Chlorotoluene	126	14.167	14.167	(0.963)	20156	12.5000	13
86	4-Chlorotoluene	126	14.226	14.226	(0.967)	21166	12.5000	13
87	tert-Butyl Benzene	119	14.364	14.364	(0.976)	77187	12.5000	13
88	1,2,4-Trimethyl Benzene	105	14.394	14.394	(0.978)	91088	12.5000	13
89	Pentachloroethane	167	14.453	14.453	(0.982)	12211	12.5000	13
90	sec-Butyl Benzene	105	14.512	14.512	(0.986)	126734	12.5000	13
91	p-Isopropyl Toluene	119	14.571	14.571	(0.990)	89598	12.5000	13
92	1,3-Dichlorobenzene	146	14.680	14.680	(0.997)	32953	12.5000	13
93	1,4-Dichlorobenzene	146	14.739	14.739	(1.001)	31720	12.5000	13
94	n-Butyl Benzene	91	14.867	14.867	(1.010)	83145	12.5000	13
95	1,2-Dichlorobenzene	146	15.034	15.034	(1.021)	25474	12.5000	13
96	1,2-Dibromo-3-Chloropropane	75	15.625	15.625	(1.062)	2446	12.5000	13
97	1,2,4-Trichlorobenzene	180	16.374	16.374	(1.112)	28605	12.5000	13
98	Hexachlorobutadiene	225	16.443	16.443	(1.117)	11970	12.5000	13
99	Naphthalene	128	16.670	16.670	(1.133)	28616	12.5000	13
100	1,2,3-Trichlorobenzene	180	16.936	16.936	(1.151)	19820	12.5000	13
M 101	1,2-Dichloroethene (total)	96				43450	25.0000	25
M 102	Xylene (total)	106				130191	12.5000	39

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL271.d
Date : 23-MAR-2010 14:26
Client ID: VSTD001
Instrument: 5972hp71.i
Sample Info: 0C23006-CAL2:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL271.d
Report Date: 24-Mar-2010 14:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100323A71.b/0C23006-CAL271.d
Lab Smp Id: 0C23006-CAL2 Client Smp ID: VSTD001
Inj Date : 23-MAR-2010 14:26
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0C23006-CAL2:JAO
Misc Info : VSTD001
Comment :
Method : /chem/5972hp71.i/DF100323A71.b/W8260-B-25MLv14.m
Meth Date : 24-Mar-2010 14:29 walker Quant Type: ISTD
Cal Date : 23-MAR-2010 14:26 Cal File: 0C23006-CAL271.d
Als bottle: 2 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)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	11.077	11.077	(1.000)	591092	125.000	
* 2	Chlorobenzene-d5	117	13.215	13.215	(1.000)	476950	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.722	14.722	(1.000)	174328	125.000	
$ 4	Dibromofluoromethane	113	10.476	10.476	(0.946)	48942	25.0000	25
$ 5	1,2-Dichloroethane-d4	65	10.811	10.811	(0.976)	37897	25.0000	25
$ 6	Toluene-d8	98	12.239	12.239	(0.926)	133973	25.0000	24
$ 7	Bromofluorobenzene	95	13.944	13.944	(0.947)	60969	25.0000	25
8	Dichlorodifluoromethane	85	4.141	4.141	(0.374)	61993	25.0000	26
9	Chloromethane	50	4.643	4.643	(0.419)	41977	25.0000	25
10	Vinyl Chloride	62	4.919	4.919	(0.444)	32573	25.0000	24
11	Bromomethane	94	5.786	5.786	(0.522)	11243	25.0000	25
12	Chloroethane	64	6.033	6.033	(0.545)	19053	25.0000	25
13	Trichlorofluoromethane	101	6.575	6.575	(0.594)	97727	25.0000	25
14	Acrolein	56	7.441	7.441	(0.672)	10826	250.000	250
15	1,1,1-trichloro-2,2,2-trifluo	117	7.510	7.510	(0.678)	25399	25.0000	25

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Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL271.d
Report Date: 24-Mar-2010 14:29

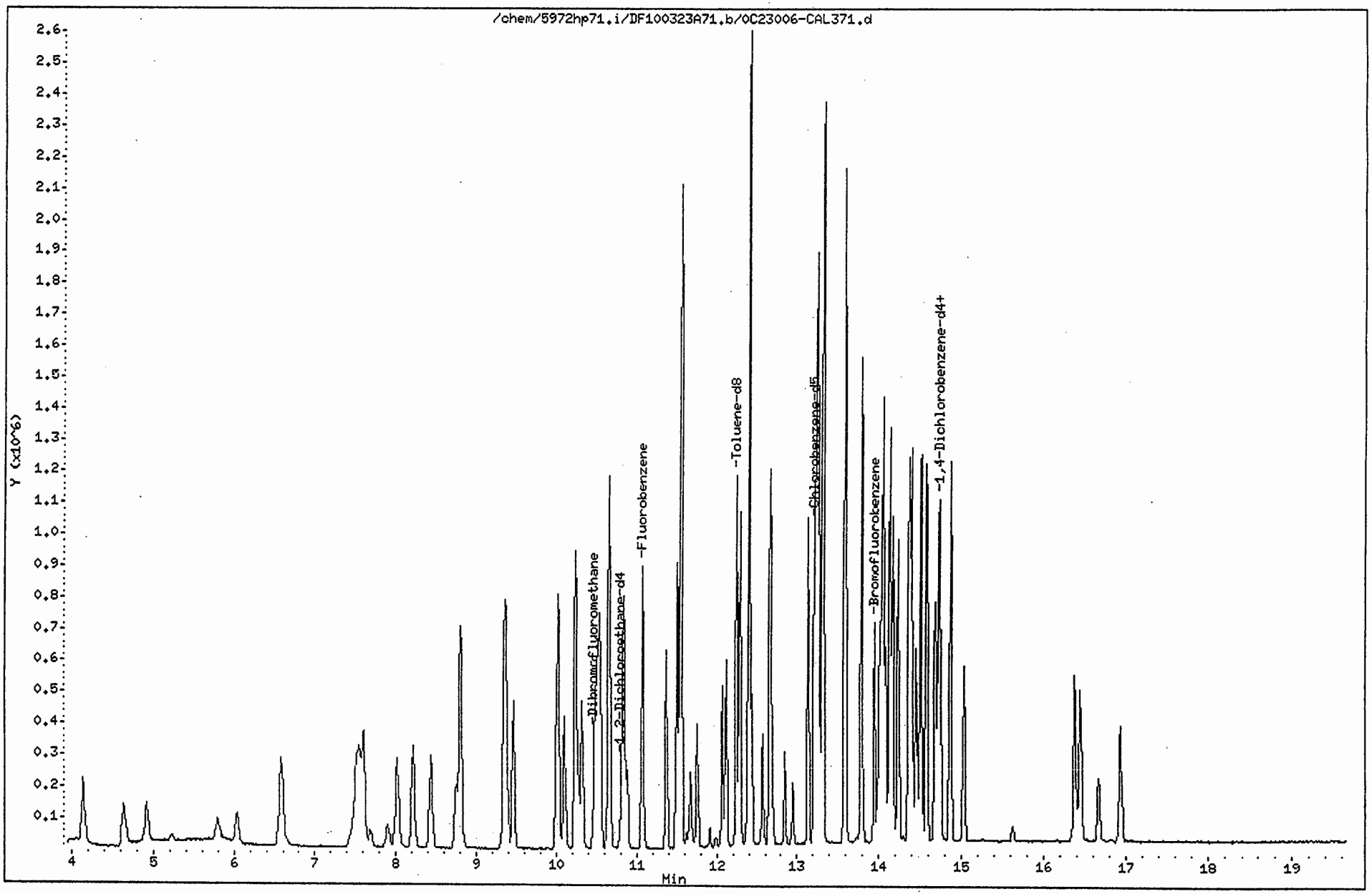
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	85	7.560	7.560	(0.682)	21766	25.0000	25
17 1,1-Dichloroethene	96	7.599	7.599	(0.686)	30708	25.0000	24
18 Acetone	43	7.688	7.688	(0.694)	19142	125.000	120
19 Iodomethane	142	7.895	7.895	(0.713)	25130	25.0000	26
20 Carbon disulfide	76	8.013	8.013	(0.723)	91556	25.0000	23
22 3-Chloropropene	39	8.210	8.210	(0.741)	35594	25.0000	24
23 Acetonitrile	41	8.210	8.210	(0.741)	42973	25.0000	21
24 Methyl acetate	43	8.200	8.200	(0.740)	9038	25.0000	20
25 Methylene Chloride	84	8.427	8.427	(0.761)	23676	25.0000	22
26 Acrylonitrile	53	8.801	8.801	(0.795)	38803	250.000	210
28 trans-1,2-Dichloroethene	96	8.801	8.801	(0.795)	35765	25.0000	24
27 Methyl-tert-butyl ether	73	8.752	8.752	(0.790)	48750	25.0000	25
30 Isopropyl ether	45	9.343	9.343	(0.843)	93420	25.0000	23
31 Vinyl acetate	43	9.353	9.353	(0.844)	108508	50.0000	47
32 1,1-Dichloroethane	63	9.373	9.373	(0.846)	61896	25.0000	24
33 Chloroprene	53	9.461	9.461	(0.854)	68715	25.0000	25
34 2-butanone	43	9.993	9.993	(0.902)	22944	125.000	110
35 2,2-Dichloropropane	77	10.013	10.013	(0.904)	59077	25.0000	25
36 cis-1,2-Dichloroethene	96	10.023	10.023	(0.905)	36712	25.0000	24
37 Propionitrile	54	10.102	10.102	(0.912)	72532	1250.00	1100
38 Methacrylonitrile	41	10.240	10.240	(0.924)	79709	250.000	220
39 Bromochloromethane	128	10.269	10.269	(0.927)	12247	25.0000	25
40 Chloroform	83	10.318	10.318	(0.931)	59723	25.0000	25
42 1,1,1-Trichloroethane	97	10.506	10.506	(0.948)	77910	25.0000	26
43 Cyclohexane	84	10.545	10.545	(0.952)	41840	25.0000	25
44 1,1-dichloropropene	75	10.653	10.653	(0.962)	44702	25.0000	23
45 Isobutyl alcohol	43	10.673	10.673	(0.964)	18482	1250.00	1100
46 Carbon Tetrachloride	117	10.653	10.653	(0.962)	75720	25.0000	25
47 Benzene	78	10.841	10.841	(0.979)	95788	25.0000	24
48 1,2-Dichloroethane	62	10.880	10.880	(0.982)	43703	25.0000	26
49 Trichloroethene	130	11.373	11.373	(1.027)	33857	25.0000	25
50 Methylcyclohexane	83	11.510	11.510	(1.039)	51142	25.0000	25
51 1,2-Dichloropropane	63	11.560	11.560	(1.044)	25035	25.0000	22
52 Methylmethacrylate	69	11.560	11.560	(1.044)	87028	250.000	240
53 1,4-dioxane	88	11.629	11.629	(1.050)	3916	1250.00	1100
54 Dibromomethane	174	11.678	11.678	(1.054)	15727	25.0000	26
55 Bromodichloromethane	83	11.757	11.757	(1.061)	42956	25.0000	25
56 2-chloroethyl vinyl ether	63	11.914	11.914	(1.076)	4328	50.0000	50
57 cis-1,3-Dichloropropene	75	12.072	12.072	(1.090)	37894	25.0000	24
58 4-Methyl-2-pentanone	43	12.121	12.121	(0.917)	60231	125.000	110
59 Toluene	92	12.289	12.289	(0.930)	78997	25.0000	23
60 Ethylmethacrylate	69	12.397	12.397	(0.938)	202669	250.000	230
61 trans-1,3-Dichloropropene	75	12.437	12.437	(0.941)	35248	25.0000	23
62 1,1,2-Trichloroethane	97	12.565	12.565	(0.951)	19051	25.0000	24
63 2-hexanone	43	12.653	12.653	(0.957)	42938	125.000	110
64 1,3-Dichloropropane	76	12.683	12.683	(0.960)	26187	25.0000	22
65 Tetrachloroethene	164	12.663	12.663	(0.958)	34307	25.0000	25

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL271.d
Report Date: 24-Mar-2010 14:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66	Dibromochloromethane	129	12.840	12.840	(0.972)	26120	25.0000	24
67	1,2-Dibromoethane	107	12.949	12.949	(0.980)	25273	25.0000	24
68	1-Chlorohexane	55	13.136	13.136	(0.994)	48368	25.0000	23
69	Chlorobenzene	112	13.235	13.235	(1.001)	110140	25.0000	25
70	Ethylbenzene	106	13.254	13.254	(1.003)	64648	25.0000	24
71	1,1,1,2-Tetrachloroethane	131	13.274	13.274	(1.004)	30646	25.0000	25
72	m,p-Xylene	106	13.313	13.313	(1.007)	160092	50.0000	49
73	m,p-Xylene (part of total)	106	13.313	13.313	(1.007)	160092	50.0000	49
74	o-Xylene	106	13.579	13.579	(1.028)	73368	25.0000	24
75	o-Xylene (part of total)	106	13.579	13.579	(1.028)	73368	25.0000	24
76	Styrene	104	13.589	13.589	(1.028)	109178	25.0000	24
77	Bromoform	173	13.776	13.776	(1.042)	16945	25.0000	25
78	Isopropyl Benzene	105	13.786	13.786	(1.043)	215900	25.0000	25
79	1,1,2,2-Tetrachloroethane	83	13.993	13.993	(0.950)	16747	25.0000	23
81	1,2,3-Trichloropropane	110	14.052	14.052	(1.063)	7002	25.0000	23
80	trans-1,4-dichloro-2-butene	53	14.013	14.013	(1.060)	30789	100.000	90
82	n-Propyl Benzene	91	14.042	14.042	(0.954)	202892	25.0000	23
83	Bromobenzene	156	14.082	14.082	(1.066)	29653	25.0000	24
84	1,3,5-Trimethyl Benzene	105	14.131	14.131	(0.960)	166491	25.0000	24
85	2-Chlorotoluene	126	14.171	14.171	(0.963)	36876	25.0000	24
86	4-Chlorotoluene	126	14.230	14.230	(0.967)	36470	25.0000	24
87	tert-Butyl Benzene	119	14.368	14.368	(0.976)	141579	25.0000	24
88	1,2,4-Trimethyl Benzene	105	14.397	14.397	(0.978)	160827	25.0000	24
89	Pentachloroethane	167	14.456	14.456	(0.982)	23509	25.0000	25
90	sec-Butyl Benzene	105	14.505	14.505	(0.985)	221299	25.0000	24
91	p-Isopropyl Toluene	119	14.574	14.574	(0.990)	162618	25.0000	24
92	1,3-Dichlorobenzene	146	14.683	14.683	(0.997)	62357	25.0000	25
93	1,4-Dichlorobenzene	146	14.742	14.742	(1.001)	59390	25.0000	25
94	n-Butyl Benzene	91	14.860	14.860	(1.009)	140166	25.0000	23
95	1,2-Dichlorobenzene	146	15.028	15.028	(1.021)	47485	25.0000	25
96	1,2-Dibromo-3-Chloropropane	75	15.629	15.629	(1.062)	4299	25.0000	25
97	1,2,4-Trichlorobenzene	180	16.377	16.377	(1.112)	57495	25.0000	25
98	Hexachlorobutadiene	225	16.446	16.446	(1.117)	24168	25.0000	26
99	Naphthalene	128	16.673	16.673	(1.133)	42694	25.0000	22
100	1,2,3-Trichlorobenzene	180	16.939	16.939	(1.151)	41984	25.0000	26
M 101	1,2-Dichloroethene (total)	96				72477	50.0000	49
M 102	Xylene (total)	106				233460	25.0000	76

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL371.d
Date : 23-MAR-2010 15:29
Client ID: VSTD005
Sample Info: 0C23006-CAL3:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL371.d
Report Date: 24-Mar-2010 14:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100323A71.b/0C23006-CAL371.d
Lab Smp Id: 0C23006-CAL3 Client Smp ID: VSTD005
Inj Date : 23-MAR-2010 15:29
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0C23006-CAL3:JAO
Misc Info : VSTD005
Comment :
Method : /chem/5972hp71.i/DF100323A71.b/W8260-B-25MLv14.m
Meth Date : 24-Mar-2010 14:29 walker Quant Type: ISTD
Cal Date : 23-MAR-2010 15:29 Cal File: 0C23006-CAL371.d
Als bottle: 4 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	11.073	11.073	(1.000)	740723	125.000	
* 2	Chlorobenzene-d5	117	13.211	13.211	(1.000)	522137	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.719	14.719	(1.000)	187483	125.000	
$ 4	Dibromofluoromethane	113	10.472	10.472	(0.946)	230137	125.000	110
$ 5	1,2-Dichloroethane-d4	65	10.807	10.807	(0.976)	170690	125.000	120
$ 6	Toluene-d8	98	12.246	12.246	(0.927)	678451	125.000	110
$ 7	Bromofluorobenzene	95	13.940	13.940	(0.947)	251624	125.000	110
8	Dichlorodifluoromethane	85	4.137	4.137	(0.374)	286880	125.000	100
9	Chloromethane	50	4.640	4.640	(0.419)	258610	125.000	120
10	Vinyl Chloride	62	4.916	4.916	(0.444)	206995	125.000	120
11	Bromomethane	94	5.793	5.793	(0.523)	80878	125.000	130
12	Chloroethane	64	6.039	6.039	(0.545)	120065	125.000	130
13	Trichlorofluoromethane	101	6.581	6.581	(0.594)	435488	125.000	120
14	Acrolein	56	7.448	7.448	(0.673)	58590	1250.00	1100
15	1,1,1-trichloro-2,2,2-trifluo	117	7.507	7.507	(0.678)	102837	125.000	120

3/24/10

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL371.d
Report Date: 24-Mar-2010 14:29

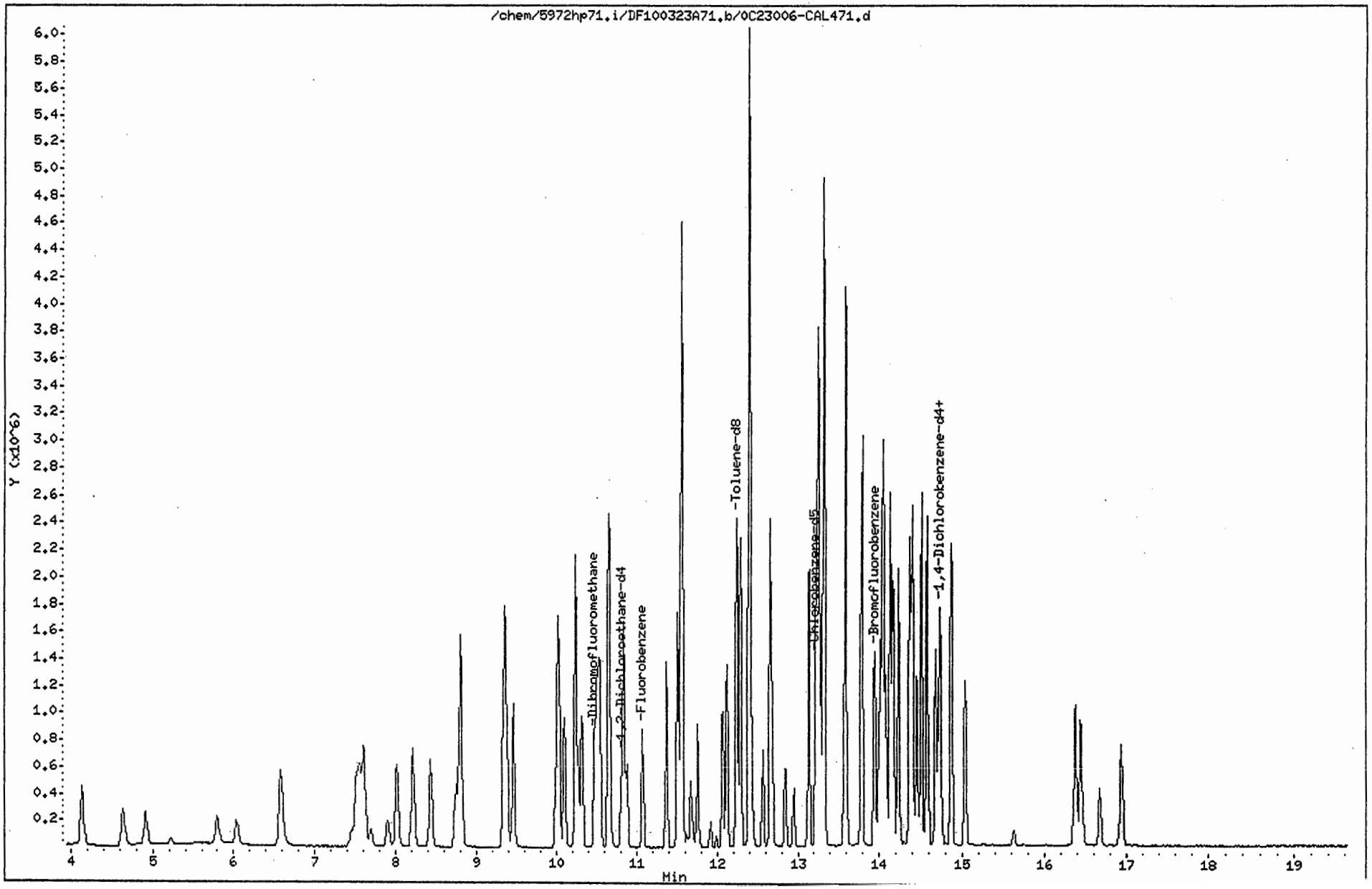
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16	1,1,2-trichloro-1,2,2-trifluo	85	7.546	7.546	(0.681)	108037	125.000	120
17	1,1-Dichloroethene	96	7.605	7.605	(0.687)	173102	125.000	110
18	Acetone	43	7.684	7.684	(0.694)	102795	625.000	540
19	Iodomethane	142	7.901	7.901	(0.713)	119464	125.000	110
20	Carbon disulfide	76	8.009	8.009	(0.723)	576170	125.000	120
22	3-Chloropropene	39	8.206	8.206	(0.741)	209538	125.000	120
23	Acetonitrile	41	8.206	8.206	(0.741)	298791	125.000	120
24	Methyl acetate	43	8.197	8.197	(0.740)	59319	125.000	110
25	Methylene Chloride	84	8.433	8.433	(0.762)	143296	125.000	110
26	Acrylonitrile	53	8.798	8.798	(0.794)	260377	1250.00	1200
28	trans-1,2-Dichloroethene	96	8.798	8.798	(0.794)	192327	125.000	110
27	Methyl-tert-butyl ether	73	8.748	8.748	(0.790)	239201	125.000	100
30	Isopropyl ether	45	9.339	9.339	(0.843)	634481	125.000	120
31	Vinyl acetate	43	9.349	9.349	(0.844)	706114	250.000	240
32	1,1-Dichloroethane	63	9.379	9.379	(0.847)	372285	125.000	120
33	Chloroprene	53	9.458	9.458	(0.854)	363662	125.000	110
34	2-butanone	43	9.990	9.990	(0.902)	151019	625.000	600
35	2,2-Dichloropropane	77	10.009	10.009	(0.904)	313338	125.000	110
36	cis-1,2-Dichloroethene	96	10.029	10.029	(0.906)	195258	125.000	110
37	Propionitrile	54	10.098	10.098	(0.912)	442304	6250.00	5800
38	Methacrylonitrile	41	10.236	10.236	(0.924)	538635	1250.00	1200
39	Bromochloromethane	128	10.275	10.275	(0.928)	55632	125.000	120
40	Chloroform	83	10.325	10.325	(0.932)	333778	125.000	110
42	1,1,1-Trichloroethane	97	10.512	10.512	(0.949)	395133	125.000	110
43	Cyclohexane	84	10.541	10.541	(0.952)	229413	125.000	120
44	1,1-dichloropropene	75	10.660	10.660	(0.963)	258377	125.000	110
45	Isobutyl alcohol	43	10.669	10.669	(0.964)	117484	6250.00	5800
46	Carbon Tetrachloride	117	10.650	10.650	(0.962)	330152	125.000	120
47	Benzene	78	10.837	10.837	(0.979)	570015	125.000	120
48	1,2-Dichloroethane	62	10.876	10.876	(0.982)	217227	125.000	110
49	Trichloroethene	130	11.379	11.379	(1.028)	162061	125.000	100
50	Methylcyclohexane	83	11.507	11.507	(1.039)	263181	125.000	120
51	1,2-Dichloropropane	63	11.566	11.566	(1.044)	164226	125.000	120
52	Methylmethacrylate	69	11.556	11.556	(1.044)	486820	1250.00	1100
53	1,4-dioxane	88	11.625	11.625	(1.050)	23174	6250.00	5600
54	Dibromomethane	174	11.674	11.674	(1.054)	70504	125.000	100
55	Bromodichloromethane	83	11.753	11.753	(1.061)	221170	125.000	110
56	2-chloroethyl vinyl ether	63	11.921	11.921	(1.077)	22550	250.000	250
57	cis-1,3-Dichloropropene	75	12.068	12.068	(1.090)	212485	125.000	110
58	4-Methyl-2-pentanone	43	12.118	12.118	(0.917)	377660	625.000	610
59	Toluene	92	12.285	12.285	(0.930)	432510	125.000	120
60	Ethylmethacrylate	69	12.403	12.403	(0.939)	1076787	1250.00	1200
61	trans-1,3-Dichloropropene	75	12.433	12.433	(0.941)	184346	125.000	110
62	1,1,2-Trichloroethane	97	12.571	12.571	(0.952)	95609	125.000	120
63	2-hexanone	43	12.660	12.660	(0.958)	253336	625.000	600
64	1,3-Dichloropropane	76	12.689	12.689	(0.960)	146966	125.000	120
65	Tetrachloroethene	164	12.660	12.660	(0.958)	147476	125.000	120

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL371.d
Report Date: 24-Mar-2010 14:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66	Dibromochloromethane	129	12.847	12.847	(0.972)	129367	125.000	110
67	1,2-Dibromoethane	107	12.945	12.945	(0.980)	122413	125.000	110
68	1-Chlorohexane	55	13.132	13.132	(0.994)	240530	125.000	110
69	Chlorobenzene	112	13.231	13.231	(1.001)	528012	125.000	110
70	Ethylbenzene	106	13.251	13.251	(1.003)	307239	125.000	110
71	1,1,1,2-Tetrachloroethane	131	13.270	13.270	(1.004)	144975	125.000	110
72	m,p-Xylene	106	13.320	13.320	(1.008)	784580	250.000	230
73	m,p-Xylene (part of total)	106	13.320	13.320	(1.008)	784580	250.000	230
74	o-Xylene	106	13.586	13.586	(1.028)	355433	125.000	110
75	o-Xylene (part of total)	106	13.586	13.586	(1.028)	355433	125.000	110
76	Styrene	104	13.586	13.586	(1.028)	550455	125.000	120
77	Bromoform	173	13.773	13.773	(1.042)	77080	125.000	110
78	Isopropyl Benzene	105	13.783	13.783	(1.043)	1000862	125.000	110
79	1,1,2,2-Tetrachloroethane	83	13.990	13.990	(0.950)	88429	125.000	120
81	1,2,3-Trichloropropane	110	14.049	14.049	(1.063)	33916	125.000	110
80	trans-1,4-dichloro-2-butene	53	14.009	14.009	(1.060)	161209	500.000	450
82	n-Propyl Benzene	91	14.039	14.039	(0.954)	1049945	125.000	120
83	Bromobenzene	156	14.078	14.078	(1.066)	146264	125.000	110
84	1,3,5-Trimethyl Benzene	105	14.128	14.128	(0.960)	801708	125.000	110
85	2-Chlorotoluene	126	14.167	14.167	(0.963)	178240	125.000	110
86	4-Chlorotoluene	126	14.236	14.236	(0.967)	178637	125.000	110
87	tert-Butyl Benzene	119	14.364	14.364	(0.976)	654994	125.000	110
88	1,2,4-Trimethyl Benzene	105	14.394	14.394	(0.978)	778023	125.000	110
89	Pentachloroethane	167	14.453	14.453	(0.982)	108446	125.000	110
90	sec-Butyl Benzene	105	14.512	14.512	(0.986)	1065857	125.000	110
91	p-Isopropyl Toluene	119	14.571	14.571	(0.990)	761709	125.000	110
92	1,3-Dichlorobenzene	146	14.679	14.679	(0.997)	276358	125.000	110
93	1,4-Dichlorobenzene	146	14.738	14.738	(1.001)	269178	125.000	110
94	n-Butyl Benzene	91	14.866	14.866	(1.010)	710386	125.000	110
95	1,2-Dichlorobenzene	146	15.034	15.034	(1.021)	219452	125.000	110
96	1,2-Dibromo-3-Chloropropane	75	15.625	15.625	(1.062)	14758	125.000	120
97	1,2,4-Trichlorobenzene	180	16.374	16.374	(1.112)	220277	125.000	120
98	Hexachlorobutadiene	225	16.443	16.443	(1.117)	106450	125.000	110
99	Naphthalene	128	16.669	16.669	(1.133)	197497	125.000	100
100	1,2,3-Trichlorobenzene	180	16.935	16.935	(1.151)	166414	125.000	100
M 101	1,2-Dichloroethene (total)	96				387585	250.000	220
M 102	Xylene (total)	106				1140013	125.000	360

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL471.d
Date : 23-MAR-2010 15:58
Client ID: VSTD010
Sample Info: 0C23006-CAL4:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL471.d
Report Date: 24-Mar-2010 14:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100323A71.b/0C23006-CAL471.d
Lab Smp Id: 0C23006-CAL4 Client Smp ID: VSTD010
Inj Date : 23-MAR-2010 15:58
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0C23006-CAL4:JAO
Misc Info : VSTD010
Comment :
Method : /chem/5972hp71.i/DF100323A71.b/W8260-B-25MLv14.m
Meth Date : 24-Mar-2010 14:29 walker Quant Type: ISTD
Cal Date : 23-MAR-2010 15:58 Cal File: 0C23006-CAL471.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	11.078	11.078	(1.000)	.750427	125.000	
*	2 Chlorobenzene-d5	117	13.216	13.216	(1.000)	537759	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.723	14.723	(1.000)	194664	125.000	
$	4 Dibromofluoromethane	113	10.477	10.477	(0.946)	494665	250.000	230
$	5 1,2-Dichloroethane-d4	65	10.812	10.812	(0.976)	382888	250.000	250
$	6 Toluene-d8	98	12.240	12.240	(0.926)	1373736	250.000	230
$	7 Bromofluorobenzene	95	13.945	13.945	(0.947)	538433	250.000	230
	8 Dichlorodifluoromethane	85	4.142	4.142	(0.374)	615483	250.000	220
	9 Chloromethane	50	4.644	4.644	(0.419)	546669	250.000	250
	10 Vinyl Chloride	62	4.920	4.920	(0.444)	399541	250.000	240
	11 Bromomethane	94	5.797	5.797	(0.523)	232561	250.000	260
	12 Chloroethane	64	6.033	6.033	(0.545)	225873	250.000	250
	13 Trichlorofluoromethane	101	6.585	6.585	(0.594)	908262	250.000	250
	14 Acrolein	56	7.442	7.442	(0.672)	137125	2500.00	2600
	15 1,1,1-trichloro-2,2,2-trifluo	117	7.511	7.511	(0.678)	197982	250.000	250

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Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL471.d
Report Date: 24-Mar-2010 14:29

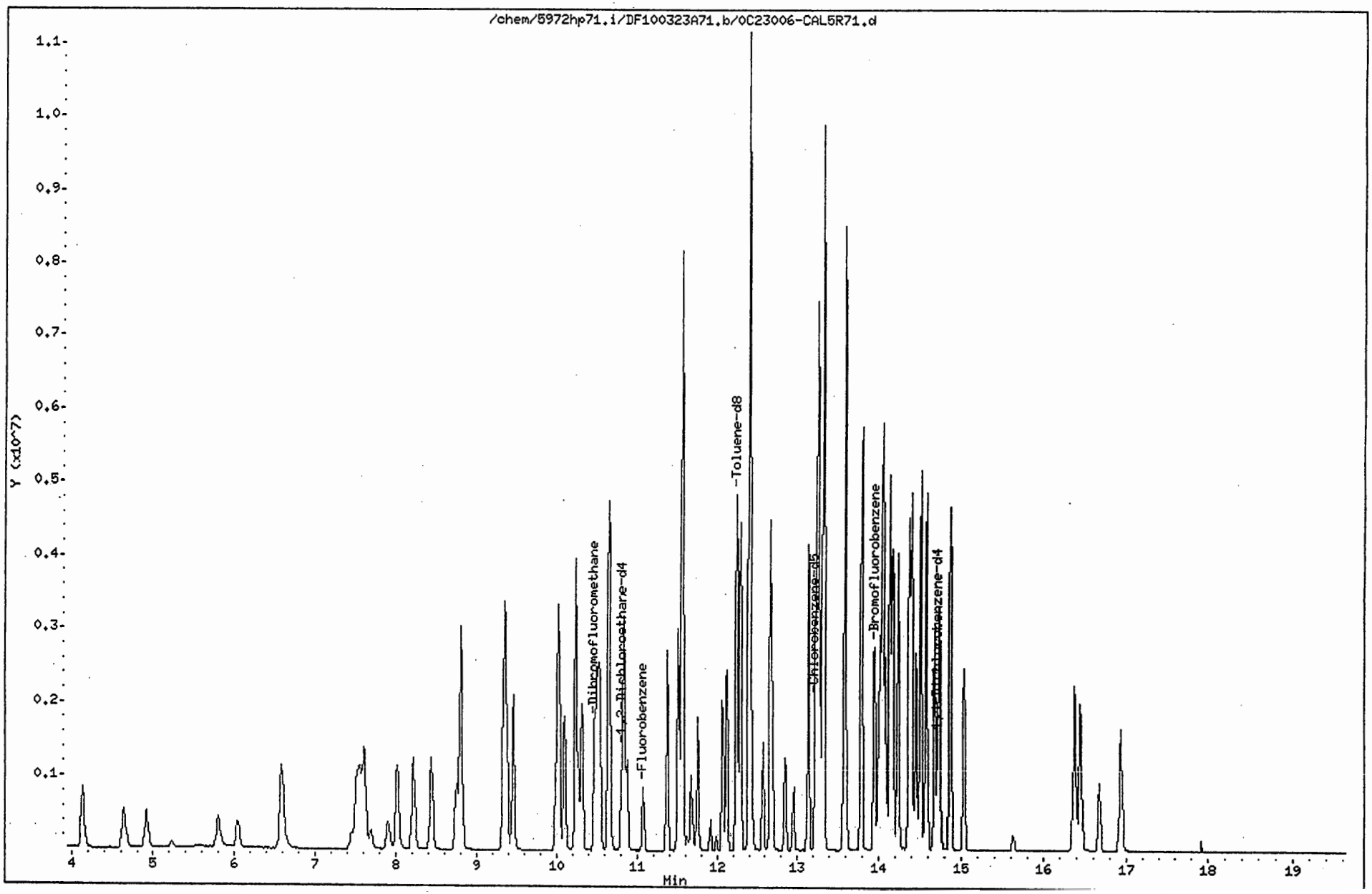
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	85	7.551	7.551	(0.682)	211313	250.000	250
17 1,1-Dichloroethene	96	7.610	7.610	(0.687)	348355	250.000	230
18 Acetone	43	7.689	7.689	(0.694)	233968	1250.00	1200
19 Iodomethane	142	7.895	7.895	(0.713)	307359	250.000	270
20 Carbon disulfide	76	8.014	8.014	(0.723)	1192126	250.000	250
22 3-Chloropropene	39	8.211	8.211	(0.741)	473112	250.000	260
23 Acetonitrile	41	8.211	8.211	(0.741)	676074	250.000	260
24 Methyl acetate	43	8.201	8.201	(0.740)	141544	250.000	260
25 Methylene Chloride	84	8.437	8.437	(0.762)	304126	250.000	240
26 Acrylonitrile	53	8.802	8.802	(0.795)	621036	2500.00	2700
28 trans-1,2-Dichloroethene	96	8.802	8.802	(0.795)	410670	250.000	240
27 Methyl-tert-butyl ether	73	8.753	8.753	(0.790)	562206	250.000	240
30 Isopropyl ether	45	9.344	9.344	(0.843)	1413275	250.000	270
31 Vinyl acetate	43	9.354	9.354	(0.844)	1612477	500.000	540
32 1,1-Dichloroethane	63	9.373	9.373	(0.846)	777270	250.000	240
33 Chloroprene	53	9.462	9.462	(0.854)	838405	250.000	250
34 2-butanone	43	9.994	9.994	(0.902)	370146	1250.00	1400
35 2,2-Dichloropropane	77	10.014	10.014	(0.904)	657532	250.000	240
36 cis-1,2-Dichloroethene	96	10.033	10.033	(0.906)	416411	250.000	240
37 Propionitrile	54	10.102	10.102	(0.912)	1023284	12500.0	13000
38 Methacrylonitrile	41	10.240	10.240	(0.924)	1245746	2500.00	2700
39 Bromochloromethane	128	10.280	10.280	(0.928)	121065	250.000	250
40 Chloroform	83	10.319	10.319	(0.932)	699484	250.000	240
42 1,1,1-Trichloroethane	97	10.516	10.516	(0.949)	806416	250.000	230
43 Cyclohexane	84	10.546	10.546	(0.952)	443702	250.000	250
44 1,1-dichloropropene	75	10.654	10.654	(0.962)	526539	250.000	230
45 Isobutyl alcohol	43	10.674	10.674	(0.964)	273821	12500.0	13000
46 Carbon Tetrachloride	117	10.654	10.654	(0.962)	681082	250.000	250
47 Benzene	78	10.841	10.841	(0.979)	1199280	250.000	240
48 1,2-Dichloroethane	62	10.881	10.881	(0.982)	482026	250.000	240
49 Trichloroethene	130	11.373	11.373	(1.027)	337946	250.000	220
50 Methylcyclohexane	83	11.511	11.511	(1.039)	508284	250.000	250
51 1,2-Dichloropropane	63	11.570	11.570	(1.044)	337486	250.000	250
52 Methylmethacrylate	69	11.560	11.560	(1.044)	1110604	2500.00	2500
53 1,4-dioxane	88	11.629	11.629	(1.050)	51060	12500.0	12000
54 Dibromomethane	174	11.679	11.679	(1.054)	154544	250.000	230
55 Bromodichloromethane	83	11.758	11.758	(1.061)	482067	250.000	240
56 2-chloroethyl vinyl ether	63	11.915	11.915	(1.076)	72219	500.000	520
57 cis-1,3-Dichloropropene	75	12.073	12.073	(1.090)	470554	250.000	240
58 4-Methyl-2-pentanone	43	12.122	12.122	(0.917)	888173	1250.00	1400
59 Toluene	92	12.290	12.290	(0.930)	877565	250.000	240
60 Ethylmethacrylate	69	12.398	12.398	(0.938)	2411279	2500.00	2500
61 trans-1,3-Dichloropropene	75	12.437	12.437	(0.941)	410070	250.000	250
62 1,1,2-Trichloroethane	97	12.565	12.565	(0.951)	206481	250.000	240
63 2-hexanone	43	12.654	12.654	(0.957)	596626	1250.00	1300
64 1,3-Dichloropropane	76	12.684	12.684	(0.960)	327220	250.000	250
65 Tetrachloroethene	164	12.664	12.664	(0.958)	285847	250.000	250

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL471.d
Report Date: 24-Mar-2010 14:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66	Dibromochloromethane	129	12.851	12.851	(0.972)	284434	250.000	240
67	1,2-Dibromoethane	107	12.950	12.950	(0.980)	268131	250.000	240
68	1-Chlorohexane	55	13.137	13.137	(0.994)	546293	250.000	250
69	Chlorobenzene	112	13.235	13.235	(1.001)	1080983	250.000	230
70	Ethylbenzene	106	13.245	13.245	(1.002)	624515	250.000	230
71	1,1,1,2-Tetrachloroethane	131	13.275	13.275	(1.004)	307101	250.000	240
72	m,p-Xylene	106	13.314	13.314	(1.007)	1539652	500.000	450
73	m,p-Xylene (part of total)	106	13.314	13.314	(1.007)	1539652	500.000	450
74	o-Xylene	106	13.580	13.580	(1.028)	731637	250.000	230
75	o-Xylene (part of total)	106	13.580	13.580	(1.028)	731637	250.000	230
76	Styrene	104	13.590	13.590	(1.028)	1143157	250.000	240
77	Bromoform	173	13.777	13.777	(1.042)	173012	250.000	240
78	Isopropyl Benzene	105	13.787	13.787	(1.043)	1985791	250.000	220
79	1,1,2,2-Tetrachloroethane	83	13.994	13.994	(0.950)	193918	250.000	250
81	1,2,3-Trichloropropane	110	14.053	14.053	(1.063)	78850	250.000	250
80	trans-1,4-dichloro-2-butene	53	14.014	14.014	(1.060)	370282	1000.00	1000
82	n-Propyl Benzene	91	14.043	14.043	(0.954)	2056221	250.000	230
83	Bromobenzene	156	14.083	14.083	(1.066)	304128	250.000	230
84	1,3,5-Trimethyl Benzene	105	14.132	14.132	(0.960)	1607024	250.000	230
85	2-Chlorotoluene	126	14.171	14.171	(0.963)	359806	250.000	230
86	4-Chlorotoluene	126	14.230	14.230	(0.967)	359922	250.000	230
87	tert-Butyl Benzene	119	14.368	14.368	(0.976)	1300292	250.000	220
88	1,2,4-Trimethyl Benzene	105	14.398	14.398	(0.978)	1597431	250.000	230
89	Pentachloroethane	167	14.457	14.457	(0.982)	243503	250.000	250
90	sec-Butyl Benzene	105	14.506	14.506	(0.985)	2092646	250.000	220
91	p-Isopropyl Toluene	119	14.575	14.575	(0.990)	1486458	250.000	220
92	1,3-Dichlorobenzene	146	14.684	14.684	(0.997)	573221	250.000	220
93	1,4-Dichlorobenzene	146	14.733	14.733	(1.001)	537223	250.000	220
94	n-Butyl Benzene	91	14.861	14.861	(1.009)	1356180	250.000	220
95	1,2-Dichlorobenzene	146	15.028	15.028	(1.021)	448752	250.000	230
96	1,2-Dibromo-3-Chloropropane	75	15.620	15.620	(1.061)	34816	250.000	260
97	1,2,4-Trichlorobenzene	180	16.378	16.378	(1.112)	457948	250.000	250
98	Hexachlorobutadiene	225	16.447	16.447	(1.117)	215482	250.000	220
99	Naphthalene	128	16.674	16.674	(1.132)	454065	250.000	230
100	1,2,3-Trichlorobenzene	180	16.930	16.930	(1.150)	357904	250.000	220
M 101	1,2-Dichloroethene (total)	96				827081	500.000	470
M 102	Xylene (total)	106				2271289	250.000	710

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL5R71.d
Date : 23-MAR-2010 17:21
Client ID: VSTD020
Sample Info: 0C23006-CAL5:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL5R71.d
Report Date: 24-Mar-2010 14:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100323A71.b/0C23006-CAL5R71.d
Lab Smp Id: 0C23006-CAL5 Client Smp ID: VSTD020
Inj Date : 23-MAR-2010 17:21
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0C23006-CAL5:JAO
Misc Info : VSTD020
Comment :
Method : /chem/5972hp71.i/DF100323A71.b/W8260-B-25MLv14.m
Meth Date : 24-Mar-2010 14:29 walker Quant Type: ISTD
Cal Date : 23-MAR-2010 17:21 Cal File: 0C23006-CAL5R71.d
Als bottle: 8 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 (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	11.079	11.079	(1.000)	763174	125.000	
* 2 Chlorobenzene-d5	117	13.217	13.217	(1.000)	573105	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.715	14.715	(1.000)	196253	125.000	
$ 4 Dibromofluoromethane	113	10.478	10.478	(0.946)	1015121	500.000	480
$ 5 1,2-Dichloroethane-d4	65	10.813	10.813	(0.976)	752537	500.000	500
$ 6 Toluene-d8	98	12.242	12.242	(0.926)	2757124	500.000	440
$ 7 Bromofluorobenzene	95	13.936	13.936	(0.947)	1089753	500.000	470
8 Dichlorodifluoromethane	85	4.143	4.143	(0.374)	1239716	500.000	460
9 Chloromethane	50	4.636	4.636	(0.418)	1147978	500.000	520
10 Vinyl Chloride	62	4.922	4.922	(0.444)	860473	500.000	510
11 Bromomethane	94	5.798	5.798	(0.523)	537917	500.000	510
12 Chloroethane	64	6.035	6.035	(0.545)	506203	500.000	510
13 Trichlorofluoromethane	101	6.587	6.587	(0.595)	1986286	500.000	510
14 Acrolein	56	7.444	7.444	(0.672)	272629	5000.00	5000
15 1,1,1-trichloro-2,2,2-trifluo	117	7.513	7.513	(0.678)	389618	500.000	500

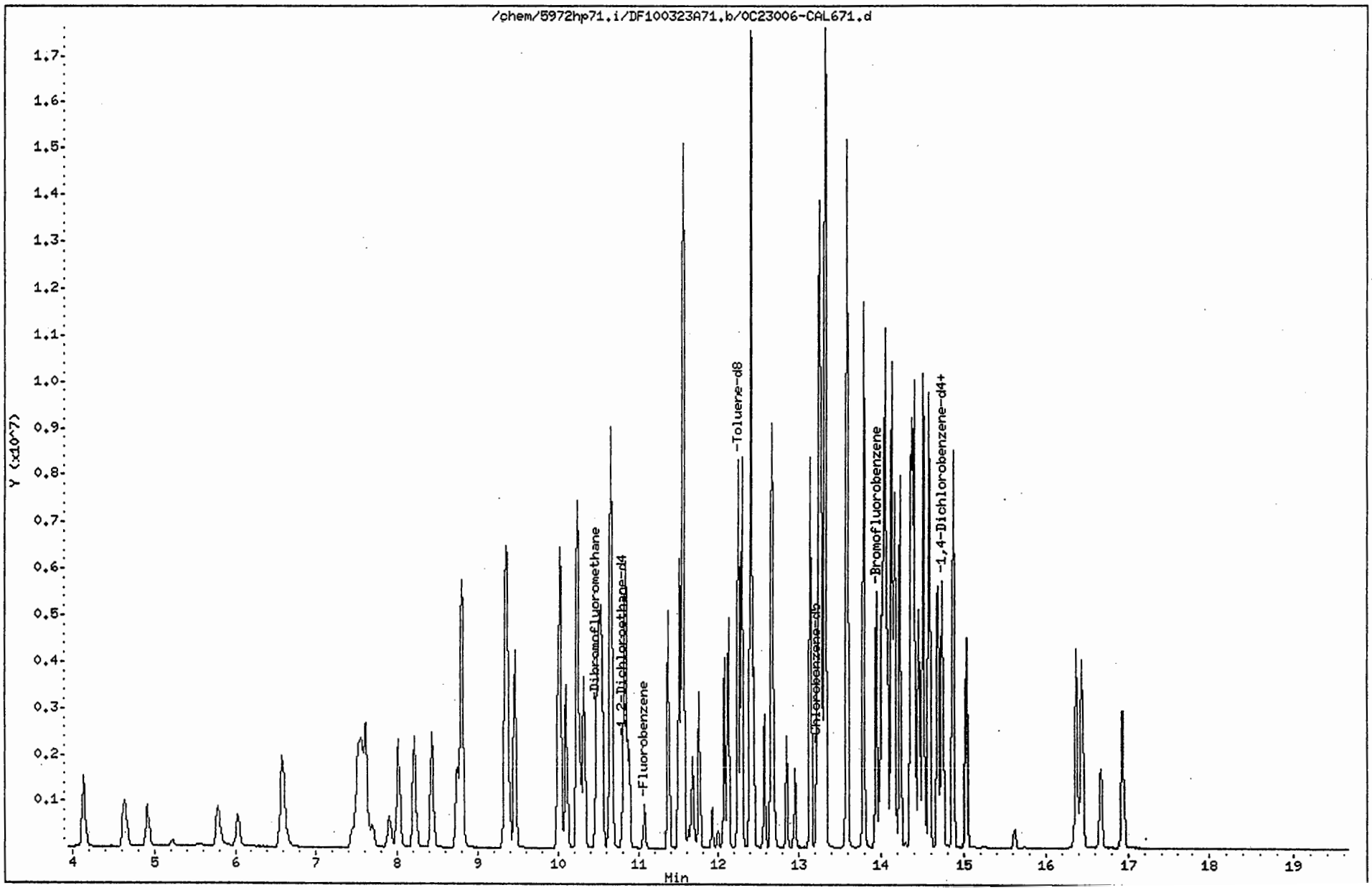
Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL5R71.d
Report Date: 24-Mar-2010 14:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	85	7.552	7.552	(0.682)	385347	500.000	490
17 1,1-Dichloroethene	96	7.611	7.611	(0.687)	698216	500.000	460
18 Acetone	43	7.690	7.690	(0.694)	445637	2500.00	2300
19 Iodomethane	142	7.897	7.897	(0.713)	597015	500.000	510
20 Carbon disulfide	76	8.015	8.015	(0.723)	2311692	500.000	480
22 3-Chloropropene	39	8.212	8.212	(0.741)	825099	500.000	450
23 Acetonitrile	41	8.212	8.212	(0.741)	1178623	500.000	460
24 Methyl acetate	43	8.202	8.202	(0.740)	264011	500.000	480
25 Methylene Chloride	84	8.439	8.439	(0.762)	609863	500.000	480
26 Acrylonitrile	53	8.803	8.803	(0.795)	1192037	5000.00	5100
28 trans-1,2-Dichloroethene	96	8.803	8.803	(0.795)	819888	500.000	470
27 Methyl-tert-butyl ether	73	8.744	8.744	(0.789)	1123558	500.000	480
30 Isopropyl ether	45	9.345	9.345	(0.843)	2644050	500.000	490
31 Vinyl acetate	43	9.355	9.355	(0.844)	3043343	1000.00	1000
32 1,1-Dichloroethane	63	9.375	9.375	(0.846)	1550285	500.000	480
33 Chloroprene	53	9.463	9.463	(0.854)	1663666	500.000	490
34 2-butanone	43	9.995	9.995	(0.902)	689210	2500.00	2500
35 2,2-Dichloropropane	77	10.015	10.015	(0.904)	1260024	500.000	450
36 cis-1,2-Dichloroethene	96	10.035	10.035	(0.906)	841712	500.000	470
37 Propionitrile	54	10.104	10.104	(0.912)	1988044	25000.0	25000
38 Methacrylonitrile	41	10.242	10.242	(0.924)	2265414	5000.00	4800
39 Bromochloromethane	128	10.281	10.281	(0.928)	241000	500.000	500
40 Chloroform	83	10.321	10.321	(0.932)	1410941	500.000	480
42 1,1,1-Trichloroethane	97	10.508	10.508	(0.948)	1583393	500.000	450
43 Cyclohexane	84	10.547	10.547	(0.952)	797686	500.000	490
44 1,1-dichloropropene	75	10.656	10.656	(0.962)	983366	500.000	440
45 Isobutyl alcohol	43	10.675	10.675	(0.964)	532800	25000.0	25000
46 Carbon Tetrachloride	117	10.656	10.656	(0.962)	1362499	500.000	500
47 Benzene	78	10.843	10.843	(0.979)	2330705	500.000	470
48 1,2-Dichloroethane	62	10.882	10.882	(0.982)	980521	500.000	490
49 Trichloroethene	130	11.375	11.375	(1.027)	683050	500.000	450
50 Methylcyclohexane	83	11.513	11.513	(1.039)	896634	500.000	490
51 1,2-Dichloropropane	63	11.572	11.572	(1.044)	647264	500.000	470
52 Methylmethacrylate	69	11.562	11.562	(1.044)	2033819	5000.00	4600
53 1,4-dioxane	88	11.631	11.631	(1.050)	105140	25000.0	25000
54 Dibromomethane	174	11.670	11.670	(1.053)	331797	500.000	480
55 Bromodichloromethane	83	11.759	11.759	(1.061)	976246	500.000	480
56 2-chloroethyl vinyl ether	63	11.917	11.917	(1.076)	150625	1000.00	1000
57 cis-1,3-Dichloropropene	75	12.064	12.064	(1.089)	932041	500.000	480
58 4-Methyl-2-pentanone	43	12.123	12.123	(0.917)	1661761	2500.00	2400
59 Toluene	92	12.291	12.291	(0.930)	1736029	500.000	450
60 Ethylmethacrylate	69	12.399	12.399	(0.938)	4465576	5000.00	4500
61 trans-1,3-Dichloropropene	75	12.439	12.439	(0.941)	822449	500.000	470
62 1,1,2-Trichloroethane	97	12.567	12.567	(0.951)	411181	500.000	460
63 2-hexanone	43	12.655	12.655	(0.957)	1117392	2500.00	2400
64 1,3-Dichloropropane	76	12.685	12.685	(0.960)	641296	500.000	470
65 Tetrachloroethene	164	12.665	12.665	(0.958)	580221	500.000	500

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL5R71.d
Report Date: 24-Mar-2010 14:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66	Dibromochloromethane	129	12.843	12.843	(0.972)	593983	500.000	480
67	1,2-Dibromoethane	107	12.951	12.951	(0.980)	563022	500.000	480
68	1-Chlorohexane	55	13.128	13.128	(0.993)	1079720	500.000	470
69	Chlorobenzene	112	13.237	13.237	(1.001)	2248802	500.000	460
70	Ethylbenzene	106	13.247	13.247	(1.002)	1261384	500.000	440
71	1,1,1,2-Tetrachloroethane	131	13.276	13.276	(1.004)	630787	500.000	460
72	m,p-Xylene	106	13.316	13.316	(1.007)	3114871	1000.00	880
73	m,p-Xylene (part of total)	106	13.316	13.316	(1.007)	3114871	1000.00	880
74	o-Xylene	106	13.582	13.582	(1.028)	1465295	500.000	440
75	o-Xylene (part of total)	106	13.582	13.582	(1.028)	1465295	500.000	440
76	Styrene	104	13.591	13.591	(1.028)	2347354	500.000	470
77	Bromoform	173	13.779	13.779	(1.042)	362429	500.000	480
78	Isopropyl Benzene	105	13.789	13.789	(1.043)	4057549	500.000	440
79	1,1,2,2-Tetrachloroethane	83	13.986	13.986	(0.950)	383401	500.000	490
81	1,2,3-Trichloropropane	110	14.045	14.045	(1.063)	155430	500.000	460
80	trans-1,4-dichloro-2-butene	53	14.015	14.015	(1.060)	722622	2000.00	1900
82	n-Propyl Benzene	91	14.045	14.045	(0.954)	4082906	500.000	460
83	Bromobenzene	156	14.074	14.074	(1.065)	624569	500.000	460
84	1,3,5-Trimethyl Benzene	105	14.133	14.133	(0.960)	3378017	500.000	480
85	2-Chlorotoluene	126	14.163	14.163	(0.963)	746088	500.000	480
86	4-Chlorotoluene	126	14.232	14.232	(0.967)	750609	500.000	470
87	tert-Butyl Benzene	119	14.360	14.360	(0.976)	2737587	500.000	470
88	1,2,4-Trimethyl Benzene	105	14.399	14.399	(0.979)	3298185	500.000	480
89	Pentachloroethane	167	14.449	14.449	(0.982)	506608	500.000	500
90	sec-Butyl Benzene	105	14.508	14.508	(0.986)	4260013	500.000	450
91	p-Isopropyl Toluene	119	14.577	14.577	(0.991)	3122610	500.000	460
92	1,3-Dichlorobenzene	146	14.675	14.675	(0.997)	1136937	500.000	450
93	1,4-Dichlorobenzene	146	14.734	14.734	(1.001)	1153911	500.000	470
94	n-Butyl Benzene	91	14.862	14.862	(1.010)	2783780	500.000	460
95	1,2-Dichlorobenzene	146	15.030	15.030	(1.021)	931899	500.000	470
96	1,2-Dibromo-3-Chloropropane	75	15.621	15.621	(1.062)	68525	500.000	500
97	1,2,4-Trichlorobenzene	180	16.370	16.370	(1.112)	994413	500.000	510
98	Hexachlorobutadiene	225	16.439	16.439	(1.117)	463353	500.000	480
99	Naphthalene	128	16.665	16.665	(1.133)	991035	500.000	500
100	1,2,3-Trichlorobenzene	180	16.931	16.931	(1.151)	769451	500.000	480
M 101	1,2-Dichloroethene (total)	96				1661600	1000.00	950
M 102	Xylene (total)	106				4580166	500.000	1400

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL671.d
Date : 23-MAR-2010 16:53
Client ID: VSTD040
Instrument: 5972hp71.i
Sample Info: 0C23006-CAL6:JAO
Purge Volume: 5.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL671.d
Report Date: 24-Mar-2010 14:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100323A71.b/0C23006-CAL671.d
Lab Smp Id: 0C23006-CAL6 Client Smp ID: VSTD040
Inj Date : 23-MAR-2010 16:53
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0C23006-CAL6:JAO
Misc Info : VSTD040
Comment :
Method : /chem/5972hp71.i/DF100323A71.b/W8260-B-25MLv14.m
Meth Date : 24-Mar-2010 14:29 walker Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 7 Calibration Sample, Level: 6
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	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	11.076	11.076	(1.000)	789488	125.000	
*	2 Chlorobenzene-d5	117	13.214	13.214	(1.000)	567493	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.721	14.721	(1.000)	197182	125.000	
$	4 Dibromofluoromethane	113	10.475	10.475	(0.946)	1898198	1000.00	890
$	5 1,2-Dichloroethane-d4	65	10.810	10.810	(0.976)	1411932	1000.00	910
$	6 Toluene-d8	98	12.248	12.248	(0.927)	5172736	1000.00	840
$	7 Bromofluorobenzene	95	13.943	13.943	(0.947)	2008189	1000.00	890
	8 Dichlorodifluoromethane	85	4.140	4.140	(0.374)	2176382	1000.00	770
	9 Chloromethane	50	4.632	4.632	(0.418)	2239104	1000.00	980
	10 Vinyl Chloride	62	4.918	4.918	(0.444)	1465977	1000.00	860
	11 Bromomethane	94	5.785	5.785	(0.522)	1093358	1000.00	1000
	12 Chloroethane	64	6.031	6.031	(0.545)	956365	1000.00	980
	13 Trichlorofluoromethane	101	6.583	6.583	(0.594)	3479757	1000.00	860
	14 Acrolein	56	7.440	7.440	(0.672)	529229	10000.0	9500
	15 1,1,1-trichloro-2,2,2-trifluo	117	7.509	7.509	(0.678)	785006	1000.00	1000

3/24/10

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL671.d
Report Date: 24-Mar-2010 14:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	85	7.558	7.558	(0.682)	816814	1000.00	1000 (A)
17 1,1-Dichloroethene	96	7.608	7.608	(0.687)	1406896	1000.00	910
18 Acetone	43	7.686	7.686	(0.694)	886344	5000.00	4500
19 Iodomethane	142	7.893	7.893	(0.713)	1075749	1000.00	900
20 Carbon disulfide	76	8.012	8.012	(0.723)	4713642	1000.00	950
22 3-Chloropropene	39	8.209	8.209	(0.741)	1634968	1000.00	880
23 Acetonitrile	41	8.219	8.219	(0.742)	2348270	1000.00	910
24 Methyl acetate	43	8.199	8.199	(0.740)	510215	1000.00	920
25 Methylene Chloride	84	8.435	8.435	(0.762)	1182577	1000.00	910
26 Acrylonitrile	53	8.800	8.800	(0.795)	2243059	10000.0	9400
28 trans-1,2-Dichloroethene	96	8.800	8.800	(0.795)	1582926	1000.00	900
27 Methyl-tert-butyl ether	73	8.751	8.751	(0.790)	2139197	1000.00	910
30 Isopropyl ether	45	9.342	9.342	(0.843)	5194878	1000.00	940
31 Vinyl acetate	43	9.351	9.351	(0.844)	5899694	2000.00	1900
32 1,1-Dichloroethane	63	9.381	9.381	(0.847)	2979623	1000.00	910
33 Chloroprene	53	9.460	9.460	(0.854)	3422157	1000.00	980
34 2-butanone	43	9.992	9.992	(0.902)	1297228	5000.00	4700
35 2,2-Dichloropropane	77	10.012	10.012	(0.904)	2541084	1000.00	900
36 cis-1,2-Dichloroethene	96	10.031	10.031	(0.906)	1589485	1000.00	890
37 Propionitrile	54	10.100	10.100	(0.912)	3808657	50000.0	47000
38 Methacrylonitrile	41	10.238	10.238	(0.924)	4266120	10000.0	8900
39 Bromochloromethane	128	10.278	10.278	(0.928)	463942	1000.00	990
40 Chloroform	83	10.327	10.327	(0.932)	2734070	1000.00	920
42 1,1,1-Trichloroethane	97	10.514	10.514	(0.949)	3226261	1000.00	910
43 Cyclohexane	84	10.544	10.544	(0.952)	1630930	1000.00	1000
44 1,1-dichloropropene	75	10.652	10.652	(0.962)	1935436	1000.00	860
45 Isobutyl alcohol	43	10.672	10.672	(0.964)	980307	50000.0	45000
46 Carbon Tetrachloride	117	10.652	10.652	(0.962)	2812997	1000.00	1000 (A)
47 Benzene	78	10.839	10.839	(0.979)	4506906	1000.00	900
48 1,2-Dichloroethane	62	10.879	10.879	(0.982)	1897406	1000.00	930
49 Trichloroethene	130	11.371	11.371	(1.027)	1333584	1000.00	880
50 Methylcyclohexane	83	11.509	11.509	(1.039)	1842204	1000.00	1000
51 1,2-Dichloropropane	63	11.568	11.568	(1.044)	1152989	1000.00	830
52 Methylmethacrylate	69	11.558	11.558	(1.044)	3559682	10000.0	8100
53 1,4-dioxane	88	11.627	11.627	(1.050)	202896	50000.0	47000
54 Dibromomethane	174	11.677	11.677	(1.054)	637809	1000.00	910
55 Bromodichloromethane	83	11.755	11.755	(1.061)	1866179	1000.00	900
56 2-chloroethyl vinyl ether	63	11.923	11.923	(1.076)	327638	2000.00	2000 (A)
57 cis-1,3-Dichloropropene	75	12.071	12.071	(1.090)	1780191	1000.00	910
58 4-Methyl-2-pentanone	43	12.120	12.120	(0.917)	3113098	5000.00	4600
59 Toluene	92	12.287	12.287	(0.930)	3374589	1000.00	900
60 Ethylmethacrylate	69	12.406	12.406	(0.939)	7710209	10000.0	8100
61 trans-1,3-Dichloropropene	75	12.435	12.435	(0.941)	1597016	1000.00	940
62 1,1,2-Trichloroethane	97	12.573	12.573	(0.952)	809534	1000.00	940
63 2-hexanone	43	12.662	12.662	(0.958)	2012182	5000.00	4400
64 1,3-Dichloropropane	76	12.691	12.691	(0.960)	1202630	1000.00	910
65 Tetrachloroethene	164	12.662	12.662	(0.958)	1154962	1000.00	1000 (A)

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-CAL671.d
Report Date: 24-Mar-2010 14:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66	Dibromochloromethane	129	12.849	12.849	(0.972)	1143168	1000.00	950
67	1,2-Dibromoethane	107	12.948	12.948	(0.980)	1069801	1000.00	930
68	1-Chlorohexane	55	13.135	13.135	(0.994)	2152156	1000.00	950
69	Chlorobenzene	112	13.233	13.233	(1.001)	4192482	1000.00	880
70	Ethylbenzene	106	13.253	13.253	(1.003)	2364039	1000.00	860
71	1,1,1,2-Tetrachloroethane	131	13.273	13.273	(1.004)	1206832	1000.00	910
72	m,p-Xylene	106	13.312	13.312	(1.007)	5856971	2000.00	1700
73	m,p-Xylene (part of total)	106	13.312	13.312	(1.007)	5856971	2000.00	1700
74	o-Xylene	106	13.578	13.578	(1.028)	2749400	1000.00	860
75	o-Xylene (part of total)	106	13.578	13.578	(1.028)	2749400	1000.00	860
76	Styrene	104	13.588	13.588	(1.028)	4333497	1000.00	890
77	Bromoform	173	13.775	13.775	(1.042)	679949	1000.00	930
78	Isopropyl Benzene	105	13.785	13.785	(1.043)	7827906	1000.00	880
79	1,1,2,2-Tetrachloroethane	83	13.992	13.992	(0.950)	721924	1000.00	930
81	1,2,3-Trichloropropane	110	14.051	14.051	(1.063)	286807	1000.00	890
80	trans-1,4-dichloro-2-butene	53	14.012	14.012	(1.060)	1375429	4000.00	3700
82	n-Propyl Benzene	91	14.041	14.041	(0.954)	7909481	1000.00	900
83	Bromobenzene	156	14.081	14.081	(1.066)	1192561	1000.00	900
84	1,3,5-Trimethyl Benzene	105	14.130	14.130	(0.960)	6530734	1000.00	930
85	2-Chlorotoluene	126	14.169	14.169	(0.963)	1408072	1000.00	910
86	4-Chlorotoluene	126	14.228	14.228	(0.967)	1441985	1000.00	920
87	tert-Butyl Benzene	119	14.366	14.366	(0.976)	5344051	1000.00	920
88	1,2,4-Trimethyl Benzene	105	14.396	14.396	(0.978)	6435262	1000.00	940
89	Pentachloroethane	167	14.455	14.455	(0.982)	994634	1000.00	990
90	sec-Butyl Benzene	105	14.504	14.504	(0.985)	8568828	1000.00	920
91	p-Isopropyl Toluene	119	14.573	14.573	(0.990)	6154804	1000.00	920
92	1,3-Dichlorobenzene	146	14.682	14.682	(0.997)	2225330	1000.00	900
93	1,4-Dichlorobenzene	146	14.741	14.741	(1.001)	2142565	1000.00	900
94	n-Butyl Benzene	91	14.869	14.869	(1.010)	5546449	1000.00	920
95	1,2-Dichlorobenzene	146	15.026	15.026	(1.021)	1764196	1000.00	910
96	1,2-Dibromo-3-Chloropropane	75	15.627	15.627	(1.062)	132906	1000.00	990
97	1,2,4-Trichlorobenzene	180	16.376	16.376	(1.112)	1916548	1000.00	990
98	Hexachlorobutadiene	225	16.445	16.445	(1.117)	981932	1000.00	1000(A)
99	Naphthalene	128	16.672	16.672	(1.133)	1802376	1000.00	920
100	1,2,3-Trichlorobenzene	180	16.938	16.938	(1.151)	1491903	1000.00	940
M 101	1,2-Dichloroethene (total)	96				3172411	2000.00	1800
M 102	Xylene (total)	106				8606371	1000.00	2700

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

COMPUCHEM a Division of Liberty Analytical Corp DATE 3/23/10 INITIAL TIME OF TUNE 1354 SHIFT/S(A) ✓ (B)____ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0154

COMPUCHEM LOGBOOK 11 WWW 29 (5972hp71) METHOD: 624 8260B OLC03.2 OLM04.3 SOM01.2 (Circle one) or Other: 25mL

MAINTENANCE source changed

		FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ VOL	DF	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		0C23006-TUN1		—	—	3/23/10	1354	BFB	—	2uL	—	JAO	LCD=SCD
2		-CAL2		—	—	/ /	1426	VSTD001	—	25mL	—		
3		-CAL1		—	—	/ /	1454	VSTD0.5	—		—		
4		-CAL3		—	—	/ /	1529	VSTD005	—		—		
5		-CAL4		—	—	/ /	1558	VSTD010	—		—		
6		-CAL5	US	—	—	/ /	1626	VSTD020	—		—		
7		-CAL6		—	—	/ /	1653	VSTD040	—		—		
8		-CAL5R		—	—	/ /	1721	VSTD020	—		—		
9		0032320-BLK1	CS	—	—	/ /	1804	VBLKHX	VARIOUS		—		
10		-BLK1R		—	—	/ /	1832	VBLKHX			—		
11		-BS1		—	—	/ /	2002	VHXLCS			—		
12		-BS1R		—	—	/ /	2038	VHXLCS			—		DC521
13		-BSD1		—	—	/ /	2106	VHXLCSD			—		
14		1003131-20D3		1	C	/ /	2134	NBS01-B-20W	1003131	70ul	357.14	B	
15		1003102-22		1	A	/ /	2202	EB01-031310-SS	1003102	25mL	—		
16		14		1		/ /	2229	IR69-GW04					
17		15	DI	1		/ /	2257	GW11IW					
18		16	CS DI	1		/ /	2325	GW11DW					
19		17		1		/ /	2352	GW05DW					
20		18		1		3/24/10	0020	GW05IW					
21		19		1		/ /	0048	EB01-031410-SD					
22		20		1		/ /	0116	IR69-GW15BCH					
23		21		1		/ /	0144	EB01-031310-GW					
24						/ /							B 3-24-10

*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.: 67202 Calibration Group Code / Lot No.: DC522

Internal Standard Lot No.: 67253 IS/Surrogate Lot No.: 67254

REVIEWED BY: B Date 3-24-10 4305

09/10/09: jr

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.: 1003173

Instrument ID: 5972HP71 Calibration Date: 03/31/10 Time: 1319

Lab File ID: 0C31006-CCV171 Init. Calib. Date(s): 03/23/10 03/23/10

Init. Calib. Times: 1426 1721

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

COMPOUND	RRF or AMOUNT	RRF5 or AMOUNT	CCAL RRF5	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.4462000	0.3286119	0.3286119	0.001	-26.35	90.00	AVRG
Chloromethane	0.3610100	0.3702922	0.3702922	0.1	2.57	90.00	AVRG
Vinyl Chloride	0.2711700	0.3249525	0.3249525	0.001	19.83	20.00	AVRG
Bromomethane	74.812635	125.00000	0.0765902	0.001	-40.15	90.00	LINR
Chloroethane	137.30089	125.00000	0.1770100	0.001	9.84	90.00	LINR
Trichlorofluoromethane	131.43971	125.00000	0.6651260	0.001	5.15	90.00	LINR
Acrolein	0.0088300	0.0111843	0.0111843	0.001	26.66	90.00	AVRG
1,1-Dichloroethene	0.2447800	0.2621088	0.2621088	0.001	7.08	20.00	AVRG
Iodomethane	0.1894700	0.1770582	0.1770582	0.001	-6.55	90.00	AVRG
Carbon disulfide	0.7878900	0.7846669	0.7846669	0.001	-0.41	90.00	AVRG
Acetone	0.0308900	0.0294099	0.0294099	0.001	-4.79	90.00	AVRG
3-Chloropropene	0.2932800	0.3544609	0.3544609	0.001	20.86	90.00	AVRG
Acetonitrile	0.4105400	0.5068771	0.5068771	0.001	23.46	90.00	AVRG
Methylene Chloride	0.2048600	0.2154197	0.2154197	0.001	5.15	90.00	AVRG
trans-1,2-Dichloroethene	0.2792700	0.2989149	0.2989149	0.001	7.03	90.00	AVRG
Acrylonitrile	0.0379300	0.0407008	0.0407008	0.001	7.30	90.00	AVRG
1,1-Dichloroethane	0.5160000	0.4828934	0.4828934	0.1	-6.42	90.00	AVRG
Vinyl acetate	0.4943400	0.4731789	0.4731789	0.001	-4.28	90.00	AVRG
2,2-Dichloropropane	0.4459000	0.4026130	0.4026130	0.001	-9.71	90.00	AVRG
cis-1,2-Dichloroethene	0.2838400	0.3012807	0.3012807	0.001	6.14	90.00	AVRG
2-butanone	0.0438200	0.0484462	0.0484462	0.001	10.56	90.00	AVRG
Propionitrile	0.0129000	0.0135202	0.0135202	0.001	4.81	90.00	AVRG
Bromochloromethane	118.41056	125.00000	0.0772466	0.001	-5.27	90.00	LINR
Methacrylonitrile	0.0756700	0.0858385	0.0858385	0.001	13.44	90.00	AVRG
Chloroform	0.4721600	0.4643749	0.4643749	0.001	-1.65	20.00	AVRG
1,1,1-Trichloroethane	0.5637100	0.5206274	0.5206274	0.001	-7.64	90.00	AVRG
Carbon Tetrachloride	111.05456	125.00000	0.4118088	0.001	-11.16	90.00	LINR
1,1-dichloropropene	0.3568600	0.3372129	0.3372129	0.001	-5.50	90.00	AVRG
Benzene	0.7913200	0.8068141	0.8068141	0.001	1.96	90.00	AVRG
1,2-Dichloroethane	0.3241500	0.2836342	0.2836342	0.001	-12.50	90.00	AVRG
Isobutyl alcohol	0.0034100	0.0033450	0.0033450	0.001	-1.91	90.00	AVRG
Trichloroethene	0.2407200	0.2326369	0.2326369	0.001	-3.36	90.00	AVRG
1,2-Dichloropropane	0.2186300	0.2246443	0.2246443	0.001	2.75	20.00	AVRG
Dibromomethane	0.1104000	0.1167747	0.1167747	0.001	5.77	90.00	AVRG
Methylmethacrylate	0.0695700	0.0720947	0.0720947	0.001	3.63	90.00	AVRG
Bromodichloromethane	0.3278600	0.3098104	0.3098104	0.001	-5.50	90.00	AVRG
cis-1,3-Dichloropropene	0.3112300	0.2989765	0.2989765	0.001	-3.94	90.00	AVRG
4-Methyl-2-pentanone	0.1481500	0.1540238	0.1540238	0.001	3.96	90.00	AVRG
Toluene	0.8224000	0.8026812	0.8026812	0.001	-2.40	20.00	AVRG
trans-1,3-Dichloropropene	0.3739400	0.3172887	0.3172887	0.001	-15.15	90.00	AVRG
1,1,2-Trichloroethane	0.1905200	0.1844117	0.1844117	0.001	-3.21	90.00	AVRG
Ethylmethacrylate	0.2094400	0.1985371	0.1985371	0.001	-5.20	90.00	AVRG

FORM VII VOA

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Instrument ID: 5972HP71 Calibration Date: 03/31/10 Time: 1319

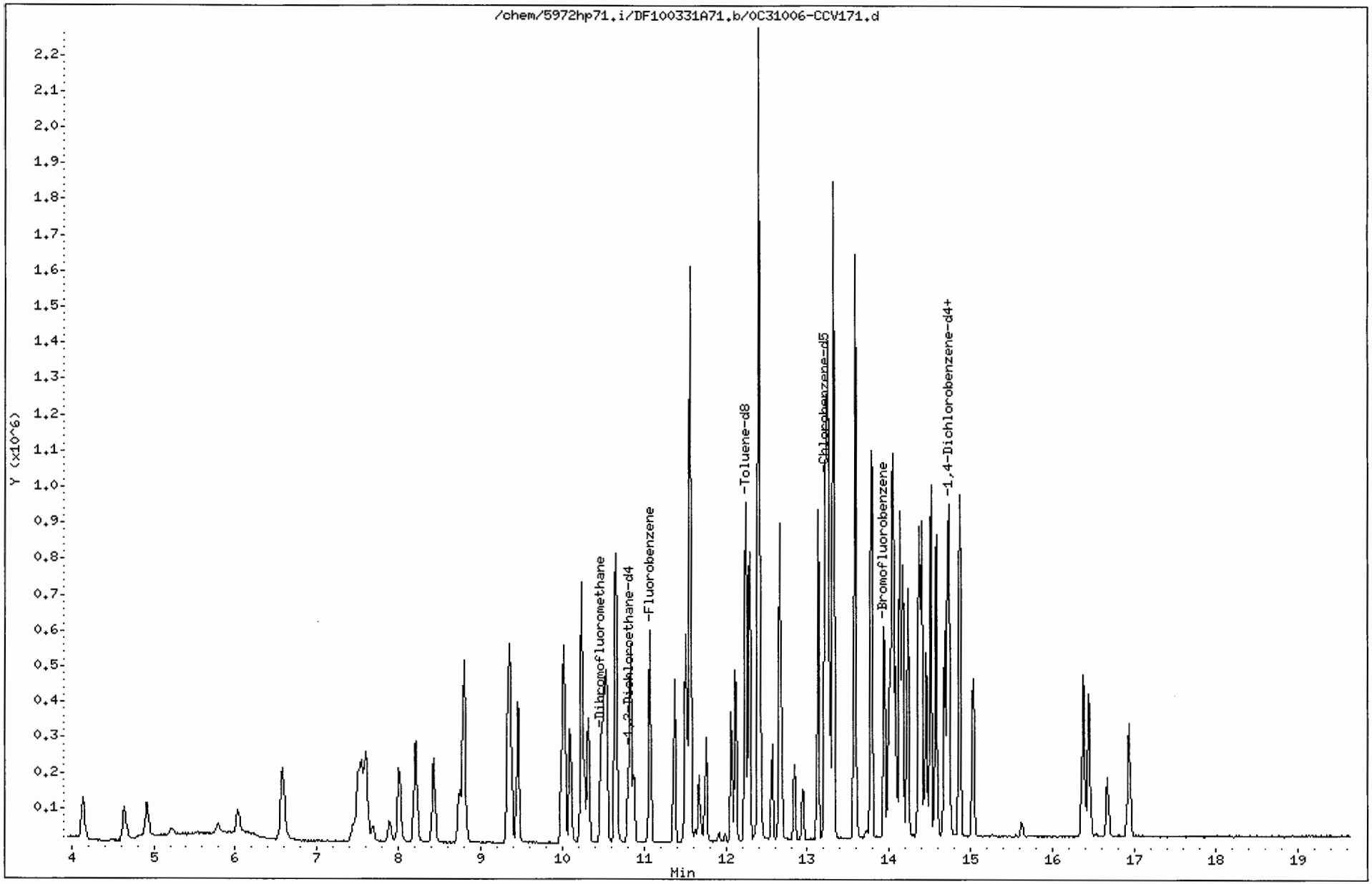
Lab File ID: 0C31006-CCV171 Init. Calib. Date(s): 03/23/10 03/23/10

Init. Calib. Times: 1426 1721

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

COMPOUND	RRF or AMOUNT	RRF5 or AMOUNT	CCAL RRF5	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloroethene	128.21866	125.00000	0.2780216	0.001	2.57	90.00	LINR
1,3-Dichloropropane	0.2900800	0.2674851	0.2674851	0.001	-7.79	90.00	AVRG
2-hexanone	0.0999400	0.1071220	0.1071220	0.001	7.19	90.00	AVRG
Dibromochloromethane	0.2662800	0.2166961	0.2166961	0.001	-18.62	90.00	AVRG
Chlorobenzene	1.0447700	0.9513135	0.9513135	0.3	-8.94	90.00	AVRG
1,1,1,2-Tetrachloroethane	0.2913000	0.2452903	0.2452903	0.001	-15.79	90.00	AVRG
Ethylbenzene	0.6045200	0.5474729	0.5474729	0.001	-9.44	20.00	AVRG
m,p-Xylene	0.7523800	0.6884922	0.6884922	0.001	-8.49	90.00	AVRG
o-Xylene	0.7024400	0.6568358	0.6568358	0.001	-6.49	90.00	AVRG
Styrene	1.0730100	0.9689057	0.9689057	0.001	-9.70	90.00	AVRG
Bromoform	0.1616600	0.1413227	0.1413227	0.1	-12.58	90.00	AVRG
1,2,3-Trichloropropane	0.0713200	0.0603871	0.0603871	0.001	-15.33	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4925800	0.4211018	0.4211018	0.3	-14.51	90.00	AVRG
trans-1,4-dichloro-2-butene	0.0829300	0.0760678	0.0760678	0.001	-8.27	90.00	AVRG
1,3-Dichlorobenzene	1.5683400	1.2457652	1.2457652	0.001	-20.57	90.00	AVRG
1,4-Dichlorobenzene	1.5159000	1.2179688	1.2179688	0.001	-19.65	90.00	AVRG
1,2-Dichlorobenzene	1.2324200	0.9829605	0.9829605	0.001	-20.24	90.00	AVRG
1,2,4-Trichlorobenzene	113.09146	125.00000	1.1291263	0.001	-9.53	90.00	LINR
Hexachlorobutadiene	0.6144800	0.5503840	0.5503840	0.001	-10.43	90.00	AVRG
Naphthalene	1.2377200	0.9395326	0.9395326	0.001	-24.09	90.00	AVRG
Xylene (total)	0.7024400	0.6568358	0.6568358	0.001	-6.49	90.00	AVRG
Chloroprene	0.5517700	0.5849072	0.5849072	0.001	6.00	90.00	AVRG
Dibromofluoromethane	0.3374700	0.3140704	0.3140704	0.001	-6.93	90.00	AVRG
1,2-Dichloroethane-d4	108.02686	125.00000	0.2181378	0.001	-13.58	90.00	LINR
Toluene-d8	1.3529200	1.2518686	1.2518686	0.001	-7.47	90.00	AVRG
Bromofluorobenzene	1.4270100	1.2412076	1.2412076	0.001	-13.02	90.00	AVRG

Data File: /chem/5972hp71.i/DF100331A71.b/0C31006-CCV171.d
Date : 31-MAR-2010 13:19
Client ID: VSTD005
Instrument: 5972hp71.i
Sample Info: 0C31006-CCV1:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/0C31006-CCV171.d
Report Date: 07-Apr-2010 16:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/0C31006-CCV171.d
Lab Smp Id: 0C31006-CCV1 Client Smp ID: VSTD005
Inj Date : 31-MAR-2010 13:19
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0C31006-CCV1:JAO
Misc Info : VSTD005
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 2 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	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)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	11.069	11.069	(1.000)	519479	125.000	
* 2 Chlorobenzene-d5	117	13.216	13.216	(1.000)	425190	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.714	14.714	(1.000)	179700	125.000	
$ 4 Dibromofluoromethane	113	10.478	10.478	(0.947)	163153	125.000	120
$ 5 1,2-Dichloroethane-d4	65	10.812	10.812	(0.977)	113318	125.000	110
$ 6 Toluene-d8	98	12.241	12.241	(0.926)	532282	125.000	120
$ 7 Bromofluorobenzene	95	13.936	13.936	(0.947)	223045	125.000	110
8 Dichlorodifluoromethane	85	4.143	4.143	(0.374)	170707	125.000	92
9 Chloromethane	50	4.635	4.635	(0.419)	192359	125.000	130
10 Vinyl Chloride	62	4.921	4.921	(0.445)	168806	125.000	150
11 Bromomethane	94	5.788	5.788	(0.523)	39787	125.000	75
12 Chloroethane	64	6.034	6.034	(0.545)	91953	125.000	140
13 Trichlorofluoromethane	101	6.576	6.576	(0.594)	345519	125.000	130
14 Acrolein	56	7.443	7.443	(0.672)	58100	1250.00	1600
15 1,1,1-trichloro-2,2,2-trifluo	117	7.502	7.502	(0.678)	73243	125.000	130
16 1,1,2-trichloro-1,2,2-trifluo	85	7.542	7.542	(0.681)	73705	125.000	130

Data File: /chem/5972hp71.i/DF100331A71.b/0C31006-CCV171.d
Report Date: 07-Apr-2010 16:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	7.601	7.601	(0.687)	136160	125.000	130
18 Acetone	43	7.689	7.689	(0.695)	76389	625.000	600
19 Iodomethane	142	7.886	7.886	(0.712)	91978	125.000	120
20 Carbon disulfide	76	8.005	8.005	(0.723)	407618	125.000	120
22 3-Chloropropene	39	8.212	8.212	(0.742)	184135	125.000	150
23 Acetonitrile	41	8.212	8.212	(0.742)	263312	125.000	150
24 Methyl acetate	43	8.192	8.192	(0.740)	52911	125.000	140
25 Methylene Chloride	84	8.428	8.428	(0.761)	111906	125.000	130
26 Acrylonitrile	53	8.803	8.803	(0.795)	211432	1250.00	1300
28 trans-1,2-Dichloroethene	96	8.793	8.793	(0.794)	155280	125.000	130
27 Methyl-tert-butyl ether	73	8.744	8.744	(0.790)	171424	125.000	110
30 Isopropyl ether	45	9.335	9.335	(0.843)	478702	125.000	130
31 Vinyl acetate	43	9.354	9.354	(0.845)	491613	250.000	240
32 1,1-Dichloroethane	63	9.374	9.374	(0.847)	250853	125.000	120
33 Chloroprene	53	9.453	9.453	(0.854)	303847	125.000	130
34 2-butanone	43	9.985	9.985	(0.902)	125834	625.000	690
35 2,2-Dichloropropane	77	10.005	10.005	(0.904)	209149	125.000	110
36 cis-1,2-Dichloroethene	96	10.024	10.024	(0.906)	156509	125.000	130
37 Propionitrile	54	10.093	10.093	(0.912)	351174	6250.00	6500
38 Methacrylonitrile	41	10.231	10.231	(0.924)	445913	1250.00	1400
39 Bromochloromethane	128	10.271	10.271	(0.928)	40128	125.000	120
40 Chloroform	83	10.320	10.320	(0.932)	241233	125.000	120
42 1,1,1-Trichloroethane	97	10.507	10.507	(0.949)	270455	125.000	120
43 Cyclohexane	84	10.537	10.537	(0.952)	154958	125.000	130
44 1,1-dichloropropene	75	10.655	10.655	(0.963)	175175	125.000	120
45 Isobutyl alcohol	43	10.675	10.675	(0.964)	86882	6250.00	6100
46 Carbon Tetrachloride	117	10.655	10.655	(0.963)	213926	125.000	110
47 Benzene	78	10.842	10.842	(0.980)	419123	125.000	130
48 1,2-Dichloroethane	62	10.881	10.881	(0.983)	147342	125.000	110
49 Trichloroethene	130	11.374	11.374	(1.028)	120850	125.000	120
50 Methylcyclohexane	83	11.512	11.512	(1.040)	186495	125.000	140
51 1,2-Dichloropropane	63	11.561	11.561	(1.044)	116698	125.000	130
52 Methylmethacrylate	69	11.551	11.551	(1.044)	374517	1250.00	1300
53 1,4-dioxane	88	11.620	11.620	(1.050)	18137	6250.00	6400
54 Dibromomethane	174	11.670	11.670	(1.054)	60662	125.000	130
55 Bromodichloromethane	83	11.758	11.758	(1.062)	160940	125.000	120
56 2-chloroethyl vinyl ether	63	11.916	11.916	(1.077)	8065	250.000	120 (M)
57 cis-1,3-Dichloropropene	75	12.064	12.064	(1.090)	155312	125.000	120
58 4-Methyl-2-pentanone	43	12.113	12.113	(0.917)	327447	625.000	650
59 Toluene	92	12.290	12.290	(0.930)	341292	125.000	120
60 Ethylmethacrylate	69	12.399	12.399	(0.938)	844160	1250.00	1200
61 trans-1,3-Dichloropropene	75	12.428	12.428	(0.940)	134908	125.000	110
62 1,1,2-Trichloroethane	97	12.566	12.566	(0.951)	78410	125.000	120
63 2-hexanone	43	12.655	12.655	(0.957)	227736	625.000	670
64 1,3-Dichloropropane	76	12.684	12.684	(0.960)	113732	125.000	120
65 Tetrachloroethene	164	12.665	12.665	(0.958)	118212	125.000	130
66 Dibromochloromethane	129	12.842	12.842	(0.972)	92137	125.000	100

MK 4-7-10

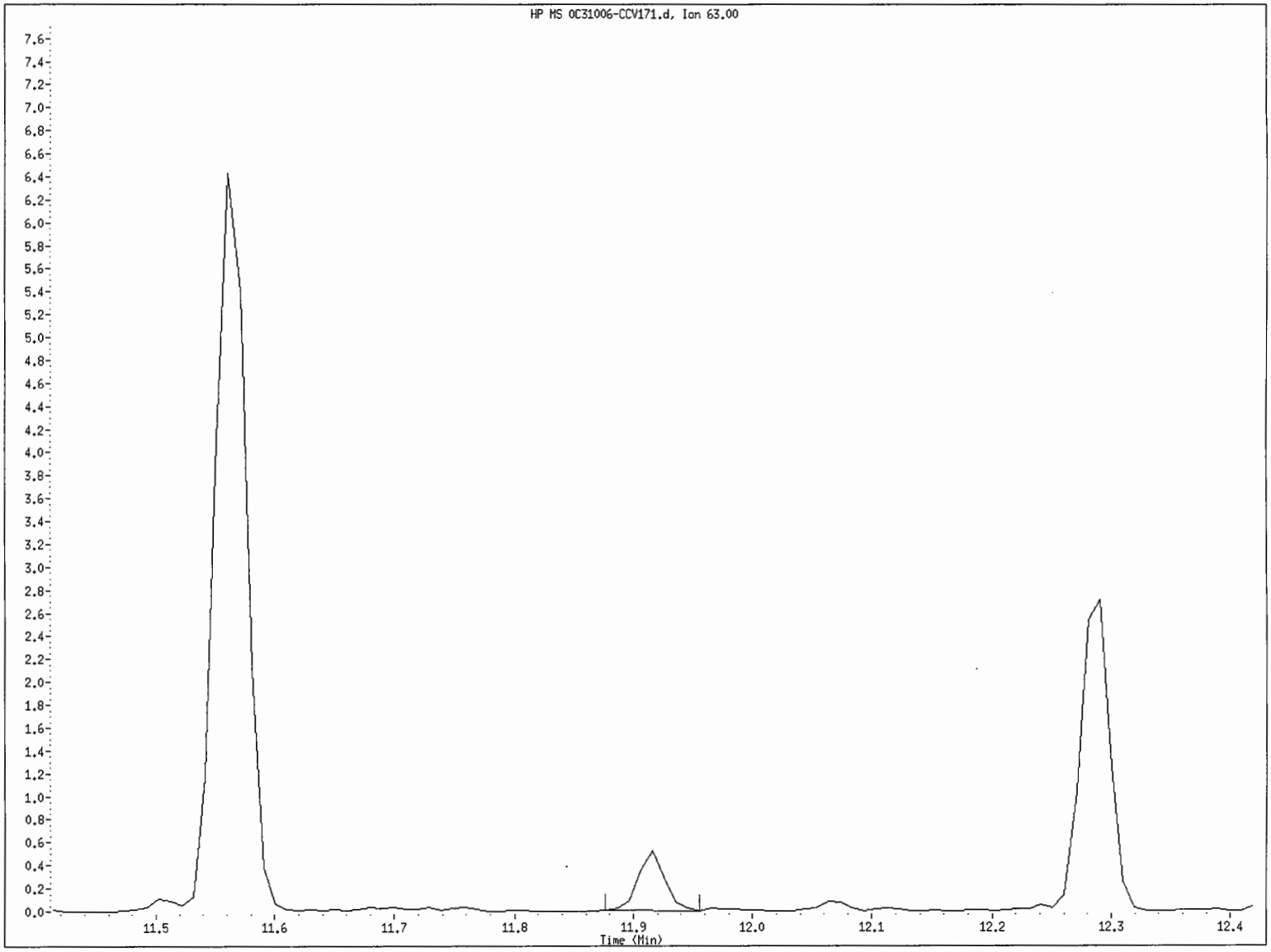
Data File: /chem/5972hp71.i/DF100331A71.b/0C31006-CCV171.d
Report Date: 07-Apr-2010 16:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67	1,2-Dibromoethane	107	12.941	12.941	(0.979)	94819	125.000	110
68	1-Chlorohexane	55	13.128	13.128	(0.993)	211347	125.000	120
69	Chlorobenzene	112	13.236	13.236	(1.001)	404489	125.000	110
70	Ethylbenzene	106	13.246	13.246	(1.002)	232780	125.000	110
71	1,1,1,2-Tetrachloroethane	131	13.266	13.266	(1.004)	104295	125.000	110
72	m,p-Xylene	106	13.315	13.315	(1.007)	585480	250.000	230
73	m,p-Xylene (part of total)	106	13.315	13.315	(1.007)	585480	250.000	230
74	o-Xylene	106	13.581	13.581	(1.028)	279280	125.000	120
75	o-Xylene (part of total)	106	13.581	13.581	(1.028)	279280	125.000	120
76	Styrene	104	13.581	13.581	(1.028)	411969	125.000	110
77	Bromoform	173	13.778	13.778	(1.042)	60089	125.000	110
78	Isopropyl Benzene	105	13.788	13.788	(1.043)	747614	125.000	110
79	1,1,2,2-Tetrachloroethane	83	13.985	13.985	(0.950)	75672	125.000	110
81	1,2,3-Trichloropropane	110	14.044	14.044	(1.063)	25676	125.000	110
80	trans-1,4-dichloro-2-butene	53	14.005	14.005	(1.060)	129373	500.000	460
82	n-Propyl Benzene	91	14.044	14.044	(0.954)	809416	125.000	100
83	Bromobenzene	156	14.074	14.074	(1.065)	119008	125.000	120
84	1,3,5-Trimethyl Benzene	105	14.123	14.123	(0.960)	580444	125.000	91
85	2-Chlorotoluene	126	14.162	14.162	(0.963)	131057	125.000	93
86	4-Chlorotoluene	126	14.231	14.231	(0.967)	134196	125.000	94
87	tert-Butyl Benzene	119	14.359	14.359	(0.976)	464745	125.000	88
88	1,2,4-Trimethyl Benzene	105	14.399	14.399	(0.979)	576930	125.000	92
89	Pentachloroethane	167	14.448	14.448	(0.982)	98266	125.000	110
90	sec-Butyl Benzene	105	14.507	14.507	(0.986)	804823	125.000	95
91	p-Isopropyl Toluene	119	14.576	14.576	(0.991)	541640	125.000	89
92	1,3-Dichlorobenzene	146	14.675	14.675	(0.997)	223864	125.000	99
93	1,4-Dichlorobenzene	146	14.734	14.734	(1.001)	218869	125.000	100
94	n-Butyl Benzene	91	14.862	14.862	(1.010)	566822	125.000	100
95	1,2-Dichlorobenzene	146	15.029	15.029	(1.021)	176638	125.000	100
96	1,2-Dibromo-3-Chloropropane	75	15.620	15.620	(1.062)	11876	125.000	90
97	1,2,4-Trichlorobenzene	180	16.369	16.369	(1.112)	202904	125.000	110
98	Hexachlorobutadiene	225	16.438	16.438	(1.117)	98904	125.000	110
99	Naphthalene	128	16.665	16.665	(1.133)	168834	125.000	95
100	1,2,3-Trichlorobenzene	180	16.931	16.931	(1.151)	154640	125.000	110
M 101	1,2-Dichloroethene (total)	96				311789	250.000	270
M 102	Xylene (total)	106				864760	125.000	360

QC Flag Legend

M - Compound response manually integrated.

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 8065 Manually integrated



File name: /chem/5972hp71.i/DF100331A71.b/0C31006-CCV171.d
Client ID: VSTD005
Instrument ID: 5972hp71.i
Injection Date and Time: 31-MAR-2010 13:19
Retention Time: 11.92
Operator ID: JAO

COMPUCHEM a Division of Liberty Analytical Corp DATE 3/31/10 INITIAL TIME OF TUNE 1247 SHIFT/S(A) ✓ (B)____ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0047

COMPUCHEM LOGBOOK 11 WWW 29 (5972hp71) METHOD: 624 8260B OLC03.2 OLM04.3 SOM01.2 (Circle one) or Other: 25mL

MAINTENANCE returned

		FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ VOL	DF	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		0C31006-TUN1		—	—	3/31/10	1247	BFB	—	2mL	—	JAO	LCD=SCD
2		-CCV1		—	—	/ /	1319	VSTD005	—	25mL	—		
3		0033105-BLK1		—	—	/ /	1355	VBLKIK	VARIOUS		—		
4		-BS1	SP	—	—	/ /	1441	VIKLCS			—		
5		-BS1R		—	—	/ /	1538	VIKLCS	↓	↓	—		
6		1003173-01		1	A	/ /	1640	MW-3	1003173	25mL	—		1,1,1-TCEthane 8340ng
7		-02	DI	1	A	/ /	1710	MW-2			—		
8		-03		1	A	/ /	1738	MW-8			—		
9		-04		1	A	/ /	1805	MW-9			—		
10		-05	DI	1	A	/ /	1833	MW-12			—		cis-1,2DCEthene 1042
11		-06	CS	1	A	/ /	1901	MW-17			—		
12		-07		1	A	/ /	1928	TRIP BLANK			—		
13		0033105-MS1		1	B	/ /	2012	MW-3MS			—		
14		-MSD1		1	C	/ /	2039	MW-3MSD	↓		—		
15		1003173-02R JAO 3-31-10		1	B	/ /	2107	MW-17	1003173		—		
16		-05D		1	B	/ /	2137	MW-12		15mL	1.67		
17		-02D		1	B	/ /	2204	MW-2		1.5mL	~~1.67~~		MNR 4-7-10
18		1003206-01	DI	6	A	/ /	2232	FT TRAIN	1003206	50ul	500	B	Benzen 7100
19		0C31006-IBL1		—	—	/ /	2300	VIBLKAA	—	25mL	—		
20		1003206-01D		6	A	/ /	2328	FT TRAIN	1003206	2.5ul	10,000		
21						/ /							
22						/ /							
23						/ /							B 3-31-10
24						/ /							

*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.: 67202

Internal Standard Lot No.: —

Calibration Group Code / Lot No.: D523

IS/ Surrogate Lot No.: 67254

REVIEWED BY: B Date 3-31-10 4319

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

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-TUN171.d

Date : 23-MAR-2010 13:54

Client ID: BFB

Instrument: 5972hp71.i

Sample Info: 0C23006-TUN1:JAO

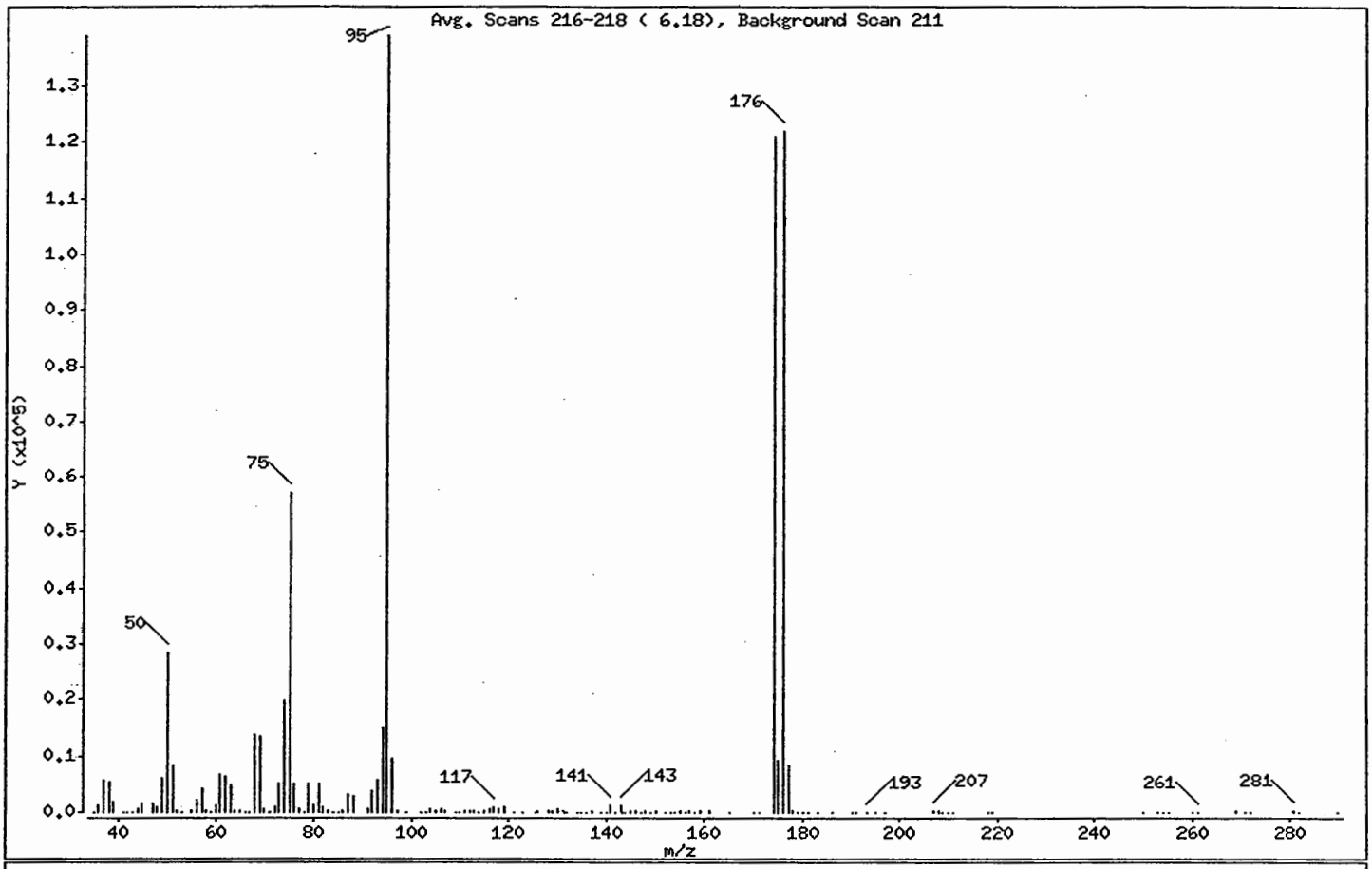
Volume Injected (uL): 2.0

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	20.46
75	30.00 - 60.00% of mass 95	41.25
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.12
175	5.00 - 9.00% of mass 174	6.72 (7.71)
176	95.00 - 101.00% of mass 174	87.79 (100.77)
177	5.00 - 9.00% of mass 176	5.94 (6.77)

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-TUN171.d

Date : 23-MAR-2010 13:54

Client ID: BFB Instrument: 5972hp71.i

Sample Info: 0C23006-TUN1:JAO

Volume Injected (uL): 2.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Data File: 0C23006-TUN171.d

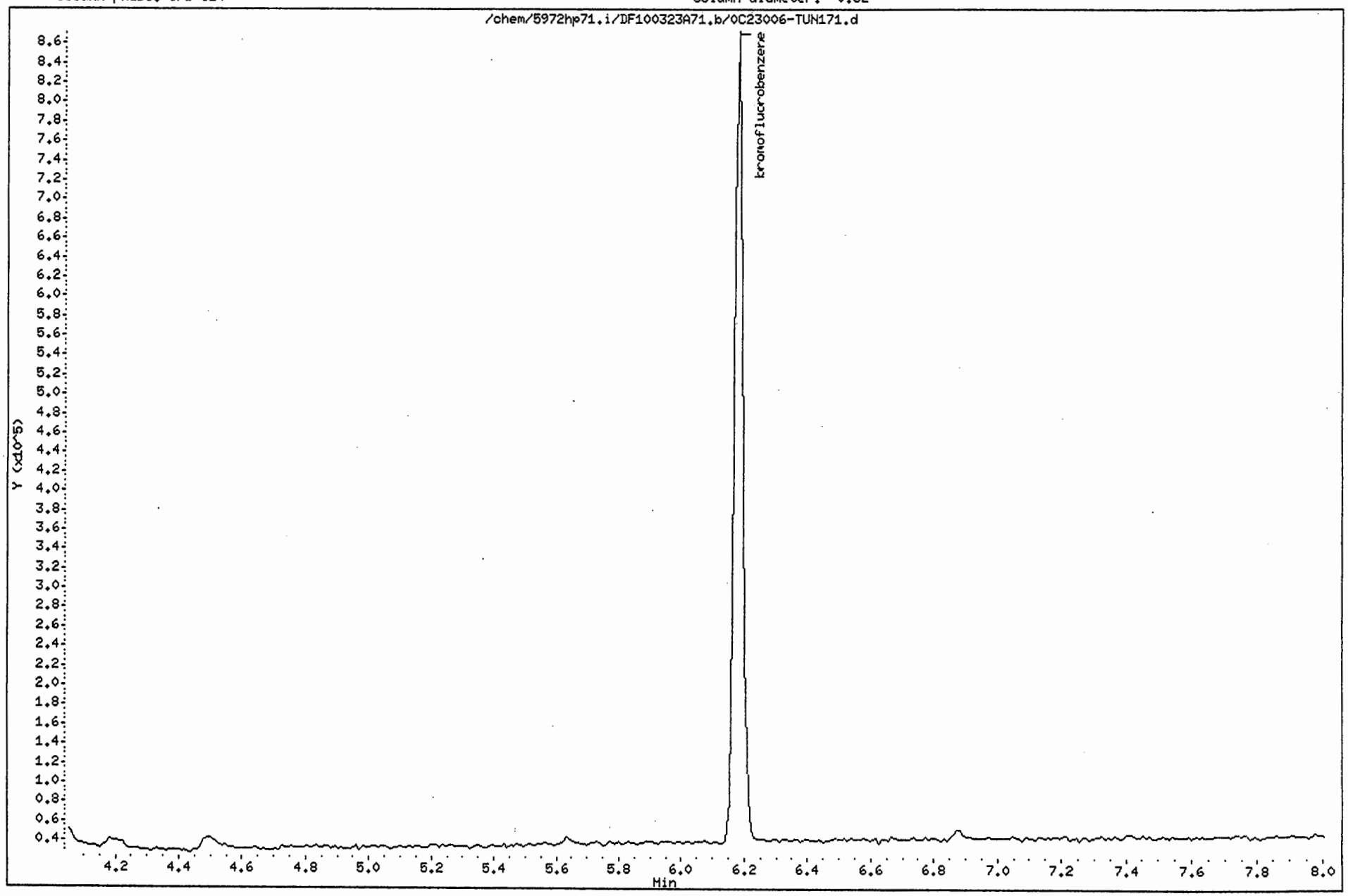
Spectrum: Avg. Scans 216-218 (6.18), Background Scan 211

Location of Maximum: 95.00

Number of points: 147

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	39	75.00	57320	118.00	765	170.00	39
36.00	1175	76.00	4985	119.00	856	171.00	49
37.00	5757	77.00	590	121.00	128	174.00	121064
38.00	5298	78.00	28	123.00	79	175.00	9338
39.00	2034	79.00	5107	125.00	15	176.00	121992
41.00	22	80.00	1279	126.00	209	177.00	8258
42.00	28	81.00	5051	128.00	450	178.00	219
43.00	99	82.00	838	129.00	250	179.00	23
44.00	750	83.00	166	130.00	484	180.00	60
45.00	1654	84.00	81	131.00	254	181.00	70
47.00	1477	85.00	89	132.00	117	183.00	43
48.00	1001	86.00	183	134.00	22	186.00	37
49.00	6092	87.00	3343	135.00	74	190.00	43
50.00	28432	88.00	2979	136.00	86	191.00	48
51.00	8441	91.00	712	137.00	323	193.00	98
52.00	359	92.00	3726	139.00	48	195.00	50
53.00	3	93.00	5866	140.00	85	197.00	46
55.00	444	94.00	15166	141.00	1285	207.00	365
56.00	2319	95.00	138944	142.00	51	208.00	238
57.00	4295	96.00	9529	143.00	1359	209.00	28
58.00	260	97.00	404	144.00	127	210.00	8
59.00	118	99.00	131	145.00	161	211.00	123
60.00	1324	102.00	145	146.00	296	218.00	68
61.00	6788	103.00	50	147.00	72	219.00	73
62.00	6390	104.00	644	148.00	373	250.00	37
63.00	4803	105.00	261	149.00	83	253.00	75
64.00	463	106.00	742	150.00	188	254.00	51
65.00	188	107.00	277	152.00	37	255.00	122
66.00	17	109.00	105	153.00	135	260.00	39
67.00	70	110.00	146	154.00	88	261.00	135
68.00	13605	111.00	254	155.00	360	269.00	184
69.00	13340	112.00	169	156.00	99	271.00	18
70.00	686	113.00	208	157.00	263	272.00	35
71.00	43	114.00	47	158.00	38	281.00	476
72.00	828	115.00	401	159.00	194	282.00	57

Data File: /chem/5972hp71.i/DF100323A71.b/0C23006-TUN171.d
Date : 23-MAR-2010 13:54
Client ID: BFB
Instrument: 5972hp71.i
Sample Info: 0C23006-TUN1:JAO
Volume Injected (uL): 2.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/0C31006-TUN171.d

Date : 31-MAR-2010 12:47

Client ID: BFB

Instrument: 5972hp71.i

Sample Info: 0C31006-TUN1:JAO

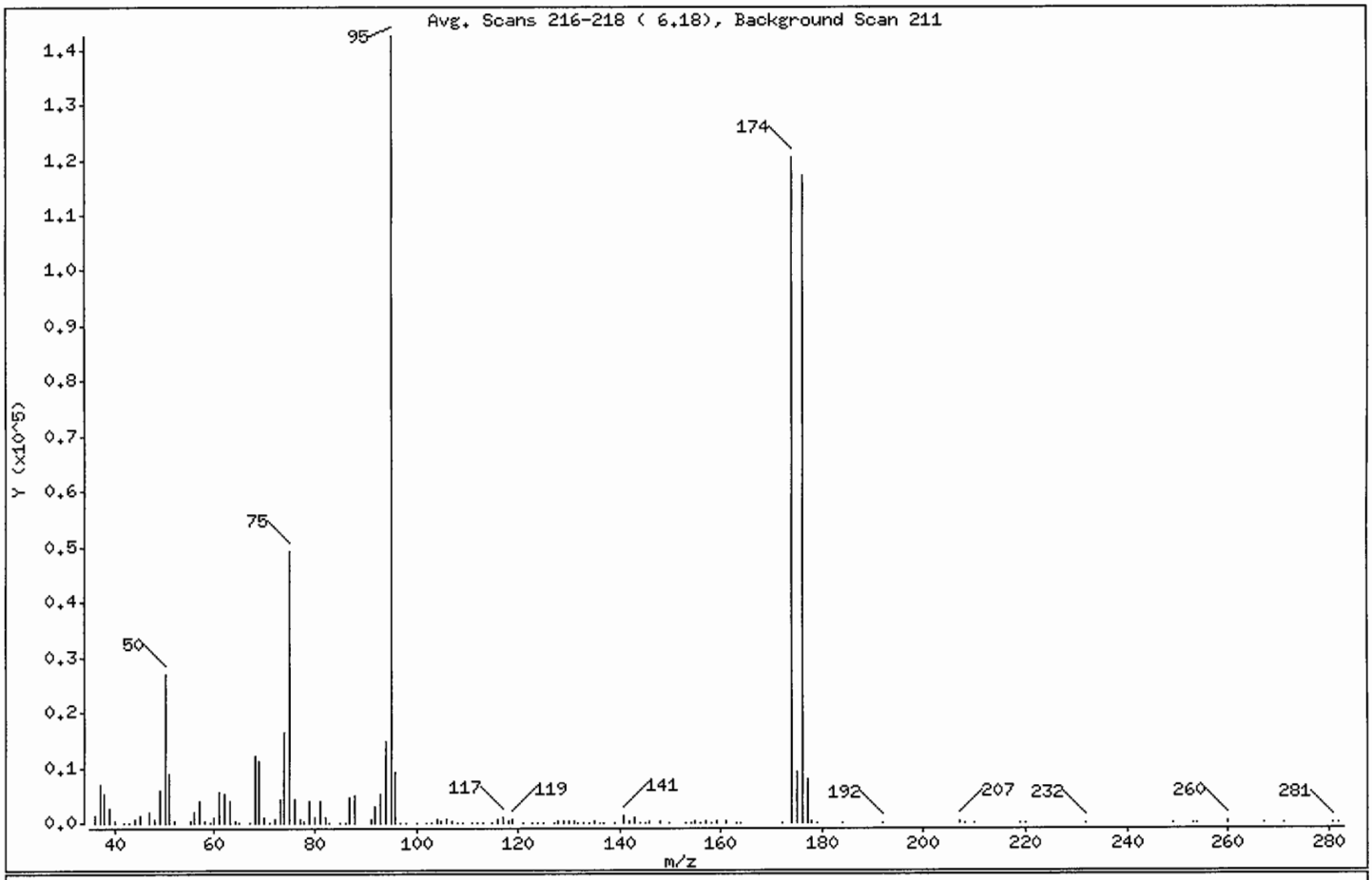
Volume Injected (uL): 2.0

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	18.96
75	30.00 - 60.00% of mass 95	34.57
96	5.00 - 9.00% of mass 95	6.41
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.64
175	5.00 - 9.00% of mass 174	6.38 (7.54)
176	95.00 - 101.00% of mass 174	82.29 (97.22)
177	5.00 - 9.00% of mass 176	5.58 (6.78)

Data File: /chem/5972hp71.i/DF100331A71.b/0C31006-TUN171.d

Date : 31-MAR-2010 12:47

Client ID: BFB | Instrument: 5972hp71.i

Sample Info: 0C31006-TUN1:JAO

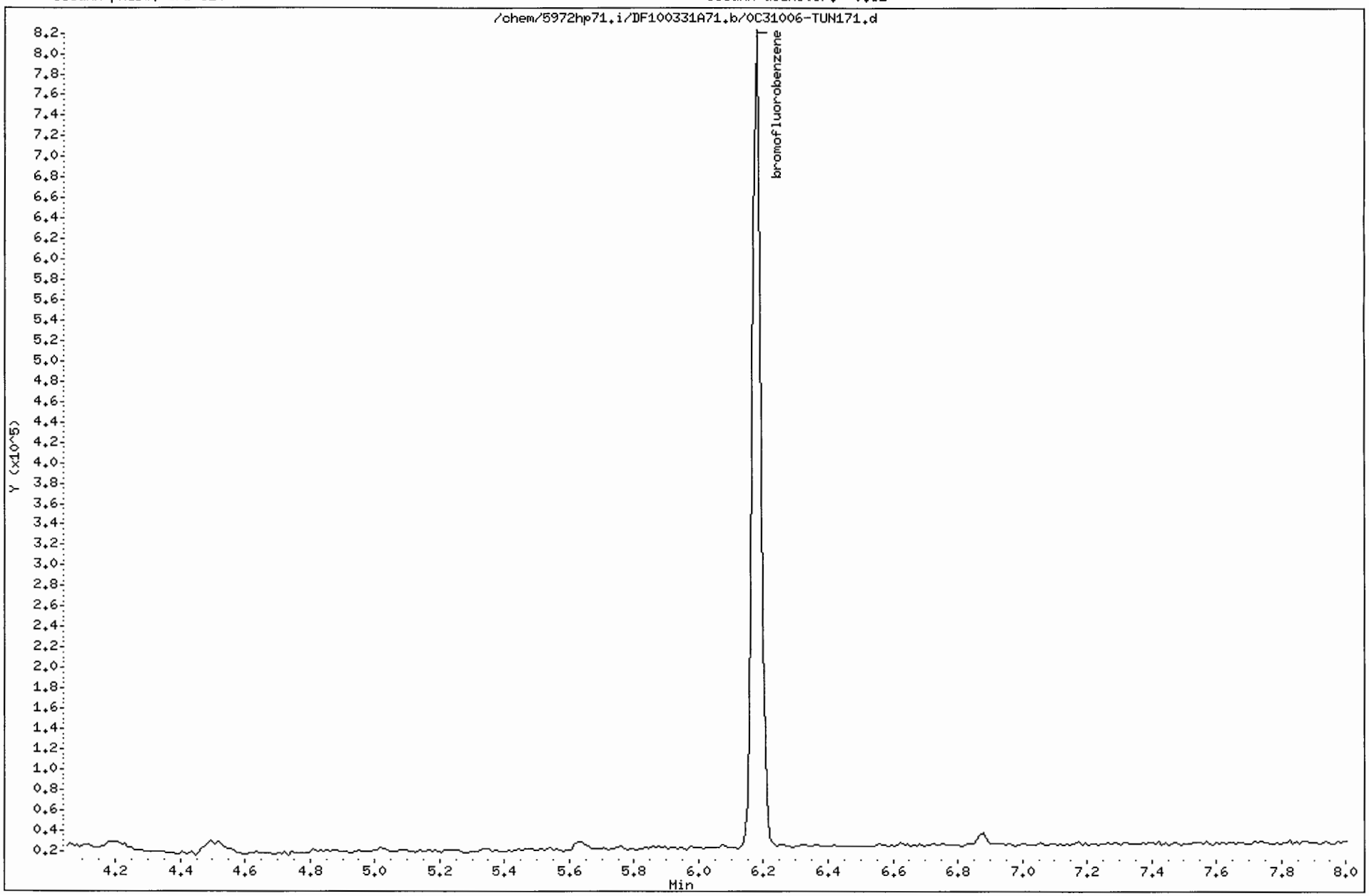
Volume Injected (uL): 2.0 | Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Data File: 0C31006-TUN171.d
Spectrum: Avg. Scans 216-218 (6.18), Background Scan 211
Location of Maximum: 95.00
Number of points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1248	74.00	16280	113.00	153	156.00	43
37.00	6777	75.00	49264	115.00	124	157.00	255
38.00	5245	76.00	4426	116.00	564	158.00	34
39.00	2556	77.00	589	117.00	905	159.00	207
40.00	247	78.00	186	118.00	439	161.00	257
42.00	20	79.00	4013	119.00	669	163.00	63
43.00	12	80.00	1062	121.00	97	164.00	66
44.00	634	81.00	4065	123.00	114	172.00	59
45.00	1329	82.00	923	124.00	138	174.00	120640
47.00	1899	83.00	146	125.00	134	175.00	9100
48.00	738	85.00	103	127.00	53	176.00	117288
49.00	5839	86.00	106	128.00	434	177.00	7947
50.00	27032	87.00	4711	129.00	182	178.00	221
51.00	8932	88.00	5064	130.00	460	179.00	26
52.00	258	91.00	510	131.00	249	184.00	36
55.00	371	92.00	3114	132.00	45	192.00	80
56.00	2062	93.00	5140	133.00	102	207.00	403
57.00	3829	94.00	14919	134.00	114	208.00	142
58.00	293	95.00	142528	135.00	238	210.00	92
59.00	70	96.00	9137	136.00	43	219.00	35
60.00	1089	97.00	51	137.00	152	220.00	40
61.00	5593	98.00	36	139.00	40	232.00	35
62.00	5374	100.00	69	141.00	1170	249.00	40
63.00	3958	102.00	44	142.00	173	253.00	36
64.00	419	103.00	109	143.00	998	254.00	45
65.00	143	104.00	696	144.00	45	260.00	239
67.00	130	105.00	197	145.00	144	267.00	24
68.00	12086	106.00	598	146.00	233	271.00	35
69.00	11311	107.00	264	148.00	382	281.00	41
70.00	822	108.00	2	150.00	158	282.00	13
71.00	113	109.00	51	153.00	72		
72.00	511	111.00	142	154.00	37		
73.00	4400	112.00	104	155.00	306		

Data File: /chem/5972hp71.i/DF100331A71.b/0C31006-TUN171.d
Date : 31-MAR-2010 12:47
Client ID: BFB
Instrument: 5972hp71.i
Sample Info: 0C31006-TUN1:JAO
Volume Injected (uL): 2.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



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.

VBLKIK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BLK1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BLK171_8

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.78	J
107-05-1	3-Chloropropene	0.50	U
75-05-8	Acetonitrile	0.50	U
75-09-2	Methylene Chloride	0.41	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 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKIK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BLK1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BLK171_8

Level: (low/med) LOW Date Received: _____

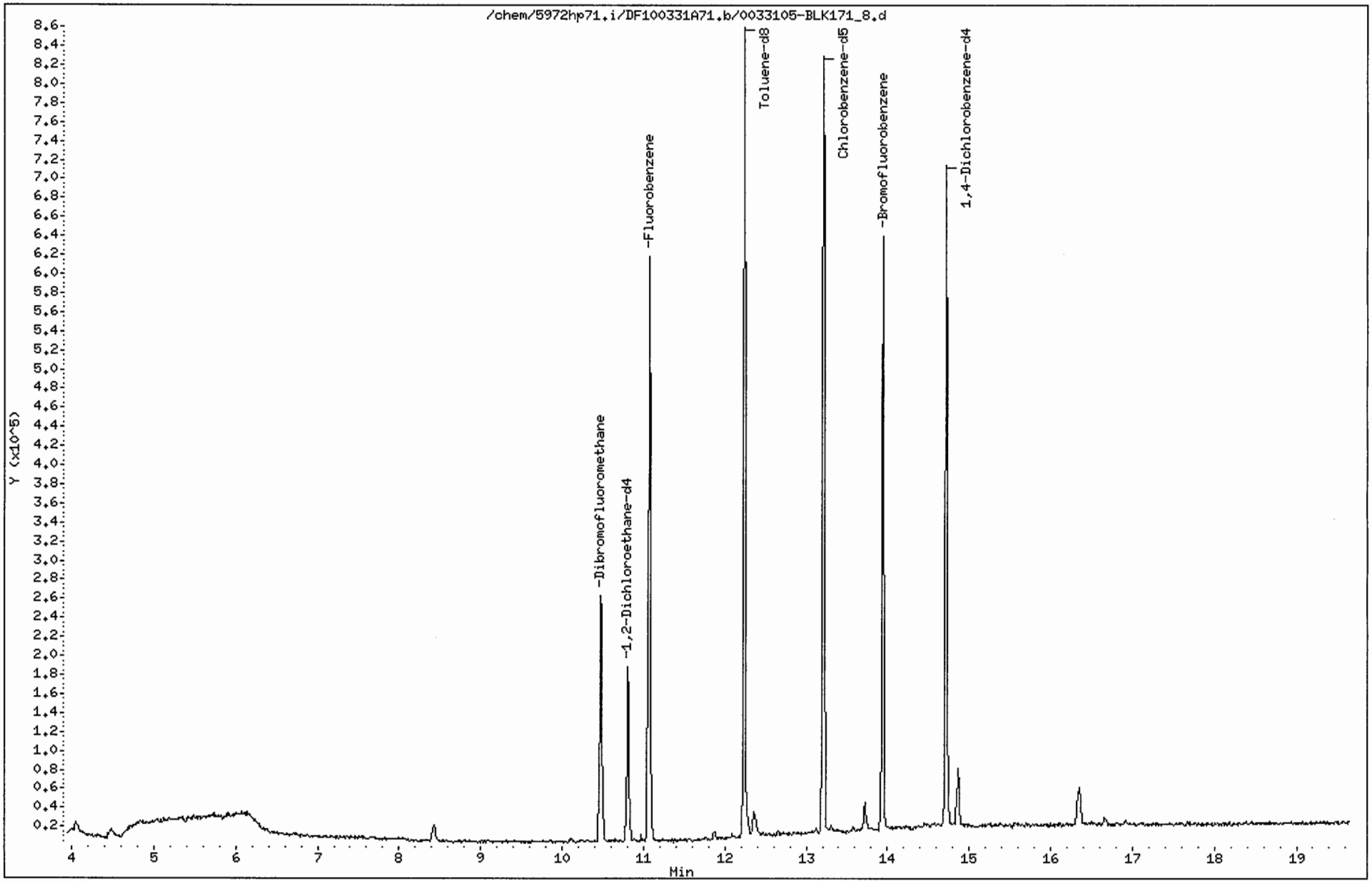
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	0.096	J
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	0.18	J
1330-20-7	Xylene (total)	0.50	U
126-99-8	Chloroprene	0.50	U

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d
Date : 31-MAR-2010 13:55
Client ID: VBLKIK
Instrument: 5972hp71.i
Sample Info: 0033105-BLK1:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d
Report Date: 08-Apr-2010 16:55

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d
Lab Smp Id: 0033105-BLK1 Client Smp ID: VBLKIK
Inj Date : 31-MAR-2010 13:55
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0033105-BLK1:JAO
Misc Info : VBLKIK
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 08-Apr-2010 16:52 pkhare Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	11.072	11.069	(1.000)	522676	125.000	
* 2 Chlorobenzene-d5	117	13.210	13.216	(1.000)	429901	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.717	14.714	(1.000)	174525	125.000	
$ 4 Dibromofluoromethane	113	10.471	10.478	(0.946)	163478	115.851	4.6
$ 5 1,2-Dichloroethane-d4	65	10.806	10.812	(0.976)	117316	111.240	4.4
$ 6 Toluene-d8	98	12.244	12.241	(0.927)	525672	112.975	4.5
$ 7 Bromofluorobenzene	95	13.939	13.936	(0.947)	219771	110.305	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.					
18 Acetone	43	7.683	7.689	(0.694)	2524	19.5415	0.78(a)
19 Iodomethane	142	Compound Not Detected.					

4-8-10

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d
Report Date: 08-Apr-2010 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	8.431	8.428	(0.762)	8832	10.3103	0.41(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	12.284	12.290	(0.930)	6777	2.39605	0.096(a)
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 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d
Report Date: 08-Apr-2010 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	16.668	16.665	(1.133)	7652	4.42795	0.18(a)
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d

Date : 31-MAR-2010 13:55

Client ID: VBLKIK

Instrument: 5972hp71.i

Sample Info: 0033105-BLK1:JAO

Purge Volume: 25.0

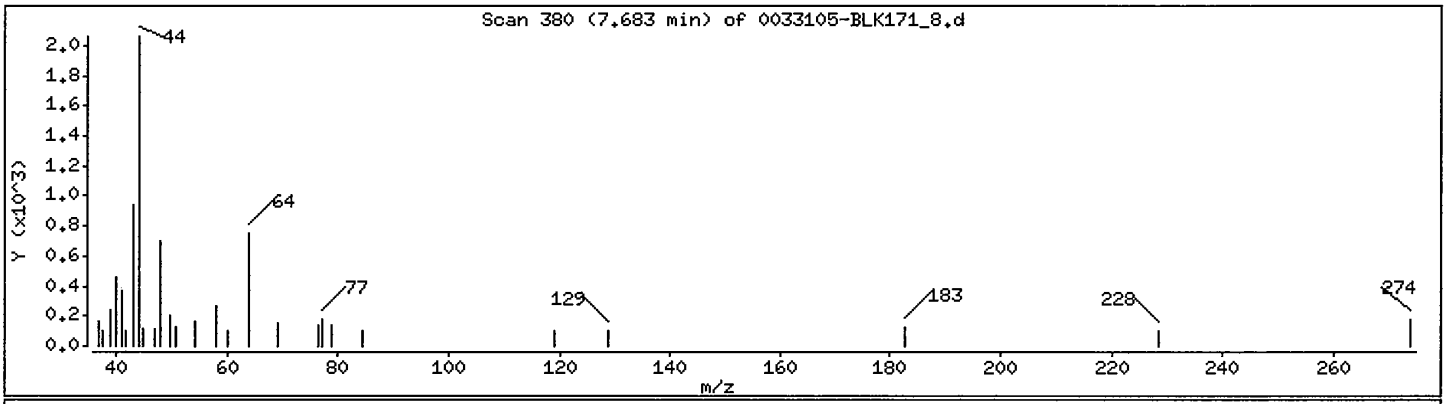
Operator: JAO

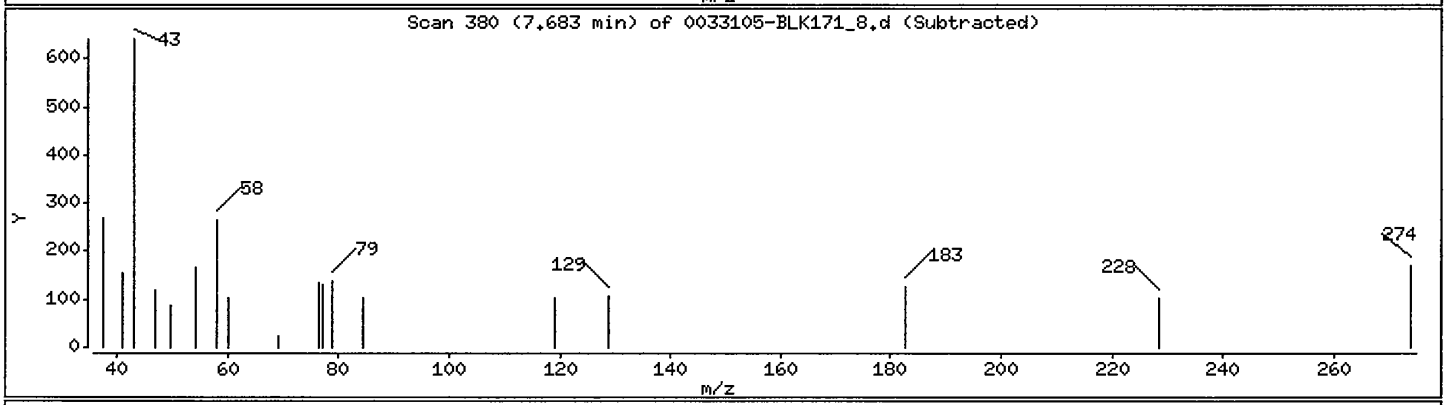
Column phase: SPB-624

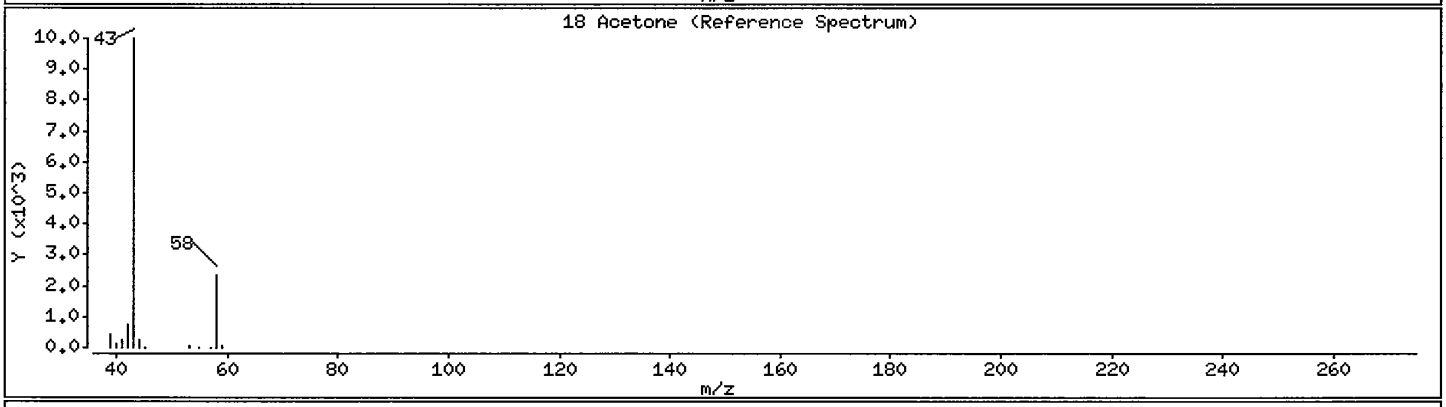
Column diameter: 0.32

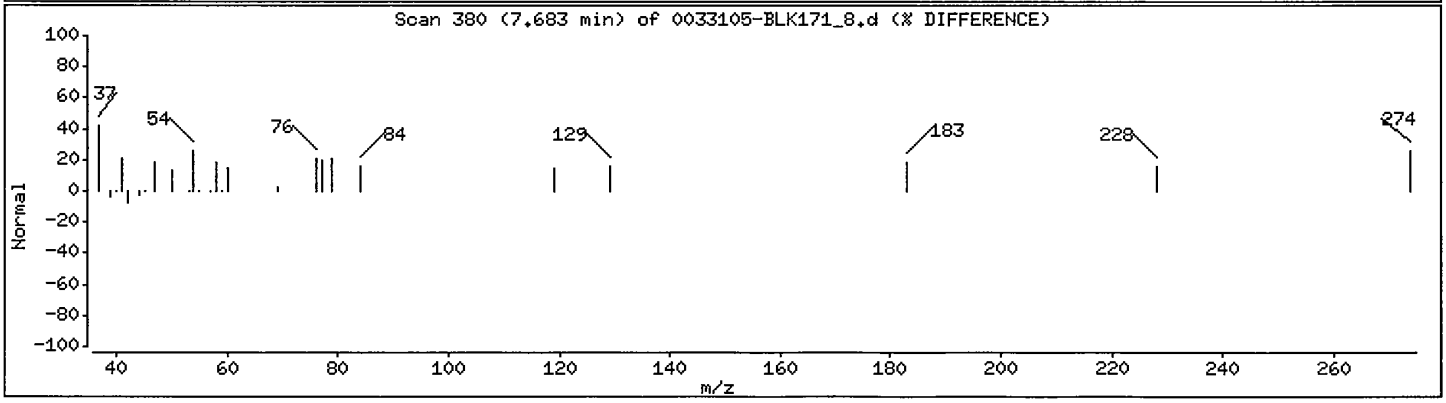
18 Acetone

Concentration: 0.78 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d

Date : 31-MAR-2010 13:55

Client ID: VBLKIK

Instrument: 5972hp71.i

Sample Info: 0033105-BLK1:JAO

Purge Volume: 25.0

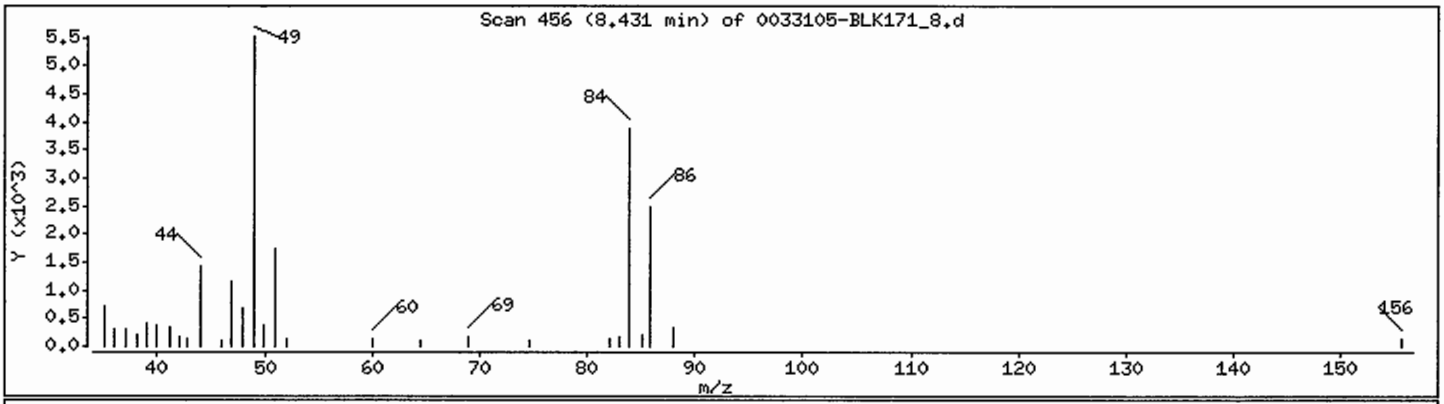
Operator: JAO

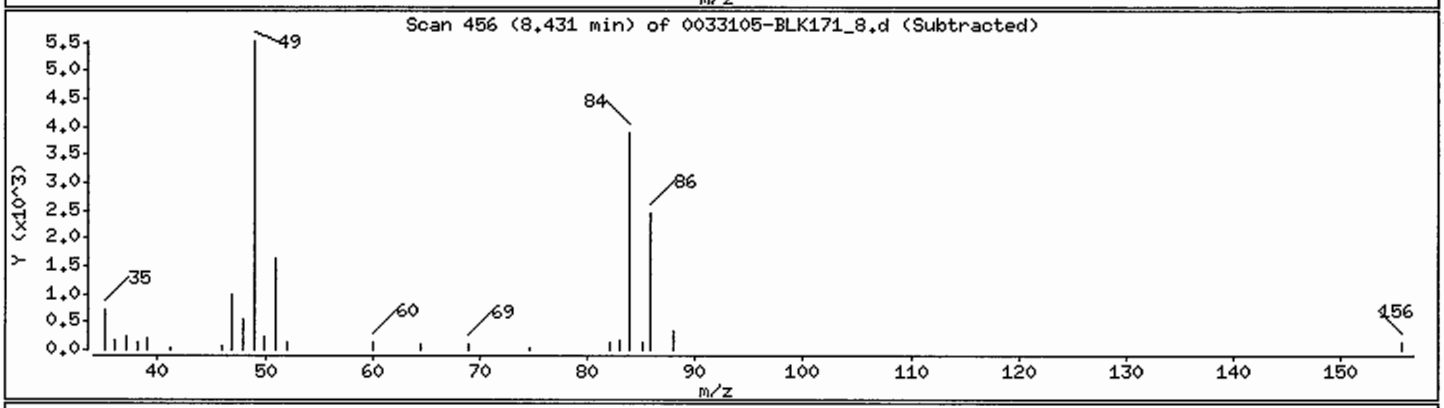
Column phase: SPB-624

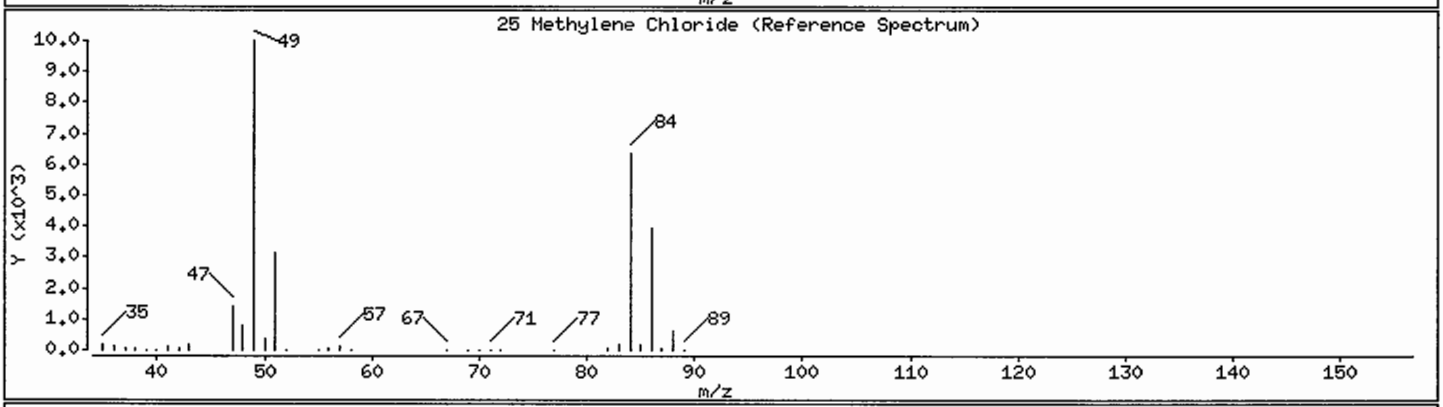
Column diameter: 0.32

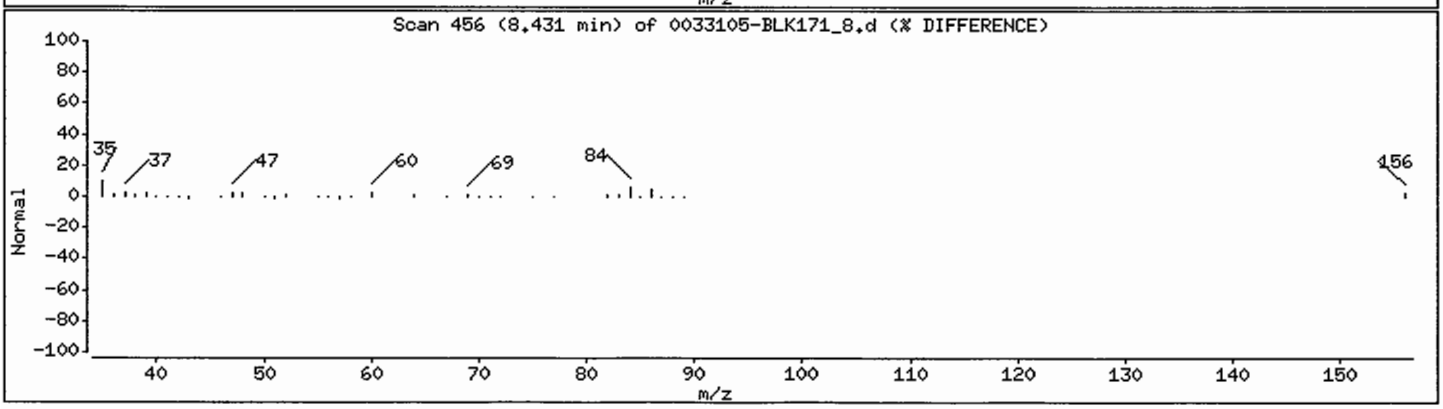
25 Methylene Chloride

Concentration: 0.41 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d

Date : 31-MAR-2010 13:55

Client ID: VBLKIK

Instrument: 5972hp71.i

Sample Info: 0033105-BLK1:JAO

Purge Volume: 25.0

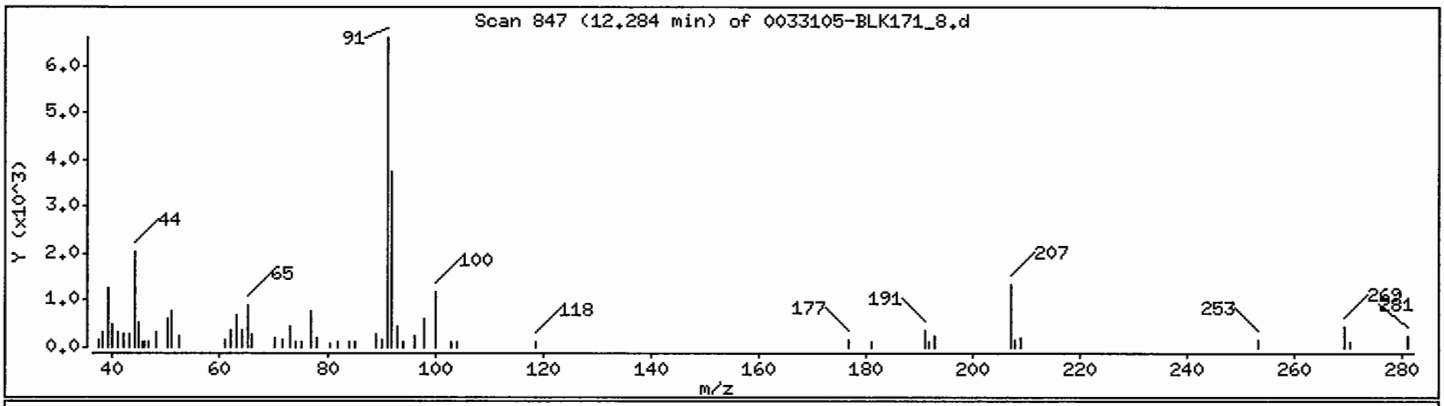
Operator: JAO

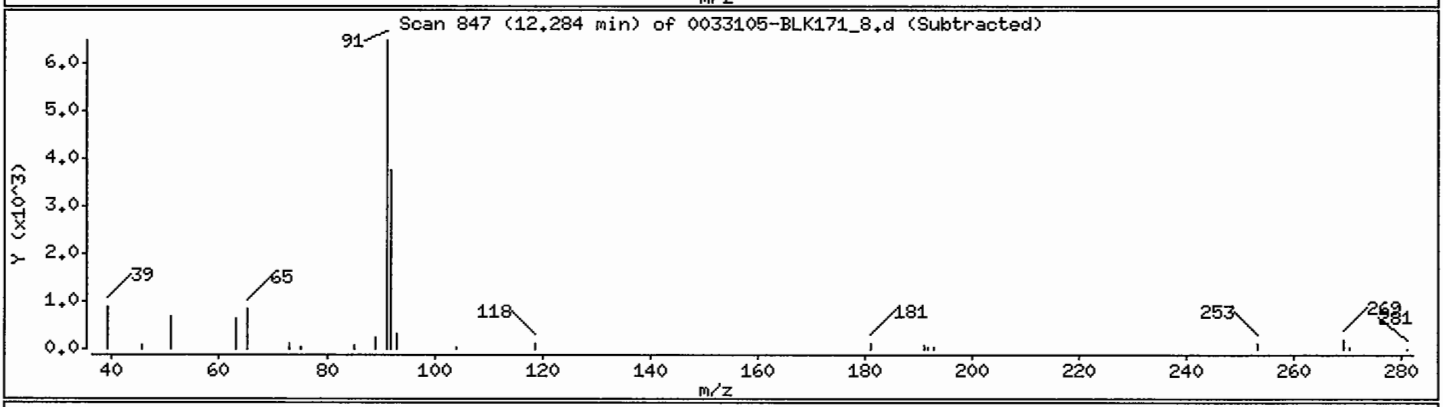
Column phase: SPB-624

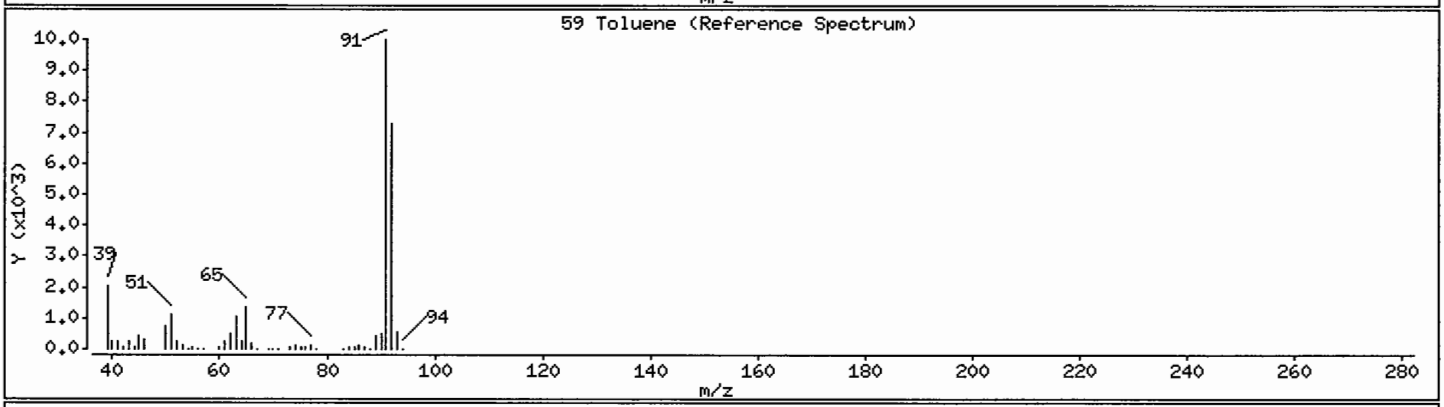
Column diameter: 0.32

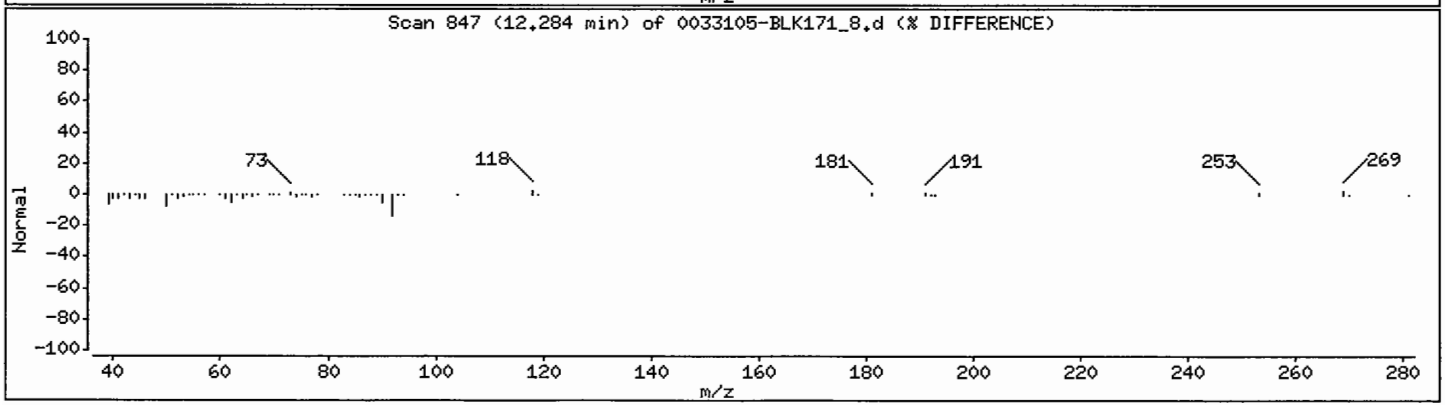
59 Toluene

Concentration: 0.096 ug/L









Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BLK171_8.d

Date : 31-MAR-2010 13:55

Client ID: VBLKIK

Instrument: 5972hp71.i

Sample Info: 0033105-BLK1:JAO

Purge Volume: 25.0

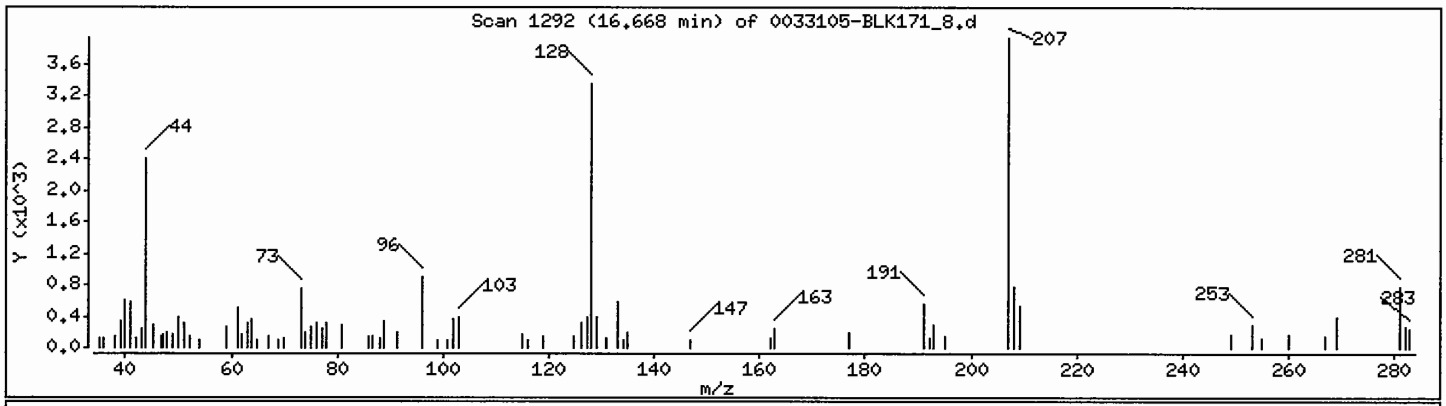
Operator: JAO

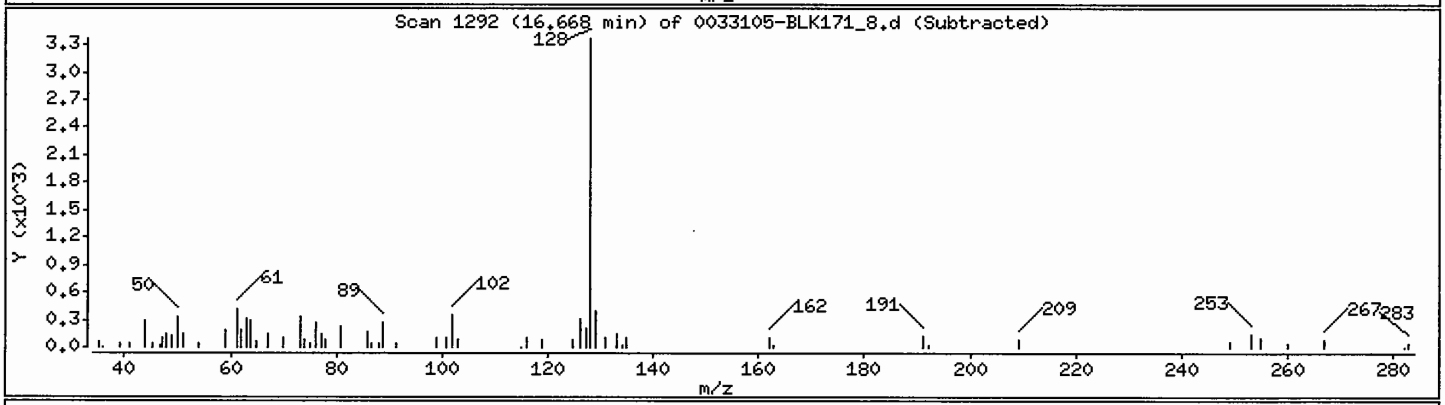
Column phase: SPB-624

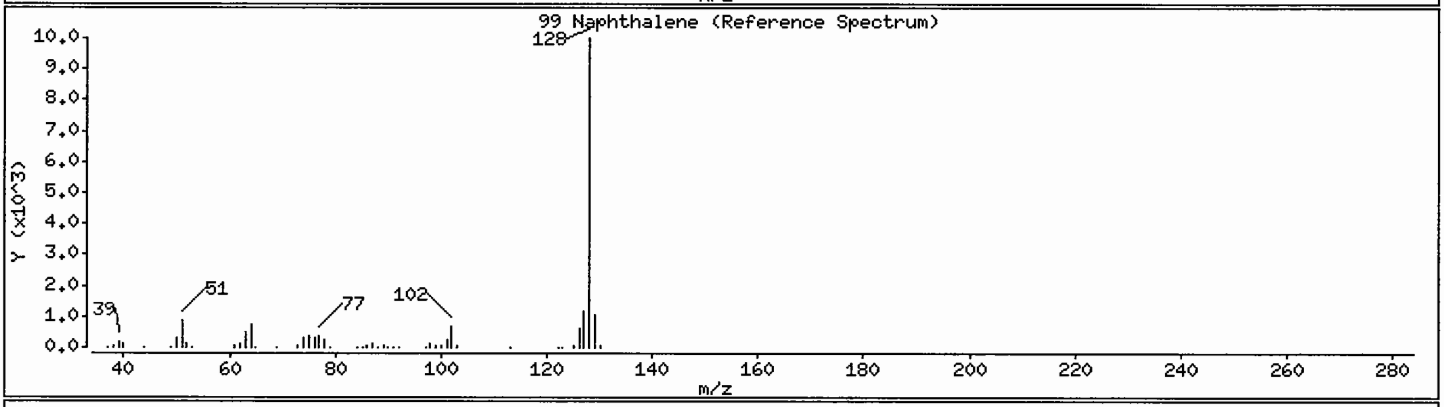
Column diameter: 0.32

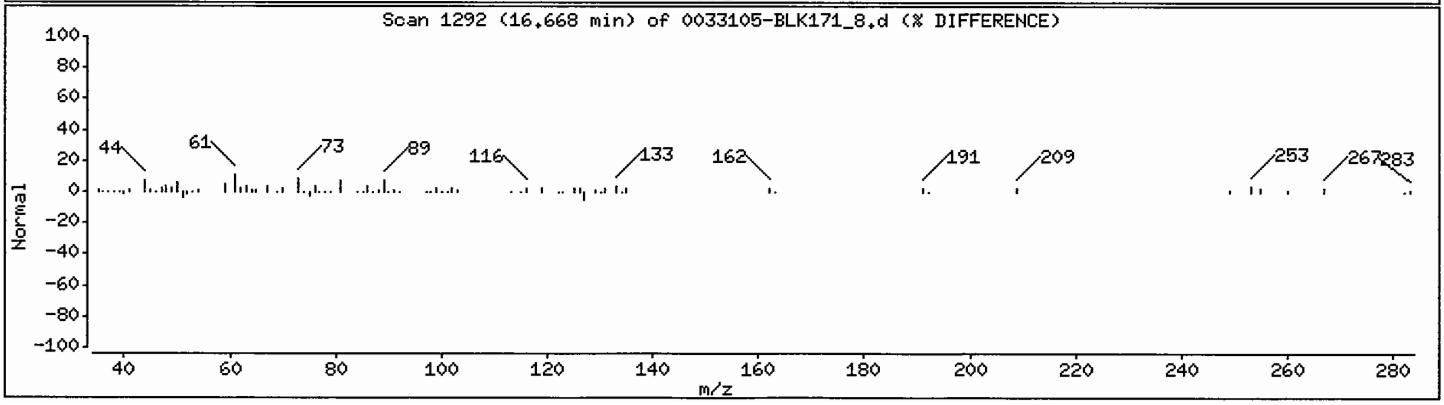
99 Naphthalene

Concentration: 0.18 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.

VIKLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BS1R71_8

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.0	
74-87-3	Chloromethane	6.9	
75-01-4	Vinyl Chloride	7.5	
74-83-9	Bromomethane	3.1	
75-00-3	Chloroethane	5.9	
75-69-4	Trichlorofluoromethane	5.0	
107-02-8	Acrolein	73	
75-35-4	1,1-Dichloroethene	5.2	
74-88-4	Iodomethane	5.2	
75-15-0	Carbon disulfide	5.5	
67-64-1	Acetone	26	B
107-05-1	3-Chloropropene	6.9	
75-05-8	Acetonitrile	7.2	
75-09-2	Methylene Chloride	5.5	B
156-60-5	trans-1,2-Dichloroethene	5.2	
107-13-1	Acrylonitrile	61	
75-34-3	1,1-Dichloroethane	5.2	
108-05-4	Vinyl acetate	11	
594-20-7	2,2-Dichloropropane	4.6	
156-59-2	cis-1,2-Dichloroethene	5.3	
78-93-3	2-butanone	31	
107-12-0	Propionitrile	280	
74-97-5	Bromochloromethane	4.8	
126-98-7	Methacrylonitrile	64	
67-66-3	Chloroform	5.2	
71-55-6	1,1,1-Trichloroethane	4.7	
56-23-5	Carbon Tetrachloride	4.4	
563-58-6	1,1-dichloropropene	5.0	
71-43-2	Benzene	5.5	
107-06-2	1,2-Dichloroethane	4.7	
78-83-1	Isobutyl alcohol	280	
79-01-6	Trichloroethene	4.9	
78-87-5	1,2-Dichloropropane	5.7	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VIKLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-BS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-BS1R71_8

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/10

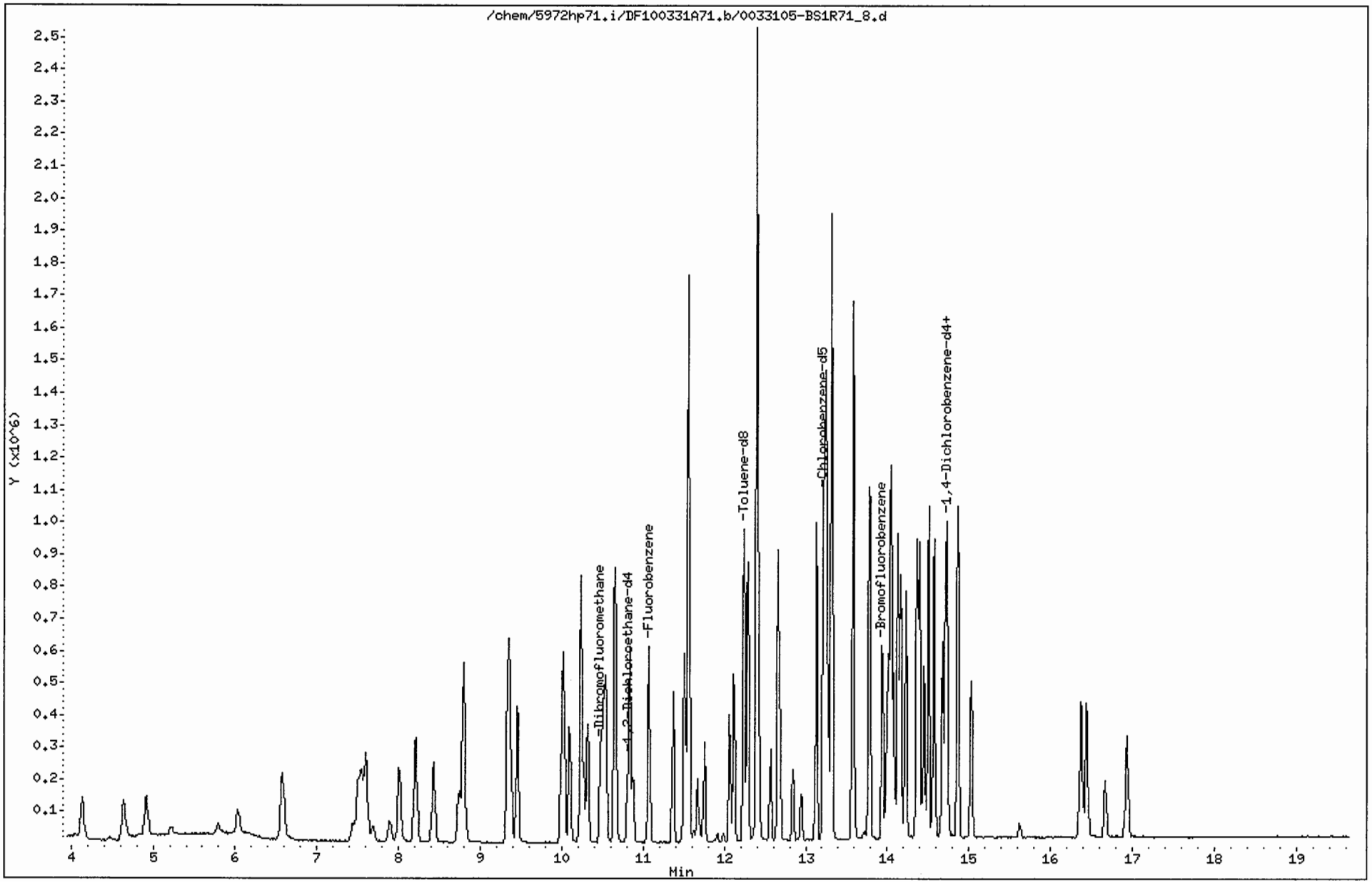
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

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	5.0	
80-62-6	Methylmethacrylate	56	
75-27-4	Bromodichloromethane	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	
108-10-1	4-Methyl-2-pentanone	27	
108-88-3	Toluene	4.8	B
10061-02-6	trans-1,3-Dichloropropene	4.3	
79-00-5	1,1,2-Trichloroethane	4.5	
97-63-2	Ethylmethacrylate	50	
127-18-4	Tetrachloroethene	4.6	
142-28-9	1,3-Dichloropropane	4.7	
591-78-6	2-hexanone	29	
124-48-1	Dibromochloromethane	3.9	
108-90-7	Chlorobenzene	4.4	
630-20-6	1,1,1,2-Tetrachloroethane	4.2	
100-41-4	Ethylbenzene	4.4	
108-38-3	m,p-Xylene	8.9	
95-47-6	o-Xylene	4.4	
100-42-5	Styrene	4.3	
75-25-2	Bromoform	4.0	
96-18-4	1,2,3-Trichloropropane	4.1	
79-34-5	1,1,2,2-Tetrachloroethane	4.5	
110-57-6	trans-1,4-dichloro-2-butene	19	
541-73-1	1,3-Dichlorobenzene	3.9	
106-46-7	1,4-Dichlorobenzene	4.2	
95-50-1	1,2-Dichlorobenzene	4.2	
120-82-1	1,2,4-Trichlorobenzene	4.0	
87-68-3	Hexachlorobutadiene	4.4	
91-20-3	Naphthalene	4.1	B
1330-20-7	Xylene (total)	14	
126-99-8	Chloroprene	5.7	

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BS1R71_8.d
Date : 31-MAR-2010 15:38
Client ID: VIKLCS
Sample Info: 0033105-BS1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp71.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BS1R71_8.d
Report Date: 08-Apr-2010 16:56

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/0033105-BS1R71_8.d
Lab Smp Id: 0033105-BS1 Client Smp ID: VIKLCS
Inj Date : 31-MAR-2010 15:38
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0033105-BS1:JAO
Misc Info : VIKLCS
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 08-Apr-2010 16:55 pkhare Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	11.068	11.069	(1.000)	522578	125.000	
* 2 Chlorobenzene-d5	117	13.216	13.216	(1.000)	449629	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.713	14.714	(1.000)	185665	125.000	
$ 4 Dibromofluoromethane	113	10.477	10.478	(0.947)	163274	115.728	4.6
$ 5 1,2-Dichloroethane-d4	65	10.812	10.812	(0.977)	116156	110.132	4.4
$ 6 Toluene-d8	98	12.240	12.241	(0.926)	532861	109.495	4.4
$ 7 Bromofluorobenzene	95	13.935	13.936	(0.947)	227057	107.124	4.3
8 Dichlorodifluoromethane	85	4.132	4.143	(0.373)	186132	99.7810	4.0
9 Chloromethane	50	4.635	4.635	(0.419)	259094	171.671	6.9
10 Vinyl Chloride	62	4.920	4.921	(0.445)	211605	186.655	7.5(M)
11 Bromomethane	94	5.787	5.788	(0.523)	41900	77.3390	3.1
12 Chloroethane	64	6.034	6.034	(0.545)	99644	148.485	5.9
13 Trichlorofluoromethane	101	6.575	6.576	(0.594)	332542	125.859	5.0
14 Acrolein	56	7.433	7.443	(0.672)	67584	1831.20	73
17 1,1-Dichloroethene	96	7.600	7.601	(0.687)	134188	131.130	5.2
18 Acetone	43	7.689	7.689	(0.695)	84722	656.063	26

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BS1R71_8.d
Report Date: 08-Apr-2010 16:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Iodomethane	142	7.886	7.886	(0.712)	102640	129.578	5.2
20 Carbon disulfide	76	8.004	8.005	(0.723)	453958	137.819	5.5
22 3-Chloropropene	39	8.211	8.212	(0.742)	212565	173.370	6.9
23 Acetonitrile	41	8.211	8.212	(0.742)	308577	179.790	7.2
25 Methylene Chloride	84	8.428	8.428	(0.761)	117679	137.402	5.5
26 Acrylonitrile	53	8.802	8.803	(0.795)	240429	1516.18	61
28 trans-1,2-Dichloroethene	96	8.792	8.793	(0.794)	152928	130.984	5.2
31 Vinyl acetate	43	9.344	9.354	(0.844)	564097	272.950	11
32 1,1-Dichloroethane	63	9.373	9.374	(0.847)	279715	129.666	5.2
33 Chloroprene	53	9.452	9.453	(0.854)	329607	142.888	5.7
34 2-butanone	43	9.984	9.985	(0.902)	139688	762.509	31
35 2,2-Dichloropropane	77	10.004	10.005	(0.904)	213803	114.692	4.6
36 cis-1,2-Dichloroethene	96	10.024	10.024	(0.906)	158673	133.716	5.3
37 Propionitrile	54	10.093	10.093	(0.912)	384153	7120.07	280
38 Methacrylonitrile	41	10.231	10.231	(0.924)	504685	1595.37	64
39 Bromochloromethane	128	10.270	10.271	(0.928)	40945	120.289	4.8
40 Chloroform	83	10.319	10.320	(0.932)	256623	130.006	5.2
42 1,1,1-Trichloroethane	97	10.506	10.507	(0.949)	275008	116.694	4.7
44 1,1-dichloropropene	75	10.654	10.655	(0.963)	185278	124.190	5.0
45 Isobutyl alcohol	43	10.674	10.675	(0.964)	99489	6969.44	280
46 Carbon Tetrachloride	117	10.654	10.655	(0.963)	214319	110.577	4.4
47 Benzene	78	10.841	10.842	(0.980)	452154	136.675	5.5
48 1,2-Dichloroethane	62	10.881	10.881	(0.983)	157892	116.513	4.7
49 Trichloroethene	130	11.373	11.374	(1.028)	122230	121.457	4.9
51 1,2-Dichloropropane	63	11.561	11.561	(1.044)	130215	142.467	5.7
52 Methylmethacrylate	69	11.551	11.551	(1.044)	403680	1387.90	56
54 Dibromomethane	174	11.669	11.670	(1.054)	57772	125.176	5.0
55 Bromodichloromethane	83	11.758	11.758	(1.062)	170980	124.743	5.0
57 cis-1,3-Dichloropropene	75	12.063	12.064	(1.090)	164151	126.160	5.0
58 4-Methyl-2-pentanone	43	12.112	12.113	(0.917)	366261	687.275	27
59 Toluene	92	12.290	12.290	(0.930)	355228	120.082	4.8
60 Ethylmethacrylate	69	12.398	12.399	(0.938)	936106	1242.57	50
61 trans-1,3-Dichloropropene	75	12.428	12.428	(0.940)	143900	106.982	4.3
62 1,1,2-Trichloroethane	97	12.566	12.566	(0.951)	77943	113.734	4.5
63 2-hexanone	43	12.654	12.655	(0.957)	257817	717.144	29
64 1,3-Dichloropropane	76	12.684	12.684	(0.960)	123464	118.325	4.7
65 Tetrachloroethene	164	12.664	12.665	(0.958)	113347	115.330	4.6
66 Dibromochloromethane	129	12.841	12.842	(0.972)	92883	96.9738	3.9
69 Chlorobenzene	112	13.236	13.236	(1.001)	411238	109.428	4.4
70 Ethylbenzene	106	13.245	13.246	(1.002)	239336	110.066	4.4
71 1,1,1,2-Tetrachloroethane	131	13.265	13.266	(1.004)	110732	105.679	4.2
72 m,p-Xylene	106	13.314	13.315	(1.007)	602717	222.707	8.9
73 m,p-Xylene (part of total)	106	13.314	13.315	(1.007)	602717	222.707	8.9
74 o-Xylene	106	13.580	13.581	(1.028)	278674	110.291	4.4
75 o-Xylene (part of total)	106	13.580	13.581	(1.028)	278674	110.291	4.4
76 Styrene	104	13.590	13.581	(1.028)	412474	106.868	4.3
77 Bromoform	173	13.777	13.778	(1.042)	57638	99.1196	4.0

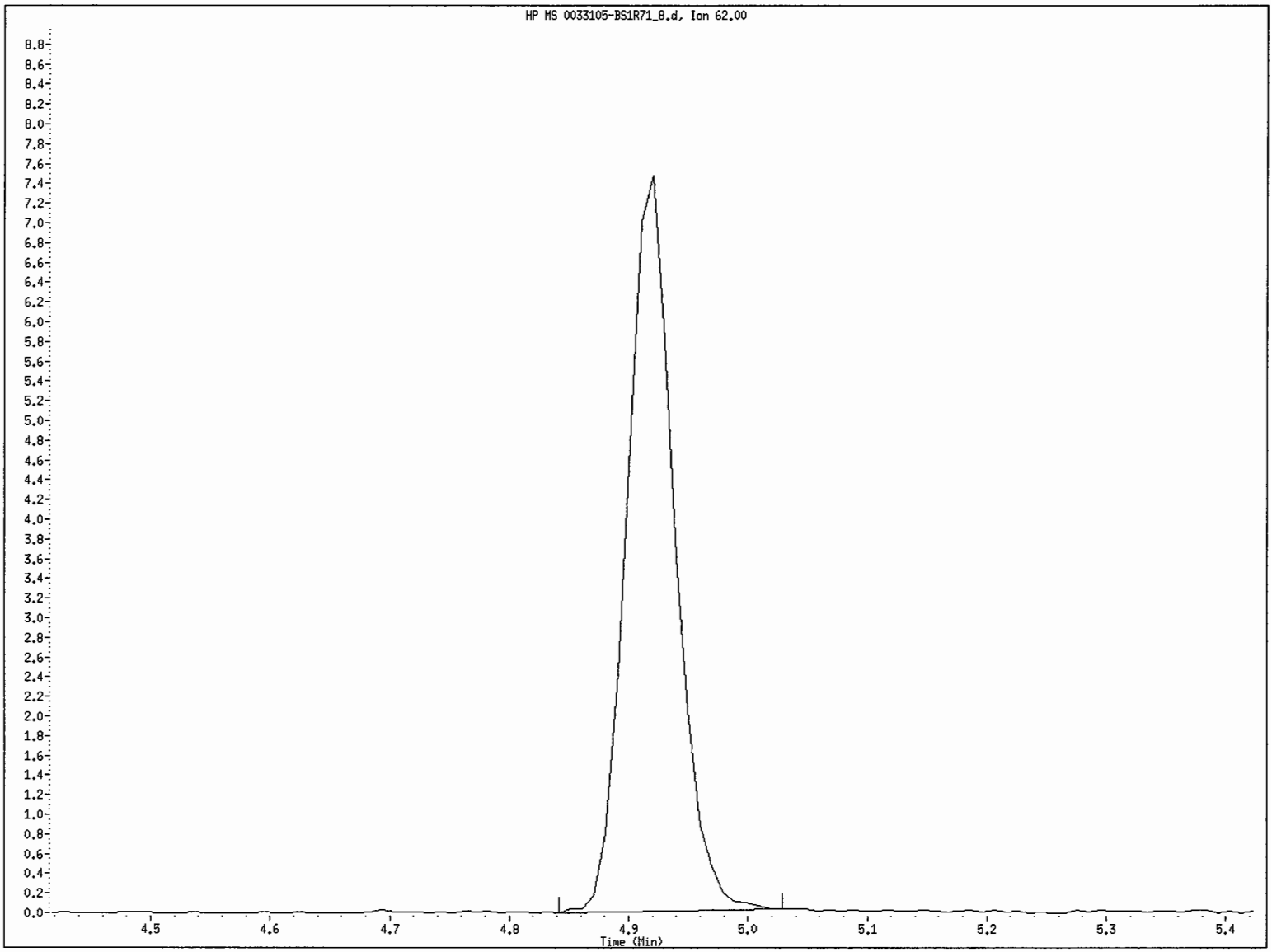
Data File: /chem/5972hp71.i/DF100331A71.b/0033105-BS1R71_8.d
Report Date: 08-Apr-2010 16:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
79	1,1,2,2-Tetrachloroethane	83	13.984	13.985	(0.950)	82038	112.129	4.5
81	1,2,3-Trichloropropane	110	14.043	14.044	(1.063)	26540	103.456	4.1
80	trans-1,4-dichloro-2-butene	53	14.004	14.005	(1.060)	139397	467.298	19
92	1,3-Dichlorobenzene	146	14.674	14.675	(0.997)	229758	98.6305	3.9
93	1,4-Dichlorobenzene	146	14.733	14.734	(1.001)	236896	105.213	4.2
95	1,2-Dichlorobenzene	146	15.029	15.029	(1.021)	192695	105.267	4.2
97	1,2,4-Trichlorobenzene	180	16.378	16.369	(1.113)	187831	101.040	4.0
98	Hexachlorobutadiene	225	16.447	16.438	(1.118)	99563	109.087	4.4
99	Naphthalene	128	16.664	16.665	(1.133)	188775	102.683	4.1
M 102	Xylene (total)	106				881391	348.829	14

QC Flag Legend

M - Compound response manually integrated.

Vinyl Chloride CAS Number 75-01-4 Area = 211605 Manually integrated



File name: /chem/5972hp71.i/DF100331A71.b/0033105-BS1R71_8.d
Client ID: VIKLCS
Instrument ID: 5972hp71.i
Injection Date and Time: 31-MAR-2010 15:38
Retention Time: 4.92
Operator ID: JAO

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MS171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.6	
74-87-3	Chloromethane	6.6	
75-01-4	Vinyl Chloride	7.2	
74-83-9	Bromomethane	3.2	
75-00-3	Chloroethane	7.7	
75-69-4	Trichlorofluoromethane	5.9	
107-02-8	Acrolein	60	
75-35-4	1,1-Dichloroethene	5.6	
74-88-4	Iodomethane	6.6	
75-15-0	Carbon disulfide	5.8	
67-64-1	Acetone	33	B
107-05-1	3-Chloropropene	8.1	
75-05-8	Acetonitrile	7.9	
75-09-2	Methylene Chloride	5.9	B
156-60-5	trans-1,2-Dichloroethene	6.0	
107-13-1	Acrylonitrile	61	
75-34-3	1,1-Dichloroethane	14	
108-05-4	Vinyl acetate	12	
594-20-7	2,2-Dichloropropane	5.7	
156-59-2	cis-1,2-Dichloroethene	26	
78-93-3	2-butanone	36	
107-12-0	Propionitrile	310	
74-97-5	Bromochloromethane	5.5	
126-98-7	Methacrylonitrile	69	
67-66-3	Chloroform	6.0	
71-55-6	1,1,1-Trichloroethane	5.5	
56-23-5	Carbon Tetrachloride	5.1	
563-58-6	1,1-dichloropropene	5.5	
71-43-2	Benzene	5.7	
107-06-2	1,2-Dichloroethane	5.6	
78-83-1	Isobutyl alcohol	350	
79-01-6	Trichloroethene	7.2	
78-87-5	1,2-Dichloropropane	6.4	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MS1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MS171

Level: (low/med) LOW Date Received: 03/19/10

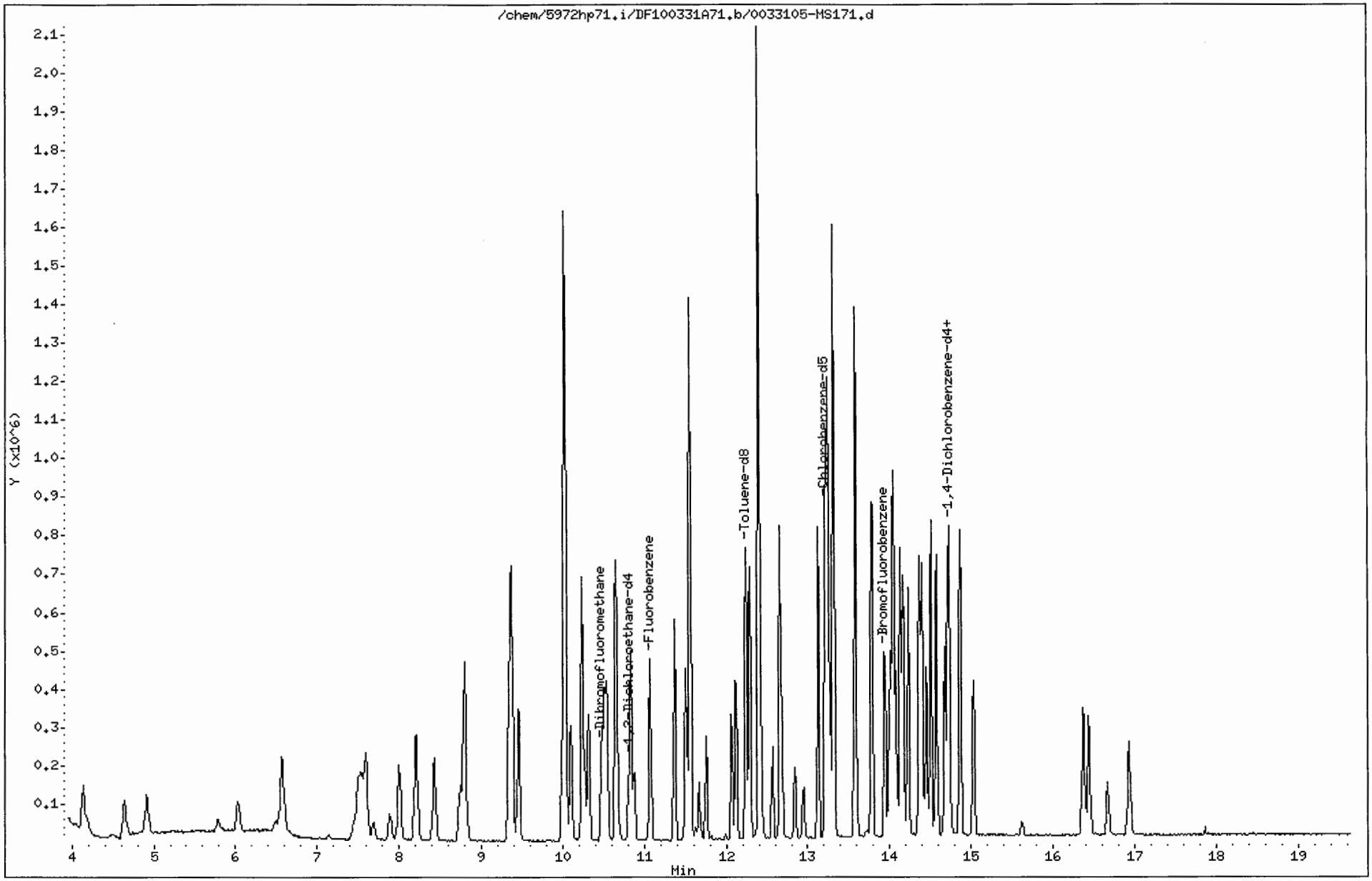
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	58	
75-27-4	Bromodichloromethane	5.7	
10061-01-5	cis-1,3-Dichloropropene	5.4	
108-10-1	4-Methyl-2-pentanone	30	
108-88-3	Toluene	4.8	B
10061-02-6	trans-1,3-Dichloropropene	4.7	
79-00-5	1,1,2-Trichloroethane	4.7	
97-63-2	Ethylmethacrylate	50	
127-18-4	Tetrachloroethene	5.1	
142-28-9	1,3-Dichloropropane	4.9	
591-78-6	2-hexanone	31	
124-48-1	Dibromochloromethane	4.0	
108-90-7	Chlorobenzene	4.4	
630-20-6	1,1,1,2-Tetrachloroethane	4.2	
100-41-4	Ethylbenzene	4.4	
108-38-3	m,p-Xylene	9.2	
95-47-6	o-Xylene	4.6	
100-42-5	Styrene	4.4	
75-25-2	Bromoform	4.1	
96-18-4	1,2,3-Trichloropropane	4.4	
79-34-5	1,1,2,2-Tetrachloroethane	4.7	
110-57-6	trans-1,4-dichloro-2-butene	21	
541-73-1	1,3-Dichlorobenzene	3.9	
106-46-7	1,4-Dichlorobenzene	4.1	
95-50-1	1,2-Dichlorobenzene	4.2	
120-82-1	1,2,4-Trichlorobenzene	3.9	
87-68-3	Hexachlorobutadiene	3.8	
91-20-3	Naphthalene	3.9	B
1330-20-7	Xylene (total)	14	
126-99-8	Chloroprene	6.5	

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MS171.d
Date : 31-MAR-2010 20:12
Client ID: MW-3MS
Instrument: 5972hp71.i
Sample Info: 0033105-MS1:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MS171.d
Report Date: 07-Apr-2010 16:12

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/0033105-MS171.d
Lab Smp Id: 0033105-MS1 Client Smp ID: MW-3MS
Inj Date : 31-MAR-2010 20:12
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0033105-MS1:JAO
Misc Info : MW-3MS
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.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)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	11.068	11.069	(1.000)	394009	125.000	
* 2 Chlorobenzene-d5	117	13.216	13.216	(1.000)	353252	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.714	14.714	(1.000)	145052	125.000	
$ 4 Dibromofluoromethane	113	10.477	10.478	(0.947)	128575	120.872	4.8
$ 5 1,2-Dichloroethane-d4	65	10.812	10.812	(0.977)	102434	129.316	5.2
$ 6 Toluene-d8	98	12.241	12.241	(0.926)	402503	105.274	4.2
$ 7 Bromofluorobenzene	95	13.935	13.936	(0.947)	191734	115.787	4.6
8 Dichlorodifluoromethane	85	4.133	4.143	(0.373)	161188	114.606	4.6
9 Chloromethane	50	4.635	4.635	(0.419)	187393	164.679	6.6
10 Vinyl Chloride	62	4.911	4.921	(0.444)	154266	180.479	7.2
11 Bromomethane	94	5.788	5.788	(0.523)	33705	81.1151	3.2
12 Chloroethane	64	6.024	6.034	(0.544)	96173	192.190	7.7(R)
13 Trichlorofluoromethane	101	6.566	6.576	(0.593)	296548	148.411	5.9
14 Acrolein	56	7.443	7.443	(0.672)	41948	1507.47	60
17 1,1-Dichloroethene	96	7.601	7.601	(0.687)	108536	140.673	5.6

4-7-10

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MS171.d
Report Date: 07-Apr-2010 16:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
18 Acetone	43	7.689	7.689	(0.695)	79925	820.878	33
19 Iodomethane	142	7.886	7.886	(0.712)	97952	164.012	6.6
20 Carbon disulfide	76	8.004	8.005	(0.723)	362202	145.845	5.8
22 3-Chloropropene	39	8.211	8.212	(0.742)	186883	202.161	8.1(R)
23 Acetonitrile	41	8.211	8.212	(0.742)	253974	196.262	7.9(R)
25 Methylene Chloride	84	8.428	8.428	(0.761)	94809	146.822	5.9
26 Acrylonitrile	53	8.802	8.803	(0.795)	182694	1528.03	61
28 trans-1,2-Dichloroethene	96	8.793	8.793	(0.794)	131813	149.740	6.0
31 Vinyl acetate	43	9.354	9.354	(0.845)	469259	301.153	12
32 1,1-Dichloroethane	63	9.374	9.374	(0.847)	556106	341.911	14(R)
33 Chloroprene	53	9.453	9.453	(0.854)	283052	162.747	6.5
34 2-butanone	43	9.995	9.985	(0.903)	124150	898.833	36(R)
35 2,2-Dichloropropane	77	10.014	10.005	(0.905)	200075	142.350	5.7
36 cis-1,2-Dichloroethene	96	10.024	10.024	(0.906)	575527	643.268	26(R)
37 Propionitrile	54	10.103	10.093	(0.913)	316433	7778.71	310
38 Methacrylonitrile	41	10.241	10.231	(0.925)	413398	1733.23	69
39 Bromochloromethane	128	10.270	10.271	(0.928)	35070	138.398	5.5
40 Chloroform	83	10.320	10.320	(0.932)	221745	148.993	6.0
42 1,1,1-Trichloroethane	97	10.507	10.507	(0.949)	243178	136.859	5.5
44 1,1-dichloropropene	75	10.655	10.655	(0.963)	154142	137.034	5.5
45 Isobutyl alcohol	43	10.674	10.675	(0.964)	93253	8664.28	350
46 Carbon Tetrachloride	117	10.655	10.655	(0.963)	186408	128.360	5.1
47 Benzene	78	10.842	10.842	(0.980)	358318	143.654	5.7
48 1,2-Dichloroethane	62	10.881	10.881	(0.983)	143372	140.321	5.6
49 Trichloroethene	130	11.374	11.374	(1.028)	135879	179.078	7.2
51 1,2-Dichloropropane	63	11.561	11.561	(1.044)	110806	160.792	6.4
52 Methylmethacrylate	69	11.551	11.551	(1.044)	316834	1444.77	58
54 Dibromomethane	174	11.669	11.670	(1.054)	42206	121.290	4.9
55 Bromodichloromethane	83	11.758	11.758	(1.062)	146153	141.425	5.7
57 cis-1,3-Dichloropropene	75	12.064	12.064	(1.090)	132491	135.055	5.4
58 4-Methyl-2-pentanone	43	12.113	12.113	(0.917)	310083	740.606	30
59 Toluene	92	12.290	12.290	(0.930)	277974	119.604	4.8
60 Ethylmethacrylate	69	12.399	12.399	(0.938)	745987	1260.36	50
61 trans-1,3-Dichloropropene	75	12.428	12.428	(0.940)	124339	117.660	4.7
62 1,1,2-Trichloroethane	97	12.566	12.566	(0.951)	63772	118.445	4.7
63 2-hexanone	43	12.655	12.655	(0.957)	221543	784.372	31
64 1,3-Dichloropropane	76	12.684	12.684	(0.960)	100287	122.335	4.9
65 Tetrachloroethene	164	12.665	12.665	(0.958)	98285	128.322	5.1
66 Dibromochloromethane	129	12.842	12.842	(0.972)	75944	100.922	4.0
69 Chlorobenzene	112	13.236	13.236	(1.001)	327083	110.780	4.4
70 Ethylbenzene	106	13.246	13.246	(1.002)	188974	110.616	4.4
71 1,1,1,2-Tetrachloroethane	131	13.266	13.266	(1.004)	86949	105.622	4.2
72 m,p-Xylene	106	13.315	13.315	(1.007)	490615	230.744	9.2
73 m,p-Xylene (part of total)	106	13.315	13.315	(1.007)	490615	230.744	9.2
74 o-Xylene	106	13.581	13.581	(1.028)	226106	113.901	4.6
75 o-Xylene (part of total)	106	13.581	13.581	(1.028)	226106	113.901	4.6
76 Styrene	104	13.591	13.581	(1.028)	335417	110.613	4.4

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MS171.d
Report Date: 07-Apr-2010 16:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77 Bromoform	173	13.778	13.778	(1.042)	47261	103.448	4.1
79 1,1,2,2-Tetrachloroethane	83	13.985	13.985	(0.950)	67097	117.385	4.7
81 1,2,3-Trichloropropane	110	14.044	14.044	(1.063)	22170	110.000	4.4
80 trans-1,4-dichloro-2-butene	53	14.004	14.005	(1.060)	123350	526.322	21
92 1,3-Dichlorobenzene	146	14.674	14.675	(0.997)	177821	97.7078	3.9
93 1,4-Dichlorobenzene	146	14.733	14.734	(1.001)	180364	102.534	4.1
95 1,2-Dichlorobenzene	146	15.029	15.029	(1.021)	149643	104.637	4.2
97 1,2,4-Trichlorobenzene	180	16.379	16.369	(1.113)	140326	96.5004	3.9
98 Hexachlorobutadiene	225	16.438	16.438	(1.117)	68265	95.7369	3.8
99 Naphthalene	128	16.674	16.665	(1.133)	138245	96.2524	3.9
M 102 Xylene (total)	106				716721	361.047	14

QC Flag Legend

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MSD1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MSD171

Level: (low/med) LOW Date Received: 03/19/10

% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	4.9	
74-87-3	Chloromethane	7.6	
75-01-4	Vinyl Chloride	8.0	
74-83-9	Bromomethane	3.9	
75-00-3	Chloroethane	7.8	
75-69-4	Trichlorofluoromethane	6.0	
107-02-8	Acrolein	65	
75-35-4	1,1-Dichloroethene	5.8	
74-88-4	Iodomethane	7.6	
75-15-0	Carbon disulfide	5.8	
67-64-1	Acetone	36	B
107-05-1	3-Chloropropene	8.2	
75-05-8	Acetonitrile	8.0	
75-09-2	Methylene Chloride	6.1	B
156-60-5	trans-1,2-Dichloroethene	5.9	
107-13-1	Acrylonitrile	67	
75-34-3	1,1-Dichloroethane	14	
108-05-4	Vinyl acetate	13	
594-20-7	2,2-Dichloropropane	5.5	
156-59-2	cis-1,2-Dichloroethene	26	
78-93-3	2-butanone	38	
107-12-0	Propionitrile	340	
74-97-5	Bromochloromethane	5.9	
126-98-7	Methacrylonitrile	73	
67-66-3	Chloroform	6.0	
71-55-6	1,1,1-Trichloroethane	5.5	
56-23-5	Carbon Tetrachloride	5.1	
563-58-6	1,1-dichloropropene	5.6	
71-43-2	Benzene	5.9	
107-06-2	1,2-Dichloroethane	5.7	
78-83-1	Isobutyl alcohol	400	
79-01-6	Trichloroethene	7.2	
78-87-5	1,2-Dichloropropane	6.5	

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.: 1003173

Matrix: (soil/water) WATER Lab Sample ID: 0033105-MSD1

Sample wt/vol: 25 (g/ml) ML Lab File ID: 0033105-MSD171

Level: (low/med) LOW Date Received: 03/19/10

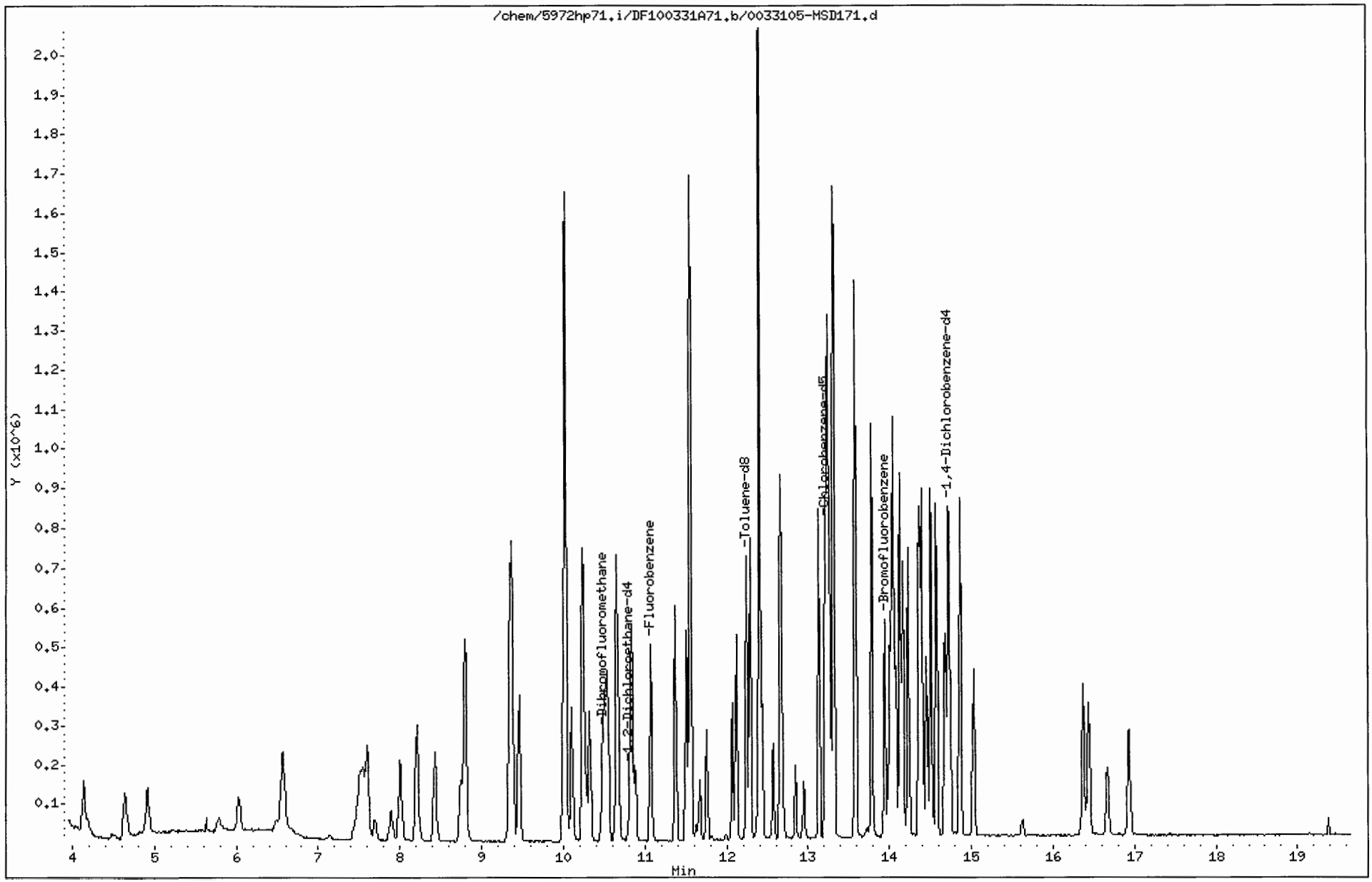
% Moisture: not dec. _____ Date Analyzed: 03/31/10

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	5.0	
80-62-6	Methylmethacrylate	63	
75-27-4	Bromodichloromethane	5.9	
10061-01-5	cis-1,3-Dichloropropene	5.9	
108-10-1	4-Methyl-2-pentanone	33	
108-88-3	Toluene	5.0	B
10061-02-6	trans-1,3-Dichloropropene	4.9	
79-00-5	1,1,2-Trichloroethane	5.0	
97-63-2	Ethylmethacrylate	55	
127-18-4	Tetrachloroethene	5.1	
142-28-9	1,3-Dichloropropane	5.2	
591-78-6	2-hexanone	36	
124-48-1	Dibromochloromethane	4.4	
108-90-7	Chlorobenzene	4.7	
630-20-6	1,1,1,2-Tetrachloroethane	4.7	
100-41-4	Ethylbenzene	4.8	
108-38-3	m,p-Xylene	9.7	
95-47-6	o-Xylene	4.9	
100-42-5	Styrene	4.7	
75-25-2	Bromoform	4.5	
96-18-4	1,2,3-Trichloropropane	4.8	
79-34-5	1,1,2,2-Tetrachloroethane	4.9	
110-57-6	trans-1,4-dichloro-2-butene	22	
541-73-1	1,3-Dichlorobenzene	4.2	
106-46-7	1,4-Dichlorobenzene	4.3	
95-50-1	1,2-Dichlorobenzene	4.4	
120-82-1	1,2,4-Trichlorobenzene	4.2	
87-68-3	Hexachlorobutadiene	4.2	
91-20-3	Naphthalene	4.5	B
1330-20-7	Xylene (total)	15	
126-99-8	Chloroprene	6.4	

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MSD171.d
Date : 31-MAR-2010 20:39
Client ID: MW-3MSD
Instrument: 5972hp71.i
Sample Info: 0033105-MSD1:JAO
Purge Volume: 25.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MSD171.d
Report Date: 07-Apr-2010 16:13

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp71.i/DF100331A71.b/0033105-MSD171.d
Lab Smp Id: 0033105-MSD1 Client Smp ID: MW-3MSD
Inj Date : 31-MAR-2010 20:39
Operator : JAO Inst ID: 5972hp71.i
Smp Info : 0033105-MSD1:JAO
Misc Info : MW-3MSD
Comment :
Method : /chem/5972hp71.i/DF100331A71.b/W8260-B-25MLv14.m
Meth Date : 07-Apr-2010 16:03 ron Quant Type: ISTD
Cal Date : 23-MAR-2010 16:53 Cal File: 0C23006-CAL671.d
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS897O.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	11.073	11.069	(1.000)	402489	125.000	
*	2 Chlorobenzene-d5	117	13.211	13.216	(1.000)	360167	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.719	14.714	(1.000)	151096	125.000	
$	4 Dibromofluoromethane	113	10.482	10.478	(0.947)	134918	124.163	5.0
$	5 1,2-Dichloroethane-d4	65	10.807	10.812	(0.976)	106273	131.382	5.3
$	6 Toluene-d8	98	12.246	12.241	(0.927)	417198	107.022	4.3
$	7 Bromofluorobenzene	95	13.940	13.936	(0.947)	198363	114.998	4.6
	8 Dichlorodifluoromethane	85	4.138	4.143	(0.374)	174908	121.740	4.9
	9 Chloromethane	50	4.640	4.635	(0.419)	220973	190.098	7.6(R)
	10 Vinyl Chloride	62	4.916	4.921	(0.444)	175364	200.840	8.0(R)
	11 Bromomethane	94	5.783	5.788	(0.522)	44025	97.8939	3.9
	12 Chloroethane	64	6.029	6.034	(0.544)	100130	196.027	7.8(R)
	13 Trichlorofluoromethane	101	6.571	6.576	(0.593)	306598	150.177	6.0
	14 Acrolein	56	7.448	7.443	(0.673)	46068	1620.67	65
	17 1,1-Dichloroethene	96	7.596	7.601	(0.686)	113329	143.789	5.8

4.7.10

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MSD171.d
Report Date: 07-Apr-2010 16:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
18 Acetone	43	7.694	7.689	(0.695)	89411	898.961	36
19 Iodomethane	142	7.891	7.886	(0.713)	115472	189.273	7.6(R)
20 Carbon disulfide	76	8.000	8.005	(0.722)	369041	145.468	5.8
22 3-Chloropropene	39	8.206	8.212	(0.741)	194293	205.748	8.2(R)
23 Acetonitrile	41	8.206	8.212	(0.741)	263845	199.595	8.0(R)
25 Methylene Chloride	84	8.433	8.428	(0.762)	101149	153.340	6.1
26 Acrylonitrile	53	8.807	8.803	(0.795)	205497	1682.55	67
28 trans-1,2-Dichloroethene	96	8.798	8.793	(0.794)	133366	148.311	5.9
31 Vinyl acetate	43	9.359	9.354	(0.845)	513906	322.857	13
32 1,1-Dichloroethane	63	9.379	9.374	(0.847)	569303	342.650	14(R)
33 Chloroprene	53	9.458	9.453	(0.854)	285978	160.964	6.4
34 2-butanone	43	9.990	9.985	(0.902)	134083	950.293	38(R)
35 2,2-Dichloropropane	77	10.009	10.005	(0.904)	197777	137.750	5.5
36 cis-1,2-Dichloroethene	96	10.029	10.024	(0.906)	594901	650.913	26(R)
37 Propionitrile	54	10.098	10.093	(0.912)	356491	8578.79	340
38 Methacrylonitrile	41	10.236	10.231	(0.924)	444452	1824.16	73
39 Bromochloromethane	128	10.275	10.271	(0.928)	37851	146.952	5.9
40 Chloroform	83	10.325	10.320	(0.932)	229397	150.887	6.0
42 1,1,1-Trichloroethane	97	10.512	10.507	(0.949)	248949	137.155	5.5
44 1,1-dichloropropene	75	10.650	10.655	(0.962)	161505	140.554	5.6
45 Isobutyl alcohol	43	10.679	10.675	(0.964)	109880	9994.01	400(R)
46 Carbon Tetrachloride	117	10.650	10.655	(0.962)	189316	127.585	5.1
47 Benzene	78	10.837	10.842	(0.979)	374540	146.994	5.9
48 1,2-Dichloroethane	62	10.876	10.881	(0.982)	147831	141.637	5.7
49 Trichloroethene	130	11.369	11.374	(1.027)	138662	178.895	7.2
51 1,2-Dichloropropane	63	11.566	11.561	(1.044)	113827	161.695	6.5
52 Methylmethacrylate	69	11.556	11.551	(1.044)	355514	1586.99	63
54 Dibromomethane	174	11.674	11.670	(1.054)	44394	124.890	5.0
55 Bromodichloromethane	83	11.753	11.758	(1.061)	155017	146.841	5.9
57 cis-1,3-Dichloropropene	75	12.069	12.064	(1.090)	148426	148.110	5.9
58 4-Methyl-2-pentanone	43	12.118	12.113	(0.917)	352386	825.483	33(R)
59 Toluene	92	12.285	12.290	(0.930)	295884	124.866	5.0
60 Ethylmethacrylate	69	12.403	12.399	(0.939)	823629	1364.83	55
61 trans-1,3-Dichloropropene	75	12.433	12.428	(0.941)	132203	122.700	4.9
62 1,1,2-Trichloroethane	97	12.571	12.566	(0.952)	68081	124.020	5.0
63 2-hexanone	43	12.660	12.655	(0.958)	256202	889.667	36(R)
64 1,3-Dichloropropane	76	12.689	12.684	(0.960)	109404	130.894	5.2
65 Tetrachloroethene	164	12.660	12.665	(0.958)	98783	126.354	5.1
66 Dibromochloromethane	129	12.847	12.842	(0.972)	83738	109.142	4.4
69 Chlorobenzene	112	13.231	13.236	(1.001)	350749	116.515	4.7
70 Ethylbenzene	106	13.251	13.246	(1.003)	209926	120.521	4.8
71 1,1,1,2-Tetrachloroethane	131	13.271	13.266	(1.004)	97637	116.328	4.7
72 m,p-Xylene	106	13.310	13.315	(1.007)	525063	242.205	9.7
73 m,p-Xylene (part of total)	106	13.310	13.315	(1.007)	525063	242.205	9.7
74 o-Xylene	106	13.576	13.581	(1.028)	250376	123.705	4.9
75 o-Xylene (part of total)	106	13.576	13.581	(1.028)	250376	123.705	4.9
76 Styrene	104	13.586	13.581	(1.028)	359720	116.350	4.7

Data File: /chem/5972hp71.i/DF100331A71.b/0033105-MSD171.d
Report Date: 07-Apr-2010 16:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77 Bromoform	173	13.773	13.778	(1.042)	51993	111.621	4.5
79 1,1,2,2-Tetrachloroethane	83	13.990	13.985	(0.950)	73354	123.199	4.9
81 1,2,3-Trichloropropane	110	14.049	14.044	(1.063)	24533	119.388	4.8
80 trans-1,4-dichloro-2-butene	53	14.009	14.005	(1.060)	131712	551.211	22
92 1,3-Dichlorobenzene	146	14.679	14.675	(0.997)	201181	106.122	4.2
93 1,4-Dichlorobenzene	146	14.738	14.734	(1.001)	195731	106.819	4.3
95 1,2-Dichlorobenzene	146	15.024	15.029	(1.021)	162326	108.965	4.4
97 1,2,4-Trichlorobenzene	180	16.374	16.369	(1.112)	159155	105.316	4.2
98 Hexachlorobutadiene	225	16.443	16.438	(1.117)	77637	104.526	4.2
99 Naphthalene	128	16.669	16.665	(1.133)	170160	113.734	4.5
M 102 Xylene (total)	106				775440	383.127	15

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

SW-846 METHOD 8260B VOLATILE ORGANIC DATA REVIEW SUMMARY

Draper Aden Associates performed a limited review of the analytical results for the March 17-18, 2010 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, a Division of Liberty Analytical, (CompuChem), 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, surrogate spike, matrix spike and matrix spike duplicate (MS/MSD), 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 criteria were met. Preservation criteria were met, except the samples were received in the laboratory at 0.4°C. The samples were not frozen and were received at less than 6°C as per SW-846 and 40 CFR and no data qualification was required.

Method 8260B

The original certificate of analysis for Method 8260B was received on April 13, 2010. 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 (LOQ), 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. Acrolein was not detected in any sample and the LOQ for acrolein was qualified as estimated for all sample results.

Continuing calibration verification criteria were met except for dichlorodifluoromethane, acrolein and bromomethane which exceeded the continuing calibration verification percent drift/difference (%D) requirements (<±25%D). Where acrolein, bromomethane and dichlorodifluoromethane were not detected at or above the detection limit or LOQ, the LOQs for these three target analytes were qualified as estimated, "J" to note that the LOQ was estimated due to this QC deficiency (see data validation report). For dichlorodifluoromethane detected below the LOQ in MW-9, MW-12 and MW-17, the result remains qualified as estimated. The remaining calibration requirements were met.

Acetone and toluene were reported in the trip blank. Acetone, methylene chloride, toluene and naphthalene were reported in the laboratory method blanks. Detected results less than the LOQ or less than five times the blank contamination concentration for these four analytes were attributed to the laboratory contamination and validated as "U" (see data validation summary).

Bromomethane recovered low in the LCS (62%) and MS (65%). Bromomethane was not detected at or above the detection limit or LOQ. Results for bromomethane were qualified as estimated, "UJ" to note that bromomethane was not detected in any sample and the LOQ was estimated due to this QC deficiency (see data validation report). Vinyl chloride recovered high in the LCS (149 %) and MSD (156%) and detected results for vinyl chloride greater than the detection limit (DL) were considered biased high and qualified as estimated, "J" (see data validation report).

Samples MW-2 and MW-12 required dilution 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). Both the undiluted and diluted results were reported by the laboratory.

The accuracy of the laboratory computer generated result was verified for 10% of the data.

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 method detection limit or 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 1003173
NC Certification No 79

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 the sample locations?	☑ YES ☐ NO
4.	Did the laboratory analyte list correspond to the project specific analyte list?	☑ YES ☐ NO
5.	Were the 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 the 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 $\leq 6^{\circ}C$ 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? ☑ YES ☐ NO
2. Was there documentation of the injection of 5-50 ng BFB? ☑ YES ☐ NO
3. Were the ion abundance criteria met? ☑ YES ☐ NO
4. Were calibration, blank, and sample analyses performed within 12 hours of tuning? ☑ YES ☐ 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? ☑ YES ☐ NO
2. Were the target analytes included in the ICAL? (ICAL Summary) ☑ YES ☐ NO
3. Did the ICALs consist of a minimum of 5 calibration levels? ☑ YES ☐ NO
4. Was the lowest concentration calibration standard at or below the associated MCL, regulatory compliance, or action limit? ☑ YES ☐ NO
5. Were any calibration levels removed from the curve that would negatively influence the data integrity? ☐ YES ☑ NO
6. Was the calibration curve developed using the same purge volume used for sample analysis? ☑ YES ☐ NO
7. 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)
8. Were 8260B CCC criteria met? (%RSD ≤ 30%) ☑ YES ☐ NO
   - 1,1-dichloroethene
   - chloroform
   - 1,2-dichloropropane
   - toluene
   - ethylbenzene
   - vinyl chloride
9. Was each target analyte %RSD ≤ 15% (excluding CCCs)? ☐ YES ☑ NO
10. Was the correlation coefficient >0.99 for target analytes with ≥15 % RSD? ☑ YES ☐ NO

Method Validation Performance Criteria:

1. Did target analytes and surrogates have % RSDs ≤ 15% and / or >0.99 correlation coefficient? ☑ YES ☐ NO
   (Evaluate RRFs < 0.05 for potential problems.)

Comments: 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?
   (%Drift or % Difference (%D) within ± 20%) ☑ YES ☐ NO
   - 1,1-dichloroethene
   - chloroform
   - 1,2-dichloropropane
   - toluene
   - ethylbenzene
   - vinyl chloride

Method Validation Performance Criteria:

1. Did the target analytes and system monitoring analytes (surrogates) have the % D within ± 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 the target analytes and system monitoring analytes (surrogates) have % Ds within ± 25.0%? ☑ YES ☐ NO
2. Three analytes may fail to meet maximum % D as long as the % D is w/in ± 40.0%. Did the CV meet this criteria? ☐ YES ☑ NO

Comments: For several analytes, the %D exceeded +/-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: *methylene chloride, naphthalene, acetone, toluene*
5. Was the level of blank contamination less than 5% of the MCL associated with the analyte? ☑ 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 (NA)

Comments: Acetone and toluene were reported in the method blank and trip blank. Methylene chloride and naphthalene were also reported in the method blank. Detected results less than the LOQ for these four analytes were attributed to the laboratory contamination and validated as "U" (see data validation summary).

H. SURROGATE CRITERIA:

SW-846 Criteria:

1. Were the following surrogates used? See comment
   - dibromofluoromethane (86%-118%)
   - 4-bromofluorobenzene (86%-115%)
   - toluene-d_8 (88%-110%)
   - 1,2-dichloroethane-d_4 (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? ☑ NA ☐ YES ☐ NO

Comments: The laboratory substituted bromofluorobenzene for 4-bromofluorobenzene as allowed by the method. Surrogate criteria were met.

I. MATRIX SPIKE, MATRIX SPIKE DUPLICATE CRITERIA:

(MS/MSD Requirements - CLP Guidelines)

Analyte	*% R Water*	*RPD Water*
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? ☑ 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? See comment
7. Were any analytes flagged as estimated concentrations? ☐ YES ☑ NO
8. List analytes flagged as estimated concentrations: See comment

Comments Bromomethane recovered low in the MS (65%) and LCS and results for bromomethane were qualified as estimated. Vinyl chloride recovered high in the MSD (156%) and detected results for vinyl chloride greater than the detection limit were considered biased high and qualified as estimated. The remaining 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 the 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 analytes flagged as estimated concentrations: See comment

Comments: Bromomethane recovered low in the LCS (62%) and all results for bromomethane were qualified as estimated. Vinyl chloride recovered high in the LCS (149 %) and detected results for vinyl chloride greater than the detection limit were considered biased high and qualified as estimated. The remaining LCS criteria were met.

K. INTERNAL STANDARDS CRITERIA:

1. Were the following internal standards used? ☑ YES ☐ NO
   - fluorobenzene
   - chlorobenzene-d_5
   - 1,4-dichlorobenzene-d_4
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 the 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 ± 30%?
3. Were the 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).where applicable*. Validation of this data set is limited to the items detailed in this report.

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Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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This Report has been subjected to technical and quality review by:

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Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acrolein	MW-12	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Benzene	MW-12	0.23	J	0.23	J	0.5	1	Result < LOQ.
Chlorobenzene	MW-12	0.23	J	0.23	J	0.5	1	Result < LOQ.
Chloroethane	MW-12	6.5		6.5		0.5	1	No action taken.
Chloroform	MW-12	0.29	J	0.29	J	0.5	1	Result < LOQ.
1,2-Dichlorobenzene	MW-12	0.15	J	0.15	J	0.5	1	Result < LOQ.
1,4-Dichlorobenzene	MW-12	1.5		1.5		0.5	1	No action taken.
Dichlorodifluoromethane	MW-12	0.14	J	0.14	J	0.5	1	Result < LOQ. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-12	19		19		0.5	1	No action taken.
1,2-Dichloroethane	MW-12	0.4	J	0.4	J	0.5	1	Result < LOQ.
1,1-Dichloroethene	MW-12	0.27	J	0.27	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-12	41		41		0.5	1.7	No action taken.
trans-1,2-Dichloroethene	MW-12	0.54		0.54		0.5	1	No action taken.
1,2-Dichloropropane	MW-12	0.77		0.77		0.5	1	No action taken.
Bromomethane	MW-12	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-12	0.34	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Tetrachloroethene	MW-12	2.8		2.8		0.5	1	No action taken.
Toluene	MW-12	0.056	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
1,1,1-Trichloroethane	MW-12	0.082	J	0.082	J	0.5	1	Result < LOQ.
Trichloroethene	MW-12	3.9		3.9		0.5	1	No action taken.
Vinyl chloride	MW-12	1.7		1.7	J	0.5	1	LCS/MSD recovered high (149/156%).

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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ◆ Surveying ◆ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acetone	MW-17	1.7	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-17	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Chloroform	MW-17	0.059	J	0.059	J	0.5	1	Result < LOQ.
Dichlorodifluoromethane	MW-17	0.038	J	0.038	J	0.5	1	Result < LOQ. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-17	1		1		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-17	1.9		1.9		0.5	1	No action taken.
Bromomethane	MW-17	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Naphthalene	MW-17	0.16	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.18 ug/l).
Tetrachloroethene	MW-17	1.5		1.5		0.5	1	No action taken.
Toluene	MW-17	0.05	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
Trichloroethene	MW-17	0.43	J	0.43	J	0.5	1	Result < LOQ.

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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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acetone	MW-2	1.3	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-2	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Chloroform	MW-2	0.059	J	0.059	J	0.5	1	Result < LOQ.
Dichlorodifluoromethane	MW-2	0.5	U	U	J	0.5	1	Analyte not detected. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-2	56		56		0.5	16.7	No action taken.
1,1-Dichloroethene	MW-2	89		89		0.5	16.7	No action taken.
cis-1,2-Dichloroethene	MW-2	0.26	J	0.26	J	0.5	1	Result < LOQ.
Bromomethane	MW-2	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-2	0.38	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Tetrachloroethene	MW-2	4.8		4.8		0.5	1	No action taken.
Toluene	MW-2	0.054	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
1,1,1-Trichloroethane	MW-2	470		470		0.5	16.7	No action taken.
1,1,2-Trichloroethane	MW-2	0.092	J	0.092	J	0.5	1	Result < LOQ.
Trichloroethene	MW-2	0.54		0.54		0.5	1	No action taken.
Vinyl chloride	MW-2	0.55		0.55	J	0.5	1	LCS/MSD recovered high (149/156%).

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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ◆ Surveying ◆ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acrolein	MW-3	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Chloroethane	MW-3	2.6		2.6		0.5	1	No action taken.
Dichlorodifluoromethane	MW-3	0.5	U	U	J	0.5	1	Analyte not detected. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-3	7.8		7.8		0.5	1	No action taken.
1,2-Dichloroethane	MW-3	0.11	J	0.11	J	0.5	1	Result < LOQ.
1,1-Dichloroethene	MW-3	0.072	J	0.072	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-3	21		21		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-3	0.29	J	0.29	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-3	0.31	J	0.31	J	0.5	1	Result < LOQ.
Bromomethane	MW-3	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-3	0.21	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Naphthalene	MW-3	0.23	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.18 ug/l).
Tetrachloroethene	MW-3	0.13	J	0.13	J	0.5	1	Result < LOQ.
Toluene	MW-3	0.081	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
Trichloroethene	MW-3	2.3		2.3		0.5	1	No action taken.
Vinyl chloride	MW-3	0.23	J	0.23	J	0.5	1	Result < LOQ. LCS/MSD recovered high (149/156%).
Method: *8260B*								
Acetone	MW-8	2.4	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-8	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Dichlorodifluoromethane	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-8	0.057	J	0.057	J	0.5	1	Result < LOQ.
Bromomethane	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-8	0.047	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Toluene	MW-8	0.06	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
1,1,1-Trichloroethane	MW-8	0.1	J	0.1	J	0.5	1	Result < LOQ.

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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *8260B*								
Acetone	MW-9	0.98	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Acrolein	MW-9	5	U	U	J	5	1	Analyte not detected. Sample pH <2. CV %D >+/-25% (27%).
Benzene	MW-9	3		3		0.5	1	No action taken.
Chlorobenzene	MW-9	0.41	J	0.41	J	0.5	1	Result < LOQ.
Chloroethane	MW-9	3.8		3.8		0.5	1	No action taken.
1,4-Dichlorobenzene	MW-9	1.2		1.2		0.5	1	No action taken.
Dichlorodifluoromethane	MW-9	0.43	J	0.43	J	0.5	1	Result < LOQ. CV %D >+/-25% (-26%).
1,1-Dichloroethane	MW-9	13		13		0.5	1	No action taken.
1,2-Dichloroethane	MW-9	0.065	J	0.065	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-9	8.2		8.2		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-9	0.34	J	0.34	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-9	0.28	J	0.28	J	0.5	1	Result < LOQ.Result < LOQ.
Bromomethane	MW-9	0.5	U	U	J	0.5	1	Analyte not detected. LCS/MS recovered low. CV %D >+/-25% (-40%).
Methylene chloride	MW-9	0.47	J	U		0.5	1	Result < LOQ. Blank contamination in the method blank (0.41 ug/l).
Tetrachloroethene	MW-9	0.36	J	0.36	J	0.5	1	Result < LOQ.
Toluene	MW-9	0.1	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).
Trichloroethene	MW-9	1.2		1.2		0.5	1	No action taken.
Vinyl chloride	MW-9	1.9		1.9	J	0.5	1	LCS/MSD recovered high (149/156%).
Method: *SOM01.2*								
Benzene	S-2	1.1	J	1.1	J	5	1	Result < CRQL.
Chlorobenzene	S-2	0.58	J	0.58	J	5	1	Result < CRQL.
Chloroethane	S-2	16		16		5	1	No action taken.
1,4-Dichlorobenzene	S-2	2.2	J	2.2	J	5	1	Result < CRQL.
1,1-Dichloroethane	S-2	2	J	2	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-2	0.96	J	0.96	J	5	1	Result < CRQL.

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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/18/2010

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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, Cary, NC								
Method: *SOM01.2*								
1,1-Dichloroethane	S-4	1.4	J	1.4	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-4	3.4	J	3.4	J	5	1	Result < CRQL.
Methylene chloride	S-4	2.2	J	2.2	J	5	1	Result < CRQL.
Trichloroethene	S-4	0.52	J	0.52	J	5	1	Result < CRQL.
Method: *SOM01.2*								
Dichlorodifluoromethane	S-5	0.43	J	0.43	J	5	1	Result < CRQL.
Methylene chloride	S-5	1.5	J	1.5	J	5	1	Result < CRQL.
1,1,1-Trichloroethane	S-5	0.71	J	0.71	J	5	1	Result < CRQL.
Method: *8260B*								
Acetone	TRIP BLANK	1.3	J	U		2.5	1	Result < LOQ. Blank contamination in the trip blank (0.1.3 ug/l) and method blank (0.78 ug/l).
Toluene	TRIP BLANK	0.065	J	U		0.5	1	Result < LOQ. Blank contamination in the trip blank (0.065 ug/l) and method blank (0.096 ug/l).

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.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Lancaster Laboratories

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Type I Data Package

Prepared for:

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

Project: Watauga County, NC
Water Samples
Collected on 03/18/10

SDG# WAT11

GROUP	SAMPLE NUMBERS
1186836	5932646-5932652

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Luz C. Torres **Date** 4/8/10

Any questions or concerns you might have regarding this data package should be directed to your client representative, Barbara Weyandt, at Ext. 1576.

Total Number of Pages 224

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Sample Reference List for SDG Number WAT11 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
5932646	WRES1	RES-1 Grab Water Sample February 2010 Semiannual Assess. Monitoring Event
5932647	WHGPR	H&G Produce Grab Water Sample February 2010 Semiannual Assess. Monitoring Event
5932648	WRE15	RES-15 Grab Water Sample February 2010 Semiannual Assess. Monitoring Event
5932649	WRE16	RES-16 Grab Water Sample February 2010 Semiannual Assess. Monitoring Event
5932650	WBREM	BREMCO Grab Water Sample February 2010 Semiannual Assess. Monitoring Event
5932651	WRES2	RES-2 Grab Water Sample February 2010 Semiannual Assess. Monitoring Event
5932652	WCLTB	Trip Blank Water Sample February 2010 Semiannual Assess. Monitoring Event

Acct # 11200 Grp # 1186836 Sample # 5932646-52

CHAIN OF CUSTODY RECORD

JLF 2-24-2010

XFC 2-1-10

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:** (828) 264-5305 **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:** February 2010 Semiannual Assess. Monitoring Event **DAA JN:** 6520-39 **Lab JN:**	Project Specific (PS) or Batch (B) QC: ☑ PS ☐ B Sample Collection for Project Complete? (See Note 1) ☑ YES ☐ NO Carrier: Tracking Number:

Box 1: Matrix
SW Surface Water, GW Groundwater, L Leachate, S Soil, T Trip Blank, E Equipment Blank, P Product, O Other

Box 2: Preservative
A HCL, B HNO_3, C H_2SO_4, D $Na_2S_2O_3$, 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 5: Sample Container Type
P Plastic, V VOA, AG Amber Glass, CG Clear Glass

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

GENERAL NOTES:
1. Level 1 Deliverables.
2. Report quantitation limit, and estimated results "J" flag.
3. VA Drinking Water certification okay through 7/31/2010.
4. Note NC Certification (DW) on lab results.

JLF 2.24.2010

Sample ID	Date: 2010	Time	Box 1: Matrix	Number of Bottles	Volatiles - 524.2					
RES-1	3/18	0915	GW	3	X				2239 Hwy 421 S. (Bolick)	Well reference # 1
H & G Produce	3/18	1010	GW	3	X				230 Cabbage Row (Hollar & Greene)	Well reference # 6
RES-15	3/18	1040	GW	3	X				2711 Hwy 421 S (Greer)	Well reference # 15
RES-16	3/18	1025	GW	3	X				2737 Hwy 421 S (Williamson)	Well reference # 16
BREMCO	3/18	0950	GW	3	X				2491 Hwy 421 S. (Bremco)	Well reference # 5. (Use Hydrasleeve for collection)
RES-2	3/18	0930	GW	3	X				2347 Hwy. 421 S. (Bolick Rental)	Well Reference # 2
TRIP BLANK	3/3		T	2	X					

CJB 3/18/10

Clients Special Instructions: See General Notes.

Received by lab in Good Condition ✓ Yes ___ No Custody Seal Intact ✓ Yes ___ No Temperature upon arrival 1+2°C Received on Ice ✓ Yes ___ No
Describe problems, if any:

Sampler Name (Print): Chris Branscome	Date: 03/16/10	#1 Relinquished by (Signature): Chris Branscome	Date: 03/18/10	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Chris Branscome	Time: 2000	Company Name: Draper Aden Assoc	Time: 1700	Company Name:	Time:	
Sampler Name (Print): Dale Slaughter	Date: 3/16/10	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date: 3/19/10	30 DYS ORG/6 MTHS INORG
Sampler Signature: Dale Slaughter	Time: 2000	Company Name:	Time:	Company Name: LLI	Time: 950	

\\draperaden.net\DAA\Projects\ADM\DIVISIONS\ENVR\Templates\BBURG ETEAM TEMP\Field Events\Watauga\2005 CompuChem\COC - CoreMW's Surf & Res .XLS

OK JLF 2/24/2010

XFC 2/01/10

1/3

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
524.2	Volatile Organics					
	Dichlorodifluoromethane	ND	0.5	ug/L	08/16/01	jdn
	Chloromethane	ND	0.5	ug/L	08/16/01	jdn
	Vinyl chloride	ND	0.5	ug/L	08/16/01	jdn
	Bromomethane	ND	0.5	ug/L	08/16/01	jdn
	Chloroethane	ND	0.5	ug/L	08/16/01	jdn
	Trichlorofluoromethane	ND	0.5	ug/L	08/16/01	jdn
	1,1-Dichloroethene	ND	0.5	ug/L	08/16/01	jdn
	Methylene chloride	ND	0.5	ug/L	08/16/01	jdn
	trans-1,2-Dichloroethene	ND	0.5	ug/L	08/16/01	jdn
	1,1-Dichloroethane	ND	0.5	ug/L	08/16/01	jdn
	2,2-Dichloropropane	ND	0.5	ug/L	08/16/01	jdn
	cis-1,2-Dichloroethene	ND	0.5	ug/L	08/16/01	jdn
	Bromochloromethane	ND	0.5	ug/L	08/16/01	jdn
	Chloroform	ND	0.5	ug/L	08/16/01	jdn
	1,1,1-Trichloroethane	ND	0.5	ug/L	08/16/01	jdn
	1,1-Dichloropropene	ND	0.5	ug/L	08/16/01	jdn
	Carbon tetrachloride	ND	0.5	ug/L	08/16/01	jdn
	Benzene	ND	0.5	ug/L	08/16/01	jdn
	1,2-Dichloroethane	ND	0.5	ug/L	08/16/01	jdn
	Trichloroethene	ND	0.5	ug/L	08/16/01	jdn
	1,2-Dichloropropane	ND	0.5	ug/L	08/16/01	jdn
	Dibromomethane	ND	0.5	ug/L	08/16/01	jdn
	Bromodichloromethane	ND	0.5	ug/L	08/16/01	jdn
	cis-1,3-Dichloropropene	ND	0.5	ug/L	08/16/01	jdn
	Toluene	ND	0.5	ug/L	08/16/01	jdn
	trans-1,3-Dichloropropene	ND	0.5	ug/L	08/16/01	jdn
	1,1,2-Trichloroethane	ND	0.5	ug/L	08/16/01	jdn
	Tetrachloroethene	ND	0.5	ug/L	08/16/01	jdn
	1,3-Dichloropropane	ND	0.5	ug/L	08/16/01	jdn
	Dibromochloromethane	ND	0.5	ug/L	08/16/01	jdn
	1,2-Dibromoethane (EDB)	ND	0.5	ug/L	08/16/01	jdn
	Chlorobenzene	ND	0.5	ug/L	08/16/01	jdn
	1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	08/16/01	jdn
	Ethylbenzene	ND	0.5	ug/L	08/16/01	jdn
	m&p-Xylenes	ND	0.5	ug/L	08/16/01	jdn
	Xylenes (total)	ND	0.5	ug/L	08/16/01	jdn
	o-Xylene	ND	0.5	ug/L	08/16/01	jdn
	Styrene	ND	0.5	ug/L	08/16/01	jdn
	Bromoform	ND	0.5	ug/L	08/16/01	jdn
	Isopropylbenzene	ND	0.5	ug/L	08/16/01	jdn
	1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/16/01	jdn
	Bromobenzene	ND	0.5	ug/L	08/16/01	jdn
	1,2,3-Trichloropropane	ND	0.5	ug/L	08/16/01	jdn
	n-Propylbenzene	ND	0.5	ug/L	08/16/01	jdn
	2-Chlorotoluene	ND	0.5	ug/L	08/16/01	jdn
	1,3,5-Trimethylbenzene	ND	0.5	ug/L	08/16/01	jdn
	4-Chlorotoluene	ND	0.5	ug/L	08/16/01	jdn
	tert-Butylbenzene	ND	0.5	ug/L	08/16/01	jdn

Description = Dry Wgt.

To [redacted] Lancaster
Laboratories
Samples: 524.2
OCT 3-15-05

2/3

TEST METHOD						
	1,2,4-Trimethylbenzene	ND	0.5	ug/L	08/16/01	jdh
	sec-Butylbenzene	ND	0.5	ug/L	08/16/01	jdh
	1,3-Dichlorobenzene	ND	0.5	ug/L	08/16/01	jdh
	p-Isopropyltoluene	ND	0.5	ug/L	08/16/01	jdh
	1,4-Dichlorobenzene	ND	0.5	ug/L	08/16/01	jdh
	n-Butylbenzene	ND	0.5	ug/L	08/16/01	jdh
	1,2-Dichlorobenzene	ND	0.5	ug/L	08/16/01	jdh
	1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	08/16/01	jdh
	1,2,4-Trichlorobenzene	ND	0.5	ug/L	08/16/01	jdh
	Hexachlorobutadiene	ND	0.5	ug/L	08/16/01	jdh
	Naphthalene	ND	0.5	ug/L	08/16/01	jdh
	1,2,3-Trichlorobenzene	ND	0.5	ug/L	08/16/01	jdh

1 Description = Dry Wgt.

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Draper Aden

Date of Receipt: 3/19/10

Time of Receipt: 450

Source Code: 60-1

Unpacker Emp. No.: 2308

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	0429951	1.9°C	TB	WI	Y	B	
2	↓	3.1°C	↓	↓	↓	↓	
3	↓	2.8°C	↓	↓	↓	↓	
4	↓	5.2°C	↓	↓	↓	↓	
5	↓	1.2°C	↓	↓	↓	↓	
6	↓	1.1°C	↓	↓	↓	↓	

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Project Closed Bedford County Landfill - Received 10 total containers for Samples MW-1 (unspiked) and MW-6 (2 ambers + 8 vials) MW-39 time = 1435

Received 6 total Containers for MW-45 (6 vials)

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[signature]	3/19/10	1335	Unpacking 1 to storage
Kristin Zingle	3-19-10	1450	Place in Storage or Entry
			Entry
			Entry

Issued by Dept. 6042 Management
2174.05

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Draper Aden

Date of Receipt: 3/19/10

Time of Receipt: 950

Source Code: 60-1

Unpacker Emp. No.: 2308

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	042995I	3.4 uc	TB	WI	Y	B	
2	↓	2.0 uc	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[signature]	3/19/10	1335	Unpacking to Storage
Kristin Zigler	3-19-10	1450	Place in Storage or Entry
			Entry
			Entry

Issued by Dept. 6042 Management
2174.05

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log
(continuation page)

Client/Project: Draper Aden

Date of Receipt: 3/19/10

Unpacker Emp. No.: 2308

Additional Paperwork Discrepancy/Unpacking Problems:

1 vial of APSP-01 date illegible and time = 090
only received 4 tripblanks for closed Bedford county landfill project

Project Berkeley Landfill ~ 1 vial of MW-5A MSD time is
samplers ~~initials~~ name @ WRM 3/19/10, 1 vial of MW-12 time looks like 1135

Project Watauga county Landfill ~ 1 vial of RES-16 date = 3/25/10

Project Livingston Landfill ~ 1 vial of MW-15 MSD date looks
like 3/6/10, only received 2 tripblanks for project

WAT11 0007

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03648 EPA 524.2 Master

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

Lancaster Laboratories

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

March 31, 2010

Project: Watauga County, NC

Samples arrived at the laboratory on Friday, March 19, 2010. The group number for this submittal is 1186836.

Client Sample Description	Lancaster Labs (LLI) #
RES-1 Grab Water Sample	5932646
H&G Produce Grab Water Sample	5932647
RES-15 Grab Water Sample	5932648
RES-16 Grab Water Sample	5932649
BREMCO Grab Water Sample	5932650
RES-2 Grab Water Sample	5932651
Trip Blank Water Sample	5932652

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Draper Aden Associates, Inc.	Attn: Janet Frazier
1 COPY TO	Data Package Group	

WAT11 0889

Lancaster Laboratories

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

Respectfully Submitted,

Marla S. Lord
Senior Specialist

WAT11 0010

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

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. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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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Wn11 0811

Lancaster Laboratories

Sample Description: RES-1 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932646
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:15 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES1 SDG#: WAT11-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 0812

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Lancaster Laboratories

Sample Description: RES-1 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932646
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:15 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES1 SDG#: WAT11-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 18:04	Jason M Long	1

WAT11 8813

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Analysis Report

Lancaster Laboratories

Sample Description: H&G Produce Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932647
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:10 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WHGPR SDG#: WAT11-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 0814

*=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 Description: H&G Produce Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932647
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:10 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WHGPR SDG#: WAT11-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 18:26	Jason M Long	1

WAT11 0015

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Lancaster Laboratories

Sample Description: RES-15 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932648
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:40 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE15 SDG#: WAT11-03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	N.D.		0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.		0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.2	J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1

WAT11 8816

*=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 Description: RES-15 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932648
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:40 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE15 SDG#: WAT11-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 18:47	Jason M Long	1

WAT11 6817

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Lancaster Laboratories

Sample Description: RES-16 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932649
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:25 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE16 SDG#: WAT11-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	N.D.		0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.		0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	0.3	J	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.1	J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1

WAT11 0813

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Lancaster Laboratories

Sample Description: RES-16 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932649
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 10:25 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRE16 SDG#: WAT11-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 19:09	Jason M Long	1

WAT11 8819

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Lancaster Laboratories

Sample Description: BREMCO Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932650
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:50 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WBREM SDG#: WAT11-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	0.5	J	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	0.2	J	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	0.3	J	0.1	0.5	1
03648	Chloroethane	75-00-3	11		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	2.3		0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	0.9		0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	28		1.0	5.0	10
03648	1,2-Dichloroethane	107-06-2	0.2	J	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	1.4		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	6.2		0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	0.2	J	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	0.2	J	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	1.5		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.4	J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1

WAT11 0026

*=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 Description: BREMCO Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932650
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:50 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WBREM SDG#: WAT11-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
03648	Trichloroethene	79-01-6	0.9		0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.		0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.		0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
03648	Vinyl Chloride	75-01-4	0.5	J	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.		0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.		0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 19:30	Jason M Long	1
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 19:52	Jason M Long	10

WAT11 0021

*=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 Description: RES-2 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932651
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:30 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES2 SDG#: WAT11-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	1	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 0622

*=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 Description: RES-2 Grab Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932651
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 03/18/2010 09:30 by CB

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WRES2 SDG#: WAT11-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 20:13	Jason M Long	1

WAT11 0023

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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

Lancaster Laboratories

Sample Description: Trip Blank Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932652
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 02/03/2010

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WCLTB SDG#: WAT11-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1

WAT11 0824

*=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 Description: Trip Blank Water Sample
February 2010 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 5932652
LLI Group # 1186836
NC

Project Name: Watauga County, NC

Collected: 02/03/2010

Account Number: 11200

Submitted: 03/19/2010 09:50
Reported: 03/31/2010 at 12:41
Discard: 05/01/2010

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

WCLTB SDG#: WAT11-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	ug/l	
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1

General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G100842AA	03/25/2010 20:35	Jason M Long	1

WAT11 0025

*=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#: WAT11

LANCASTER LABORATORIES
VOLATILES BY GC/MS

SAMPLE NUMBER(S) :

		Matrix	
LL #'s	Sample Code	Water	Comments
5932646	WRES1	X	
5932647	WHGPR	X	
5932648	WRE15	X	
5932649	WRE16	X	
5932650	WBREM	X	
5932650	WBREMDL	X	10 X Dilution
5932651	WRES2	X	
5932652	WCLTB	X	Client Blank

LABORATORY SUBMITTED QC:

VBLKG41	VBLKG41	X	Method Blank
LFBG41	LFBG41	X	Lab Fortified Blank

SAMPLE PREPARATION:

No sample preparation was necessary for the VOA fraction.

ANALYSIS:

No problems were encountered during the analysis of these samples.

WAT11 8828

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.

All QC is within specifications.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Case Narrative reviewed and approved by:

Date 4/7/10

Dana M. Kaufman
Manager, Data Deliverables

WAT11 0829

QC Summary

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKG41

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKG41

Sample wt/vol: 25.00(g/mL) mL Lab File ID: HP16334.i/10mar25a.b/gm25b21.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/25/10

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

WAT11 0031

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKG41

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKG41

Sample wt/vol: 25.00(g/mL) mL Lab File ID: HP16334.i/10mar25a.b/gm25b21.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/25/10

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

WAT11 0032

2A

WATER VOLATILE SURROGATE RECOVERY

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: WAT11

	LL #'s	EPA SAMPLE NO.	S1 (BFB) #	S2 (DCB) #	TOT OUT
01	5932646	WRES1	98	106	0
02	5932647	WHGPR	99	107	0
03	5932648	WRE15	99	106	0
04	5932649	WRE16	100	108	0
05	5932650	WBREM	101	111	0
06	5932650	WBREMDL	99	108	0
07	5932651	WRES2	99	108	0
08	5932652	WCLTB	100	108	0
09	VBLKG41	VBLKG41	97	106	0
10	LFBG41	LFBG41	105	110	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 Method 524.2 LFB Sample Summary

File: gm25l21.d
Inst: HP16334
Dilution Factor: 1.0

Injected: 03/25/10 at 17:11
Sample: LFBG41

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: G100842AA

COMPOUND NAME	SPIKE LEVEL	LFB CONC UG/L	LFB REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	2.00	1.49	75	70-130	YES
Chloromethane	2.00	2.24	112	70-130	YES
Vinyl Chloride	2.00	2.31	115	70-130	YES
Bromomethane	2.00	2.12	106	70-130	YES
Chloroethane	2.00	2.11	106	70-130	YES
Trichlorofluoromethane	2.00	2.19	109	70-130	YES
1,1-Dichloroethene	5.00	5.03	101	70-130	YES
Methylene Chloride	5.00	4.80	96	70-130	YES
trans-1,2-Dichloroethene	5.00	4.98	100	70-130	YES
1,1-Dichloroethane	5.00	4.82	96	70-130	YES
cis-1,2-Dichloroethene	5.00	4.92	98	70-130	YES
2,2-Dichloropropane	5.00	4.98	100	70-130	YES
Bromochloromethane	5.00	5.20	104	70-130	YES
Chloroform	5.00	5.05	101	70-130	YES
1,1,1-Trichloroethane	5.00	5.16	103	70-130	YES
Carbon Tetrachloride	5.00	5.35	107	70-130	YES
1,1-Dichloropropene	5.00	5.02	100	70-130	YES
Benzene	5.00	4.79	96	70-130	YES
1,2-Dichloroethane	5.00	5.07	101	70-130	YES
Trichloroethene	5.00	4.98	100	70-130	YES
1,2-Dichloropropane	5.00	4.89	98	70-130	YES
Dibromomethane	5.00	5.06	101	70-130	YES
Bromodichloromethane	5.00	5.24	105	70-130	YES
cis-1,3-Dichloropropene	5.00	4.71	94	70-130	YES
Toluene	5.00	5.00	100	70-130	YES
trans-1,3-Dichloropropene	5.00	5.00	100	70-130	YES
1,1,2-Trichloroethane	5.00	5.05	101	70-130	YES
Tetrachloroethene	5.00	5.13	103	70-130	YES
1,3-Dichloropropane	5.00	4.89	98	70-130	YES
Dibromochloromethane	5.00	5.15	103	70-130	YES
1,2-Dibromoethane	5.00	4.84	97	70-130	YES
Chlorobenzene	5.00	5.01	100	70-130	YES
1,1,1,2-Tetrachloroethane	5.00	5.10	102	70-130	YES
Ethylbenzene	5.00	5.03	101	70-130	YES
m+p-Xylene	10.00	10.23	102	70-130	YES
o-Xylene	5.00	5.14	103	70-130	YES
Styrene	5.00	5.30	106	70-130	YES
Bromoform	5.00	5.04	101	70-130	YES
Isopropylbenzene	5.00	5.26	105	70-130	YES
1,1,2,2-Tetrachloroethane	5.00	5.15	103	70-130	YES
Bromobenzene	5.00	5.17	103	70-130	YES
1,2,3-Trichloropropane	5.00	5.11	102	70-130	YES
n-Propylbenzene	5.00	5.17	103	70-130	YES
2-Chlorotoluene	5.00	5.18	104	70-130	YES
1,3,5-Trimethylbenzene	5.00	5.18	104	70-130	YES
4-Chlorotoluene	5.00	5.18	104	70-130	YES
tert-Butylbenzene	5.00	5.44	109	70-130	YES
1,2,4-Trimethylbenzene	5.00	5.43	109	70-130	YES
sec-Butylbenzene	5.00	5.23	105	70-130	YES
p-Isopropyltoluene	5.00	5.38	108	70-130	YES
1,3-Dichlorobenzene	5.00	5.59	112	70-130	YES
1,4-Dichlorobenzene	5.00	5.35	107	70-130	YES
n-Butylbenzene	5.00	5.52	110	70-130	YES
1,2-Dichlorobenzene	5.00	5.50	110	70-130	YES
1,2-Dibromo-3-Chloropropane	5.00	5.03	101	70-130	YES
1,2,4-Trichlorobenzene	5.00	5.41	108	70-130	YES
Hexachlorobutadiene	5.00	5.53	111	70-130	YES
Naphthalene	5.00	5.03	101	70-130	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by _____

WATII 0034

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Method 524.2 LFB Sample Summary

File: gm25l21.d
Inst: HP16334
Dilution Factor: 1.0

Injected: 03/25/10 at 17:11
Sample: LFBG41

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: G100842AA

COMPOUND NAME	SPIKE LEVEL	LFB CONC UG/L	LFB REC %	Range LOWER-UPPER	INSPEC
1,2,3-Trichlorobenzene	5.00	5.19	104	70-130	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by WAT11 0035

_____ Ver. by _____

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: gm25b21.d Lab Sample ID: VBLKG41

Date Analyzed: 03/25/10 Time Analyzed: 16:49

Matrix (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP16334

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFBG41	LFBG41	gm25l21.d	17:11
02	WRES1	5932646	gm25s21.d	18:04
03	WHGPR	5932647	gm25s22.d	18:26
04	WRE15	5932648	gm25s23.d	18:47
05	WRE16	5932649	gm25s24.d	19:09
06	WBREM	5932650	gm25s25.d	19:30
07	WBREMDL	5932650	gm25s26.d	19:52
08	WRES2	5932651	gm25s27.d	20:13
09	WCLTB	5932652	gm25s28.d	20:35

COMMENTS: G100842AA

WAT11 0036

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: gm23t01.d BFB Injection Date: 03/23/10

Instrument ID: HP16334 BFB Injection Time: 12:42

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	15.5
75	30.0 - 80.0% of mass 95	48.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	Greater than 50.0% of mass 95	85.5
175	5.0 - 9.0% of mass 174	6.0 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.7 (97.9)1
177	5.0 - 9.0% of mass 176	5.4 (6.4)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	gm23i01.d	03/23/10	13:14
02	VSTD010	VSTD010	gm23i02.d	03/23/10	13:36
03	VSTD005	VSTD005	gm23i03.d	03/23/10	13:58
04	VSTD0.5	VSTD0.5	gm23i04.d	03/23/10	14:20
05	LFBG37	LFBG37	gf23l01.d	03/23/10	15:27

WAT11 0037

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: gm25t01.d BFB Injection Date: 03/25/10

Instrument ID: HP16334 BFB Injection Time: 09:20

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	16.8
75	30.0 - 80.0% of mass 95	49.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	Greater than 50.0% of mass 95	88.1
175	5.0 - 9.0% of mass 174	6.2 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	85.4 (96.9)1
177	5.0 - 9.0% of mass 176	5.6 (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	VSTD010	VSTD010	gm25c01.d	03/25/10	09:39
02	VBLKG41	VBLKG41	gm25b21.d	03/25/10	16:49
03	LFBG41	LFBG41	gm25l21.d	03/25/10	17:11
04	WRES1	5932646	gm25s21.d	03/25/10	18:04
05	WHGPR	5932647	gm25s22.d	03/25/10	18:26
06	WRE15	5932648	gm25s23.d	03/25/10	18:47
07	WRE16	5932649	gm25s24.d	03/25/10	19:09
08	WBREM	5932650	gm25s25.d	03/25/10	19:30
09	WBREMDL	5932650	gm25s26.d	03/25/10	19:52
10	WRES2	5932651	gm25s27.d	03/25/10	20:13
11	WCLTB	5932652	gm25s28.d	03/25/10	20:35

WAT11 0838

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): gm25c01.d Date Analyzed: 03/25/10

Instrument ID: HP16334 Time Analyzed: 09:39

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(FBZ) AREA #	RT #
	12 HOUR STD	1925056	7.988
	UPPER LIMIT	3850112	8.488
	LOWER LIMIT	962528	7.488
	EPA SAMPLE NO.		
01	VBLKG41	1885225	7.988
02	LFBG41	1974805	7.988
03	WRES1	1936150	7.964
04	WHGPR	1892124	7.982
05	WRE15	1862125	7.982
06	WRE16	1850584	7.982
07	WBREM	1865370	7.982
08	WBREMDL	1857528	7.988
09	WRES2	1849498	7.988
10	WCLTB	1848481	7.982

IS1 (FBZ)=Fluorobenzene

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

WAT11 0039

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

Sample Data

Lancaster Laboratories

LOQ and MDL by Analysis Number
Analysis: 03648
Department: 21

Component	MDL	LOQ	Units
03648: EPA 524.2 Master			
Dichlorodifluoromethane	0.20	0.50	ug/l
2,2-Dichloropropane	0.20	0.50	ug/l
cis-1,2-Dichloroethene	0.10	0.50	ug/l
Bromochloromethane	0.10	0.50	ug/l
1,1-Dichloropropene	0.10	0.50	ug/l
Dibromomethane	0.10	0.50	ug/l
1,3-Dichloropropane	0.10	0.50	ug/l
Methylene Chloride	0.30	0.50	ug/l
1,2-Dibromoethane	0.10	0.50	ug/l
trans-1,3-Dichloropropene	0.10	0.50	ug/l
cis-1,3-Dichloropropene	0.10	0.50	ug/l
Chloromethane	0.20	0.50	ug/l
Bromomethane	0.10	0.50	ug/l
Vinyl Chloride	0.10	0.50	ug/l
Chloroethane	0.20	0.50	ug/l
Trichlorofluoromethane	0.20	0.50	ug/l
1,1-Dichloroethene	0.10	0.50	ug/l
trans-1,2-Dichloroethene	0.10	0.50	ug/l
1,1-Dichloroethane	0.10	0.50	ug/l
Chloroform	0.10	0.50	ug/l
1,1,1-Trichloroethane	0.10	0.50	ug/l
Carbon Tetrachloride	0.10	0.50	ug/l
Benzene	0.10	0.50	ug/l
1,2-Dichloroethane	0.10	0.50	ug/l
Trichloroethene	0.10	0.50	ug/l
1,2-Dichloropropane	0.10	0.50	ug/l
Bromodichloromethane	0.10	0.50	ug/l
Toluene	0.10	0.50	ug/l
1,1,2-Trichloroethane	0.10	0.50	ug/l
Tetrachloroethene	0.10	0.50	ug/l
Dibromochloromethane	0.10	0.50	ug/l
Dichlorofluoromethane	0.20	0.50	ug/l
Xylene (Total)	0.20	0.50	ug/l
Freon 113	0.20	0.50	ug/l
Acrolein	15	50	ug/l
di-Isopropyl Ether	0.10	0.50	ug/l
Ethyl t-Butyl Ether	0.10	0.50	ug/l
t-Amyl Methyl Ether	0.10	0.50	ug/l
Ethyl Ether	0.20	0.50	ug/l
Acetone	3.0	5.0	ug/l
Methyl Iodide	0.10	0.50	ug/l
Carbon Disulfide	0.40	2.0	ug/l
Allyl Chloride	0.10	0.50	ug/l
Acrylonitrile	2.0	10	ug/l
Methyl Tertiary Butyl Ether	0.10	0.50	ug/l
2-Butanone	2.0	5.0	ug/l
Propionitrile	3.0	10	ug/l
Methyl Acrylate	0.50	5.0	ug/l
Methacrylonitrile	1.0	5.0	ug/l
Tetrahydrofuran	2.0	5.0	ug/l
1-Chlorobutane	0.20	0.50	ug/l
Methyl Methacrylate	0.20	0.50	ug/l
2-Nitropropane	9.0	50	ug/l
Chloroacetonitrile	7.0	50	ug/l
1,1-Dichloropropanone	9.0	50	ug/l
4-Methyl-2-pentanone	0.60	5.0	ug/l
Ethyl Methacrylate	0.10	0.50	ug/l
2-Hexanone	0.60	5.0	ug/l
trans-1,4-Dichloro-2-butene	1.0	5.0	ug/l

WAT11 8041

Component	MDL	LOQ	Units
03648: EPA 524.2 Master			
Pentachloroethane	0.10	0.50	ug/l
Hexachloroethane	0.10	0.50	ug/l
Nitrobenzene	5.0	50	ug/l
t-Butyl Alcohol	5.0	25.0	ug/l
1,1,1,2-Tetrachloroethane	0.10	0.50	ug/l
m+p-Xylene	0.20	0.50	ug/l
o-Xylene	0.10	0.50	ug/l
Isopropylbenzene	0.10	0.50	ug/l
Bromobenzene	0.10	0.50	ug/l
1,2,3-Trichloropropane	0.20	0.50	ug/l
n-Propylbenzene	0.10	0.50	ug/l
2-Chlorotoluene	0.10	0.50	ug/l
1,3,5-Trimethylbenzene	0.10	0.50	ug/l
4-Chlorotoluene	0.20	0.50	ug/l
tert-Butylbenzene	0.10	0.50	ug/l
1,2,4-Trimethylbenzene	0.10	0.50	ug/l
sec-Butylbenzene	0.10	0.50	ug/l
p-Isopropyltoluene	0.10	0.50	ug/l
1,3-Dichlorobenzene	0.10	0.50	ug/l
1,4-Dichlorobenzene	0.10	0.50	ug/l
n-Butylbenzene	0.20	0.50	ug/l
1,2-Dichlorobenzene	0.10	0.50	ug/l
1,2-Dibromo-3-chloropropane	0.40	1.0	ug/l
1,2,4-Trichlorobenzene	0.20	0.50	ug/l
Hexachlorobutadiene	0.20	0.50	ug/l
Naphthalene	0.20	0.50	ug/l
1,2,3-Trichlorobenzene	0.20	0.50	ug/l
Chlorobenzene	0.10	0.50	ug/l
Ethylbenzene	0.10	0.50	ug/l
Styrene	0.10	0.50	ug/l
Bromoform	0.20	0.50	ug/l
1,1,2,2-Tetrachloroethane	0.10	0.50	ug/l

WAT11 0042

WRES1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932646

File: /chem2/HP16334.i/10mar25a.b/gm25s21.d
Sample: WRES1;5932646;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:04
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.964(0.024)	1046	96	1936150(1)	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)	12.323(-0.004)	174	502636	4.898	98%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(-0.005)	152	526010	5.276	106%		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.	Qual.	Reporting 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

WRES1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932646

File: /chem2/HP16334.i/10mar25a.b/gm25s21.d
Sample: WRES1;5932646;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:04
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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

WRES1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932646

File: /chem2/HP16334.i/10mar25a.b/gm25s21.d
Sample: WRES1;5932646;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:04
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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: [signature] Date: 3/25/10

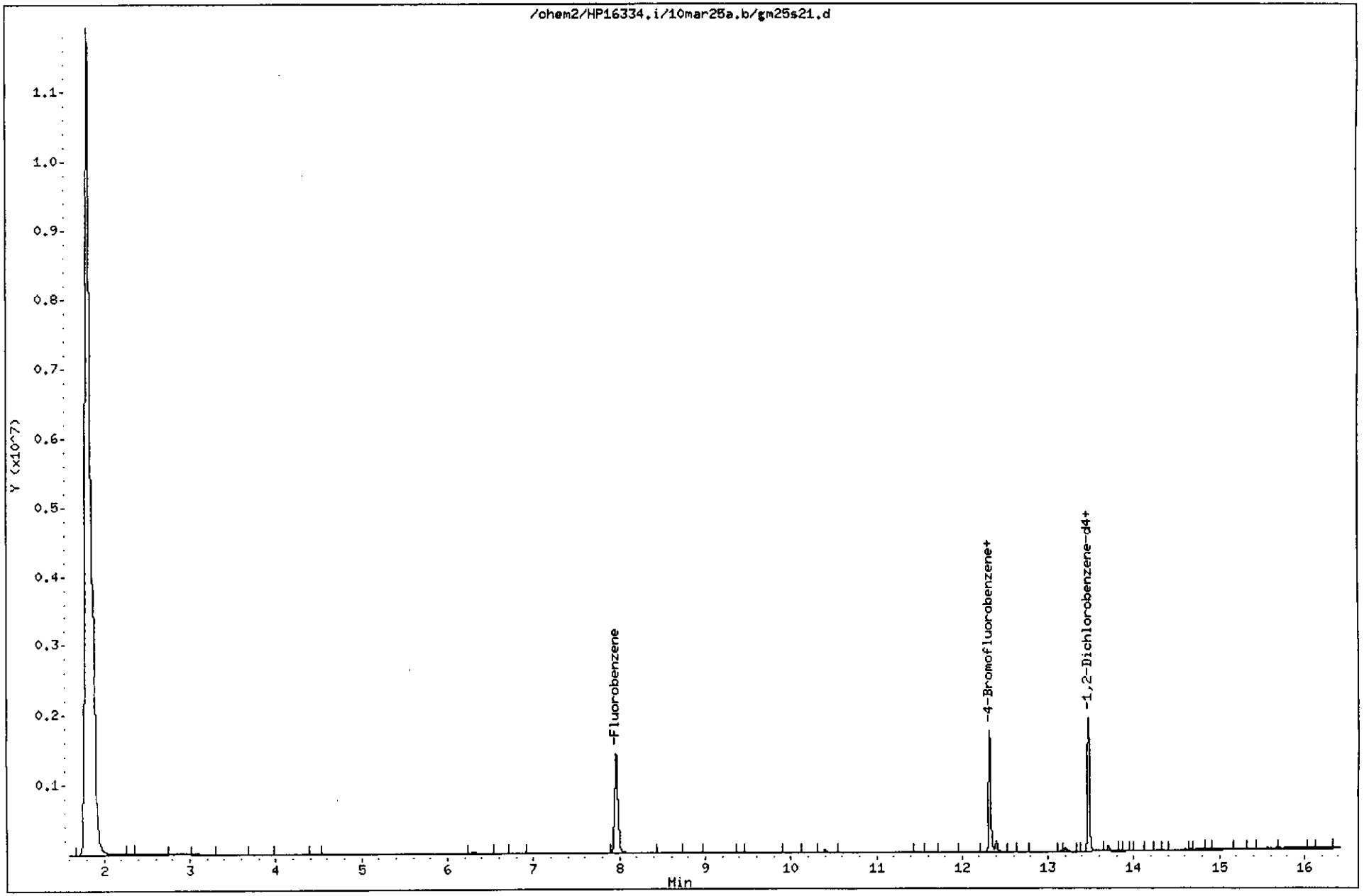
Auditor: [signature] Date: 03/10

WAT11 0045

Data File: /chem2/HP16334.i/10mar25a.b/gm25s21.d
Date : 25-MAR-2010 18:04
Client ID: WRES1
Sample Info: WRES1;5932646;1;0;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s21.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 18:04 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WRES1 Lab Sample ID: 5932646

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) *Fluorobenzene	(1)	7.964	96	1936150	5.000
73) $4-Bromofluorobenzene	(1)	12.323	174	502636	4.898
90) $1,2-Dichlorobenzene-d4	(1)	13.475	152	526010	5.276

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WHGPR

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932647

File: /chem2/HP16334.i/10mar25a.b/gm25s22.d
Sample: WHGPR;5932647;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:26
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DPAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.982(0.006)	1049	96	1892124(-2)	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)	12.329	(-0.001)	174	498574	4.971	99%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475	(-0.001)	152	520093	5.338	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.	Qual.	Reporting 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

WHGPR

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932647

File: /chem2/HP16334.i/10mar25a.b/gm25s22.d
Sample: WHGPR;5932647;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:26
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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

WHGPR

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5932647

File: /chem2/HP16334.i/10mar25a.b/gm25s22.d
Sample: WHGPR;5932647;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:26
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting Limit	LOQ
35) sec-Butylbenzene	(1)					ND	ND			0.10	0.50
36) 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: _____

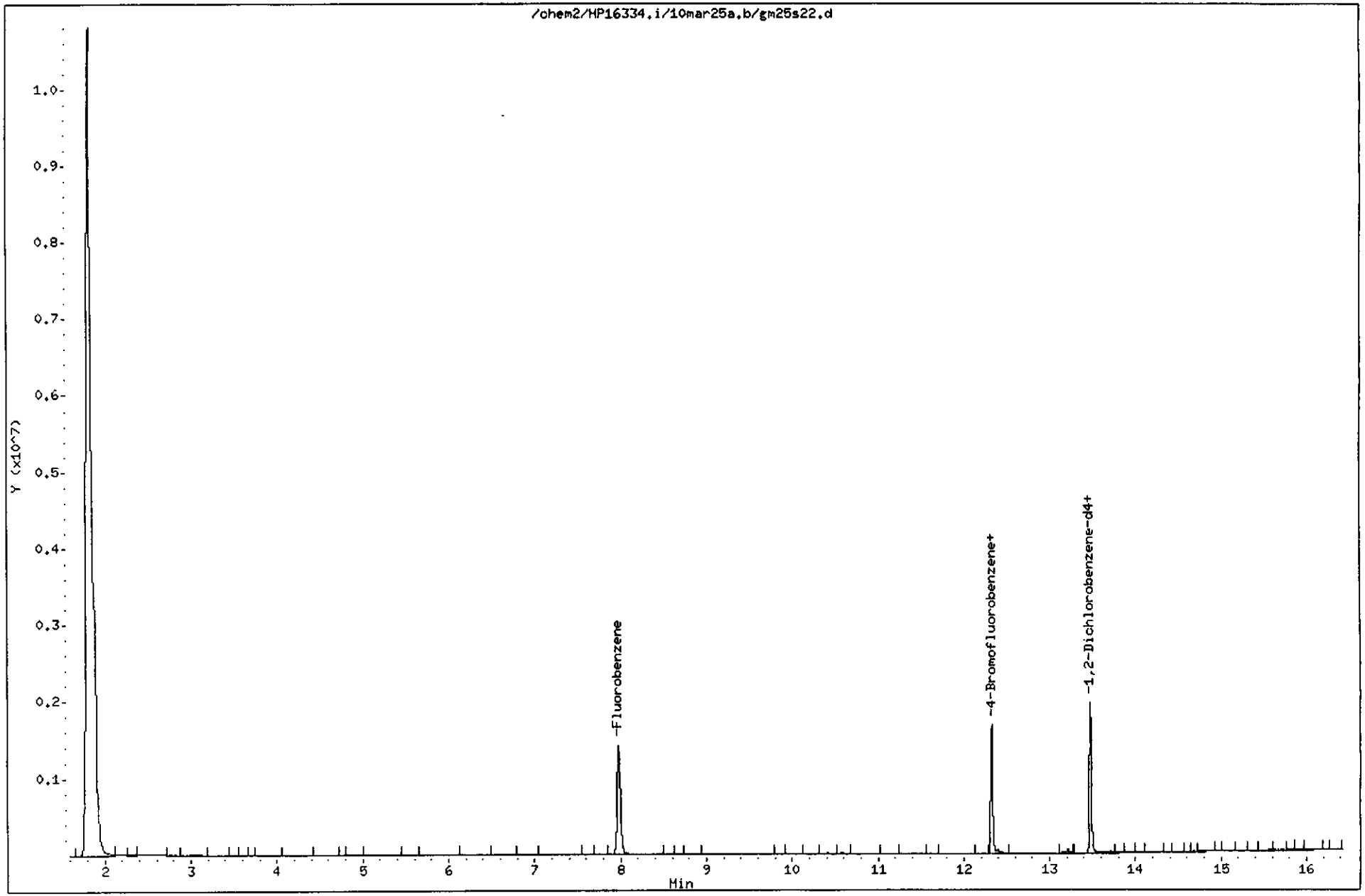
Analyst: _____ Date: 3/25/10

Auditor: _____ Date: 03/31/10

Data File: /chem2/HP16334.i/10mar25a.b/gm25s22.d
Date : 25-MAR-2010 18:26
Client ID: WHGPR
Sample Info: WHGPR;5932647;1;0;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s22.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 18:26 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WHGPR Lab Sample ID: 5932647

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42)*Fluorobenzene	(1)	7.982	96	1892124	5.000
73)$4-Bromofluorobenzene	(1)	12.329	174	498574	4.971
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	520093	5.338

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WRE15

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932648

File: /chem2/HP16334.i/10mar25a.b/gm25s23.d
Sample: WRE15;5932648;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:47
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.982(0.006)	1049	96	1862125(-3)	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)	12.328(-0.001)	174	489996	4.965	99%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(-0.001)	152	510164	5.321	106%		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.	Qual.	Reporting 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

WAT11 8853

WRE15

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932648

File: /chem2/HP16334.i/10mar25a.b/gm25s23.d
Sample: WRE15;5932648;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:47
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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)	10.579	(-0.001)	166	20446	0.211	0.21		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

WAT11 0054

WRE15

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932648

File: /chem2/HP16334.i/10mar25a.b/gm25s23.d
Sample: WRE15;5932648;1;0;;;DRAPER;
Injected At:25-MAR-2010 18:47
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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: [signature] Date: 3/25/10

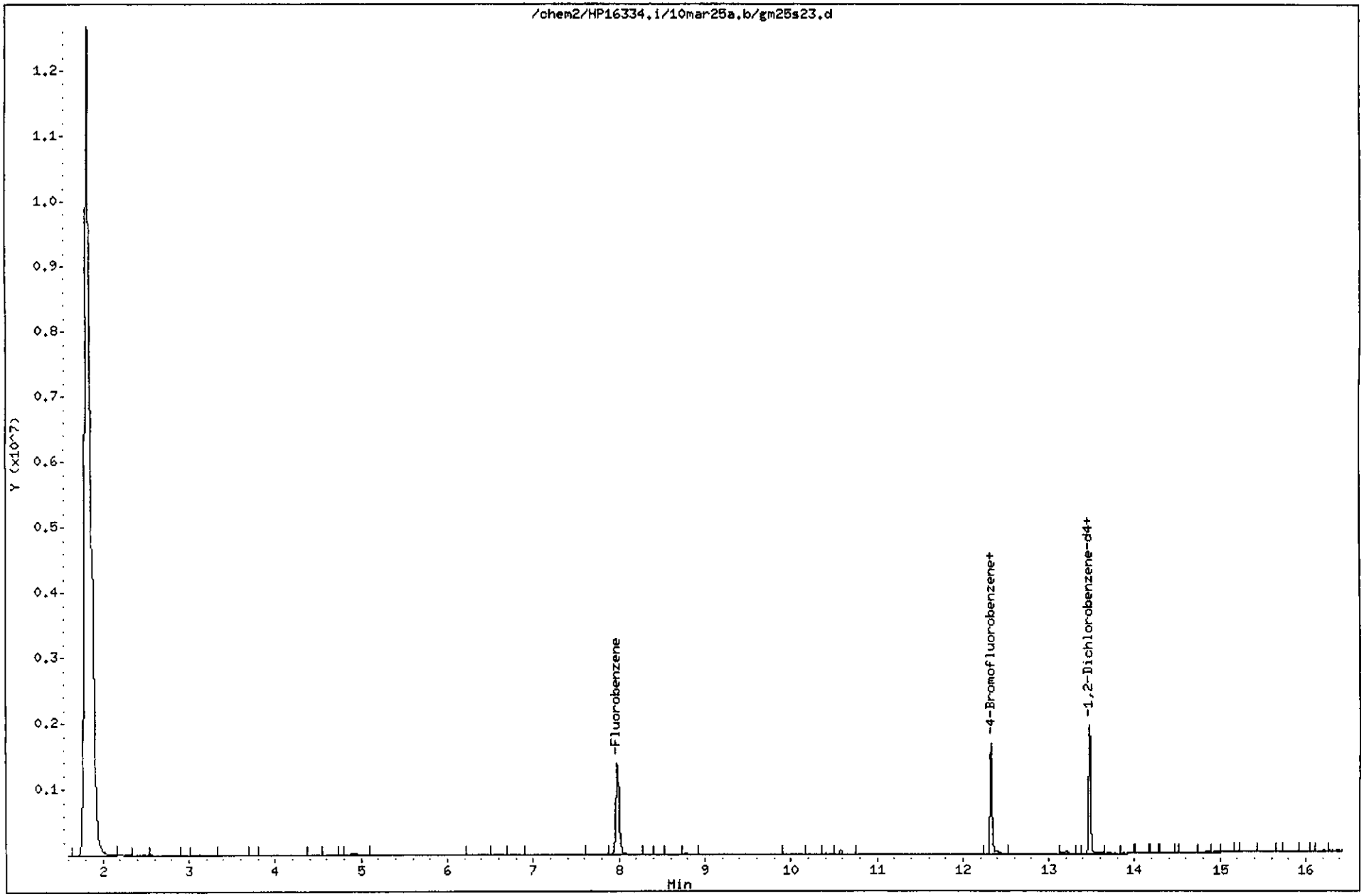
Auditor: [signature] Date: 3/31/10

Data File: /chem2/HP16334.i/10mar25a.b/gm25s23.d
Date : 25-MAR-2010 18:47
Client ID: WRE15
Sample Info: WRE15;5932648;1;0;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25

WATII 00456



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s23.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 18:47 Analyst ID: JML01693

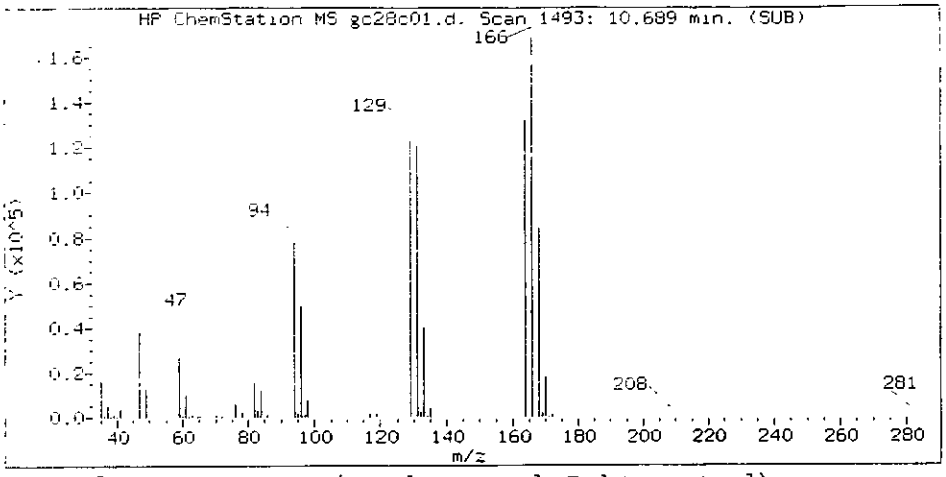
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WRE15 Lab Sample ID: 5932648

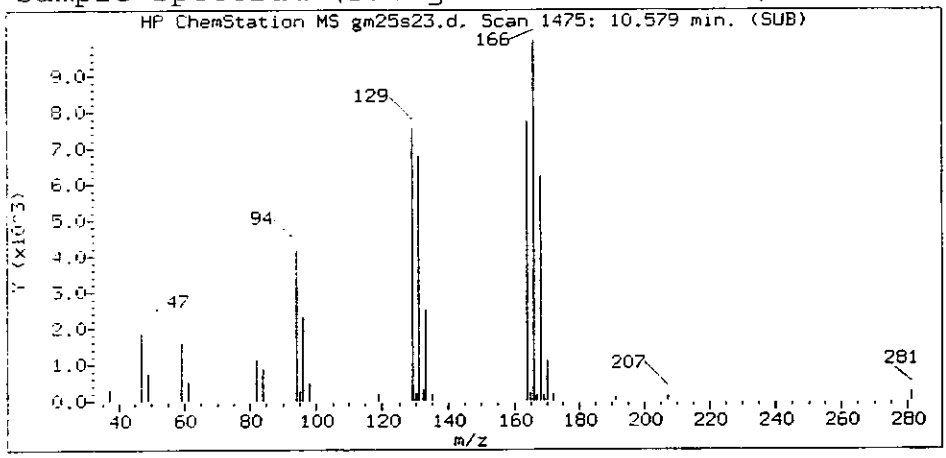
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) *Fluorobenzene	(1)	7.982	96	1862125	5.000
58) Tetrachloroethene	(1)	10.579	166	20446	0.211
73) $4-Bromofluorobenzene	(1)	12.328	174	489996	4.965
90) $1,2-Dichlorobenzene-d4	(1)	13.475	152	510164	5.321

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

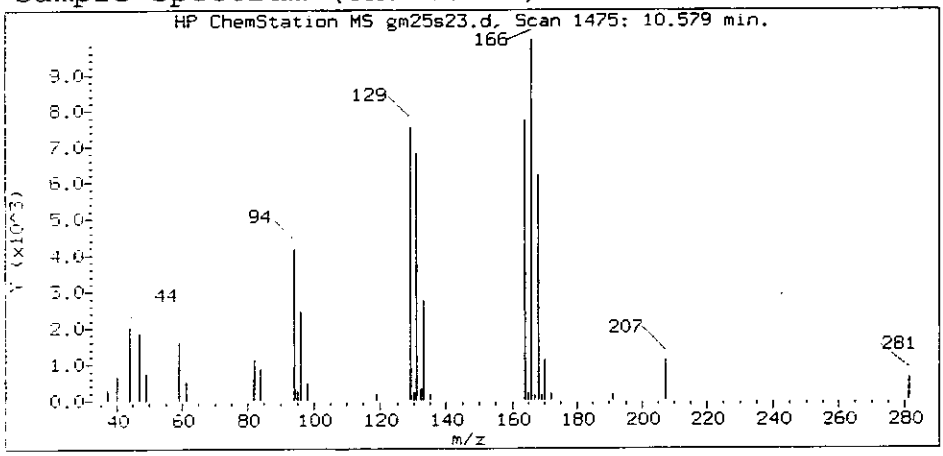
Reference Standard Spectrum for Tetrachloroethene

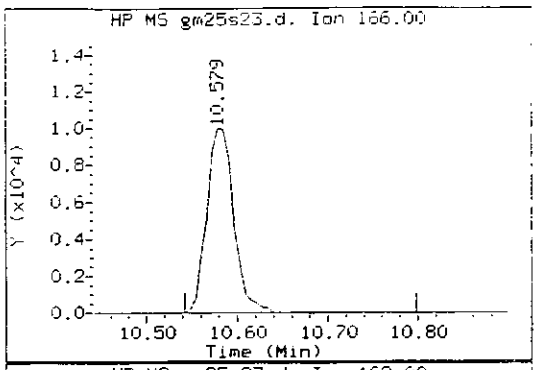


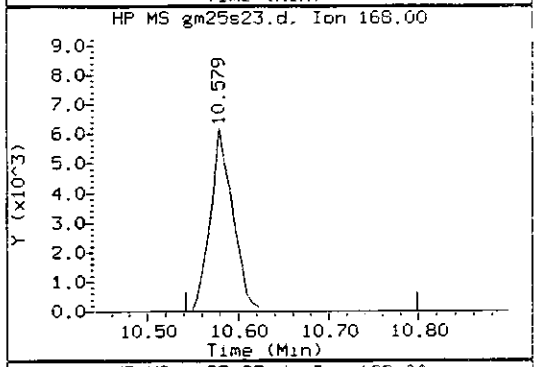
Sample Spectrum (Background Subtracted)

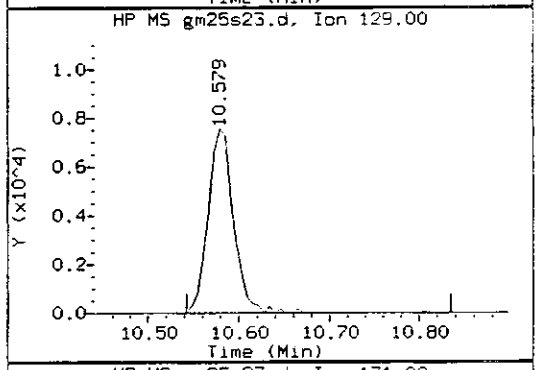


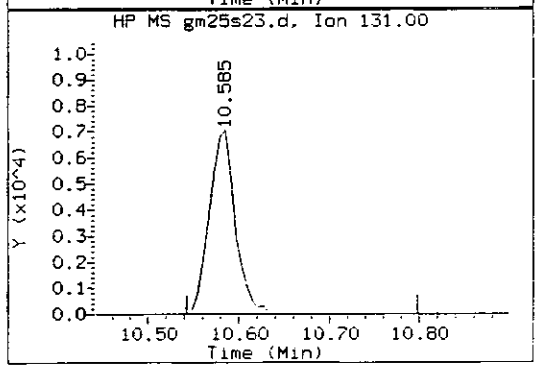
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s23.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 18:47 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WRE15 Lab Sample ID: 5932648

Compound Number	:	58
Compound Name	:	Tetrachloroethene
Scan Number	:	1475
Retention Time (minutes)	:	10.579
Quant Ion	:	166.0
Area (flag)	:	20446
Concentration (ug/L)	:	0.2114

WAT11 0858

WRE16

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932649

File: /chem2/HP16334.i/10mar25a.b/gm25s24.d
Sample: WRE16;5932649;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:09
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:**G100842AA**
Analyst:**JML01693**
Instrument ID:**HP16334.i**
Standard Reference: gm25c01.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

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.982(0.006)	1049	96	1850584(-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)	12.329(-0.001)	174	488159	4.977	100%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(-0.001)	152	515004	5.404	108%		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.	Qual.	Reporting 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)	6.421(-0.001)	96	24327	0.324	0.32		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

WRE16

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932649

File: /chem2/HP16334.i/10mar25a.b/gm25s24.d
Sample: WRE16;5932649;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:09
Calibration Time: 23-MAR-2010 13:14
Target Method: g624rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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)	10.585	(-0.002)	166	14041	0.146	0.15		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

WAT11 0866

WRE16

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932649

File: /chem2/HP16334.i/10mar25a.b/gm25s24.d
Sample: WRE16;5932649;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:09
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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: [signature] Date: 3/25/10

Auditor: [signature] Date: 033110

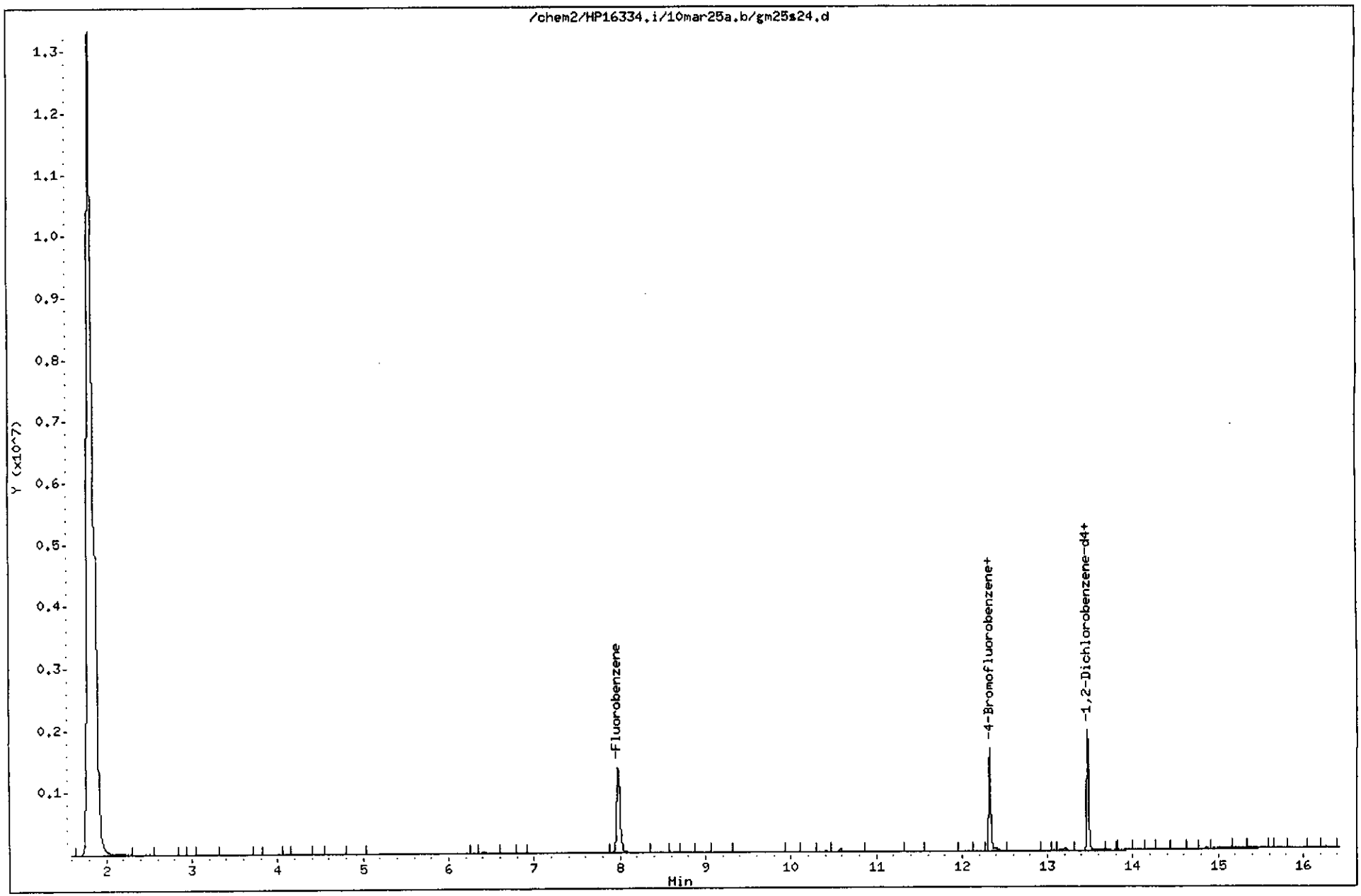
WAT11 0061

Data File: /chem2/HP16334.i/10mar25a.b/gm25s24.d
Date : 25-MAR-2010 19:09
Client ID: WRE16
Sample Info: WRE16;5932649;1;0;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JHL01693
Column diameter: 0.25

WAT11 0362



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s24.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:09 Analyst ID: JML01693

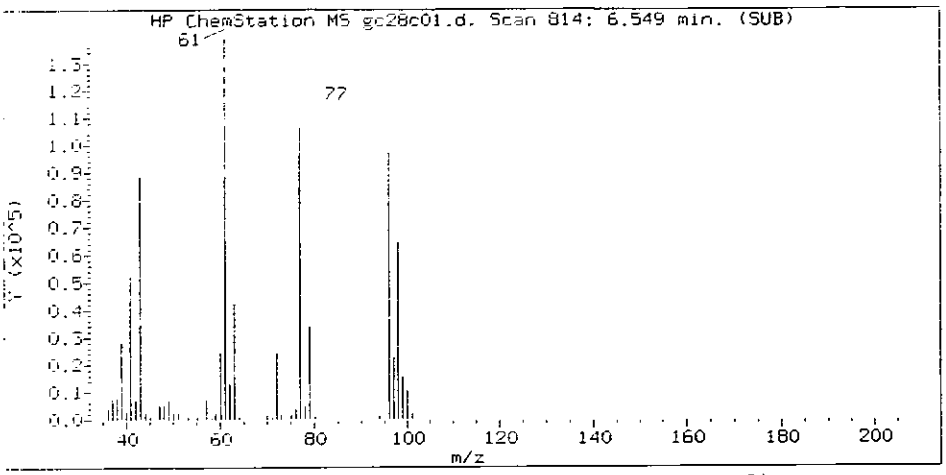
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

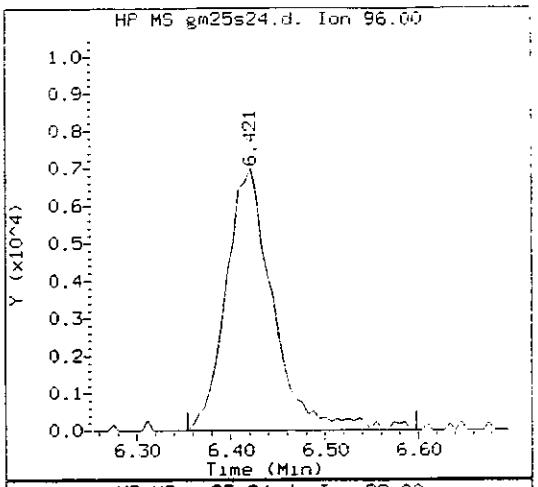
Sample Name: WRE16 Lab Sample ID: 5932649

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
26) cis-1,2-Dichloroethene	(1)	6.421	96	24327	0.324
42)*Fluorobenzene	(1)	7.982	96	1850584	5.000
58) Tetrachloroethene	(1)	10.585	166	14041	0.146
73)$4-Bromofluorobenzene	(1)	12.329	174	488159	4.977
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	515004	5.404

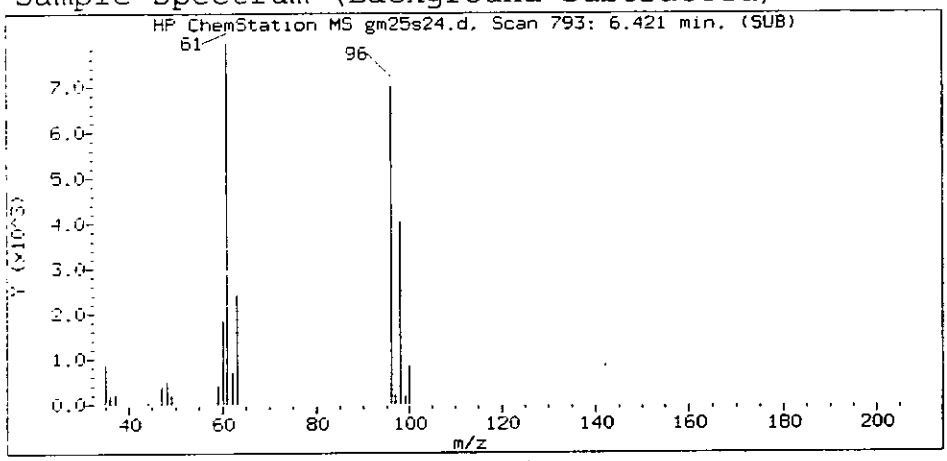
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

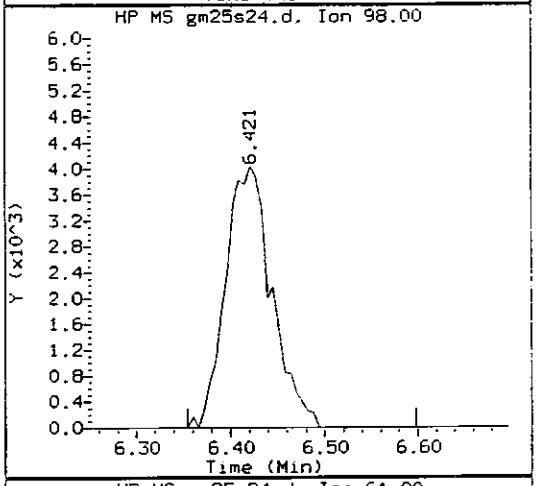
Reference Standard Spectrum for cis-1,2-Dichloroethene



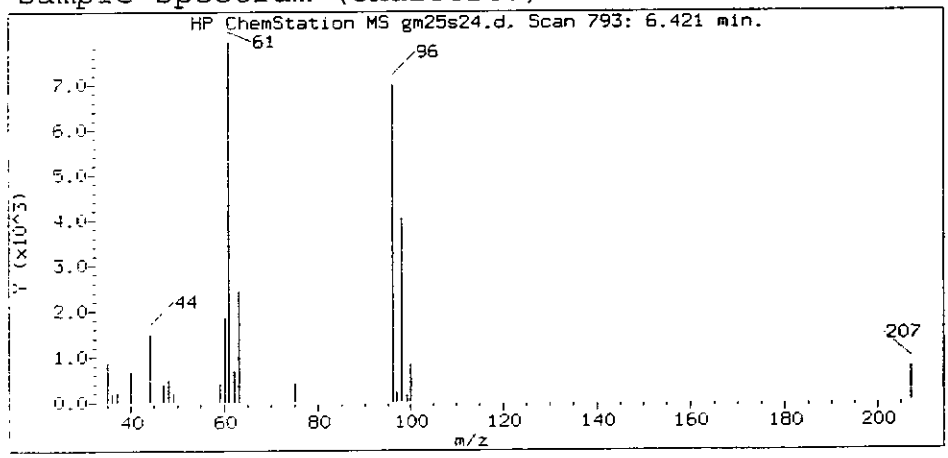


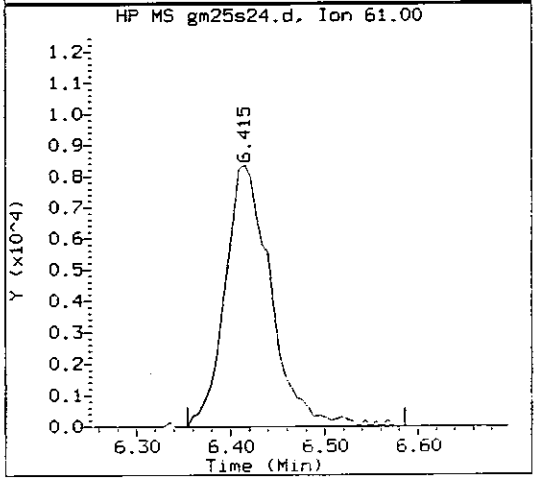
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s24.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:09 Analyst ID: JML01693

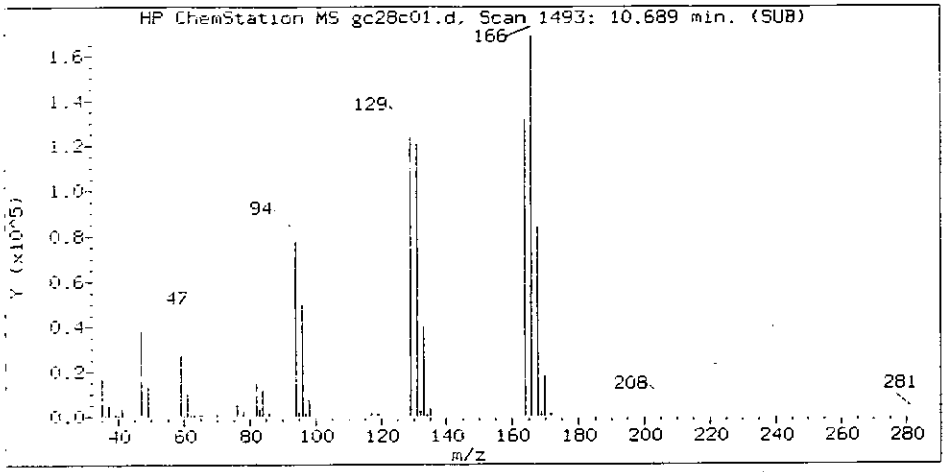
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WRE16 Lab Sample ID: 5932649

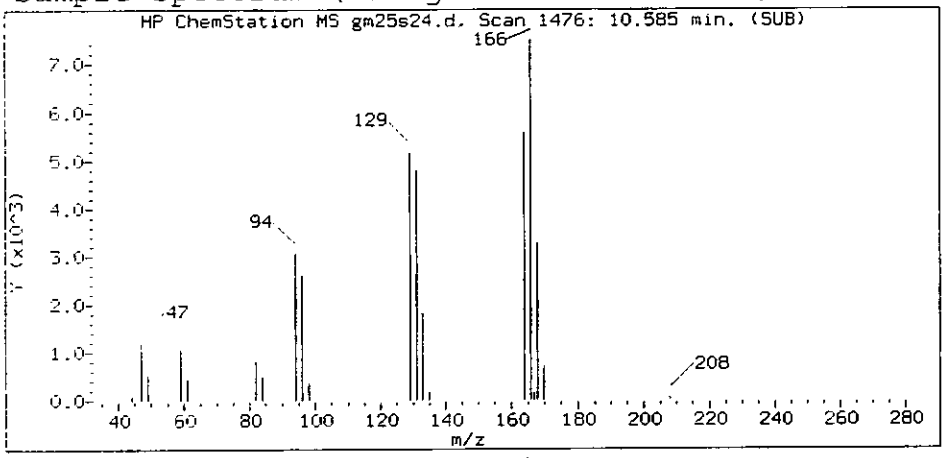
Compound Number	: 26
Compound Name	: cis-1,2-Dichloroethene
Scan Number	: 793
Retention Time (minutes)	: 6.421
Quant Ion	: 96.0
Area (flag)	: 24327
Concentration (ug/L)	: 0.3236

WAT11 0664

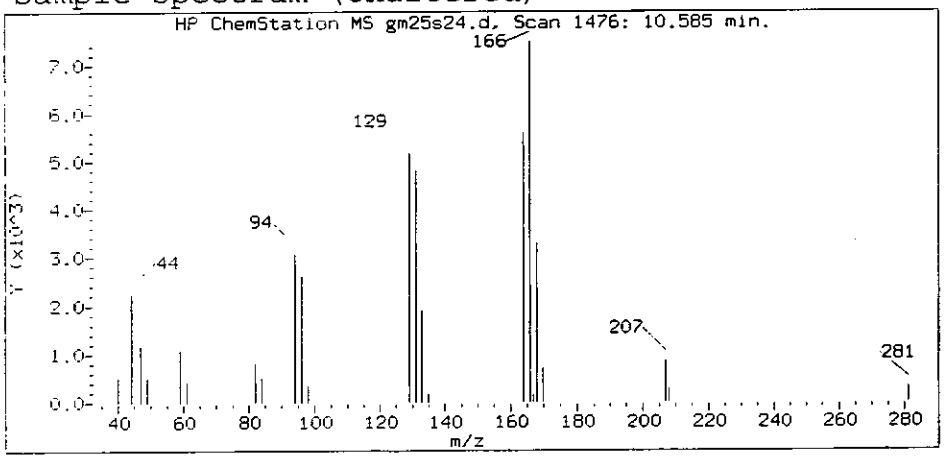
Reference Standard Spectrum for Tetrachloroethene

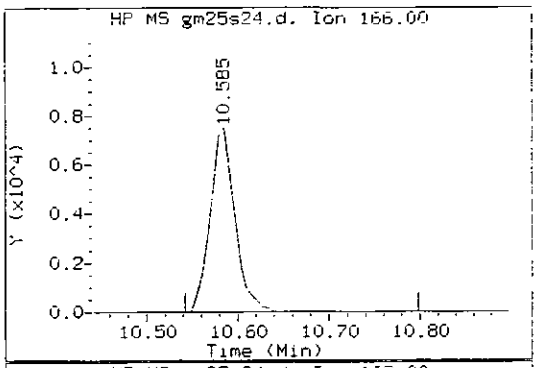


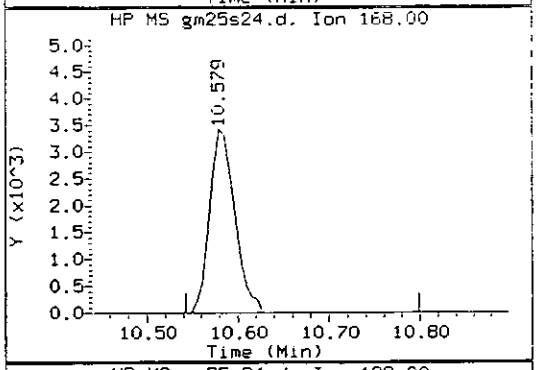
Sample Spectrum (Background Subtracted)

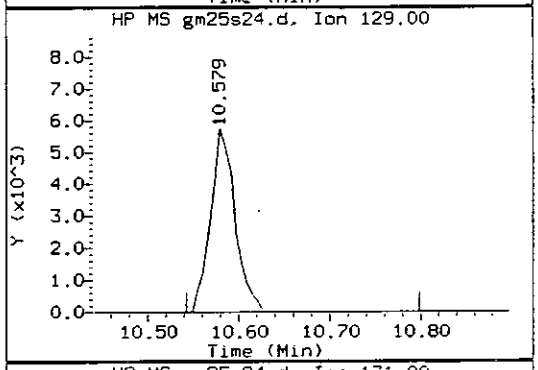


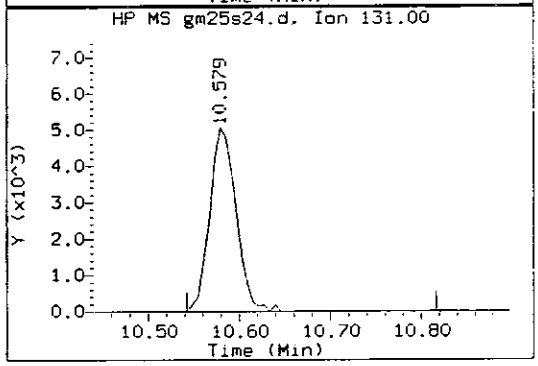
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s24.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:09 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WRE16 Lab Sample ID: 5932649

Compound Number	: 58
Compound Name	: Tetrachloroethene
Scan Number	: 1476
Retention Time (minutes)	: 10.585
Quant Ion	: 166.0
Area (flag)	: 14041
Concentration (ug/L)	: 0.1461

WAT11 0665

WBREM

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932650

File: /chem2/HP16334.i/10mar25a.b/gm25s25.d
Sample: WBREM;5932650:1;0;;;DRAPER;
Injected At:25-MAR-2010 19:30
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.982(0.006)	1049	96	1865370(-3)	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)	12.329(-0.001)	174	500745	5.065	101%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(-0.001)	152	532233	5.541	111%		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.	Qual.	Reporting Limit	LOQ
1) Dichlorodifluoromethane	(1)	2.056(-0.001)	85	123232	0.949	0.95			0.20	0.50
2) Chloromethane	(1)				ND	ND			0.20	0.50
3) Vinyl Chloride	(1)	2.343(0.000)	62	18977	0.459	0.46		J	0.10	0.50
4) Bromomethane	(1)				ND	ND			0.10	0.50
5) Chloroethane	(1)	2.836(-0.001)	64	252590	10.533	10.53			0.20	0.50
7) Trichlorofluoromethane	(1)				ND	ND			0.20	0.50
10) 1,1-Dichloroethene	(1)	3.788(0.000)	96	92391	1.395	1.39			0.10	0.50
17) Methylene Chloride	(1)	4.501(0.000)	84	94613	1.459	1.46			0.30	0.50
20) trans-1,2-Dichloroethene	(1)	4.928(0.000)	96	15023	0.194	0.19		J	0.10	0.50
22) 1,1-Dichloroethane	(1)	5.562(0.000)	63	4383752	35.176	35.18		E	0.10	0.50
26) cis-1,2-Dichloroethene	(1)	6.409(0.000)	96	468503	6.183	6.18			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)	7.616(-0.001)	78	141692	0.487	0.49		J	0.10	0.50
40) 1,2-Dichloroethane	(1)	7.647(-0.001)	62	11347	0.197	0.20		J	0.10	0.50
43) Trichloroethene	(1)	8.463(0.000)	95	79037	0.930	0.93			0.10	0.50
44) 1,2-Dichloropropane	(1)	8.756(0.000)	63	13311	0.220	0.22		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

WAT11 R866

WBREM

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5932650

File: /chem2/HP16334.i/10mar25a.b/gm25s25.d
Sample: WBREM;5932650;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:30
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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)	10.585	(-0.002)	166	37220	0.384	0.38		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)	11.384	(-0.001)	112	58931	0.297	0.30		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

WAT11 0067

WBREM

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932650

File: /chem2/HP16334.i/10mar25a.b/gm25s25.d
Sample: WBREM;5932650;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:30
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting Limit	LOQ
85) sec-Butylbenzene	(1)	13.054(-0.001)	134	13818	0.159	0.16		J	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)	13.219(-0.001)	146	358616	2.261	2.26			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: [signature] Date: 3/25/10

Auditor: [signature] Date: 03/3/10

WAT11 0068

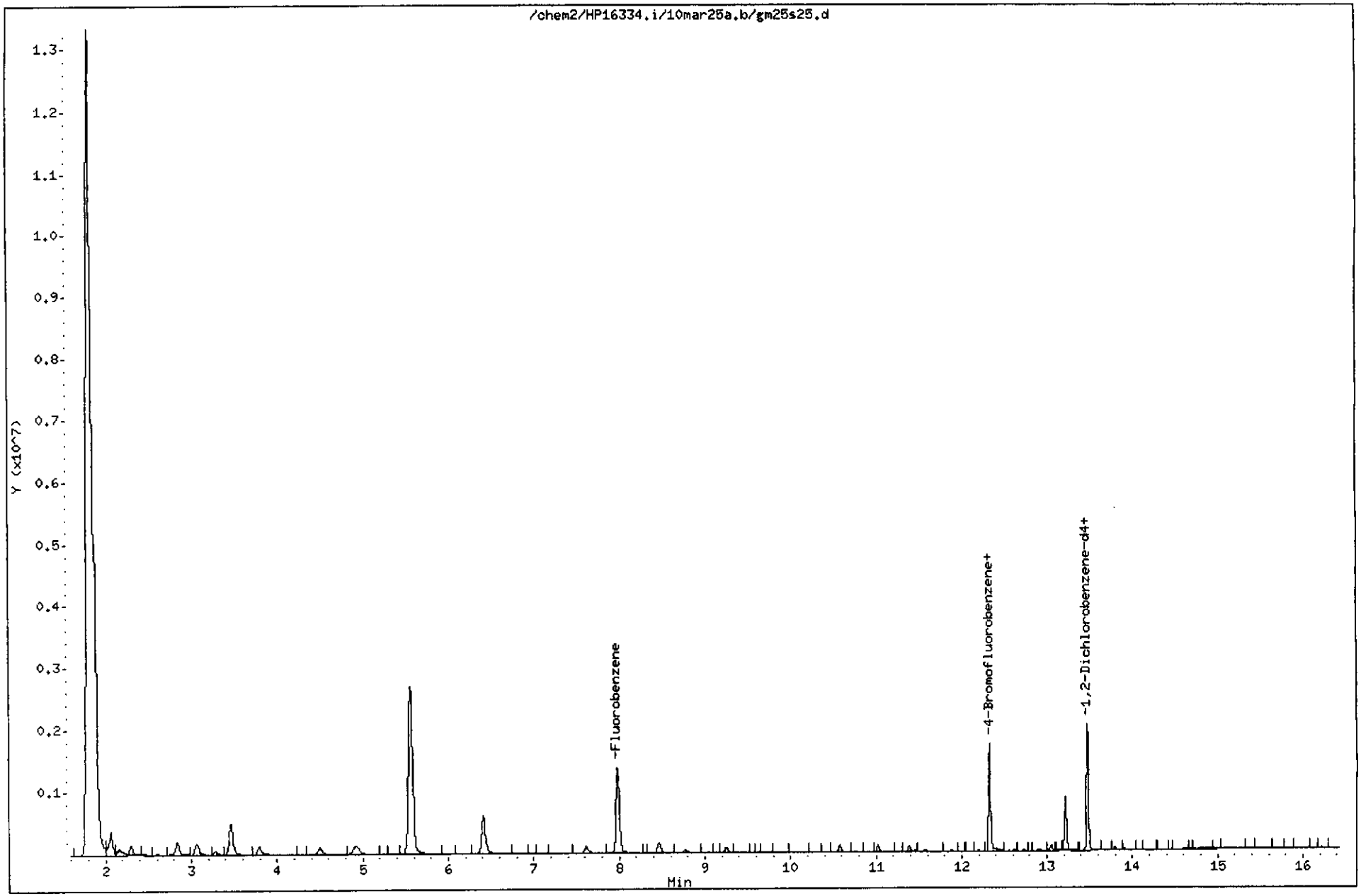
Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d
Date : 25-MAR-2010 19:30
Client ID: WBREM
Sample Info: WBREM;5932650;1;0;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25

Limiar 3bl/w

WAT11 0869



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

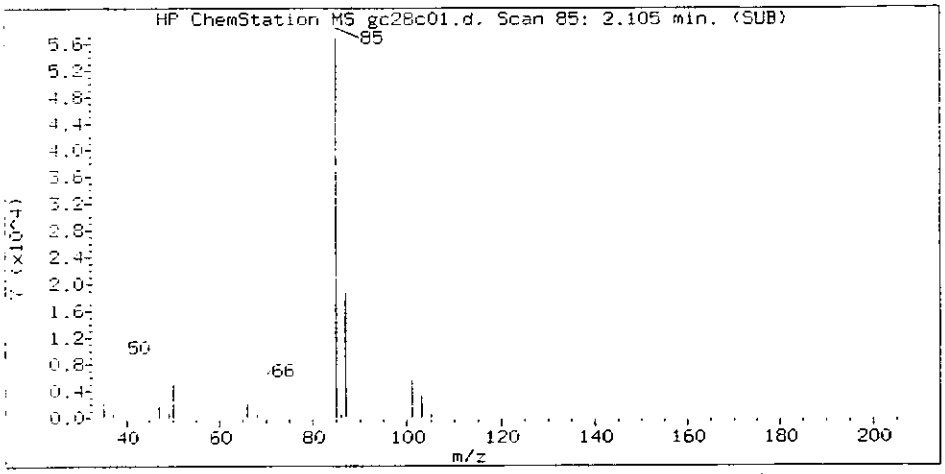
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

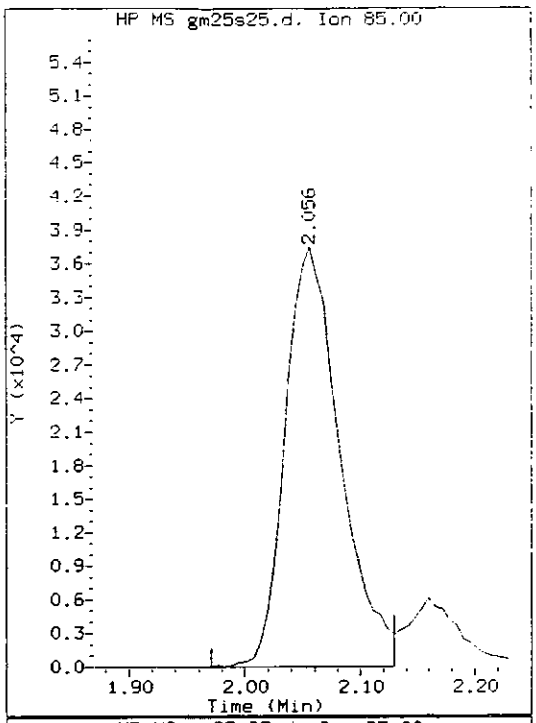
Sample Name: WBREM Lab Sample ID: 5932650

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.056	85	123232	0.949
3) Vinyl Chloride	(1)	2.343	62	18977	0.459
5) Chloroethane	(1)	2.836	64	252590	10.533
10) 1,1-Dichloroethene	(1)	3.788	96	92391	1.395
17) Methylene Chloride	(1)	4.501	84	94613	1.459
20) trans-1,2-Dichloroethene	(1)	4.928	96	15023	0.194
22) 1,1-Dichloroethane	(1)	5.562	63	4383752	35.176
26) cis-1,2-Dichloroethene	(1)	6.409	96	468503	6.183
39) Benzene	(1)	7.616	78	141692	0.487
40) 1,2-Dichloroethane	(1)	7.647	62	11347	0.197
42)*Fluorobenzene	(1)	7.982	96	1865370	5.000
43) Trichloroethene	(1)	8.463	95	79037	0.930
44) 1,2-Dichloropropane	(1)	8.756	63	13311	0.220
58) Tetrachloroethene	(1)	10.585	166	37220	0.384
64) Chlorobenzene	(1)	11.384	112	58931	0.297
85) sec-Butylbenzene	(1)	13.054	134	13818	0.159
88) 1,4-Dichlorobenzene	(1)	13.219	146	358616	2.261
73)$4-Bromofluorobenzene	(1)	12.329	174	500745	5.065
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	532233	5.541

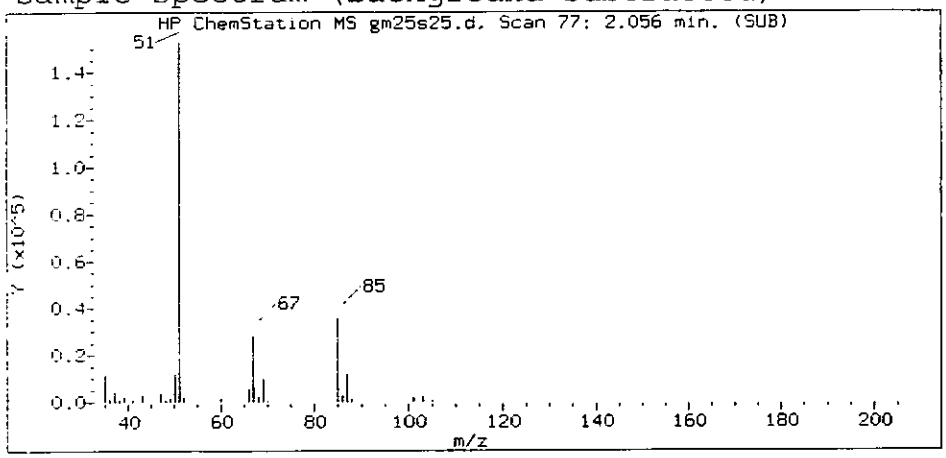
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

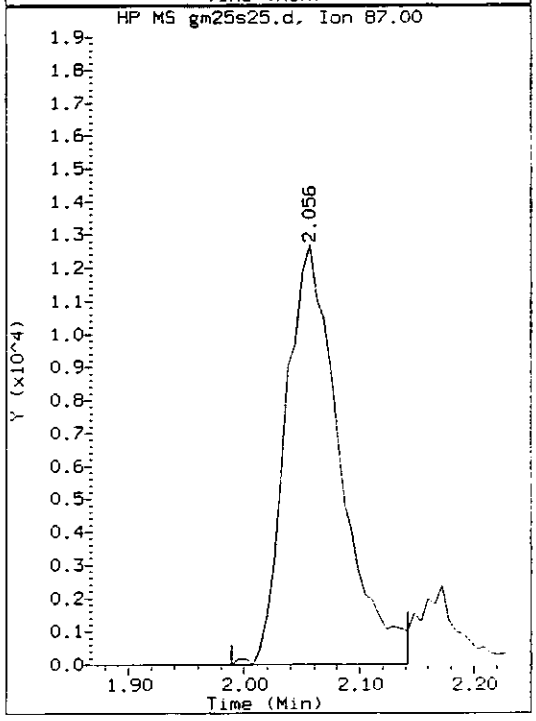
Reference Standard Spectrum for Dichlorodifluoromethane



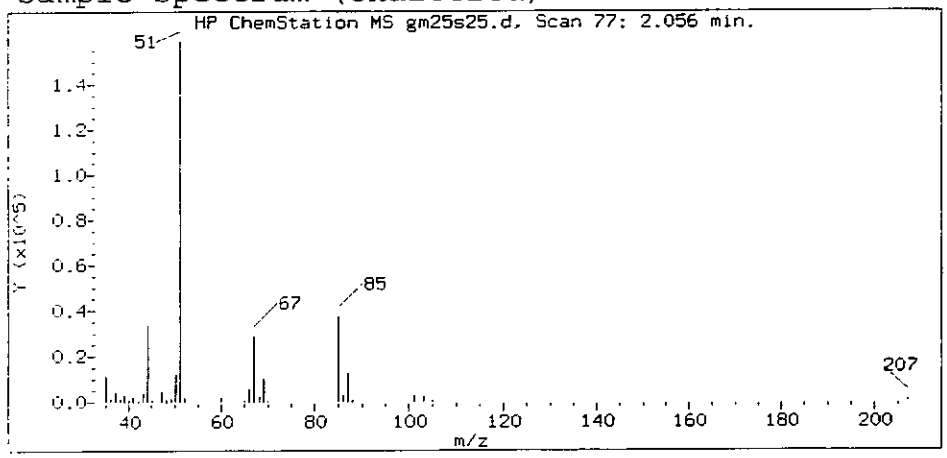


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

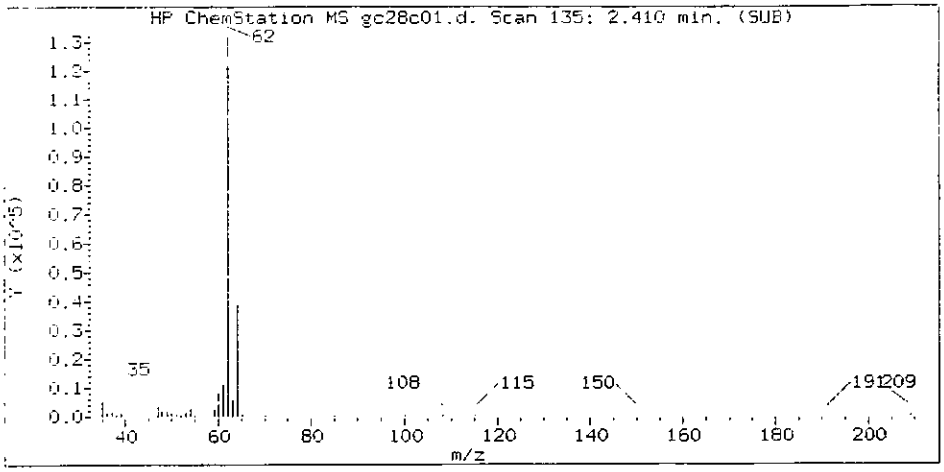
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

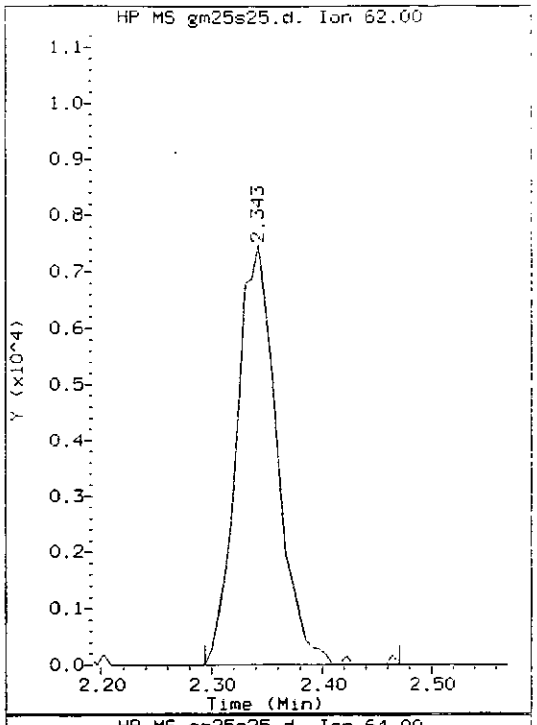
Sample Name: WBREM Lab Sample ID: 5932650

Compound Number	:	1
Compound Name	:	Dichlorodifluoromethane
Scan Number	:	77
Retention Time (minutes)	:	2.056
Quant Ion	:	85.0
Area (flag)	:	123232
Concentration (ug/L)	:	0.9486

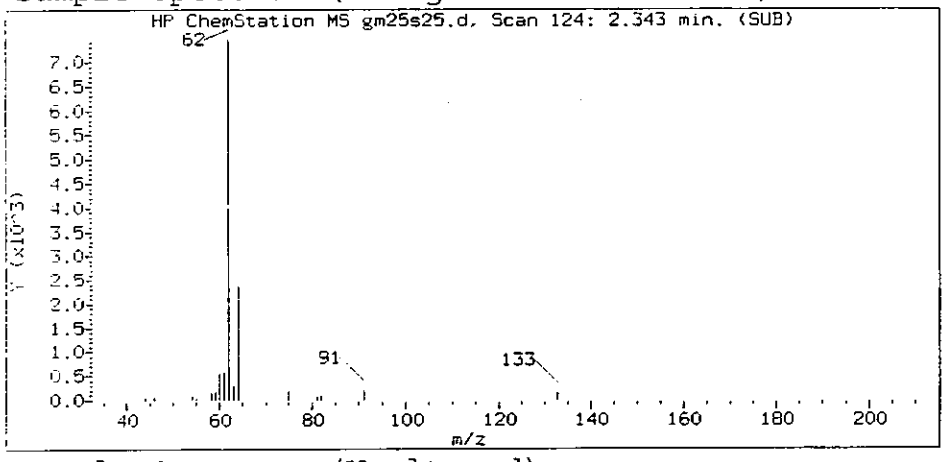
WAT11 8871

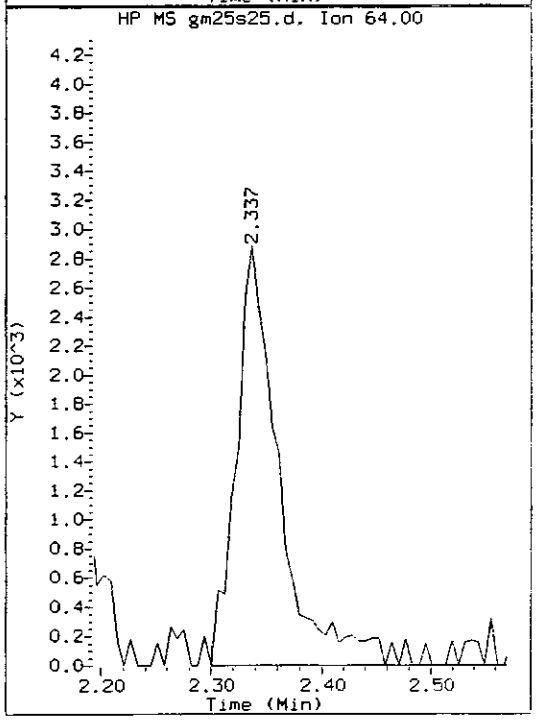
Reference Standard Spectrum for Vinyl Chloride



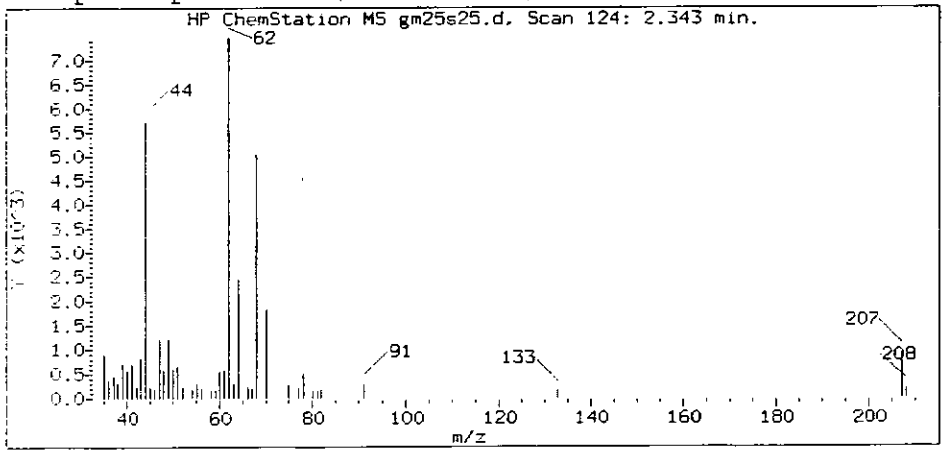


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

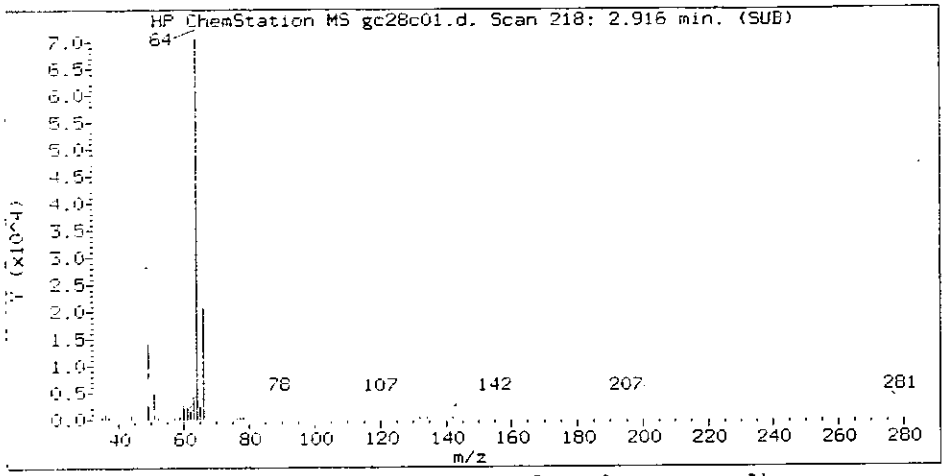
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

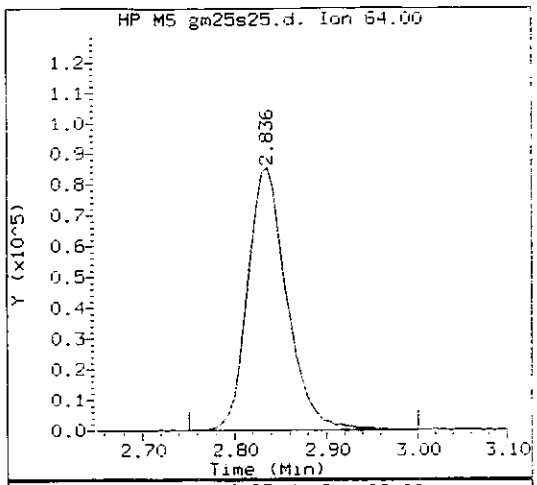
Sample Name: WBREM Lab Sample ID: 5932650

Compound Number	: 3
Compound Name	: Vinyl Chloride
Scan Number	: 124
Retention Time (minutes)	: 2.343
Quant Ion	: 62.0
Area (flag)	: 18977
Concentration (ug/L)	: 0.4587

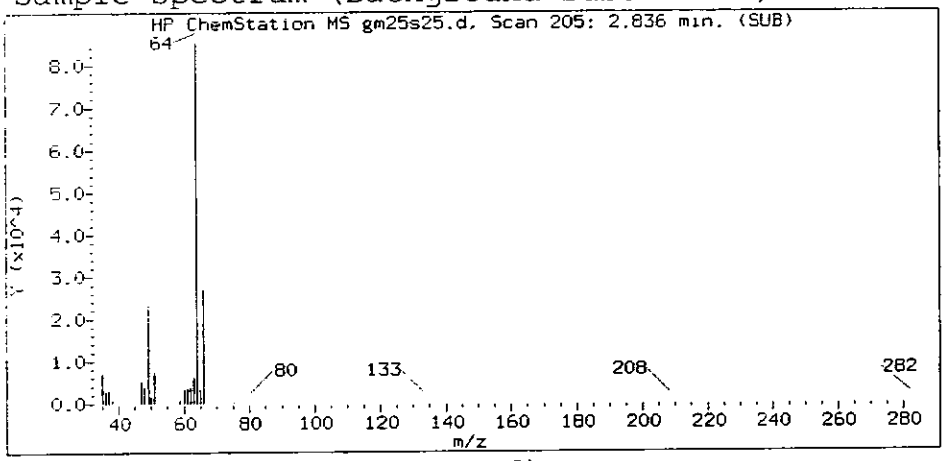
WAT11 8872

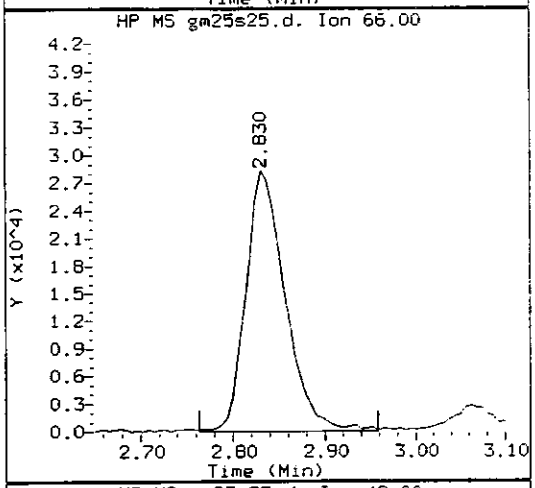
Reference Standard Spectrum for Chloroethane



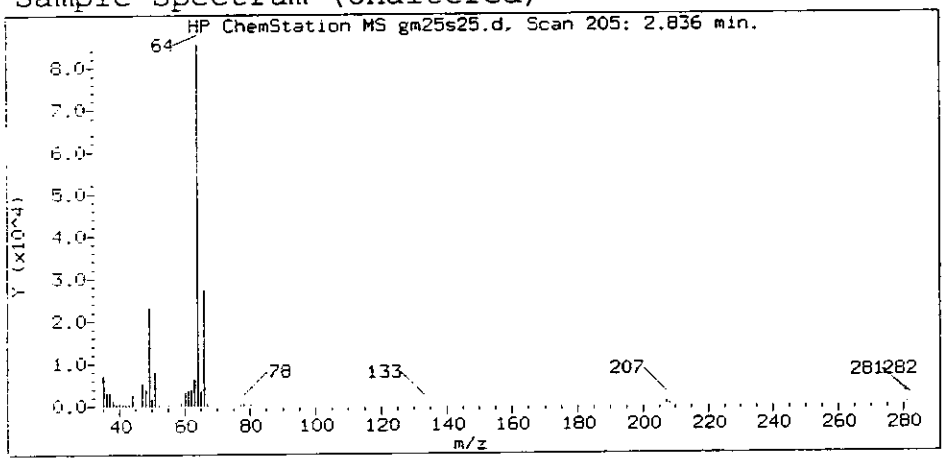


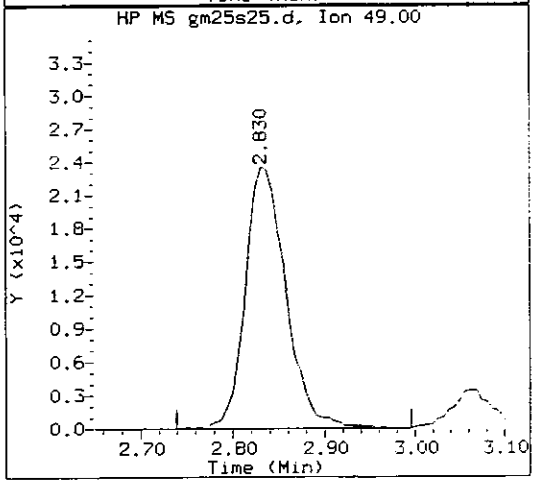
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

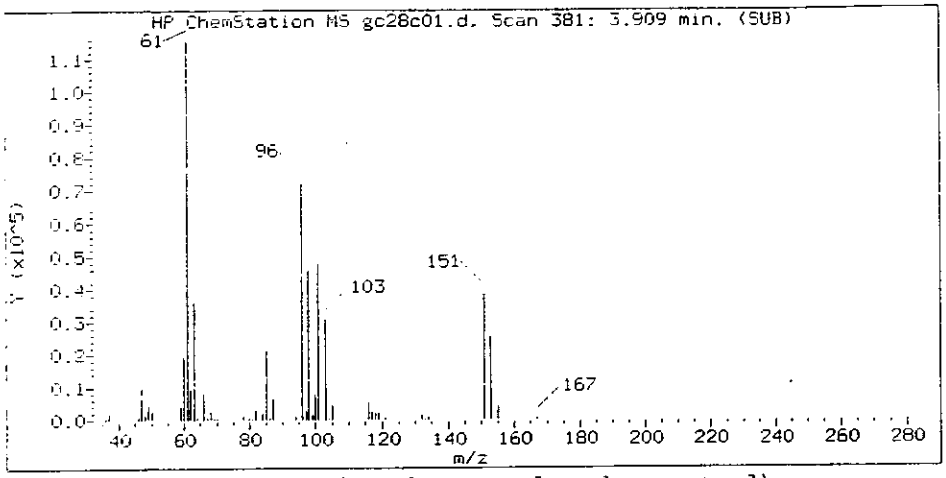
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

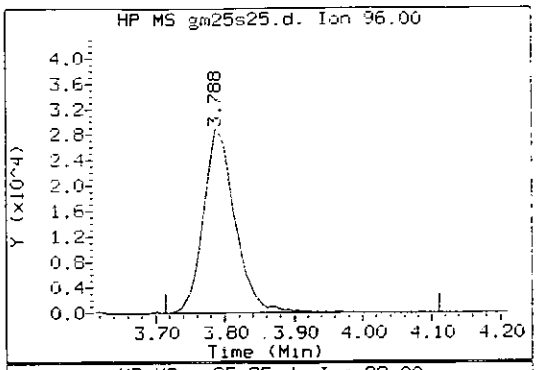
Sample Name: WBREM Lab Sample ID: 5932650

Compound Number	: 5
Compound Name	: Chloroethane
Scan Number	: 205
Retention Time (minutes)	: 2.836
Quant Ion	: 64.0
Area (flag)	: 252590
Concentration (ug/L)	: 10.5329

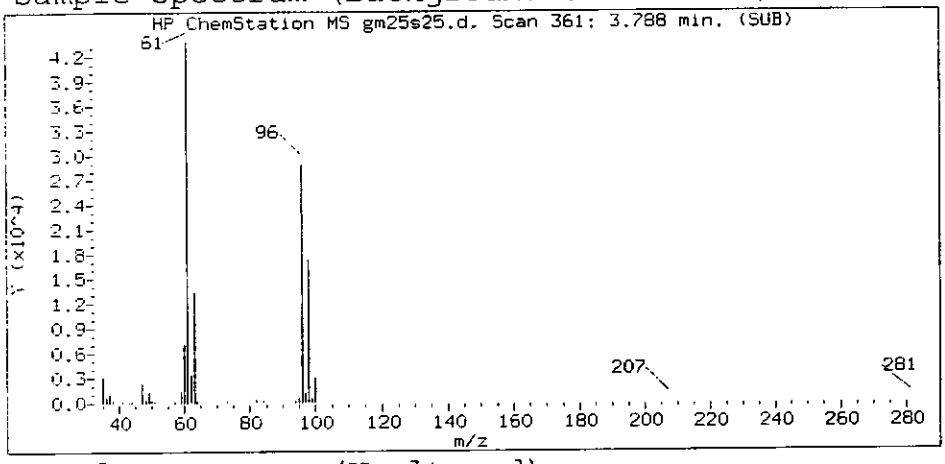
WAT11 0873

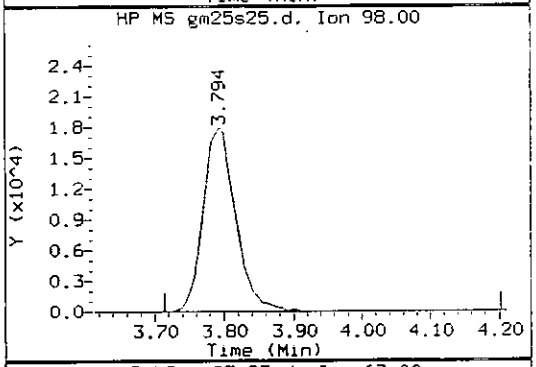
Reference Standard Spectrum for 1,1-Dichloroethene

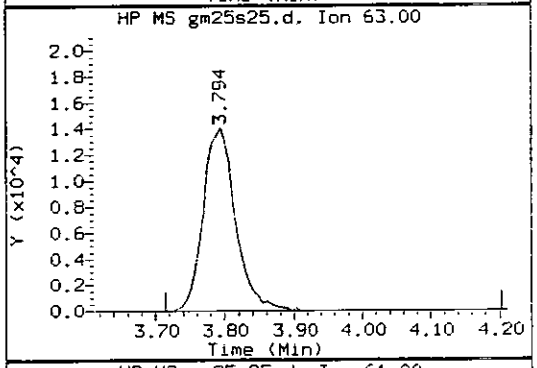




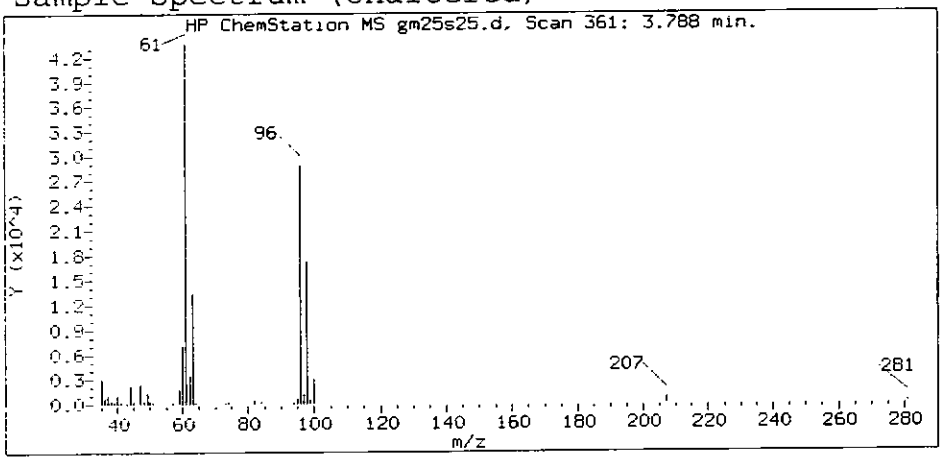
Sample Spectrum (Background Subtracted)

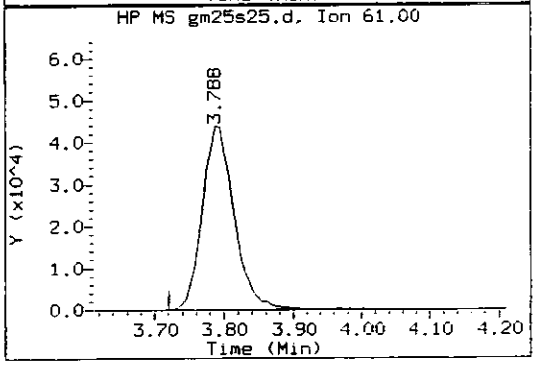






Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

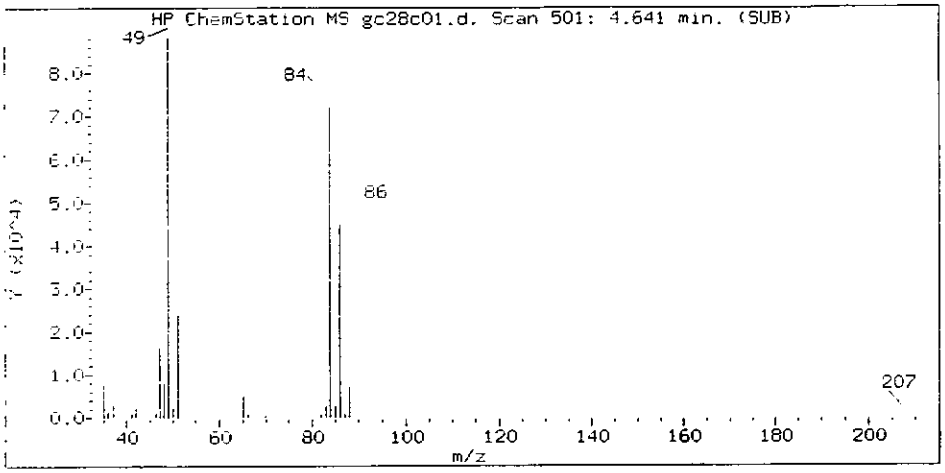
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

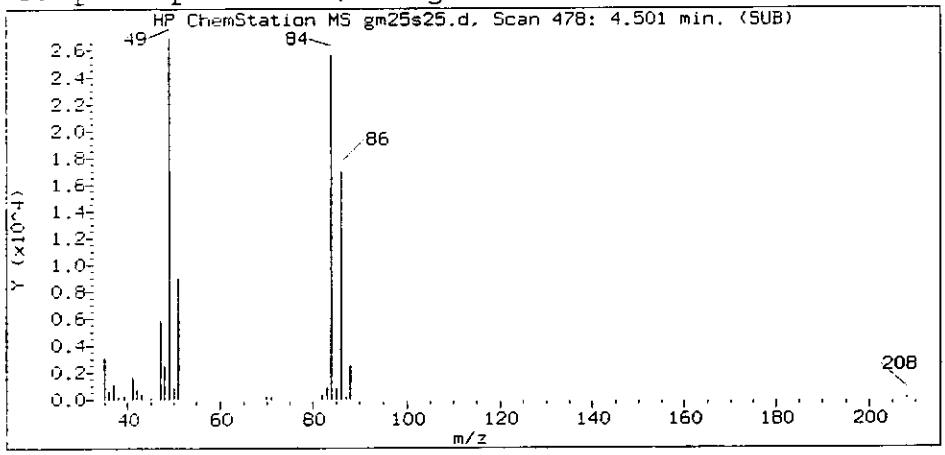
Compound Number	: 10
Compound Name	: 1,1-Dichloroethene
Scan Number	: 361
Retention Time (minutes)	: 3.788
Quant Ion	: 96.0
Area (flag)	: 92391
Concentration (ug/L)	: 1.3948

WAT11 6674

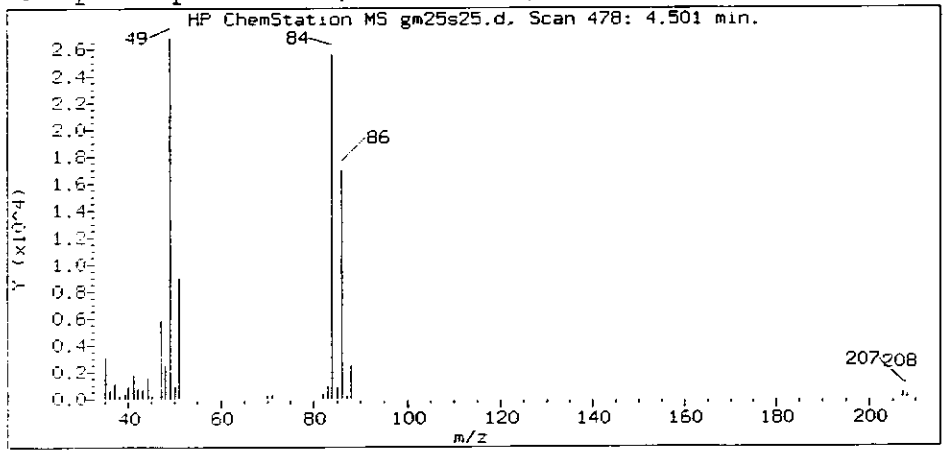
Reference Standard Spectrum for Methylene Chloride

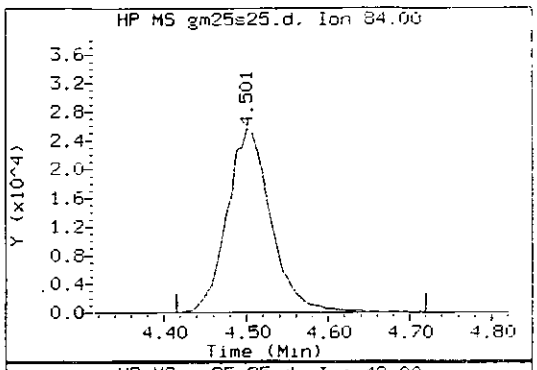


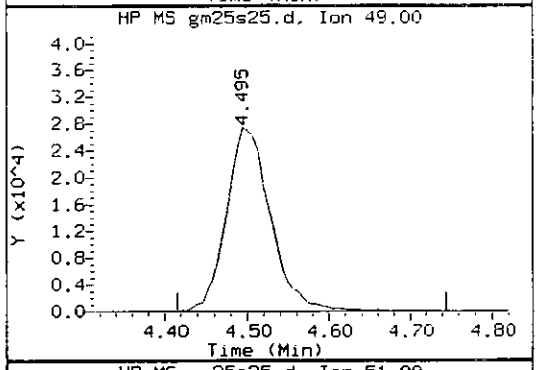
Sample Spectrum (Background Subtracted)

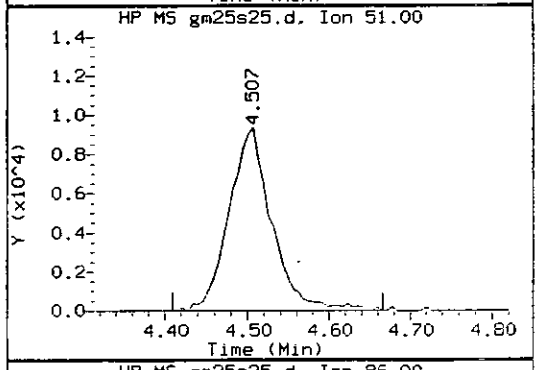


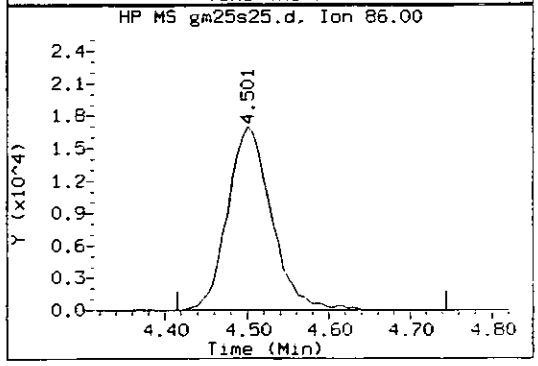
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

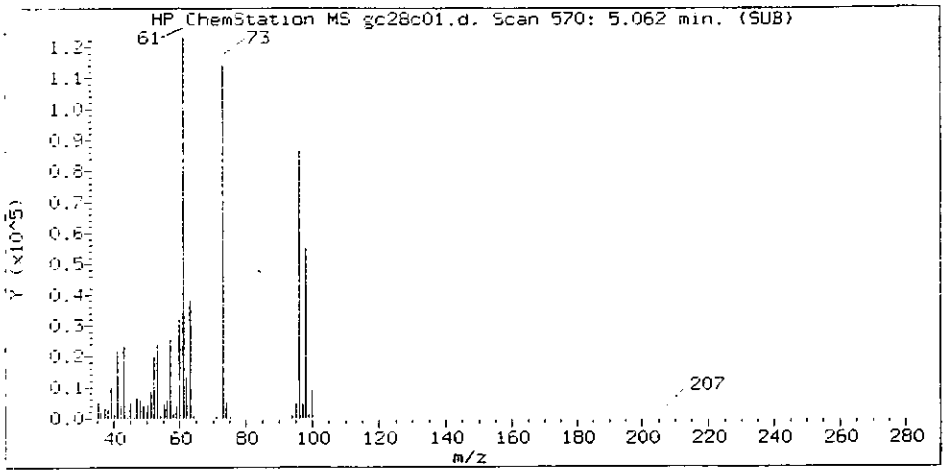
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

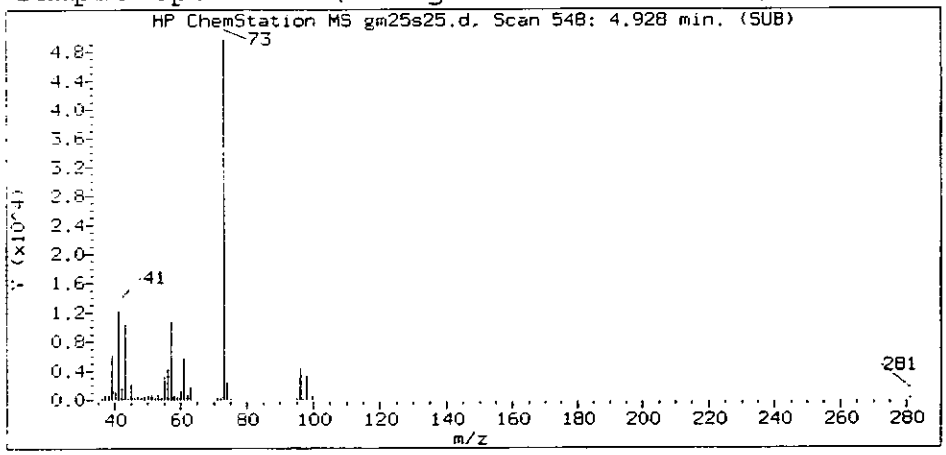
Compound Number	: 17
Compound Name	: Methylene Chloride
Scan Number	: 478
Retention Time (minutes)	: 4.501
Quant Ion	: 84.0
Area (flag)	: 94613
Concentration (ug/L)	: 1.4589

WAT11 0875

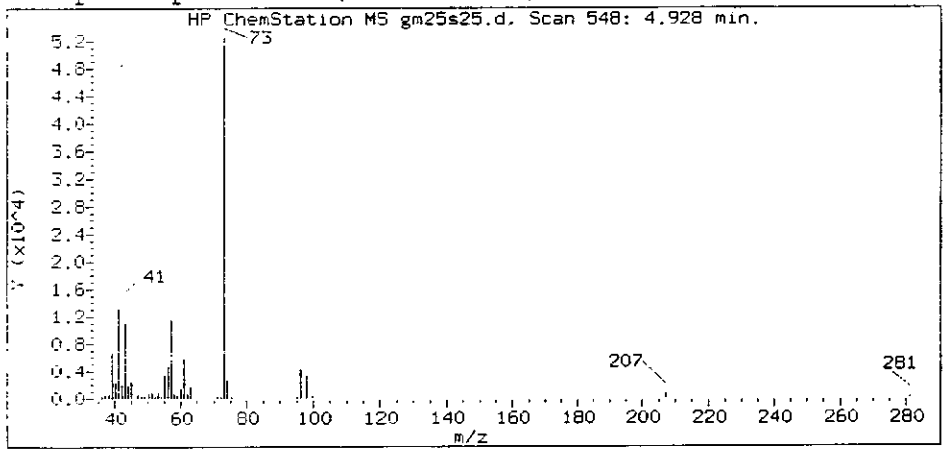
Reference Standard Spectrum for trans-1,2-Dichloroethene

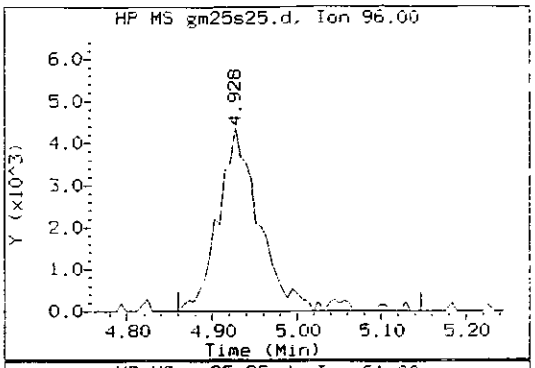


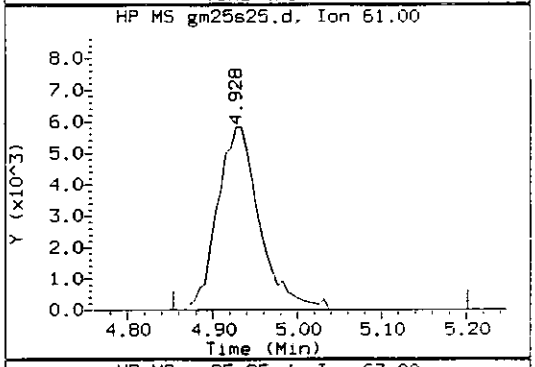
Sample Spectrum (Background Subtracted)

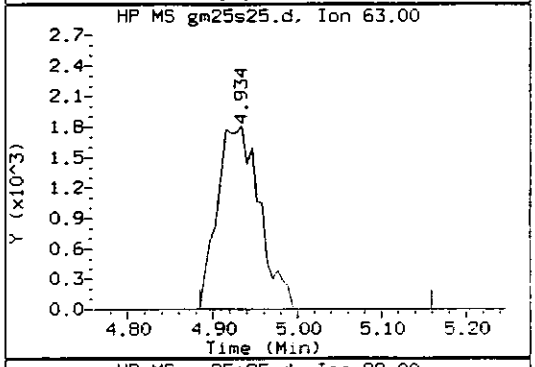


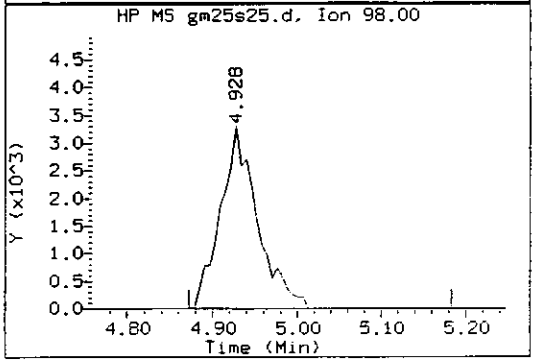
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

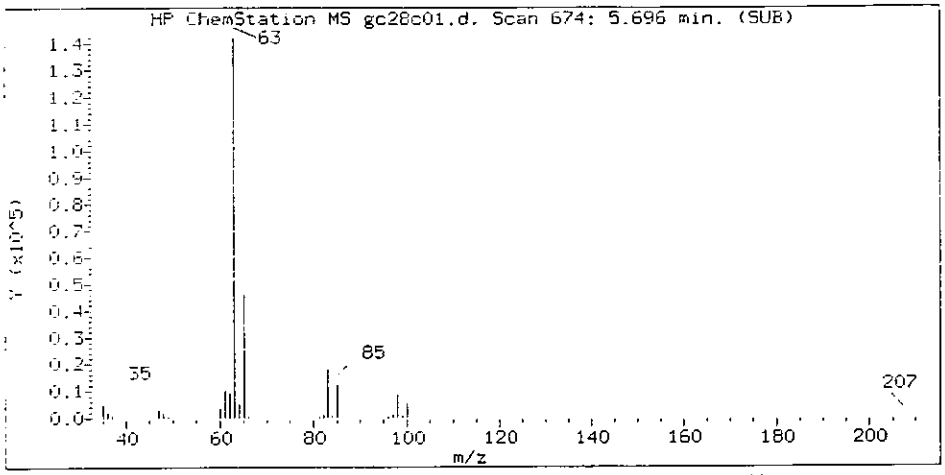
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

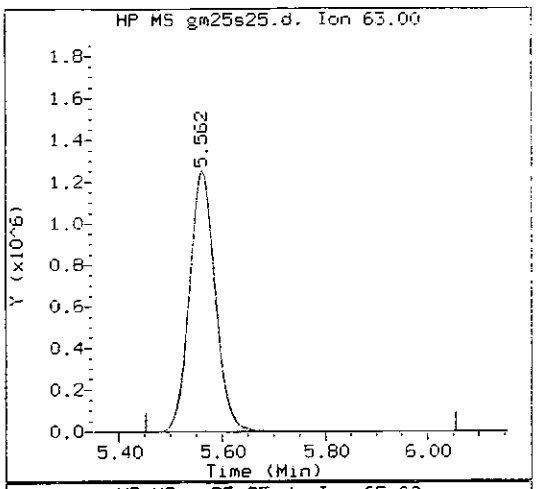
Sample Name: WBREM Lab Sample ID: 5932650

Compound Number	:	20
Compound Name	:	trans-1,2-Dichloroethene
Scan Number	:	548
Retention Time (minutes)	:	4.928
Quant Ion	:	96.0
Area (flag)	:	15023
Concentration (ug/L)	:	0.1937

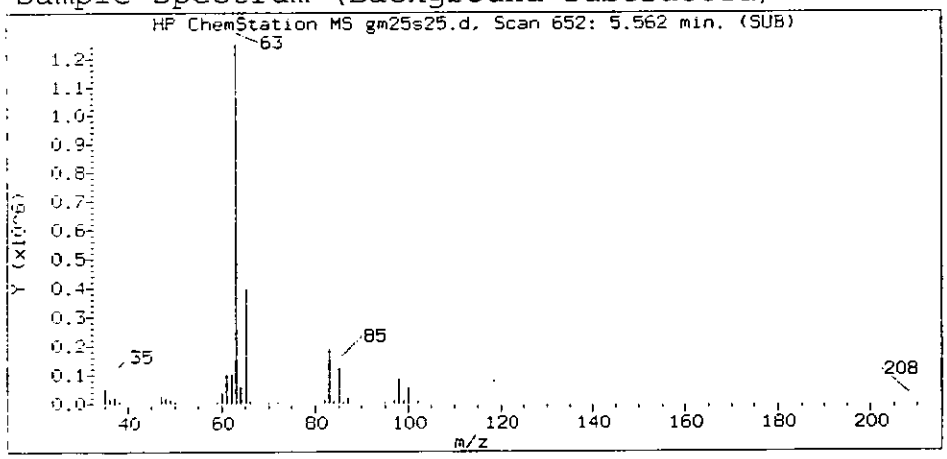
WAT11 0876

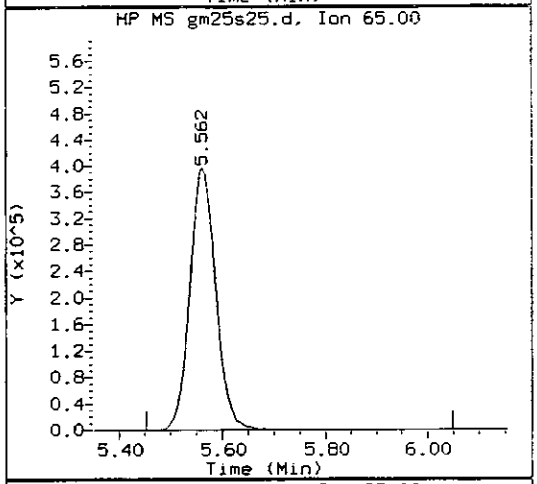
Reference Standard Spectrum for 1,1-Dichloroethane



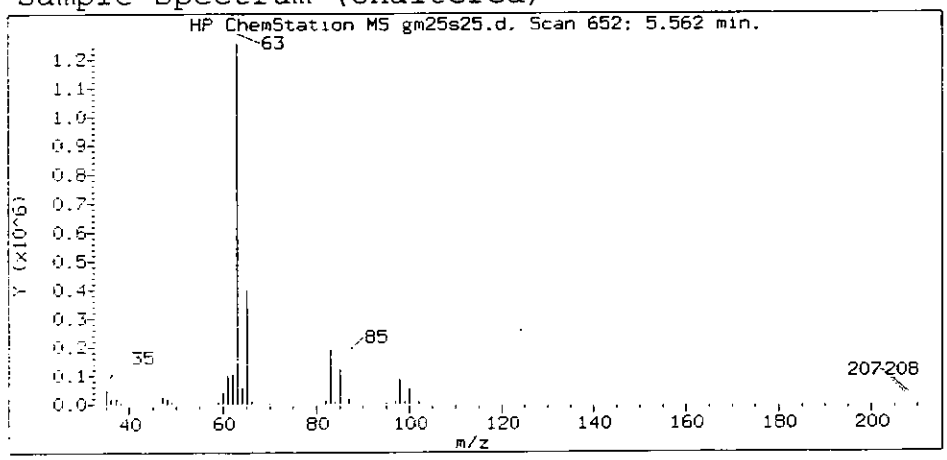


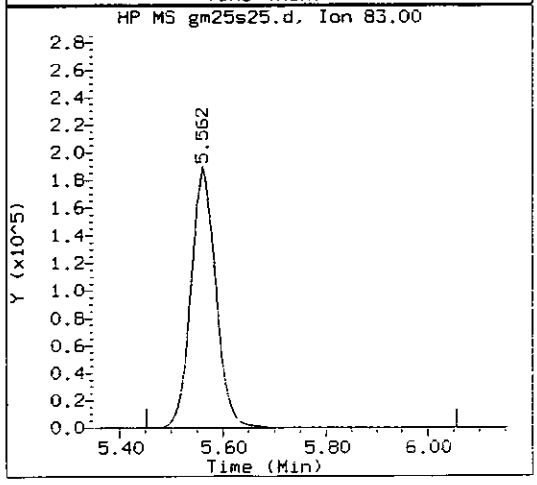
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

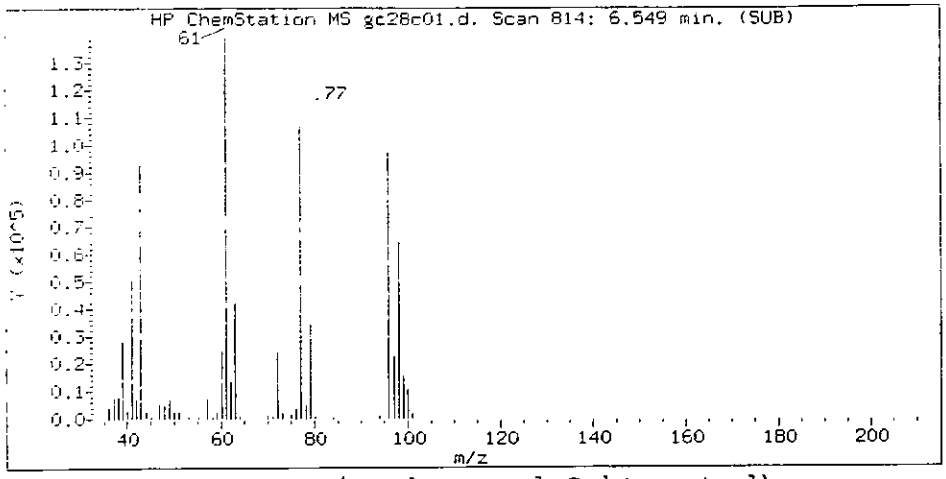
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

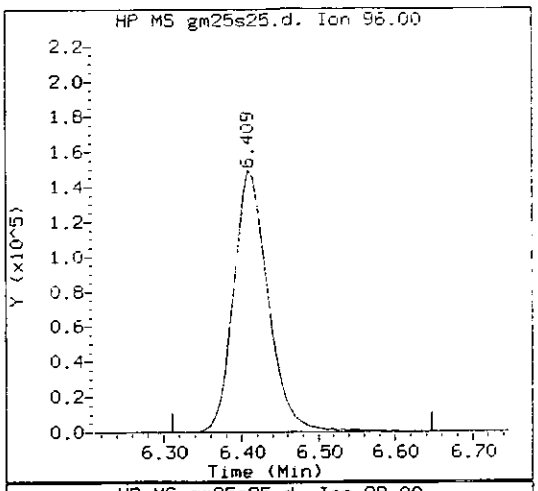
Sample Name: WBREM Lab Sample ID: 5932650

Compound Number	: 22
Compound Name	: 1,1-Dichloroethane
Scan Number	: 652
Retention Time (minutes)	: 5.562
Quant Ion	: 63.0
Area (flag)	: 4383752
Concentration (ug/L)	: 35.1762

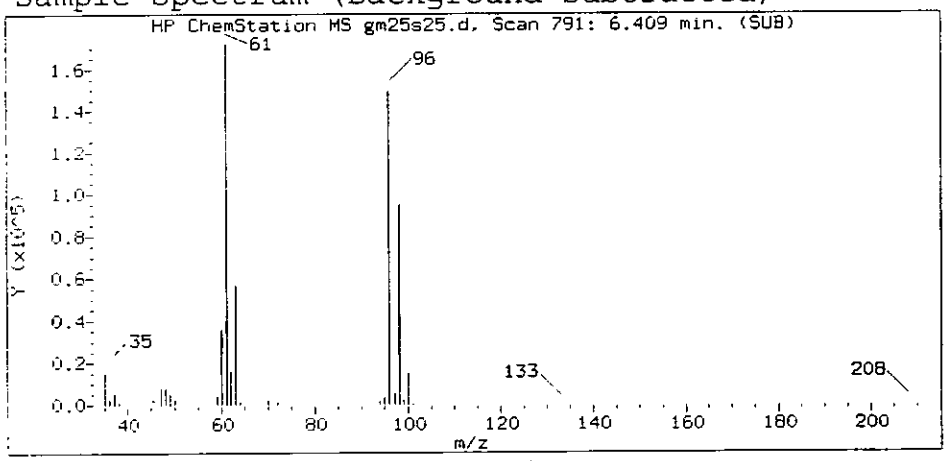
WAT11 0077

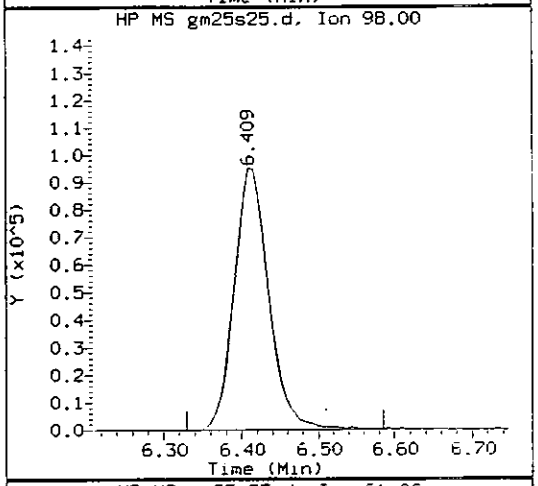
Reference Standard Spectrum for cis-1,2-Dichloroethene



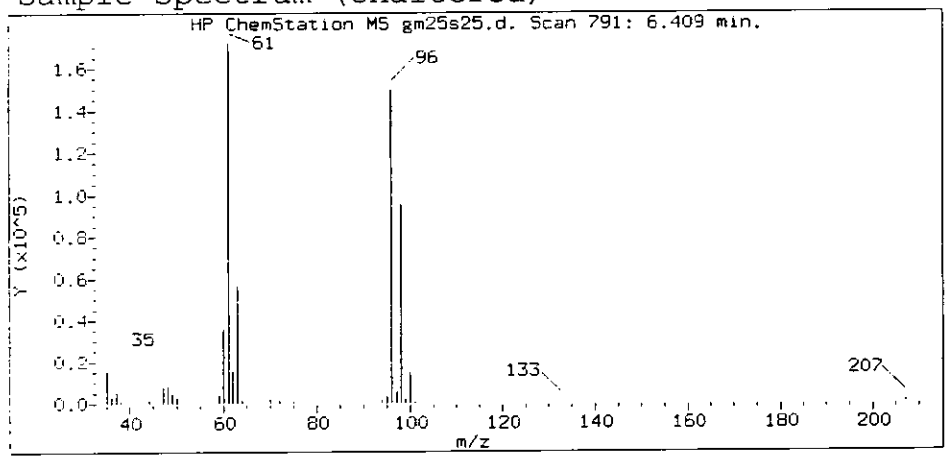


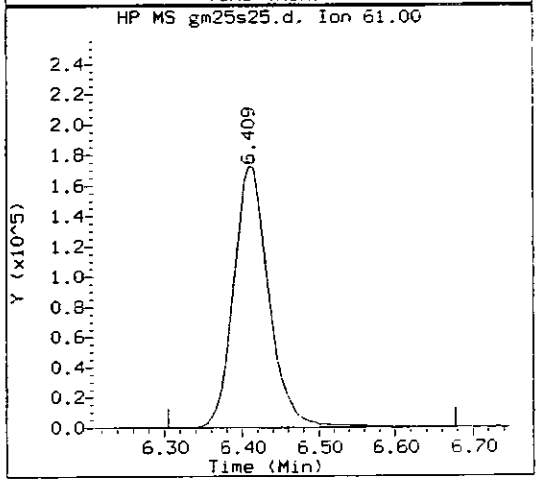
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

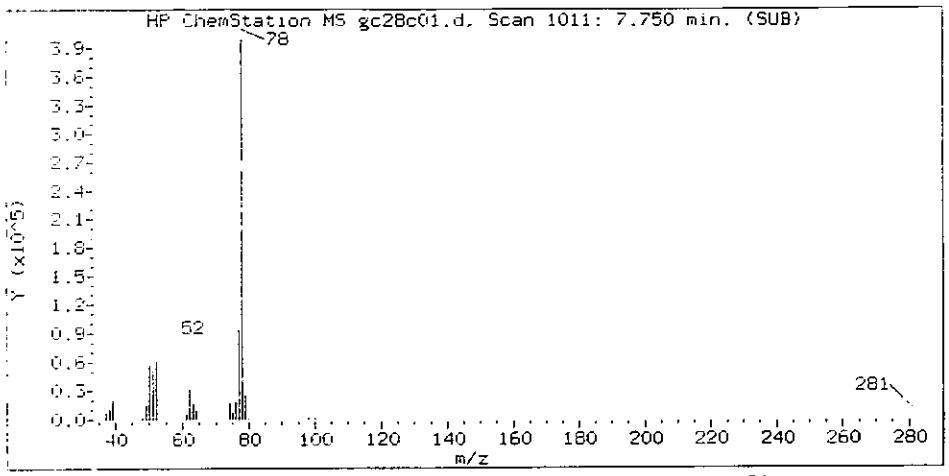
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

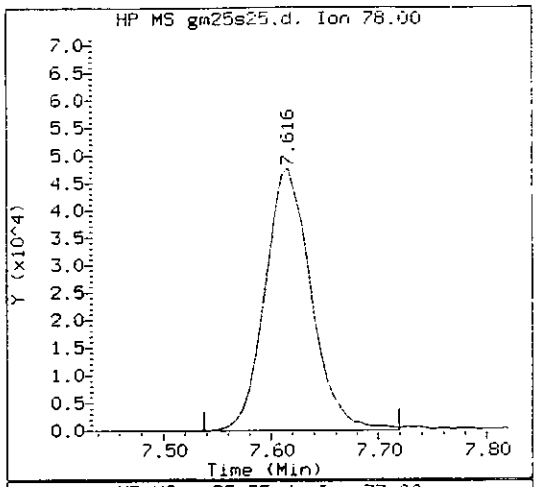
Sample Name: WBREM Lab Sample ID: 5932650

Compound Number	: 26
Compound Name	: cis-1,2-Dichloroethene
Scan Number	: 791
Retention Time (minutes)	: 6.409
Quant Ion	: 96.0
Area (flag)	: 468503
Concentration (ug/L)	: 6.1827

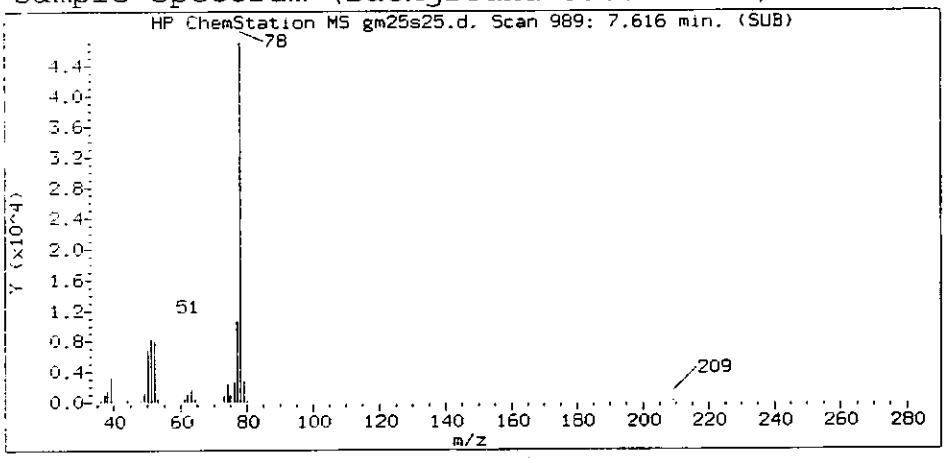
WAT11 0078

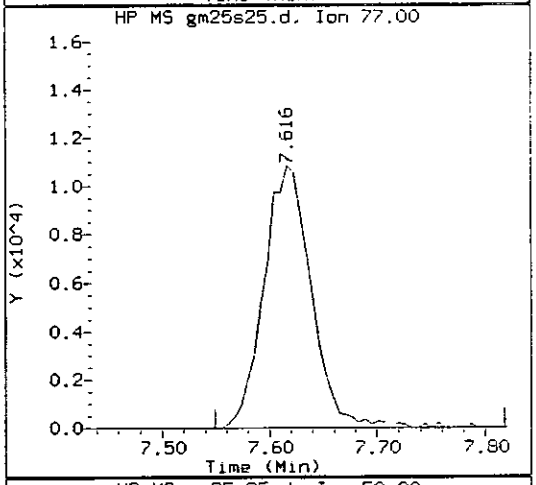
Reference Standard Spectrum for Benzene



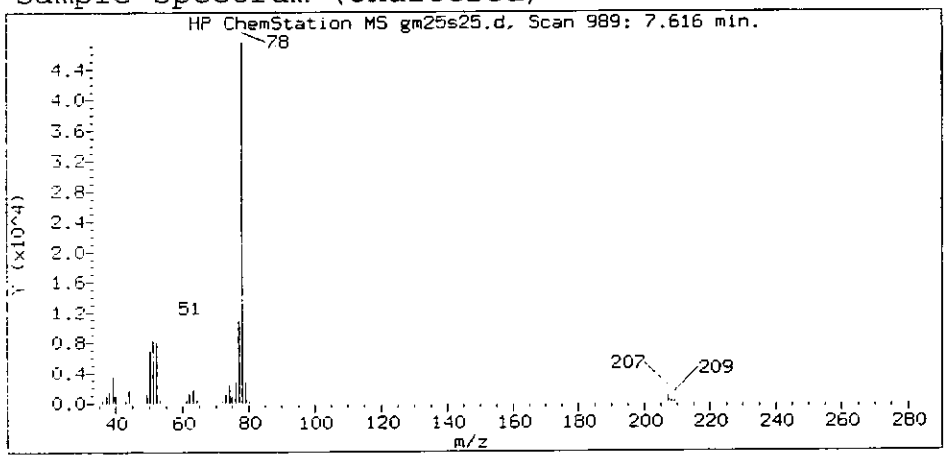


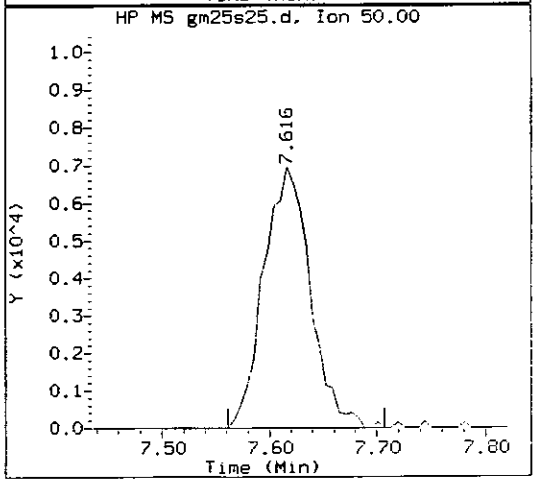
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

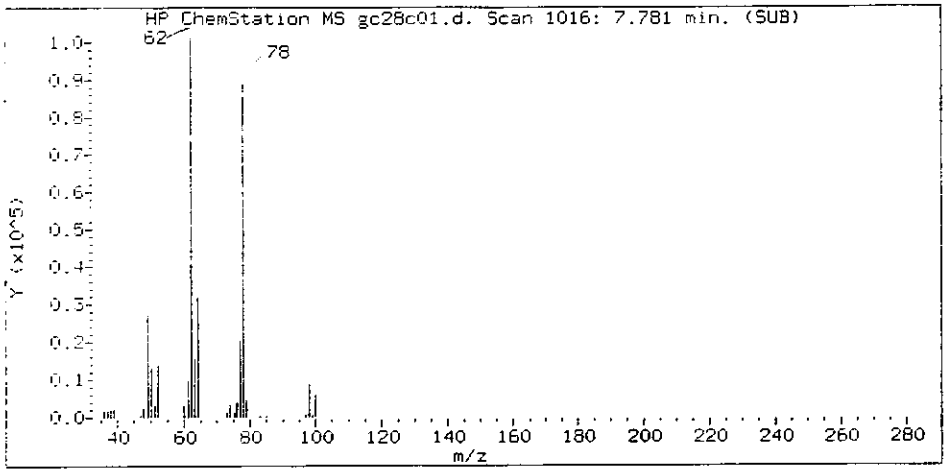
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

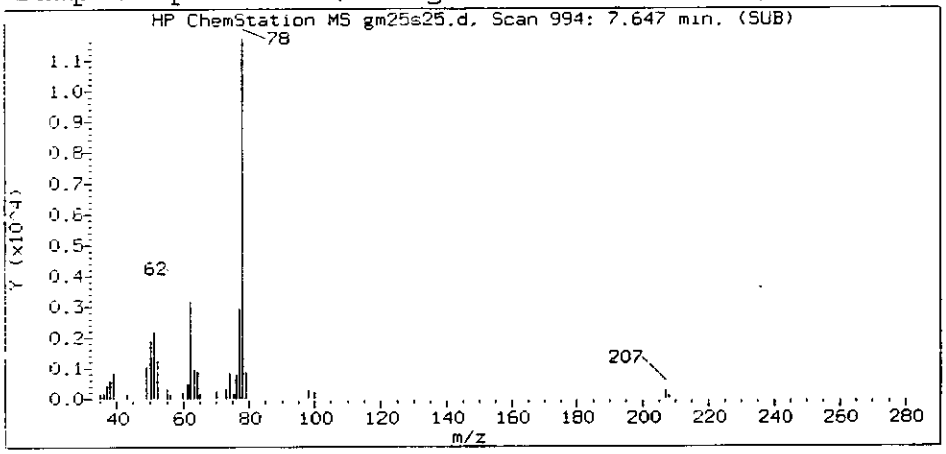
Compound Number	: 39
Compound Name	: Benzene
Scan Number	: 989
Retention Time (minutes)	: 7.616
Quant Ion	: 78.0
Area (flag)	: 141692
Concentration (ug/L)	: 0.4874

WAT11 0079

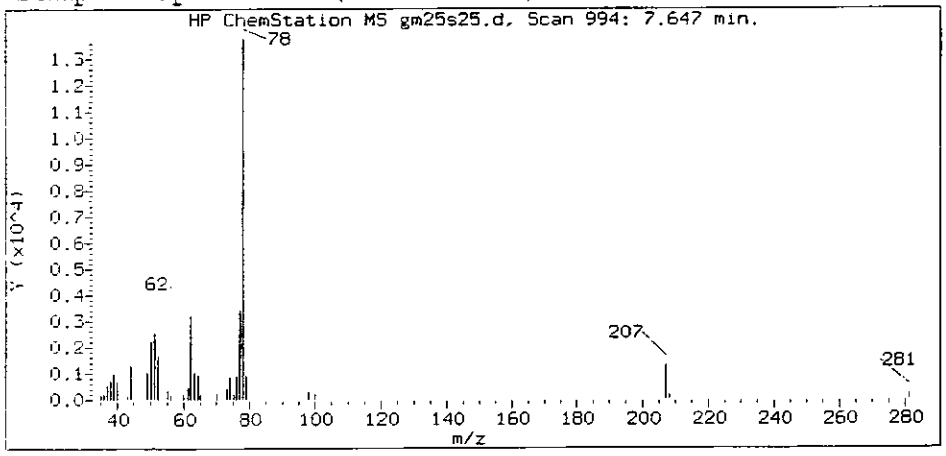
Reference Standard Spectrum for 1,2-Dichloroethane

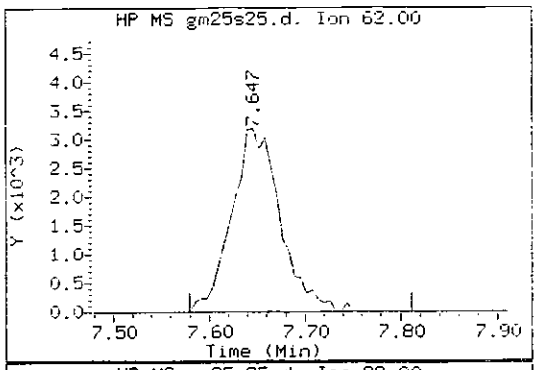


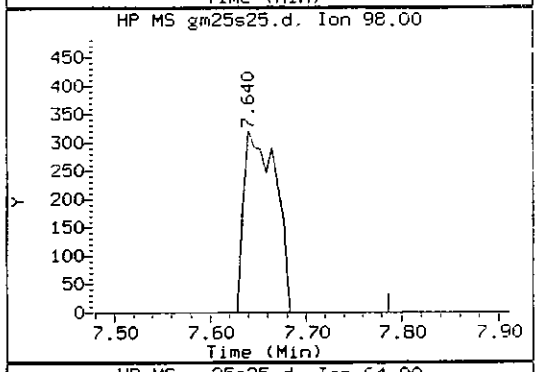
Sample Spectrum (Background Subtracted)

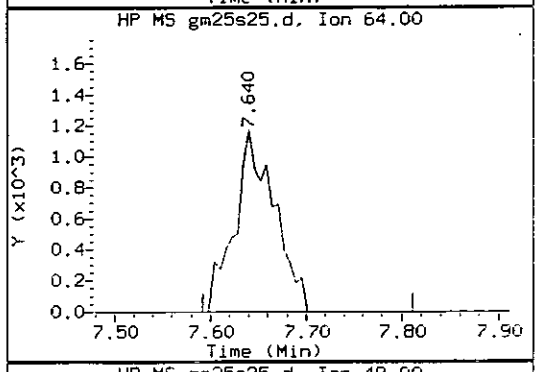


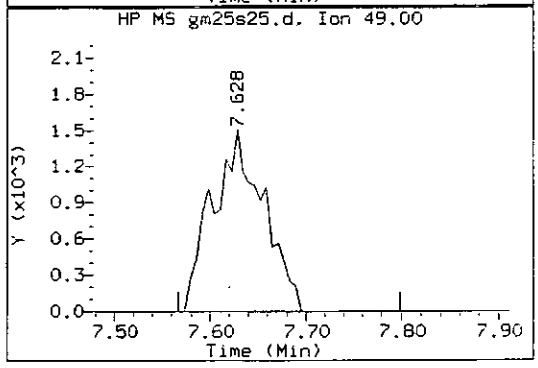
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

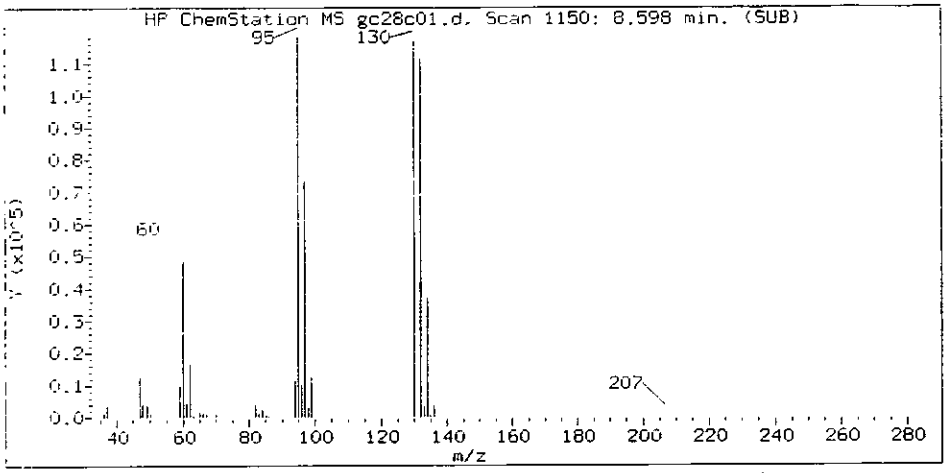
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

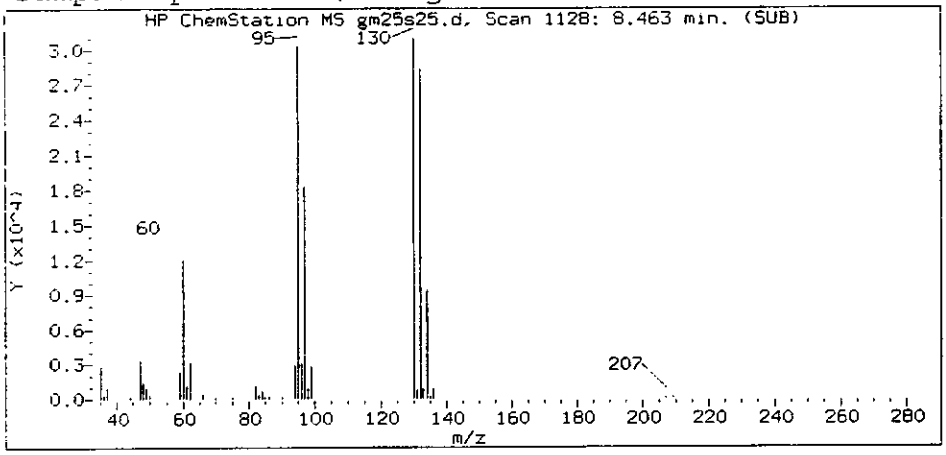
Compound Number	: 40
Compound Name	: 1,2-Dichloroethane
Scan Number	: 994
Retention Time (minutes)	: 7.647
Quant Ion	: 62.0
Area (flag)	: 11347
Concentration (ug/L)	: 0.1972

WAT11 0888

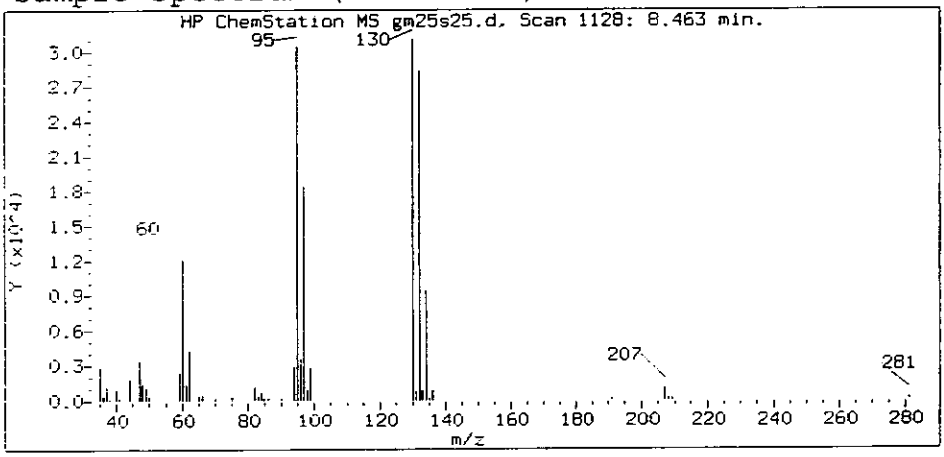
Reference Standard Spectrum for Trichloroethene

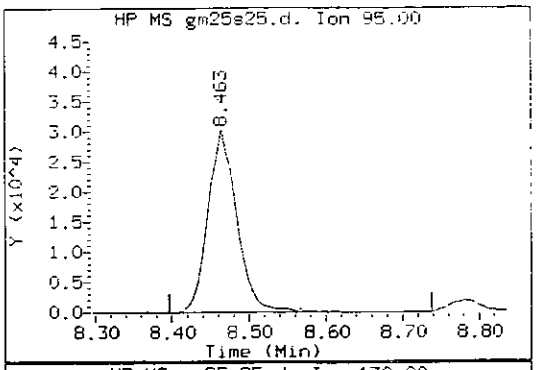


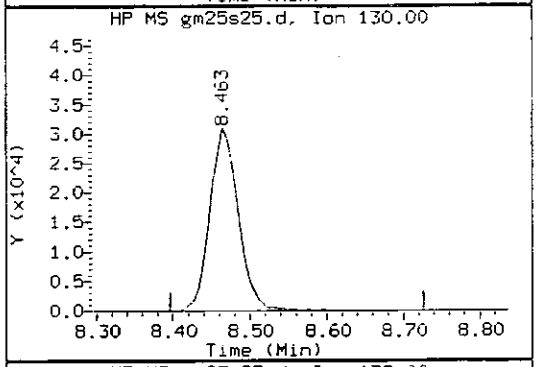
Sample Spectrum (Background Subtracted)

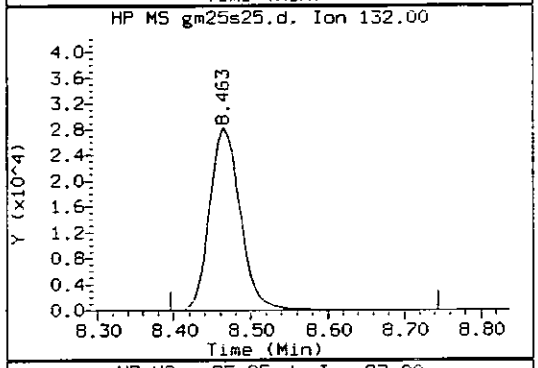


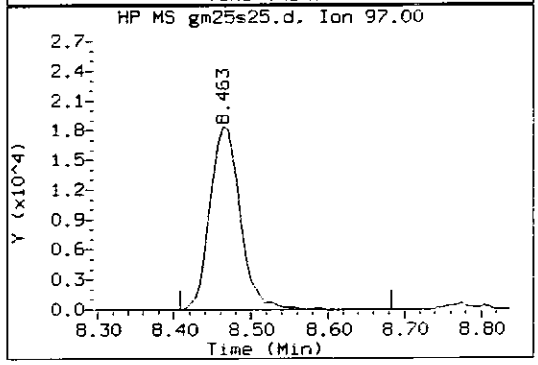
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

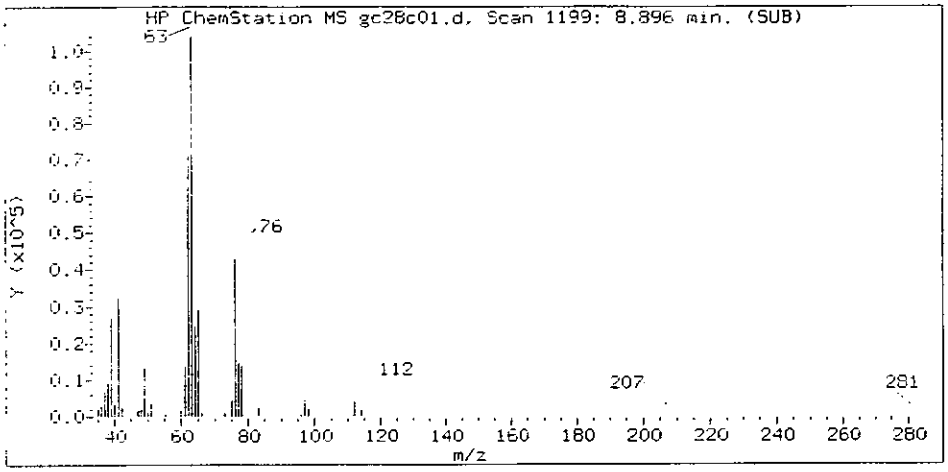
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

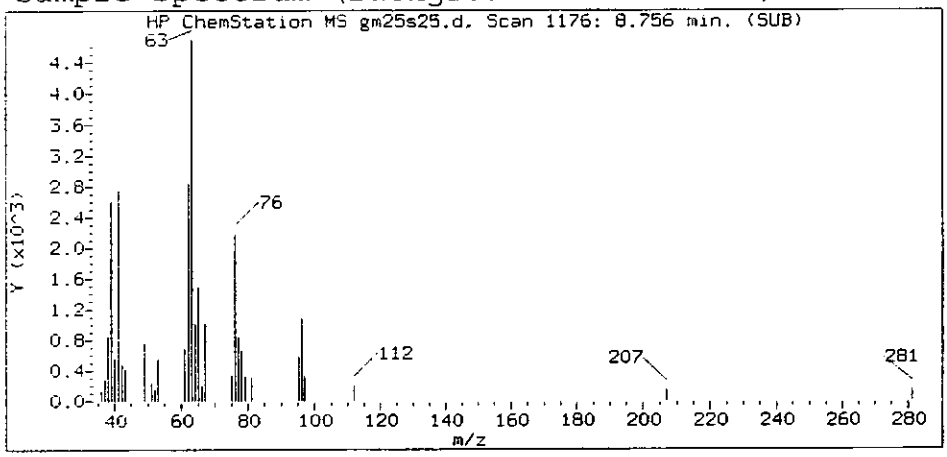
Compound Number	: 43
Compound Name	: Trichloroethene
Scan Number	: 1128
Retention Time (minutes)	: 8.463
Quant Ion	: 95.0
Area (flag)	: 79037
Concentration (ug/L)	: 0.9301

WAT11 0081

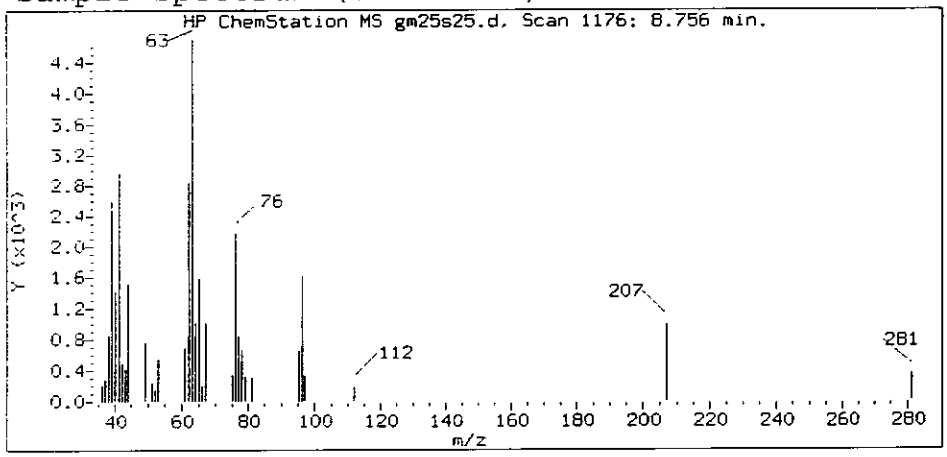
Reference Standard Spectrum for 1,2-Dichloropropane

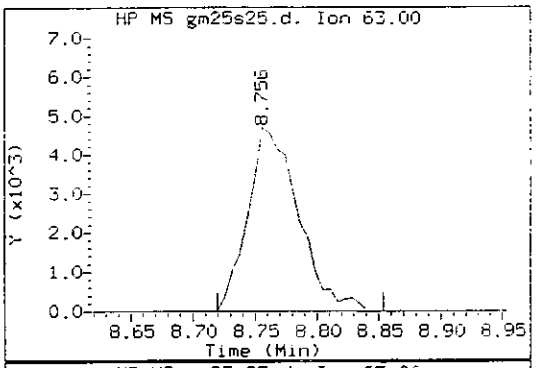


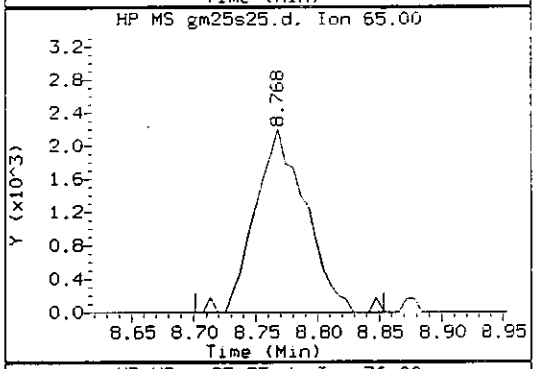
Sample Spectrum (Background Subtracted)

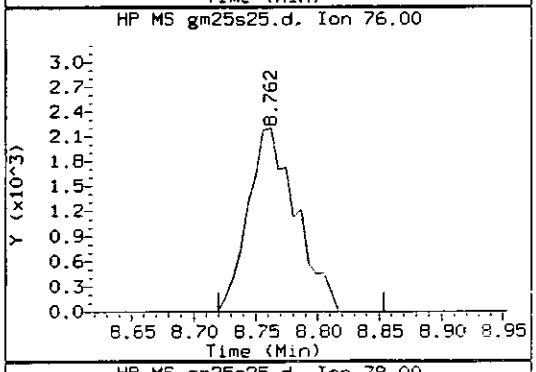


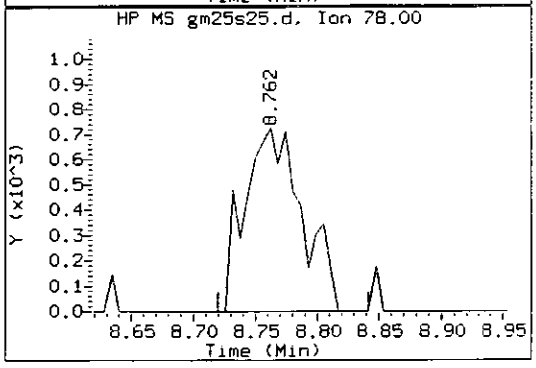
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

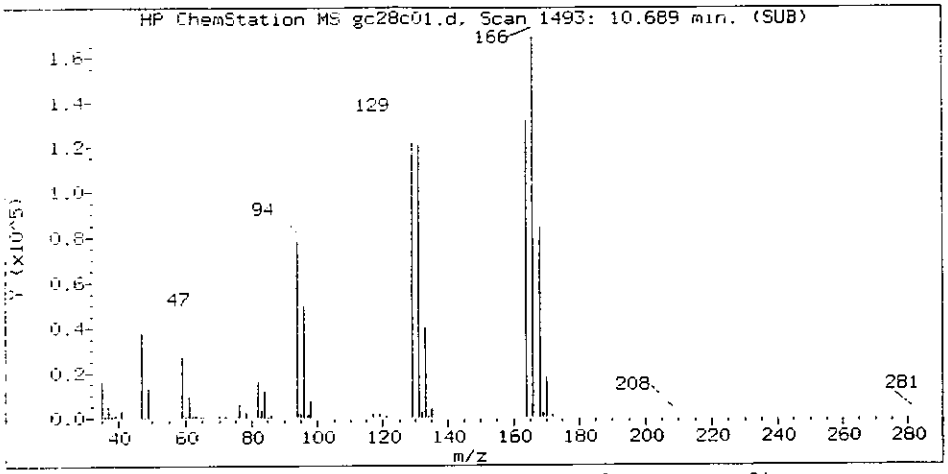
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

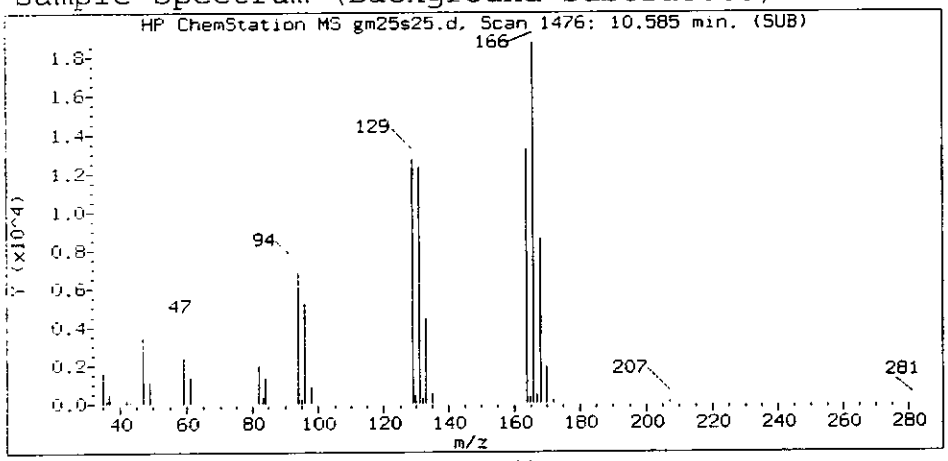
Compound Number	: 44
Compound Name	: 1,2-Dichloropropane
Scan Number	: 1176
Retention Time (minutes)	: 8.756
Quant Ion	: 63.0
Area (flag)	: 13311
Concentration (ug/L)	: 0.2205

WAT11 6882

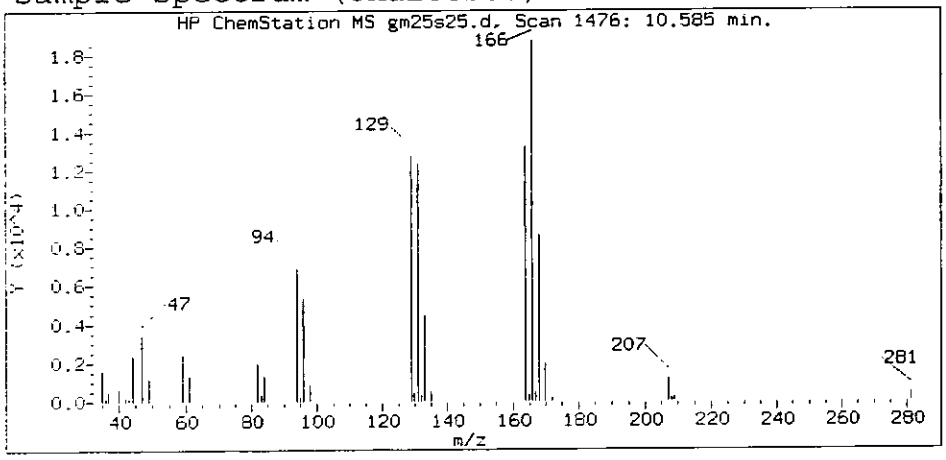
Reference Standard Spectrum for Tetrachloroethene

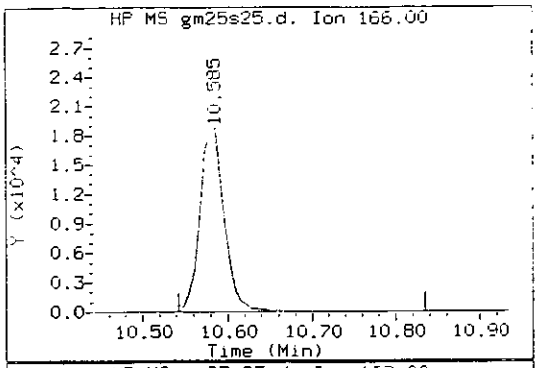


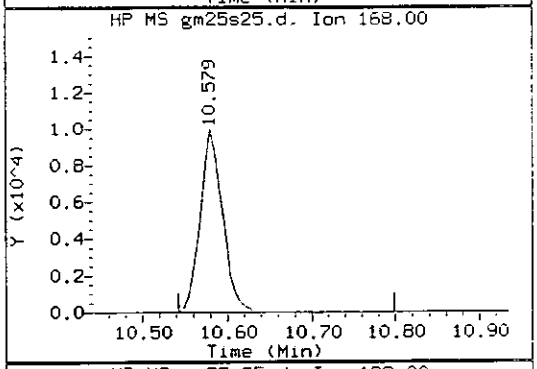
Sample Spectrum (Background Subtracted)

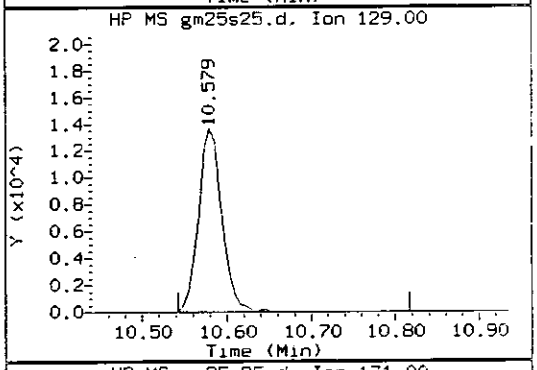


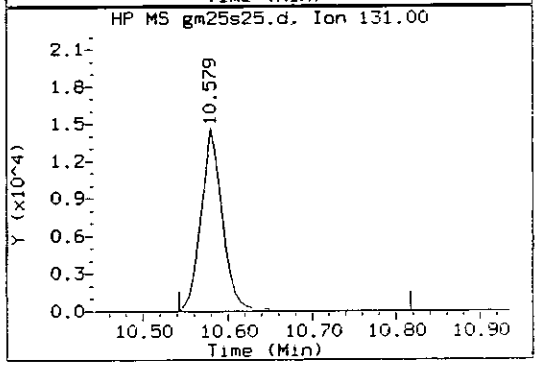
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

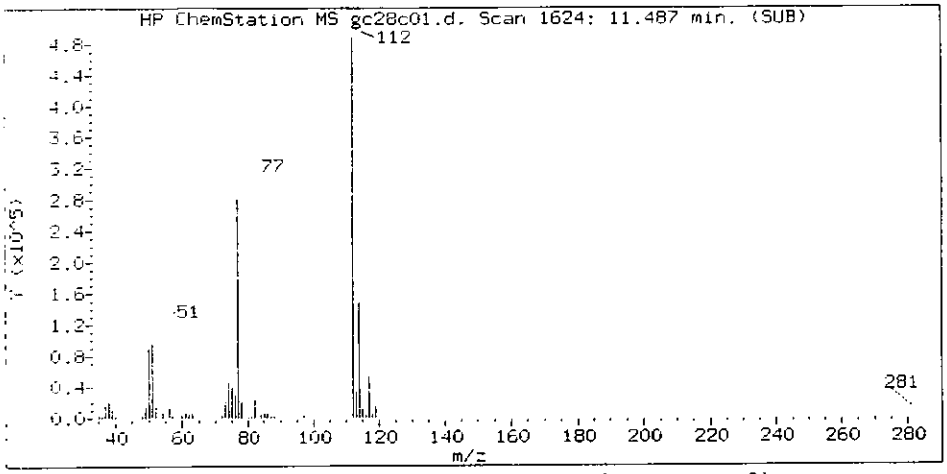
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

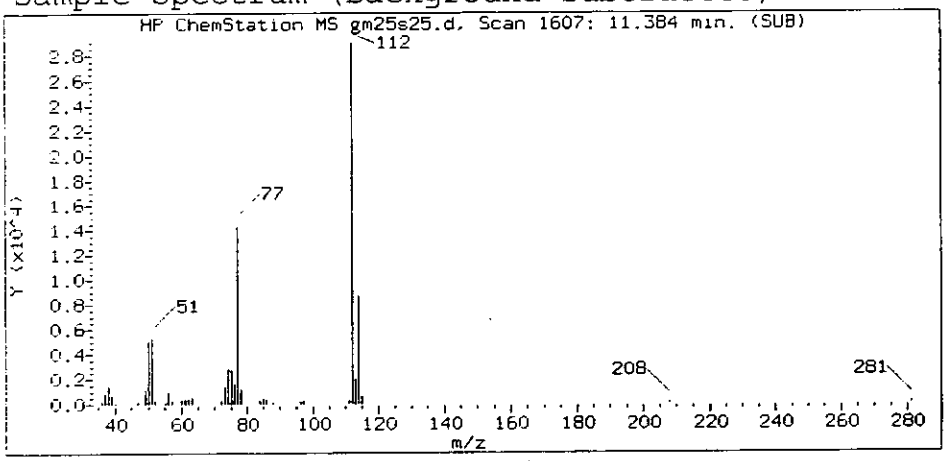
Compound Number	:	58
Compound Name	:	Tetrachloroethene
Scan Number	:	1476
Retention Time (minutes)	:	10.585
Quant Ion	:	166.0
Area (flag)	:	37220
Concentration (ug/L)	:	0.3842

WAT11 0603

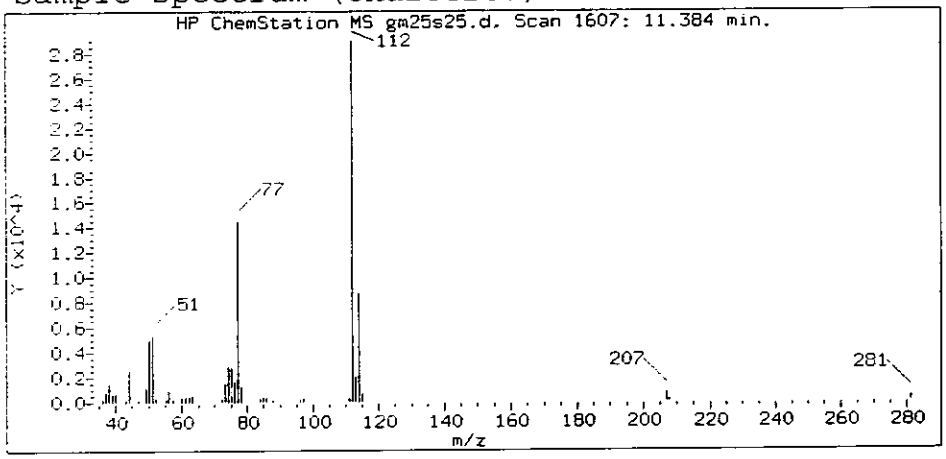
Reference Standard Spectrum for Chlorobenzene

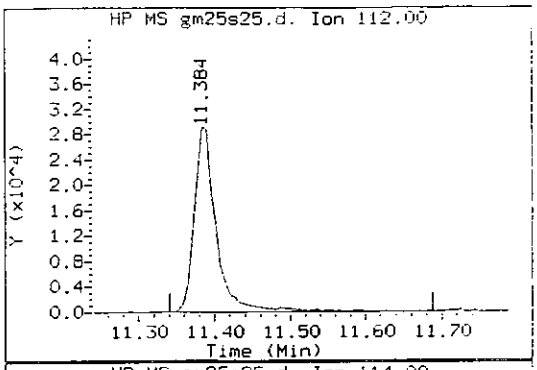


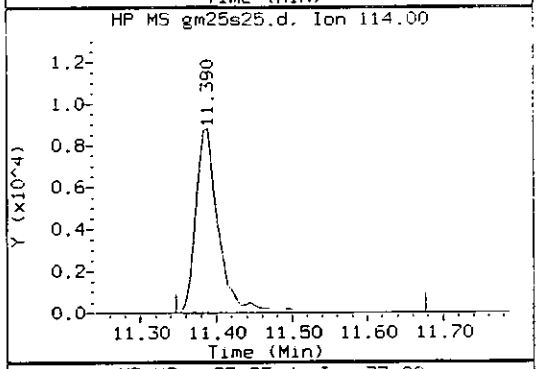
Sample Spectrum (Background Subtracted)

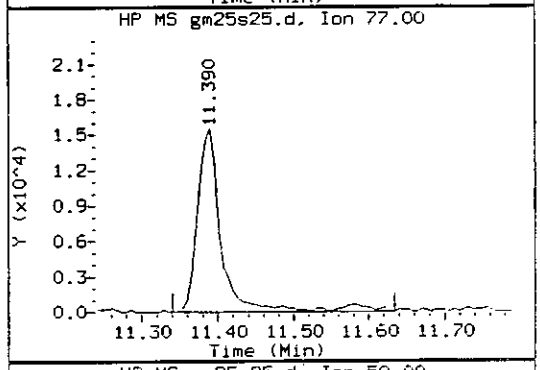


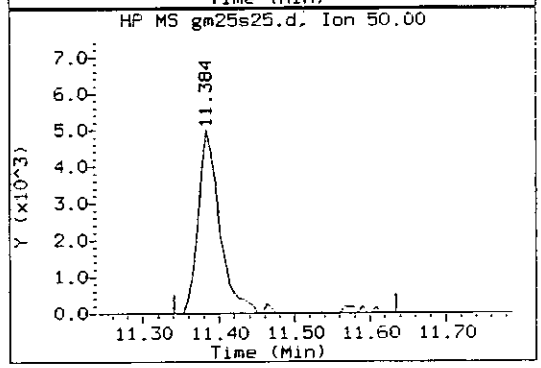
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

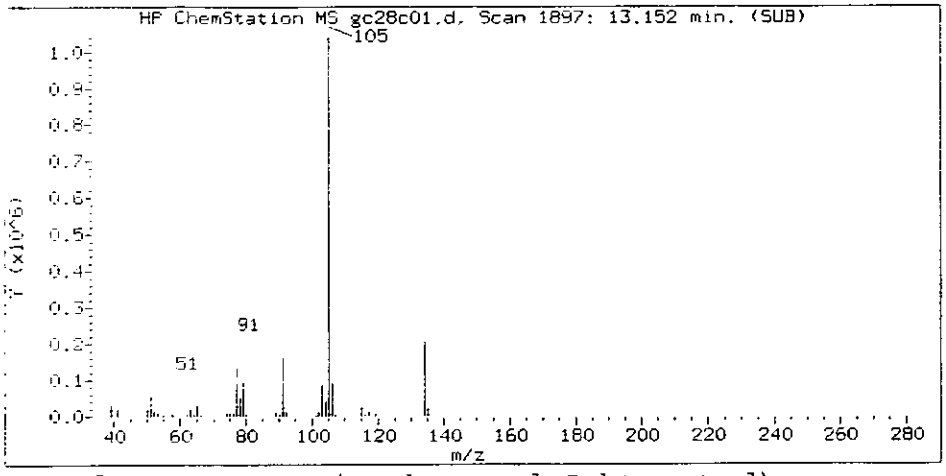
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

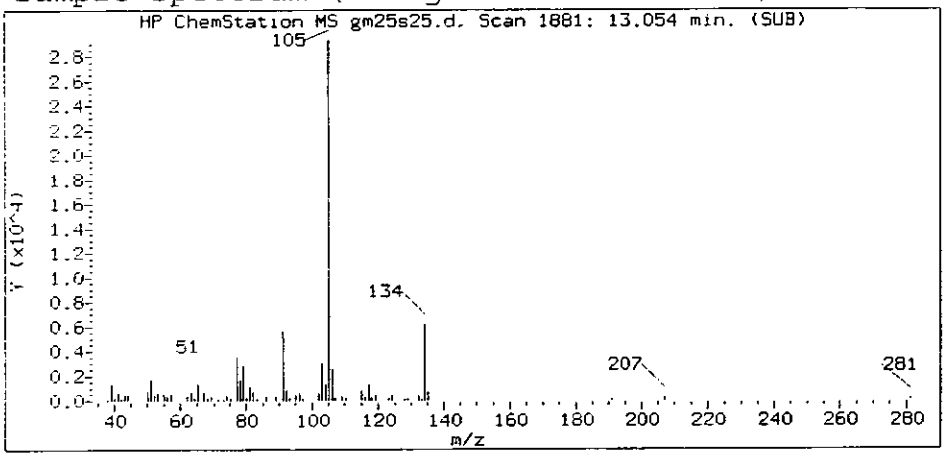
Compound Number	:	64
Compound Name	:	Chlorobenzene
Scan Number	:	1607
Retention Time (minutes)	:	11.384
Quant Ion	:	112.0
Area (flag)	:	58931
Concentration (ug/L)	:	0.2968

WAT11 0684

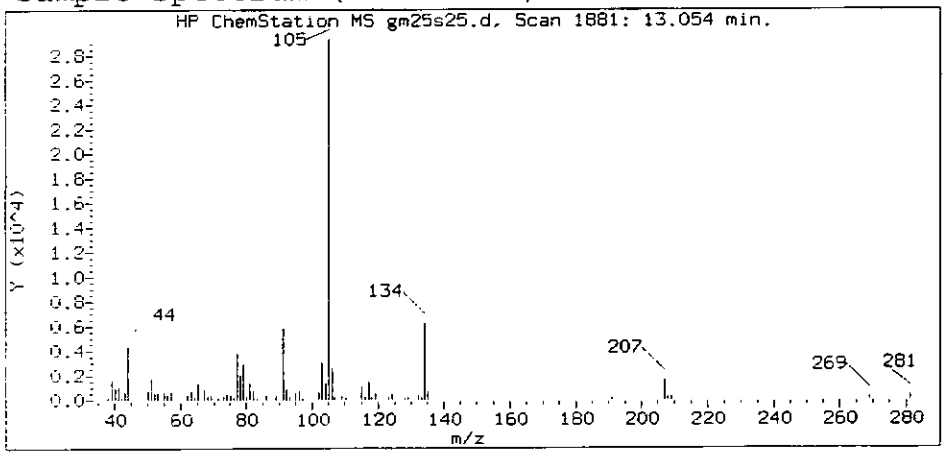
Reference Standard Spectrum for sec-Butylbenzene

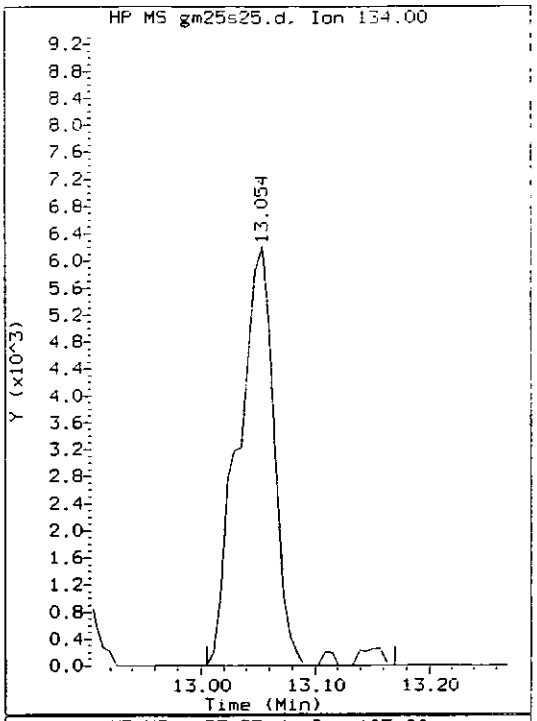


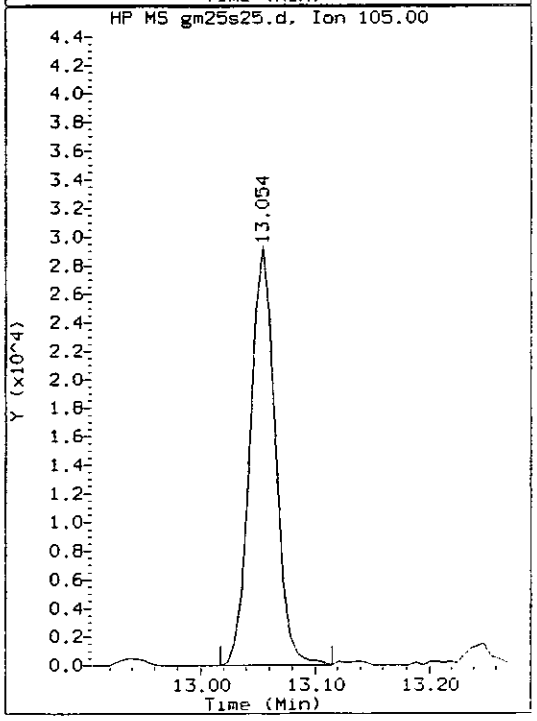
Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)







Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

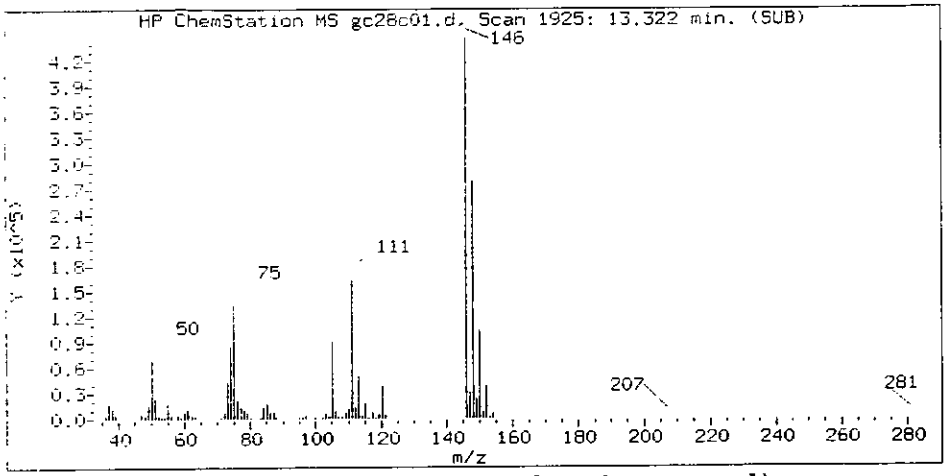
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

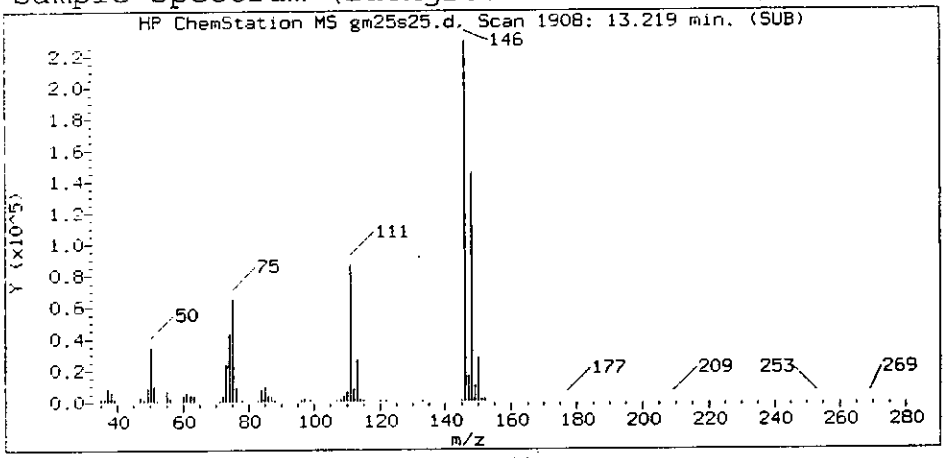
Compound Number	:	85
Compound Name	:	sec-Butylbenzene
Scan Number	:	1881
Retention Time (minutes)	:	13.054
Quant Ion	:	134.0
Area (flag)	:	13818
Concentration (ug/L)	:	0.1593

WAT11 0885

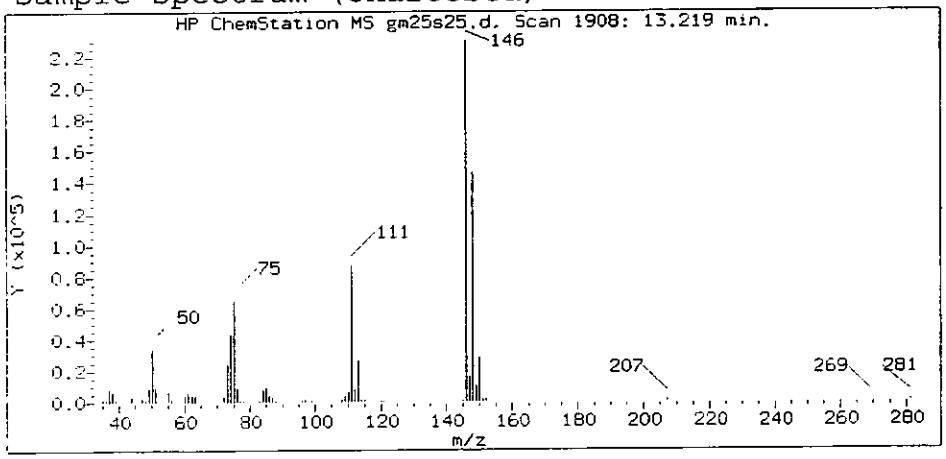
Reference Standard Spectrum for 1,4-Dichlorobenzene

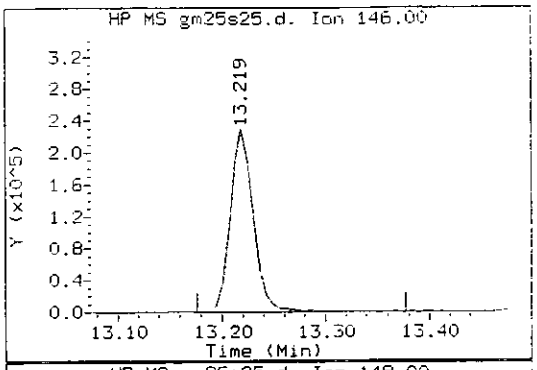


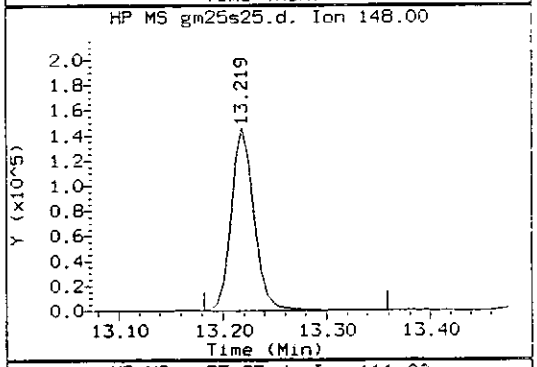
Sample Spectrum (Background Subtracted)

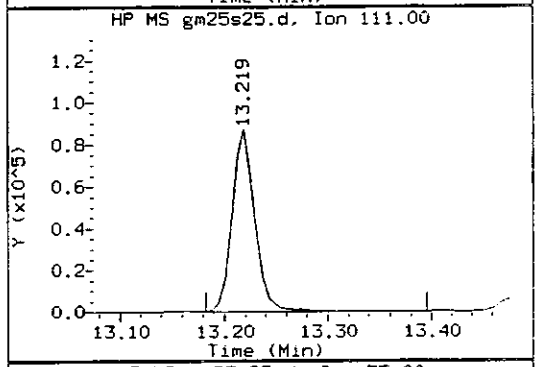


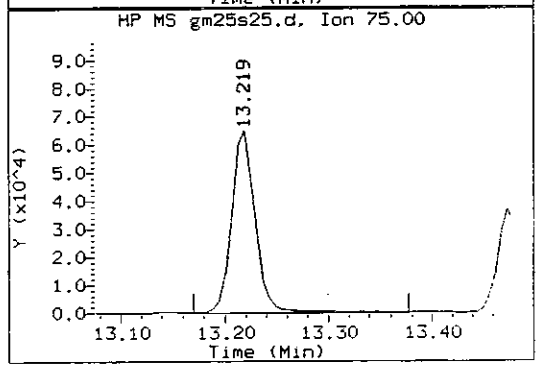
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s25.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:30 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:07 lcm01518

Sample Name: WBREM Lab Sample ID: 5932650

Compound Number	: 88
Compound Name	: 1,4-Dichlorobenzene
Scan Number	: 1908
Retention Time (minutes)	: 13.219
Quant Ion	: 146.0
Area (flag)	: 358616
Concentration (ug/L)	: 2.2605

WAT11 0886

WBREMDL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932650

File: /chem2/HP16334.i/10mar25a.b/gm25s26.d
Sample: WBREMDL;5932650;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:52
Calibration Time: 25-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPEPREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 2.5000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:38B

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.988(0.000)	1050	96	1857528(-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)	12.328(0.000)	174	488629	4.963	99%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(0.000)	152	516592	5.401	108%		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.	Qual.	Reporting Limit	LOQ
1) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
2) Chloromethane	(1)				ND	ND			2.00	5.00
3) Vinyl Chloride	(1)				ND	ND			1.00	5.00
4) Bromomethane	(1)				ND	ND			1.00	5.00
5) Chloroethane	(1)	2.836(-0.001)	64	21169	0.886	8.86			2.00	5.00
7) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
10) 1,1-Dichloroethene	(1)	3.787(0.001)	96	7733	0.117	1.17		J	1.00	5.00
17) Methylene Chloride	(1)				ND	ND			3.00	5.00
20) trans-1,2-Dichloroethene	(1)				ND	ND			1.00	5.00
22) 1,1-Dichloroethane	(1)	5.562(0.001)	63	353625	2.850	28.50			1.00	5.00
26) cis-1,2-Dichloroethene	(1)	6.415(0.000)	96	36579	0.485	4.85		J	1.00	5.00
27) 2,2-Dichloropropane	(1)				ND	ND			2.00	5.00
32) Bromochloromethane	(1)				ND	ND			1.00	5.00
34) Chloroform	(1)				ND	ND			1.00	5.00
35) 1,1,1-Trichloroethane	(1)				ND	ND			1.00	5.00
37) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
38) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
39) Benzene	(1)				ND	ND			1.00	5.00
40) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
43) Trichloroethene	(1)				ND	ND			1.00	5.00
44) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00
46) Dibromomethane	(1)				ND	ND			1.00	5.00
47) Bromodichloromethane	(1)				ND	ND			1.00	5.00
50) cis-1,3-Dichloropropene	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

WAT11 8887

WBREMDL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932650

File: /chem2/HP16334.i/10mar25a.b/gm25s26.d
Sample: WBREMDL;5932650;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:52
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 2.5000 ml (Vo)
Volume Purged: 25.0 ml (Vt)

Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
53) Toluene	(1)					ND	ND			1.00	5.00
55) trans-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
57) 1,1,2-Trichloroethane	(1)					ND	ND			1.00	5.00
58) Tetrachloroethene	(1)					ND	ND			1.00	5.00
59) 1,3-Dichloropropane	(1)					ND	ND			1.00	5.00
61) Dibromochloromethane	(1)					ND	ND			1.00	5.00
62) 1,2-Dibromoethane	(1)					ND	ND			1.00	5.00
64) Chlorobenzene	(1)					ND	ND			1.00	5.00
65) 1,1,1,2-Tetrachloroethane	(1)					ND	ND			1.00	5.00
66) Ethylbenzene	(1)					ND	ND			1.00	5.00
67) m+p-Xylene	(1)					ND	ND			2.00	5.00
68) o-Xylene	(1)					ND	ND			1.00	5.00
69) Styrene	(1)					ND	ND			1.00	5.00
71) Bromoform	(1)					ND	ND			2.00	5.00
72) Isopropylbenzene	(1)					ND	ND			1.00	5.00
74) 1,1,2,2-Tetrachloroethane	(1)					ND	ND			1.00	5.00
75) Bromobenzene	(1)					ND	ND			1.00	5.00
76) 1,2,3-Trichloropropane	(1)					ND	ND			1.00	5.00
78) n-Propylbenzene	(1)					ND	ND			1.00	5.00
79) 2-Chlorotoluene	(1)					ND	ND			1.00	5.00
80) 1,3,5-Trimethylbenzene	(1)					ND	ND			1.00	5.00
81) 4-Chlorotoluene	(1)					ND	ND			2.00	5.00
82) tert-Butylbenzene	(1)					ND	ND			1.00	5.00
84) 1,2,4-Trimethylbenzene	(1)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

WBREMDL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932650

File: /chem2/HP16334.i/10mar25a.b/gm25s26.d
Sample: WBREMDL:5932650;1;0;;;DRAPER;
Injected At:25-MAR-2010 19:52
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 2.5000 ml (Vo)
Volume Purged: 25.0 ml (Vt)
Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
85) sec-Butylbenzene	(1)					ND	ND			1.00	5.00
86) p-Isopropyltoluene	(1)					ND	ND			1.00	5.00
87) 1,3-Dichlorobenzene	(1)					ND	ND			1.00	5.00
88) 1,4-Dichlorobenzene	(1)	13.225	(-0.001)	146	26287	0.166	1.66		J	1.00	5.00
89) n-Butylbenzene	(1)					ND	ND			2.00	5.00
91) 1,2-Dichlorobenzene	(1)					ND	ND			1.00	5.00
93) 1,2-Dibromo-3-Chloropropane	(1)					ND	ND			4.00	5.00
95) 1,2,4-Trichlorobenzene	(1)					ND	ND			2.00	5.00
96) Hexachlorobutadiene	(1)					ND	ND			2.00	5.00
97) Naphthalene	(1)					ND	ND			2.00	5.00
98) 1,2,3-Trichlorobenzene	(1)					ND	ND			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: J.M.Mooy Date: 3/25/10

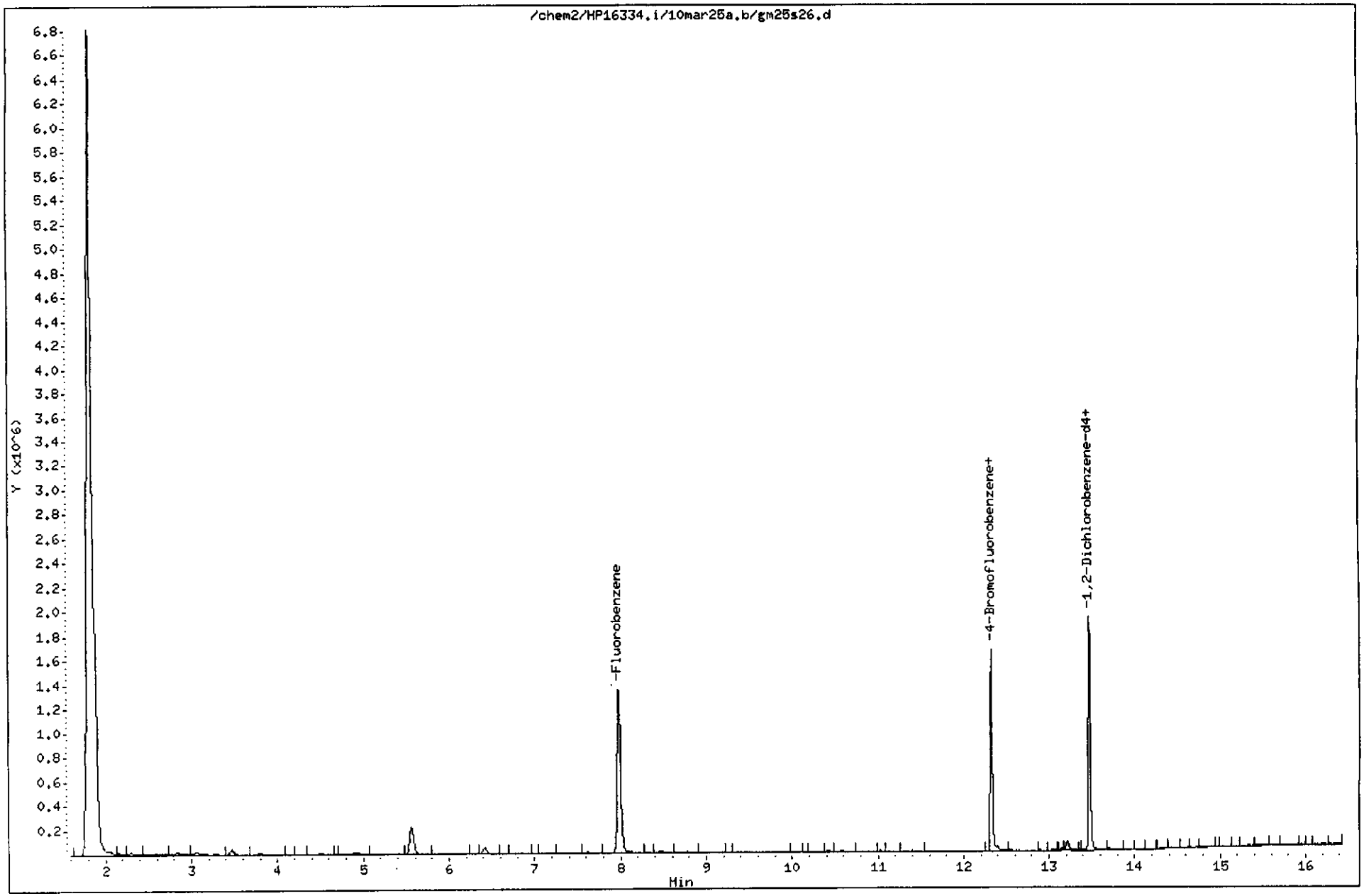
Auditor: AMMiller Date: 03/31/10

WATII 0889

Data File: /chem2/HP16334.i/10mar25a.b/gm25s26.d
Date : 25-MAR-2010 19:52
Client ID: WBREMDL
Sample Info: WBREMDL;5932650;1;0;;;DRAPER;
Purge Volume: 2.5
Column phase: DB-624

Instrument: HP16334.i

Operator: JHL01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s26.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:52 Analyst ID: JML01693

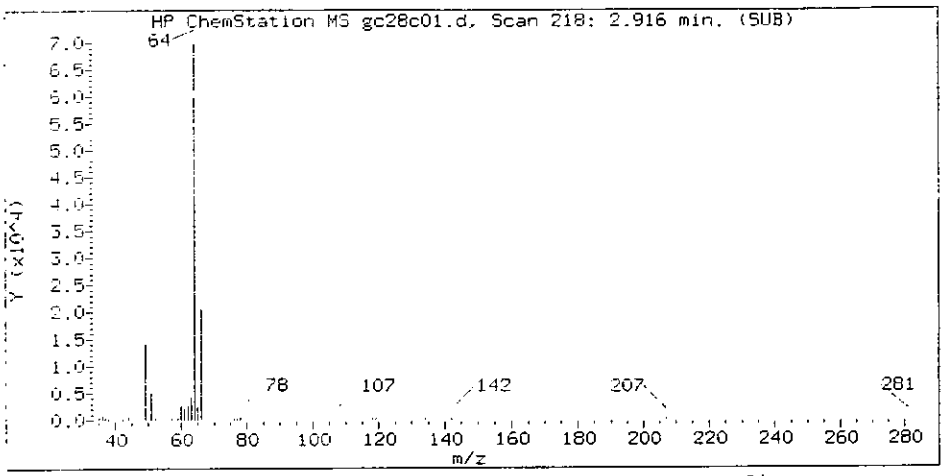
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 20:15 lcm01518

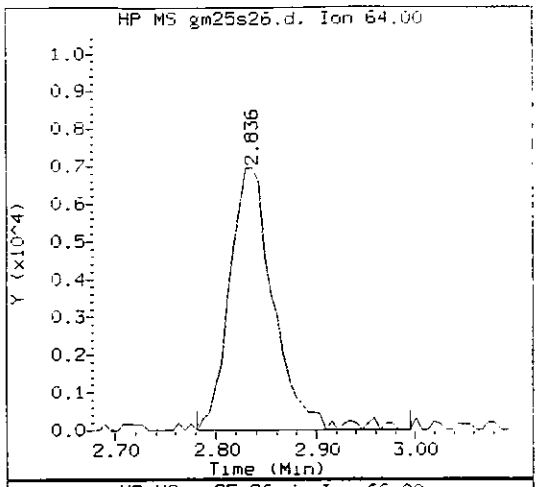
Sample Name: WBREMDL Lab Sample ID: 5932650

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
5) Chloroethane	(1)	2.836	64	21169	0.886
10) 1,1-Dichloroethene	(1)	3.787	96	7733	0.117
22) 1,1-Dichloroethane	(1)	5.562	63	353625	2.850
26) cis-1,2-Dichloroethene	(1)	6.415	96	36579	0.485
42)*Fluorobenzene	(1)	7.988	96	1857528	5.000
88) 1,4-Dichlorobenzene	(1)	13.225	146	26287	0.166
73)$4-Bromofluorobenzene	(1)	12.328	174	488629	4.963
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	516592	5.401

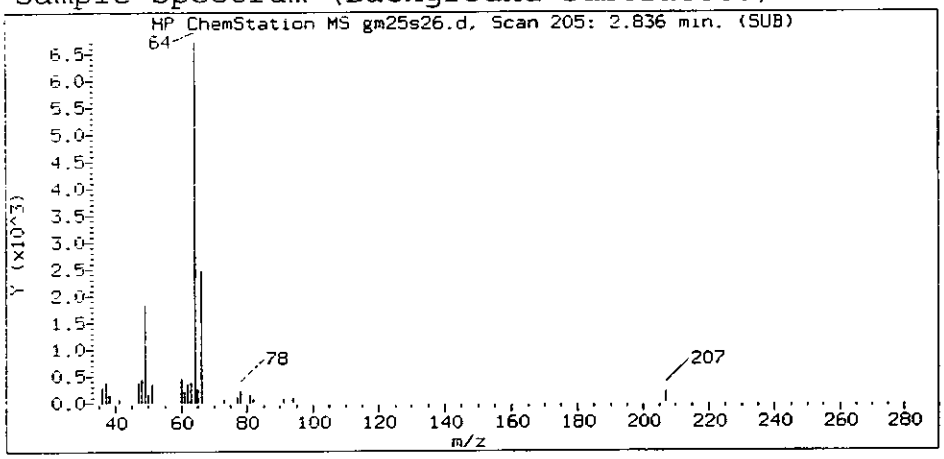
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

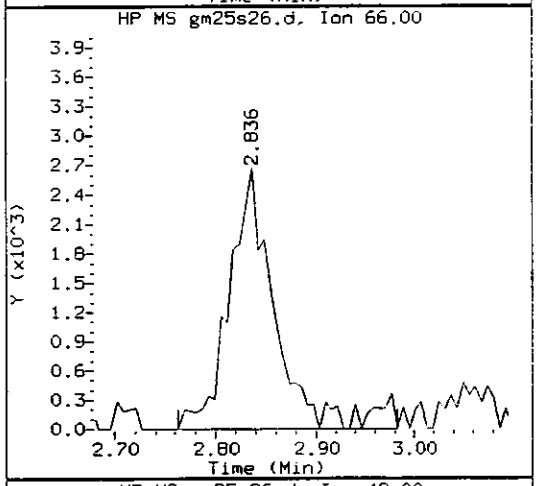
Reference Standard Spectrum for Chloroethane



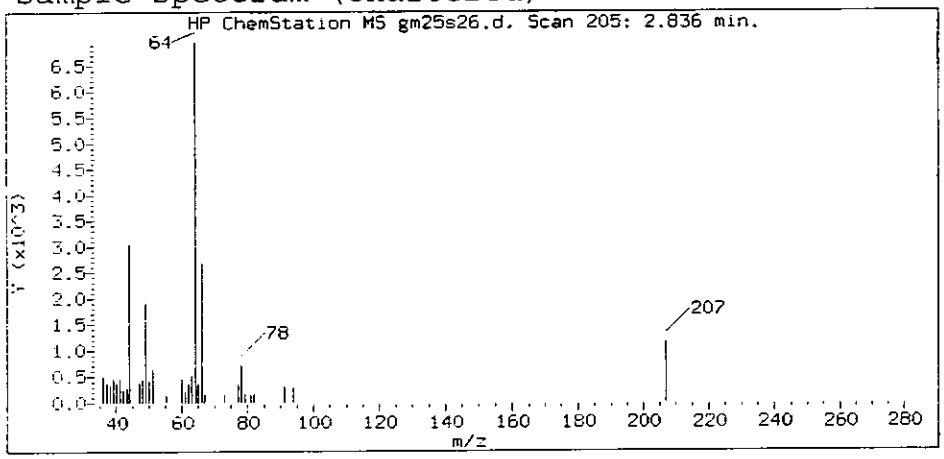


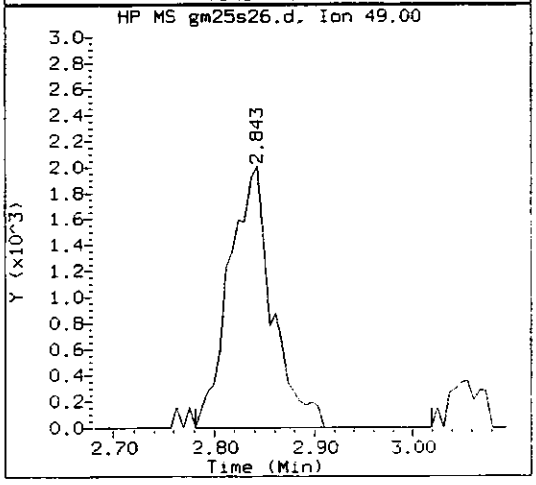
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s26.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:52 Analyst ID: JML01693

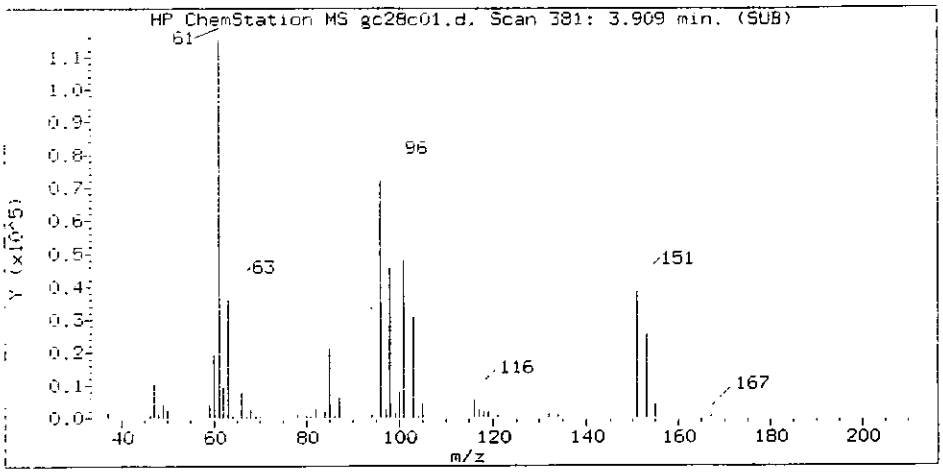
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:15 lcm01518

Sample Name: WBREMDL Lab Sample ID: 5932650

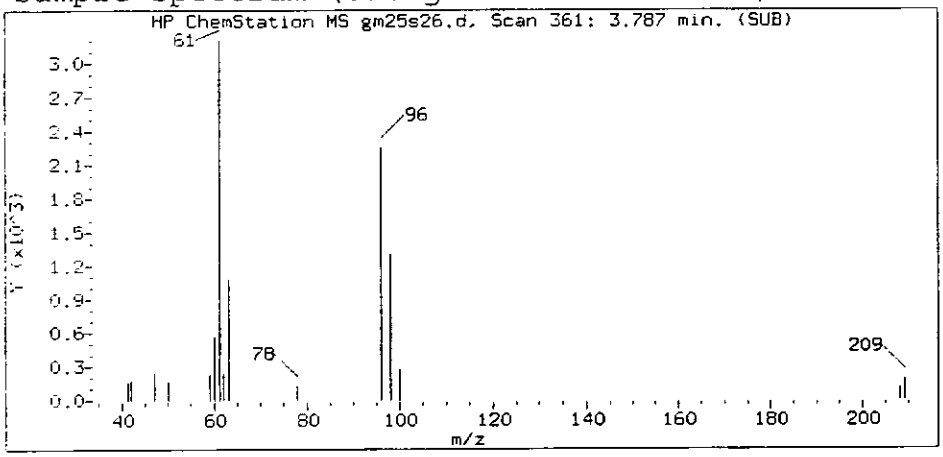
Compound Number	: 5
Compound Name	: Chloroethane
Scan Number	: 205
Retention Time (minutes)	: 2.836
Quant Ion	: 64.0
Area (flag)	: 21169
Concentration (ug/L)	: 0.8865

WAT11 0892

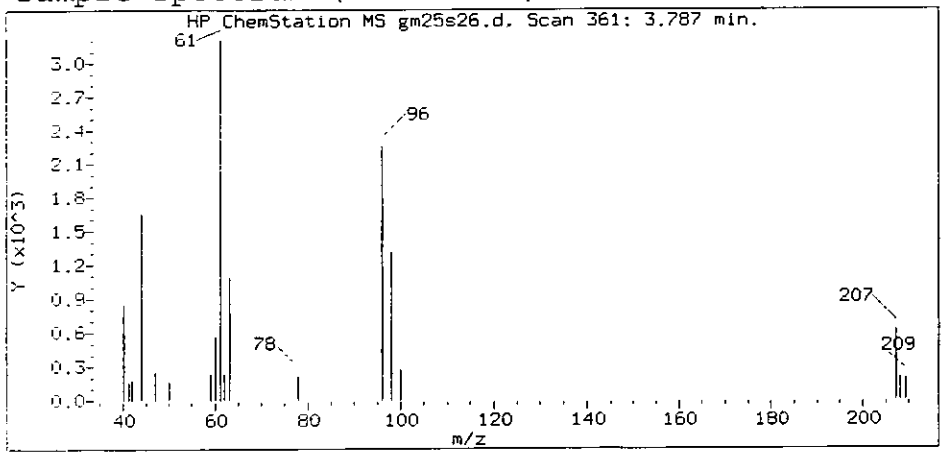
Reference Standard Spectrum for 1,1-Dichloroethene

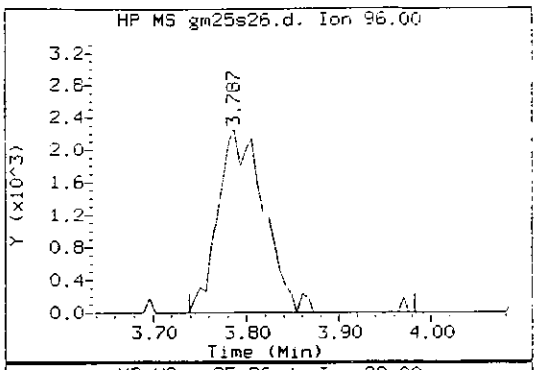


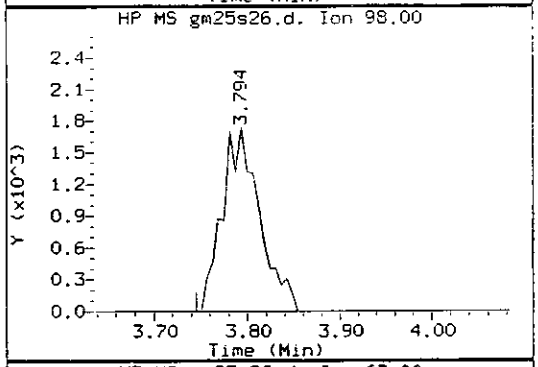
Sample Spectrum (Background Subtracted)

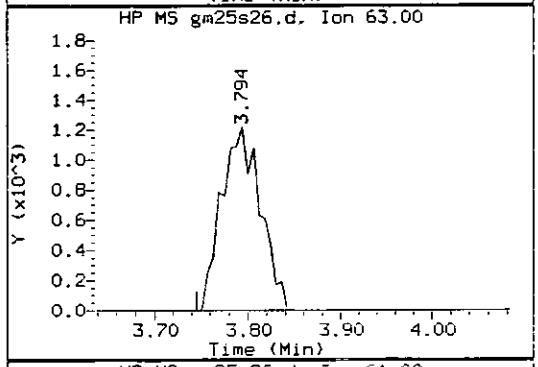


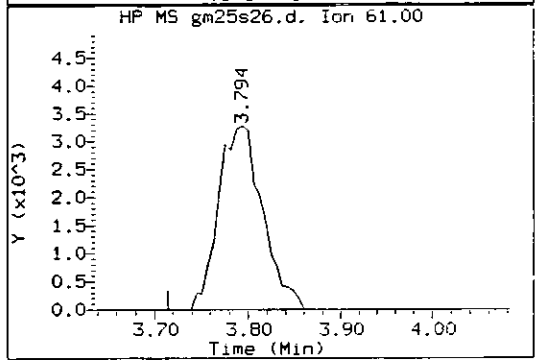
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s26.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:52 Analyst ID: JML01693

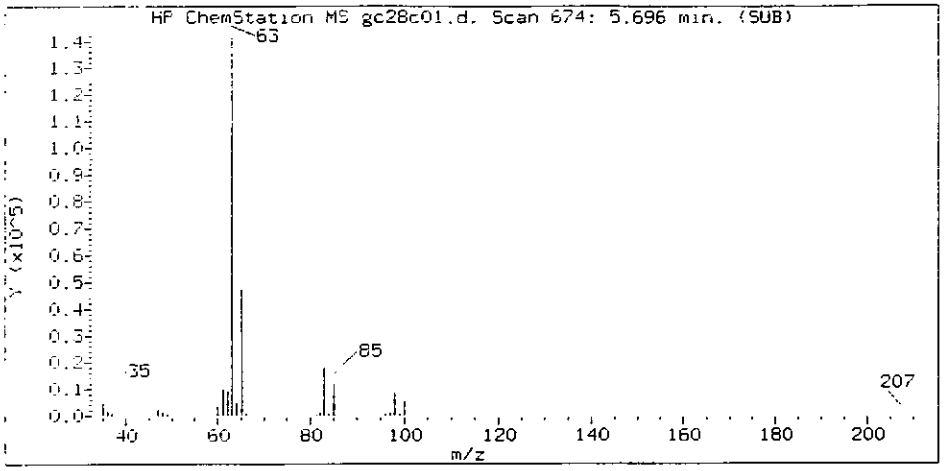
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:15 lcm01518

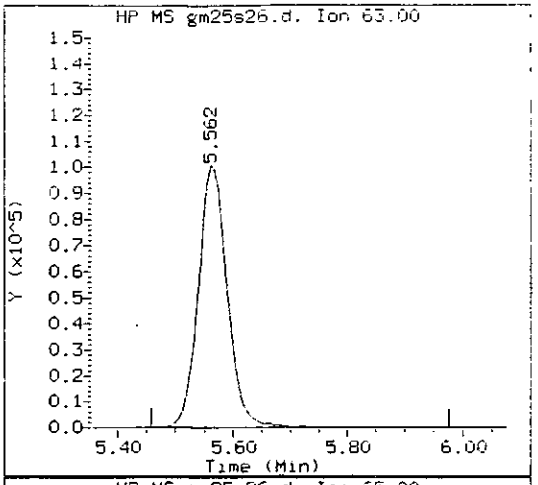
Sample Name: WBREMDL Lab Sample ID: 5932650

Compound Number	: 10
Compound Name	: 1,1-Dichloroethene
Scan Number	: 361
Retention Time (minutes)	: 3.787
Quant Ion	: 96.0
Area (flag)	: 7733
Concentration (ug/L)	: 0.1172

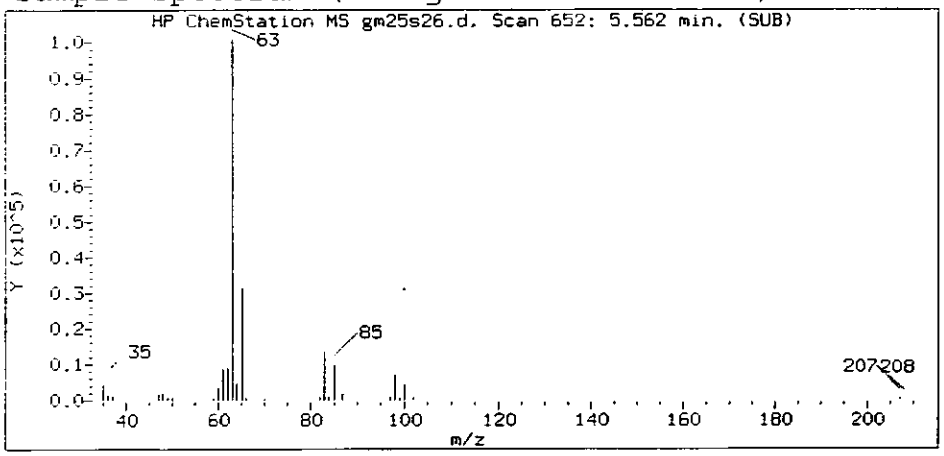
WAT11 0093

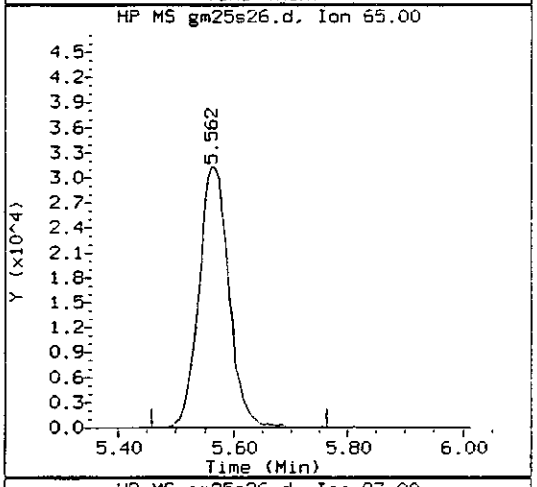
Reference Standard Spectrum for 1,1-Dichloroethane



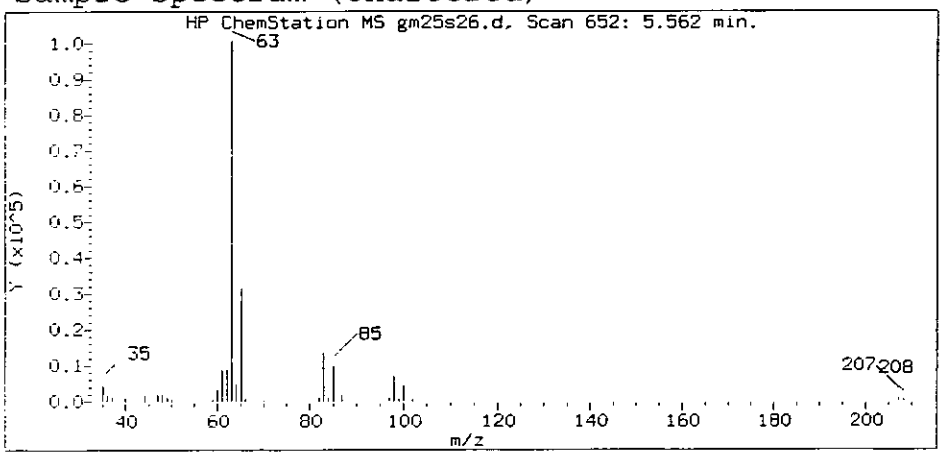


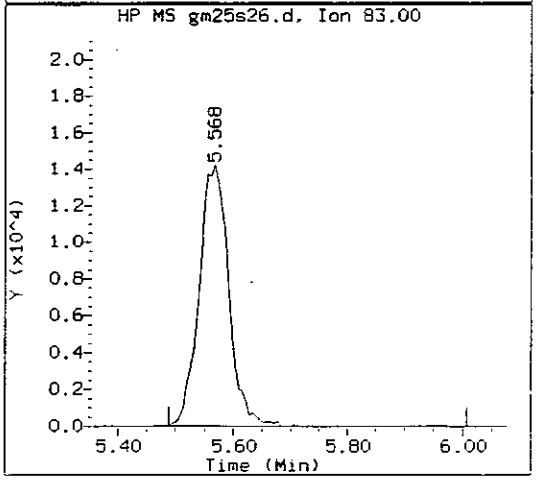
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s26.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:52 Analyst ID: JML01693

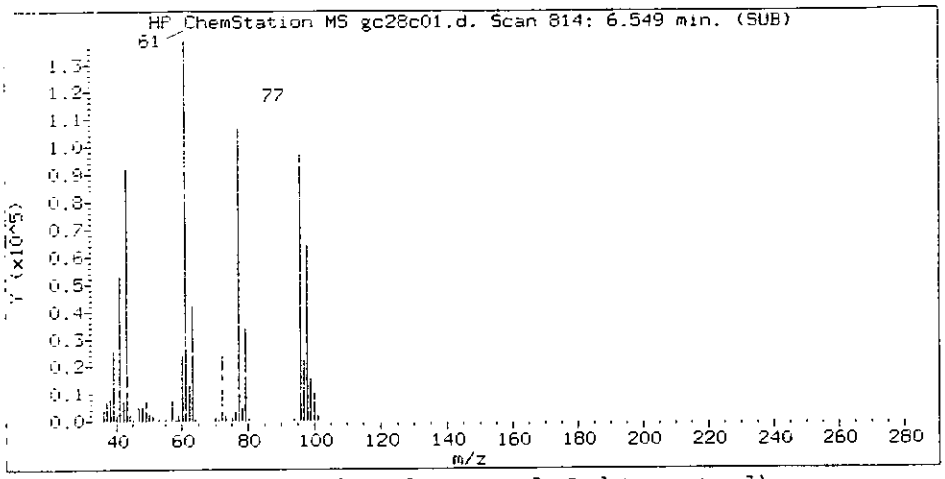
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:15 lcm01518

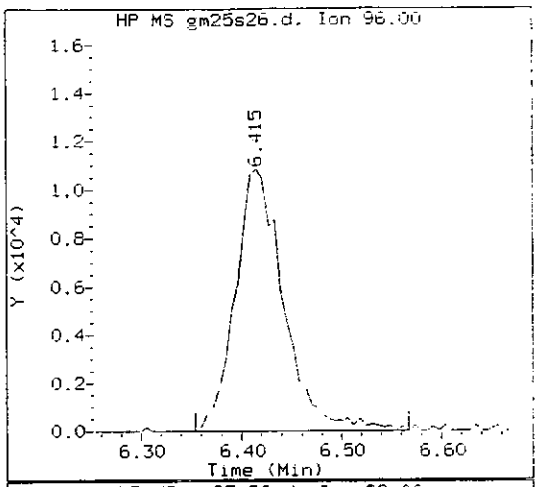
Sample Name: WBREMDL Lab Sample ID: 5932650

Compound Number	: 22
Compound Name	: 1,1-Dichloroethane
Scan Number	: 652
Retention Time (minutes)	: 5.562
Quant Ion	: 63.0
Area (flag)	: 353625
Concentration (ug/L)	: 2.8495

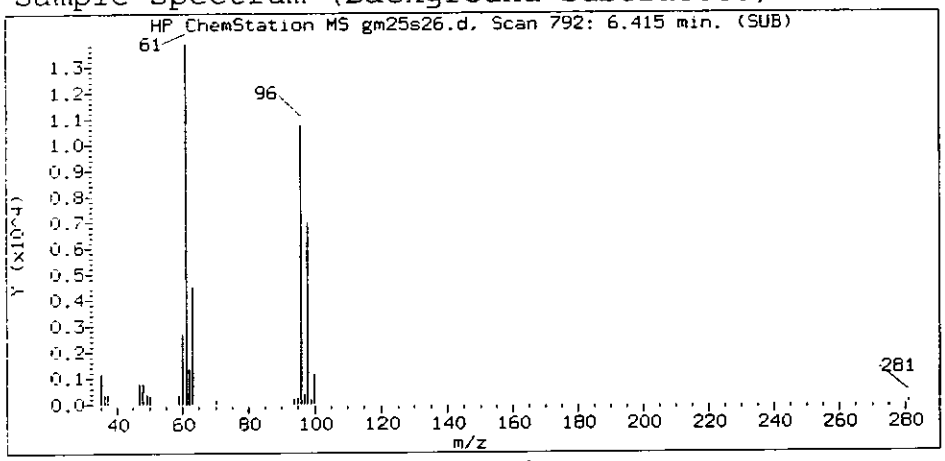
WAT11 0894

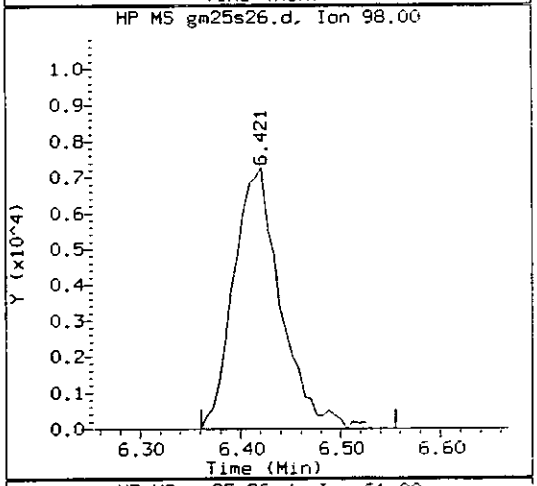
Reference Standard Spectrum for cis-1,2-Dichloroethene



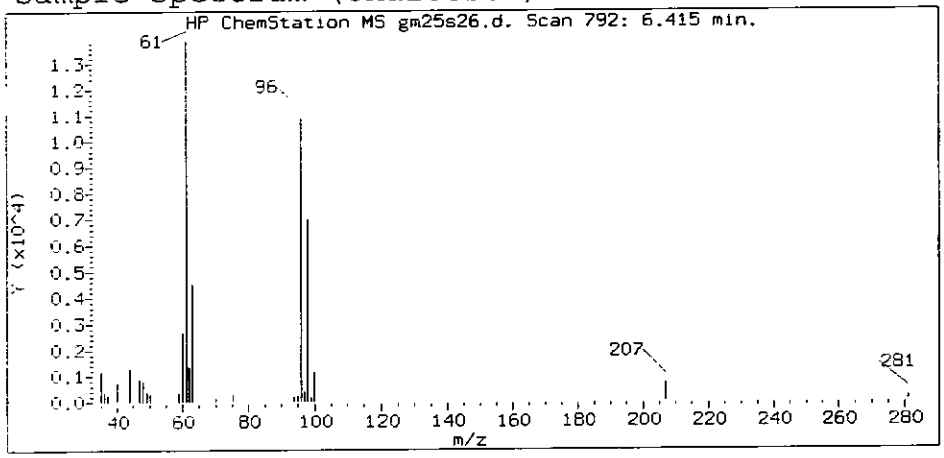


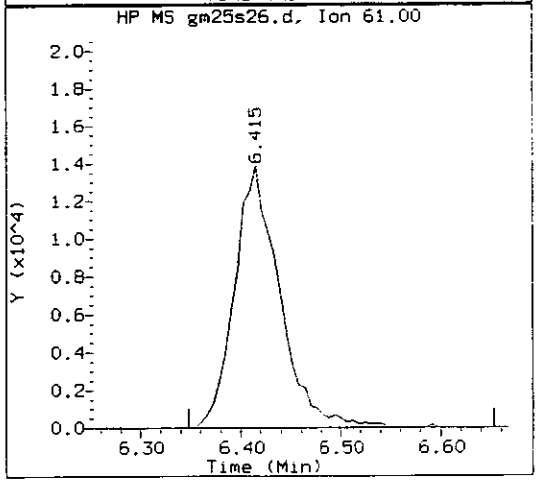
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s26.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:52 Analyst ID: JML01693

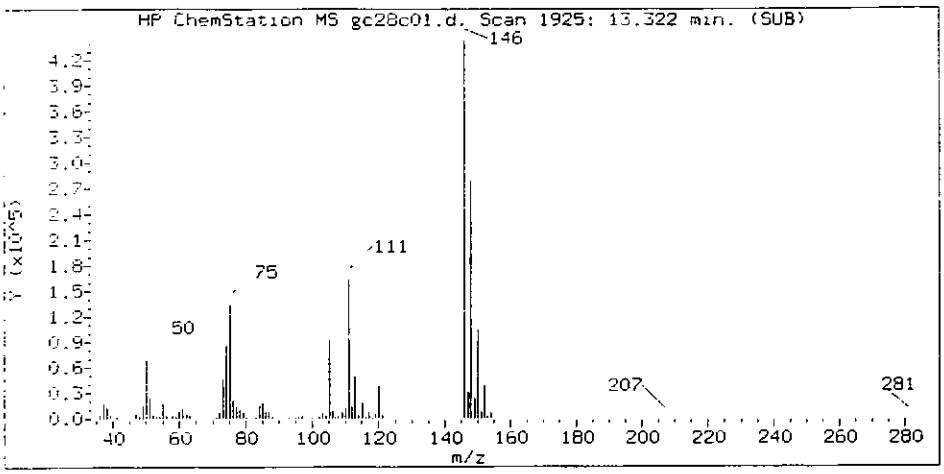
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:15 lcm01518

Sample Name: WBREMDL Lab Sample ID: 5932650

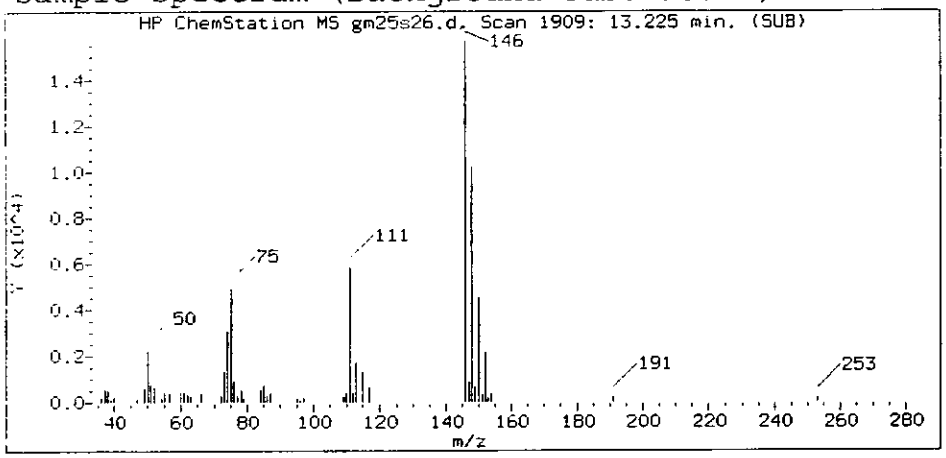
Compound Number	: 26
Compound Name	: cis-1,2-Dichloroethene
Scan Number	: 792
Retention Time (minutes)	: 6.415
Quant Ion	: 96.0
Area (flag)	: 36579
Concentration (ug/L)	: 0.4848

WAT11 0095

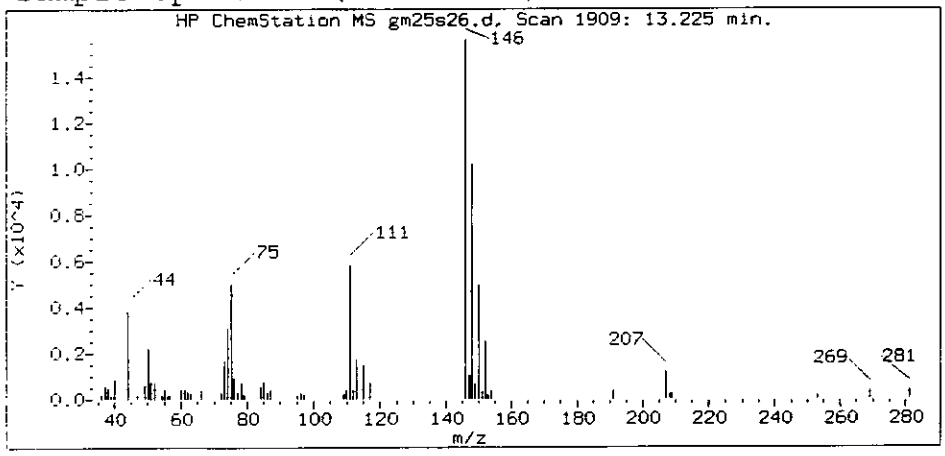
Reference Standard Spectrum for 1,4-Dichlorobenzene

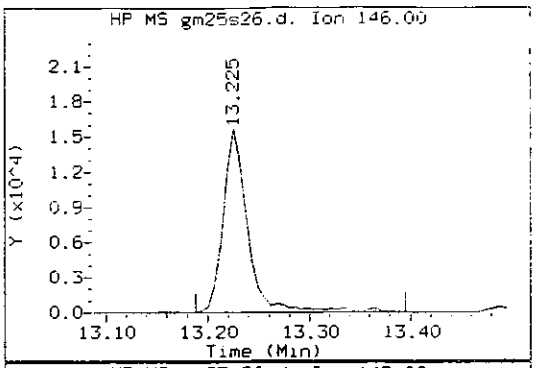


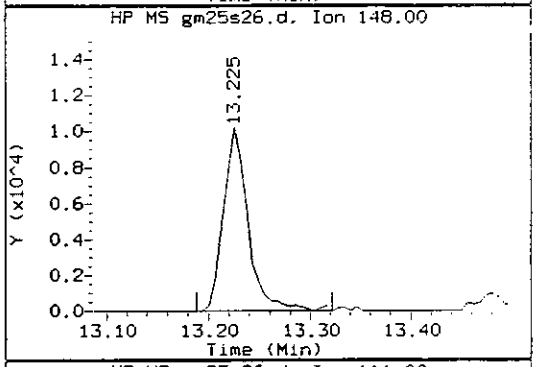
Sample Spectrum (Background Subtracted)

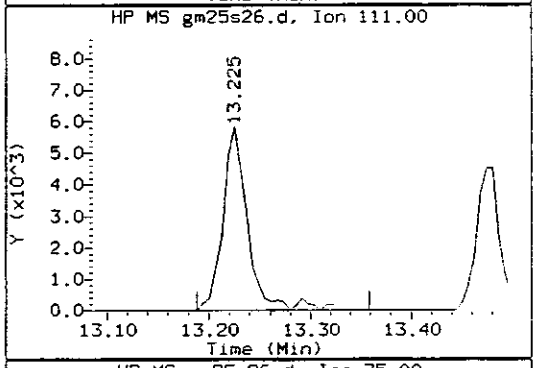


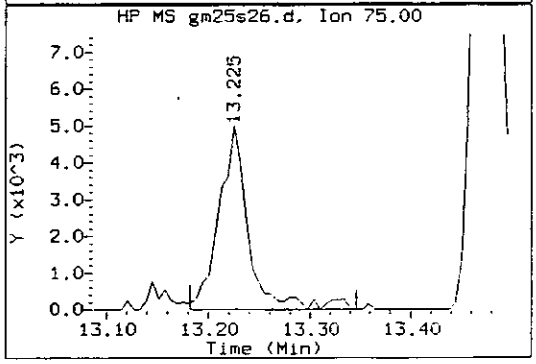
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/10mar25a.b/gm25s26.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 19:52 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 20:15 lcm01518

Sample Name: WBREMDL Lab Sample ID: 5932650

Compound Number	: 88
Compound Name	: 1,4-Dichlorobenzene
Scan Number	: 1909
Retention Time (minutes)	: 13.225
Quant Ion	: 146.0
Area (flag)	: 26287
Concentration (ug/L)	: 0.1664

WAT11 0896

WRES2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932651

File: /chem2/HP16334.i/10mar25a.b/gm25s27.d
Sample: WRES2;5932651;1;0;;;DRAPER;
Injected At:25-MAR-2010 20:13
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.988(0.000)	1050	96	1849498(-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)	12.329(0.000)	174	486595	4.964	99%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(0.000)	152	514084	5.398	108%		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.	Qual.	Reporting 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)	5.562(0.001)	63	122038	0.988	0.99			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

WRES2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932651

File: /chem2/HP16334.i/10mar25a.b/gm25s27.d
Sample: WRES2;5932651;1;0;;;DRAPER;
Injected At:25-MAR-2010 20:13
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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

WRES2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932651

File: /chem2/HP16334.i/10mar25a.b/gm25s27.d
Sample: WRES2;5932651;1;0;;;DRAPER;
Injected At:25-MAR-2010 20:13
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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: _____

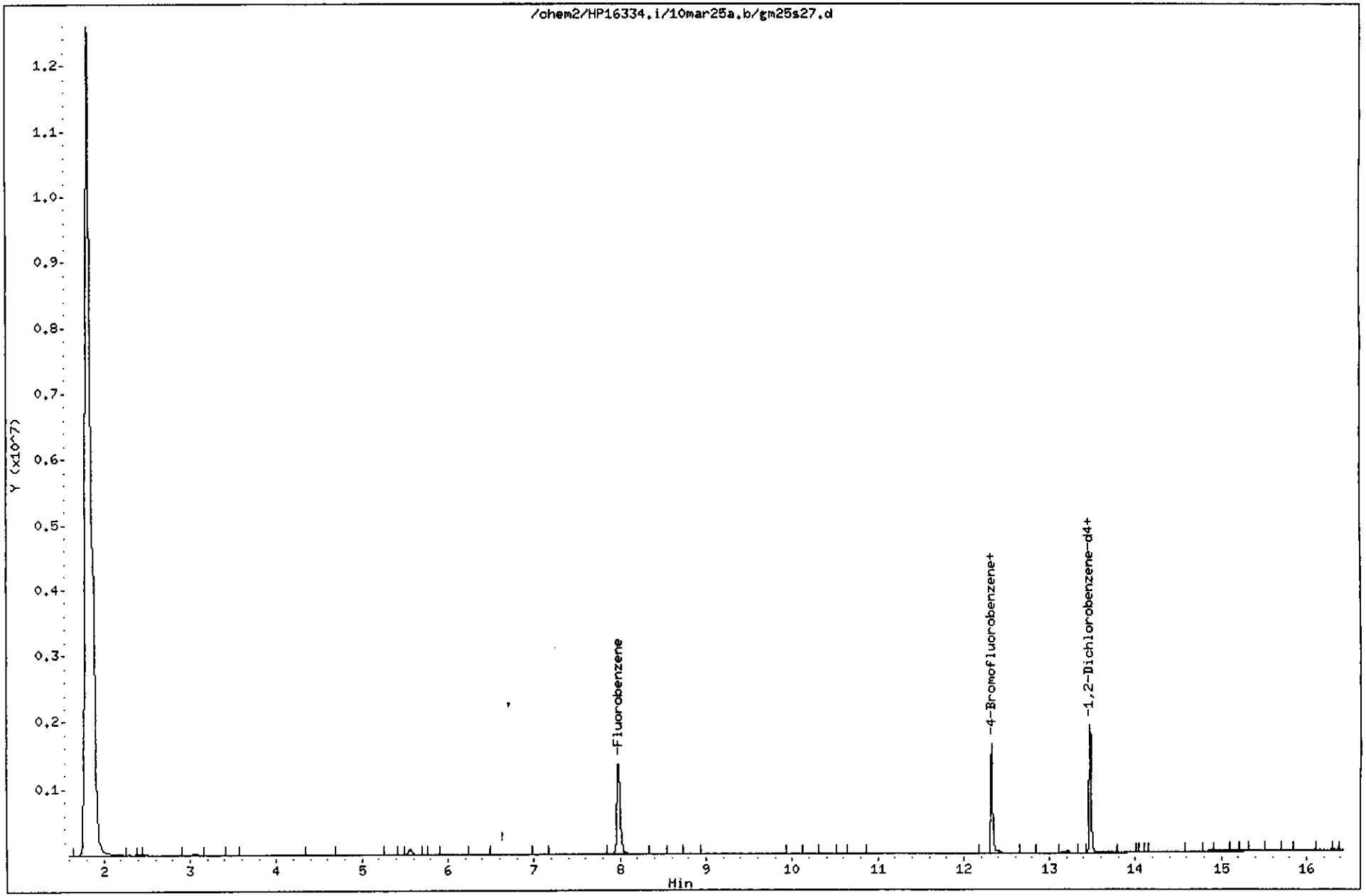
Analyst: JML01693 Date: 31 Mar 10

Auditor: APPROVED Date: 033110

Data File: /chem2/HP16334.i/10mar25a.b/gm25s27.d
Date : 25-MAR-2010 20:13
Client ID: WRES2
Sample Info: WRES2;5932651;1;0;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s27.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 20:13 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 22:00 lcm01518

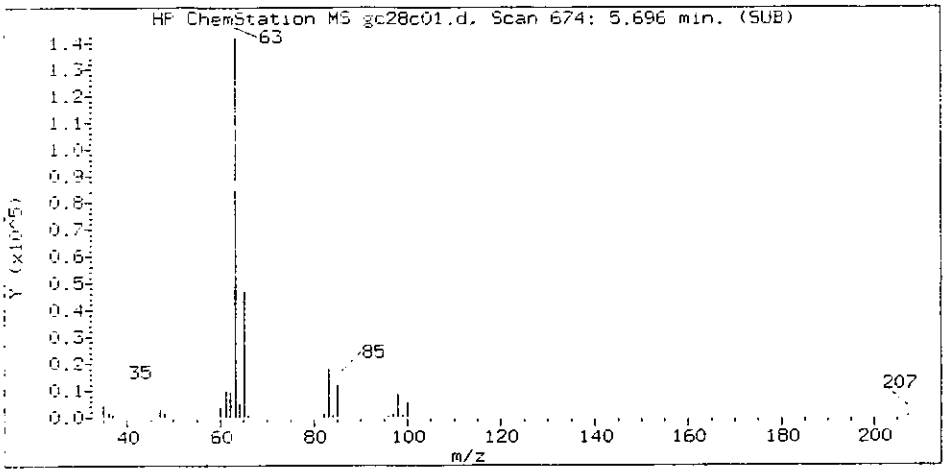
Sample Name: WRES2 Lab Sample ID: 5932651

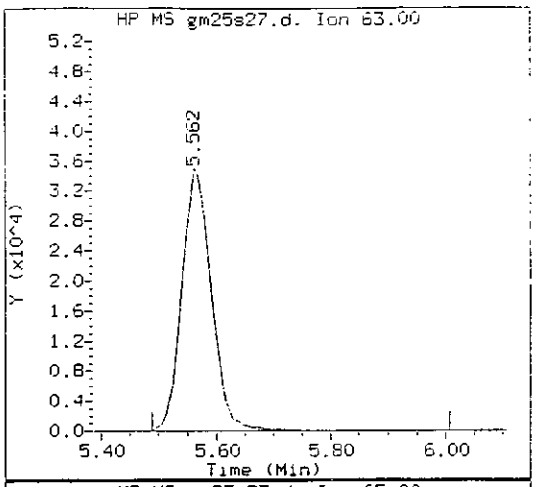
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
22) 1,1-Dichloroethane	(1)	5.562	63	122038	0.988
42)*Fluorobenzene	(1)	7.988	96	1849498	5.000
73)$4-Bromofluorobenzene	(1)	12.329	174	486595	4.964
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	514084	5.398

M = Compound was manually integrated.

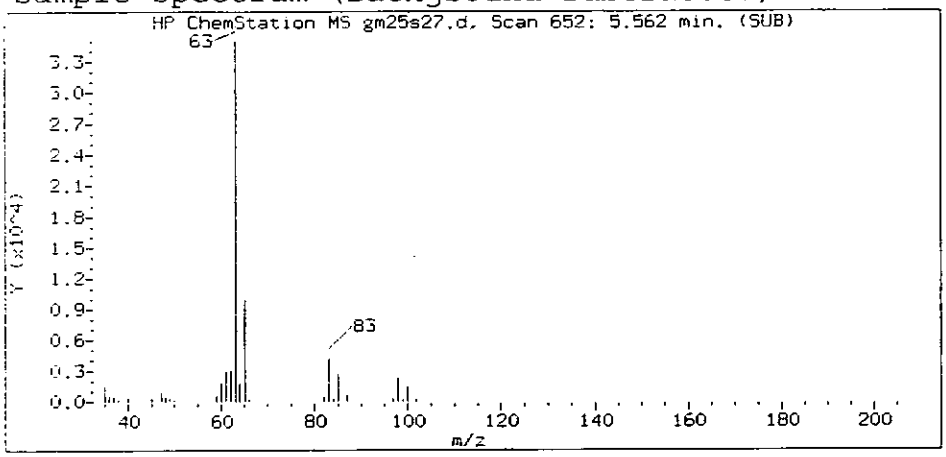
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

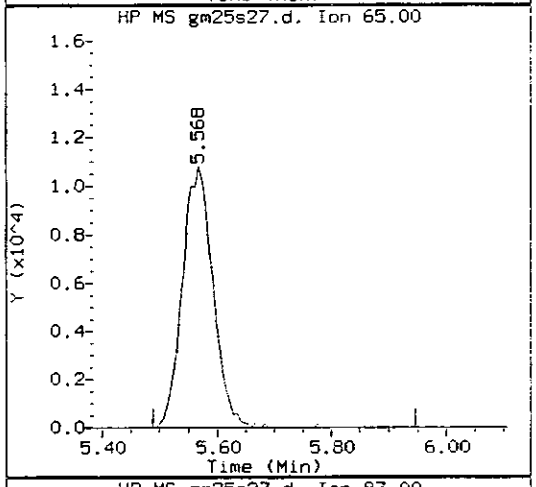
Reference Standard Spectrum for 1,1-Dichloroethane



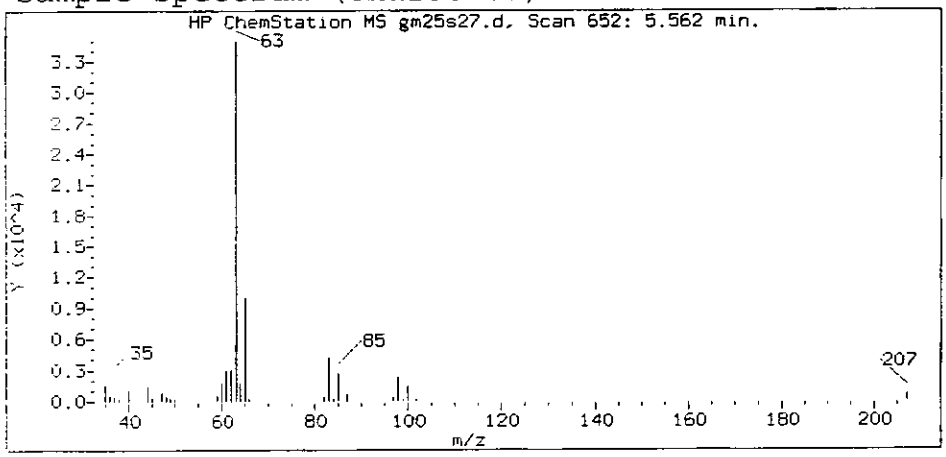


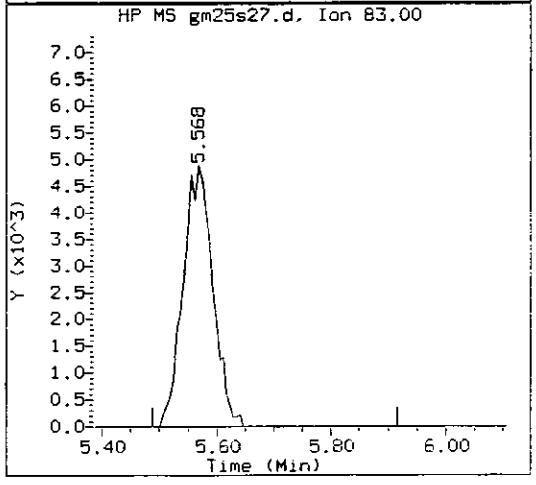
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/10mar25a.b/gm25s27.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 20:13 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 22:00 lcm01518

Sample Name: WRES2 Lab Sample ID: 5932651

Compound Number	: 22
Compound Name	: 1,1-Dichloroethane
Scan Number	: 652
Retention Time (minutes)	: 5.562
Quant Ion	: 63.0
Area (flag)	: 122038
Concentration (ug/L)	: 0.9877

WAT11 0102

WCLTB

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932652

File: /chem2/HP16334.i/10mar25a.b/gm25s28.d
Sample: WCLTB;5932652;1;0;;;DRAPER;
Injected At:25-MAR-2010 20:35
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.982(0.006)	1049	96	1848481(-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)	12.329(-0.001)	174	487770	4.978	100%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(-0.001)	152	514630	5.407	108%		80 - 120

** = ISTD 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.	Qual.	Reporting 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

WAT11 0103

WCLTB

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5932652

File: /chem2/HP16334.i/10mar25a.b/gm25s28.d
Sample: WCLTB;5932652;1;0;;;DRAPER;
Injected At:25-MAR-2010 20:35
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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

WCLTB

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5932652

File: /chem2/HP16334.i/10mar25a.b/gm25s28.d
Sample: WCLTB;5932652;1;0;;;DRAPER;
Injected At:25-MAR-2010 20:35
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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: [signature] Date: 3/25/10

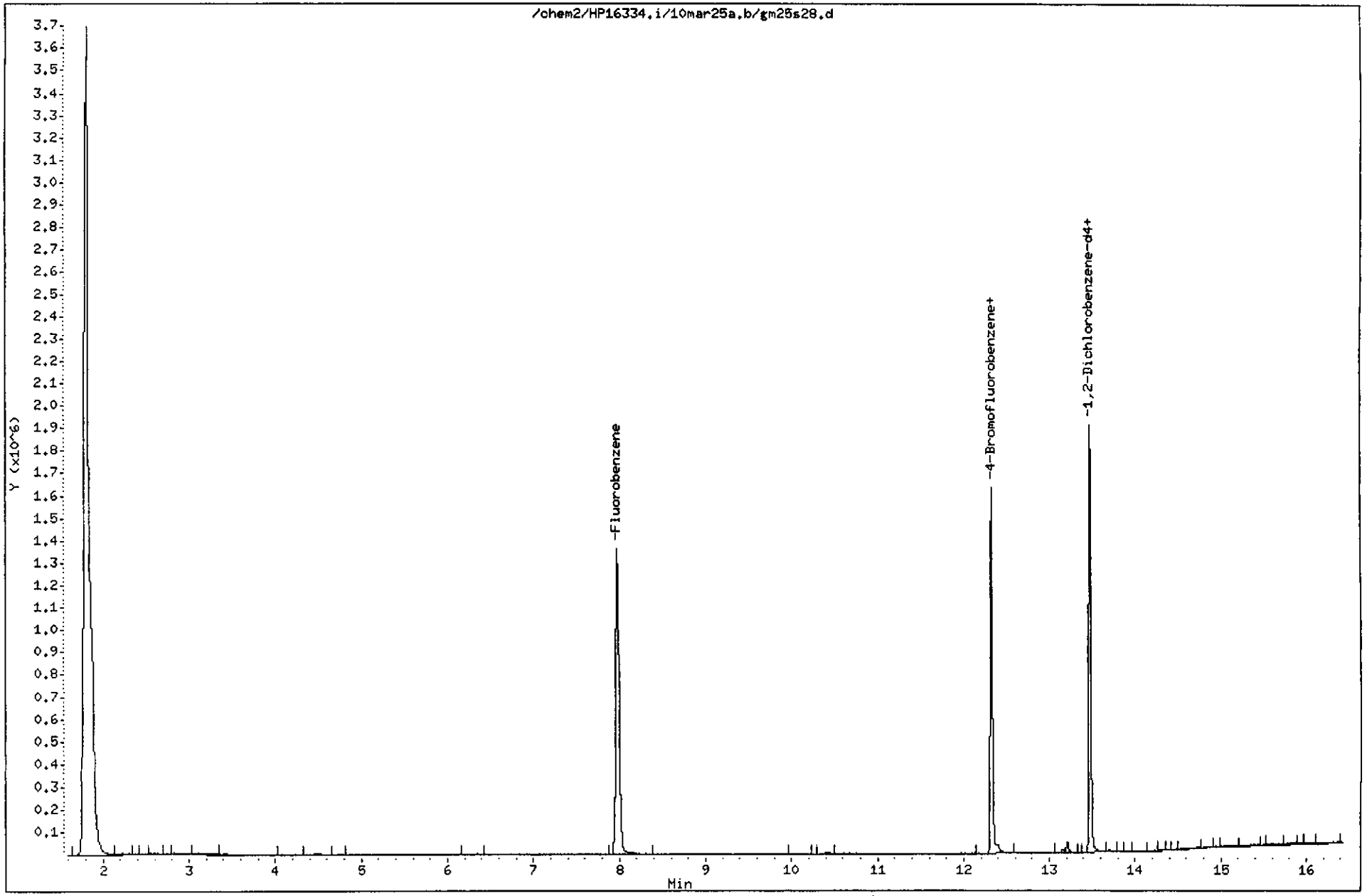
Auditor: [signature] Date: 033110

WAT11 0185

Data File: /chem2/HP16334.i/10mar25a.b/gm25s28.d
Date : 25-MAR-2010 20:35
Client ID: WCLTB
Sample Info: WCLTB;5932652;1;0;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25s28.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 20:35 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 21:59 lcm01518

Sample Name: WCLTB Lab Sample ID: 5932652

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42)*Fluorobenzene	(1)	7.982	96	1848481	5.000
73)$4-Bromofluorobenzene	(1)	12.329	174	487770	4.978
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	514630	5.407

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Standards Data

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date(s): 03/23/10 03/23/10

Heated Purge: (Y/N) N Calibration Time(s): 13:14 14:20

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 0.5 gm23i04.d RRF 5 = gm23i03.d
RRF 10= gm23i02.d RRF 25= gm23i01.d RRF =

COMPOUND	RRF 0.5	RRF 5	RRF 10	RRF 25	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
Dichlorodifluoromethane	0.3447	0.3312	0.3418	0.3751		0.3482	5	AVG
Chloromethane	0.1254	0.1088	0.1137	0.1095		0.1143	7	AVG
Vinyl Chloride	0.1130	0.1077	0.1125	0.1104		0.1109	2	AVG
Bromomethane	0.1100	0.0934	0.0948	0.0890		0.0968	9	AVG
Chloroethane	0.0721	0.0623	0.0635	0.0592		0.0643	9	AVG
Dichlorofluoromethane	0.2320	0.2241	0.2110	0.2060		0.2183	5	AVG
Trichlorofluoromethane	0.3442	0.3478	0.3495	0.3604		0.3505	2	AVG
Ethyl Ether	0.0761	0.0709	0.0738	0.0740		0.0737	3	AVG
Acrolein	0.0090	0.0088	0.0090	0.0090		0.0089	1	AVG
1,1-Dichloroethene	0.1857	0.1728	0.1746	0.1770		0.1775	3	AVG
Freon 113	0.2081	0.1980	0.1985	0.2038		0.2021	2	AVG
Acetone	0.0036	0.0033	0.0031	0.0035		0.0034	7	AVG
Methyl Iodide	0.3643	0.3397	0.3473	0.3517		0.3508	3	AVG
Carbon Disulfide	0.4202	0.4208	0.4426	0.4536		0.4343	4	AVG
Allyl Chloride	0.1637	0.1387	0.1503	0.1567		0.1524	7	AVG
Methylene Chloride	0.2037	0.1627	0.1643	0.1646		0.1738	11	AVG
t-Butyl Alcohol	0.0038	0.0031	0.0030	0.0033		0.0033	11	AVG
Acrylonitrile	0.0123	0.0148	0.0155	0.0159		0.0146	11	AVG
trans-1,2-Dichloroethene	0.2235	0.2018	0.2039	0.2024		0.2079	5	AVG
Methyl Tertiary Butyl Ether	0.2574	0.2362	0.2454	0.2436		0.2457	4	AVG
1,1-Dichloroethane	0.3420	0.3235	0.3347	0.3359		0.3340	2	AVG
di-Isopropyl Ether	0.1427	0.1334	0.1380	0.1369		0.1378	3	AVG
Ethyl t-Butyl Ether	0.3544	0.3333	0.3473	0.3478		0.3457	3	AVG
cis-1,2-Dichloroethene	0.2192	0.1960	0.1999	0.1973		0.2031	5	AVG
2,2-Dichloropropane	0.2728	0.2713	0.2852	0.2969		0.2816	4	AVG
2-Butanone	0.0175	0.0152	0.0161	0.0163		0.0163	6	AVG
Propionitrile	0.0056	0.0057	0.0059	0.0060		0.0058	3	AVG
Methyl Acrylate	0.0505	0.0491	0.0510	0.0515		0.0505	2	AVG
Methacrylonitrile	0.0220	0.0222	0.0228	0.0224		0.0224	2	AVG
Bromochloromethane	0.0713	0.0622	0.0666	0.0654		0.0664	6	AVG
Tetrahydrofuran	0.0057	0.0052	0.0053	0.0053		0.0054	4	AVG
Chloroform	0.3516	0.3290	0.3373	0.3399		0.3395	3	AVG
1,1,1-Trichloroethane	0.3101	0.3097	0.3191	0.3347		0.3184	4	AVG
1-Chlorobutane	0.0128	0.0140	0.0148	0.0154		0.0142	8	AVG
Carbon Tetrachloride	0.2634	0.2721	0.2871	0.3032		0.2814	6	AVG
1,1-Dichloropropene	0.2808	0.2690	0.2778	0.2784		0.2765	2	AVG
Benzene	0.8309	0.7543	0.7690	0.7630		0.7793	4	AVG
1,2-Dichloroethane	0.1585	0.1463	0.1534	0.1587		0.1542	4	AVG
t-Amyl Methyl Ether	0.2740	0.2579	0.2699	0.2718		0.2684	3	AVG
Trichloroethene	0.2352	0.2200	0.2268	0.2292		0.2278	3	AVG
1,2-Dichloropropane	0.1707	0.1563	0.1606	0.1597		0.1618	4	AVG
Methyl Methacrylate	0.0399	0.0408	0.0440	0.0441		0.0422	5	AVG
Dibromomethane	0.0641	0.0598	0.0624	0.0635		0.0625	3	AVG
Bromodichloromethane	0.1724	0.1740	0.1842	0.1938		0.1811	5	AVG
2-Nitropropane	0.0004	0.0005	0.0005	0.0006		0.0005	10	AVG
Chloroacetonitrile	0.0021	0.0021	0.0022	0.0024		0.0022	7	AVG
cis-1,3-Dichloropropene	0.2058	0.2006	0.2142	0.2189		0.2099	4	AVG
4-Methyl-2-Pentanone	0.0181	0.0181	0.0185	0.0179		0.0181	1	AVG
1,1-Dichloropropanone	0.0009	0.0010	0.0010	0.0011		0.0010	7	AVG
Toluene	0.5295	0.4851	0.4974	0.4927		0.5012	4	AVG
trans-1,3-Dichloropropene	0.1318	0.1411	0.1527	0.1622		0.1470	9	AVG
Ethyl Methacrylate	0.0902	0.0929	0.0977	0.1006		0.0953	5	AVG

WAT11 0109

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date(s): 03/23/10 03/23/10

Heated Purge: (Y/N) N Calibration Time(s): 13:14 14:20

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 0.5 gm23i04.d RRF 5 = gm23i03.d
RRF 10= gm23i02.d RRF 25= gm23i01.d RRF =

COMPOUND	RRF 0.5	RRF 5	RRF 10	RRF 25	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,1,2-Trichloroethane	0.0762	0.0696	0.0716	0.0725		0.0725	4	AVG
Tetrachloroethene	0.2680	0.2522	0.2565	0.2619		0.2597	3	AVG
1,3-Dichloropropane	0.1533	0.1424	0.1479	0.1504		0.1485	3	AVG
2-Hexanone	0.0147	0.0160	0.0167	0.0165		0.0160	6	AVG
Dibromochloromethane	0.0925	0.0950	0.1029	0.1100		0.1001	8	AVG
1,2-Dibromoethane	0.0788	0.0767	0.0795	0.0830		0.0795	3	AVG
Chlorobenzene	0.5535	0.5160	0.5291	0.5302		0.5322	3	AVG
1,1,1,2-Tetrachloroethane	0.1612	0.1613	0.1694	0.1752		0.1668	4	AVG
Ethylbenzene	0.3275	0.3077	0.3183	0.3159		0.3174	3	AVG
m+p-Xylene	0.4007	0.3745	0.3799	0.3640		0.3798	4	AVG
o-Xylene	0.3741	0.3508	0.3555	0.3418		0.3556	4	AVG
Styrene	0.4984	0.5157	0.5272	0.5146		0.5140	2	AVG
Bromoform	0.0407	0.0444	0.0489	0.0546		0.0472	13	AVG
Isopropylbenzene	0.2682	0.2565	0.2612	0.2612		0.2618	2	AVG
1,1,2,2-Tetrachloroethane	0.0855	0.0789	0.0812	0.0851		0.0827	4	AVG
Bromobenzene	0.2099	0.1911	0.1939	0.1969		0.1980	4	AVG
1,2,3-Trichloropropane	0.0250	0.0231	0.0239	0.0238		0.0239	3	AVG
trans-1,4-Dichloro-2-Butene	0.0124	0.0136	0.0151	0.0165		0.0144	12	AVG
n-Propylbenzene	0.2986	0.2796	0.2874	0.2877		0.2883	3	AVG
2-Chlorotoluene	0.2476	0.2273	0.2348	0.2375		0.2368	4	AVG
1,3,5-Trimethylbenzene	0.8981	0.8615	0.8869	0.8952		0.8855	2	AVG
4-Chlorotoluene	0.2533	0.2258	0.2337	0.2348		0.2369	5	AVG
tert-Butylbenzene	0.1980	0.1840	0.1876	0.1923		0.1905	3	AVG
Pentachloroethane	0.1076	0.1068	0.1180	0.1229		0.1138	7	AVG
1,2,4-Trimethylbenzene	0.8744	0.8495	0.8670	0.8673		0.8646	1	AVG
sec-Butylbenzene	0.2369	0.2261	0.2314	0.2358		0.2325	2	AVG
p-isopropyltoluene	1.0047	0.9616	0.9793	0.9594		0.9763	2	AVG
1,3-Dichlorobenzene	0.4517	0.4087	0.4159	0.4069		0.4208	5	AVG
1,4-Dichlorobenzene	0.4621	0.4050	0.4150	0.4189		0.4252	6	AVG
n-Butylbenzene	0.5186	0.4816	0.4858	0.4793		0.4913	4	AVG
1,2-Dichlorobenzene	0.3683	0.3192	0.3259	0.3299		0.3358	7	AVG
Hexachloroethane	0.1177	0.1301	0.1436	0.1594		0.1377	13	AVG
1,2-Dibromo-3-Chloropropane	0.0122	0.0127	0.0138	0.0154		0.0135	10	AVG
1,2,4-Trichlorobenzene	0.2762	0.2576	0.2649	0.2929		0.2729	6	AVG
Hexachlorobutadiene	0.2324	0.2155	0.2218	0.2411		0.2277	5	AVG
Naphthalene	0.2927	0.2849	0.2982	0.3373		0.3033	8	AVG
1,2,3-Trichlorobenzene	0.2200	0.1896	0.1934	0.2184		0.2054	8	AVG
4-Bromofluorobenzene	0.2637	0.2597	0.2622	0.2745		0.2650	2	AVG
1,2-Dichlorobenzene-d4	0.2620	0.2546	0.2525	0.2608		0.2575	2	AVG

Average %RSD 5

WAT11 0110

EPA Method 524
Internal/Surrogate Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem2/HP16334.i/10mar23a.b/gm23i01.d VSTD025
/chem2/HP16334.i/10mar23a.b/gm23i02.d VSTD010
/chem2/HP16334.i/10mar23a.b/gm23i03.d VSTD005
/chem2/HP16334.i/10mar23a.b/gm23i04.d VSTD0.5

Area Summary

File ID:

Internal/Surrogate Standard Name	gm23i01.d	gm23i02.d	gm23i03.d	gm23i04.d	Avg. Area	%RSD	In Spec
Fluorobenzene	1623636	1799171	1868098	1926789	1804424	7	Yes
4-Bromofluorobenzene	445763	471690	485063	508083	477650	5	Yes
1,2-Dichlorobenzene-d4	423402	454214	475589	504899	464526	7	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal/Surrogate Standard Name	gm23i01.d	gm23i02.d	gm23i03.d	gm23i04.d	Avg. RT
Fluorobenzene	7.988	7.988	7.982	7.982	7.985
4-Bromofluorobenzene	12.329	12.329	12.329	12.328	12.329
1,2-Dichlorobenzene-d4	13.475	13.475	13.475	13.475	13.475

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 03/23/2010 at 15:43

WATII 8111

Lancaster Laboratories, Inc.
GC/MS Initial Calibration Verification

File: gf23l01.d
Inst: HP16334
Dilution Factor: 1.0

Injected: 03/23/10 at 15:27
Sample: LFBG37

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: G100821AA

COMPOUND NAME	SPIKE LEVEL	ICV CONC UG/L	ICV REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	2.00	1.60	80	70-130	YES
Chloromethane	2.00	1.82	91	70-130	YES
Vinyl Chloride	2.00	2.08	104	70-130	YES
Bromomethane	2.00	1.96	98	70-130	YES
Chloroethane	2.00	1.96	98	70-130	YES
Dichlorofluoromethane	2.00	1.87	94	70-130	YES
Trichlorofluoromethane	2.00	1.93	96	70-130	YES
Ethyl Ether	5.00	5.08	102	70-130	YES
Acrolein	37.50	37.60	100	70-130	YES
1,1-Dichloroethene	5.00	5.30	106	70-130	YES
Freon 113	5.00	5.12	102	70-130	YES
Acetone	37.50	36.56	98	70-130	YES
Methyl Iodide	5.00	4.95	99	70-130	YES
Carbon Disulfide	5.00	4.66	93	70-130	YES
Allyl Chloride	5.00	4.61	92	70-130	YES
Methylene Chloride	5.00	4.91	98	70-130	YES
t-Butyl Alcohol	50.00	48.18	96	70-130	YES
Acrylonitrile	112.50	121.16	108	70-130	YES
trans-1,2-Dichloroethene	5.00	5.04	101	70-130	YES
Methyl Tertiary Butyl Ether	5.00	4.75	95	70-130	YES
1,1-Dichloroethane	5.00	5.04	101	70-130	YES
di-Isopropyl Ether	5.00	4.85	97	70-130	YES
Ethyl t-Butyl Ether	5.00	4.68	94	70-130	YES
cis-1,2-Dichloroethene	5.00	4.90	98	70-130	YES
2,2-Dichloropropane	5.00	4.94	99	70-130	YES
2-Butanone	37.50	36.04	96	70-130	YES
Propionitrile	100.00	101.76	102	70-130	YES
Methyl Acrylate	25.00	24.17	97	70-130	YES
Methacrylonitrile	37.50	37.70	101	70-130	YES
Bromochloromethane	5.00	4.97	99	70-130	YES
Tetrahydrofuran	45.00	45.85	102	70-130	YES
Chloroform	5.00	4.84	97	70-130	YES
1,1,1-Trichloroethane	5.00	4.94	99	70-130	YES
1-Chlorobutane	5.00	5.30	106	70-130	YES
Carbon Tetrachloride	5.00	4.85	97	70-130	YES
1,1-Dichloropropene	5.00	5.01	100	70-130	YES
Benzene	5.00	4.81	96	70-130	YES
1,2-Dichloroethane	5.00	4.84	97	70-130	YES
t-Amyl Methyl Ether	5.00	4.63	93	70-130	YES
Trichloroethene	5.00	4.95	99	70-130	YES
1,2-Dichloropropane	5.00	4.93	99	70-130	YES
Methyl Methacrylate	5.00	4.62	92	70-130	YES
Dibromomethane	5.00	5.00	100	70-130	YES
Bromodichloromethane	5.00	4.82	96	70-130	YES
2-Nitropropane	500.00	502.34	100	70-130	YES
Chloroacetonitrile	250.00	257.81	103	70-130	YES
cis-1,3-Dichloropropene	5.00	4.51	90	70-130	YES
4-Methyl-2-Pentanone	25.00	24.89	100	70-130	YES
1,1-Dichloropropanone	500.00	484.63	97	70-130	YES
Toluene	5.00	4.90	98	70-130	YES
trans-1,3-Dichloropropene	5.00	4.72	94	70-130	YES
Ethyl Methacrylate	5.00	4.63	93	70-130	YES
1,1,2-Trichloroethane	5.00	4.88	98	70-130	YES
Tetrachloroethene	5.00	5.11	102	70-130	YES
1,3-Dichloropropane	5.00	4.87	97	70-130	YES
2-Hexanone	25.00	23.72	95	70-130	YES
Dibromochloromethane	5.00	4.58	92	70-130	YES
1,2-Dibromoethane	5.00	4.76	95	70-130	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by WAT11 0112

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Initial Calibration Verification

File: gf23l01.d
Inst: HP16334
Dilution Factor: 1.0

Injected: 03/23/10 at 15:27
Sample: LFBG37

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: G100821AA

COMPOUND NAME	SPIKE LEVEL	ICV CONC UG/L	ICV REC %	Range LOWER-UPPER	INSPEC
Chlorobenzene	5.00	4.89	98	70-130	YES
1,1,1,2-Tetrachloroethane	5.00	4.77	95	70-130	YES
Ethylbenzene	5.00	4.84	97	70-130	YES
m+p-Xylene	10.00	9.77	98	70-130	YES
o-Xylene	5.00	4.92	98	70-130	YES
Styrene	5.00	5.09	102	70-130	YES
Bromoform	5.00	4.44	89	70-130	YES
Isopropylbenzene	5.00	5.01	100	70-130	YES
1,1,2,2-Tetrachloroethane	5.00	4.75	95	70-130	YES
Bromobenzene	5.00	4.77	95	70-130	YES
1,2,3-Trichloropropane	5.00	4.72	94	70-130	YES
trans-1,4-Dichloro-2-Butene	25.00	21.16	85	70-130	YES
n-Propylbenzene	5.00	4.85	97	70-130	YES
2-Chlorotoluene	5.00	4.79	96	70-130	YES
1,3,5-Trimethylbenzene	5.00	4.77	95	70-130	YES
4-Chlorotoluene	5.00	4.74	95	70-130	YES
tert-Butylbenzene	5.00	4.84	97	70-130	YES
Pentachloroethane	5.00	4.85	97	70-130	YES
1,2,4-Trimethylbenzene	5.00	5.02	100	70-130	YES
sec-Butylbenzene	5.00	4.82	96	70-130	YES
p-Isopropyltoluene	5.00	4.97	99	70-130	YES
1,3-Dichlorobenzene	5.00	4.93	99	70-130	YES
1,4-Dichlorobenzene	5.00	4.78	96	70-130	YES
n-Butylbenzene	5.00	5.00	100	70-130	YES
1,2-Dichlorobenzene	5.00	4.83	97	70-130	YES
Hexachloroethane	5.00	4.47	89	70-130	YES
1,2-Dibromo-3-Chloropropane	5.00	4.50	90	70-130	YES
1,2,4-Trichlorobenzene	5.00	4.78	96	70-130	YES
Hexachlorobutadiene	5.00	4.97	99	70-130	YES
Naphthalene	5.00	4.57	91	70-130	YES
1,2,3-Trichlorobenzene	5.00	4.45	89	70-130	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by _____

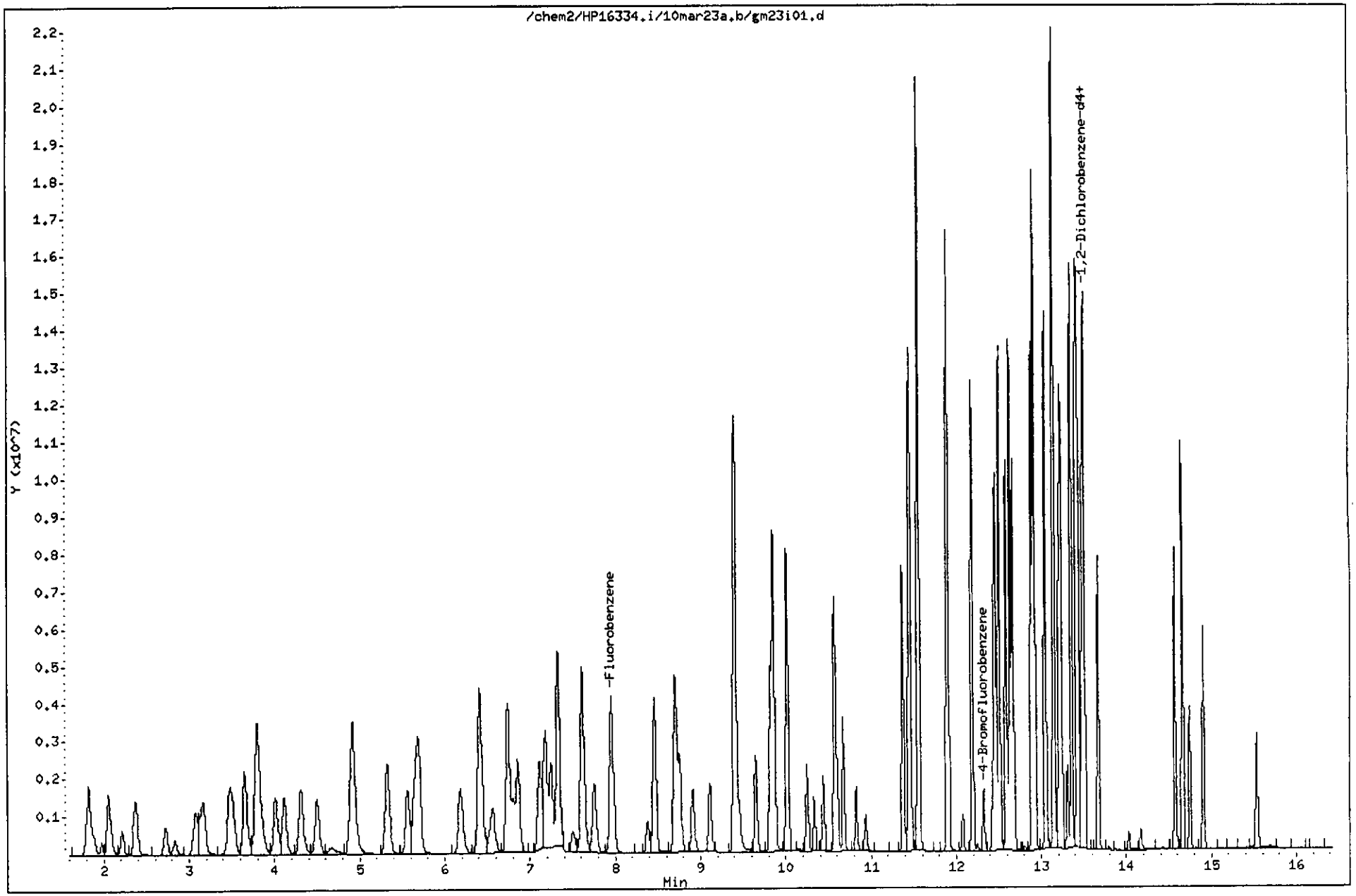
_____ Ver. by _____

Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d
Date : 23-MAR-2010 13:14
Client ID: VSTD025
Sample Info: VSTD025;VSTD025;1;1;;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25

WATII 0114



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.056	85	3045155	25.000
2) Chloromethane	(1)	2.215	50	888570	25.000
3) Vinyl Chloride	(1)	2.355	62	895964	25.000
4) Bromomethane	(1)	2.727	94	722322	25.000
5) Chloroethane	(1)	2.830	64	480654	25.000
6) Dichlorofluoromethane	(1)	3.068	67	1672725	25.000
7) Trichlorofluoromethane	(1)	3.160	101	2926170	25.000
8) Ethyl Ether	(1)	3.464	59	600745	25.000
9) Acrolein	(1)	3.653	56	3650508	1250.000
10) 1,1-Dichloroethene	(1)	3.794	96	1437037	25.000
11) Freon 113	(1)	3.818	101	1654648	25.000
12) Acetone	(1)	3.855	58	286628	250.000
13) Methyl Iodide	(1)	4.013	142	2854774	25.000
14) Carbon Disulfide	(1)	4.117	76	3682228	25.000
15) Allyl Chloride	(1)	4.306	39	1271881	25.000
17) Methylene Chloride	(1)	4.501	84	1336286	25.000
18) t-Butyl Alcohol	(1)	4.672	59	535692	500.000
19) Acrylonitrile	(1)	4.891	53	1612932	312.500
20) trans-1,2-Dichloroethene	(1)	4.921	96	1643168	25.000
21) Methyl Tertiary Butyl Ether	(1)	4.921	73	1977752	25.000
22) 1,1-Dichloroethane	(1)	5.562	63	2727190	25.000
24) di-Isopropyl Ether	(1)	5.653	87	1111734	25.000
25) Ethyl t-Butyl Ether	(1)	6.183	59	2823633	25.000
26) cis-1,2-Dichloroethene	(1)	6.409	96	1601760	25.000
27) 2,2-Dichloropropane	(1)	6.415	77	2410369	25.000
28) 2-Butanone	(1)	6.433	43	1326447M	250.000
29) Propionitrile	(1)	6.531	54	976558	500.000
30) Methyl Acrylate	(1)	6.567	55	2092046	125.000
31) Methacrylonitrile	(1)	6.738	67	1817719	250.000
32) Bromochloromethane	(1)	6.750	128	531258	25.000
33) Tetrahydrofuran	(1)	6.805	71	603258	350.000
34) Chloroform	(1)	6.860	83	2759125	25.000
35) 1,1,1-Trichloroethane	(1)	7.110	97	2716773	25.000
36) 1-Chlorobutane	(1)	7.256	49	124853	25.000

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
37) Carbon Tetrachloride	(1)	7.336	117	2461093M	25.000
38) 1,1-Dichloropropene	(1)	7.330	75	2259985	25.000
39) Benzene	(1)	7.616	78	6194191	25.000
40) 1,2-Dichloroethane	(1)	7.647	62	1288027	25.000
41) t-Amyl Methyl Ether	(1)	7.756	73	2206155	25.000
42) *Fluorobenzene	(1)	7.988	96	1623636	5.000
43) Trichloroethene	(1)	8.463	95	1860440	25.000
44) 1,2-Dichloropropane	(1)	8.762	63	1296627	25.000
45) Methyl Methacrylate	(1)	8.909	69	357943	25.000
46) Dibromomethane	(1)	8.915	93	515509	25.000
47) Bromodichloromethane	(1)	9.116	83	1573197	25.000
48) 2-Nitropropane	(1)	9.408	46	476860	2625.000
49) Chloroacetonitrile	(1)	9.457	75	973720	1250.000
50) cis-1,3-Dichloropropene	(1)	9.652	75	1776712	25.000
51) 4-Methyl-2-Pentanone	(1)	9.823	58	1450519	250.000
52) 1,1-Dichloropropanone	(1)	9.866	83	866528	2500.000
53) Toluene	(1)	10.018	92	4000095	25.000
55) trans-1,3-Dichloropropene	(1)	10.256	75	1317109	25.000
56) Ethyl Methacrylate	(1)	10.335	69	816644	25.000
57) 1,1,2-Trichloroethane	(1)	10.439	83	588811	25.000
58) Tetrachloroethene	(1)	10.579	166	2125775	25.000
59) 1,3-Dichloropropane	(1)	10.609	76	1220883	25.000
60) 2-Hexanone	(1)	10.676	58	1342477	250.000
61) Dibromochloromethane	(1)	10.829	129	892843	25.000
62) 1,2-Dibromoethane	(1)	10.939	107	673583	25.000
64) Chlorobenzene	(1)	11.378	112	4304586	25.000
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	1422122	25.000
66) Ethylbenzene	(1)	11.469	106	2564916	25.000
67) m+p-Xylene	(1)	11.567	106	5909459	50.000
68) o-Xylene	(1)	11.902	106	2774514	25.000
69) Styrene	(1)	11.914	104	4177828	25.000
71) Bromoform	(1)	12.085	173	443606	25.000
72) Isopropylbenzene	(1)	12.194	120	2120357	25.000
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	690732M	25.000

M = Compound was manually integrated.

* = Compound is an internal standard.

WAT11 0116

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

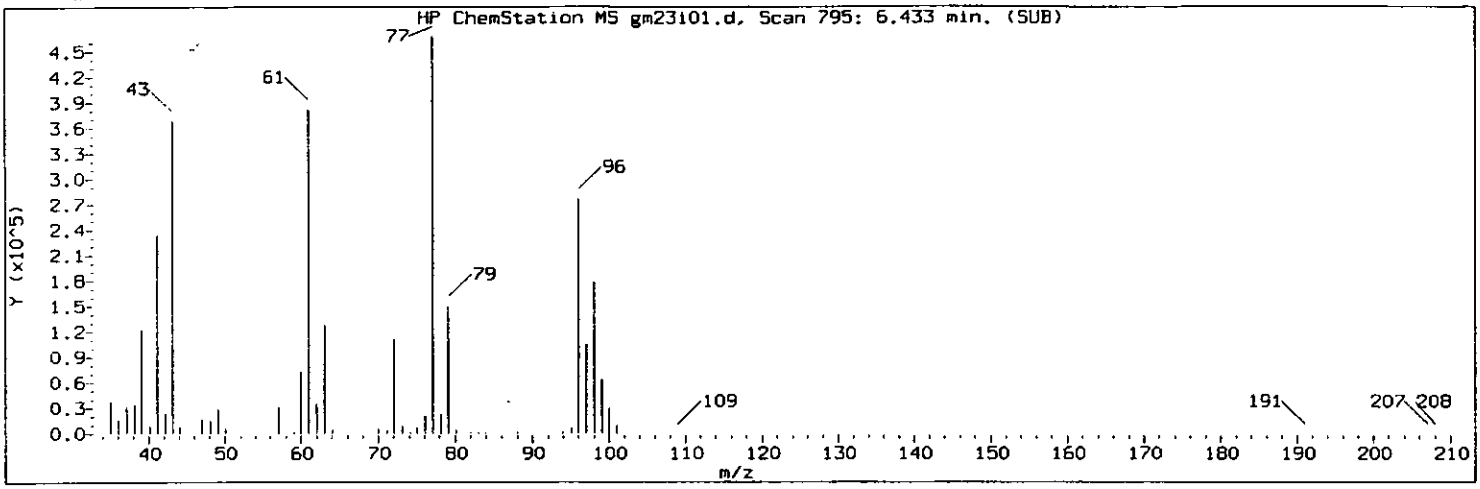
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
75) Bromobenzene	(1)	12.457	156	1598667	25.000
76) 1,2,3-Trichloropropane	(1)	12.475	110	193587	25.000
77) trans-1,4-Dichloro-2-Butene	(1)	12.469	53	1336334M	250.000
78) n-Propylbenzene	(1)	12.518	120	2335680	25.000
79) 2-Chlorotoluene	(1)	12.597	126	1928409	25.000
80) 1,3,5-Trimethylbenzene	(1)	12.639	105	7267463	25.000
81) 4-Chlorotoluene	(1)	12.676	126	1905823	25.000
82) tert-Butylbenzene	(1)	12.896	134	1561294M	25.000
83) Pentachloroethane	(1)	12.926	167	997378	25.000
84) 1,2,4-Trimethylbenzene	(1)	12.926	105	7040614	25.000
85) sec-Butylbenzene	(1)	13.054	134	1914295	25.000
86) p-Isopropyltoluene	(1)	13.145	119	7788981	25.000
87) 1,3-Dichlorobenzene	(1)	13.152	146	3303664	25.000
88) 1,4-Dichlorobenzene	(1)	13.219	146	3400510	25.000
89) n-Butylbenzene	(1)	13.438	92	3890783	25.000
91) 1,2-Dichlorobenzene	(1)	13.487	146	2678370	25.000
92) Hexachloroethane	(1)	13.676	201	1293721	25.000
93) 1,2-Dibromo-3-Chloropropane	(1)	14.029	157	124896	25.000
94) Nitrobenzene	(1)	14.170	77	265710	500.000
95) 1,2,4-Trichlorobenzene	(1)	14.572	180	2377726	25.000
96) Hexachlorobutadiene	(1)	14.663	225	1957570	25.000
97) Naphthalene	(1)	14.749	128	2738130	25.000
98) 1,2,3-Trichlorobenzene	(1)	14.907	180	1773404	25.000
73)$4-Bromofluorobenzene	(1)	12.329	174	445763	5.000
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	423402	5.000

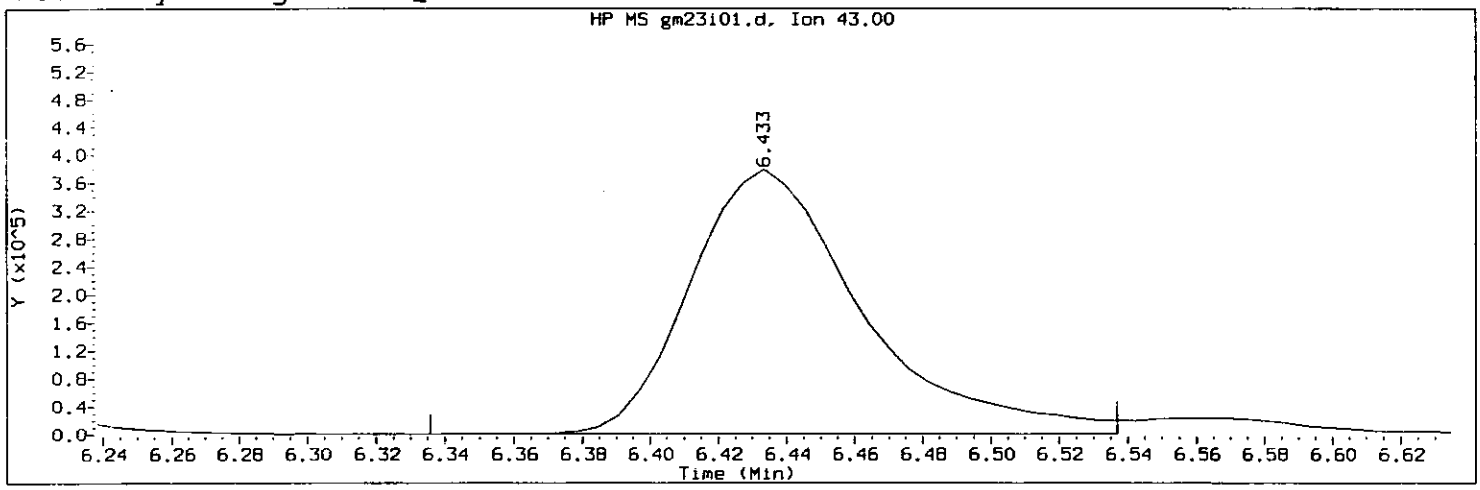
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 795
Retention Time (minutes): 6.433
Quant Ion : 43
Area (flag) : 1326447 M
Concentration (ug/L) : 250.0000
Integration start scan : 778 Integration stop scan: 811
Y at integration start : 690 Y at integration end: 690

Reason for manual integration (circle one): missed peak improper integration

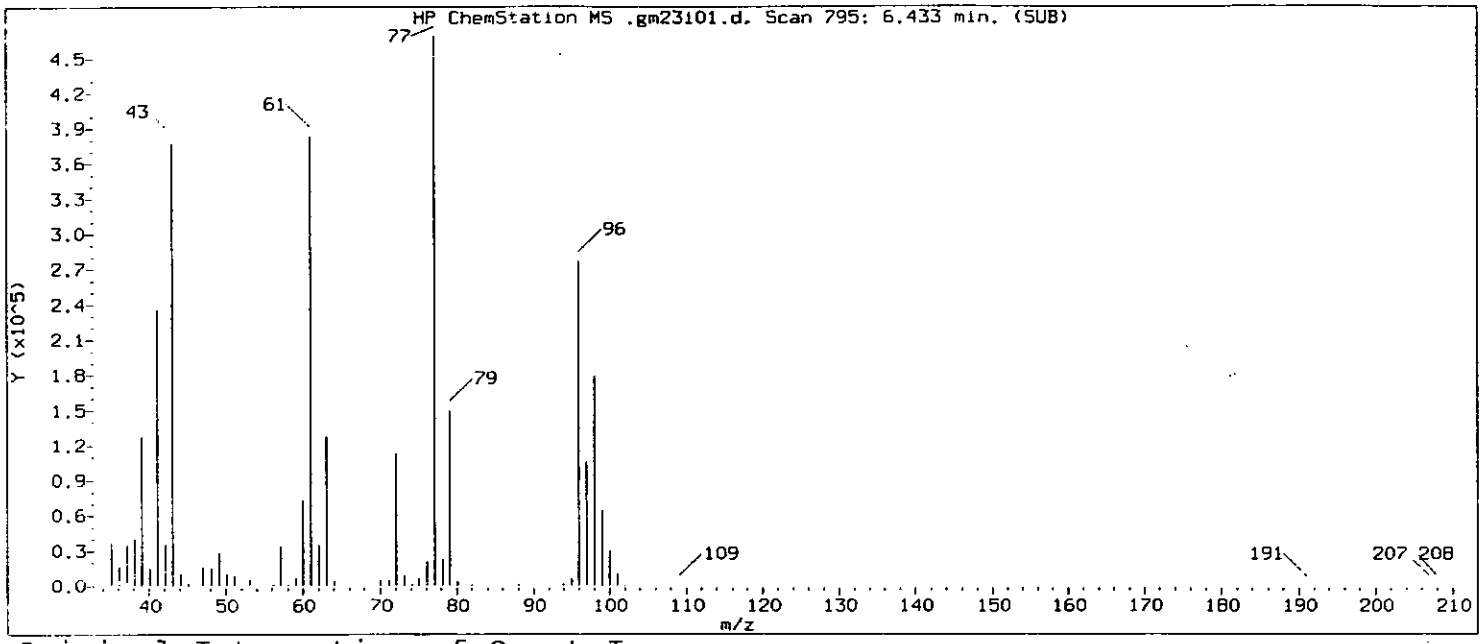
Analyst responsible for change: mw3 3/23/10

GC/MS audit/management approval: [signature] 3/24/10

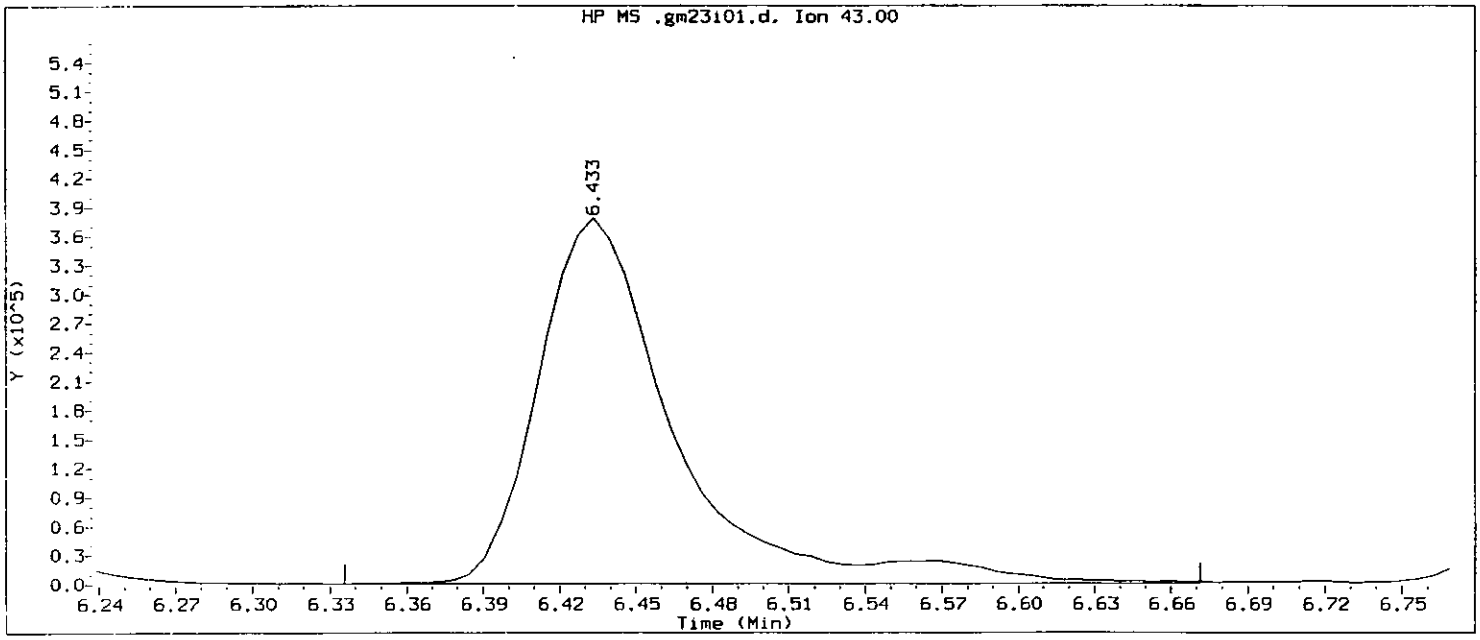
WAT11 0118

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:32
Date, time and analyst ID of latest file update: 23-Mar-2010 13:32 Automation

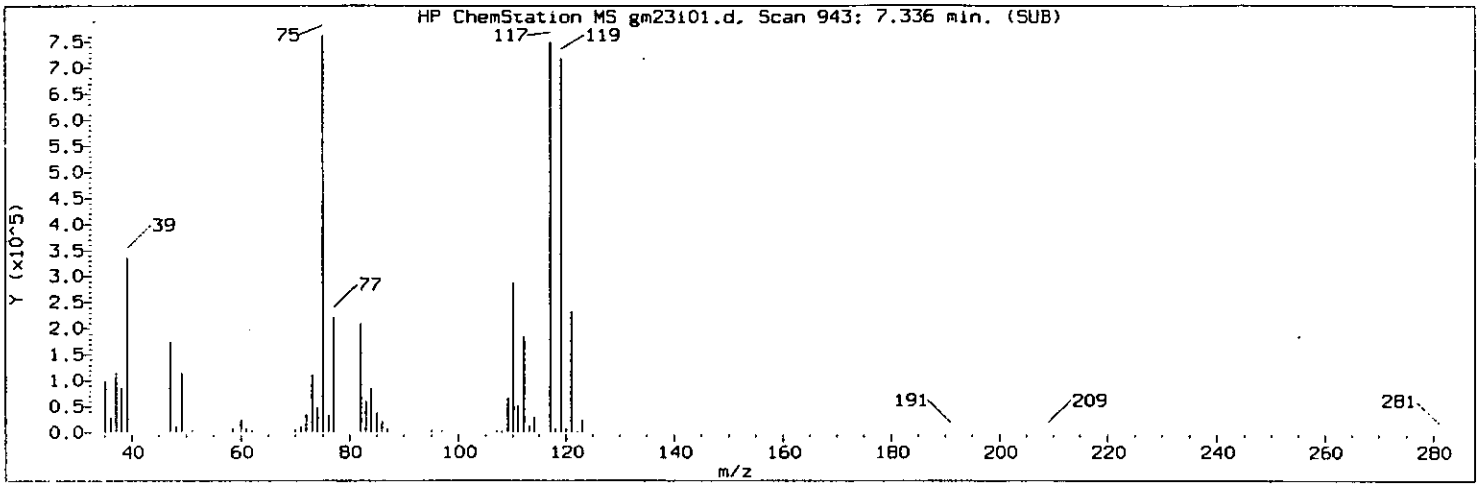
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number	:	28
Compound Name	:	2-Butanone
Scan Number	:	795
Retention Time (minutes)	:	6.433
Quant Ion	:	43
Area	:	1410911
Concentration (ug/L)	:	280.8491
Integration start scan	:	778 Integration stop scan: 833
Y at integration start	:	664 Y at integration end: 698

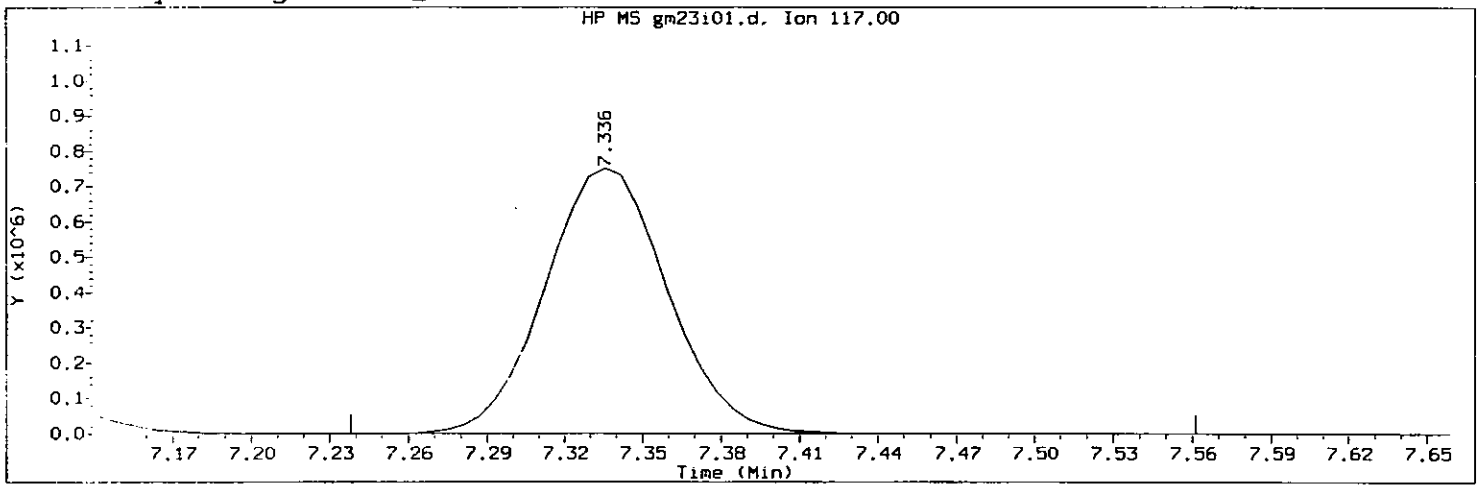
WAT11 0119

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 37
Compound Name : Carbon Tetrachloride
Scan Number : 943
Retention Time (minutes): 7.336
Quant Ion : 117
Area (flag) : 2461093 M
Concentration (ug/L) : 25.0000
Integration start scan : 926 Integration stop scan: 979
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

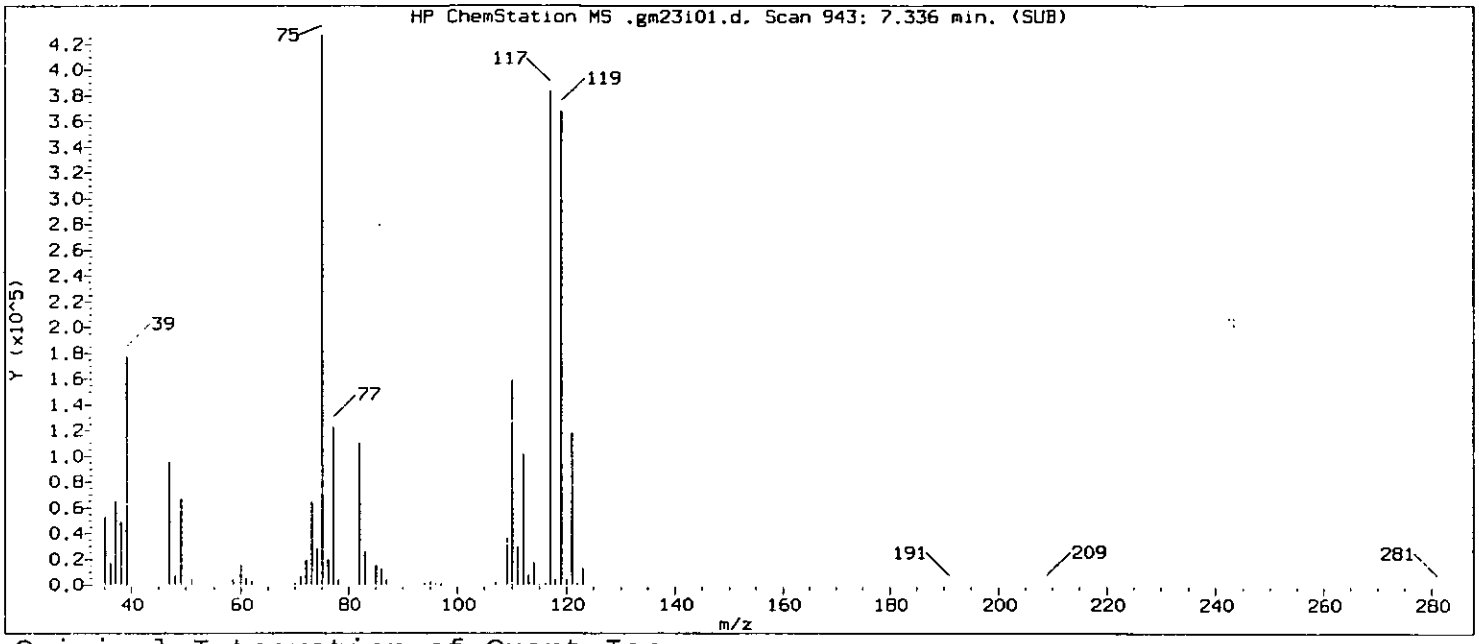
Analyst responsible for change: JMW 3/23/10

WAT11 0128

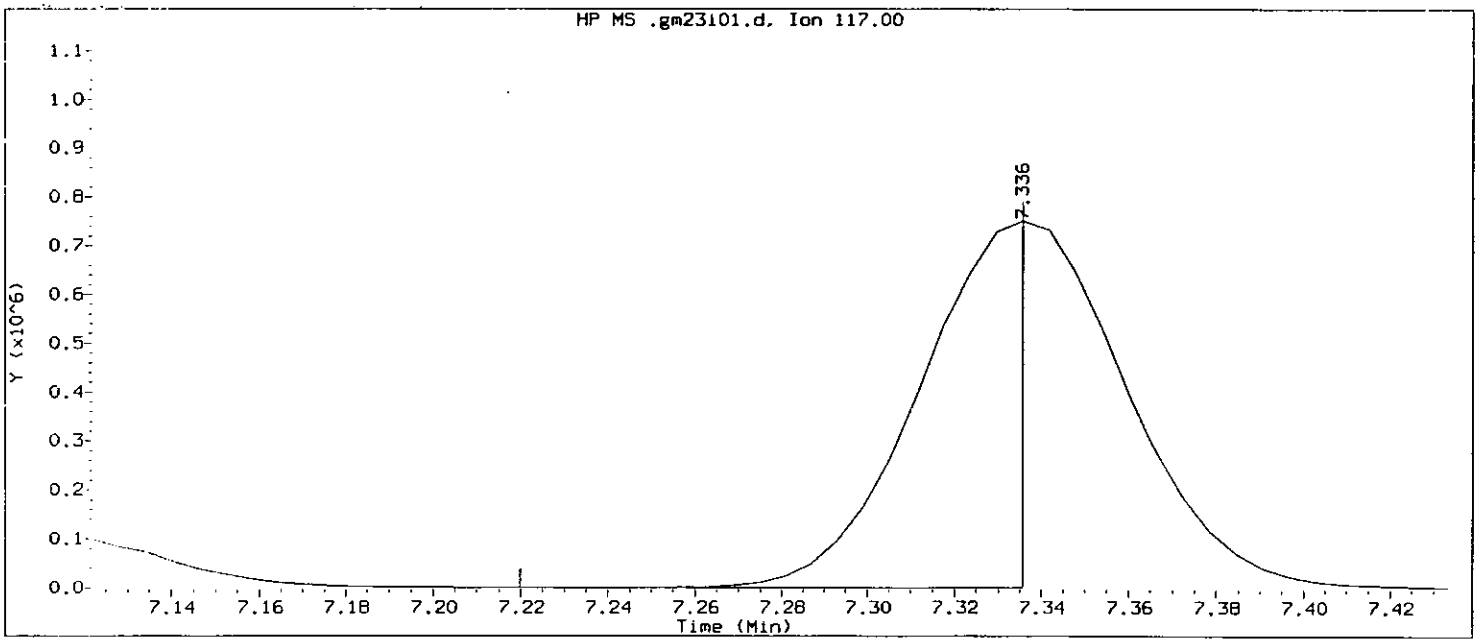
GC/MS audit/management approval: [signature] 3/24/10

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:32
Date, time and analyst ID of latest file update: 23-Mar-2010 13:32 Automation

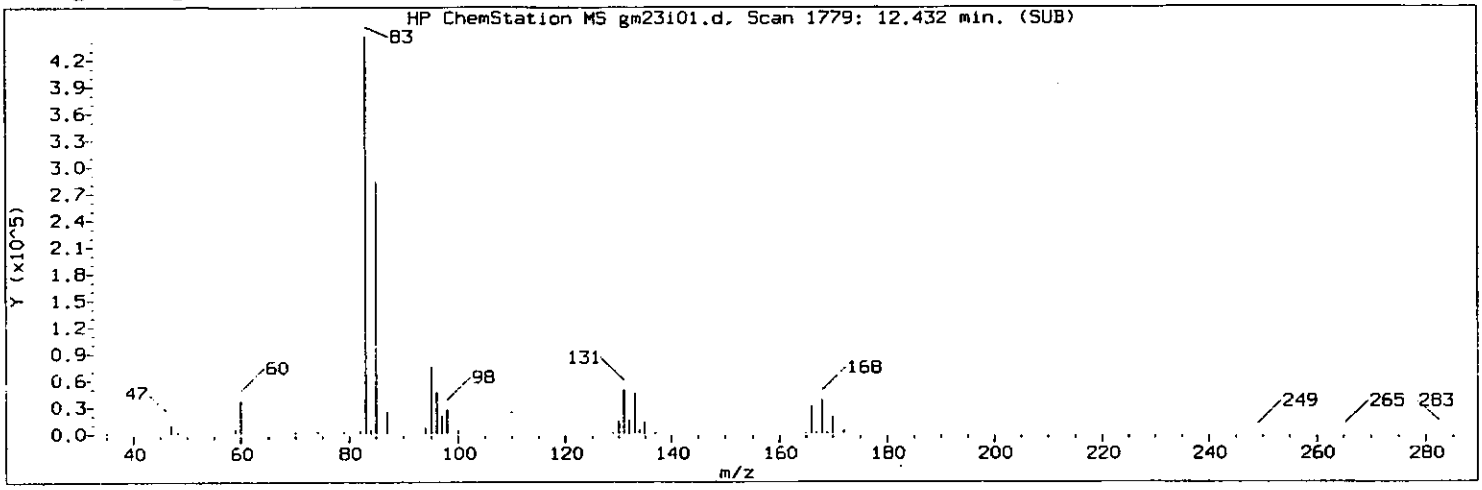
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number	: 37
Compound Name	: Carbon Tetrachloride
Scan Number	: 943
Retention Time (minutes)	: 7.336
Quant Ion	: 117
Area	: 1200450
Concentration (ug/L)	: 14.9227
Integration start scan	: 923 Integration stop scan: 942
Y at integration start	: 232 Y at integration end: 232

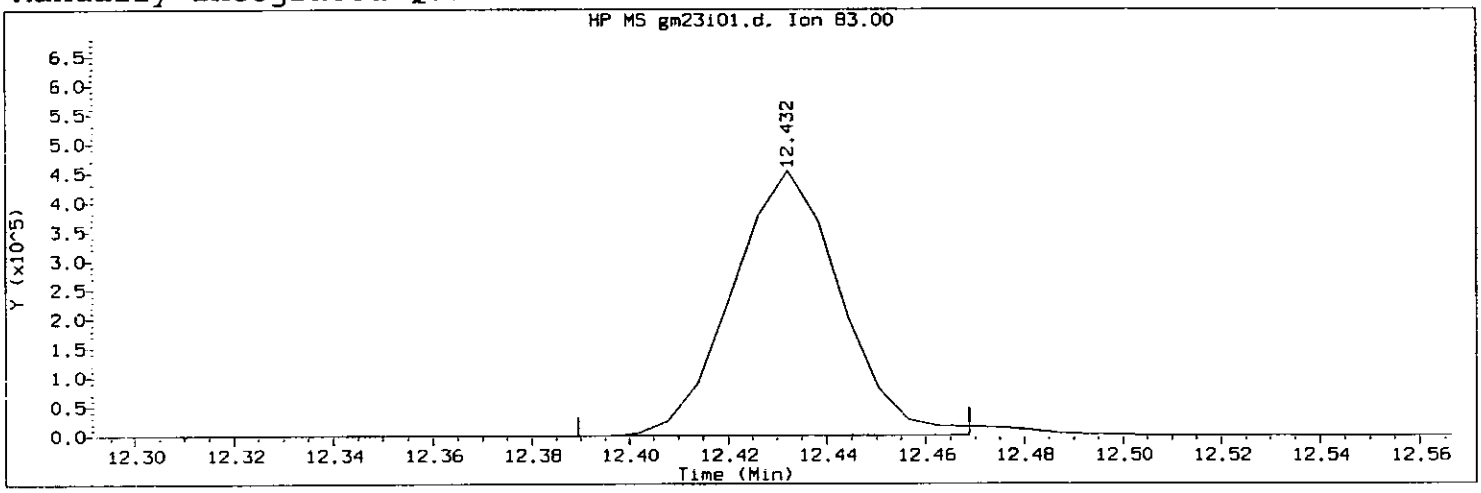
WAT11 8121

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area (flag)	:	690732 M
Concentration (ug/L)	:	25.0000
Integration start scan	:	1771 Integration stop scan: 1784
Y at integration start	:	0 Y at integration end: 0

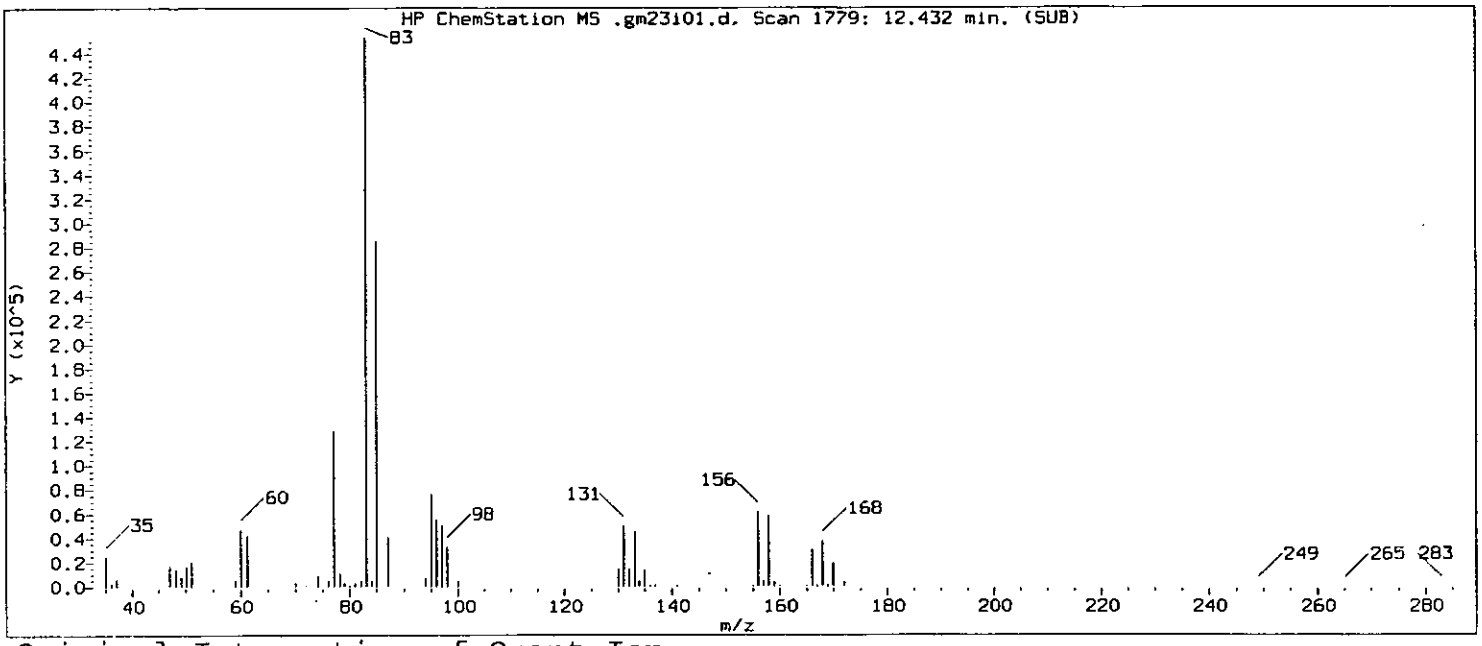
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: JMM 3/23/10

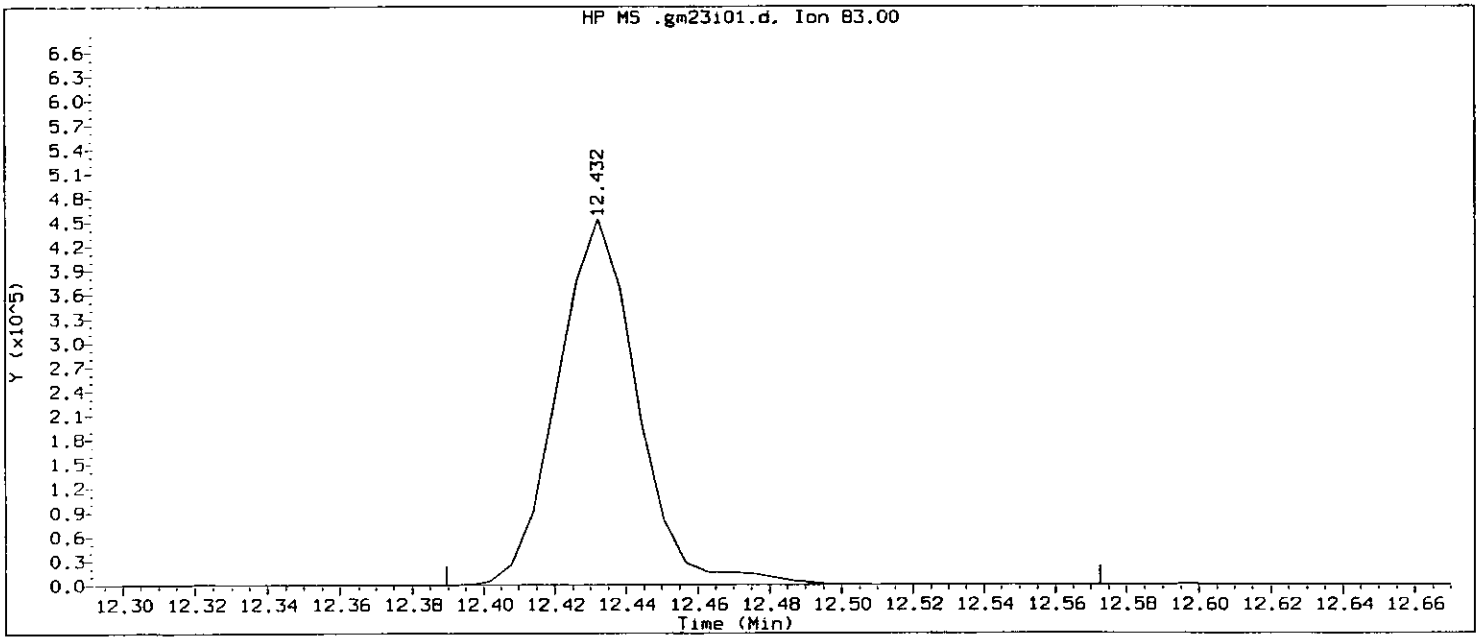
WAT11 0122

GC/MS audit/management approval: 3/24/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:32
Date, time and analyst ID of latest file update: 23-Mar-2010 13:32 Automation

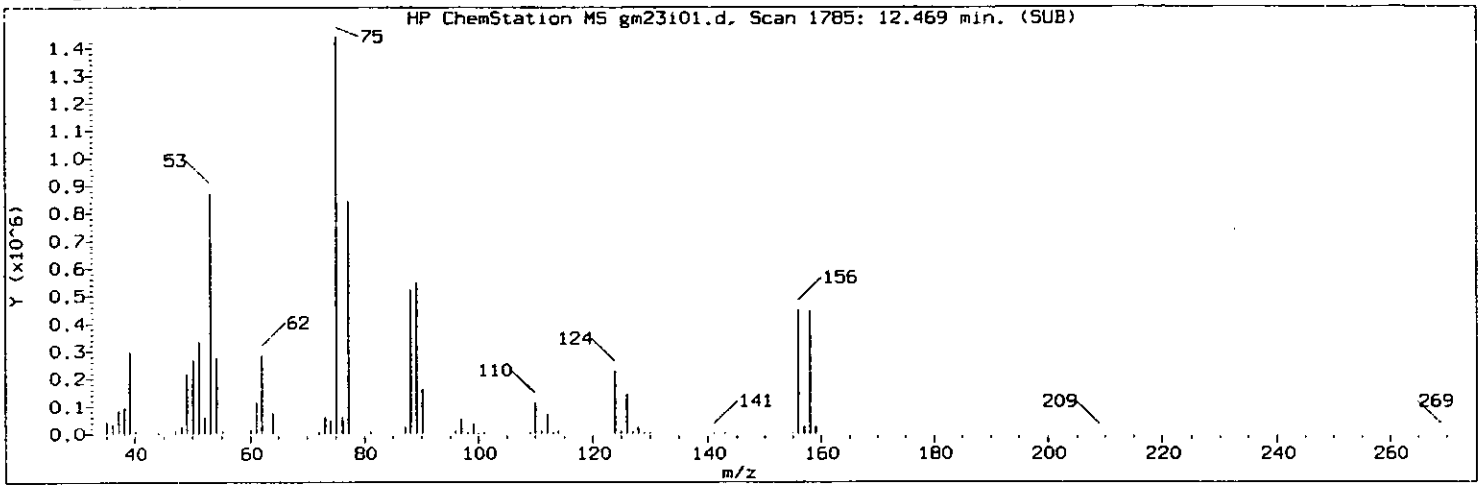
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area	:	702733
Concentration (ug/L)	:	27.0090
Integration start scan	:	1771 Integration stop scan: 1801
Y at integration start	:	0 Y at integration end: 0

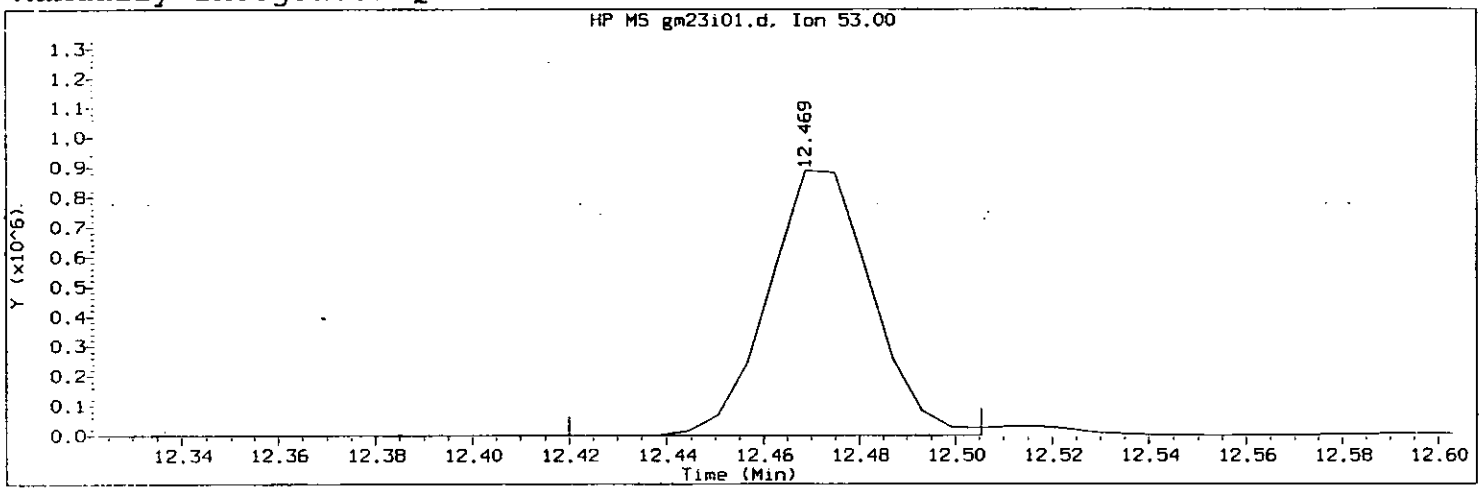
WAT11 8123

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 77
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1785
Retention Time (minutes): 12.469
Quant Ion : 53
Area (flag) : 1336334 M
Concentration (ug/L) : 250.0000
Integration start scan : 1776 Integration stop scan: 1790
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

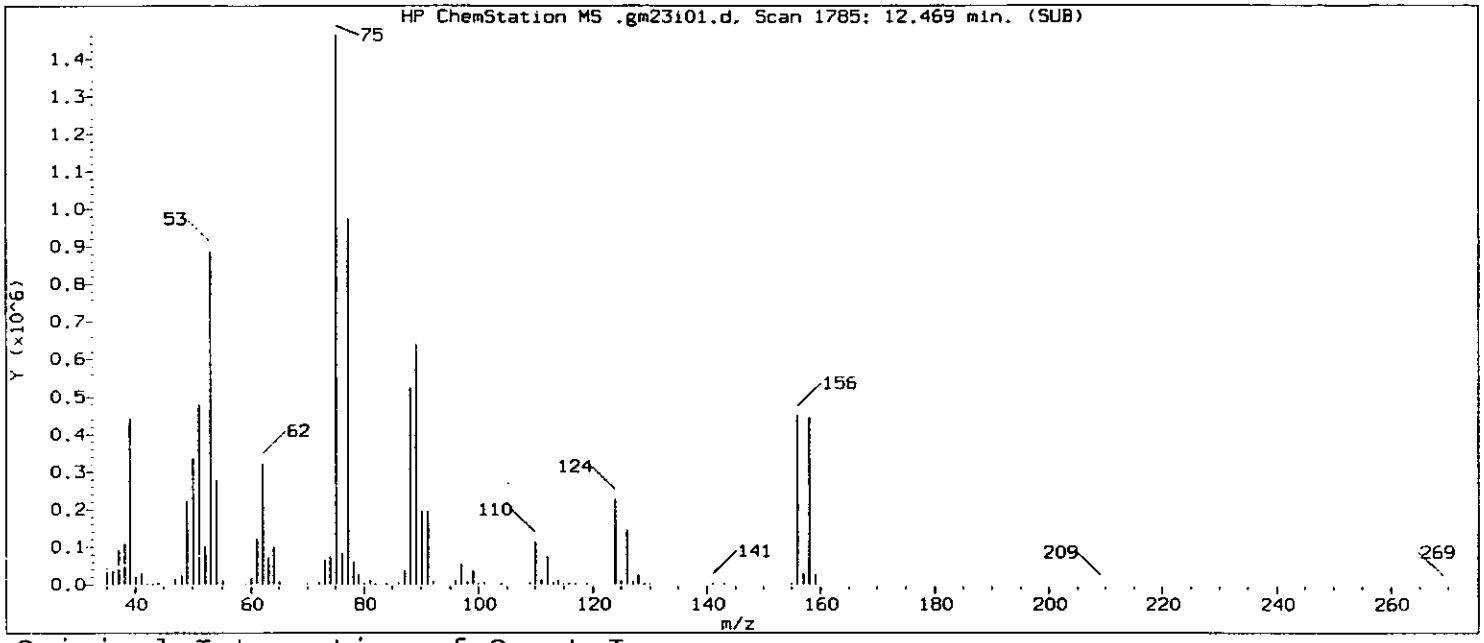
Analyst responsible for change: JMW 3/23/10

GC/MS audit/management approval: 3/24/10

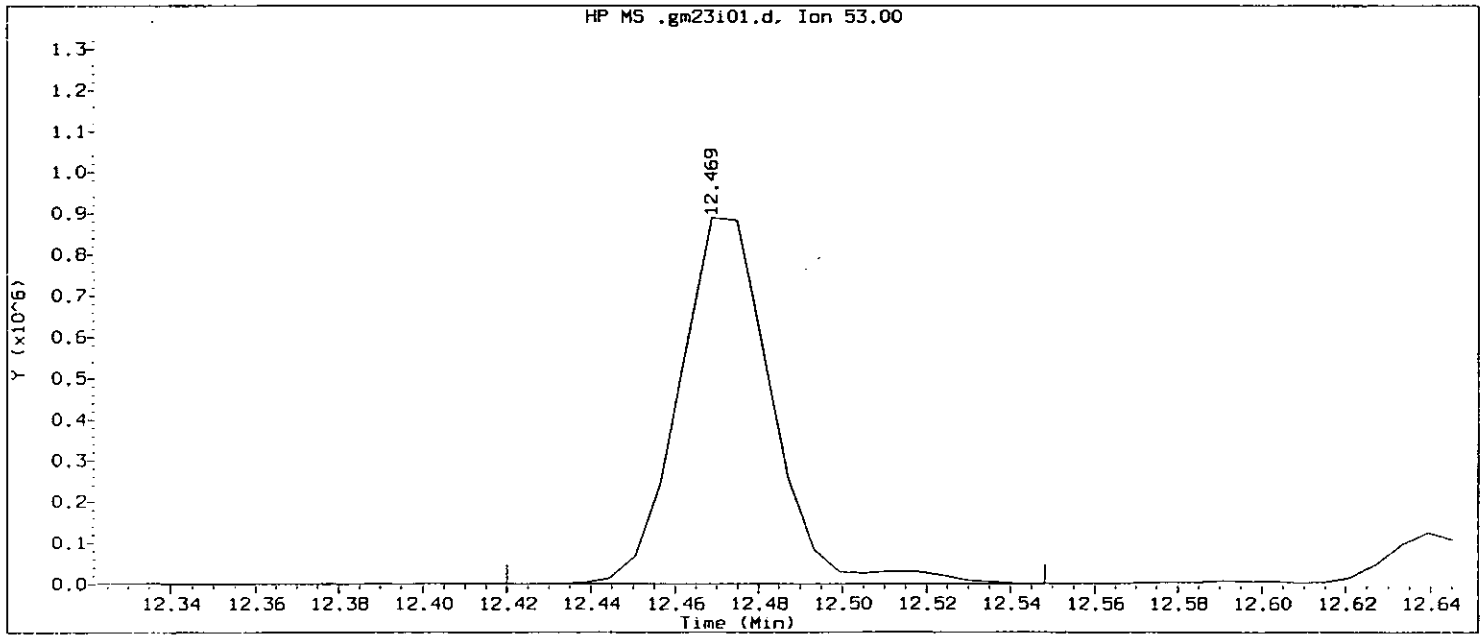
WAT11 0124

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:32
Date, time and analyst ID of latest file update: 23-Mar-2010 13:32 Automation

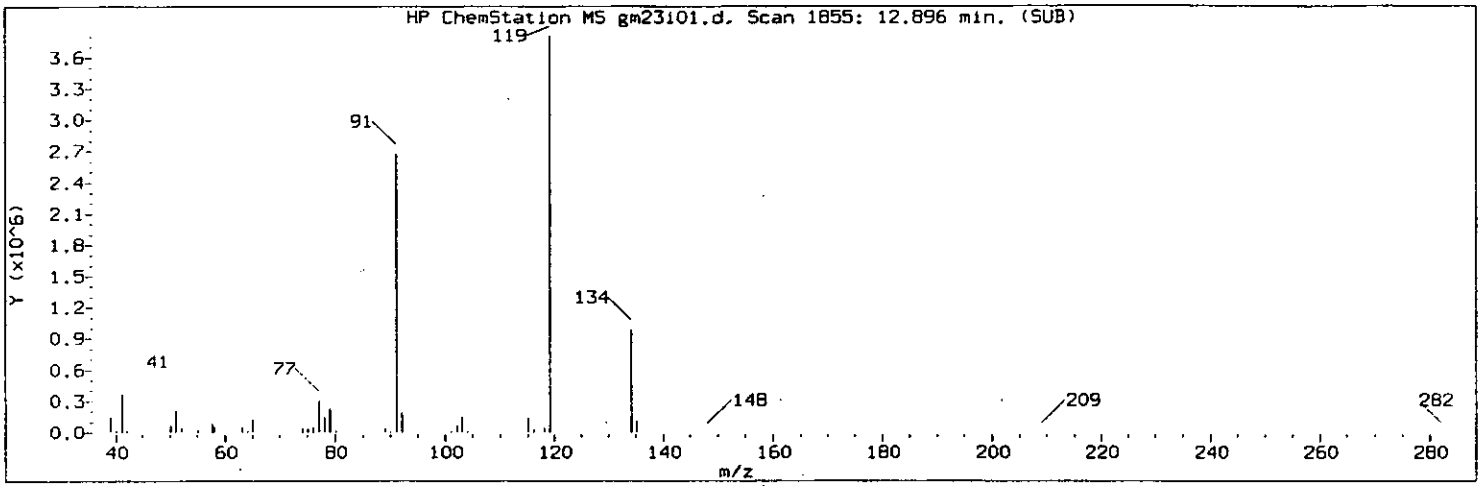
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number	:	77
Compound Name	:	trans-1,4-Dichloro-2-Butene
Scan Number	:	1785
Retention Time (minutes)	:	12.469
Quant Ion	:	53
Area	:	1372025
Concentration (ug/L)	:	249.9660
Integration start scan	:	1776 Integration stop scan: 1797
Y at integration start	:	0 Y at integration end: 0

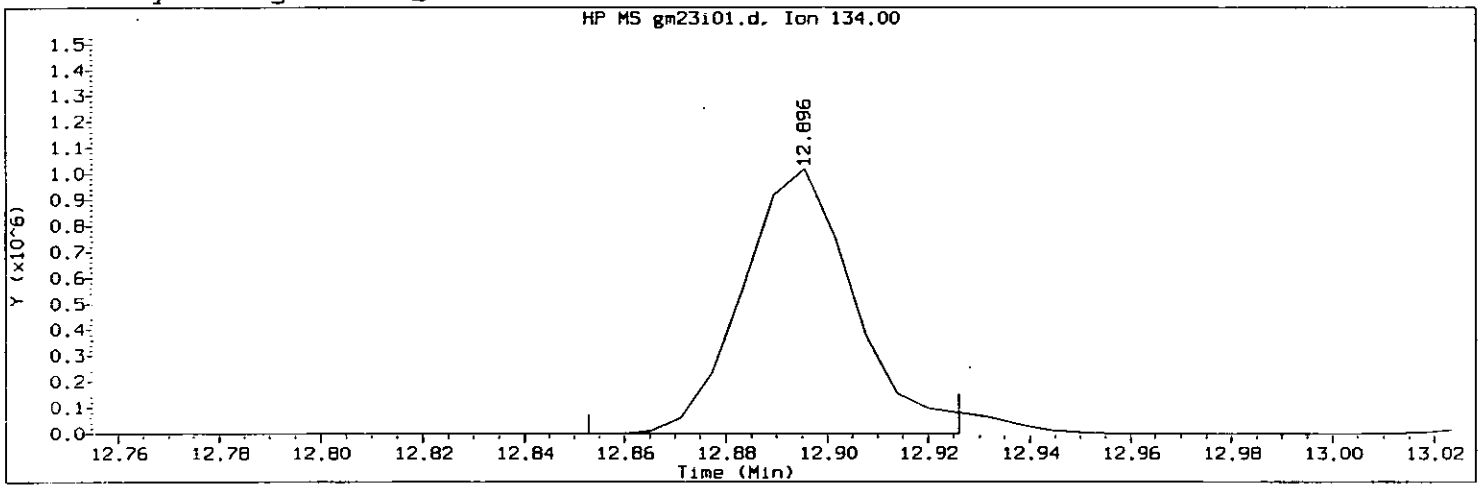
WAT11 8125

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.896
Quant Ion	:	134
Area (flag)	:	1561294 M
Concentration (ug/L)	:	25.0000
Integration start scan	:	1847 Integration stop scan: 1859
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

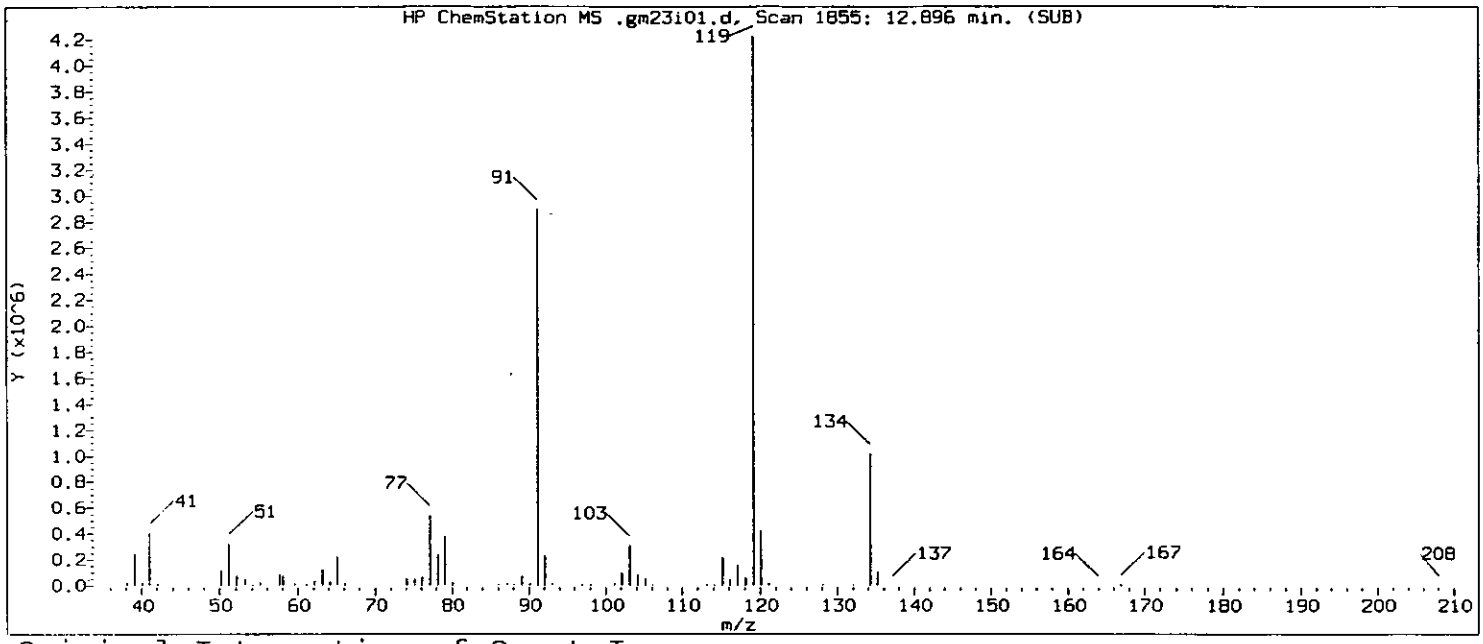
Analyst responsible for change: JMW 3/23/10

GC/MS audit/management approval: 3/24/10

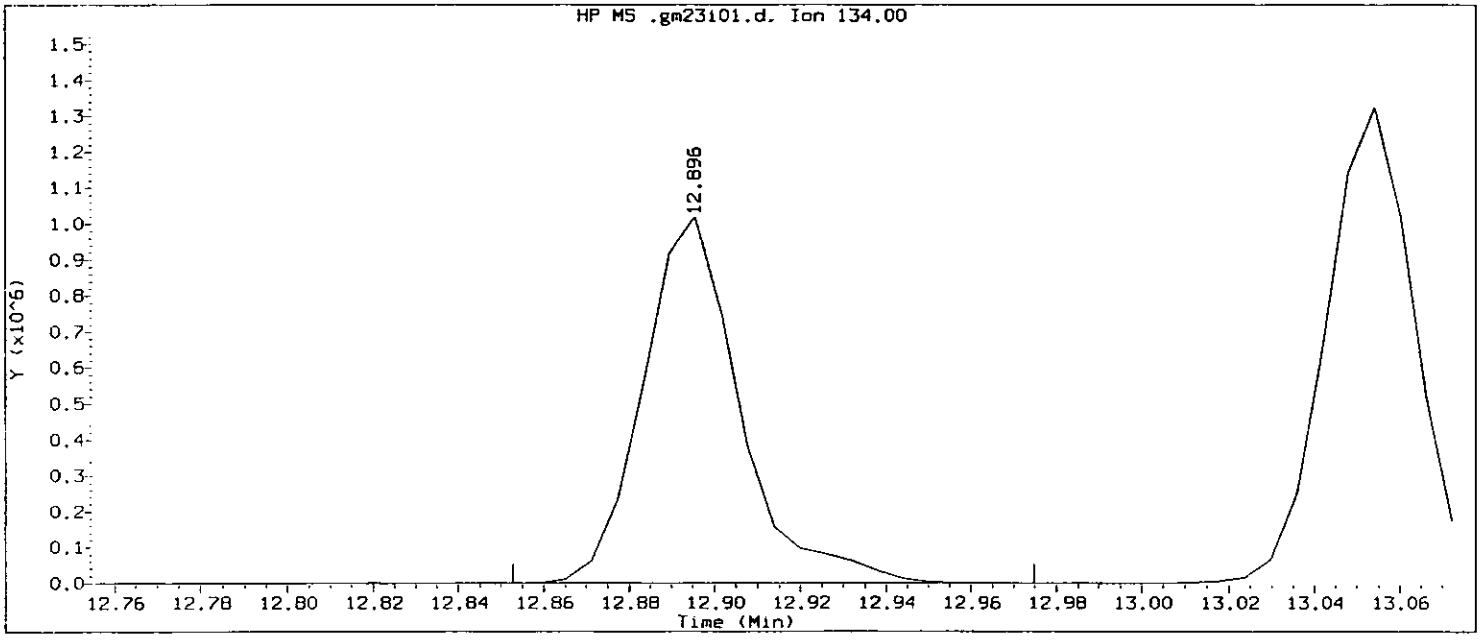
WAT11 0126

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:14 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:32
Date, time and analyst ID of latest file update: 23-Mar-2010 13:32 Automation

Sample Name: VSTD025 Lab Sample ID: VSTD025

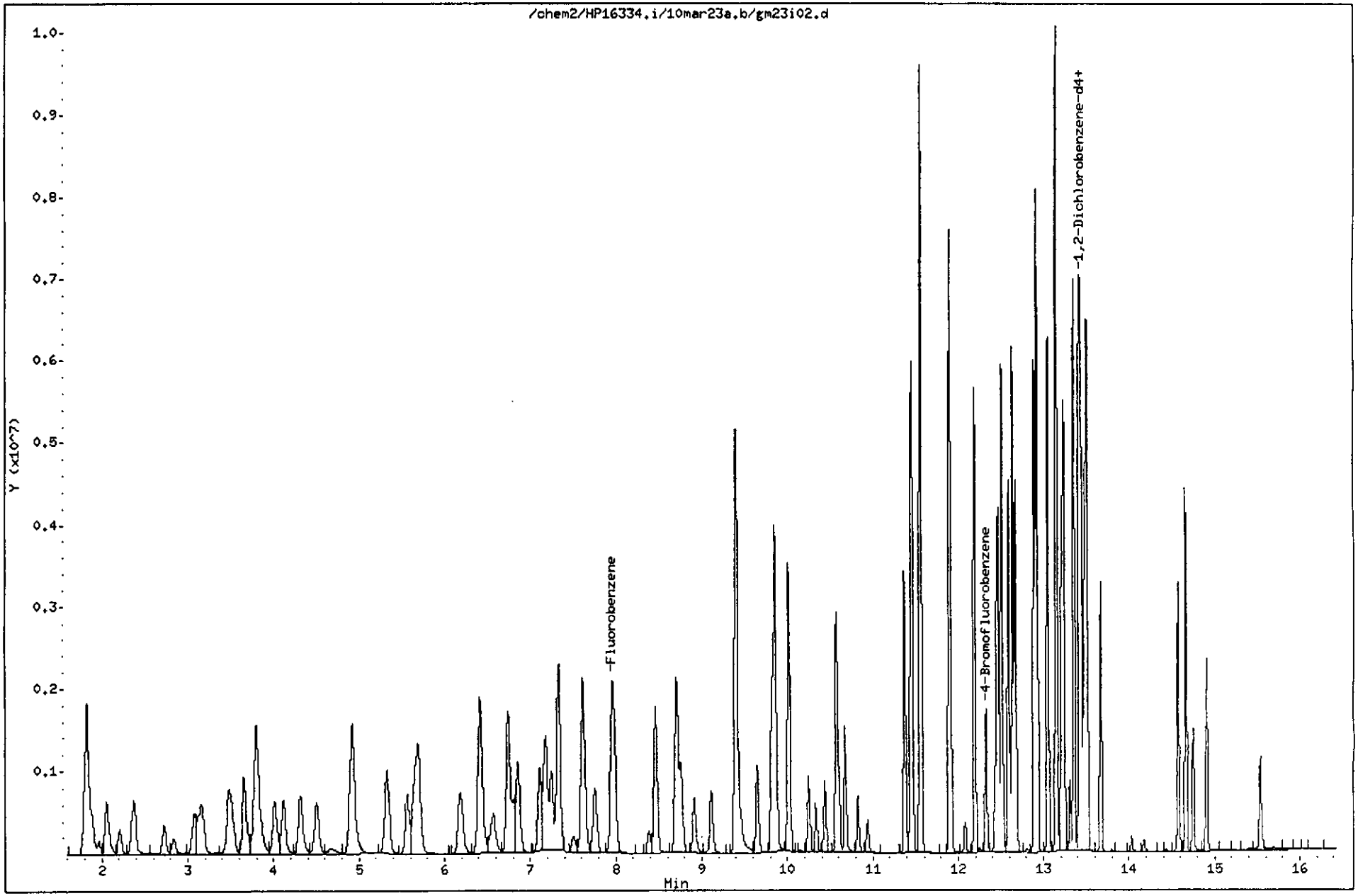
Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.896
Quant Ion	:	134
Area	:	1603305
Concentration (ug/L)	:	24.3945
Integration start scan	:	1847 Integration stop scan: 1867
Y at integration start	:	0 Y at integration end: 0

WAT11 0127

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i01.d, generated on 03/23/2010 at 15:13

Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d
Date : 23-MAR-2010 13:36
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;1;;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i
Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.056	85	1230051	9.536
2) Chloromethane	(1)	2.209	50	409147	10.190
3) Vinyl Chloride	(1)	2.343	62	404863	10.096
4) Bromomethane	(1)	2.721	94	341091	10.316
5) Chloroethane	(1)	2.837	64	228416	10.348
6) Dichlorofluoromethane	(1)	3.068	67	759192	10.118
7) Trichlorofluoromethane	(1)	3.160	101	1257767	9.846
8) Ethyl Ether	(1)	3.465	59	265698	9.989
9) Acrolein	(1)	3.654	56	1611809	499.031
10) 1,1-Dichloroethene	(1)	3.788	96	628252	9.931
11) Freon 113	(1)	3.812	101	714345	9.868
12) Acetone	(1)	3.867	58	111471	93.470
13) Methyl Iodide	(1)	4.013	142	1249706	9.938
14) Carbon Disulfide	(1)	4.117	76	1592460	9.877
15) Allyl Chloride	(1)	4.312	39	540956	9.794
17) Methylene Chloride	(1)	4.501	84	591215	9.991
18) t-Butyl Alcohol	(1)	4.672	59	217294	191.138
19) Acrylonitrile	(1)	4.897	53	697724	123.380
20) trans-1,2-Dichloroethene	(1)	4.922	96	733556	10.036
21) Methyl Tertiary Butyl Ether	(1)	4.922	73	882972	10.036
22) 1,1-Dichloroethane	(1)	5.568	63	1204293	9.981
24) di-Isopropyl Ether	(1)	5.659	87	496468M	10.037
25) Ethyl t-Butyl Ether	(1)	6.190	59	1249820	9.993
26) cis-1,2-Dichloroethene	(1)	6.409	96	719372	10.066
27) 2,2-Dichloropropane	(1)	6.415	77	1026313	9.799
28) 2-Butanone	(1)	6.433	43	580048M	99.324
29) Propionitrile	(1)	6.537	54	425573	198.304
30) Methyl Acrylate	(1)	6.574	55	918431	49.760
31) Methacrylonitrile	(1)	6.738	67	821209	100.954
32) Bromochloromethane	(1)	6.750	128	239709	10.089
33) Tetrahydrofuran	(1)	6.805	71	267668	140.072
34) Chloroform	(1)	6.860	83	1213893	9.963
35) 1,1,1-Trichloroethane	(1)	7.116	97	1148347	9.763
36) 1-Chlorobutane	(1)	7.250	49	53397	9.821

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
37) Carbon Tetrachloride	(1)	7.336	117	1032911	9.727
38) 1,1-Dichloropropene	(1)	7.330	75	999629	9.990
39) Benzene	(1)	7.616	78	2767191	10.039
40) 1,2-Dichloroethane	(1)	7.647	62	551862	9.830
41) t-Amyl Methyl Ether	(1)	7.756	73	971185	9.966
42)*Fluorobenzene	(1)	7.988	96	1799171	5.000
43) Trichloroethene	(1)	8.464	95	816143	9.948
44) 1,2-Dichloropropane	(1)	8.762	63	577874	10.027
45) Methyl Methacrylate	(1)	8.902	69	158391	9.992
46) Dibromomethane	(1)	8.915	93	224701	9.916
47) Bromodichloromethane	(1)	9.116	83	662643	9.745
48) 2-Nitropropane	(1)	9.402	46	204939	1033.790
49) Chloroacetonitrile	(1)	9.457	75	395410	478.122
50) cis-1,3-Dichloropropene	(1)	9.652	75	770824	9.893
51) 4-Methyl-2-Pentanone	(1)	9.823	58	665396	101.717
52) 1,1-Dichloropropanone	(1)	9.860	83	377293	991.080
53) Toluene	(1)	10.018	92	1789976	10.048
55) trans-1,3-Dichloropropene	(1)	10.250	75	549510	9.697
56) Ethyl Methacrylate	(1)	10.335	69	351444	9.852
57) 1,1,2-Trichloroethane	(1)	10.439	83	257500	9.933
58) Tetrachloroethene	(1)	10.579	166	923028	9.897
59) 1,3-Dichloropropane	(1)	10.609	76	532084	9.916
60) 2-Hexanone	(1)	10.677	58	601990	100.580
61) Dibromochloromethane	(1)	10.829	129	370381	9.669
62) 1,2-Dibromoethane	(1)	10.939	107	286193	9.788
64) Chlorobenzene	(1)	11.378	112	1904024	9.990
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	609509	9.832
66) Ethylbenzene	(1)	11.469	106	1145282	10.037
67) m+p-Xylene	(1)	11.567	106	2734269	20.429
68) o-Xylene	(1)	11.902	106	1279339	10.197
69) Styrene	(1)	11.914	104	1897224	10.121
71) Bromoform	(1)	12.085	173	175953	9.445
72) Isopropylbenzene	(1)	12.195	120	939863	10.000
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	292053M	9.764

M = Compound was manually integrated.

* = Compound is an internal standard.

WAT11 0330

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

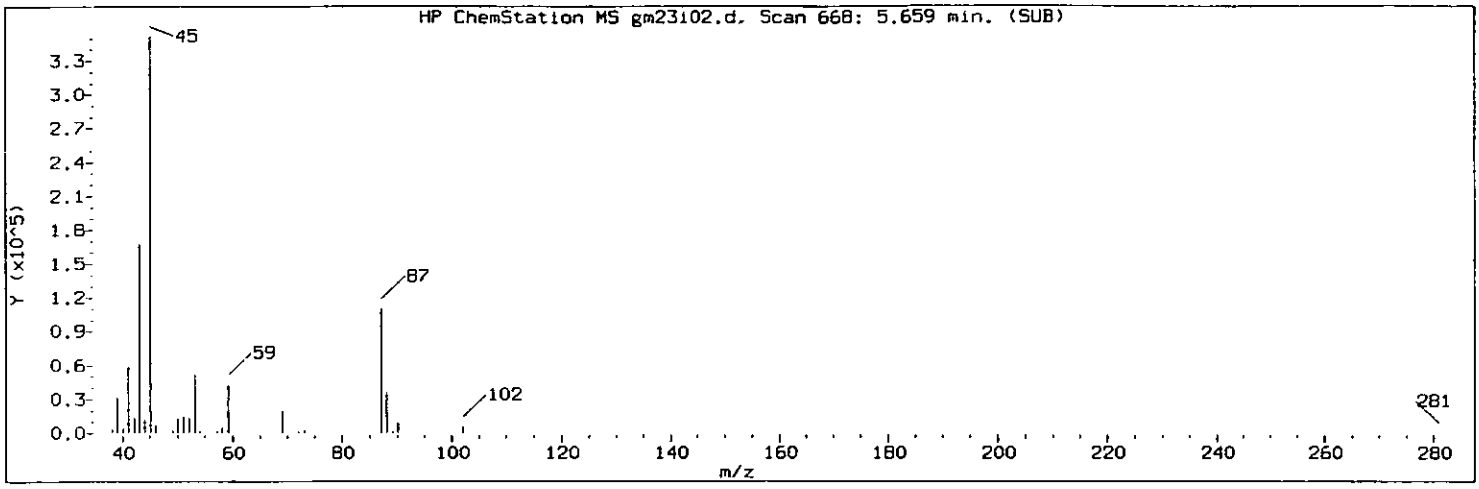
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
75) Bromobenzene	(1)	12.457	156	697640	9.922
76) 1,2,3-Trichloropropane	(1)	12.475	110	85842	10.002
77) trans-1,4-Dichloro-2-Butene	(1)	12.469	53	542958M	95.652
78) n-Propylbenzene	(1)	12.518	120	1034027	9.994
79) 2-Chlorotoluene	(1)	12.597	126	844769	9.941
80) 1,3,5-Trimethylbenzene	(1)	12.640	105	3191479	9.954
81) 4-Chlorotoluene	(1)	12.676	126	840812	9.977
82) tert-Butylbenzene	(1)	12.896	134	675050M	9.876
83) Pentachloroethane	(1)	12.926	167	424671	9.799
84) 1,2,4-Trimethylbenzene	(1)	12.926	105	3119930	9.999
85) sec-Butylbenzene	(1)	13.054	134	832556	9.905
86) p-Isopropyltoluene	(1)	13.146	119	3523746	10.102
87) 1,3-Dichlorobenzene	(1)	13.152	146	1496377	10.108
88) 1,4-Dichlorobenzene	(1)	13.219	146	1493141	9.953
89) n-Butylbenzene	(1)	13.438	92	1748147	10.068
91) 1,2-Dichlorobenzene	(1)	13.487	146	1172564	9.938
92) Hexachloroethane	(1)	13.676	201	516684	9.479
93) 1,2-Dibromo-3-Chloropropane	(1)	14.030	157	49502	9.441
94) Nitrobenzene	(1)	14.176	77	75932	156.798
95) 1,2,4-Trichlorobenzene	(1)	14.572	180	953319	9.499
96) Hexachlorobutadiene	(1)	14.664	225	798071	9.582
97) Naphthalene	(1)	14.749	128	1073074	9.385
98) 1,2,3-Trichlorobenzene	(1)	14.907	180	695933	9.392
73)$4-Bromofluorobenzene	(1)	12.329	174	471690	4.885
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	454214	4.919

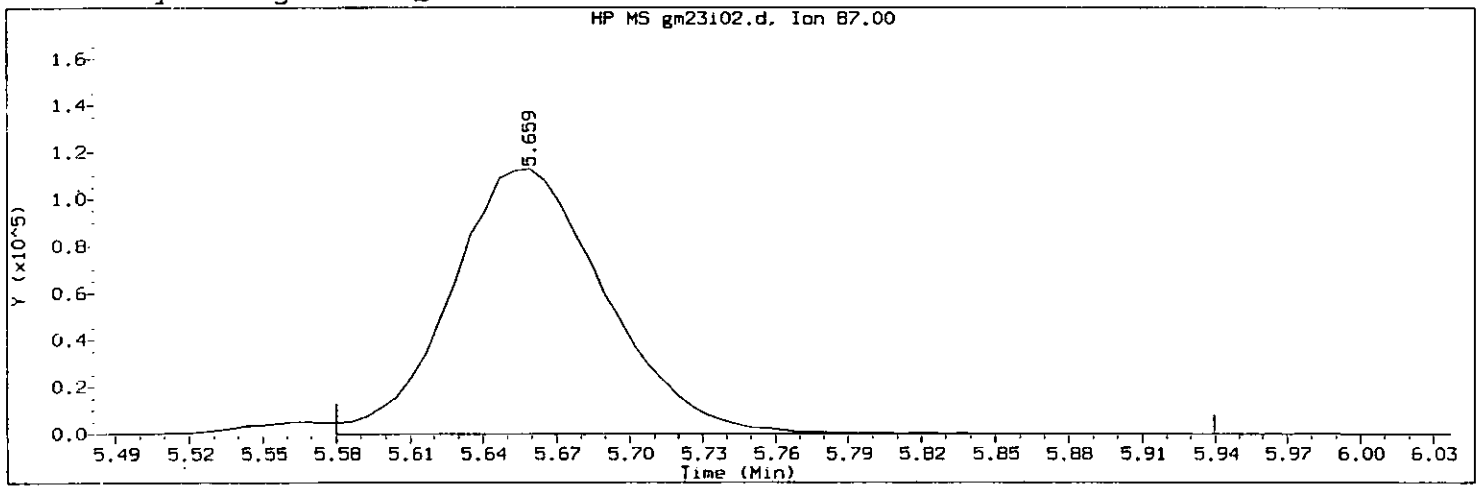
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 24
Compound Name : di-Isopropyl Ether
Scan Number : 668
Retention Time (minutes): 5.659
Quant Ion : 87
Area (flag) : 496468 M
Concentration (ug/L) : 10.0374
Integration start scan : 654 Integration stop scan: 713
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

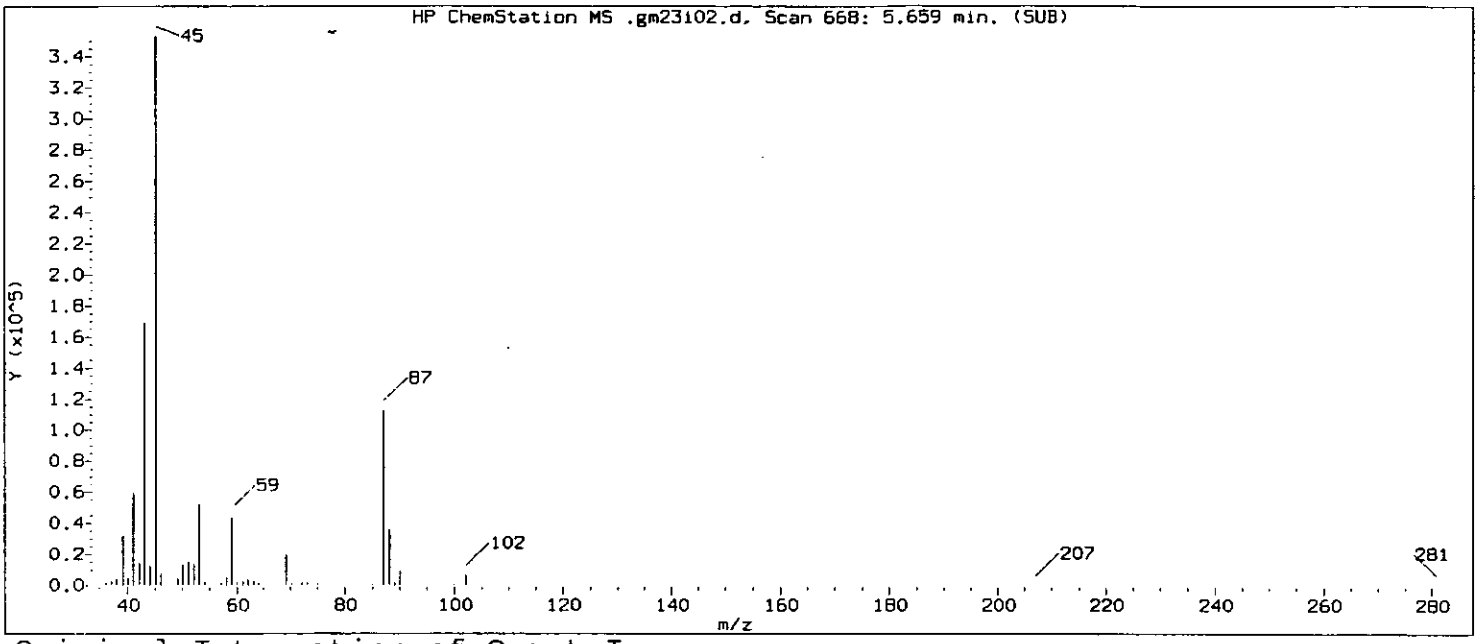
Analyst responsible for change: JMW 3/23/10

GC/MS audit/management approval: 3/24/10

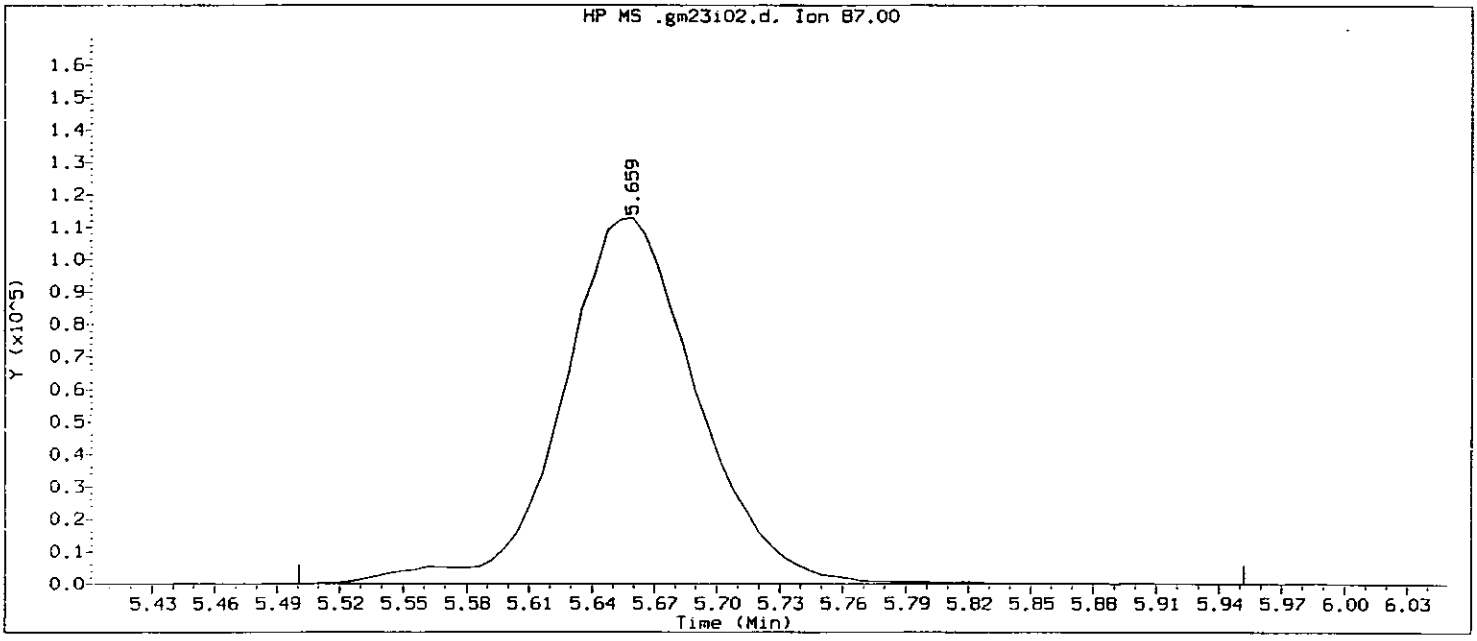
WAT11 0132

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:54
Date, time and analyst ID of latest file update: 23-Mar-2010 13:54 Automation

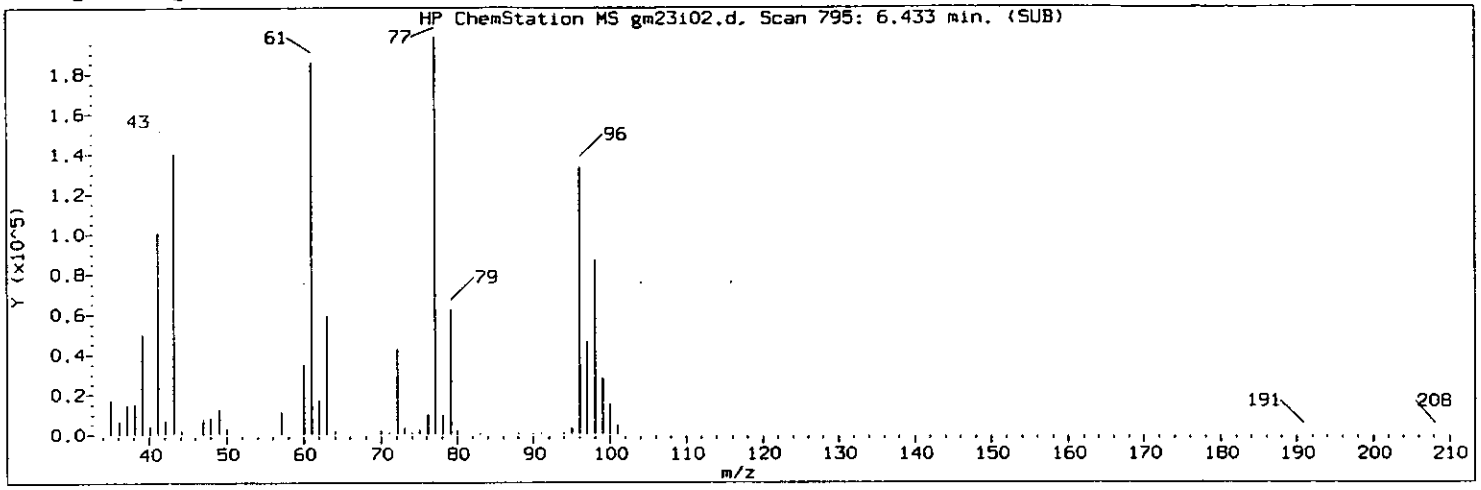
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 24
Compound Name : di-Isopropyl Ether
Scan Number : 668
Retention Time (minutes): 5.659
Quant Ion : 87
Area : 508416
Concentration (ug/L) : 10.4327
Integration start scan : 641 Integration stop scan: 715
Y at integration start : 0 Y at integration end: 0

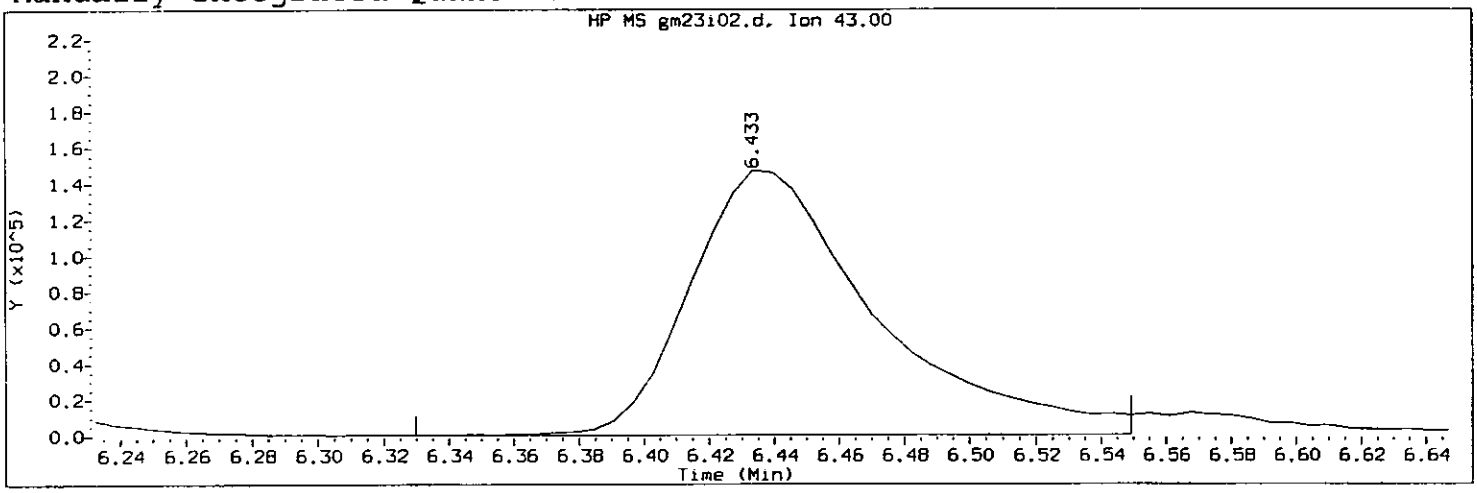
WAT11 0133

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 795
Retention Time (minutes): 6.433
Quant Ion : 43
Area (flag) : 580048 M
Concentration (ug/L) : 99.3242
Integration start scan : 777 Integration stop scan: 813
Y at integration start : 423 Y at integration end: 423

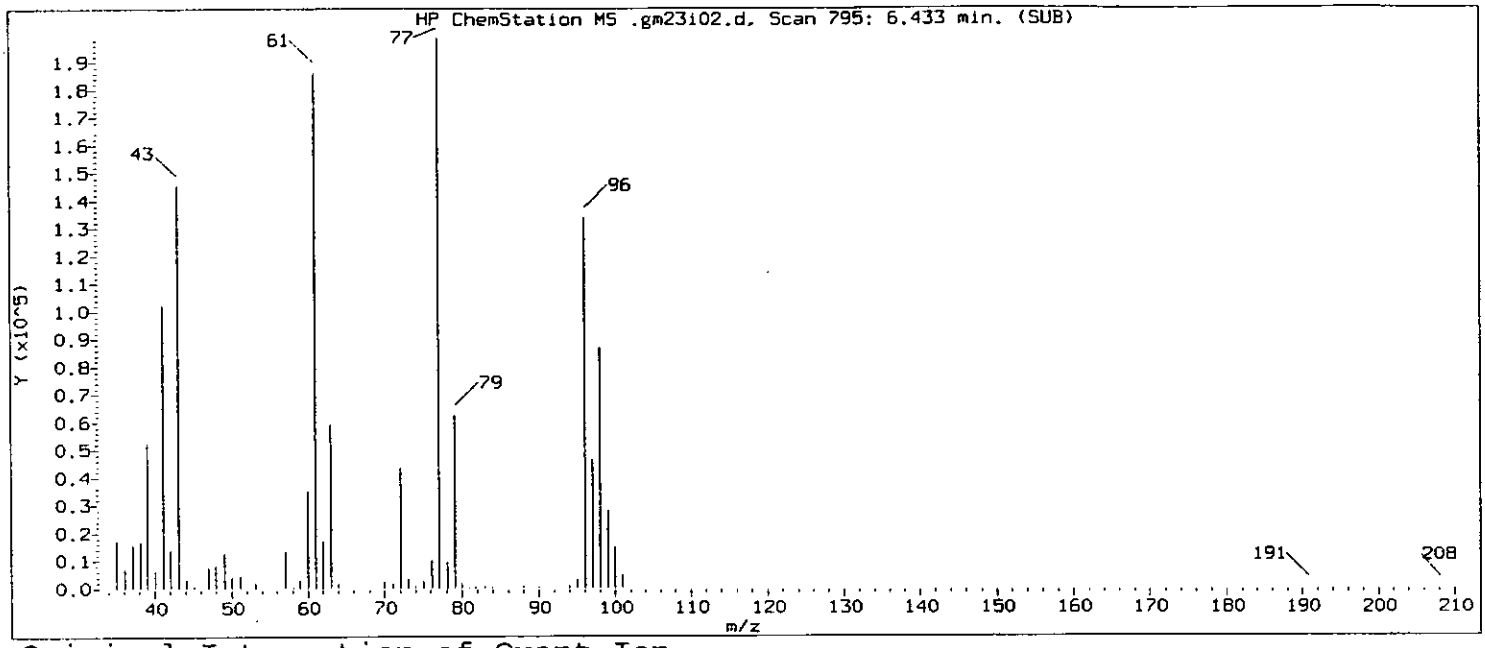
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: JML 3/23/10

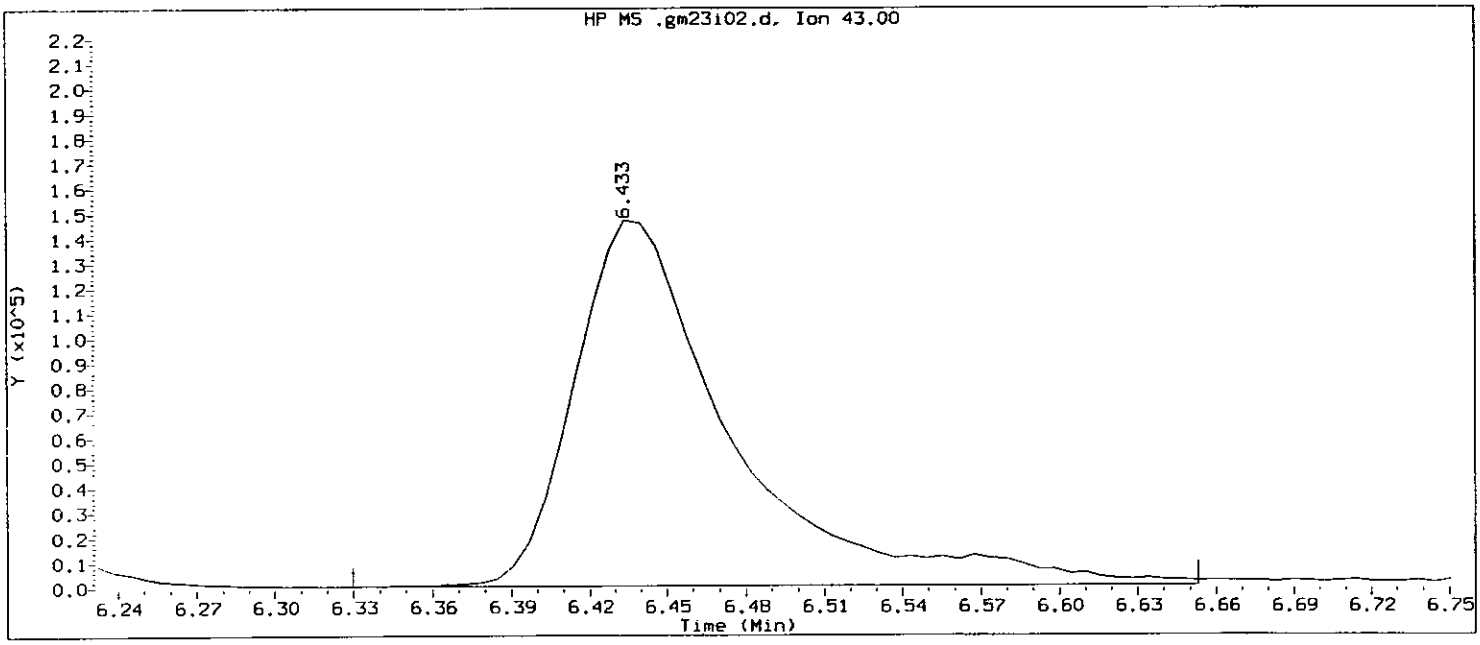
WAT11 8134

GC/MS audit/management approval: [signature] 3/24/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:54
Date, time and analyst ID of latest file update: 23-Mar-2010 13:54 Automation

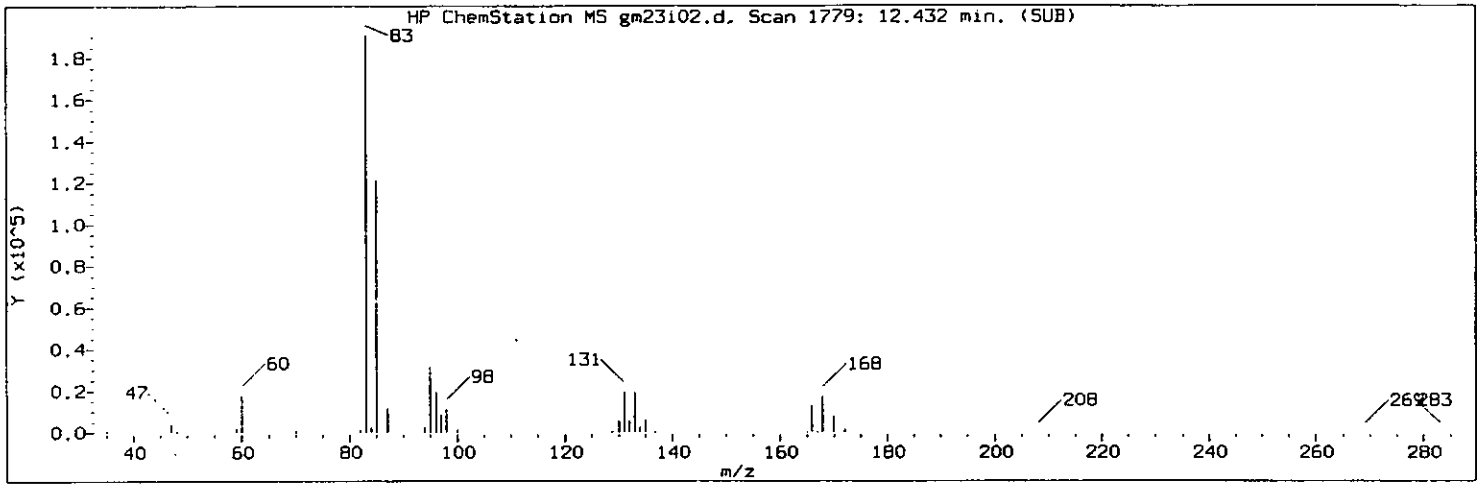
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	28
Compound Name	:	2-Butanone
Scan Number	:	795
Retention Time (minutes)	:	6.433
Quant Ion	:	43
Area	:	619256
Concentration (ug/L)	:	109.2882
Integration start scan	:	777 Integration stop scan: 830
Y at integration start	:	412 Y at integration end: 427

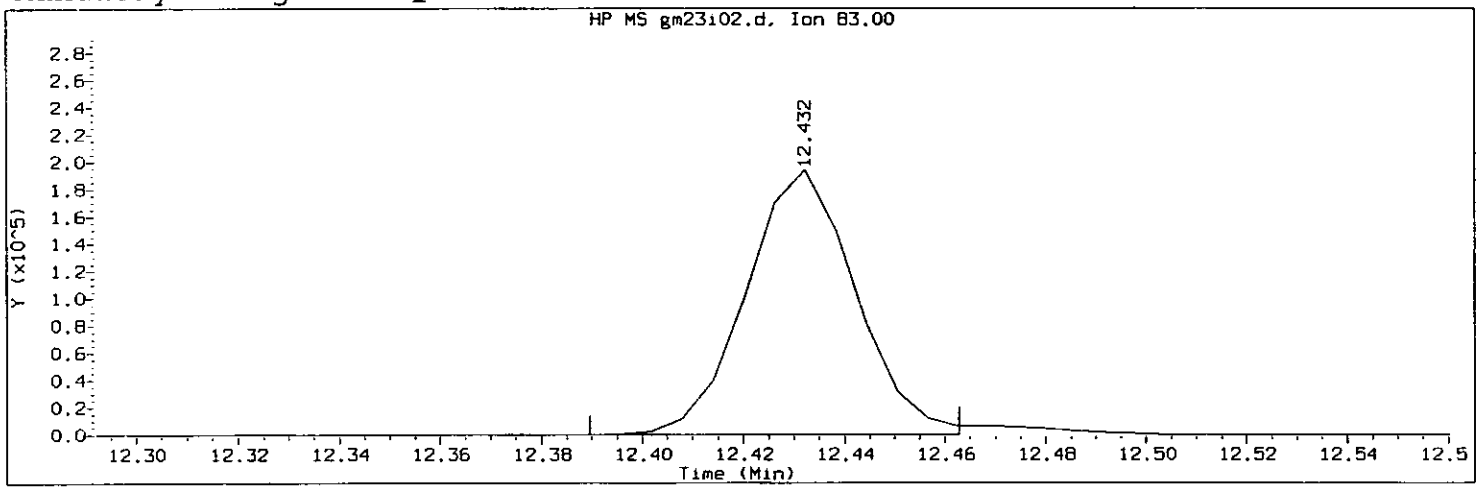
WAT11 0135

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area (flag)	:	292053 M
Concentration (ug/L)	:	9.7641
Integration start scan	:	1771 Integration stop scan: 1783
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

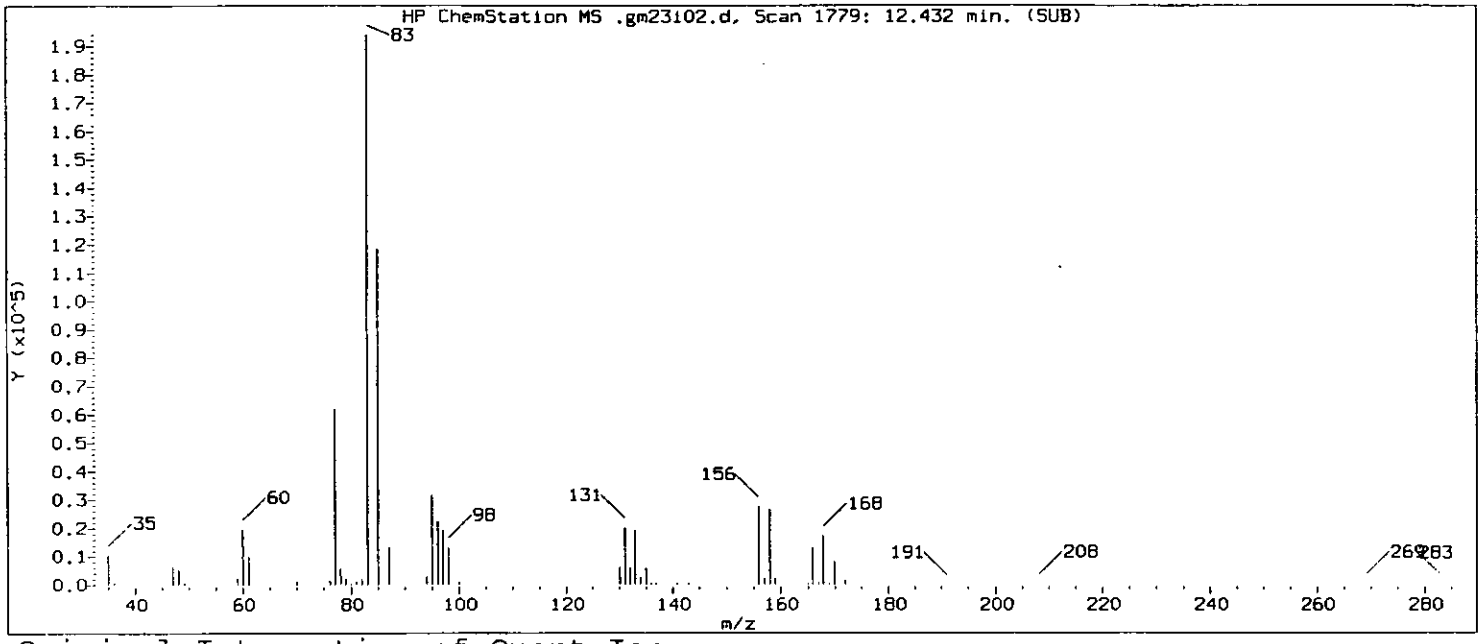
Analyst responsible for change: JM 3/23/10

WAT11 8136

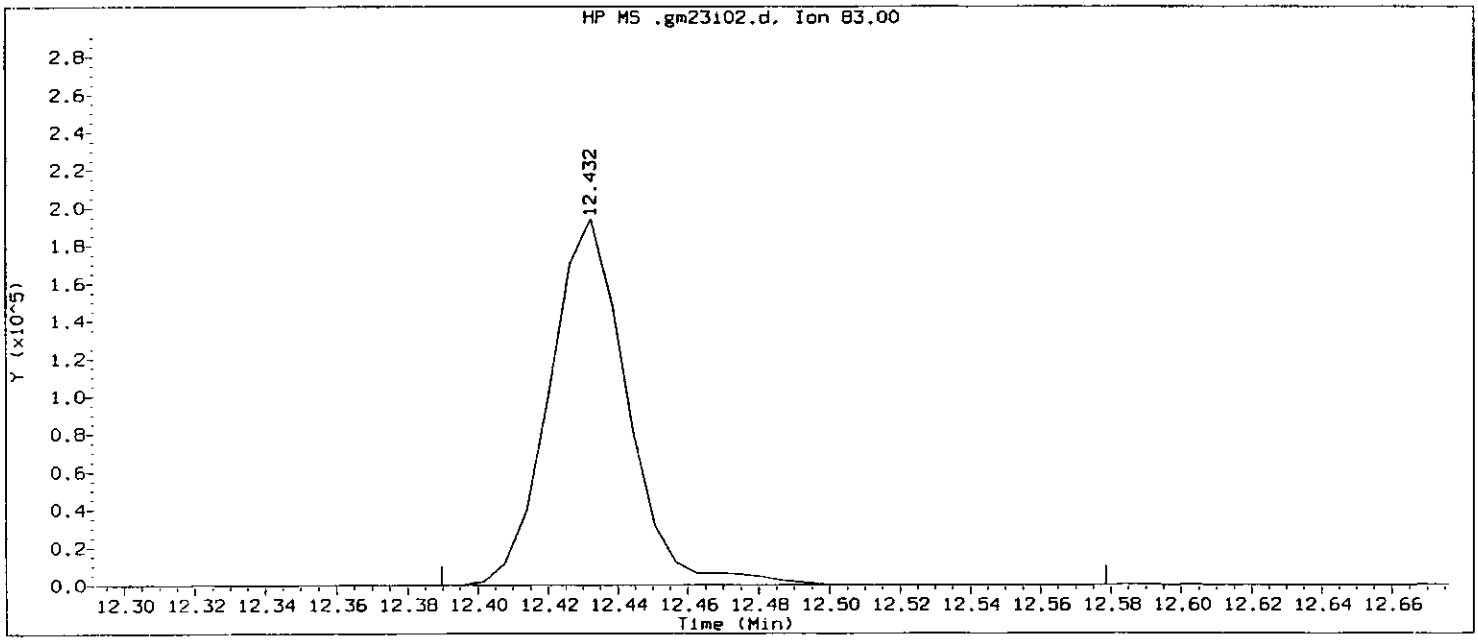
GC/MS audit/management approval: 3/24/10

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:54
Date, time and analyst ID of latest file update: 23-Mar-2010 13:54 Automation

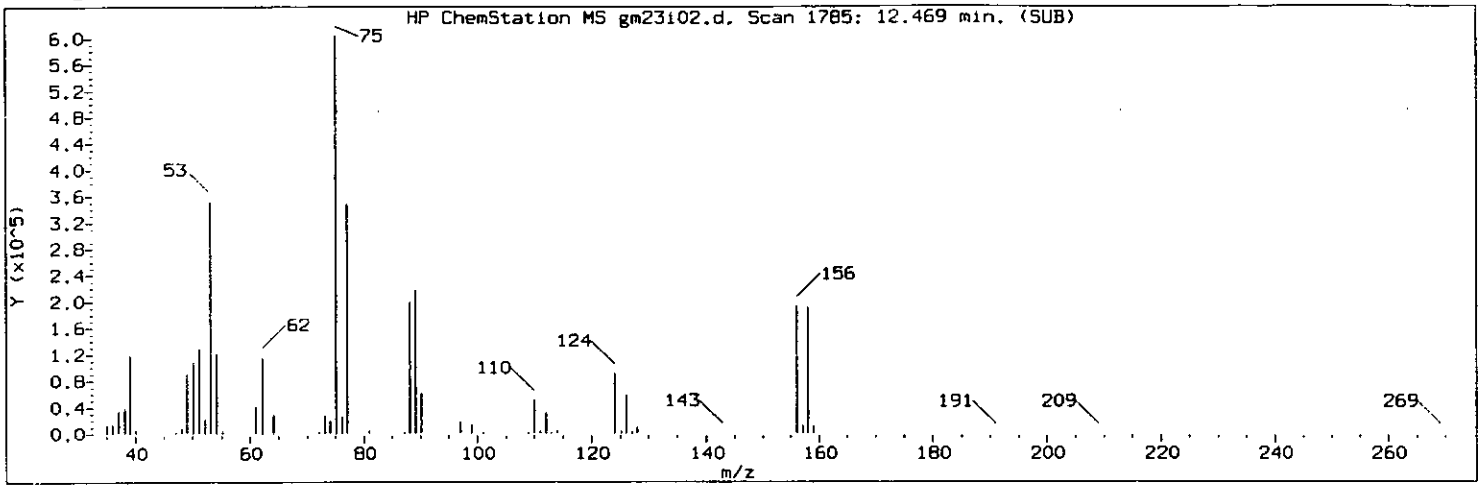
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area	:	299526
Concentration (ug/L)	:	10.2791
Integration start scan	:	1771 Integration stop scan: 1802
Y at integration start	:	0 Y at integration end: 0

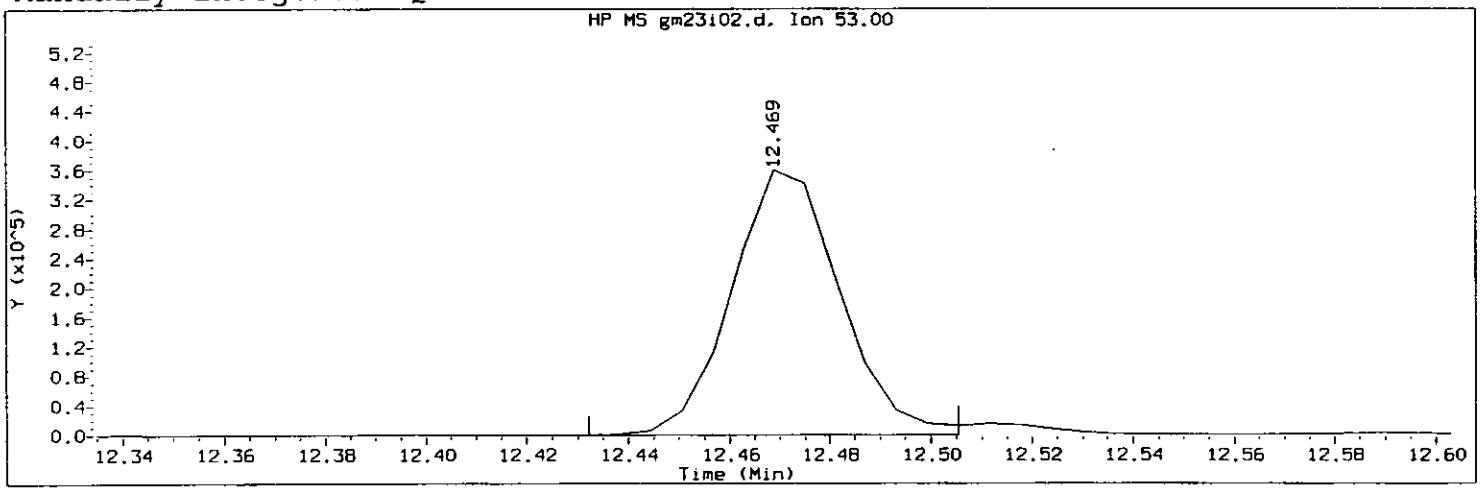
WAT11 0137

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	77
Compound Name	:	trans-1,4-Dichloro-2-Butene
Scan Number	:	1785
Retention Time (minutes)	:	12.469
Quant Ion	:	53
Area (flag)	:	542958 M
Concentration (ug/L)	:	95.6517
Integration start scan	:	1778 Integration stop scan: 1790
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

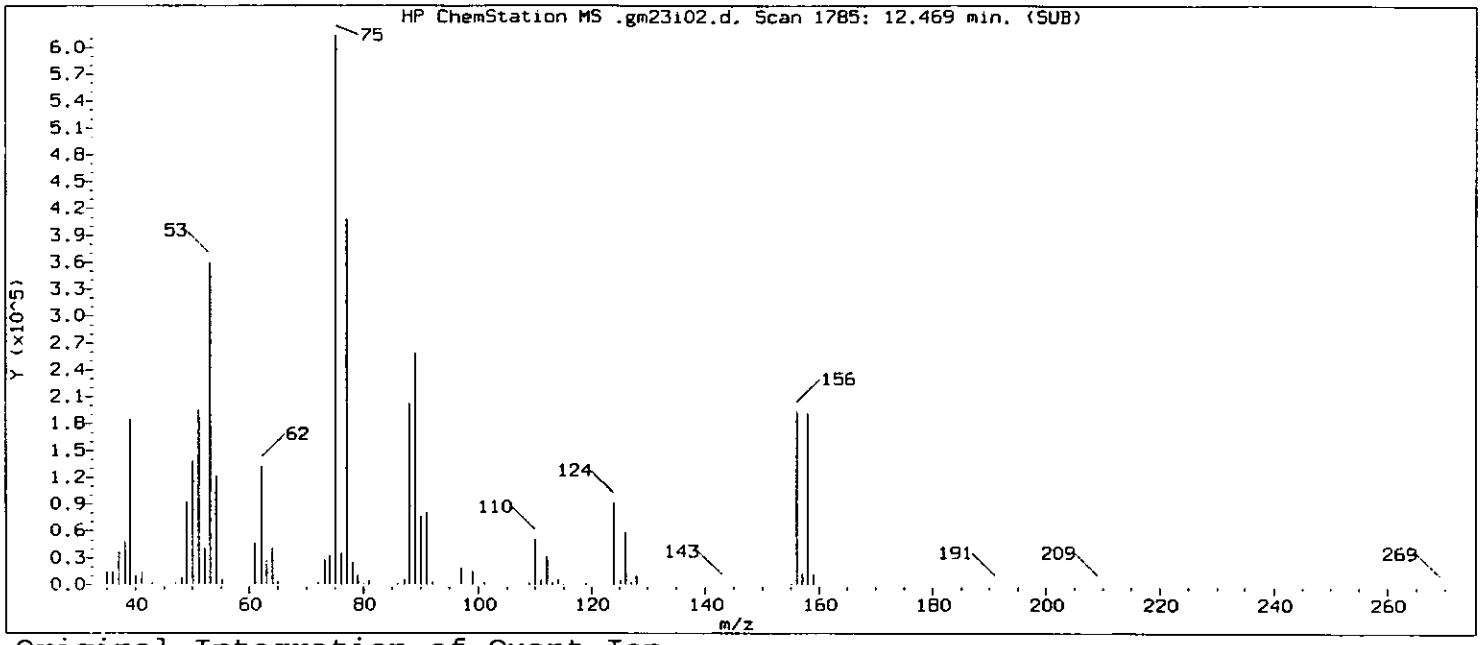
Analyst responsible for change: jm 3/23/10

GC/MS audit/management approval: 3/24/10

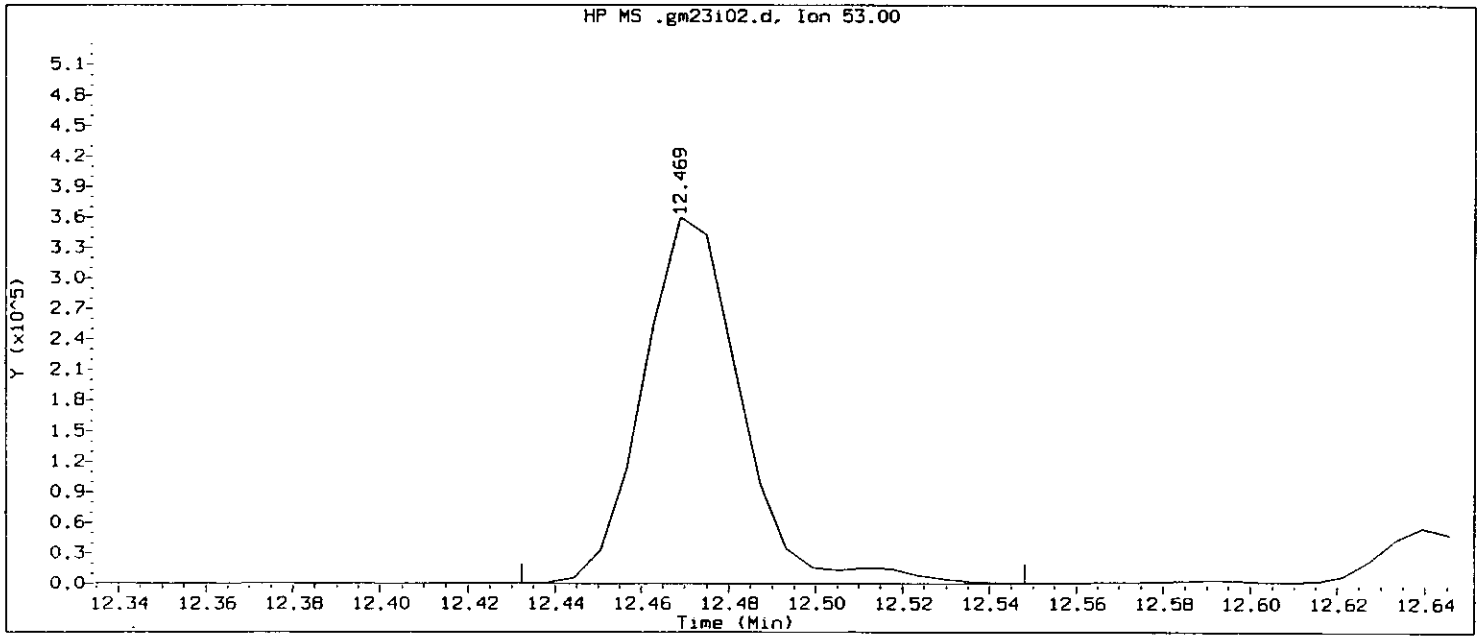
WAT11 8138

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:54
Date, time and analyst ID of latest file update: 23-Mar-2010 13:54 Automation

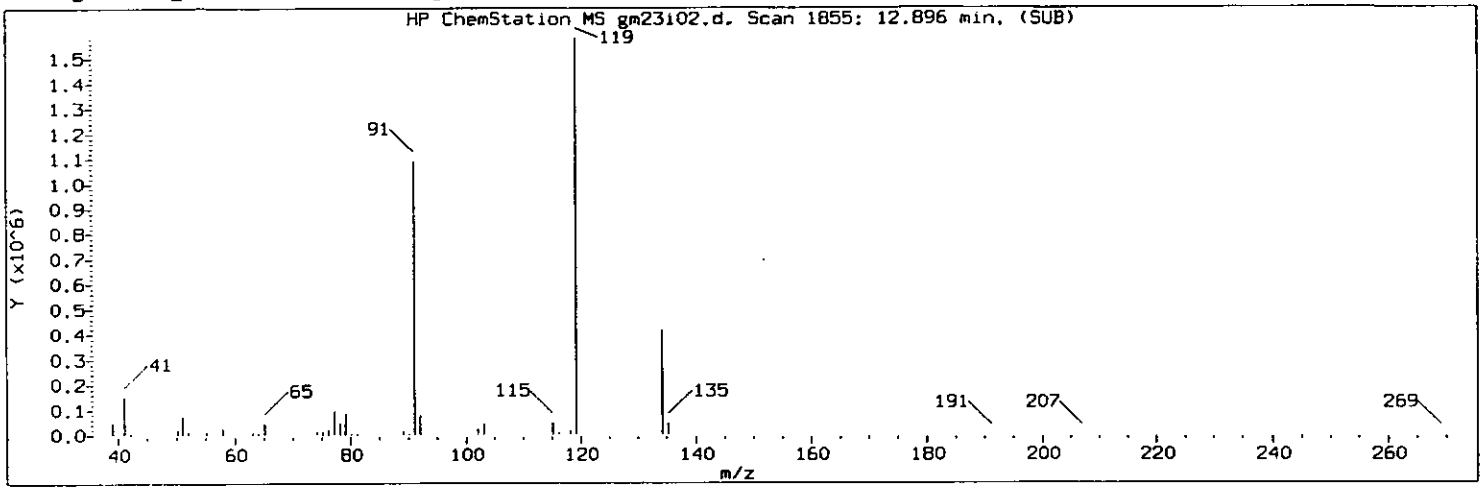
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 77
Compound Name	: trans-1,4-Dichloro-2-Butene
Scan Number	: 1785
Retention Time (minutes)	: 12.469
Quant Ion	: 53
Area	: 559551
Concentration (ug/L)	: 117.7934
Integration start scan	: 1778 Integration stop scan: 1797
Y at integration start	: 0 Y at integration end: 0

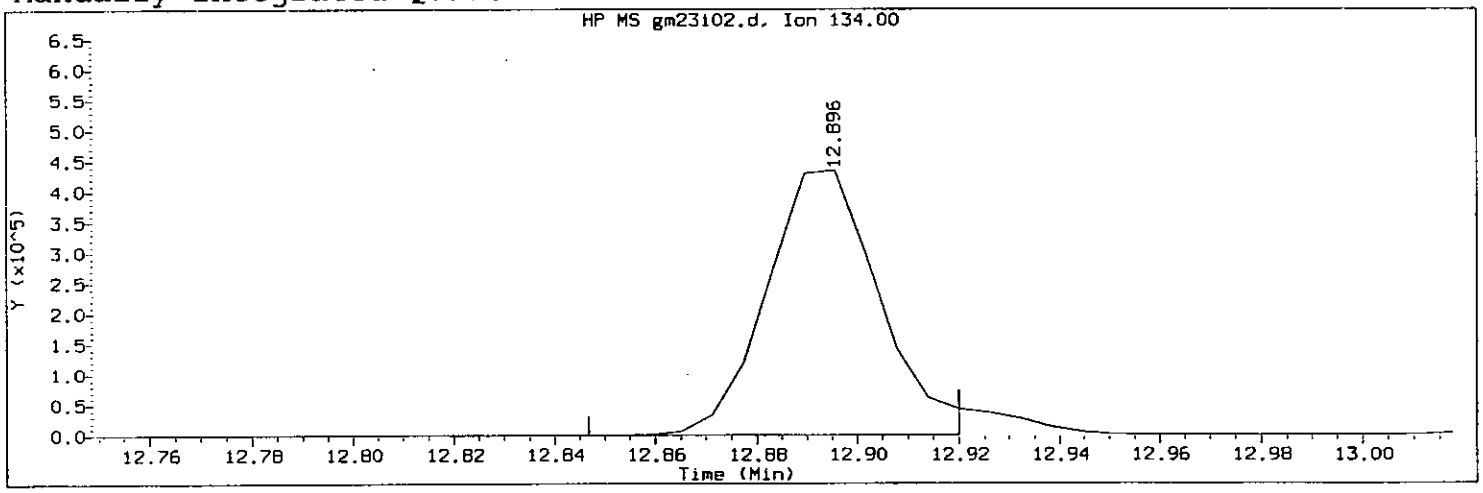
WAT11 8139

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.896
Quant Ion	:	134
Area (flag)	:	675050 M
Concentration (ug/L)	:	9.8758
Integration start scan	:	1846 Integration stop scan: 1858
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

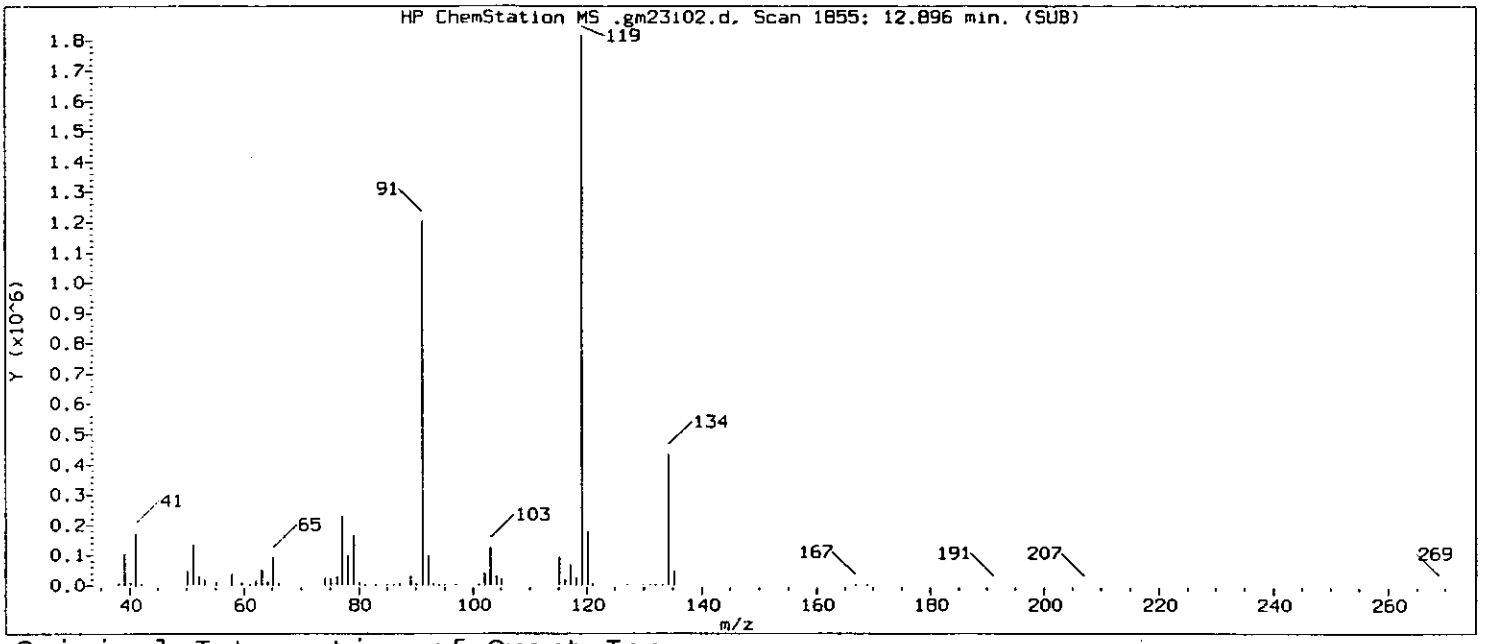
Analyst responsible for change: JML 3/23/10

WAT11 6148

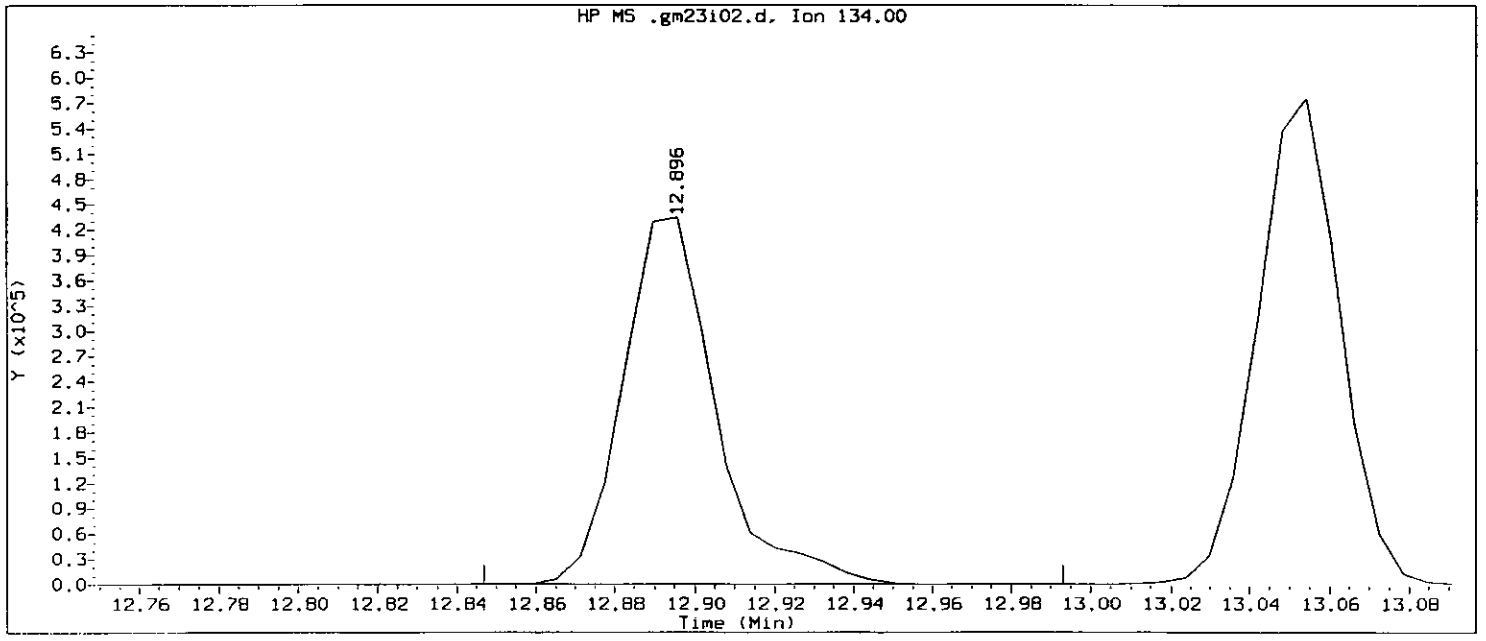
GC/MS audit/management approval: 3/24/10

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i02.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:36 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:54
Date, time and analyst ID of latest file update: 23-Mar-2010 13:54 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.896
Quant Ion	:	134
Area	:	705726
Concentration (ug/L)	:	9.9793
Integration start scan	:	1846 Integration stop scan: 1870
Y at integration start	:	0 Y at integration end: 0

WAT11 81-1

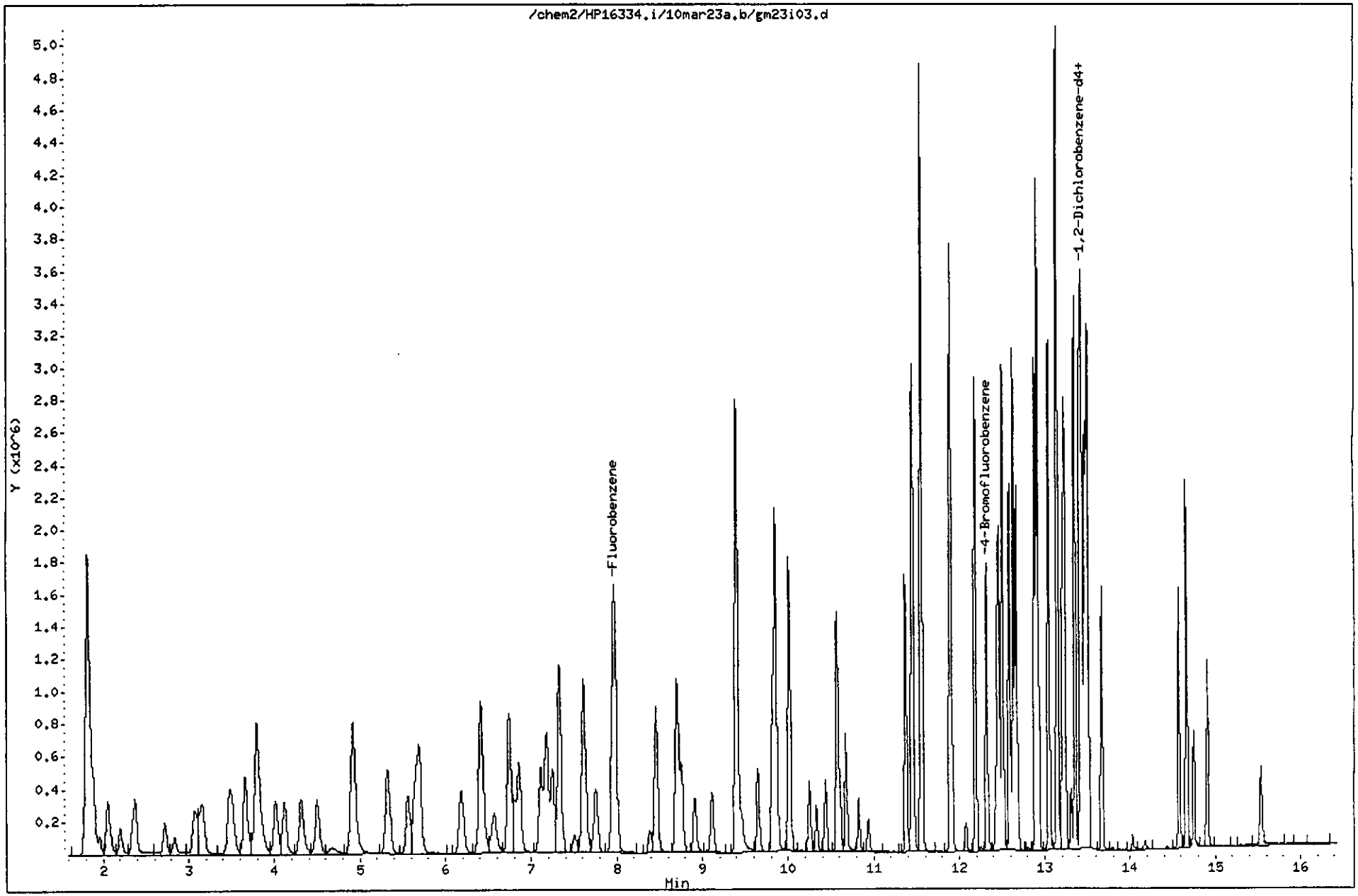
Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i02.d, generated on 03/23/2010 at 15:13

Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d
Date : 23-MAR-2010 13:58
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;1;;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JHL01693
Column diameter: 0.25

WAT11 8142



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.056	85	618796	4.740
2) Chloromethane	(1)	2.196	50	203205	4.916
3) Vinyl Chloride	(1)	2.343	62	201134	4.886
4) Bromomethane	(1)	2.721	94	174470	5.055
5) Chloroethane	(1)	2.830	64	116435	5.053
6) Dichlorofluoromethane	(1)	3.068	67	418640	5.243
7) Trichlorofluoromethane	(1)	3.160	101	649797	4.932
8) Ethyl Ether	(1)	3.464	59	132470	4.863
9) Acrolein	(1)	3.653	56	820802	246.476
10) 1,1-Dichloroethene	(1)	3.788	96	322897	4.944
11) Freon 113	(1)	3.812	101	369820	4.947
12) Acetone	(1)	3.867	58	62186	50.146
13) Methyl Iodide	(1)	4.013	142	634644	4.906
14) Carbon Disulfide	(1)	4.117	76	786050	4.793
15) Allyl Chloride	(1)	4.306	39	259186	4.669
17) Methylene Chloride	(1)	4.501	84	303947	4.964
18) t-Butyl Alcohol	(1)	4.678	59	115096	98.324
19) Acrylonitrile	(1)	4.903	53	344957	59.918
20) trans-1,2-Dichloroethene	(1)	4.922	96	376984	4.978
21) Methyl Tertiary Butyl Ether	(1)	4.915	73	441269	4.886
22) 1,1-Dichloroethane	(1)	5.568	63	604411	4.882
24) di-Isopropyl Ether	(1)	5.653	87	249142M	4.900
25) Ethyl t-Butyl Ether	(1)	6.183	59	622577	4.861
26) cis-1,2-Dichloroethene	(1)	6.409	96	366174	4.956
27) 2,2-Dichloropropane	(1)	6.409	77	506822	4.768
28) 2-Butanone	(1)	6.440	43	283661M	47.807
29) Propionitrile	(1)	6.543	54	212470	96.852
30) Methyl Acrylate	(1)	6.574	55	458756	24.282
31) Methacrylonitrile	(1)	6.738	67	415110	49.429
32) Bromochloromethane	(1)	6.750	128	116268	4.805
33) Tetrahydrofuran	(1)	6.811	71	136913	69.333
34) Chloroform	(1)	6.860	83	614610	4.905
35) 1,1,1-Trichloroethane	(1)	7.110	97	578530	4.821
36) 1-Chlorobutane	(1)	7.250	49	26172	4.751

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
37) Carbon Tetrachloride	(1)	7.336	117	508334	4.733
38) 1,1-Dichloropropene	(1)	7.330	75	502499	4.890
39) Benzene	(1)	7.610	78	1409043	4.949
40) 1,2-Dichloroethane	(1)	7.641	62	273334	4.788
41) t-Amyl Methyl Ether	(1)	7.756	73	481727	4.838
42)*Fluorobenzene	(1)	7.982	96	1868098	5.000
43) Trichloroethene	(1)	8.464	95	410900	4.881
44) 1,2-Dichloropropane	(1)	8.756	63	292069	4.920
45) Methyl Methacrylate	(1)	8.909	69	76146	4.744
46) Dibromomethane	(1)	8.915	93	111727	4.830
47) Bromodichloromethane	(1)	9.116	83	325096	4.729
48) 2-Nitropropane	(1)	9.402	46	100115	498.609
49) Chloroacetonitrile	(1)	9.457	75	197153	236.018
50) cis-1,3-Dichloropropene	(1)	9.652	75	374753	4.749
51) 4-Methyl-2-Pentanone	(1)	9.823	58	337192	49.762
52) 1,1-Dichloropropanone	(1)	9.860	83	186957	481.658
53) Toluene	(1)	10.018	92	906168	4.932
55) trans-1,3-Dichloropropene	(1)	10.256	75	263551	4.640
56) Ethyl Methacrylate	(1)	10.335	69	173535	4.786
57) 1,1,2-Trichloroethane	(1)	10.439	83	129927	4.883
58) Tetrachloroethene	(1)	10.579	166	471144	4.909
59) 1,3-Dichloropropane	(1)	10.609	76	265966	4.847
60) 2-Hexanone	(1)	10.676	58	299825	48.817
61) Dibromochloromethane	(1)	10.829	129	177450	4.628
62) 1,2-Dibromoethane	(1)	10.939	107	143344	4.811
64) Chlorobenzene	(1)	11.378	112	963935	4.913
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	301407	4.784
66) Ethylbenzene	(1)	11.469	106	574779	4.900
67) m+p-Xylene	(1)	11.567	106	1399215	10.046
68) o-Xylene	(1)	11.902	106	655317	5.020
69) Styrene	(1)	11.914	104	963396	4.966
71) Bromoform	(1)	12.085	173	83031	4.505
72) Isopropylbenzene	(1)	12.194	120	479150	4.940
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	147468M	4.829

M = Compound was manually integrated.

* = Compound is an internal standard.

WAT11 8144

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

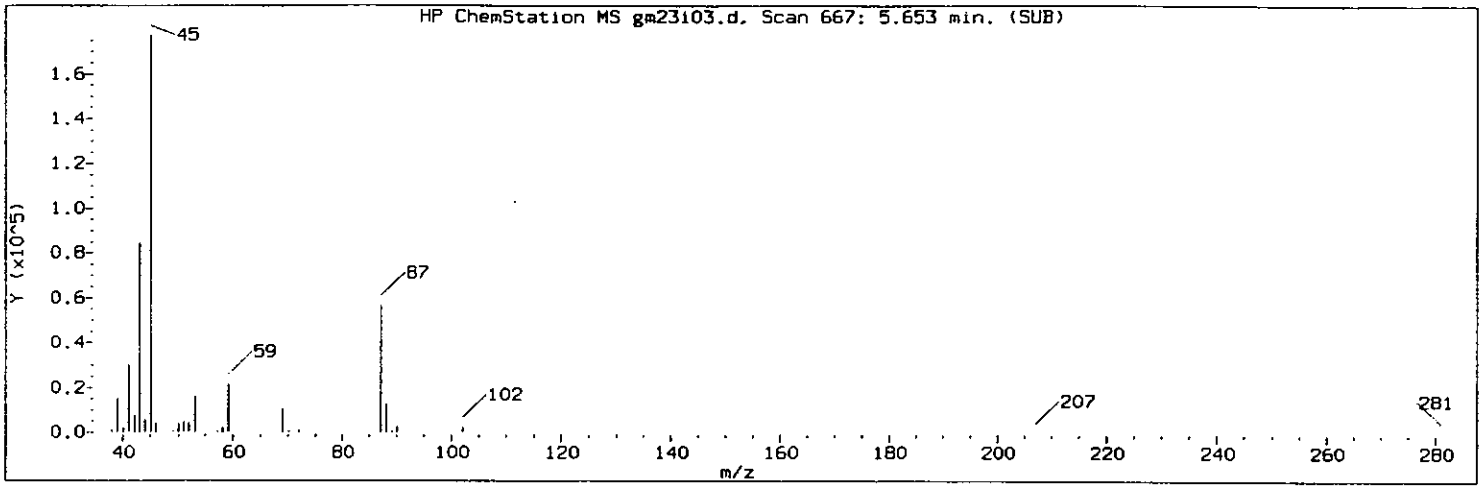
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
75) Bromobenzene	(1)	12.457	156	356937	4.926
76) 1,2,3-Trichloropropane	(1)	12.475	110	43149	4.894
77) trans-1,4-Dichloro-2-Butene	(1)	12.469	53	254646M	45.255
78) n-Propylbenzene	(1)	12.518	120	522412	4.908
79) 2-Chlorotoluene	(1)	12.597	126	424645	4.874
80) 1,3,5-Trimethylbenzene	(1)	12.640	105	1609443	4.888
81) 4-Chlorotoluene	(1)	12.676	126	421868	4.879
82) tert-Butylbenzene	(1)	12.896	134	343660M	4.894
83) Pentachloroethane	(1)	12.926	167	199432	4.606
84) 1,2,4-Trimethylbenzene	(1)	12.926	105	1587030	4.932
85) sec-Butylbenzene	(1)	13.054	134	422387	4.892
86) p-Isopropyltoluene	(1)	13.146	119	1796289	4.973
87) 1,3-Dichlorobenzene	(1)	13.152	146	763480	4.978
88) 1,4-Dichlorobenzene	(1)	13.219	146	756653	4.904
89) n-Butylbenzene	(1)	13.438	92	899614	4.993
91) 1,2-Dichlorobenzene	(1)	13.487	146	596310	4.911
92) Hexachloroethane	(1)	13.670	201	243112	4.507
93) 1,2-Dibromo-3-Chloropropane	(1)	14.030	157	23713	4.551
94) Nitrobenzene	(1)	14.176	77	31908	72.260
95) 1,2,4-Trichlorobenzene	(1)	14.578	180	481227	4.739
96) Hexachlorobutadiene	(1)	14.664	225	402516	4.764
97) Naphthalene	(1)	14.749	128	532200	4.643
98) 1,2,3-Trichlorobenzene	(1)	14.907	180	354161	4.728
73)$4-Bromofluorobenzene	(1)	12.329	174	485063	4.891
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	475589	4.974

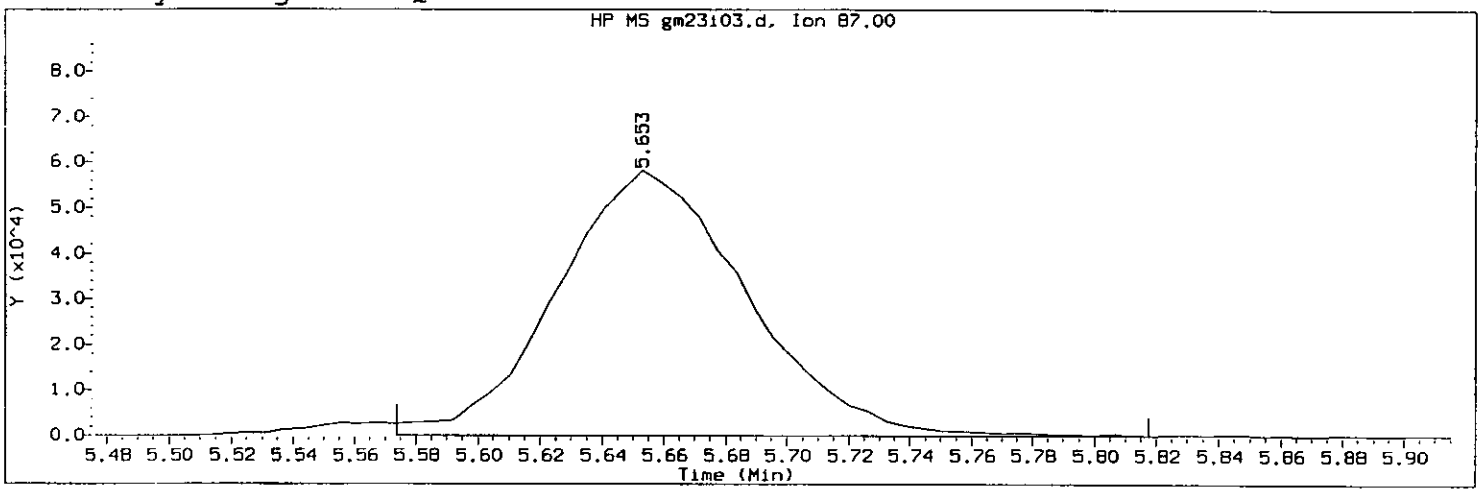
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 24
Compound Name : di-Isopropyl Ether
Scan Number : 667
Retention Time (minutes): 5.653
Quant Ion : 87
Area (flag) : 249142 M
Concentration (ug/L) : 4.8998
Integration start scan : 653 Integration stop scan: 693
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

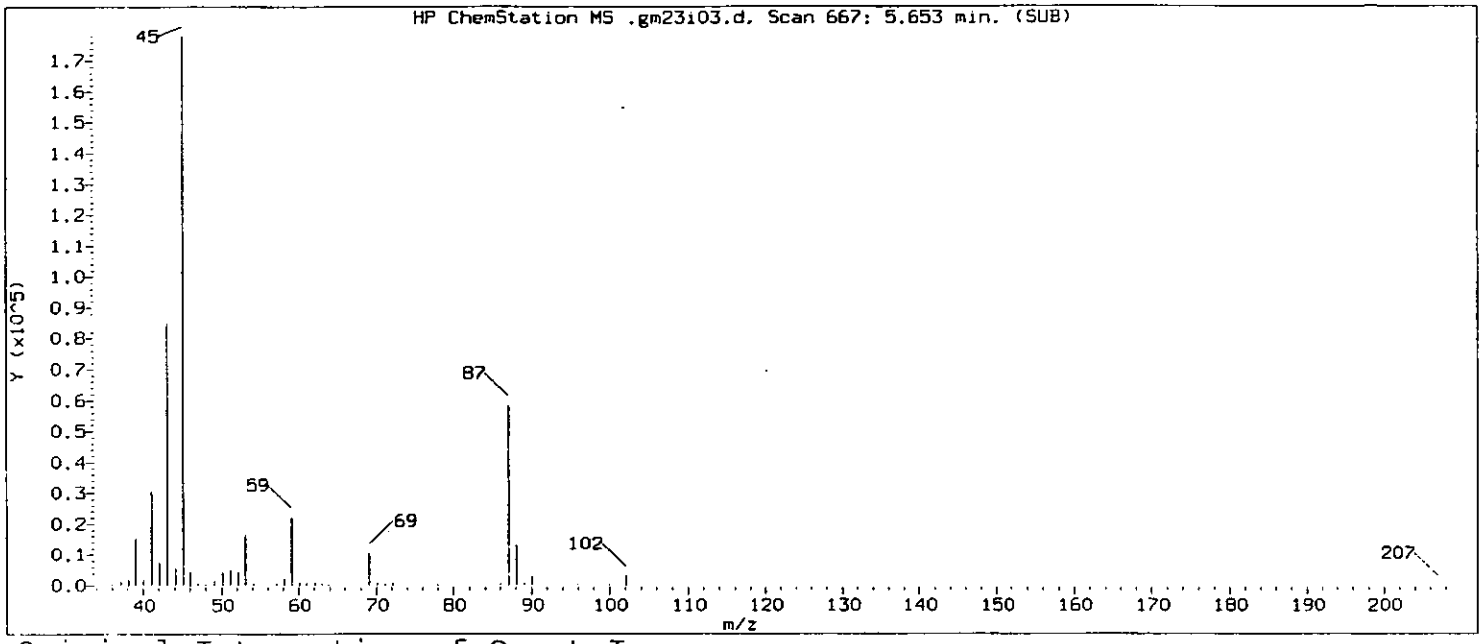
Analyst responsible for change: JML 3/23/10

WAT11 8146

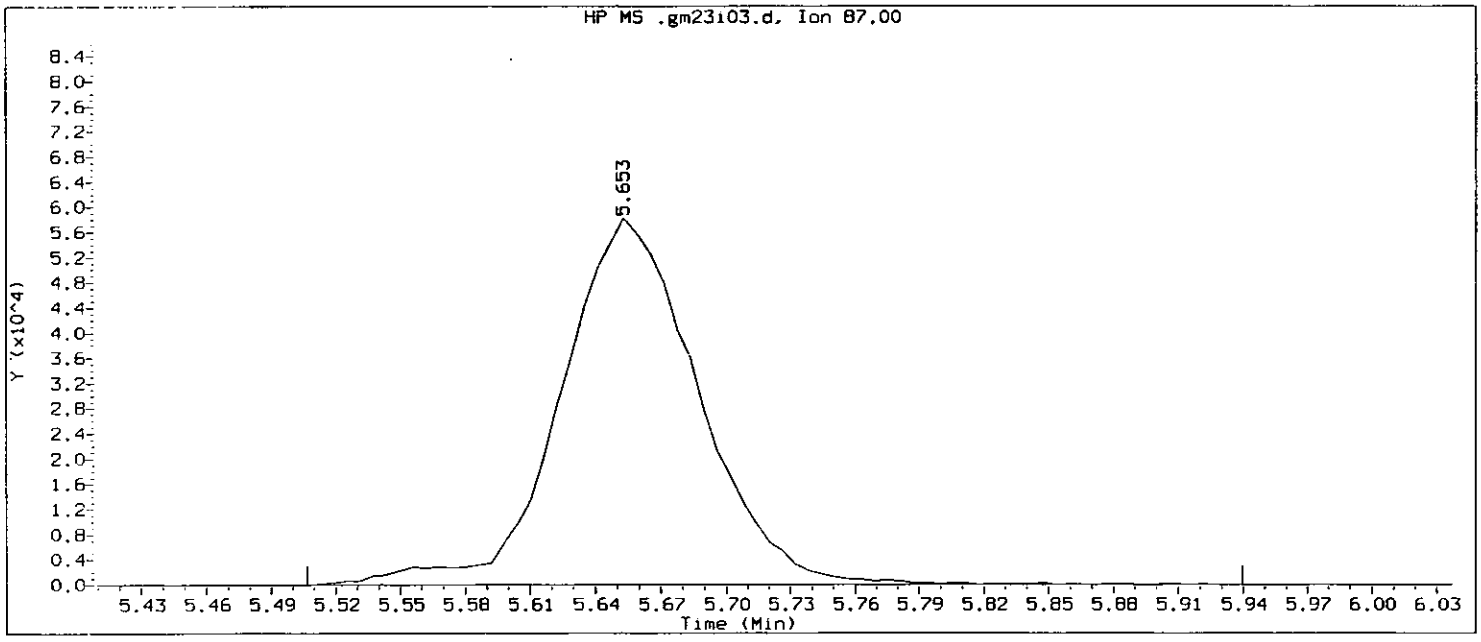
GC/MS audit/management approval: 3/24/10

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:15
Date, time and analyst ID of latest file update: 23-Mar-2010 14:15 Automation

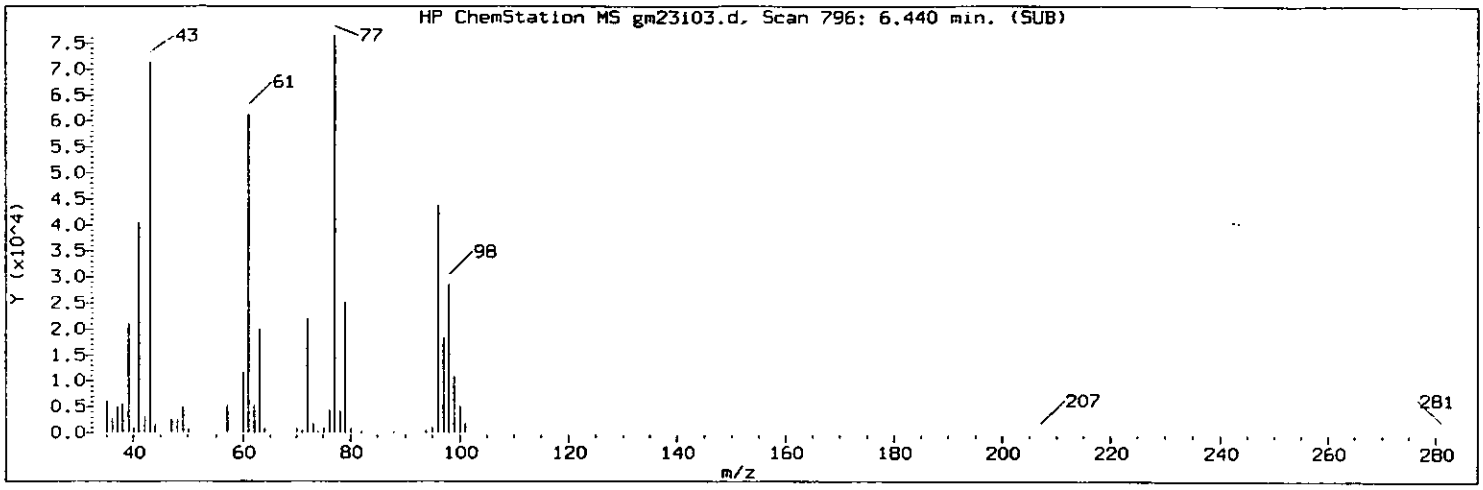
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	:	24
Compound Name	:	di-Isopropyl Ether
Scan Number	:	667
Retention Time (minutes)	:	5.653
Quant Ion	:	87
Area	:	255510
Concentration (ug/L)	:	5.0445
Integration start scan	:	642 Integration stop scan: 713
Y at integration start	:	0 Y at integration end: 0

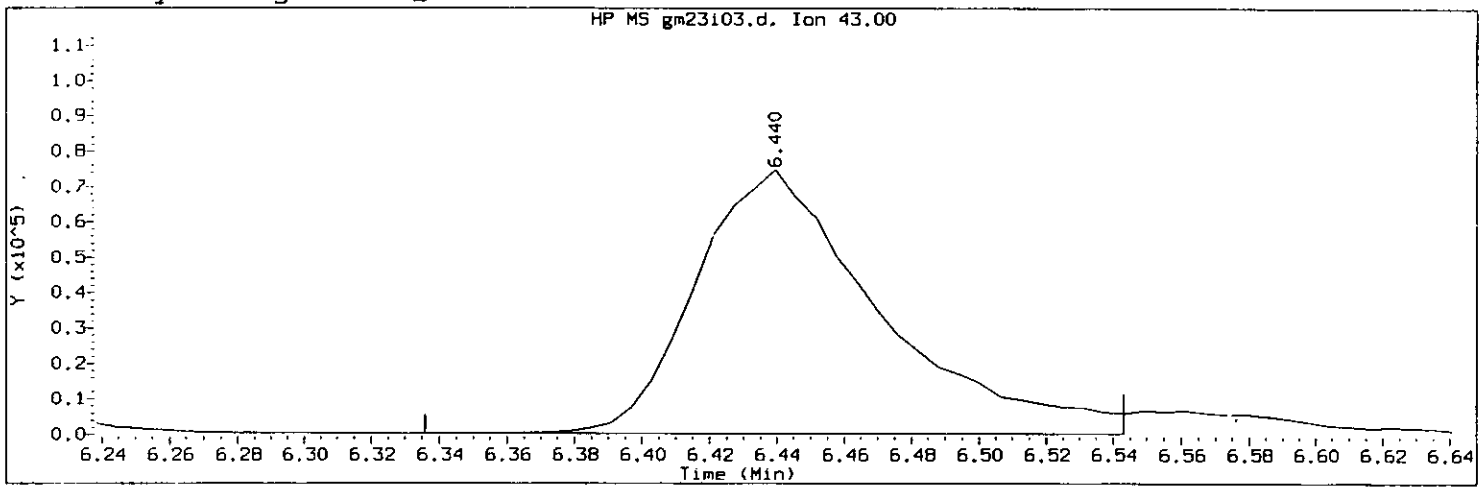
WAT11 8147

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 796
Retention Time (minutes): 6.440
Quant Ion : 43
Area (flag) : 283661 M
Concentration (ug/L) : 47.8065
Integration start scan : 778 Integration stop scan: 812
Y at integration start : 279 Y at integration end: 279

Reason for manual integration (circle one): missed peak improper integration

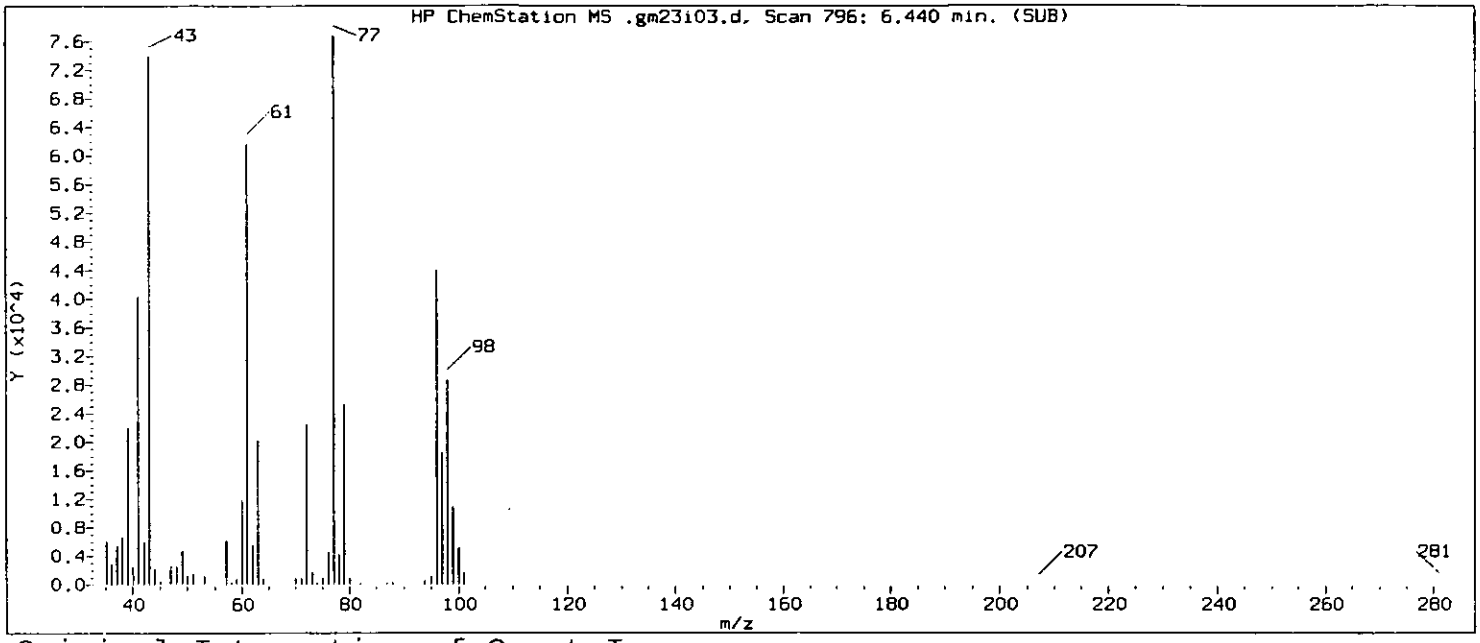
Analyst responsible for change: jml 3/23/10

GC/MS audit/management approval: 3/24/10

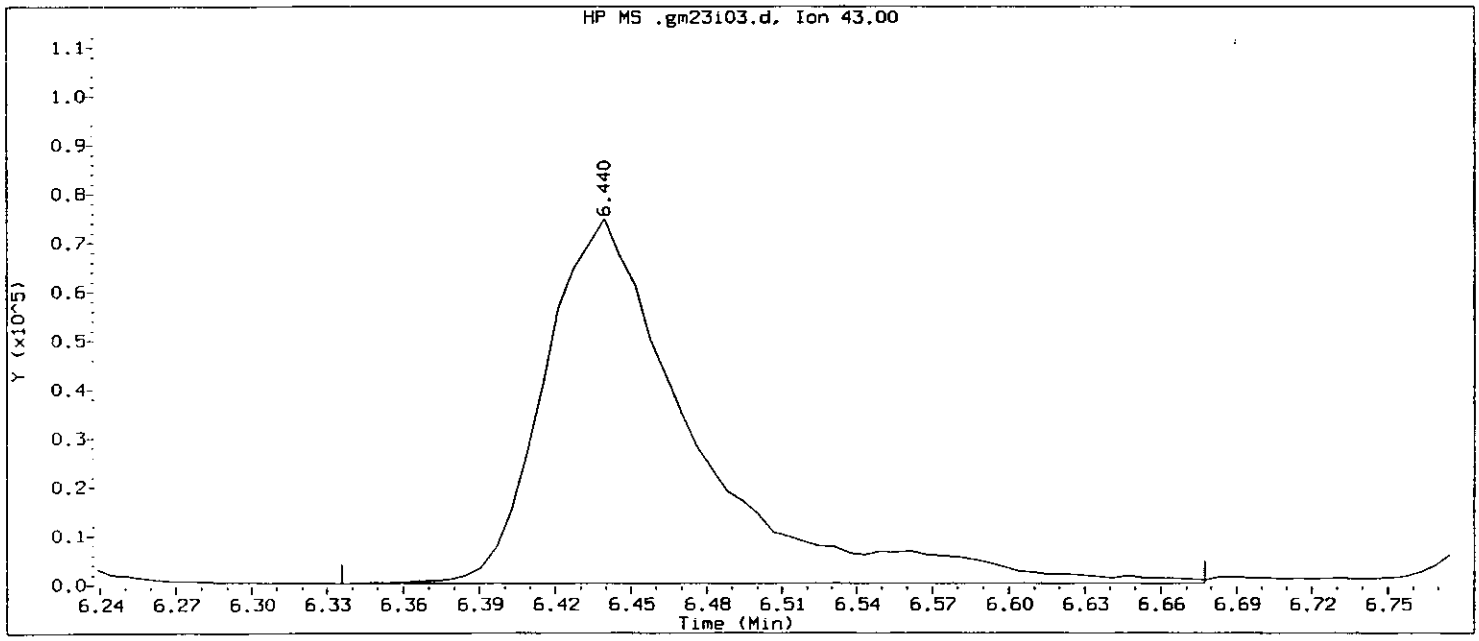
WAT11 0148

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:15
Date, time and analyst ID of latest file update: 23-Mar-2010 14:15 Automation

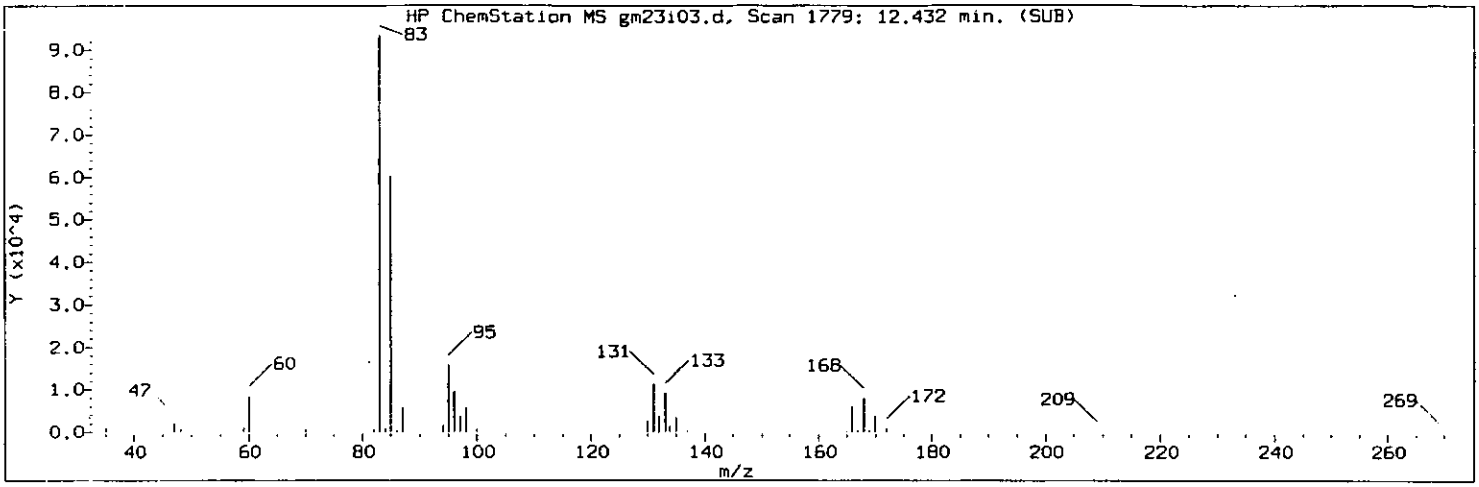
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	:	28
Compound Name	:	2-Butanone
Scan Number	:	796
Retention Time (minutes)	:	6.440
Quant Ion	:	43
Area	:	308761
Concentration (ug/L)	:	51.7207
Integration start scan	:	778 Integration stop scan: 834
Y at integration start	:	245 Y at integration end: 260

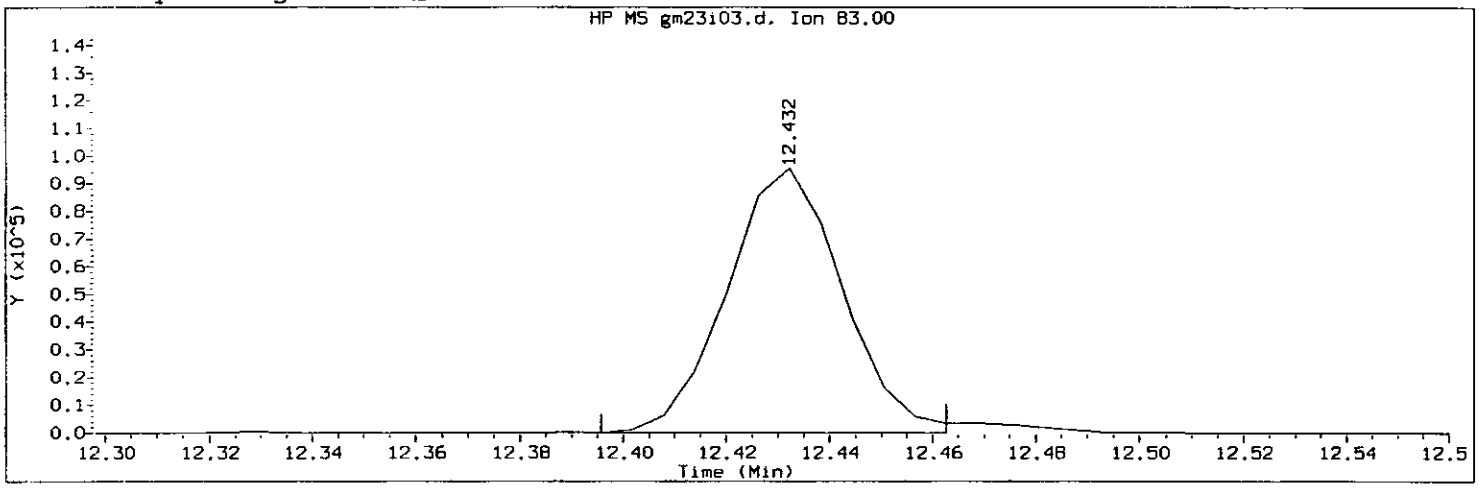
WAT11 0149

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 74
Compound Name	: 1,1,2,2-Tetrachloroethane
Scan Number	: 1779
Retention Time (minutes)	: 12.432
Quant Ion	: 83
Area (flag)	: 147468 M
Concentration (ug/L)	: 4.8294
Integration start scan	: 1772 Integration stop scan: 1783
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

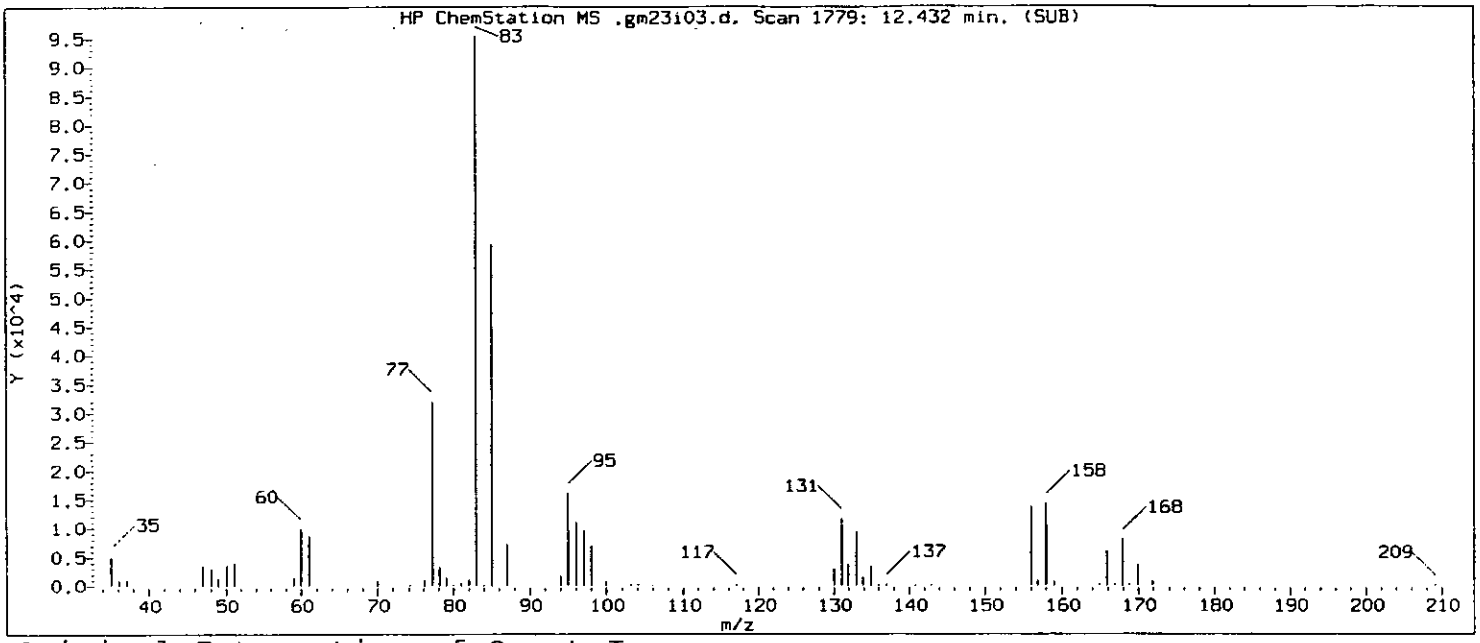
Analyst responsible for change: jml 3/23/10

GC/MS audit/management approval: [signature] 3/24/10

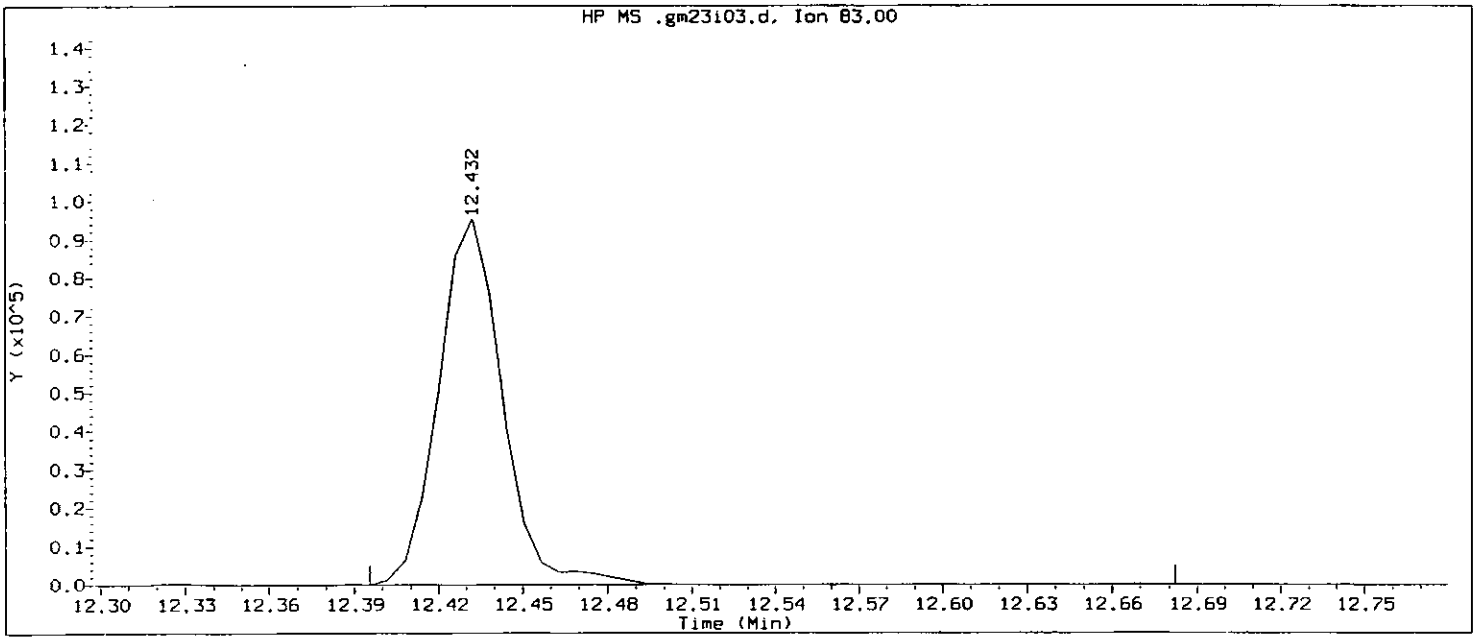
WAT11 8150

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:15
Date, time and analyst ID of latest file update: 23-Mar-2010 14:15 Automation

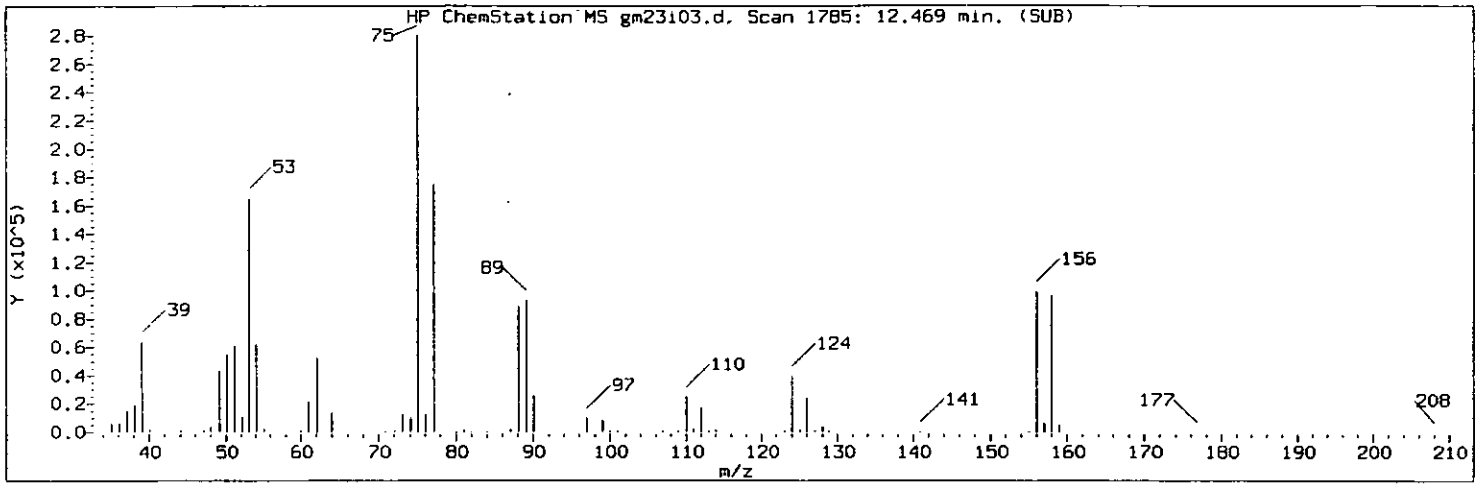
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area	:	151335
Concentration (ug/L)	:	4.9836
Integration start scan	:	1772 Integration stop scan: 1819
Y at integration start	:	0 Y at integration end: 0

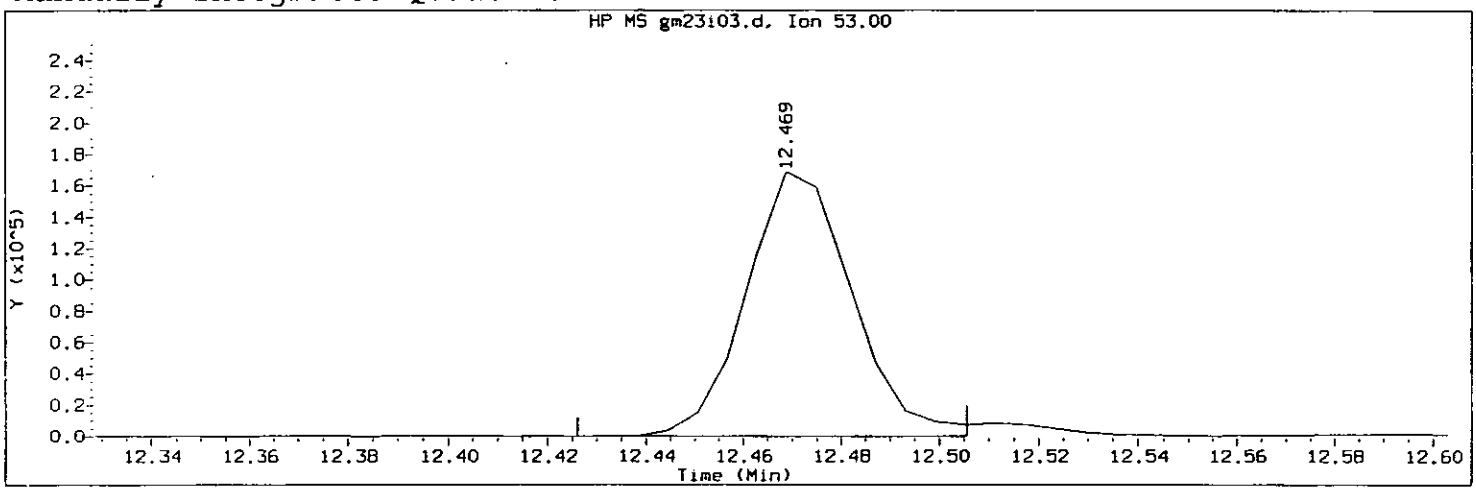
WAT11 6151

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	:	77
Compound Name	:	trans-1,4-Dichloro-2-Butene
Scan Number	:	1785
Retention Time (minutes)	:	12.469
Quant Ion	:	53
Area (flag)	:	254646 M
Concentration (ug/L)	:	45.2552
Integration start scan	:	1777 Integration stop scan: 1790
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

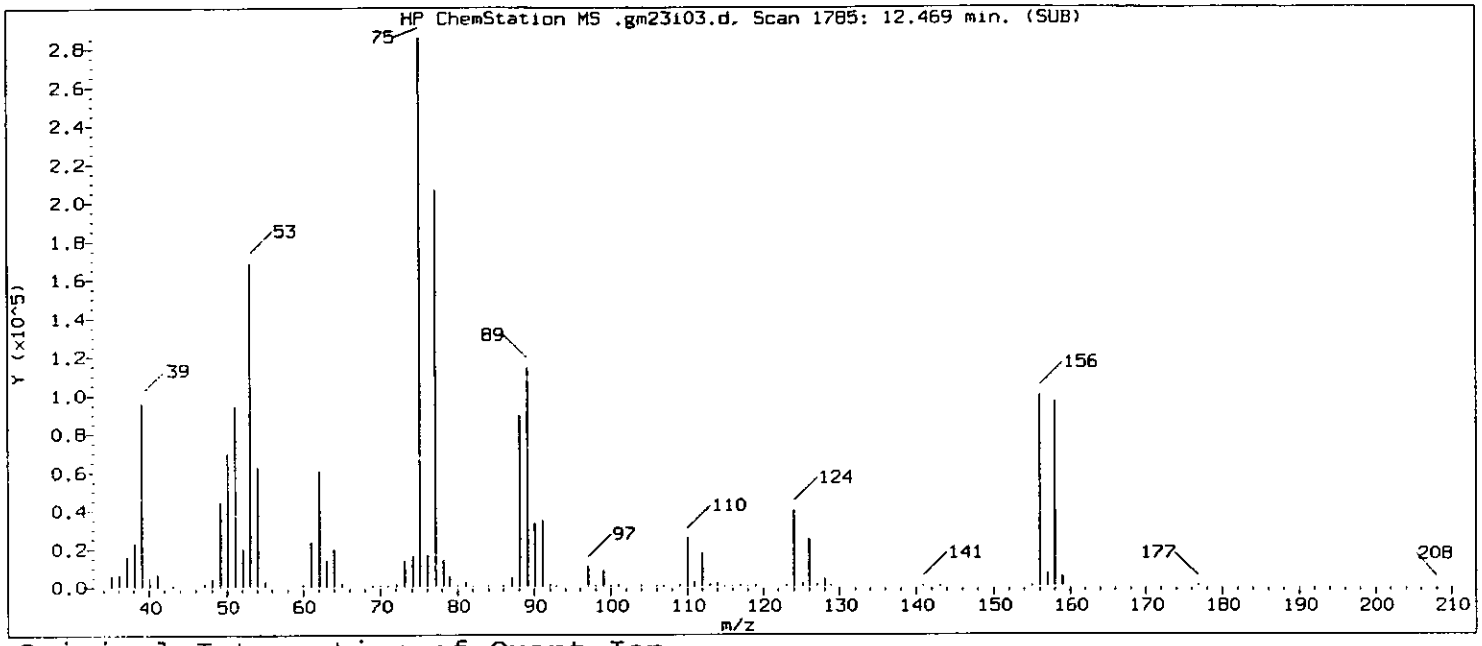
Analyst responsible for change: jm 3/23/10

GC/MS audit/management approval: [signature] 3/24/10

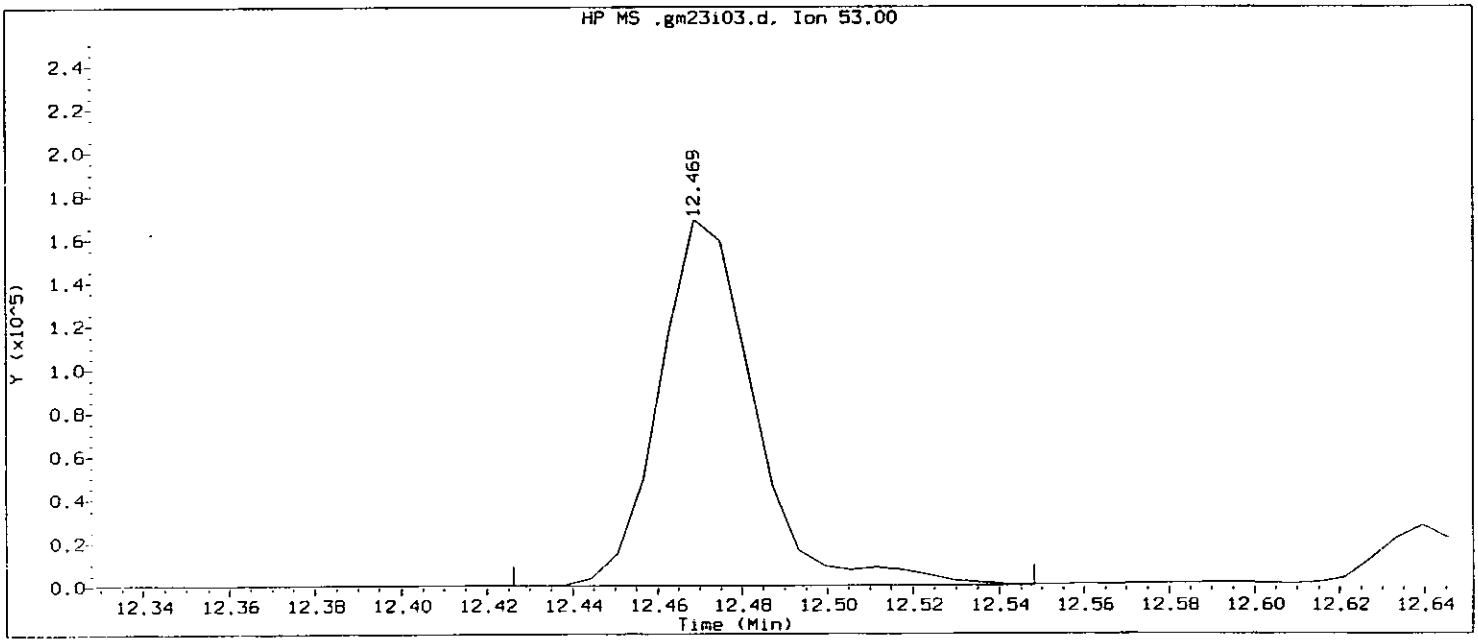
WAT11 0152

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:15
Date, time and analyst ID of latest file update: 23-Mar-2010 14:15 Automation

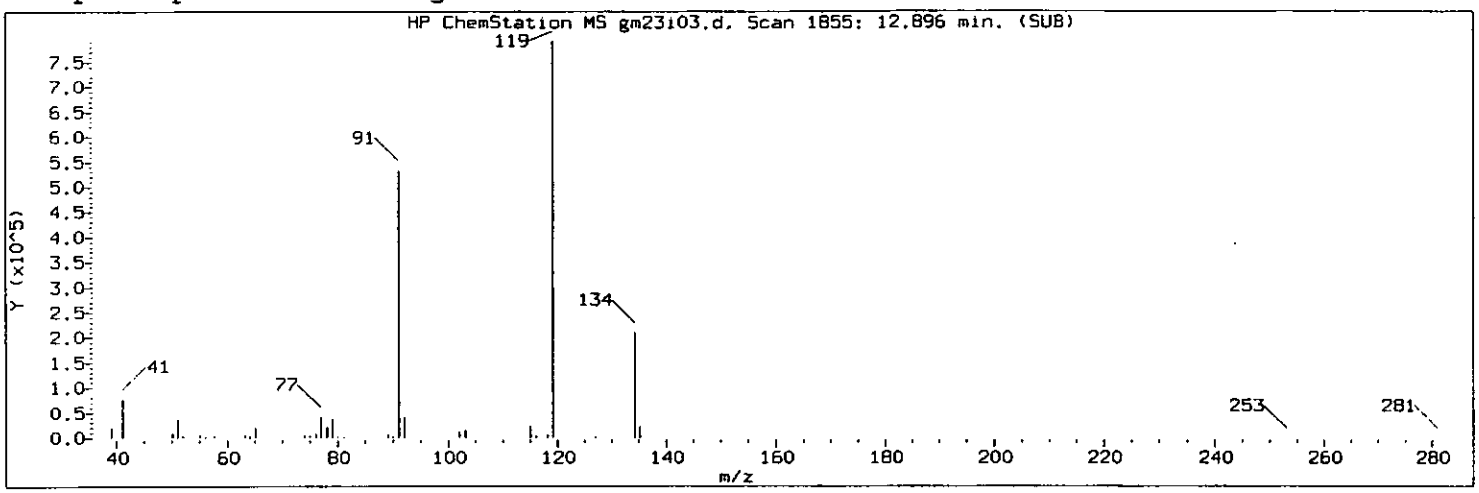
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	:	77
Compound Name	:	trans-1,4-Dichloro-2-Butene
Scan Number	:	1785
Retention Time (minutes)	:	12.469
Quant Ion	:	53
Area	:	263989
Concentration (ug/L)	:	51.5830
Integration start scan	:	1777 Integration stop scan: 1797
Y at integration start	:	0 Y at integration end: 0

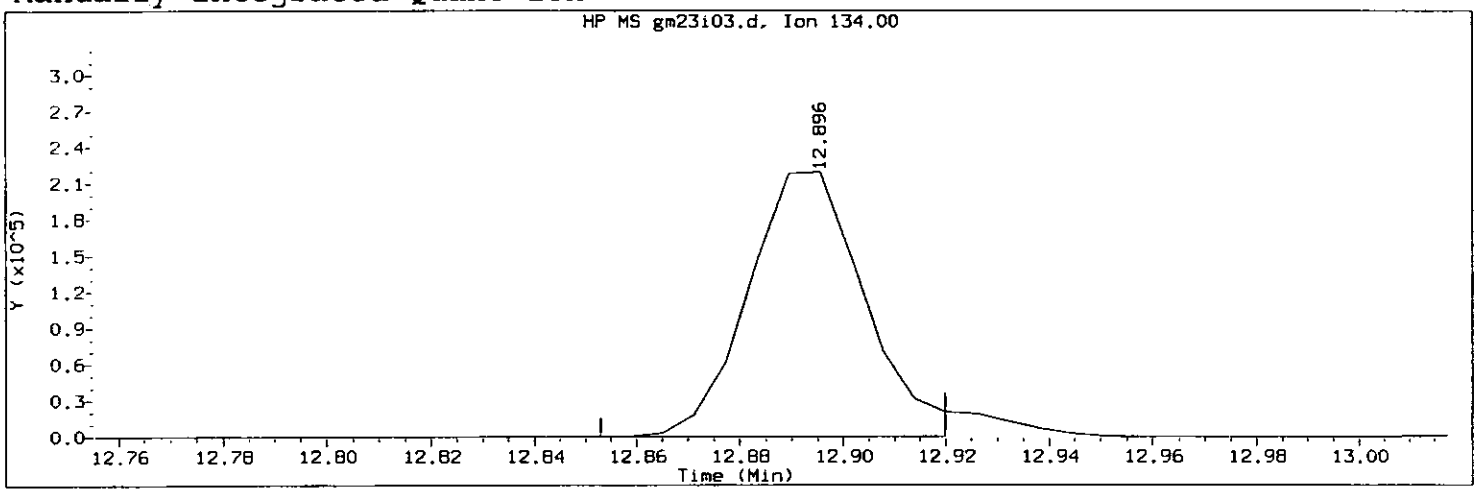
WAT11 0153

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:13
Date, time and analyst ID of latest file update: 23-Mar-2010 15:13 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1855
Retention Time (minutes): 12.896
Quant Ion : 134
Area (flag) : 343660 M
Concentration (ug/L) : 4.8936
Integration start scan : 1847 Integration stop scan: 1858
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

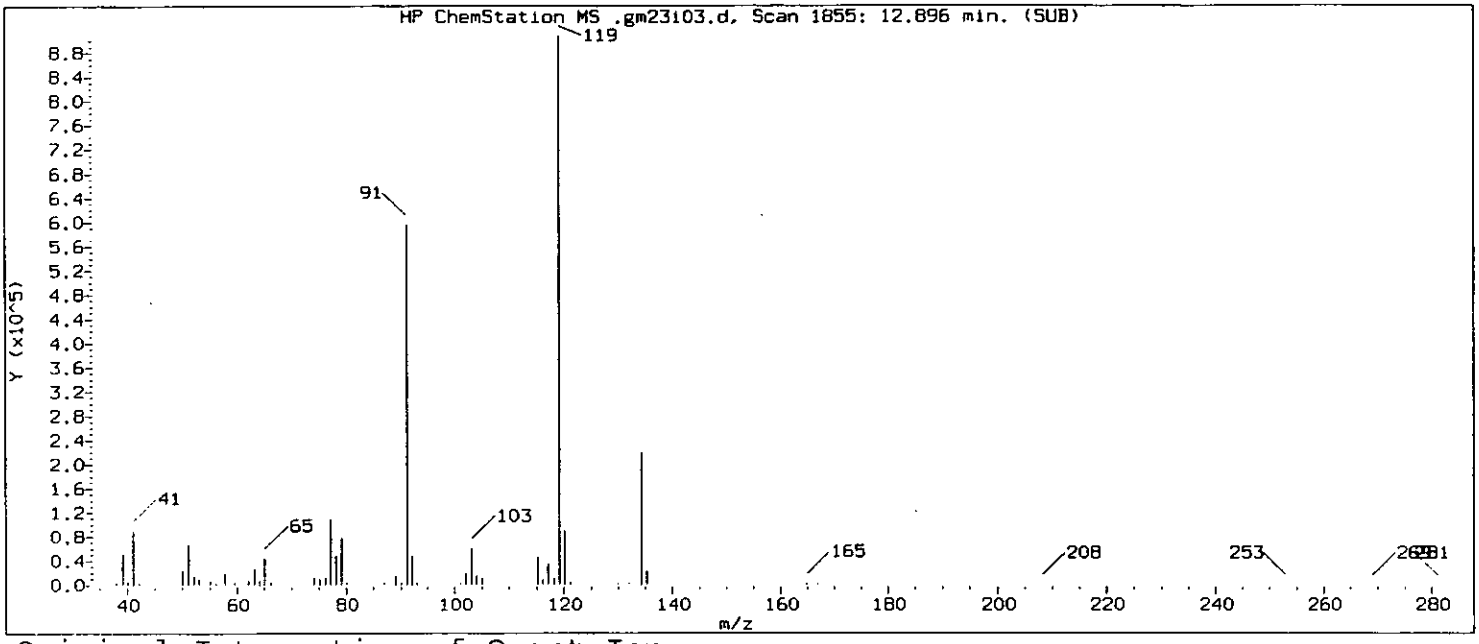
Analyst responsible for change: 3/23/10

GC/MS audit/management approval: 3/24/10

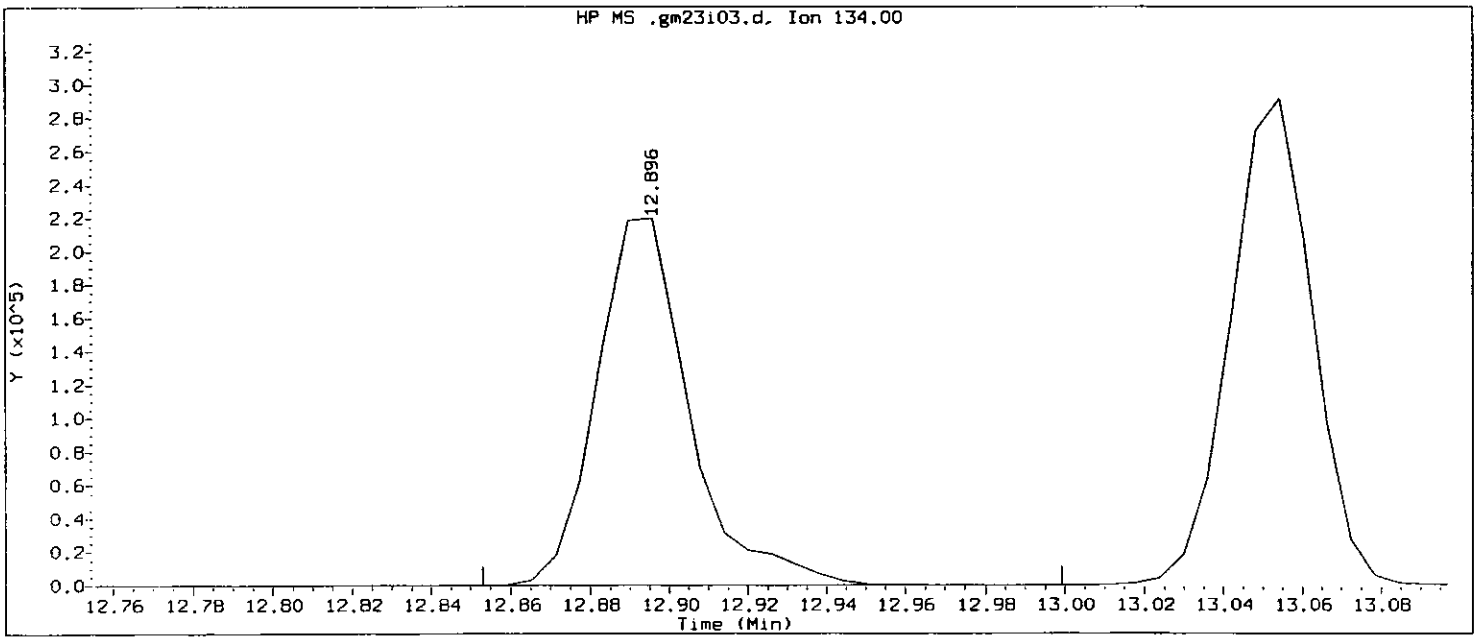
WAT11 0154

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i03.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 13:58 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:15
Date, time and analyst ID of latest file update: 23-Mar-2010 14:15 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.896
Quant Ion	:	134
Area	:	359008
Concentration (ug/L)	:	5.0256
Integration start scan	:	1847 Integration stop scan: 1871
Y at integration start	:	0 Y at integration end: 0

WAT11 8155

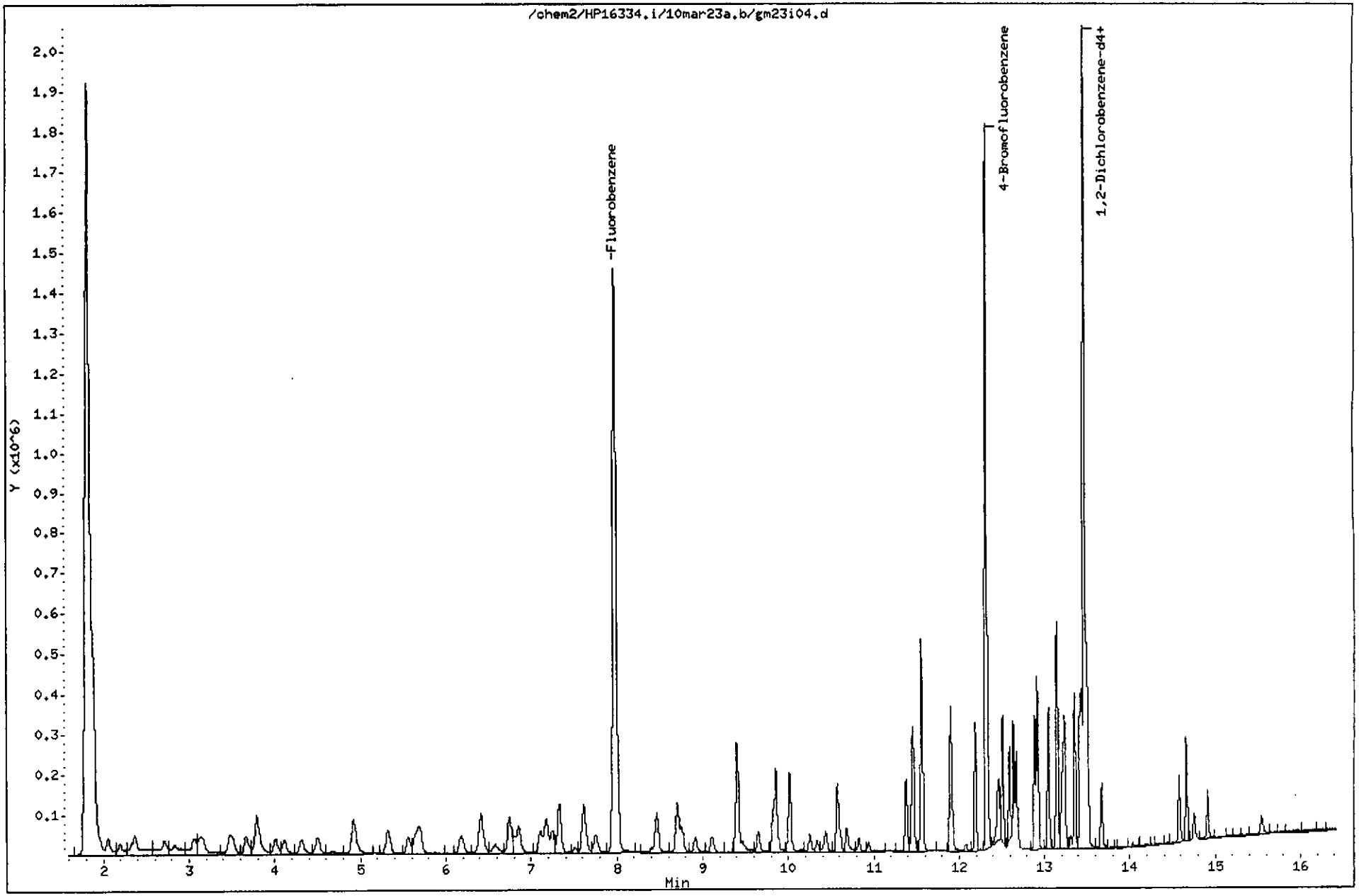
Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i03.d, generated on 03/23/2010 at 15:14

Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d
Date : 23-MAR-2010 14:20
Client ID: VSTD0.5
Sample Info: VSTD0.5;VSTD0.5;1;1;;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25

WAT11 0156



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.050	85	66425	0.495
2) Chloromethane	(1)	2.190	50	24153	0.548
3) Vinyl Chloride	(1)	2.330	62	21771	0.509
4) Bromomethane	(1)	2.715	94	21201	0.568
5) Chloroethane	(1)	2.836	64	13893	0.561
6) Dichlorofluoromethane	(1)	3.062	67	44707	0.531
7) Trichlorofluoromethane	(1)	3.141	101	66318	0.491
8) Ethyl Ether	(1)	3.464	59	14655	0.516
9) Acrolein	(1)	3.659	56	86604	25.160
10) 1,1-Dichloroethene	(1)	3.794	96	35785	0.523
11) Freon 113	(1)	3.806	101	40090	0.515
12) Acetone	(1)	3.891	58	6949	5.318
13) Methyl Iodide	(1)	4.019	142	70198	0.519
14) Carbon Disulfide	(1)	4.117	76	80966	0.484
15) Allyl Chloride	(1)	4.306	39	31536	0.537
17) Methylene Chloride	(1)	4.501	84	39255	0.586
18) t-Butyl Alcohol	(1)	4.678	59	14754	11.577
19) Acrylonitrile	(1)	4.915	53	29561	5.243
20) trans-1,2-Dichloroethene	(1)	4.921	96	43068	0.538
21) Methyl Tertiary Butyl Ether	(1)	4.940	73	49596	0.524
22) 1,1-Dichloroethane	(1)	5.562	63	65898	0.512
24) di-Isopropyl Ether	(1)	5.653	87	27501	0.518
25) Ethyl t-Butyl Ether	(1)	6.183	59	68285M	0.513
26) cis-1,2-Dichloroethene	(1)	6.415	96	42239	0.540
27) 2,2-Dichloropropane	(1)	6.409	77	52567	0.484
28) 2-Butanone	(1)	6.458	43	33803	5.383
29) Propionitrile	(1)	6.561	54	21748	9.706
30) Methyl Acrylate	(1)	6.580	55	48646	2.497
31) Methacrylonitrile	(1)	6.750	67	42436	4.924
32) Bromochloromethane	(1)	6.744	128	13743	0.537
33) Tetrahydrofuran	(1)	6.811	71	15494	7.446
34) Chloroform	(1)	6.860	83	67742	0.518
35) 1,1,1-Trichloroethane	(1)	7.110	97	59746	0.487
36) 1-Chlorobutane	(1)	7.256	49	2460	0.448

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
37) Carbon Tetrachloride	(1)	7.336	117	50753	0.468
38) 1,1-Dichloropropene	(1)	7.336	75	54104	0.508
39) Benzene	(1)	7.610	78	160101	0.533
40) 1,2-Dichloroethane	(1)	7.640	62	30533	0.514
41) t-Amyl Methyl Ether	(1)	7.756	73	52789	0.510
42) *Fluorobenzene	(1)	7.982	96	1926789	5.000
43) Trichloroethene	(1)	8.463	95	45312	0.516
44) 1,2-Dichloropropane	(1)	8.762	63	32893	0.527
45) Methyl Methacrylate	(1)	8.915	69	7688	0.473
46) Dibromomethane	(1)	8.921	93	12349	0.513
47) Bromodichloromethane	(1)	9.116	83	33225	0.476
48) 2-Nitropropane	(1)	9.402	46	8861	44.862
49) Chloroacetonitrile	(1)	9.469	75	19874	23.522
50) cis-1,3-Dichloropropene	(1)	9.652	75	39659	0.490
51) 4-Methyl-2-Pentanone	(1)	9.829	58	34875	4.992
52) 1,1-Dichloropropanone	(1)	9.866	83	17708	45.545
53) Toluene	(1)	10.018	92	102029	0.528
55) trans-1,3-Dichloropropene	(1)	10.256	75	25395	0.448
56) Ethyl Methacrylate	(1)	10.335	69	17371	0.473
57) 1,1,2-Trichloroethane	(1)	10.445	83	14689	0.526
58) Tetrachloroethene	(1)	10.579	166	51647	0.516
59) 1,3-Dichloropropane	(1)	10.609	76	29541	0.516
60) 2-Hexanone	(1)	10.689	58	28380	4.600
61) Dibromochloromethane	(1)	10.829	129	17823	0.462
62) 1,2-Dibromoethane	(1)	10.945	107	15189	0.496
64) Chlorobenzene	(1)	11.384	112	106646	0.520
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	31060	0.483
66) Ethylbenzene	(1)	11.469	106	63105	0.516
67) m+p-Xylene	(1)	11.566	106	154419	1.055
68) o-Xylene	(1)	11.902	106	72086	0.526
69) Styrene	(1)	11.914	104	96036	0.485
71) Bromoform	(1)	12.085	173	7839	0.431
72) Isopropylbenzene	(1)	12.194	120	51682	0.512
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	16471M	0.517

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

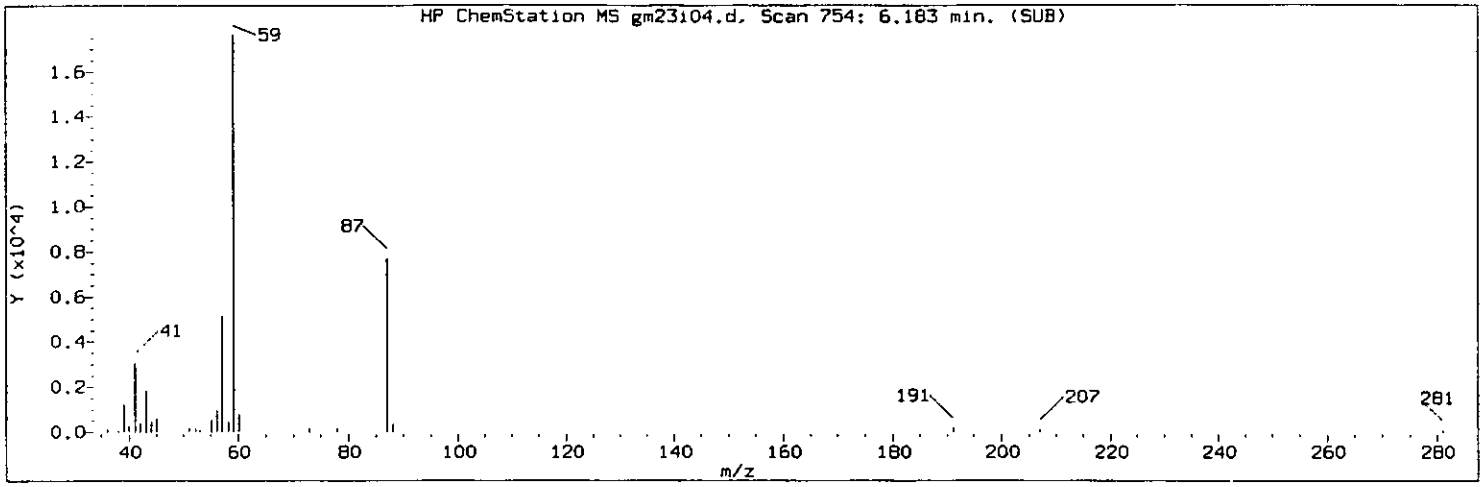
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
75) Bromobenzene	(1)	12.457	156	40450	0.530
76) 1,2,3-Trichloropropane	(1)	12.475	110	4812	0.522
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	23901M	4.308
78) n-Propylbenzene	(1)	12.517	120	57528	0.518
79) 2-Chlorotoluene	(1)	12.597	126	47698	0.523
80) 1,3,5-Trimethylbenzene	(1)	12.639	105	173050	0.507
81) 4-Chlorotoluene	(1)	12.676	126	48810	0.535
82) tert-Butylbenzene	(1)	12.895	134	38159M	0.520
83) Pentachloroethane	(1)	12.926	167	20723	0.473
84) 1,2,4-Trimethylbenzene	(1)	12.926	105	168487	0.506
85) sec-Butylbenzene	(1)	13.054	134	45640	0.509
86) p-Isopropyltoluene	(1)	13.151	119	193592	0.515
87) 1,3-Dichlorobenzene	(1)	13.158	146	87042	0.537
88) 1,4-Dichlorobenzene	(1)	13.219	146	89028	0.543
89) n-Butylbenzene	(1)	13.444	92	99914	0.528
91) 1,2-Dichlorobenzene	(1)	13.487	146	70958	0.548
92) Hexachloroethane	(1)	13.676	201	22677	0.427
93) 1,2-Dibromo-3-Chloropropane	(1)	14.035	157	2355	0.452
94) Nitrobenzene	(1)	14.194	77	3416M	8.000
95) 1,2,4-Trichlorobenzene	(1)	14.578	180	53221	0.506
96) Hexachlorobutadiene	(1)	14.663	225	44774	0.510
97) Naphthalene	(1)	14.755	128	56402	0.483
98) 1,2,3-Trichlorobenzene	(1)	14.913	180	42392	0.536
73)$4-Bromofluorobenzene	(1)	12.328	174	508083	4.975
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	504899	5.089

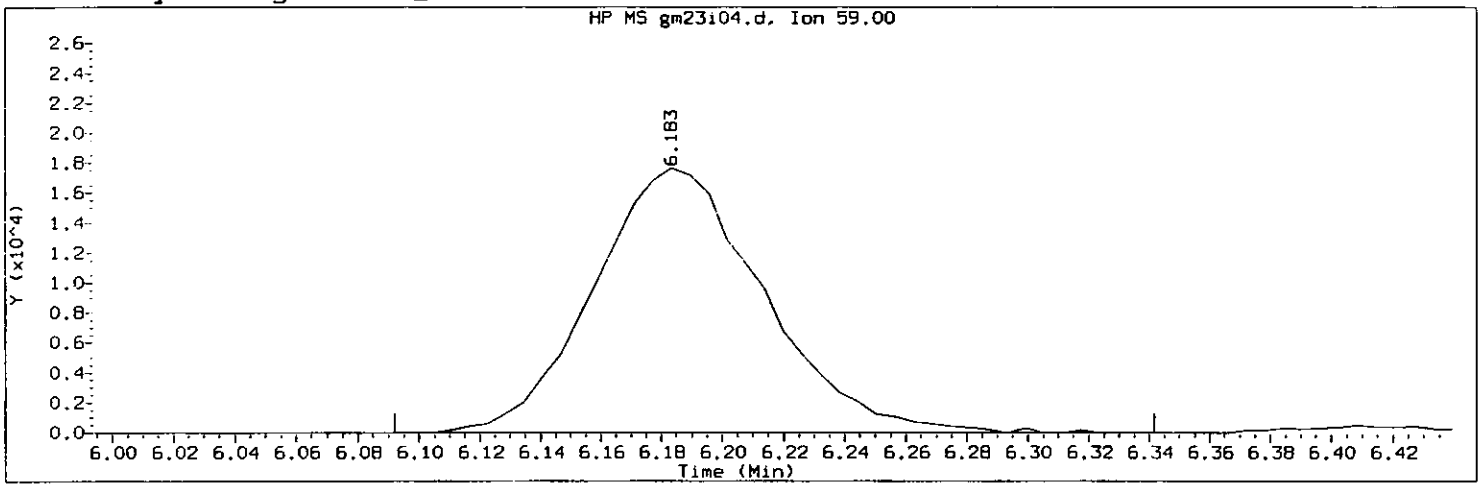
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 25
Compound Name : Ethyl t-Butyl Ether
Scan Number : 754
Retention Time (minutes): 6.183
Quant Ion : 59
Area (flag) : 68285 M
Concentration (ug/L) : 0.5126
Integration start scan : 738 Integration stop scan: 779
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

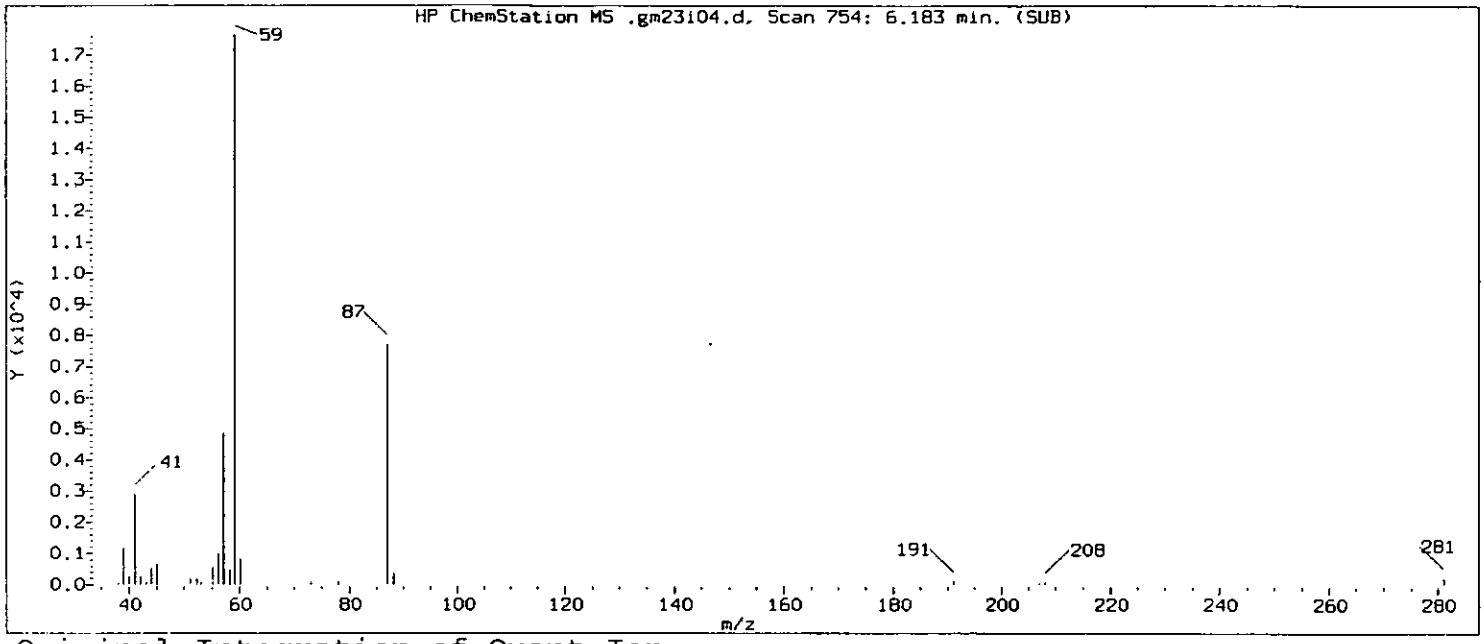
Analyst responsible for change: JMC 3/23/10

GC/MS audit/management approval: 3/24/10

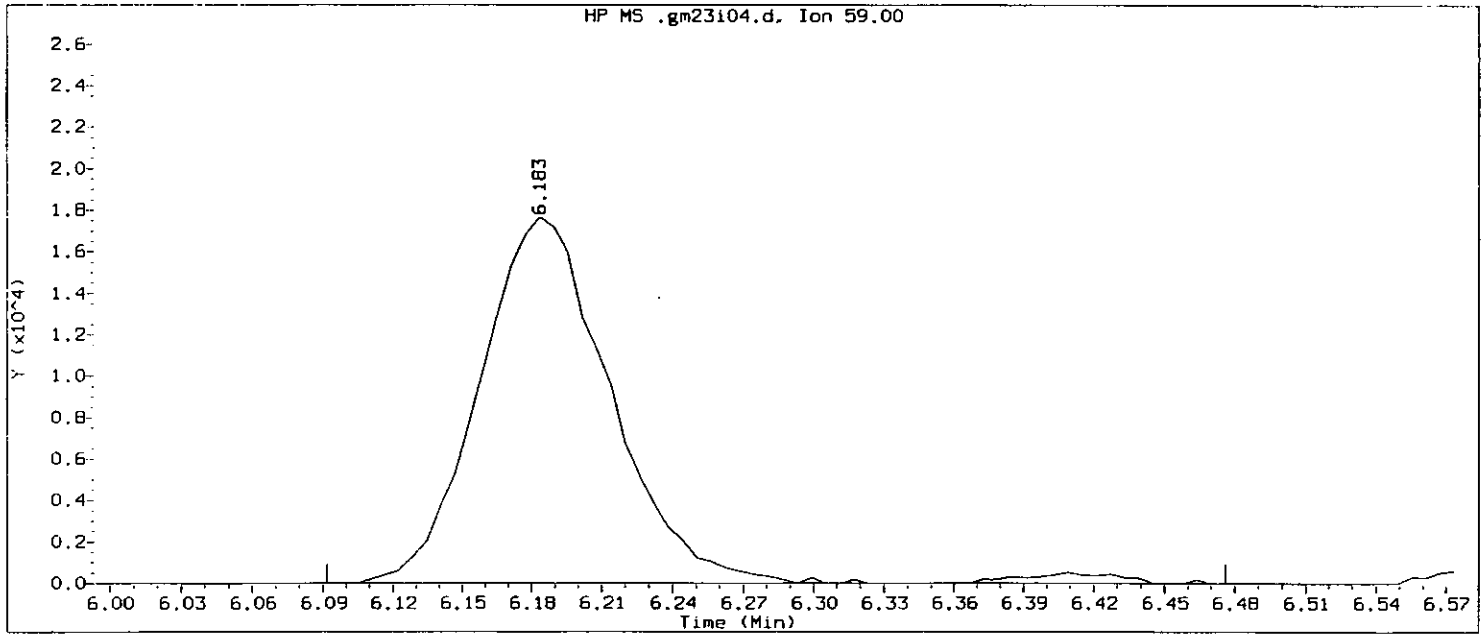
WAT11 0160

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:37
Date, time and analyst ID of latest file update: 23-Mar-2010 14:37 Automation

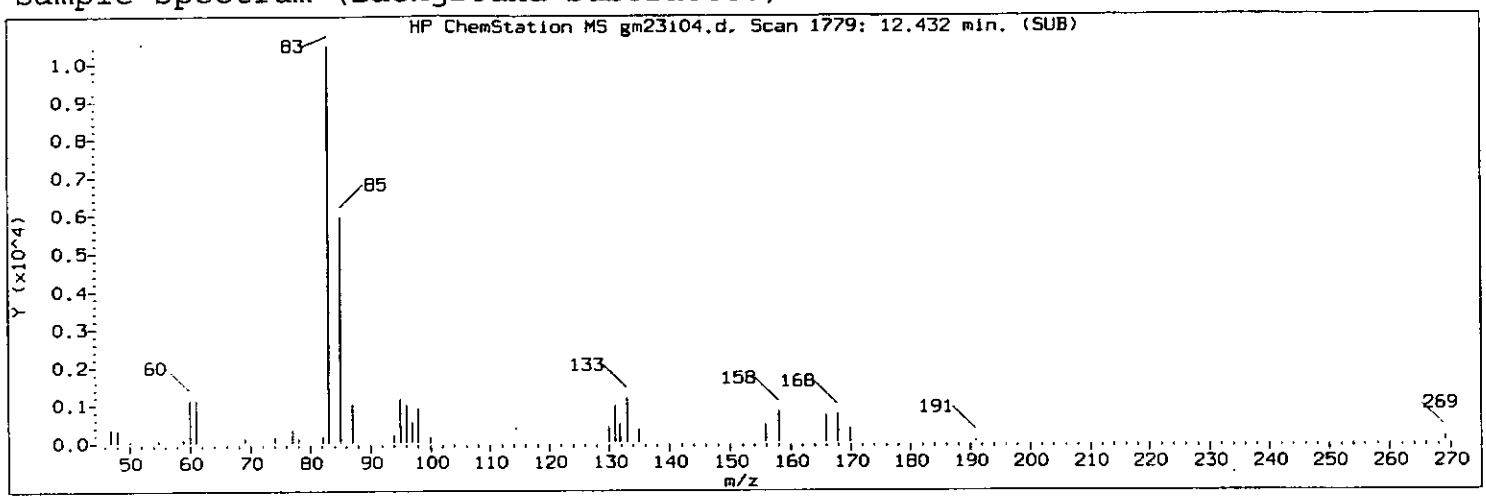
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 25
Compound Name : Ethyl t-Butyl Ether
Scan Number : 754
Retention Time (minutes): 6.183
Quant Ion : 59
Area : 69768
Concentration (ug/L) : 0.5208
Integration start scan : 738 Integration stop scan: 801
Y at integration start : 0 Y at integration end: 0

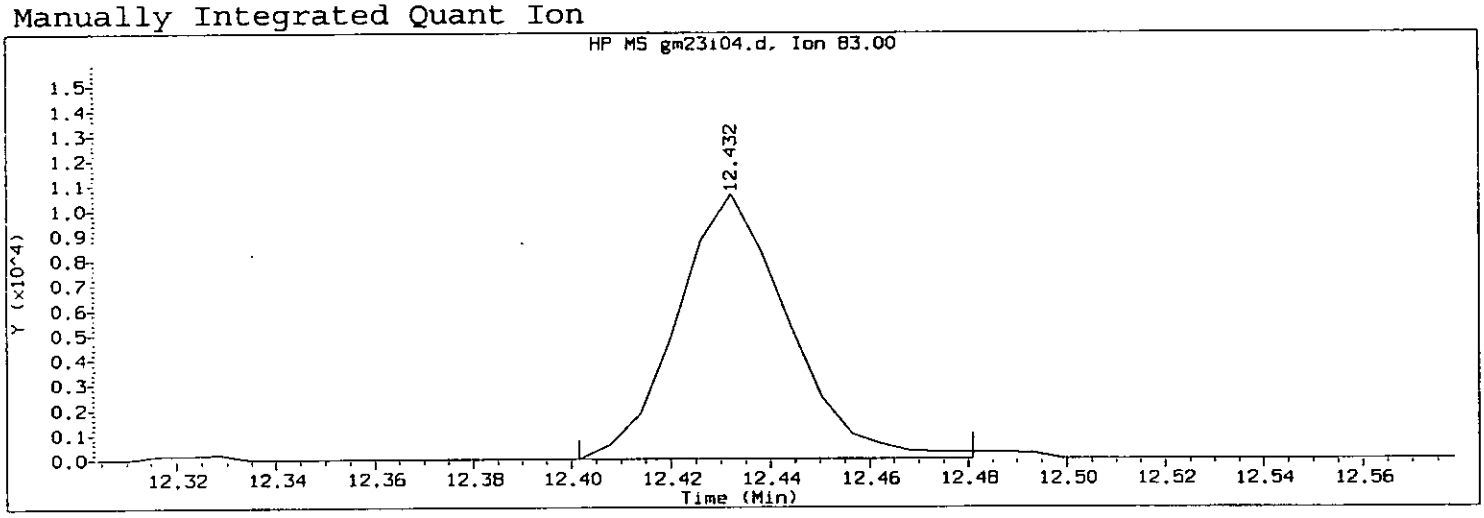
WAT11 0161

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area (flag)	:	16471 M
Concentration (ug/L)	:	0.5170
Integration start scan	:	1773 Integration stop scan: 1786
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

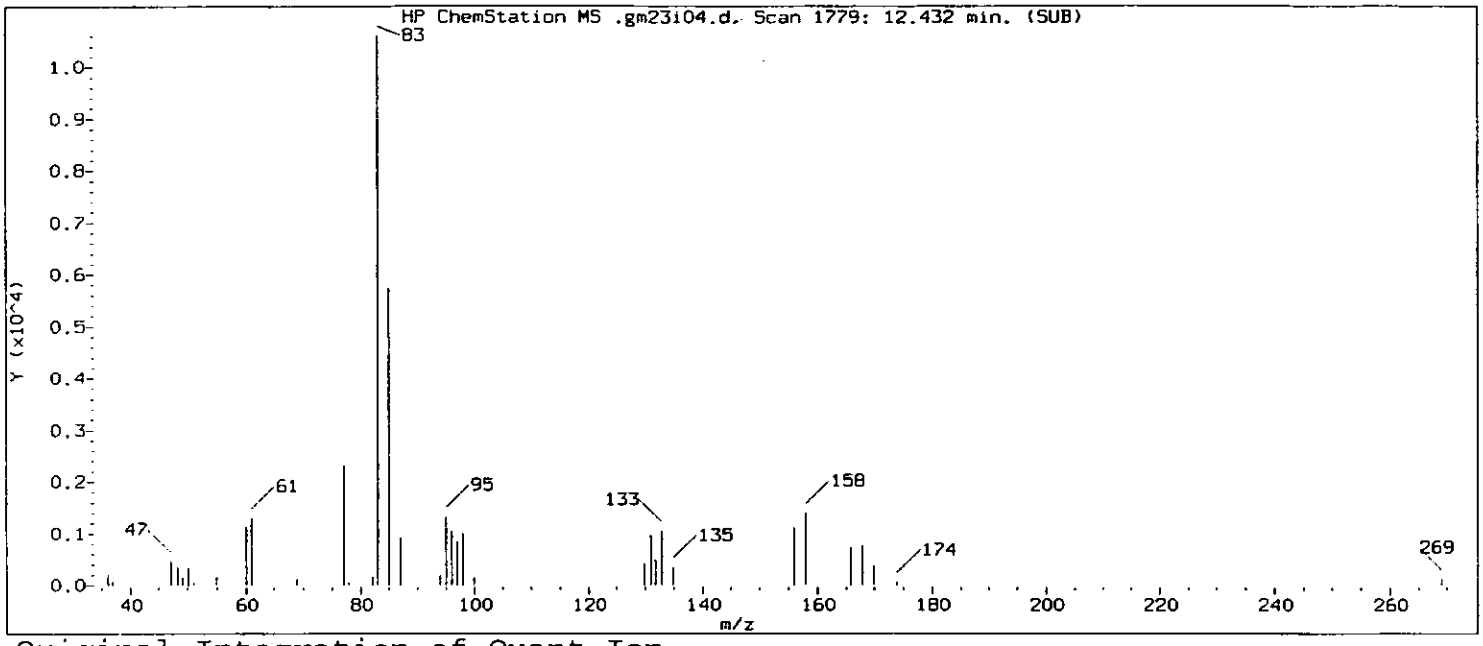
Analyst responsible for change: jm 3/23/10

WAT11 0162

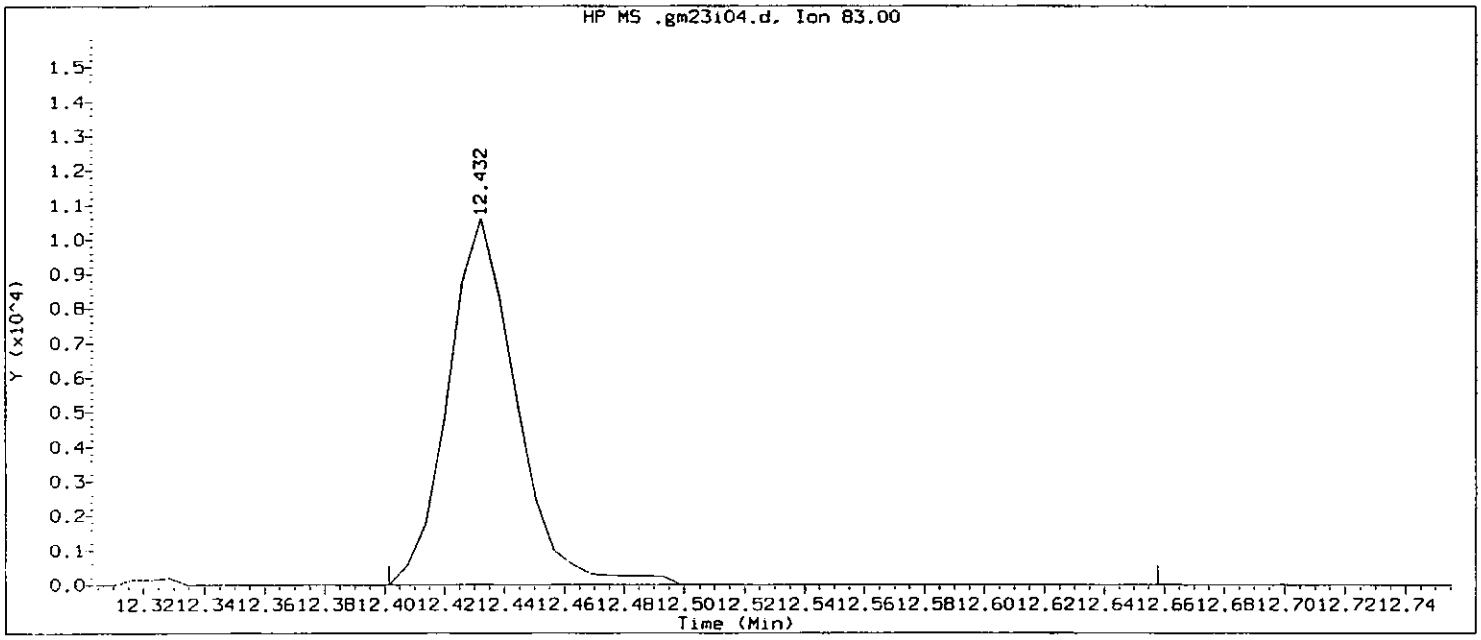
GC/MS audit/management approval: 3/24/10

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:37
Date, time and analyst ID of latest file update: 23-Mar-2010 14:37 Automation

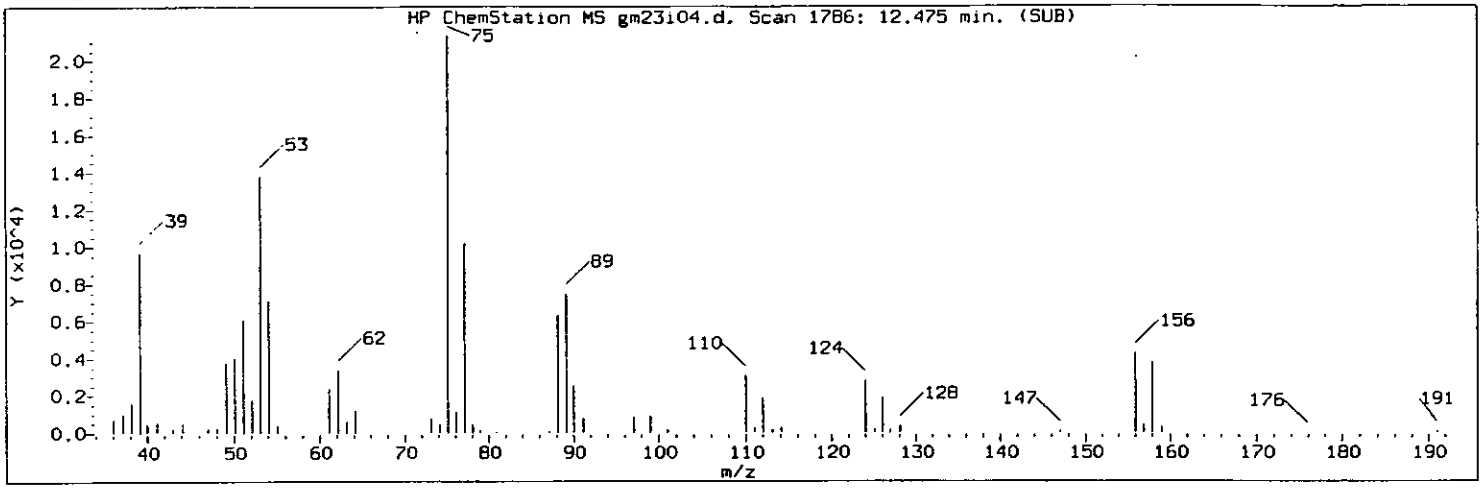
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area	:	16656
Concentration (ug/L)	:	0.5181
Integration start scan	:	1773 Integration stop scan: 1815
Y at integration start	:	0 Y at integration end: 0

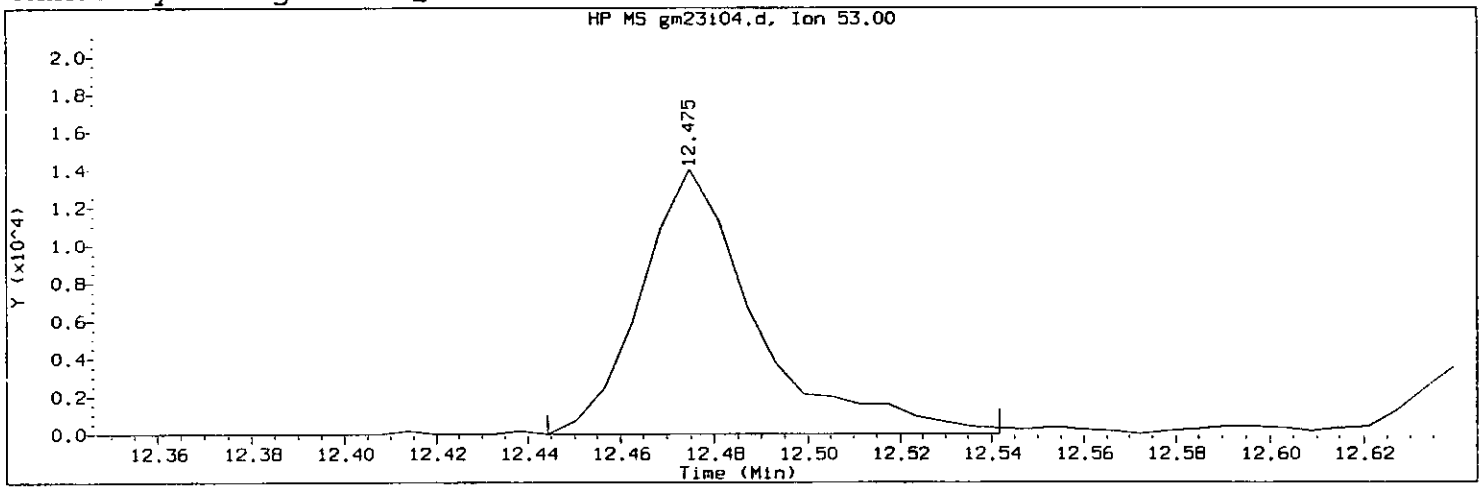
WAT11 8863

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 77
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1786
Retention Time (minutes): 12.475
Quant Ion : 53
Area (flag) : 23901 M
Concentration (ug/L) : 4.3082
Integration start scan : 1780 Integration stop scan: 1796
Y at integration start : 0 Y at integration end: 0

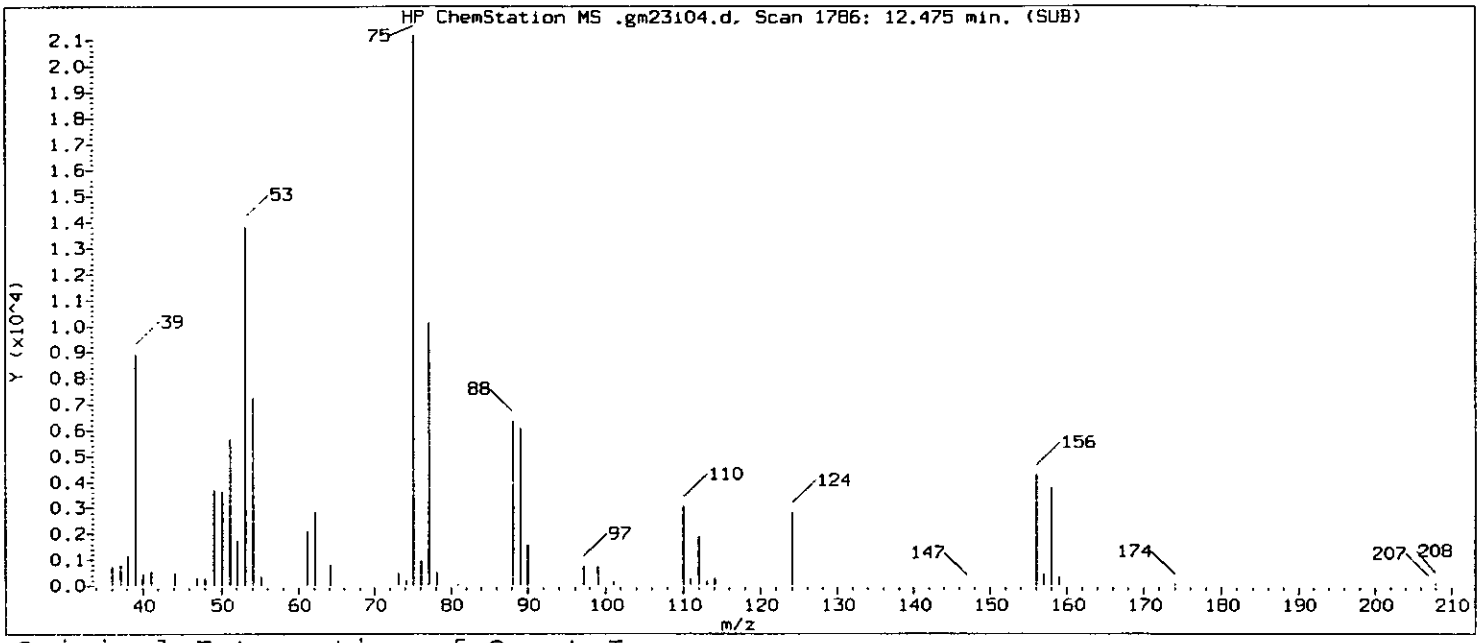
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: jm 3/23/10

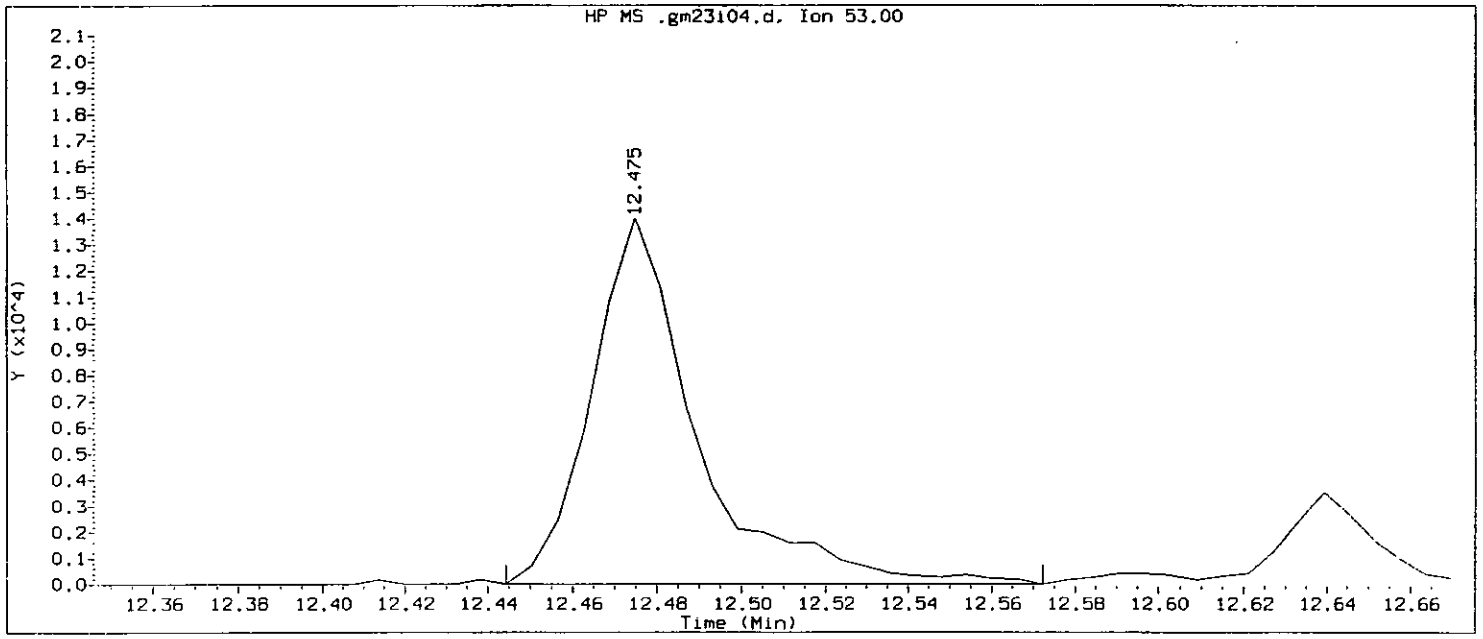
WAT11 0164

GC/MS audit/management approval: 3/24/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:37
Date, time and analyst ID of latest file update: 23-Mar-2010 14:37 Automation

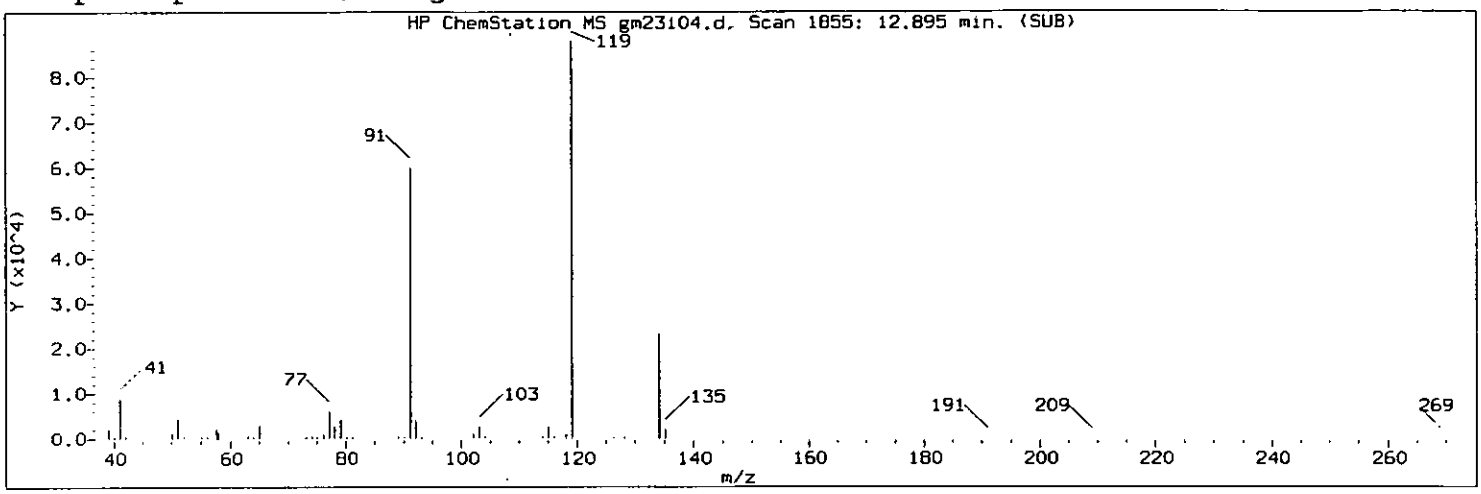
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number	: 77
Compound Name	: trans-1,4-Dichloro-2-Butene
Scan Number	: 1786
Retention Time (minutes)	: 12.475
Quant Ion	: 53
Area	: 24284
Concentration (ug/L)	: 4.3249
Integration start scan	: 1780 Integration stop scan: 1801
Y at integration start	: 0 Y at integration end: 0

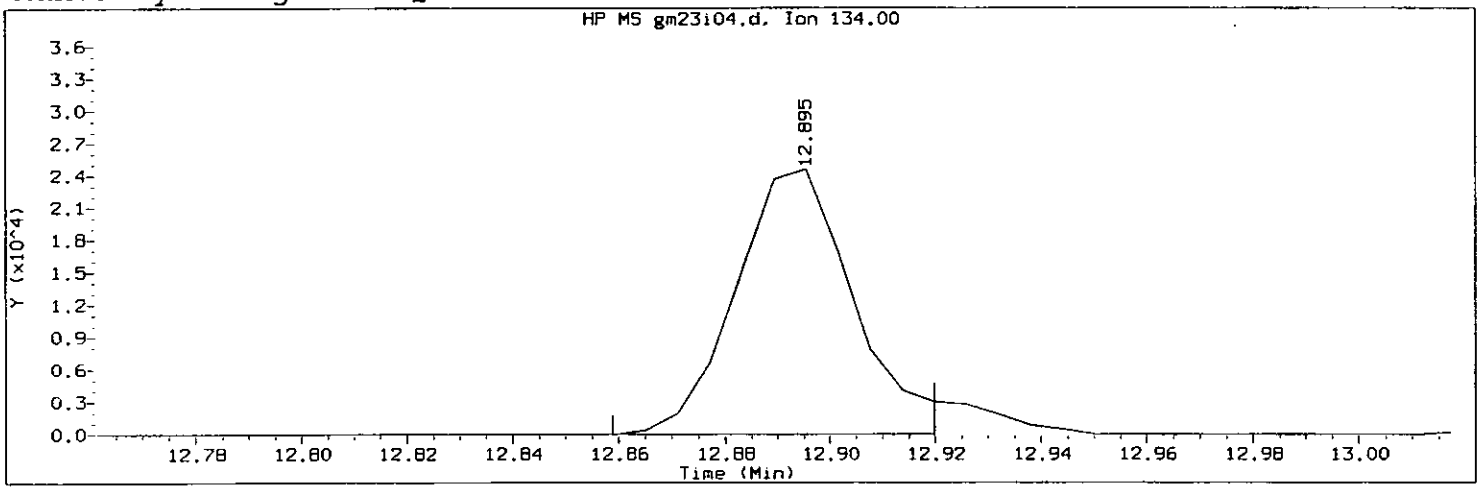
WAT11 8165

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.895
Quant Ion	:	134
Area (flag)	:	38159 M
Concentration (ug/L)	:	0.5199
Integration start scan	:	1848 Integration stop scan: 1858
Y at integration start	:	0 Y at integration end: 0

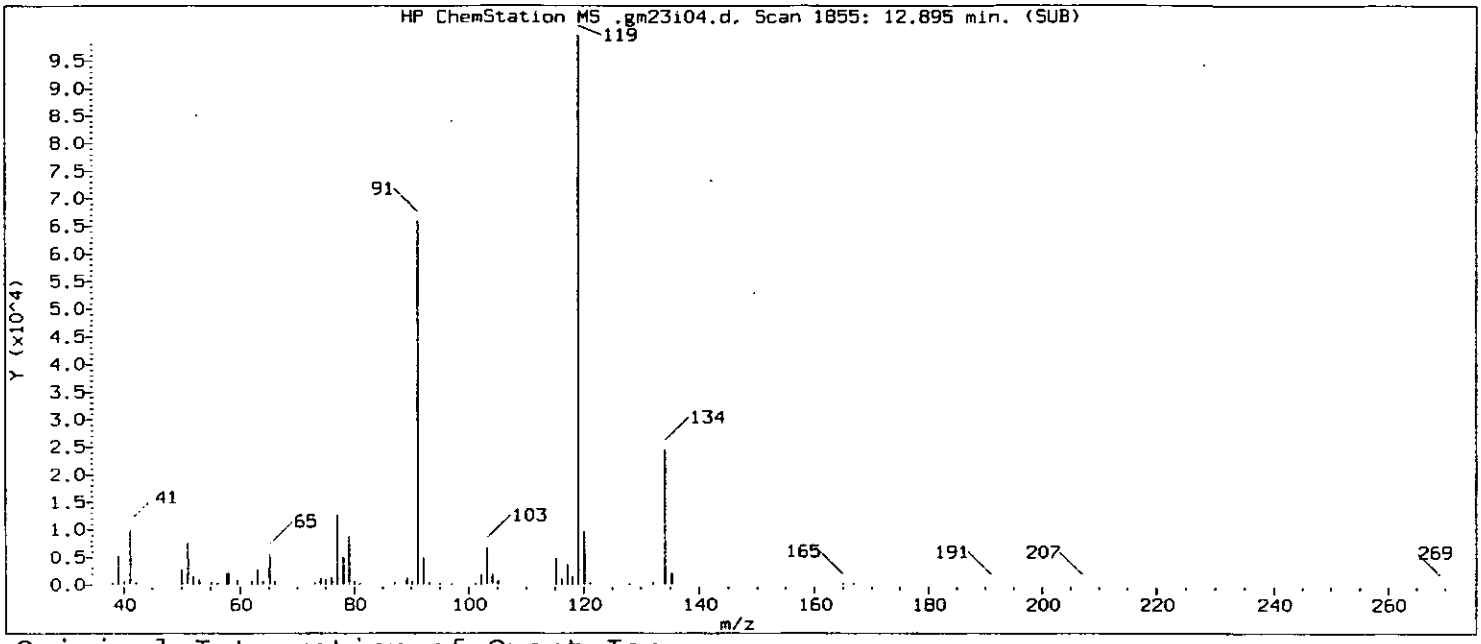
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: JM 3/23/10

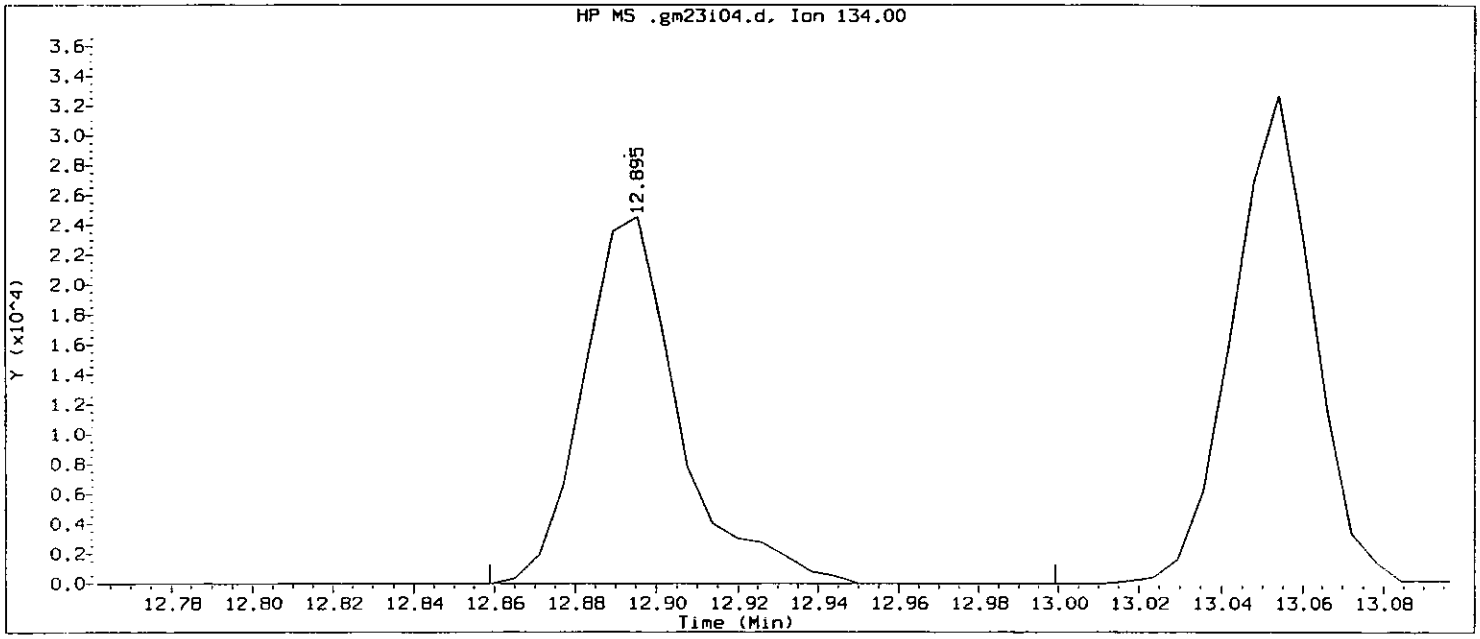
GC/MS audit/management approval: 3/24/10

WAT11 0166

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:37
Date, time and analyst ID of latest file update: 23-Mar-2010 14:37 Automation

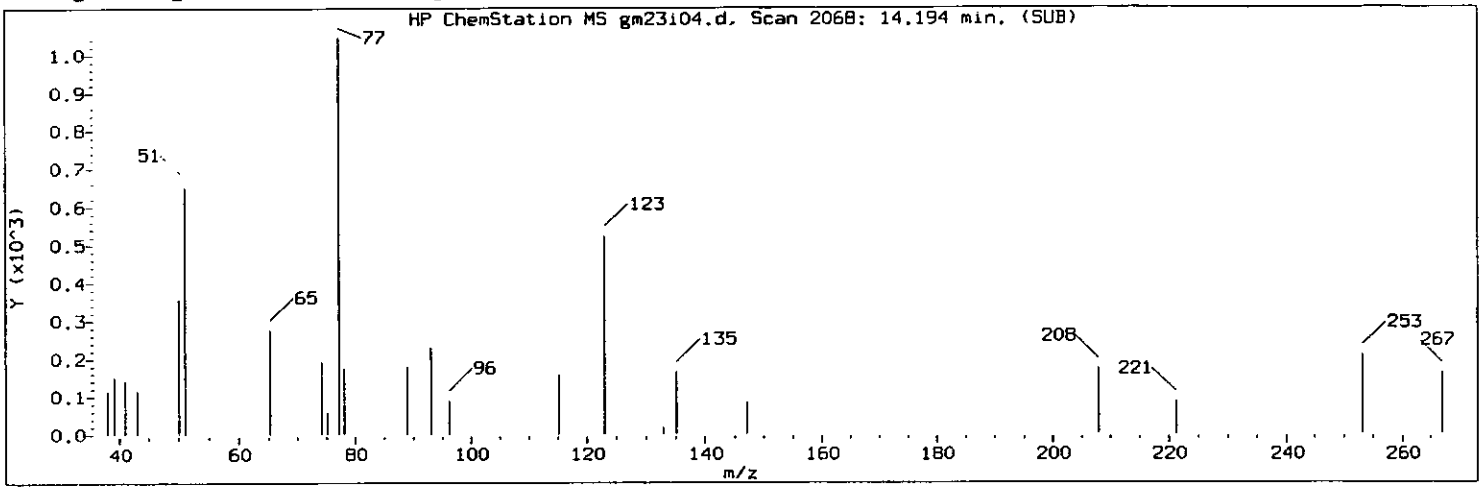
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number	: 82
Compound Name	: tert-Butylbenzene
Scan Number	: 1855
Retention Time (minutes)	: 12.895
Quant Ion	: 134
Area	: 40319
Concentration (ug/L)	: 0.5356
Integration start scan	: 1848 Integration stop scan: 1871
Y at integration start	: 0 Y at integration end: 0

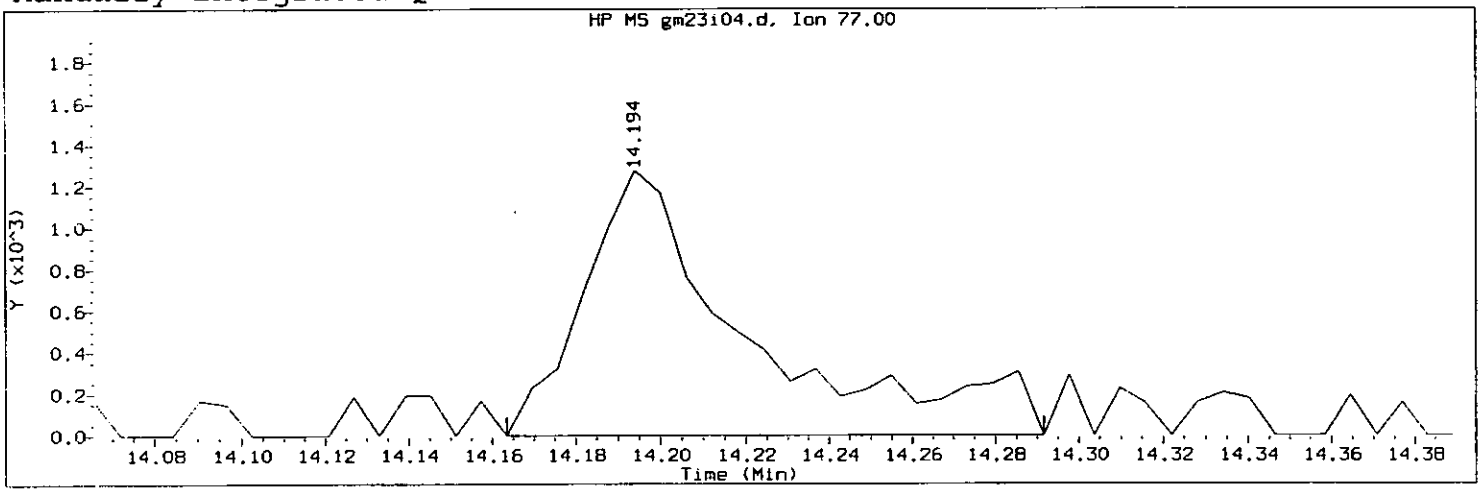
WAT11 8167

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:14 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 94
Compound Name : Nitrobenzene
Scan Number : 2068
Retention Time (minutes): 14.194
Quant Ion : 77
Area (flag) : 3416 M
Concentration (ug/L) : 8.0003
Integration start scan : 2062 Integration stop scan: 2083
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

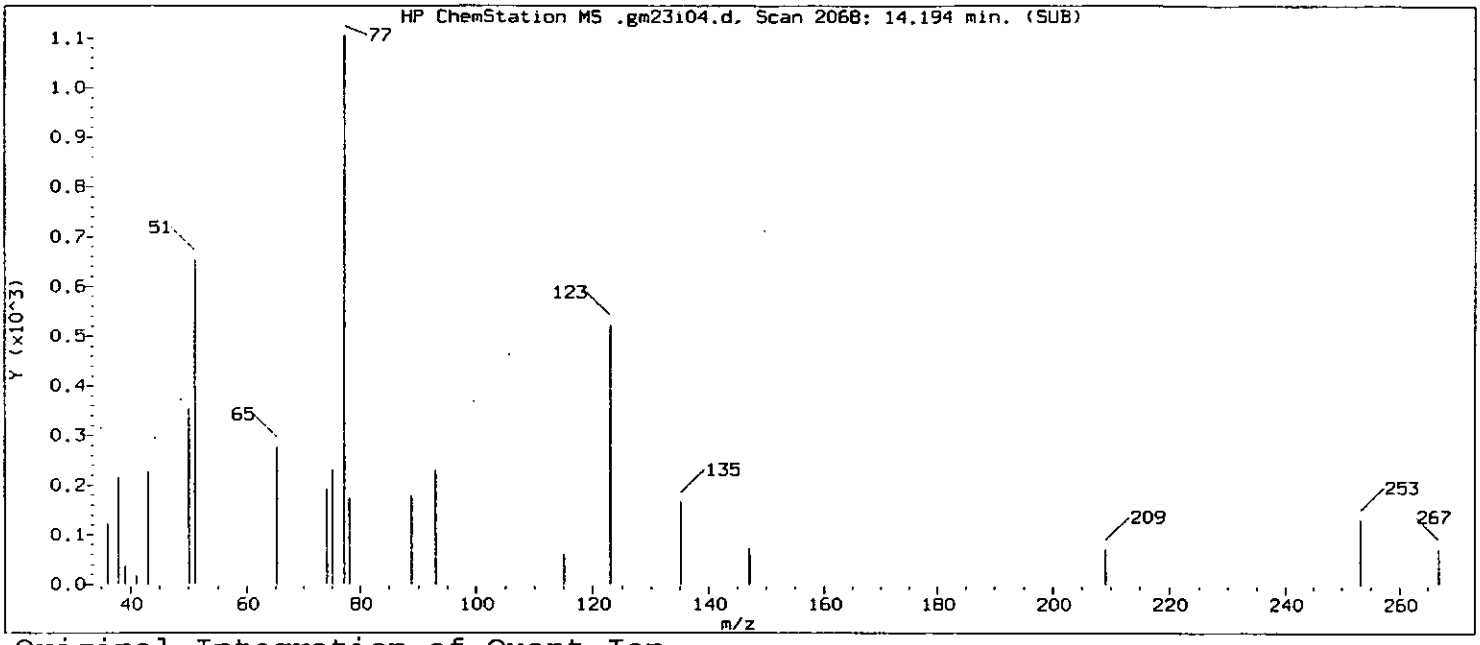
Analyst responsible for change: jm 3/23/10

GC/MS audit/management approval: dlg 3/24/10

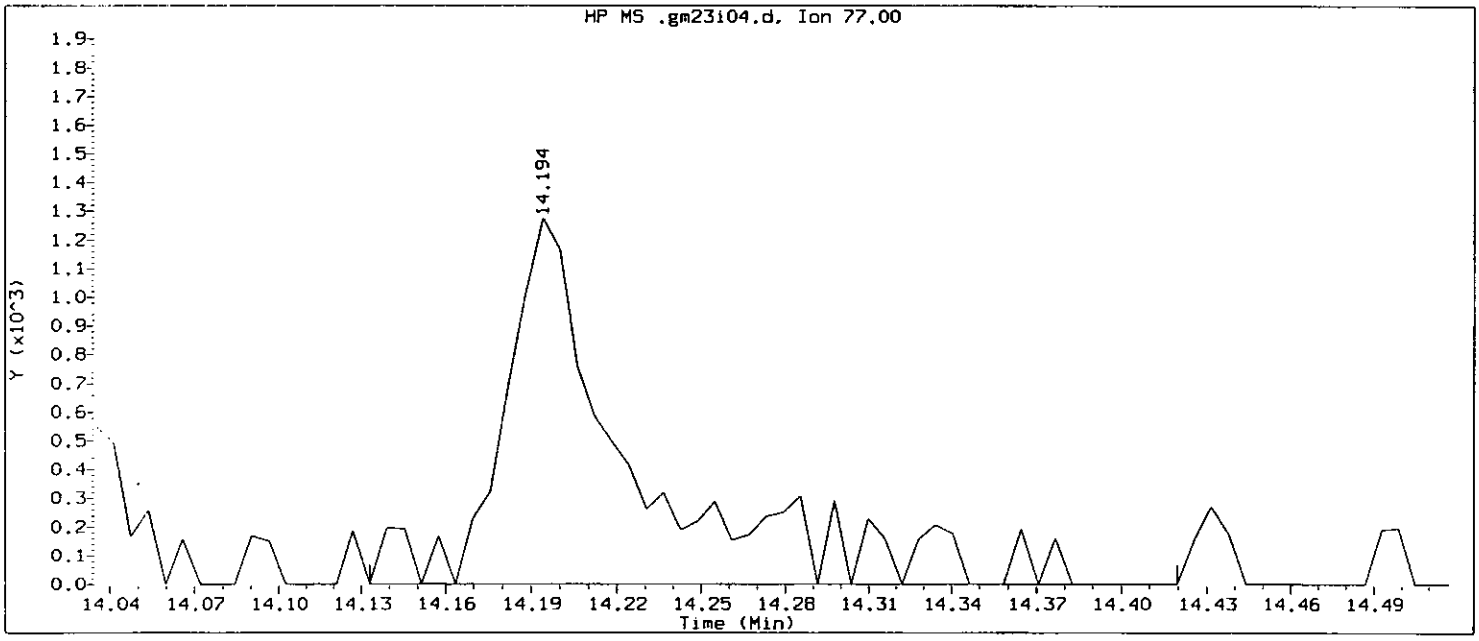
WAT11 0168

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gm23i04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 14:20 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 14:37
Date, time and analyst ID of latest file update: 23-Mar-2010 14:37 Automation

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number	:	94
Compound Name	:	Nitrobenzene
Scan Number	:	2068
Retention Time (minutes)	:	14.194
Quant Ion	:	77
Area	:	4191
Concentration (ug/L)	:	9.3907
Integration start scan	:	2057 Integration stop scan: 2104
Y at integration start	:	0 Y at integration end: 0

WAT11 0169

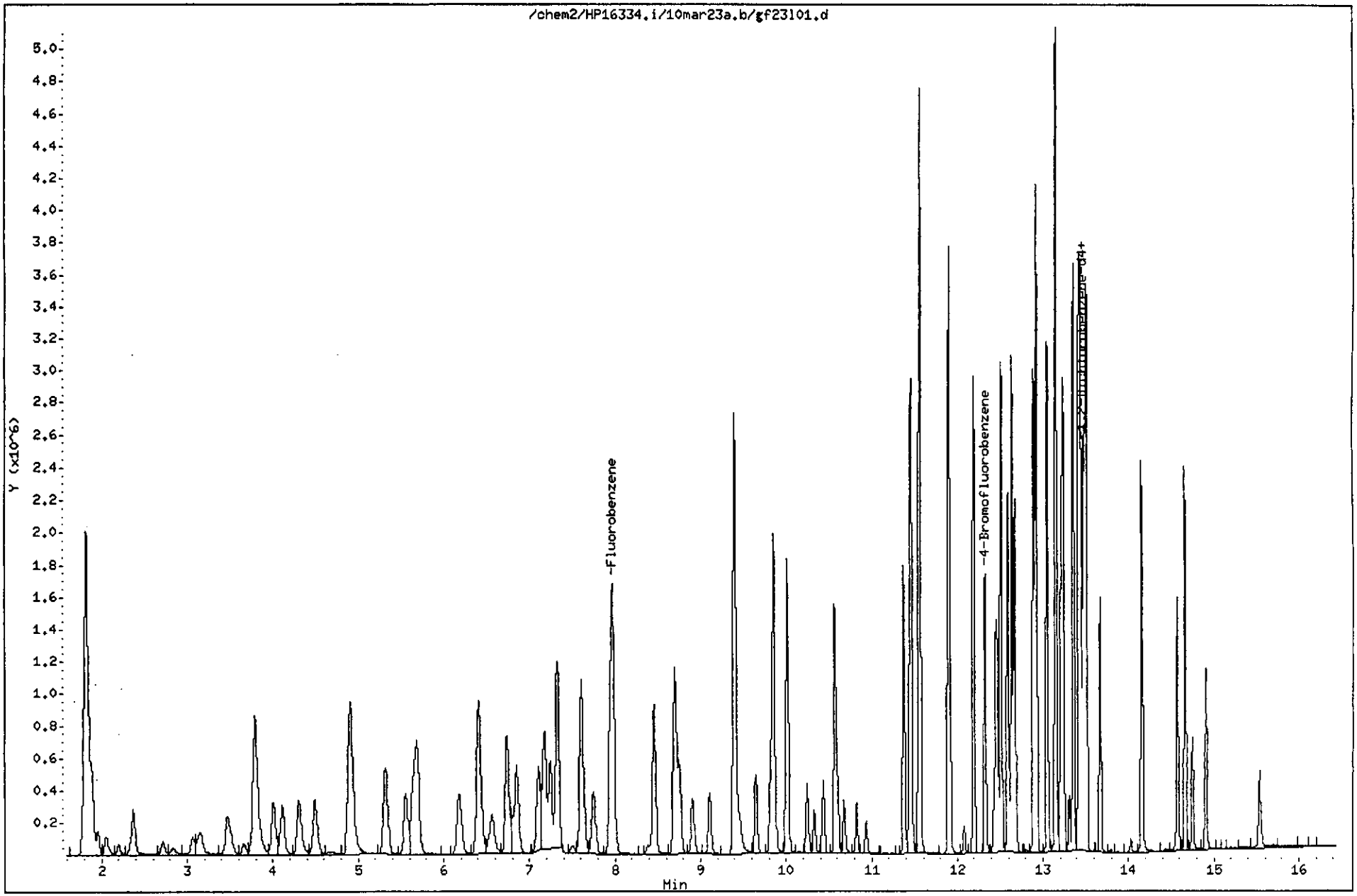
Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gm23i04.d, generated on 03/23/2010 at 15:14

Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d
Date : 23-MAR-2010 15:27
Client ID: LFBG37
Sample Info: LFBG37;LFBG37;1;3;LCS;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25

WATII 8178



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:47 jml01693

Sample Name: LFBG37 Lab Sample ID: LFBG37

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.050	85	207854	1.601
2) Chloromethane	(1)	2.197	50	77737	1.824
3) Vinyl Chloride	(1)	2.337	62	86108	2.083
4) Bromomethane	(1)	2.715	94	70700	1.959
5) Chloroethane	(1)	2.831	64	46999	1.961
6) Dichlorofluoromethane	(1)	3.056	67	152336	1.872
7) Trichlorofluoromethane	(1)	3.148	101	251927M	1.928
8) Ethyl Ether	(1)	3.465	59	139662	5.084
9) Acrolein	(1)	3.660	56	125207	37.604
10) 1,1-Dichloroethene	(1)	3.788	96	350727	5.299
11) Freon 113	(1)	3.806	101	385467	5.117
12) Acetone	(1)	3.867	58	46218	36.564
13) Methyl Iodide	(1)	4.007	142	646671	4.946
14) Carbon Disulfide	(1)	4.111	76	754760	4.662
15) Allyl Chloride	(1)	4.306	39	261744	4.609
17) Methylene Chloride	(1)	4.495	84	318177	4.910
18) t-Butyl Alcohol	(1)	4.684	59	59394	48.181
19) Acrylonitrile	(1)	4.891	53	660759	121.160
20) trans-1,2-Dichloroethene	(1)	4.922	96	390808	5.043
21) Methyl Tertiary Butyl Ether	(1)	4.916	73	435175	4.752
22) 1,1-Dichloroethane	(1)	5.556	63	628144	5.045
24) di-Isopropyl Ether	(1)	5.653	87	249263	4.854
25) Ethyl t-Butyl Ether	(1)	6.177	59	603492	4.683
26) cis-1,2-Dichloroethene	(1)	6.403	96	370998	4.900
27) 2,2-Dichloropropane	(1)	6.409	77	518955	4.944
28) 2-Butanone	(1)	6.434	43	218957M	36.043
29) Propionitrile	(1)	6.537	54	220556	101.757
30) Methyl Acrylate	(1)	6.568	55	455362	24.166
31) Methacrylonitrile	(1)	6.732	67	314269	37.697
32) Bromochloromethane	(1)	6.744	128	123107	4.973
33) Tetrahydrofuran	(1)	6.805	71	92288	45.848
34) Chloroform	(1)	6.854	83	612906	4.844
35) 1,1,1-Trichloroethane	(1)	7.104	97	586843	4.945
36) 1-Chlorobutane	(1)	7.244	49	28161	5.302

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gf23l01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:47 jml01693

Sample Name: LFBG37 Lab Sample ID: LFBG37

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
37) Carbon Tetrachloride	(1)	7.330	117	508313	4.845
38) 1,1-Dichloropropene	(1)	7.324	75	515982	5.006
39) Benzene	(1)	7.610	78	1398532	4.814
40) 1,2-Dichloroethane	(1)	7.641	62	278419	4.844
41) t-Amyl Methyl Ether	(1)	7.750	73	462693	4.625
42) *Fluorobenzene	(1)	7.982	96	1863813	5.000
43) Trichloroethene	(1)	8.458	95	419884	4.945
44) 1,2-Dichloropropane	(1)	8.756	63	297286	4.928
45) Methyl Methacrylate	(1)	8.903	69	72730	4.624
46) Dibromomethane	(1)	8.915	93	116522	5.005
47) Bromodichloromethane	(1)	9.110	83	325314	4.819
48) 2-Nitropropane	(1)	9.402	46	95978	502.340
49) Chloroacetonitrile	(1)	9.457	75	210710	257.811
50) cis-1,3-Dichloropropene	(1)	9.646	75	352787	4.509
51) 4-Methyl-2-Pentanone	(1)	9.823	58	168162	24.886
52) 1,1-Dichloropropanone	(1)	9.860	83	182266	484.630
53) Toluene	(1)	10.018	92	915477	4.900
55) trans-1,3-Dichloropropene	(1)	10.250	75	258420	4.717
56) Ethyl Methacrylate	(1)	10.335	69	164640	4.633
57) 1,1,2-Trichloroethane	(1)	10.439	83	131712	4.876
58) Tetrachloroethene	(1)	10.573	166	494612	5.110
59) 1,3-Dichloropropane	(1)	10.603	76	269282	4.865
60) 2-Hexanone	(1)	10.677	58	141587	23.723
61) Dibromochloromethane	(1)	10.829	129	170895	4.580
62) 1,2-Dibromoethane	(1)	10.939	107	141145	4.762
64) Chlorobenzene	(1)	11.378	112	970138	4.890
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	296741	4.773
66) Ethylbenzene	(1)	11.463	106	572207	4.837
67) m+p-Xylene	(1)	11.567	106	1382434	9.765
68) o-Xylene	(1)	11.902	106	652695	4.925
69) Styrene	(1)	11.914	104	975485	5.091
71) Bromoform	(1)	12.079	173	78000	4.436
72) Isopropylbenzene	(1)	12.195	120	489096	5.012
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	146227M	4.745

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar23a.b/gf23l01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 23-Mar-2010 15:47 jml01693

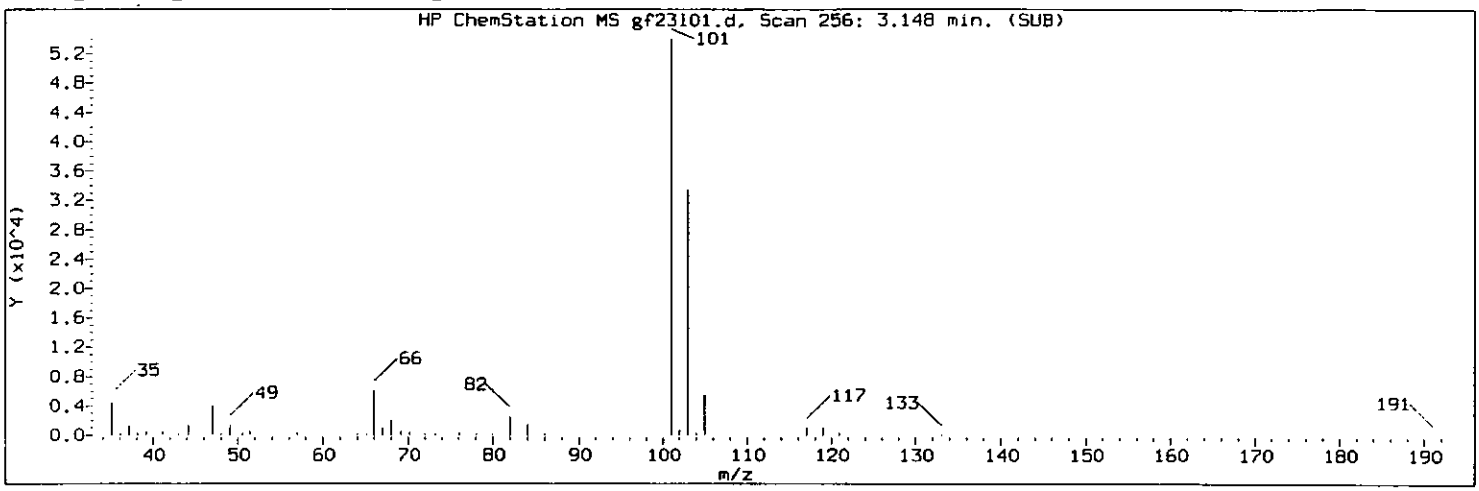
Sample Name: LFBG37 Lab Sample ID: LFBG37

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
75) Bromobenzene	(1)	12.457	156	352265	4.774
76) 1,2,3-Trichloropropane	(1)	12.475	110	42149	4.722
77) trans-1,4-Dichloro-2-Butene	(1)	12.469	53	113539	21.157
78) n-Propylbenzene	(1)	12.512	120	520830	4.846
79) 2-Chlorotoluene	(1)	12.597	126	422477	4.786
80) 1,3,5-Trimethylbenzene	(1)	12.640	105	1575419	4.773
81) 4-Chlorotoluene	(1)	12.676	126	418643	4.741
82) tert-Butylbenzene	(1)	12.896	134	343465M	4.837
83) Pentachloroethane	(1)	12.926	167	205757	4.851
84) 1,2,4-Trimethylbenzene	(1)	12.926	105	1618567	5.022
85) sec-Butylbenzene	(1)	13.054	134	417597	4.818
86) p-Isopropyltoluene	(1)	13.146	119	1809768	4.973
87) 1,3-Dichlorobenzene	(1)	13.152	146	772653	4.926
88) 1,4-Dichlorobenzene	(1)	13.219	146	757992	4.782
89) n-Butylbenzene	(1)	13.438	92	915965	5.001
91) 1,2-Dichlorobenzene	(1)	13.487	146	604926	4.832
92) Hexachloroethane	(1)	13.670	201	229565	4.473
93) 1,2-Dibromo-3-Chloropropane	(1)	14.030	157	22646	4.495
95) 1,2,4-Trichlorobenzene	(1)	14.578	180	486149	4.779
96) Hexachlorobutadiene	(1)	14.664	225	421766	4.969
97) Naphthalene	(1)	14.749	128	516864	4.572
98) 1,2,3-Trichlorobenzene	(1)	14.907	180	340616	4.450
73)$4-Bromofluorobenzene	(1)	12.329	174	487079	4.931
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	472302	4.921

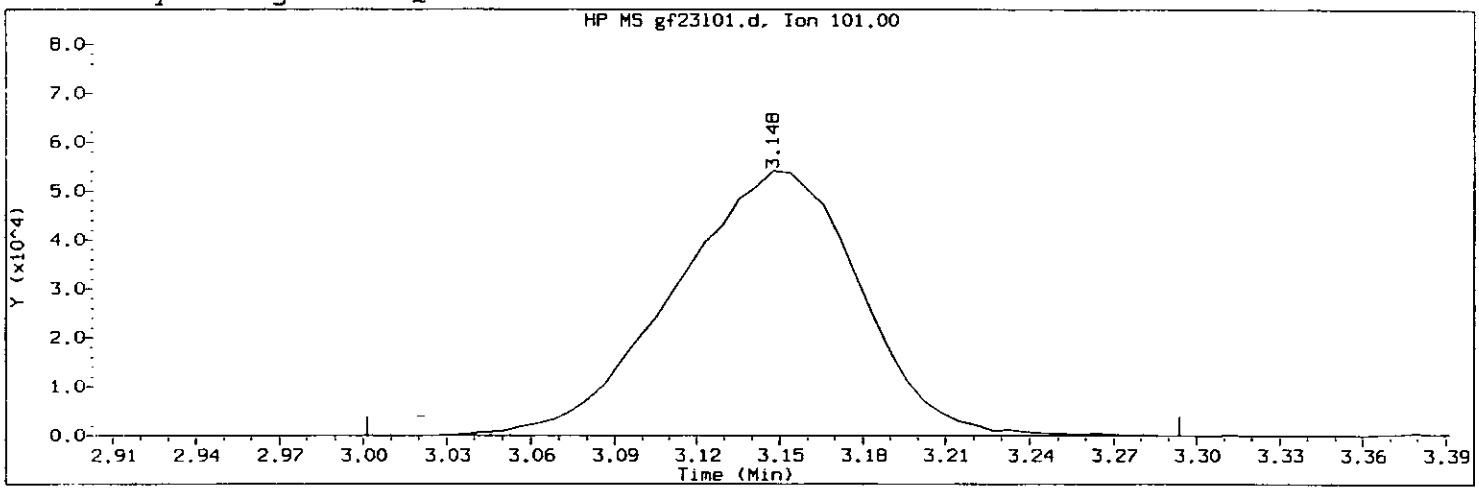
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:47 jml01693

Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 256
Retention Time (minutes): 3.148
Quant Ion : 101
Area (flag) : 251927 M
Concentration (ug/L) : 1.9282
Integration start scan : 231 Integration stop scan: 279
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

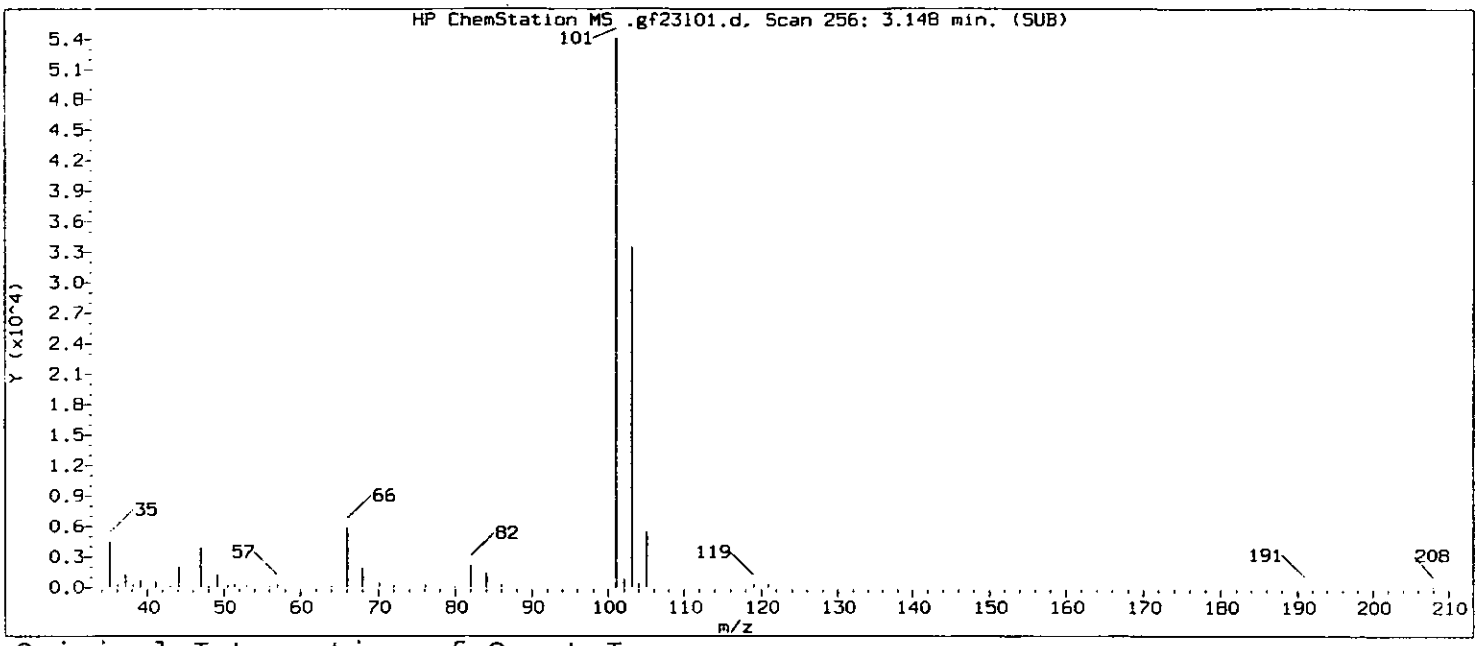
Analyst responsible for change: 3/23/10

GC/MS audit/management approval: 3/24/10

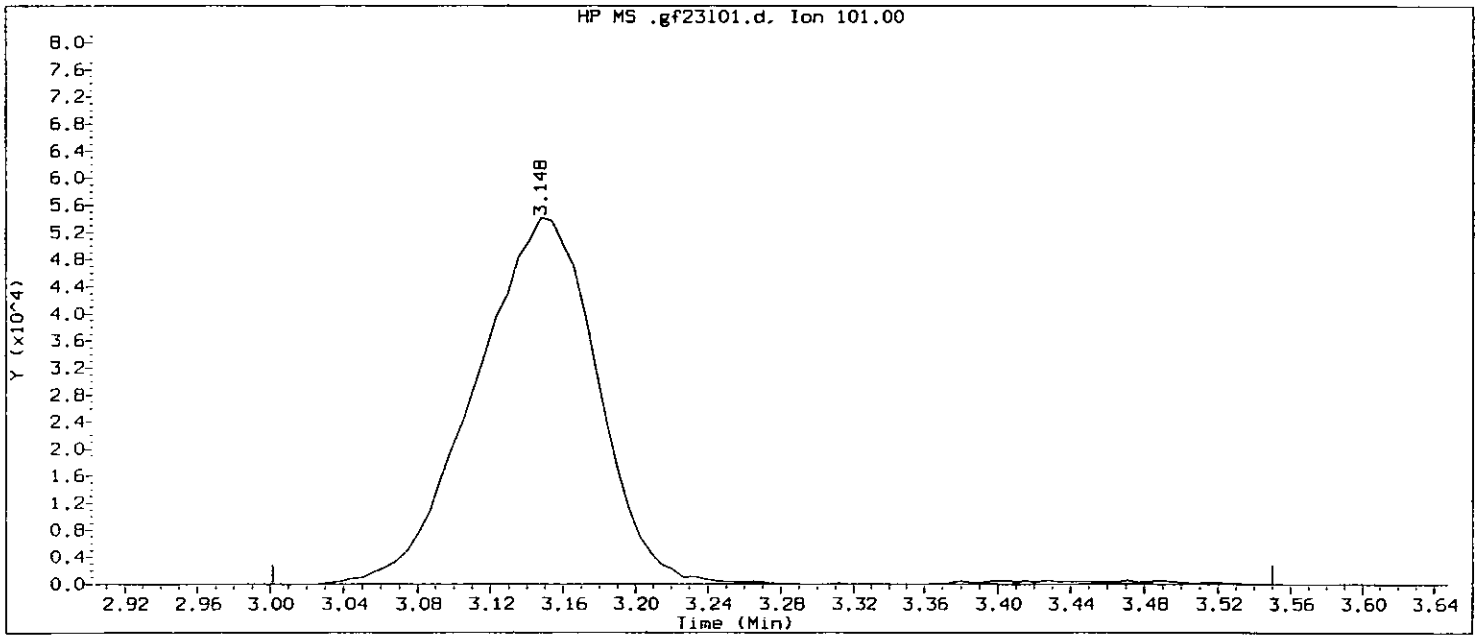
WAT11 0174

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:44 Automation

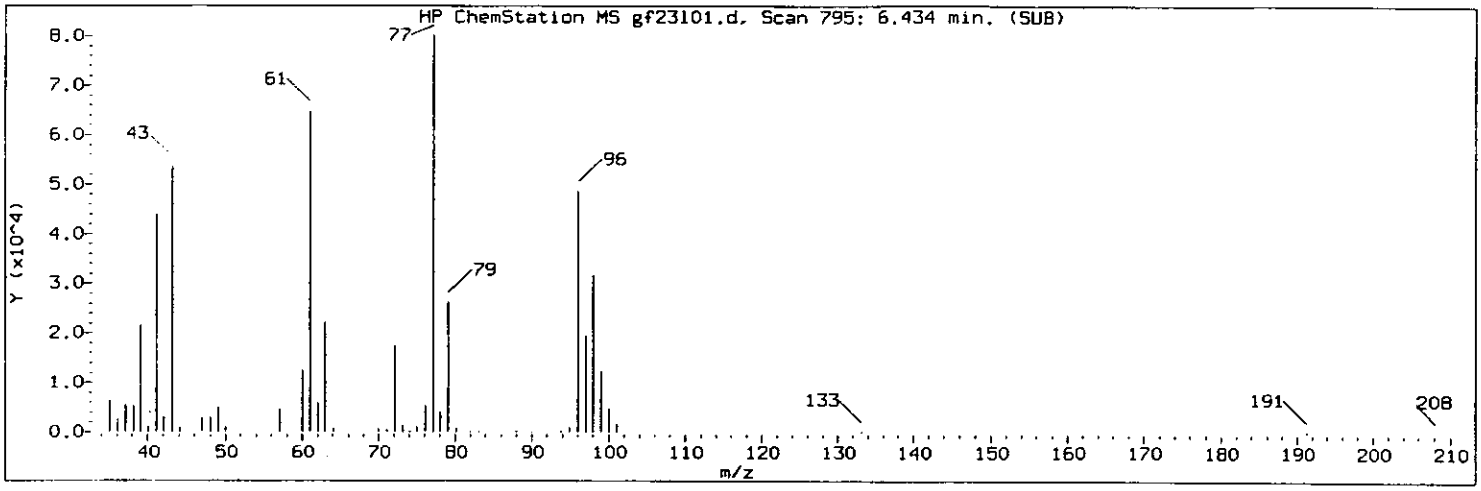
Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number	: 7
Compound Name	: Trichlorofluoromethane
Scan Number	: 256
Retention Time (minutes)	: 3.148
Quant Ion	: 101
Area	: 255681
Concentration (ug/L)	: 1.9569
Integration start scan	: 231 Integration stop scan: 321
Y at integration start	: 0 Y at integration end: 0

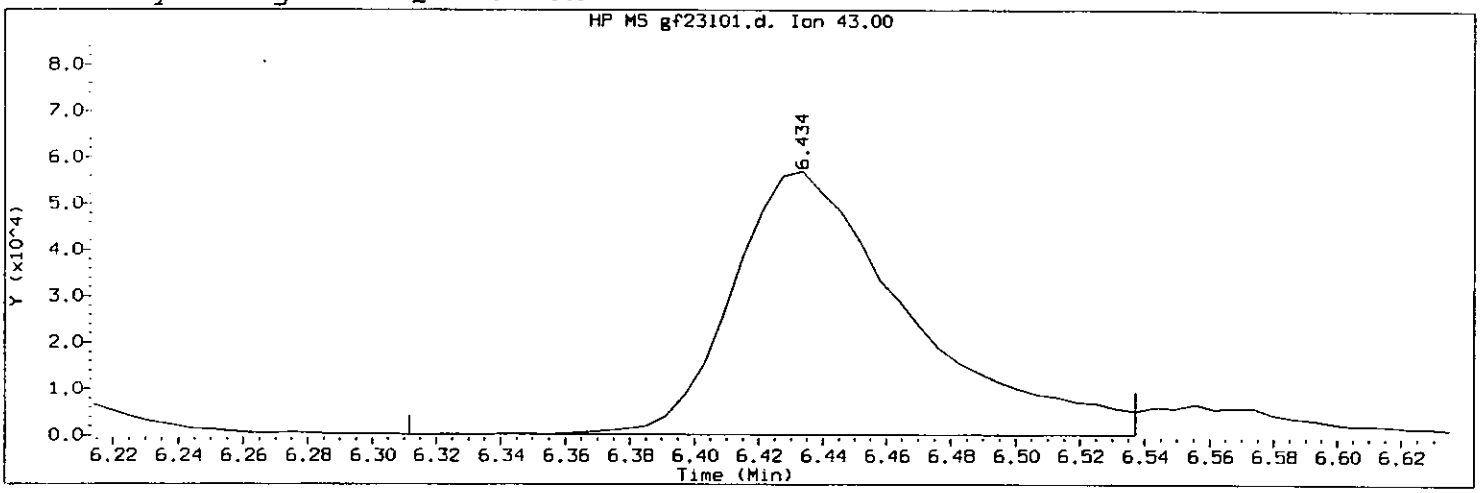
WAT11 0175

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:47 jml01693

Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number	:	28
Compound Name	:	2-Butanone
Scan Number	:	795
Retention Time (minutes)	:	6.434
Quant Ion	:	43
Area (flag)	:	218957 M
Concentration (ug/L)	:	36.0432
Integration start scan	:	774 Integration stop scan: 811
Y at integration start	:	266 Y at integration end: 266

Reason for manual integration (circle one): missed peak improper integration

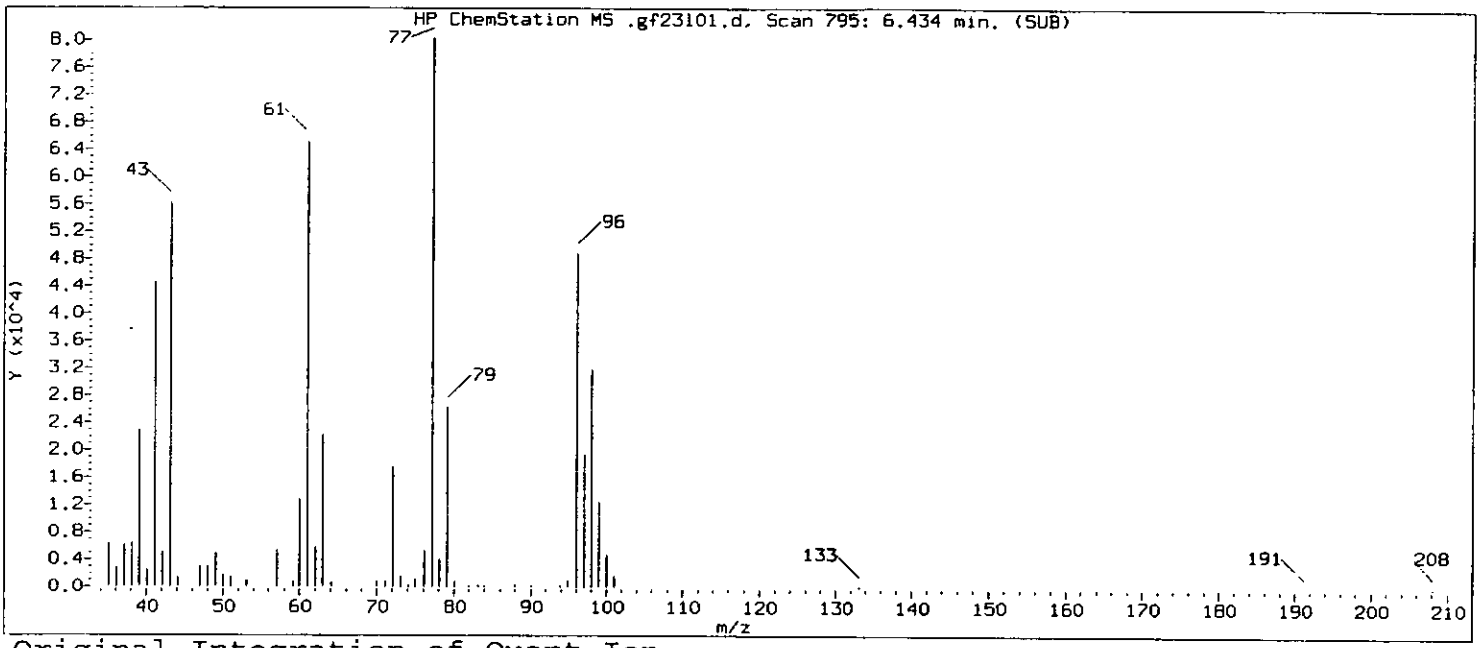
Analyst responsible for change: JML 3/23/10

GC/MS audit/management approval: [signature] 3/24/10

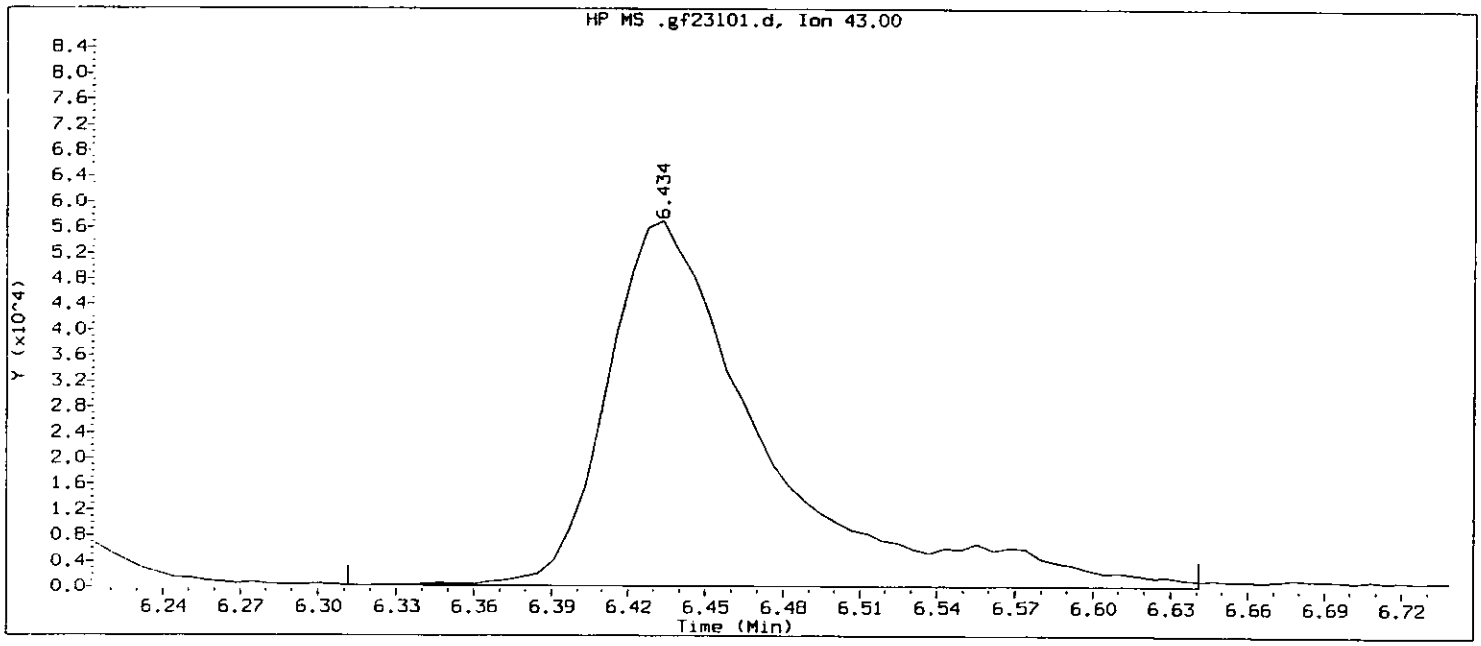
WAT11 8176

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:44 Automation

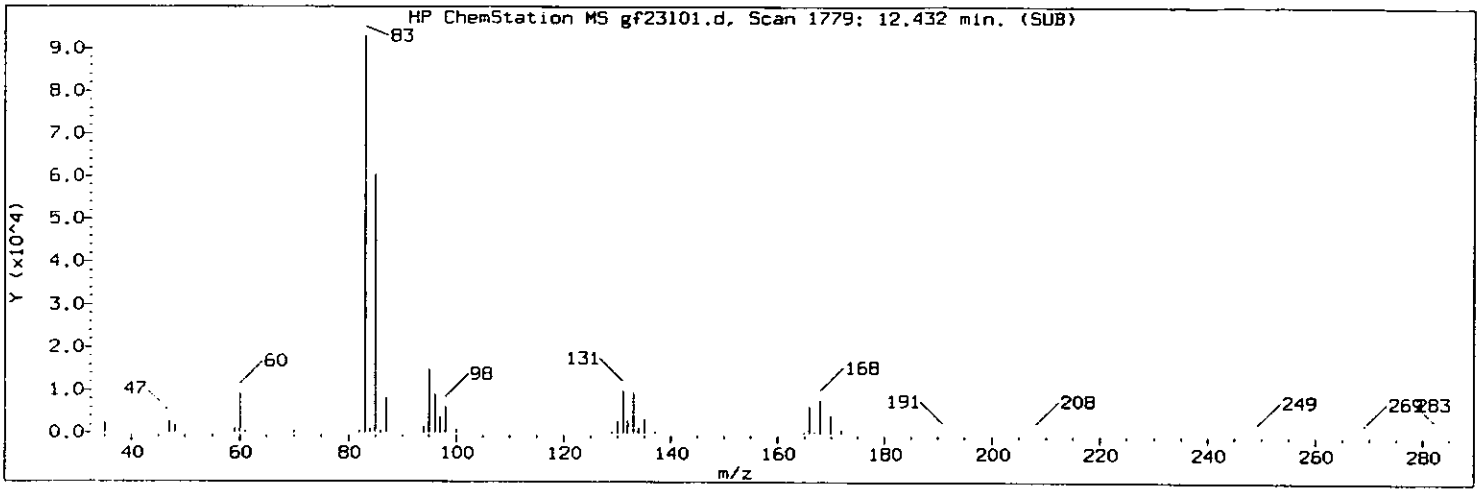
Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number	: 28
Compound Name	: 2-Butanone
Scan Number	: 795
Retention Time (minutes)	: 6.434
Quant Ion	: 43
Area	: 241777
Concentration (ug/L)	: 39.7998
Integration start scan	: 774 Integration stop scan: 828
Y at integration start	: 181 Y at integration end: 210

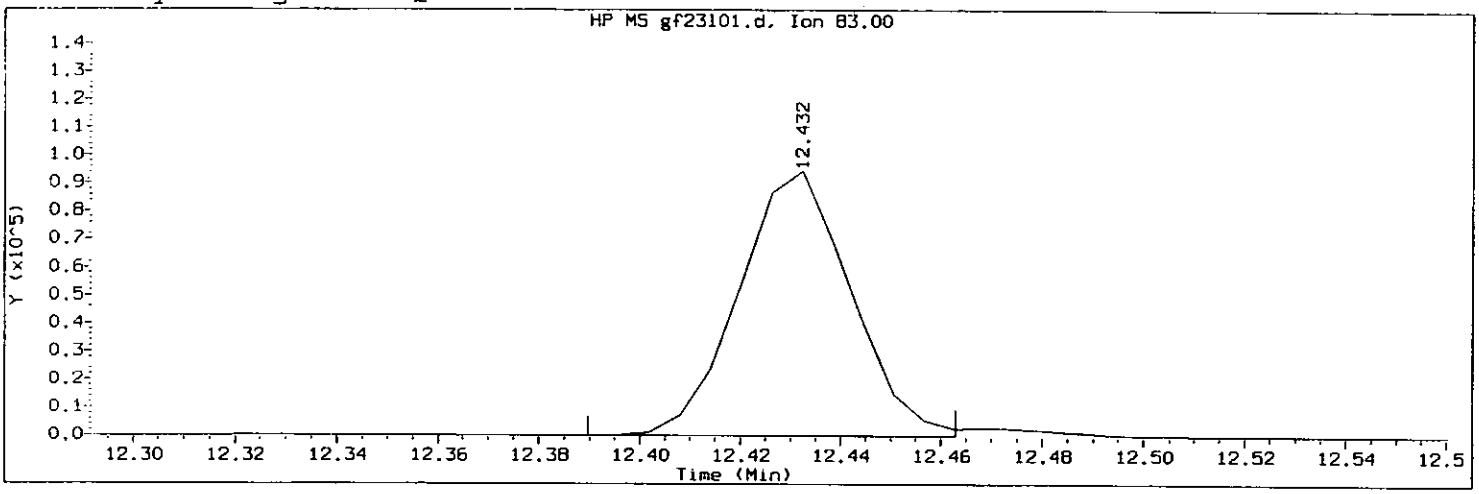
WAT11 0177

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:47 jml01693

Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area (flag)	:	146227 M
Concentration (ug/L)	:	4.7452
Integration start scan	:	1771 Integration stop scan: 1783
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

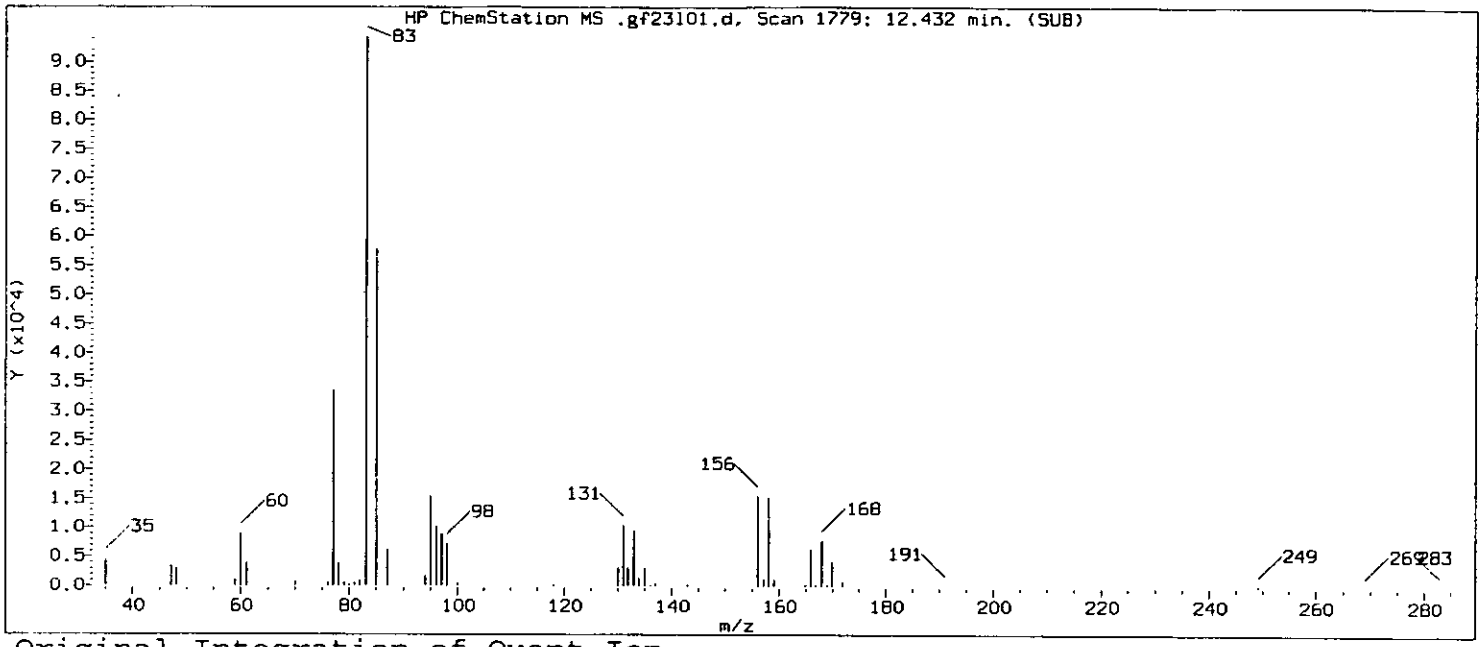
Analyst responsible for change: jml693 3/23/10

GC/MS audit/management approval: 3/24/10

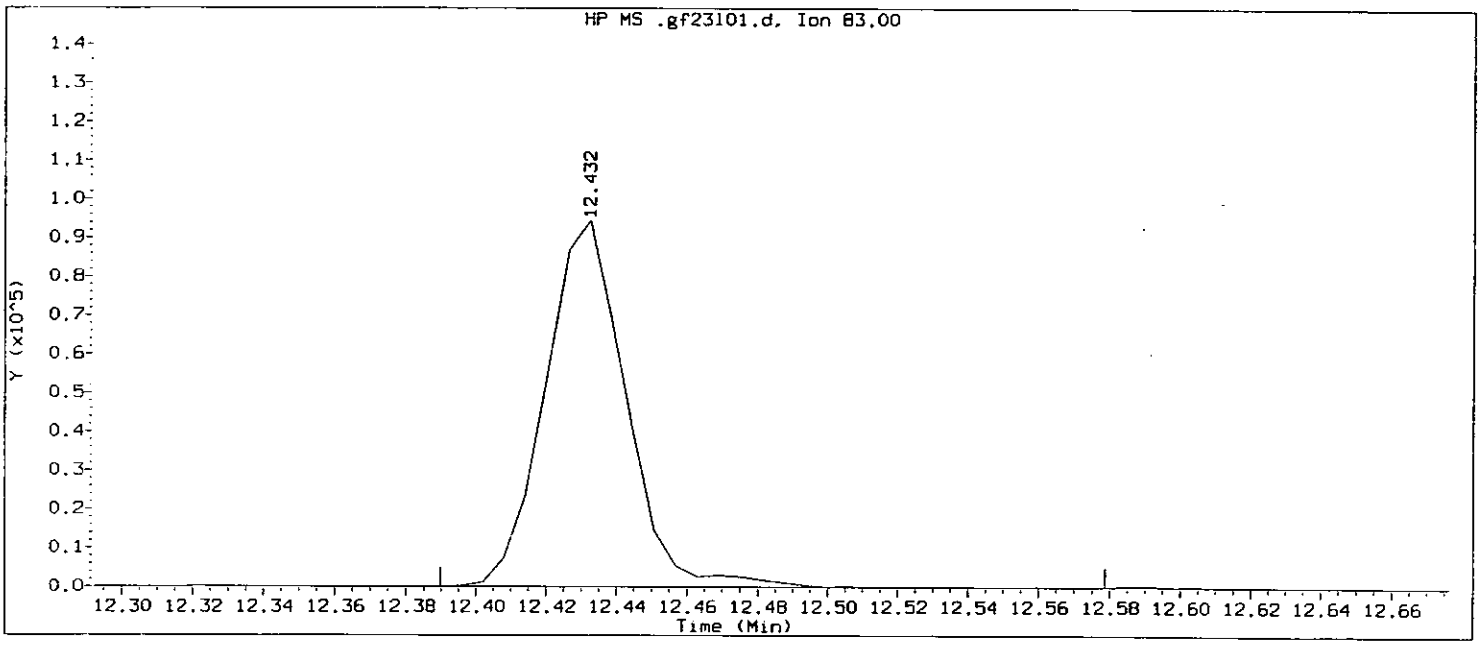
WAT11 0178

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:44 Automation

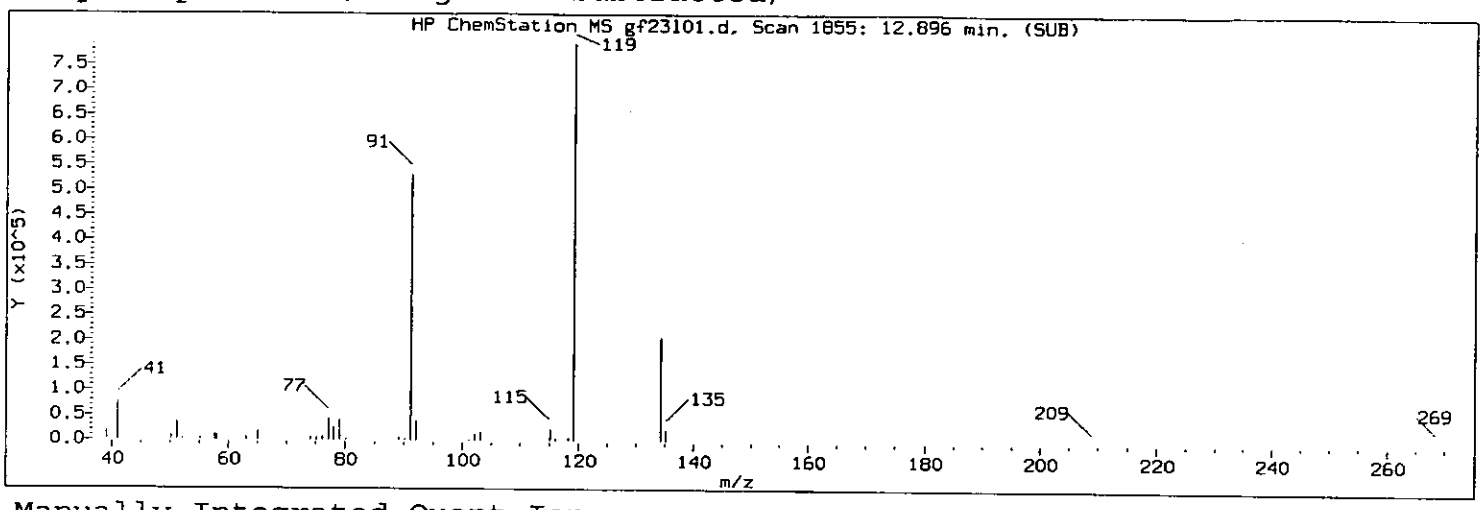
Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1779
Retention Time (minutes): 12.432
Quant Ion : 83
Area : 149540
Concentration (ug/L) : 4.8528
Integration start scan : 1771 Integration stop scan: 1802
Y at integration start : 0 Y at integration end: 0

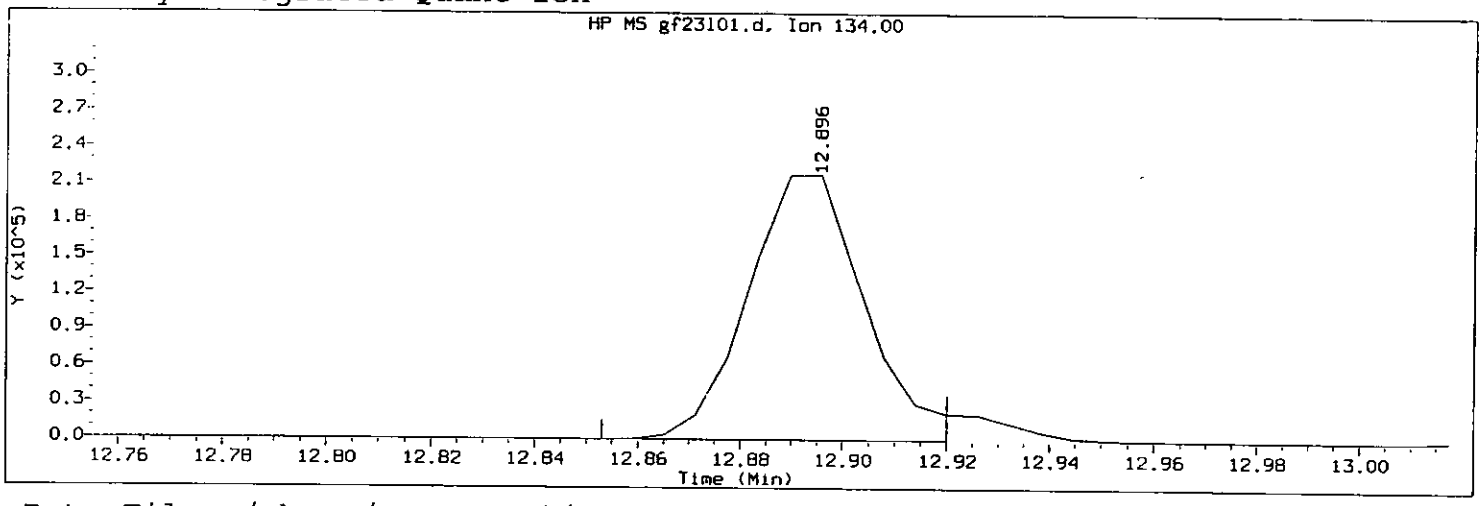
WAT11 8179

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:47 jml01693

Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.896
Quant Ion	:	134
Area (flag)	:	343465 M
Concentration (ug/L)	:	4.8372
Integration start scan	:	1847 Integration stop scan: 1858
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

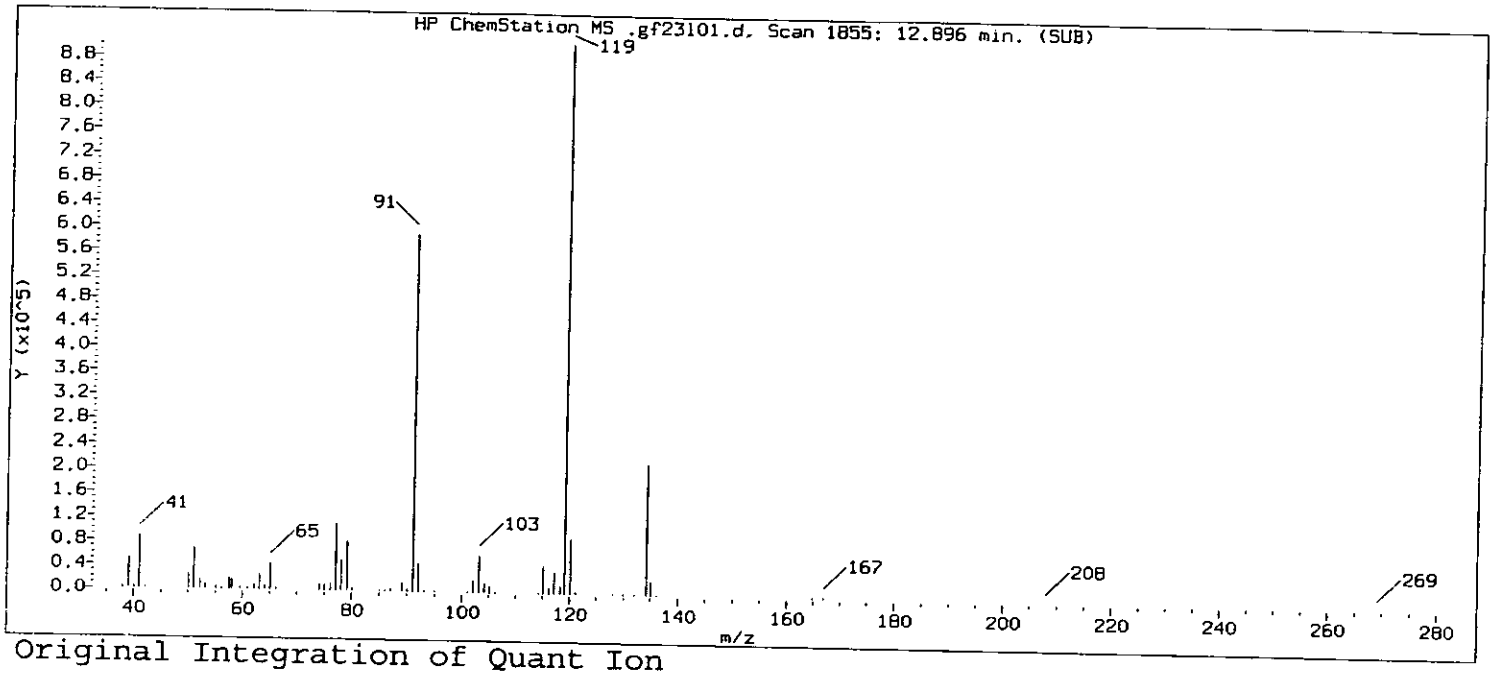
Analyst responsible for change: _____ 3/23/10

GC/MS audit/management approval: _____ 3/24/10

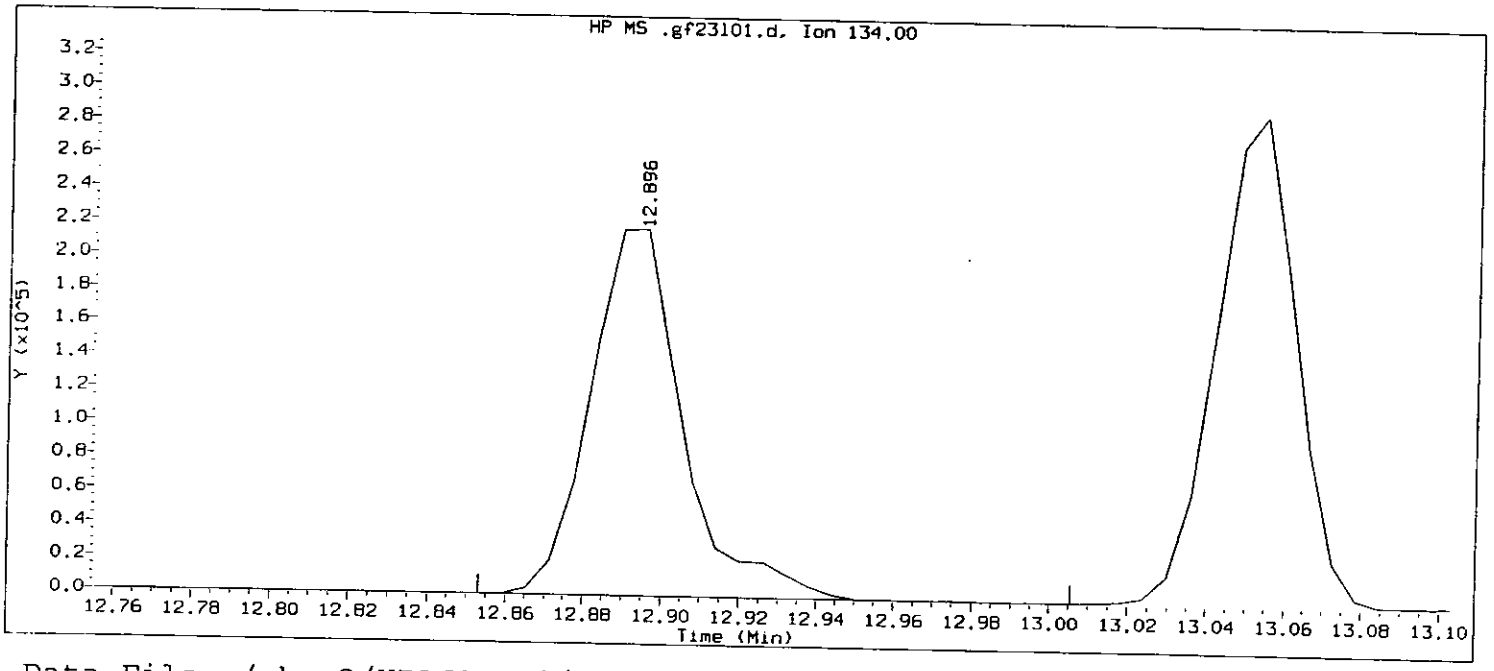
WAT11 6188

Manual Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar23a.b/gf23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2010 15:27 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2010 15:43
Date, time and analyst ID of latest file update: 23-Mar-2010 15:44 Automation

Sample Name: LFBG37 Lab Sample ID: LFBG37

Compound Number	: 82
Compound Name	: tert-Butylbenzene
Scan Number	: 1855
Retention Time (minutes)	: 12.896
Quant Ion	: 134
Area	: 359831
Concentration (ug/L)	: 5.0677
Integration start scan	: 1847 Integration stop scan: 1872
Y at integration start	: 0 Y at integration end: 0

WAT11 0181

Original Integration Report for data file /chem2/HP16334.i/10mar23a.b/gf23101.d, generated on 03/23/2010 at 15:47

EPA Method 524
Continuing Calibration Internal/Surrogate Standard Check

Initial Calibration Standards:

/chem2/HP16334.i/10mar23a.b/gm23i01.d VSTD025
** /chem2/HP16334.i/10mar23a.b/gm23i02.d VSTD010
/chem2/HP16334.i/10mar23a.b/gm23i03.d VSTD005
/chem2/HP16334.i/10mar23a.b/gm23i04.d VSTD0.5

** File is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem2/HP16334.i/10mar25a.b/gm25c01.d

RT Summary

Internal/Surrogate Standard Name	File ID: gm25c01.d	ICAL RT	In Spec
Fluorobenzene	7.988	7.988	Yes
4-Bromofluorobenzene	12.329	12.329	Yes
1,2-Dichlorobenzene-d4	13.475	13.475	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal/Surrogate Standard Name	File ID: gm25c01.d	ICAL Area	Low Limit	High Limit	In Spec
Fluorobenzene	1925056	1799171	899586	3598342	Yes
4-Bromofluorobenzene	545351	471690	235845	943380	Yes
1,2-Dichlorobenzene-d4	553910	454214	227107	908428	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:

/chem2/HP16334.i/10mar25a.b/gm25c01.d

Previous Continuing Calibration Standard:

/chem2/HP16334.i/10mar24b.b/gm24c02.d

RT Summary

Internal/Surrogate Standard Name	File ID: gm25c01.d	Previous CCAL RT	In Spec
Fluorobenzene	7.988	7.976	Yes
4-Bromofluorobenzene	12.329	12.329	Yes
1,2-Dichlorobenzene-d4	13.475	13.475	Yes

A "No" indicates the retention time is greater than 30 seconds from the average RT.

Area Summary

Internal/Surrogate Standard Name	File ID: gm25c01.d	Previous CCAL Area	Low Limit	In Spec
Fluorobenzene	1925056	1733471	1213430	Yes
4-Bromofluorobenzene	545351	482626	337838	Yes
1,2-Dichlorobenzene-d4	553910	495796	347057	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

_____

Report generated on 03/25/2010 at 10:02

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date: 03/25/10 Time: 09:39

Lab File ID: gm25c01.d Init. Calib. Date(s): 03/23/2010 03/23/2010

COMPOUND	RRF	RRF10	%D	CALIB METH
Dichlorodifluoromethane	0.3482	0.3421	-2	AVG
Chloromethane	0.1143	0.1146	0	AVG
Vinyl Chloride	0.1109	0.1110	0	AVG
Bromomethane	0.0968	0.0942	-3	AVG
Chloroethane	0.0643	0.0633	-2	AVG
Dichlorofluoromethane	0.2183	0.2166	-1	AVG
Trichlorofluoromethane	0.3505	0.3677	5	AVG
Ethyl Ether	0.0737	0.0737	0	AVG
Acrolein	0.0089	0.0089	0	AVG
1,1-Dichloroethene	0.1775	0.1739	-2	AVG
Freon 113	0.2021	0.2068	2	AVG
Acetone	0.0034	0.0034	0	AVG
Methyl Iodide	0.3508	0.3435	-2	AVG
Carbon Disulfide	0.4343	0.4460	3	AVG
Allyl Chloride	0.1524	0.1484	-3	AVG
Methylene Chloride	0.1738	0.1628	-6	AVG
t-Butyl Alcohol	0.0033	0.0028	-14	AVG
Acrylonitrile	0.0146	0.0154	5	AVG
trans-1,2-Dichloroethene	0.2079	0.1989	-4	AVG
Methyl Tertiary Butyl Ether	0.2457	0.2273	-7	AVG
1,1-Dichloroethane	0.3340	0.3151	-6	AVG
di-Isopropyl Ether	0.1378	0.1291	-6	AVG
Ethyl t-Butyl Ether	0.3457	0.3158	-9	AVG
cis-1,2-Dichloroethene	0.2031	0.1933	-5	AVG
2,2-Dichloropropane	0.2816	0.2806	0	AVG
2-Butanone	0.0163	0.0157	-4	AVG
Propionitrile	0.0058	0.0059	1	AVG
Methyl Acrylate	0.0505	0.0498	-1	AVG
Methacrylonitrile	0.0224	0.0223	-1	AVG
Bromochloromethane	0.0664	0.0662	0	AVG
Tetrahydrofuran	0.0054	0.0053	-3	AVG
Chloroform	0.3395	0.3407	0	AVG
1,1,1-Trichloroethane	0.3184	0.3249	2	AVG
1-Chlorobutane	0.0142	0.0156	10	AVG
Carbon Tetrachloride	0.2814	0.2994	6	AVG
1,1-Dichloropropene	0.2765	0.2717	-2	AVG
Benzene	0.7793	0.7536	-3	AVG
1,2-Dichloroethane	0.1542	0.1578	2	AVG
t-Amyl Methyl Ether	0.2684	0.2497	-7	AVG
Trichloroethene	0.2278	0.2248	-1	AVG

WAT11 #184

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date: 03/25/10 Time: 09:39

Lab File ID: gm25c01.d Init. Calib. Date(s): 03/23/2010 03/23/2010

COMPOUND	RRF	RRF10	%D	CALIB METH
1,2-Dichloropropane	0.1618	0.1552	-4	AVG
Methyl Methacrylate	0.0422	0.0392	-7	AVG
Dibromomethane	0.0625	0.0634	2	AVG
Bromodichloromethane	0.1811	0.1873	3	AVG
2-Nitropropane	0.0005	0.0006	23	AVG
Chloroacetonitrile	0.0022	0.0024	7	AVG
cis-1,3-Dichloropropene	0.2099	0.2092	0	AVG
4-Methyl-2-Pentanone	0.0181	0.0178	-2	AVG
1,1-Dichloropropanone	0.0010	0.0011	13	AVG
Toluene	0.5012	0.5002	0	AVG
trans-1,3-Dichloropropene	0.1470	0.1539	5	AVG
Ethyl Methacrylate	0.0953	0.0906	-5	AVG
1,1,2-Trichloroethane	0.0725	0.0734	1	AVG
Tetrachloroethene	0.2597	0.2671	3	AVG
1,3-Dichloropropane	0.1485	0.1489	0	AVG
2-Hexanone	0.0160	0.0160	0	AVG
Dibromochloromethane	0.1001	0.1062	6	AVG
1,2-Dibromoethane	0.0795	0.0813	2	AVG
Chlorobenzene	0.5322	0.5358	1	AVG
1,1,1,2-Tetrachloroethane	0.1668	0.1779	7	AVG
Ethylbenzene	0.3174	0.3242	2	AVG
m+p-Xylene	0.3798	0.3932	4	AVG
o-Xylene	0.3556	0.3652	3	AVG
Styrene	0.5140	0.5445	6	AVG
Bromoform	0.0472	0.0523	11	AVG
Isopropylbenzene	0.2618	0.2743	5	AVG
1,1,2,2-Tetrachloroethane	0.0827	0.0868	5	AVG
Bromobenzene	0.1980	0.2061	4	AVG
1,2,3-Trichloropropane	0.0239	0.0254	6	AVG
trans-1,4-Dichloro-2-Butene	0.0144	0.0130	-10	AVG
n-Propylbenzene	0.2883	0.3018	5	AVG
2-Chlorotoluene	0.2368	0.2475	4	AVG
1,3,5-Trimethylbenzene	0.8855	0.9311	5	AVG
4-Chlorotoluene	0.2369	0.2519	6	AVG
tert-Butylbenzene	0.1905	0.2001	5	AVG
Pentachloroethane	0.1138	0.1269	11	AVG
1,2,4-Trimethylbenzene	0.8646	0.9282	7	AVG
sec-Butylbenzene	0.2325	0.2500	8	AVG
p-Isopropyltoluene	0.9763	1.0560	8	AVG
1,3-Dichlorobenzene	0.4208	0.4551	8	AVG

WAT11 0185

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date: 03/25/10 Time: 09:39

Lab File ID: gm25c01.d Init. Calib. Date(s): 03/23/2010 03/23/2010

COMPOUND	RRF	RRF10	%D	CALIB METH
1,4-Dichlorobenzene	0.4252	0.4508	6	AVG
n-Butylbenzene	0.4913	0.5316	8	AVG
1,2-Dichlorobenzene	0.3358	0.3607	7	AVG
Hexachloroethane	0.1377	0.1576	14	AVG
1,2-Dibromo-3-Chloropropane	0.0135	0.0148	10	AVG
1,2,4-Trichlorobenzene	0.2729	0.3040	11	AVG
Hexachlorobutadiene	0.2277	0.2495	10	AVG
Naphthalene	0.3033	0.3349	10	AVG
1,2,3-Trichlorobenzene	0.2054	0.2254	10	AVG
4-Bromofluorobenzene	0.2650	0.2833	7	AVG
1,2-Dichlorobenzene-d4	0.2575	0.2877	12	AVG

Average %Difference 5

WAT11 0186

Lancaster Laboratories

GC/MS Volatiles Method 524.2 Check Sample Summary

File: gm25c01.d Injected: 03/25/10 Method: EPA 524.2 REV 4

Inst: HP16334 Sample: VSTD010 Matrix/level: W/L

COMPOUND NAME	CONCENTRATION SPIKED (UG/L)	CONCENTRATION MEASURED (UG/L)	% RECOVERY	IN SPEC
Dichlorodifluoromethane	10.000	9.825	98	YES
Chloromethane	10.000	10.023	100	YES
Vinyl Chloride	10.000	10.008	100	YES
Bromomethane	10.000	9.728	97	YES
Chloroethane	10.000	9.848	98	YES
Dichlorofluoromethane	10.000	9.923	99	YES
Trichlorofluoromethane	10.000	10.490	105	YES
Ethyl Ether	10.000	10.004	100	YES
Acrolein	500.000	497.667	100	YES
1,1-Dichloroethene	10.000	9.797	98	YES
Freon 113	10.000	10.234	102	YES
Acetone	100.000	100.639	101	YES
Methyl Iodide	10.000	9.792	98	YES
Carbon Disulfide	10.000	10.270	103	YES
Allyl Chloride	10.000	9.743	97	YES
Methylene Chloride	10.000	9.363	94	YES
t-Butyl Alcohol	200.000	170.671	85	YES
Acrylonitrile	124.800	131.196	105	YES
trans-1,2-Dichloroethene	10.000	9.565	96	YES
Methyl Tertiary Butyl Ether	10.000	9.253	93	YES
1,1-Dichloroethane	10.000	9.432	94	YES
di-Isopropyl Ether	10.000	9.369	94	YES
Ethyl t-Butyl Ether	10.000	9.135	91	YES
cis-1,2-Dichloroethene	10.000	9.518	95	YES
2,2-Dichloropropane	10.000	9.967	100	YES
2-Butanone	100.000	96.328	96	YES
Propionitrile	200.000	201.471	101	YES
Methyl Acrylate	50.000	49.292	99	YES
Methacrylonitrile	100.000	99.602	100	YES
Bromochloromethane	10.000	9.965	100	YES
Tetrahydrofuran	140.000	136.359	97	YES
Chloroform	10.000	10.038	100	YES
1,1,1-Trichloroethane	10.000	10.205	102	YES
1-Chlorobutane	10.000	10.983	110	YES
Carbon Tetrachloride	10.000	10.638	106	YES
1,1-Dichloropropene	10.000	9.825	98	YES
Benzene	10.000	9.671	97	YES
1,2-Dichloroethane	10.000	10.231	102	YES
t-Amyl Methyl Ether	10.000	9.304	93	YES

Lancaster Laboratories
GC/MS Volatiles Method 524.2 Check Sample Summary

File: gm25c01.d Injected: 03/25/10 Method: EPA 524.2 REV 4
Inst: HP16334 Sample: VSTD010 Matrix/level: W/L

COMPOUND NAME	CONCENTRATION SPIKED (UG/L)	CONCENTRATION MEASURED (UG/L)	% RECOVERY	IN SPEC
Trichloroethene	10.000	9.871	99	YES
1,2-Dichloropropane	10.000	9.587	96	YES
Methyl Methacrylate	10.000	9.285	93	YES
Dibromomethane	10.000	10.158	102	YES
Bromodichloromethane	10.000	10.342	103	YES
2-Nitropropane	1050.00	1258.67	120	YES
Chloroacetonitrile	500.000	537.430	107	YES
cis-1,3-Dichloropropene	10.000	9.967	100	YES
4-Methyl-2-Pentanone	100.000	98.124	98	YES
1,1-Dichloropropanone	1000.00	1122.98	112	YES
Toluene	10.000	9.980	100	YES
trans-1,3-Dichloropropene	10.000	10.469	105	YES
Ethyl Methacrylate	10.000	9.503	95	YES
1,1,2-Trichloroethane	10.000	10.125	101	YES
Tetrachloroethene	10.000	10.285	103	YES
1,3-Dichloropropane	10.000	10.027	100	YES
2-Hexanone	100.000	100.102	100	YES
Dibromochloromethane	10.000	10.608	106	YES
1,2-Dibromoethane	10.000	10.224	102	YES
Chlorobenzene	10.000	10.067	101	YES
1,1,1,2-Tetrachloroethane	10.000	10.664	107	YES
Ethylbenzene	10.000	10.217	102	YES
m+p-Xylene	20.000	20.705	104	YES
o-Xylene	10.000	10.271	103	YES
Styrene	10.000	10.593	106	YES
Bromoform	10.000	11.097	111	YES
Isopropylbenzene	10.000	10.479	105	YES
1,1,2,2-Tetrachloroethane	10.000	10.495	105	YES
Bromobenzene	10.000	10.411	104	YES
1,2,3-Trichloropropane	10.000	10.595	106	YES
trans-1,4-Dichloro-2-Butene	100.000	90.099	90	YES
n-Propylbenzene	10.000	10.469	105	YES
2-Chlorotoluene	10.000	10.450	105	YES
1,3,5-Trimethylbenzene	10.000	10.515	105	YES
4-Chlorotoluene	10.000	10.635	106	YES
tert-Butylbenzene	10.000	10.506	105	YES
Pentachloroethane	10.000	11.149	111	YES
1,2,4-Trimethylbenzene	10.000	10.736	107	YES
sec-Butylbenzene	10.000	10.751	108	YES

WAT11 0188

Lancaster Laboratories
GC/MS Volatiles Method 524.2 Check Sample Summary

File: gm25c01.d Injected: 03/25/10 Method: EPA 524.2 REV 4
Inst: HP16334 Sample: VSTD010 Matrix/level: W/L

COMPOUND NAME	CONCENTRATION SPIKED (UG/L)	CONCENTRATION MEASURED (UG/L)	% RECOVERY	IN SPEC
p-Isopropyltoluene	10.000	10.817	108	YES
1,3-Dichlorobenzene	10.000	10.815	108	YES
1,4-Dichlorobenzene	10.000	10.601	106	YES
n-Butylbenzene	10.000	10.821	108	YES
1,2-Dichlorobenzene	10.000	10.740	107	YES
Hexachloroethane	10.000	11.447	114	YES
1,2-Dibromo-3-Chloropropane	10.000	10.943	109	YES
1,2,4-Trichlorobenzene	10.000	11.140	111	YES
Hexachlorobutadiene	10.000	10.959	110	YES
Naphthalene	10.000	11.042	110	YES
1,2,3-Trichlorobenzene	10.000	10.978	110	YES
4-Bromofluorobenzene	5.000	5.345	107	YES
1,2-Dichlorobenzene-d4	5.000	5.588	112	YES

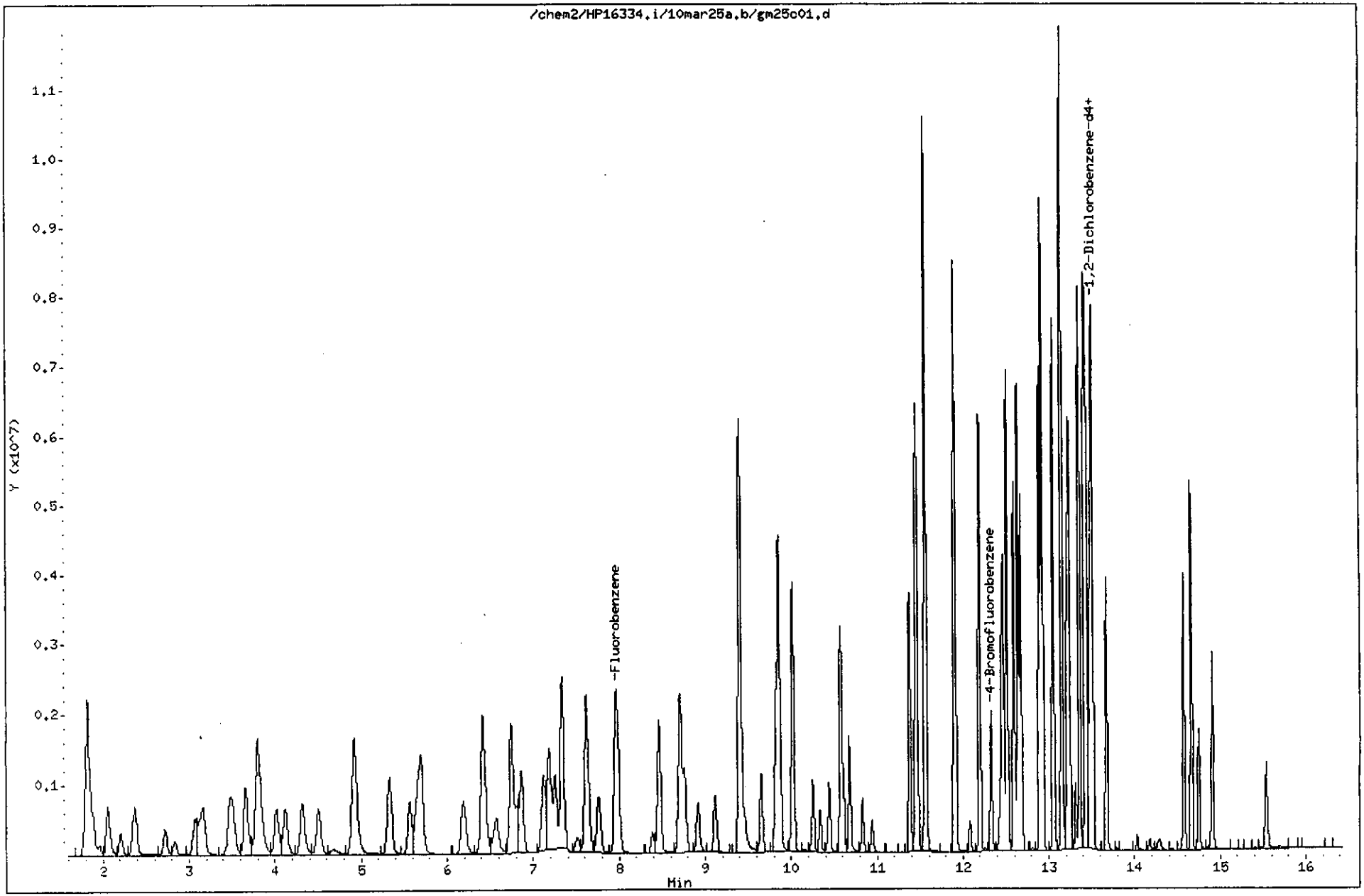
WAT11 0189

Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d
Date : 25-MAR-2010 09:39
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;2;;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25

WAT11 8196



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 10:01 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.050	85	1317230	9.825
2) Chloromethane	(1)	2.203	50	441159	10.023
3) Vinyl Chloride	(1)	2.343	62	427272	10.008
4) Bromomethane	(1)	2.721	94	362540	9.728
5) Chloroethane	(1)	2.831	64	243716	9.848
6) Dichlorofluoromethane	(1)	3.068	67	833980	9.923
7) Trichlorofluoromethane	(1)	3.160	101	1415639	10.490
8) Ethyl Ether	(1)	3.465	59	283865	10.004
9) Acrolein	(1)	3.660	56	1711489	497.667
10) 1,1-Dichloroethene	(1)	3.794	96	669670	9.797
11) Freon 113	(1)	3.818	101	796315	10.234
12) Acetone	(1)	3.867	58	131391	100.639
13) Methyl Iodide	(1)	4.019	142	1322329	9.792
14) Carbon Disulfide	(1)	4.117	76	1717215	10.270
15) Allyl Chloride	(1)	4.312	39	571490	9.743
17) Methylene Chloride	(1)	4.501	84	626645	9.363
18) t-Butyl Alcohol	(1)	4.678	59	217302	170.671
19) Acrylonitrile	(1)	4.903	53	739002	131.196
20) trans-1,2-Dichloroethene	(1)	4.928	96	765616	9.565
21) Methyl Tertiary Butyl Ether	(1)	4.928	73	875142	9.253
22) 1,1-Dichloroethane	(1)	5.568	63	1212990	9.432
24) di-Isopropyl Ether	(1)	5.659	87	496880M	9.369
25) Ethyl t-Butyl Ether	(1)	6.190	59	1215866	9.135
26) cis-1,2-Dichloroethene	(1)	6.415	96	744318	9.518
27) 2,2-Dichloropropane	(1)	6.415	77	1080509	9.967
28) 2-Butanone	(1)	6.440	43	604407M	96.328
29) Propionitrile	(1)	6.543	54	451032	201.471
30) Methyl Acrylate	(1)	6.574	55	959324	49.292
31) Methacrylonitrile	(1)	6.744	67	857632	99.602
32) Bromochloromethane	(1)	6.757	128	254763	9.965
33) Tetrahydrofuran	(1)	6.811	71	283498	136.359
34) Chloroform	(1)	6.866	83	1311853	10.038
35) 1,1,1-Trichloroethane	(1)	7.116	97	1250955	10.205
36) 1-Chlorobutane	(1)	7.250	49	60251	10.983

M = Compound was manually integrated.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 10:01 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
37) Carbon Tetrachloride	(1)	7.342	117	1152719	10.638
38) 1,1-Dichloropropene	(1)	7.336	75	1045917	9.825
39) Benzene	(1)	7.616	78	2901558	9.671
40) 1,2-Dichloroethane	(1)	7.647	62	607400	10.231
41) t-Amyl Methyl Ether	(1)	7.763	73	961381	9.304
42) *Fluorobenzene	(1)	7.988	96	1925056	5.000
43) Trichloroethene	(1)	8.470	95	865695	9.871
44) 1,2-Dichloropropane	(1)	8.762	63	597364	9.587
45) Methyl Methacrylate	(1)	8.915	69	150833	9.285
46) Dibromomethane	(1)	8.921	93	244271	10.158
47) Bromodichloromethane	(1)	9.122	83	721072	10.342
48) 2-Nitropropane	(1)	9.409	46	248386	1258.670
49) Chloroacetonitrile	(1)	9.463	75	453677	537.430
50) cis-1,3-Dichloropropene	(1)	9.658	75	805382	9.967
51) 4-Methyl-2-Pentanone	(1)	9.829	58	684830	98.124
52) 1,1-Dichloropropanone	(1)	9.866	83	436224	1122.982
53) Toluene	(1)	10.024	92	1925889	9.980
55) trans-1,3-Dichloropropene	(1)	10.256	75	592370	10.469
56) Ethyl Methacrylate	(1)	10.341	69	348780	9.503
57) 1,1,2-Trichloroethane	(1)	10.445	83	282498	10.125
58) Tetrachloroethene	(1)	10.579	166	1028188	10.285
59) 1,3-Dichloropropane	(1)	10.610	76	573210	10.027
60) 2-Hexanone	(1)	10.683	58	617083	100.102
61) Dibromochloromethane	(1)	10.829	129	408816	10.608
62) 1,2-Dibromoethane	(1)	10.945	107	312999	10.224
64) Chlorobenzene	(1)	11.384	112	2062830	10.067
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	684751	10.664
66) Ethylbenzene	(1)	11.469	106	1248353	10.217
67) m+p-Xylene	(1)	11.567	106	3027540	20.705
68) o-Xylene	(1)	11.902	106	1406069	10.271
69) Styrene	(1)	11.914	104	2096270	10.593
71) Bromoform	(1)	12.085	173	201516	11.097
72) Isopropylbenzene	(1)	12.201	120	1056172	10.479
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	334026M	10.495

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 10:01 jml01693

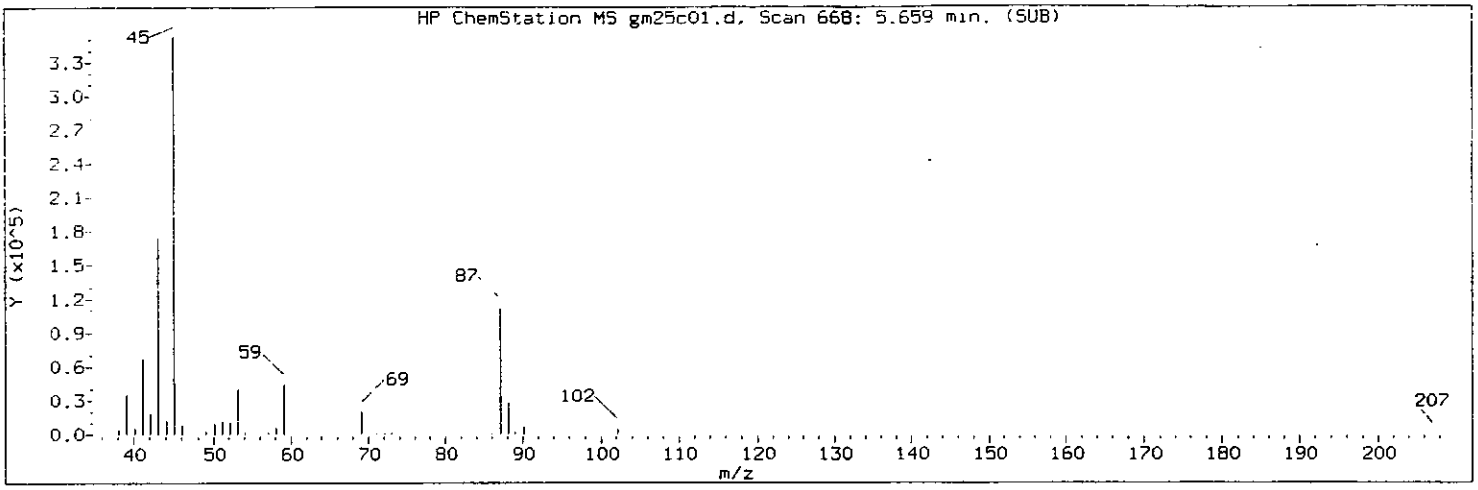
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
75) Bromobenzene	(1)	12.457	156	793494	10.411
76) 1,2,3-Trichloropropane	(1)	12.475	110	97671	10.595
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	499400	90.099
78) n-Propylbenzene	(1)	12.518	120	1162098	10.469
79) 2-Chlorotoluene	(1)	12.597	126	952725	10.450
80) 1,3,5-Trimethylbenzene	(1)	12.646	105	3584717	10.515
81) 4-Chlorotoluene	(1)	12.676	126	969960	10.635
82) tert-Butylbenzene	(1)	12.896	134	770474M	10.506
83) Pentachloroethane	(1)	12.926	167	488461	11.149
84) 1,2,4-Trimethylbenzene	(1)	12.926	105	3573633	10.736
85) sec-Butylbenzene	(1)	13.054	134	962532	10.751
86) p-Isopropyltoluene	(1)	13.152	119	4065784	10.817
87) 1,3-Dichlorobenzene	(1)	13.158	146	1752216	10.815
88) 1,4-Dichlorobenzene	(1)	13.219	146	1735606	10.601
89) n-Butylbenzene	(1)	13.444	92	2046783	10.821
91) 1,2-Dichlorobenzene	(1)	13.493	146	1388578	10.740
92) Hexachloroethane	(1)	13.676	201	606847	11.447
93) 1,2-Dibromo-3-Chloropropane	(1)	14.030	157	56937	10.943
95) 1,2,4-Trichlorobenzene	(1)	14.578	180	1170532	11.140
96) Hexachlorobutadiene	(1)	14.670	225	960727	10.959
97) Naphthalene	(1)	14.749	128	1289277	11.042
98) 1,2,3-Trichlorobenzene	(1)	14.907	180	867969	10.978
73)$4-Bromofluorobenzene	(1)	12.329	174	545351	5.345
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	553910	5.588

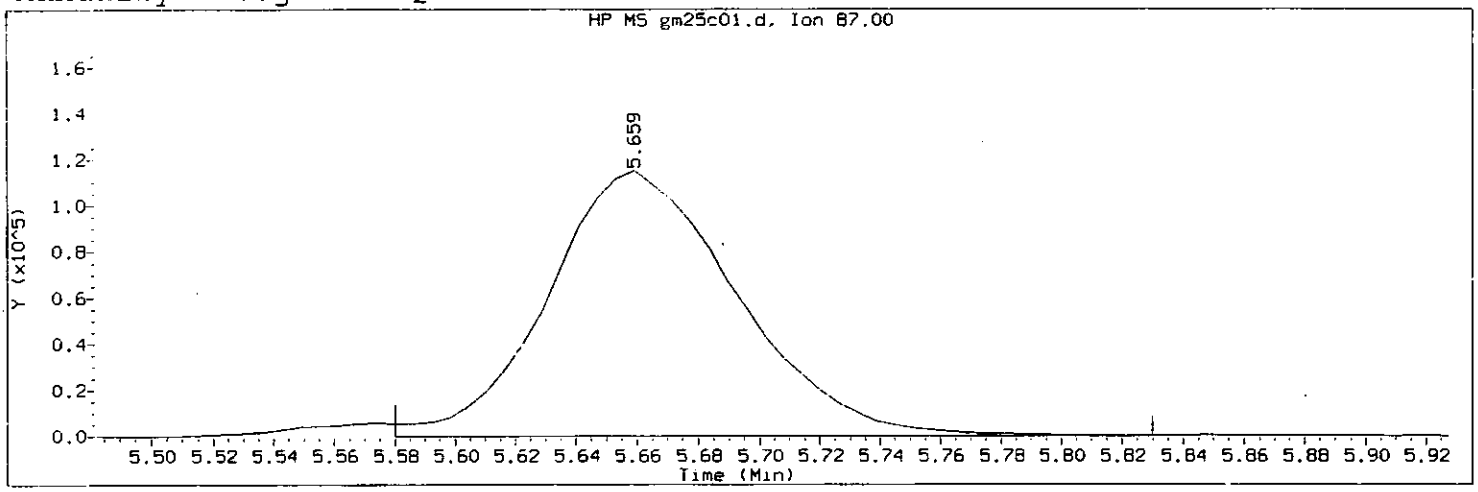
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 10:01 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 24
Compound Name : di-Isopropyl Ether
Scan Number : 668
Retention Time (minutes): 5.659
Quant Ion : 87
Area (flag) : 496880 M
Concentration (ug/L) : 9.3687
Integration start scan : 654 Integration stop scan: 695
Y at integration start : 0 Y at integration end: 0

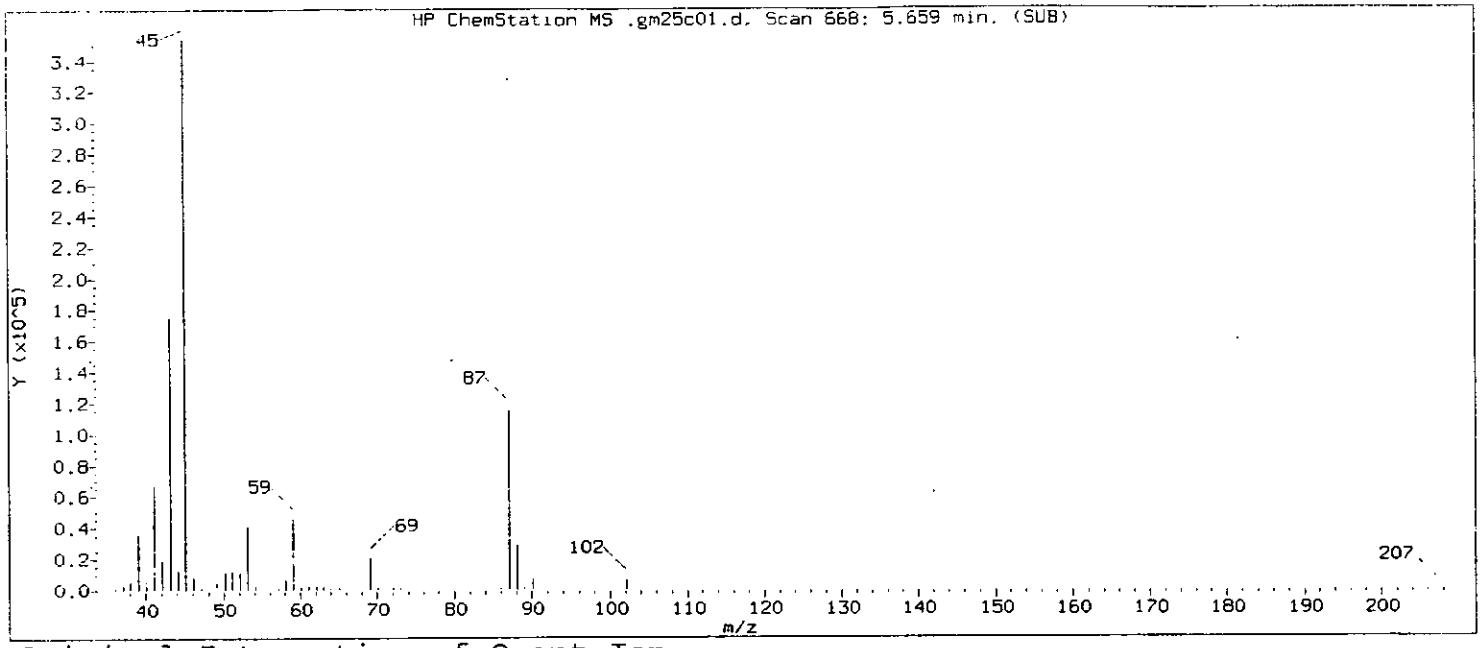
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: JMW3 3/25/10

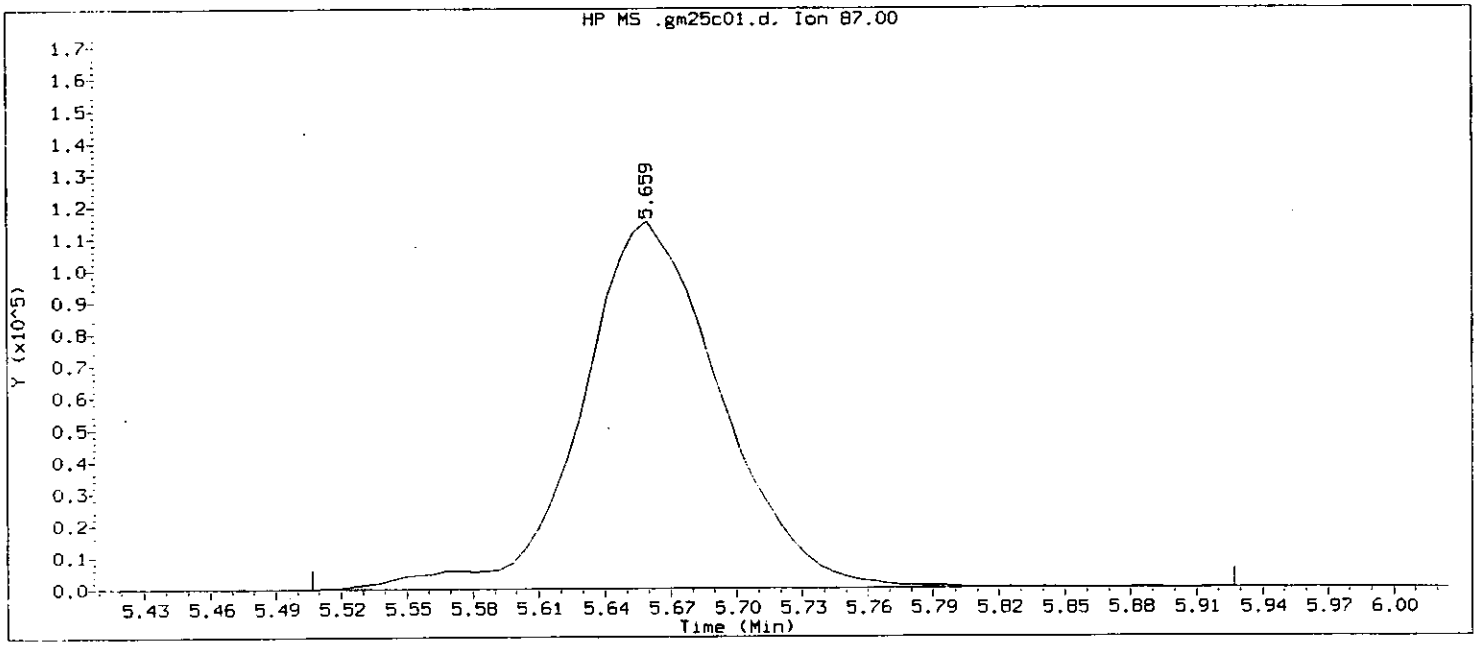
GC/MS audit/management approval: [signature] 03/31/10 WAT11 8194

Manual Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 09:56 Automation

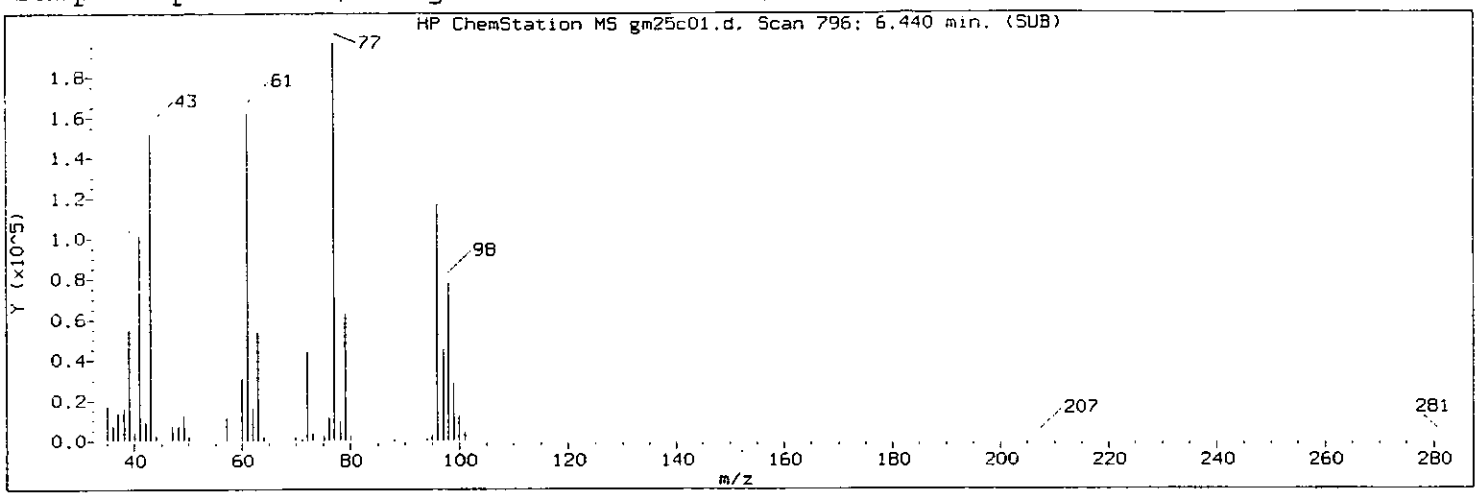
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	24
Compound Name	:	di-Isopropyl Ether
Scan Number	:	668
Retention Time (minutes)	:	5.659
Quant Ion	:	87
Area	:	510038
Concentration (ug/L)	:	9.6168
Integration start scan	:	642 Integration stop scan: 711
Y at integration start	:	0 Y at integration end: 0

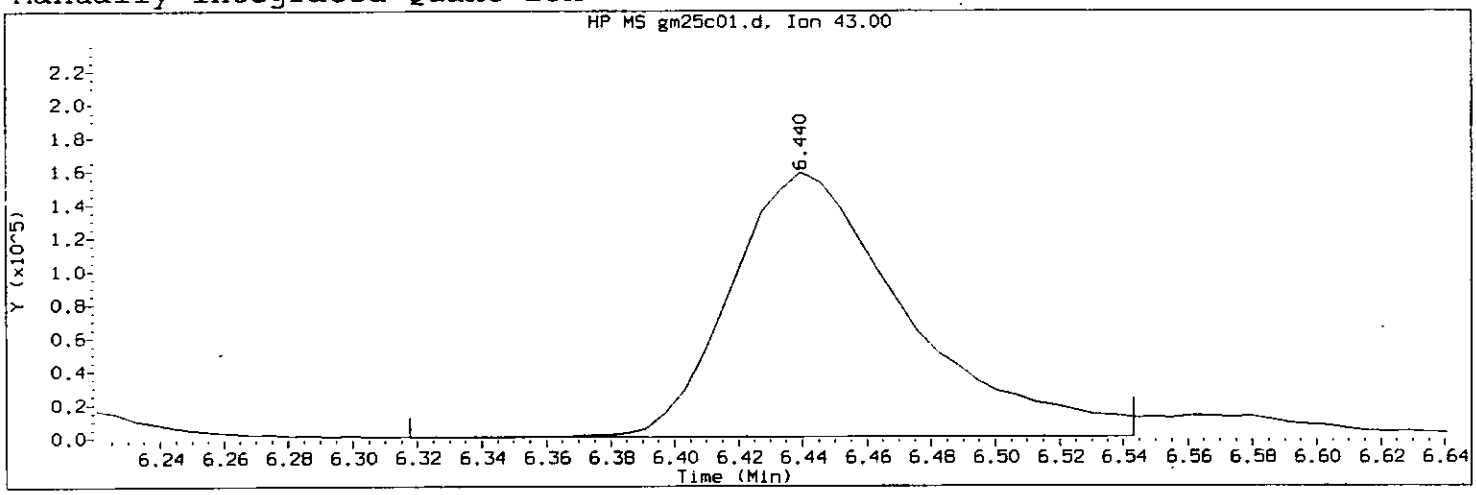
WAT11 @195

Original Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 10:01 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 796
Retention Time (minutes): 6.440
Quant Ion : 43
Area (flag) : 604407 M
Concentration (ug/L) : 96.3282
Integration start scan : 775 Integration stop scan: 812
Y at integration start : 341 Y at integration end: 364

Reason for manual integration (circle one): missed peak improper integration

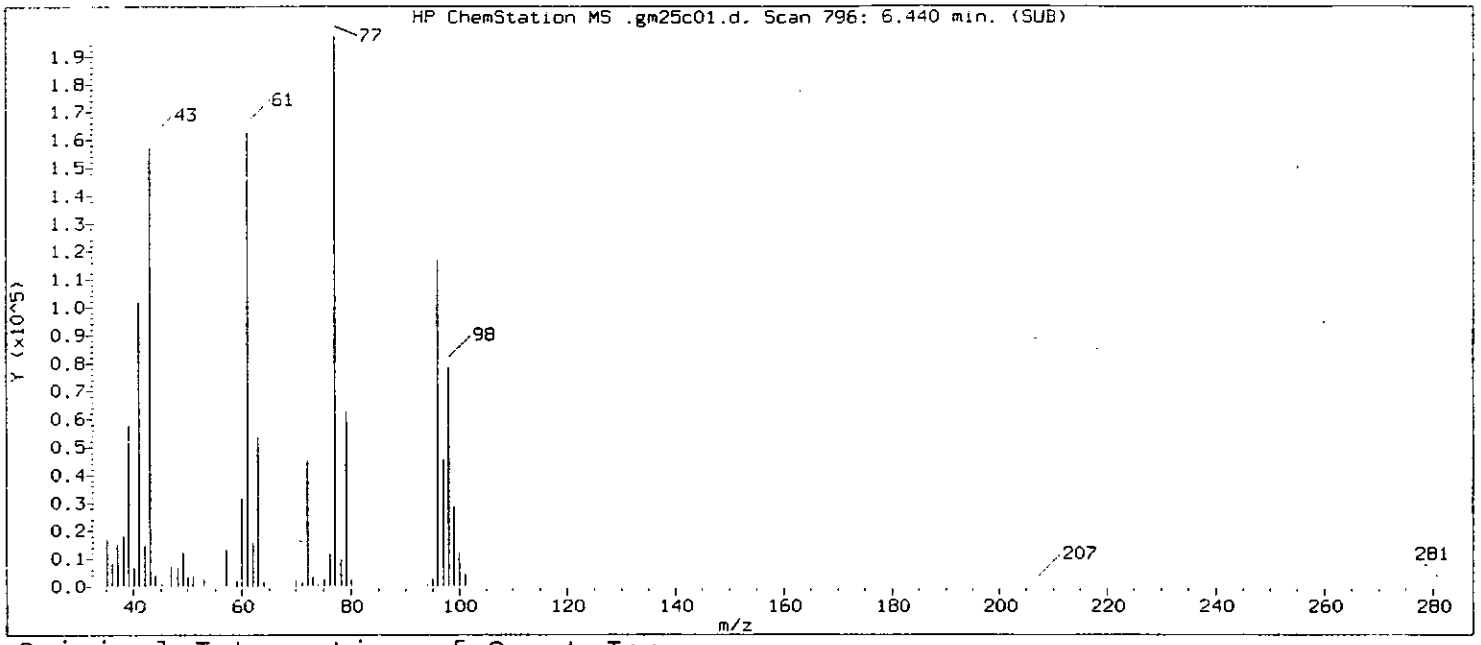
Analyst responsible for change: JMW 3/25/10

GC/MS audit/management approval: [signature] 03/10

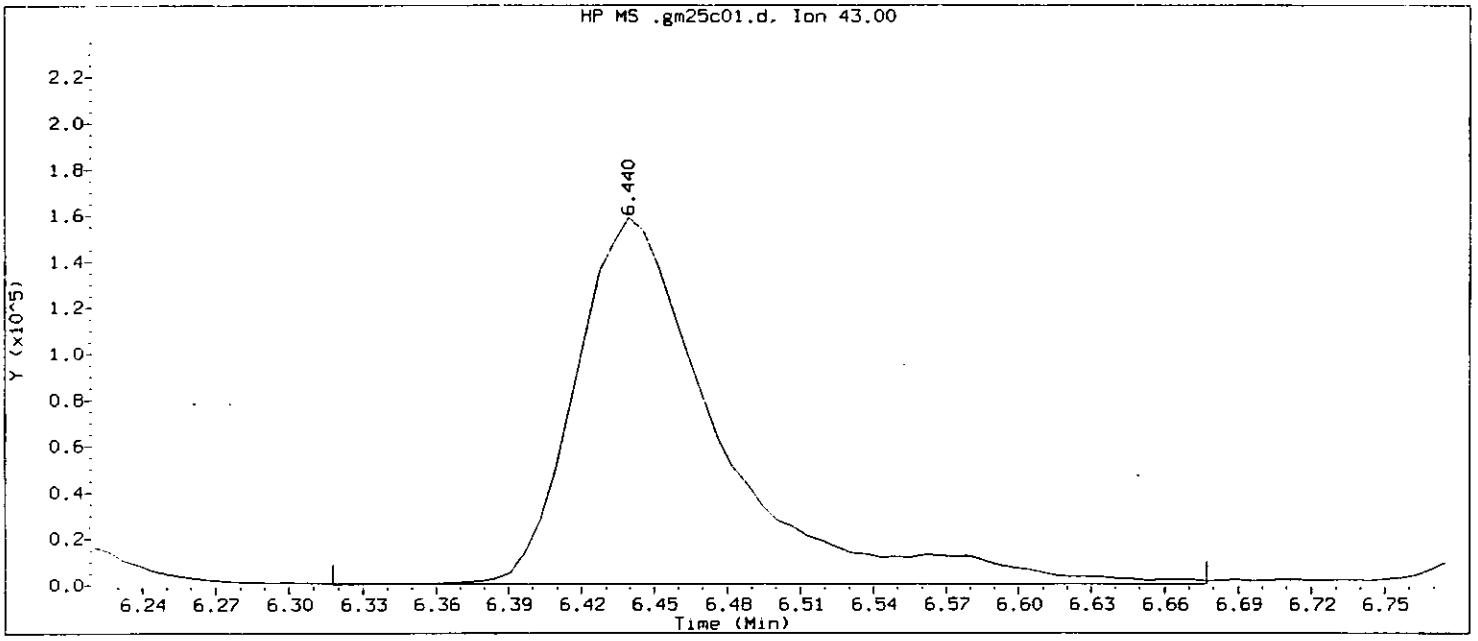
WAT11 0196

Manual Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 09:56 Automation

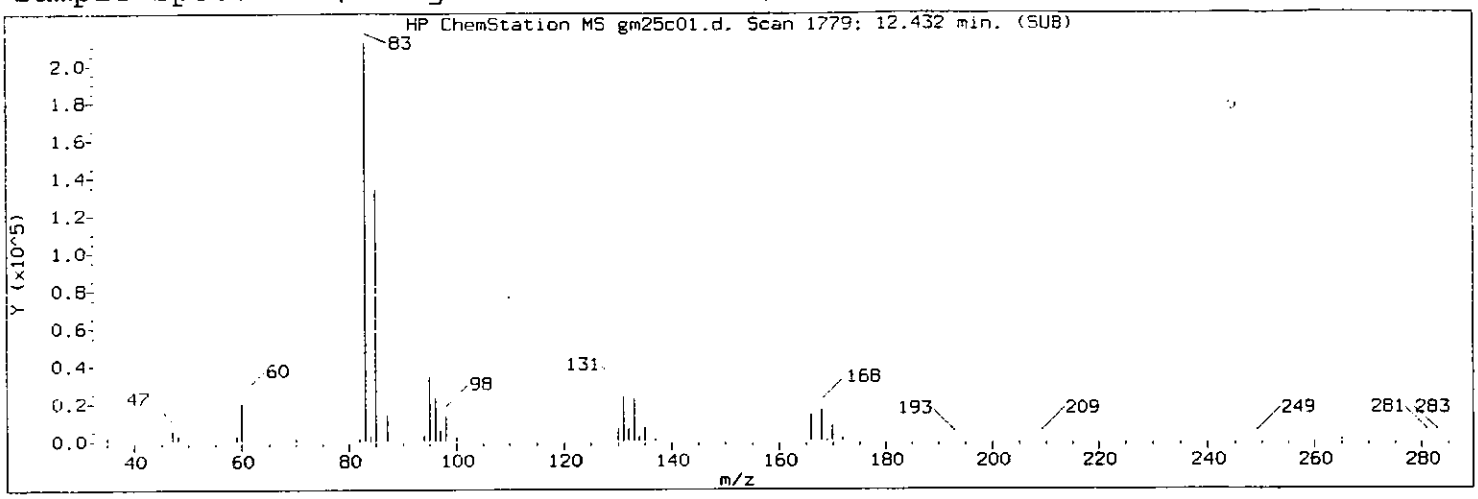
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 796
Retention Time (minutes): 6.440
Quant Ion : 43
Area : 653172
Concentration (ug/L) : 104.1002
Integration start scan : 775 Integration stop scan: 834
Y at integration start : 341 Y at integration end: 379

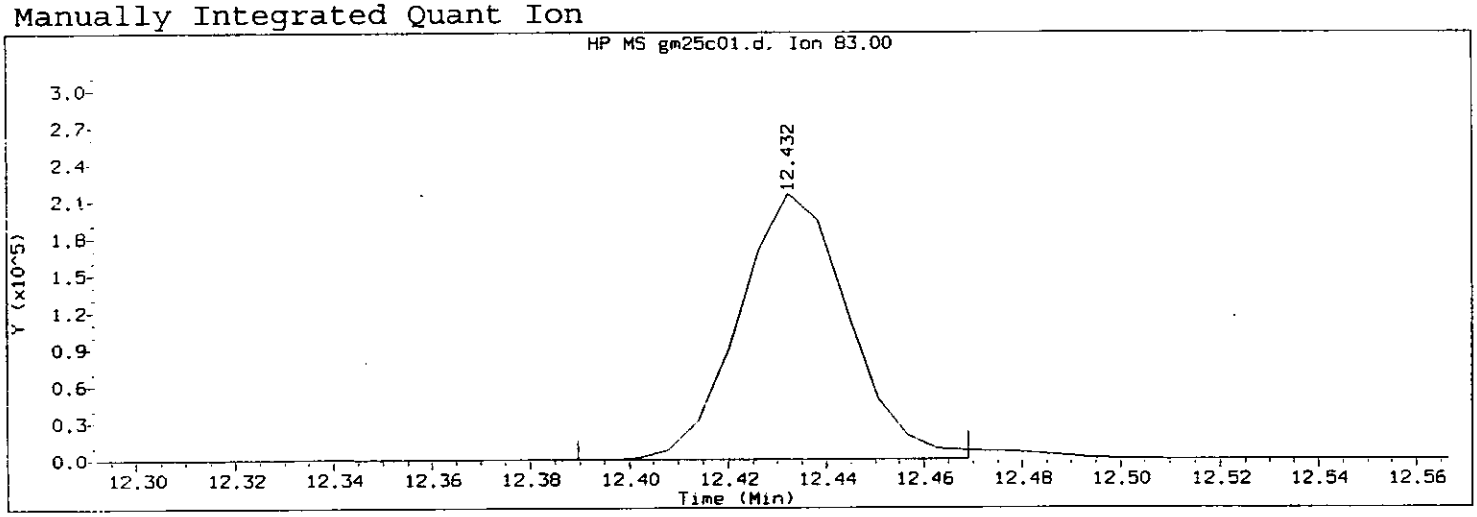
WAT11 8197

Original Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 10:01 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1779
Retention Time (minutes): 12.432
Quant Ion : 83
Area (flag) : 334026 M
Concentration (ug/L) : 10.4947
Integration start scan : 1771 Integration stop scan: 1784
Y at integration start : 0 Y at integration end: 0

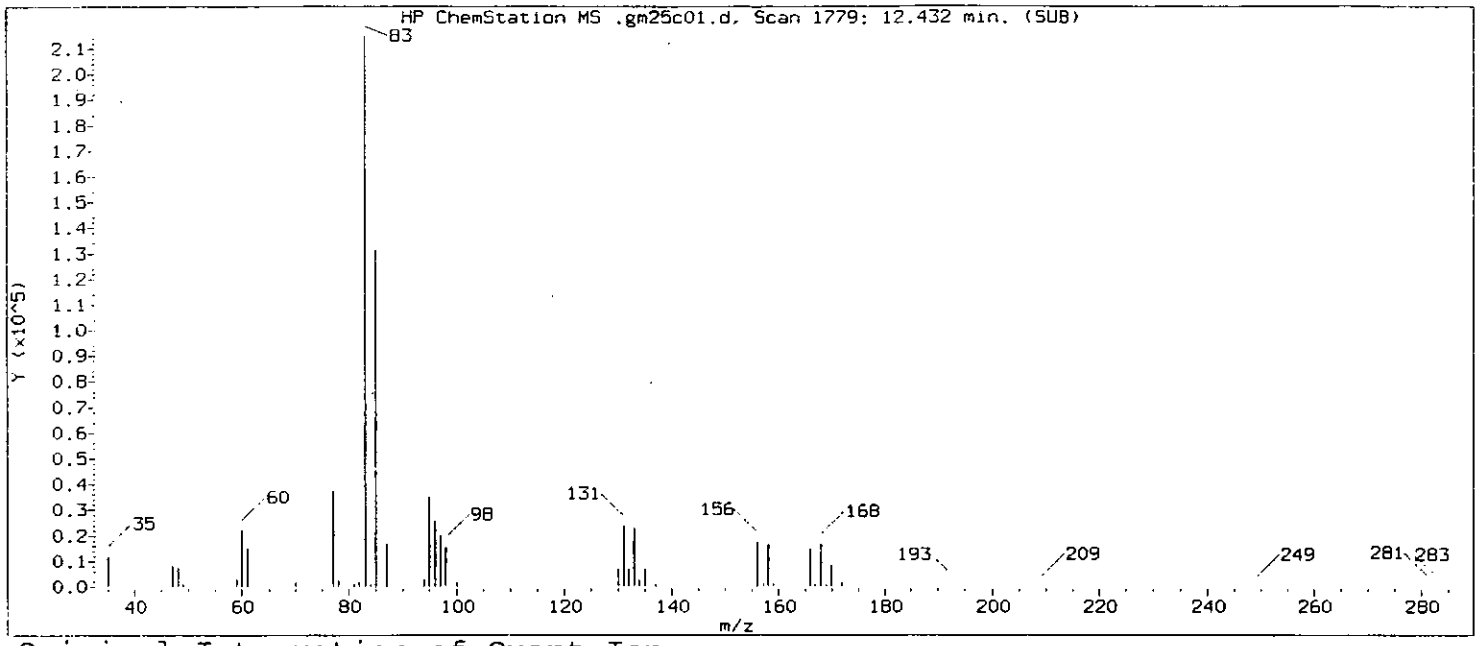
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: JMW 3/25/10

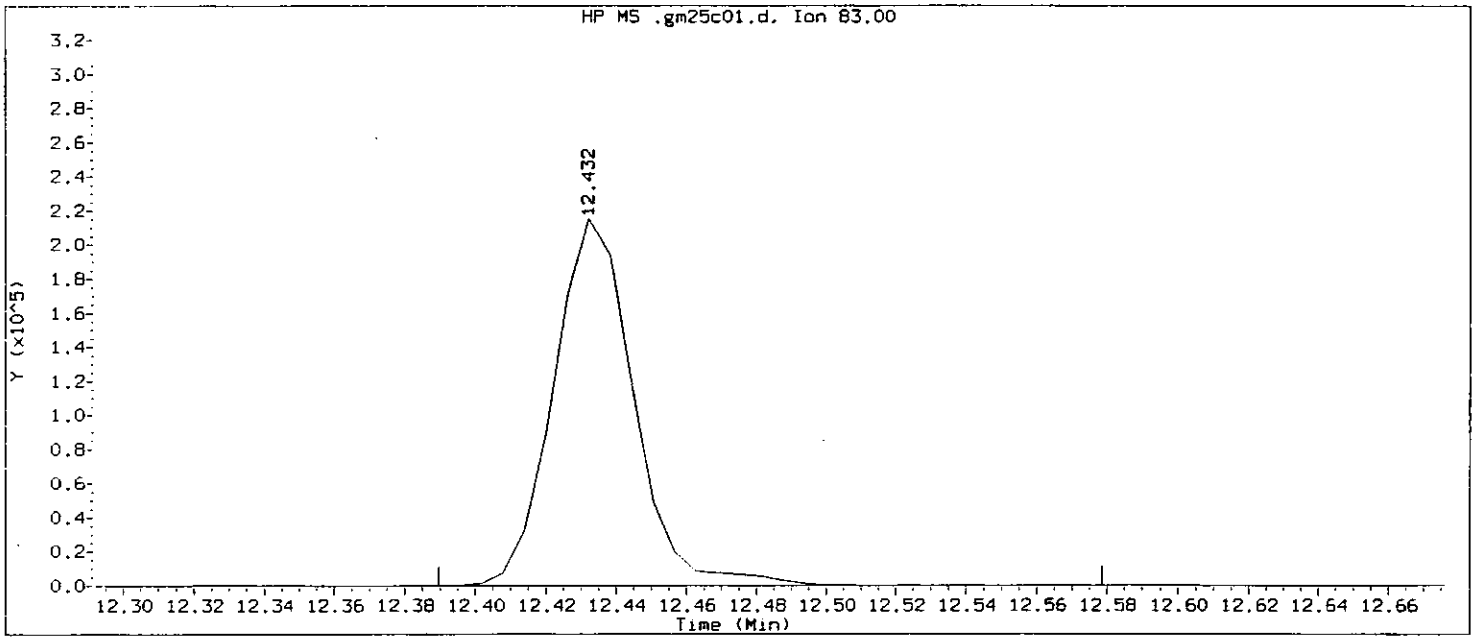
GC/MS audit/management approval: AMW1FW 03/31/10 WAT11 0198

Manual Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 09:56 Automation

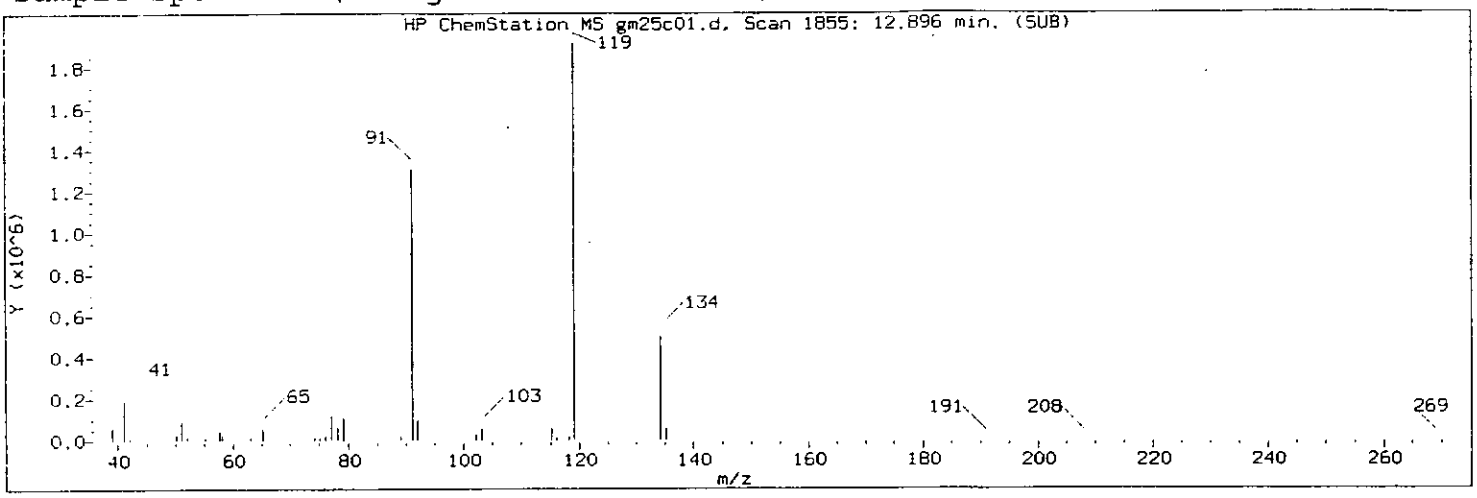
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	74
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1779
Retention Time (minutes)	:	12.432
Quant Ion	:	83
Area	:	340701
Concentration (ug/L)	:	10.7044
Integration start scan	:	1771 Integration stop scan: 1802
Y at integration start	:	0 Y at integration end: 0

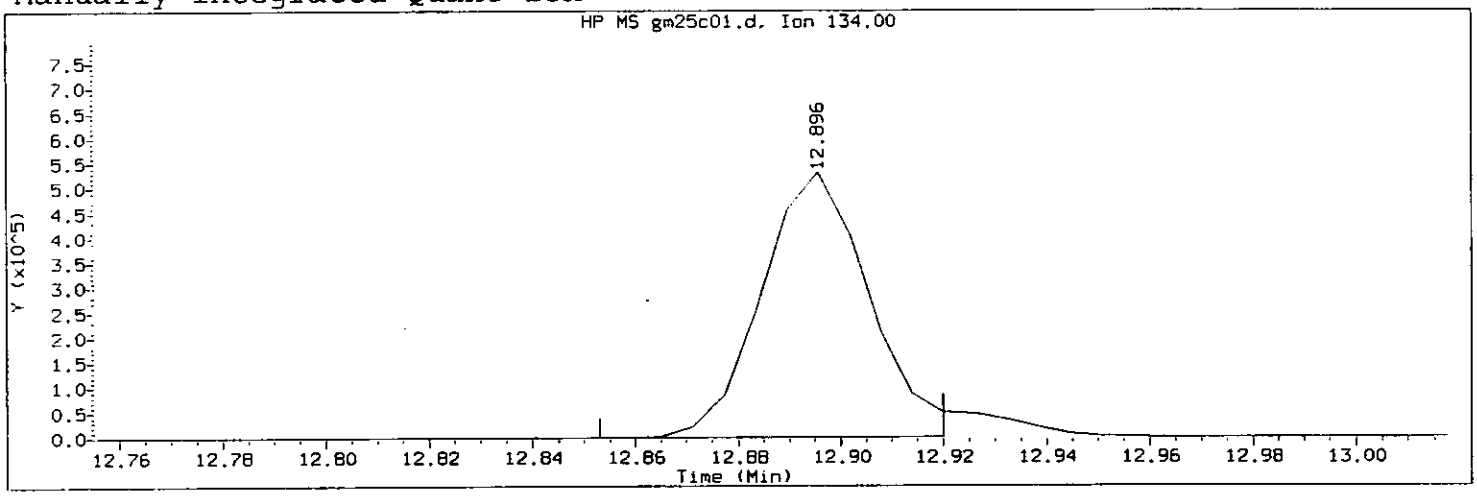
WAT11 8199

Original Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 10:01 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1855
Retention Time (minutes): 12.896
Quant Ion : 134
Area (flag) : 770474 M
Concentration (ug/L) : 10.5058
Integration start scan : 1847 Integration stop scan: 1858
Y at integration start : 0 Y at integration end: 0

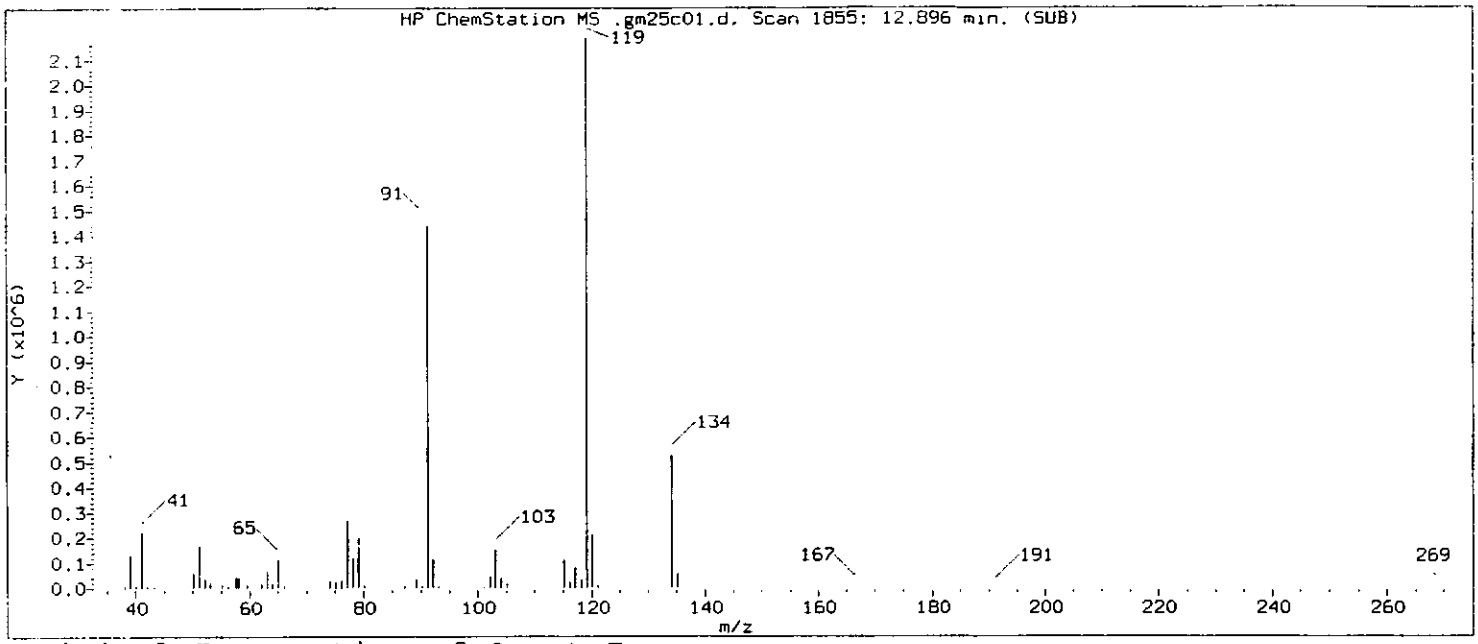
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: JML 3/25/10

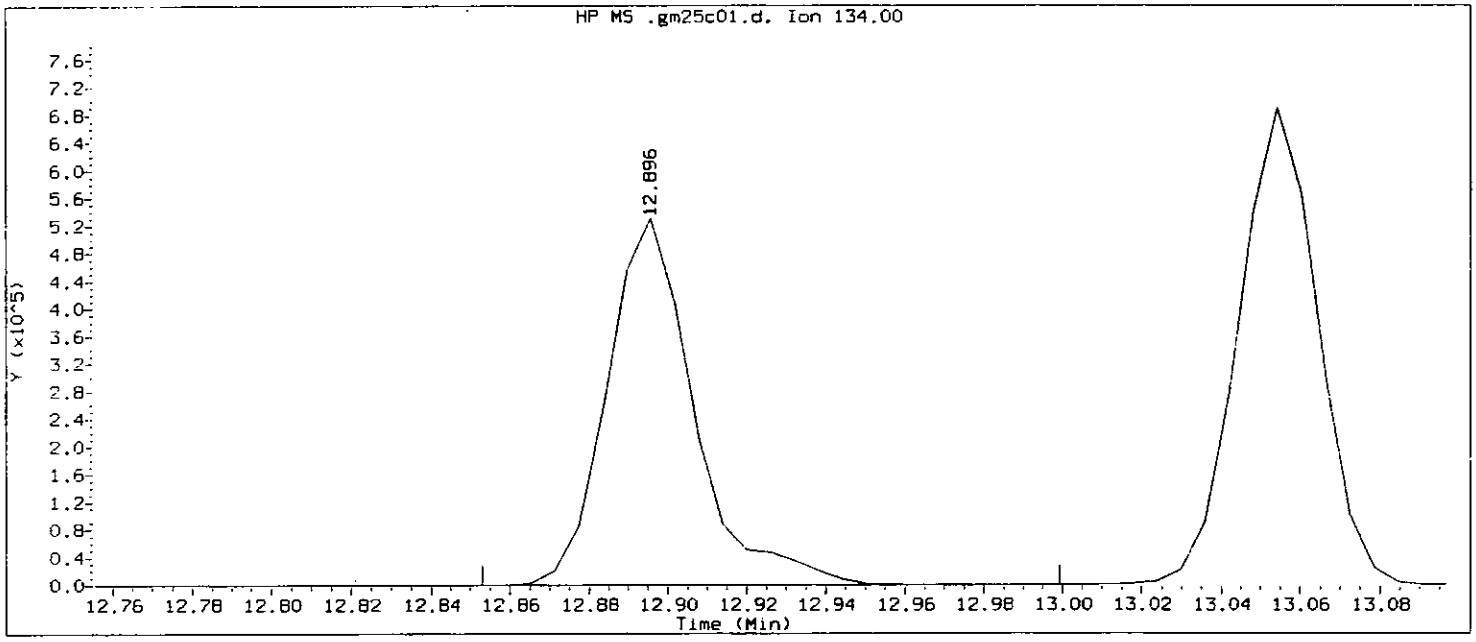
GC/MS audit/management approval: [signature] 03/31/10 WAT11 8208

Manual Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25c01.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 09:39 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: REV4+ACRO-N
Calibration date and time: 25-MAR-2010 09:56
Date, time and analyst ID of latest file update: 25-Mar-2010 09:56 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	82
Compound Name	:	tert-Butylbenzene
Scan Number	:	1855
Retention Time (minutes)	:	12.896
Quant Ion	:	134
Area	:	812567
Concentration (ug/L)	:	11.0798
Integration start scan	:	1847 Integration stop scan: 1871
Y at integration start	:	0 Y at integration end: 0

WAT11 8281

Original Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25c01.d, generated on 03/25/2010 at 10:01

Raw QC Data

Data File: /chem2/HP16334.i/10mar23a.b/gm23t01.d

Date : 23-MAR-2010 12:42

Client ID: 25ngBFB

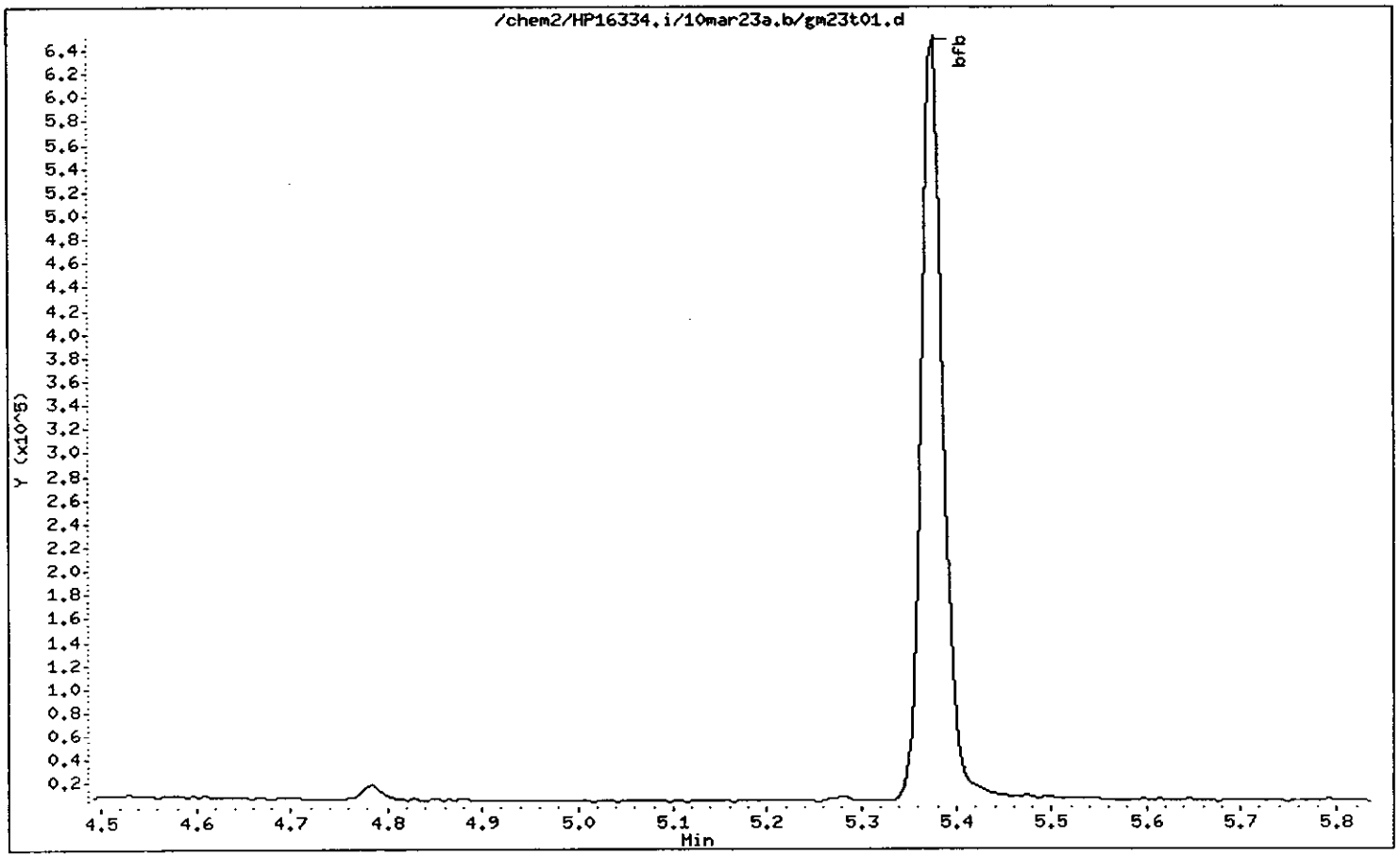
Instrument: HP16334.i

Sample Info: 25ngBFB;BFB FEB26-10;1;3;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.25



JML03
3/23/10

Data File: /chem2/HP16334.i/10mar23a.b/gm23t01.d

Date : 23-MAR-2010 12:42

Client ID: 25ngBFB

Instrument: HP16334.i

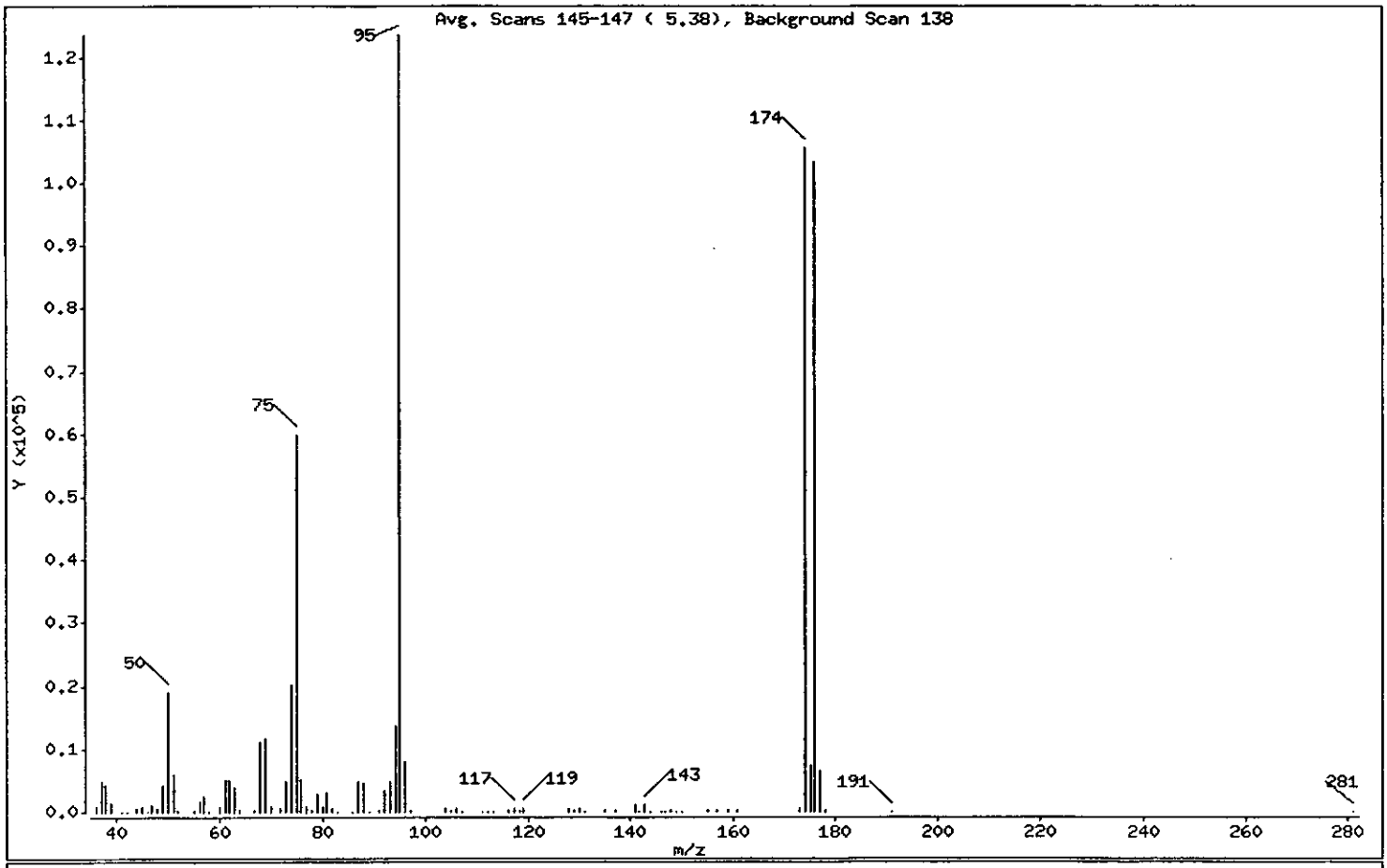
Sample Info: 25ngBFB;BFB FEB26-10;1;3;;

Operator: JML01693

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	15.48
75	30.00 - 80.00% of mass 95	48.47
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.48 (0.57)
174	50.00 - 100.00% of mass 95	85.52
175	5.00 - 9.00% of mass 174	6.03 (7.05)
176	95.00 - 101.00% of mass 174	83.69 (97.86)
177	5.00 - 9.00% of mass 176	5.38 (6.43)

Date : 23-MAR-2010 12:42

Client ID: 25ngBFB Instrument: HP16334.i

Sample Info: 25ngBFB;BFB FEB26-10;1;3;;

Operator: JML01693

Column phase: DB-624 Column diameter: 0.25

Data File: gm23t01.d
Spectrum: Avg. Scans 145-147 (5.38), Background Scan 138
Location of Maximum: 95.00
Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	889	64.00	384	93.00	4761	142.00	71
37.00	4808	67.00	358	94.00	13568	143.00	1223
38.00	4189	68.00	11069	95.00	123568	144.00	54
39.00	1443	69.00	11568	96.00	8038	146.00	140
41.00	28	70.00	932	97.00	231	147.00	61
42.00	63	72.00	674	104.00	488	148.00	330
44.00	652	73.00	4789	105.00	186	149.00	76
45.00	979	74.00	20232	106.00	510	150.00	134
46.00	59	75.00	59888	107.00	64	155.00	254
47.00	1200	76.00	5040	111.00	58	157.00	255
48.00	557	77.00	959	112.00	52	159.00	160
49.00	4302	78.00	282	113.00	62	161.00	145
50.00	19120	79.00	2921	116.00	406	173.00	599
51.00	6003	80.00	831	117.00	687	174.00	105680
52.00	211	81.00	3181	118.00	402	175.00	7454
55.00	348	82.00	692	119.00	617	176.00	103416
56.00	1652	83.00	53	128.00	501	177.00	6646
57.00	2476	86.00	132	129.00	230	178.00	210
58.00	57	87.00	4799	130.00	509	191.00	60
60.00	932	88.00	4551	131.00	61	281.00	68
61.00	5230	89.00	113	135.00	215		
62.00	5148	91.00	422	137.00	257		
63.00	3861	92.00	3387	141.00	1036		

Data File: /chem2/HP16334.i/10mar25a.b/gm25t01.d

Date : 25-MAR-2010 09:20

Client ID: 25ngBFB

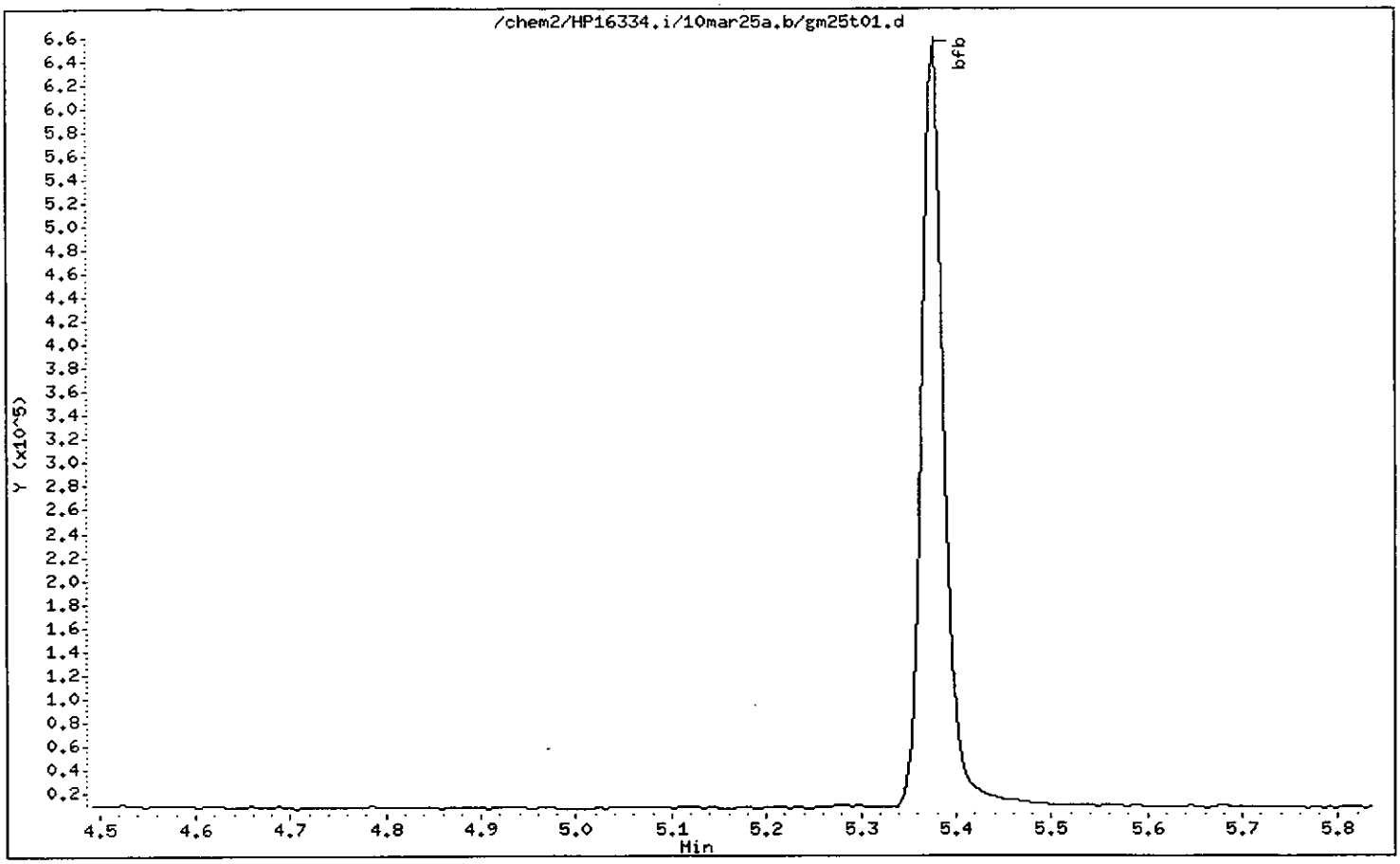
Instrument: HP16334.i

Sample Info: 25ngBFB;BFB FEB26-10;1;3;;

Operator: JHL01693

Column phase: DB-624

Column diameter: 0.25



JHL 3/25/10

Data File: /chem2/HP16334.i/10mar25a.b/gm25t01.d

Date : 25-MAR-2010 09:20

Client ID: 25ngBFB

Instrument: HP16334.i

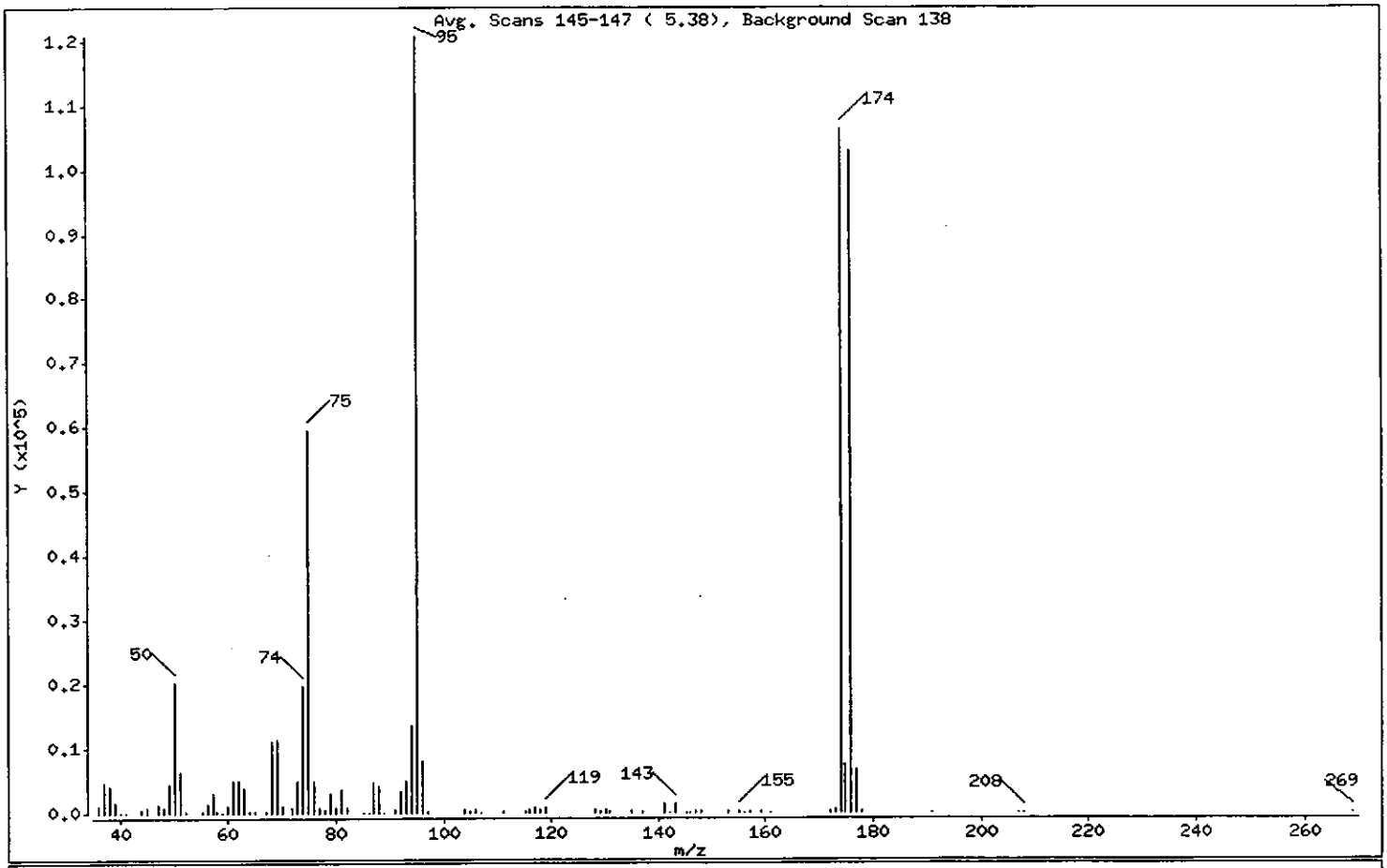
Sample Info: 25ngBFB;BFB FEB26-10;1;3;;

Operator: JML01693

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	16.83
75	30.00 - 80.00% of mass 95	49.28
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.55 (0.62)
174	50.00 - 100.00% of mass 95	88.10
175	5.00 - 9.00% of mass 174	6.20 (7.04)
176	95.00 - 101.00% of mass 174	85.37 (96.89)
177	5.00 - 9.00% of mass 176	5.62 (6.58)

Data File: /chem2/HP16334.i/10mar25a.b/gm25t01.d

Date : 25-MAR-2010 09:20

Client ID: 25ngBFB

Instrument: HP16334.i

Sample Info: 25ngBFB;BFB FEB26-10;1;3;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.25

Data File: gm25t01.d
Spectrum: Avg. Scans 145-147 (5.38), Background Scan 138
Location of Maximum: 95.00
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1057	65.00	219	94.00	13716	146.00	54
37.00	4645	67.00	153	95.00	120752	147.00	194
38.00	4195	68.00	11078	96.00	7998	148.00	361
39.00	1608	69.00	11399	97.00	339	153.00	145
40.00	111	70.00	999	104.00	557	155.00	308
41.00	78	72.00	718	105.00	227	156.00	122
44.00	458	73.00	4935	106.00	542	157.00	141
45.00	789	74.00	19736	107.00	117	159.00	199
47.00	1301	75.00	59504	111.00	173	161.00	133
48.00	797	76.00	5000	115.00	195	172.00	337
49.00	4543	77.00	883	116.00	441	173.00	659
50.00	20320	78.00	501	117.00	699	174.00	106384
51.00	6447	79.00	3185	118.00	521	175.00	7488
52.00	391	80.00	928	119.00	747	176.00	103080
55.00	328	81.00	3520	128.00	423	177.00	6782
56.00	1492	82.00	743	129.00	173	178.00	190
57.00	2941	85.00	70	130.00	430	191.00	111
58.00	171	86.00	114	131.00	276	207.00	1
59.00	68	87.00	4774	135.00	172	208.00	37
60.00	976	88.00	4122	137.00	272	269.00	71
61.00	5069	89.00	54	141.00	1310		
62.00	5053	91.00	447	142.00	111		
63.00	3885	92.00	3234	143.00	1448		
64.00	417	93.00	5071	145.00	54		

VBLKG41

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKG41

File: /chem2/HP16334.i/10mar25a.b/gm25b21.d
Sample: VBLKG41;VBLKG41;1;3;;;DRAPER;
Injected At:25-MAR-2010 16:49
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference:
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * Vt/Vo
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42) Fluorobenzene	7.988(0.000)	1050	96	1885225(-2)	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)	12.329(0.000)	174	485659	4.860	97%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(0.000)	152	512664	5.281	106%		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.	Qual.	Reporting 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

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKG41

File: /chem2/HP16334.i/10mar25a.b/gm25b21.d
Sample: VBLKG41;VBLKG41;1;3:::DRAPER:
Injected At:25-MAR-2010 16:49
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference:
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * Vt/Vo
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKG41

File: /chem2/HP16334.i/10mar25a.b/gm25b21.d
Sample: VBLKG41:VBLKG41;1;3;;;DRAPER;
Injected At:25-MAR-2010 16:49
Calibration Time: 23-MAR-2010 13:14
Target Method: gS24rv4.m
Blank Reference:
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting 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: _____

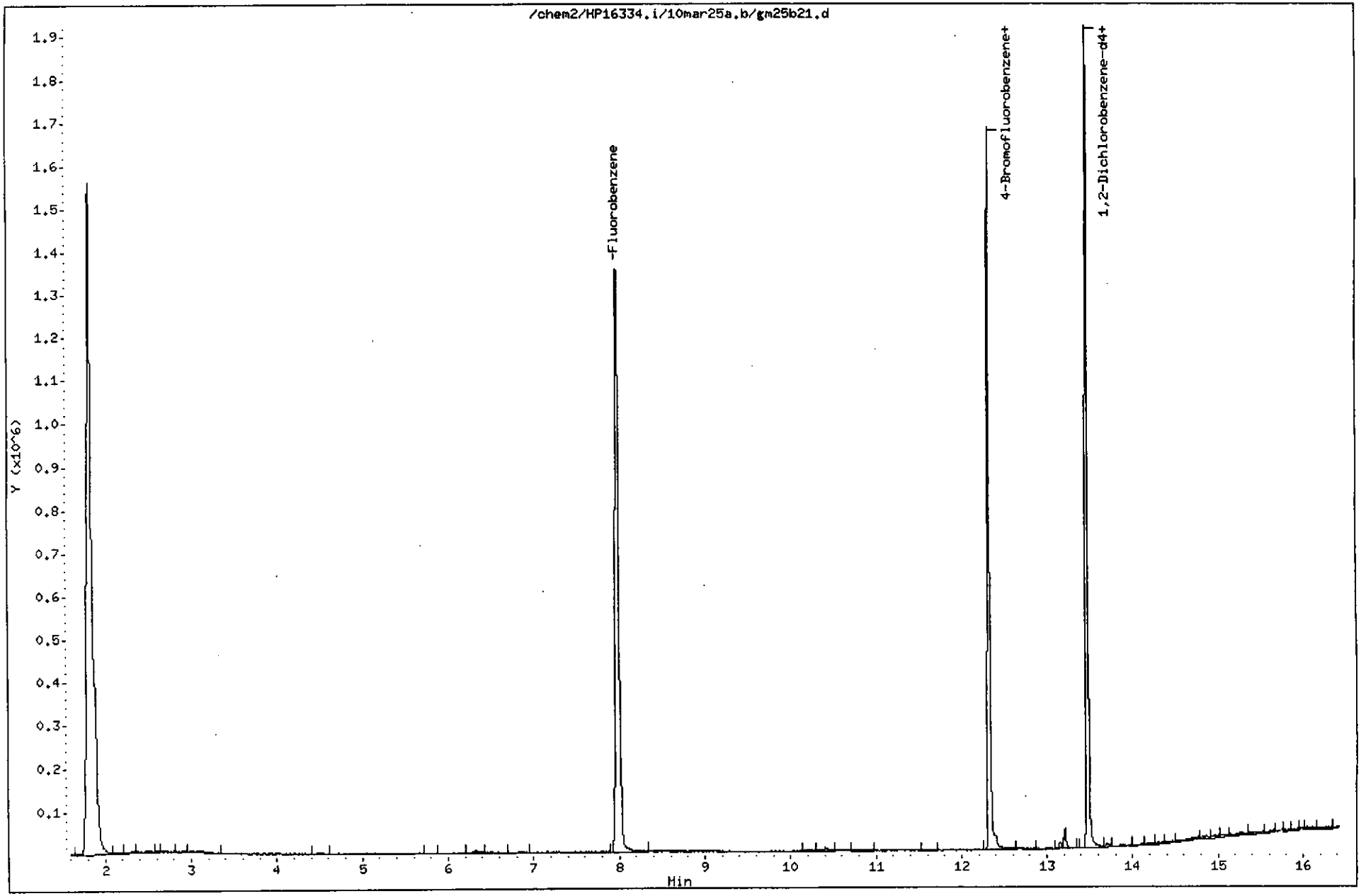
Analyst: JMLLW03 Date: 3/31/10

Auditor: [signature] Date: 033110

Data File: /chem2/HP16334.i/10mar25a.b/gm25b21.d
Date : 25-MAR-2010 16:49
Client ID: VBLKG41
Sample Info: VBLKG41;VBLKG41;1;3;;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25b21.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 16:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 17:45 lcm01518

Sample Name: VBLKG41 Lab Sample ID: VBLKG41

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42)*Fluorobenzene	(1)	7.988	96	1885225	5.000
73)$4-Bromofluorobenzene	(1)	12.329	174	485659	4.860
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	512664	5.281

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

LFBG41

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBG41

File: /chem2/HP16334.i/10mar25a.b/gm25121.d
Sample: LFBG41;LFBG41;1;3;LCS;;DPAPER;
Injected At:25-MAR-2010 17:11
Calibration Time: 25-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DPAPERREV3

Sample Concentration Formula: On-Column Amount * Vt/Vo
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
42 Fluorobenzene	7.988(0.000)	1050	96	1974805(3)	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)	12.329(0.000)	174	548133	5.237	105%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.475(0.000)	152	561610	5.523	110%		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.	Qual.	Reporting Limit	LOQ
1) Dichlorodifluoromethane	(1)	2.056(-0.001)	85	205194	1.492	1.49			0.20	0.50
2) Chloromethane	(1)	2.196(0.001)	50	101121	2.240	2.24			0.20	0.50
3) Vinyl Chloride	(1)	2.337(0.001)	62	101014	2.307	2.31			0.10	0.50
4) Bromomethane	(1)	2.715(0.001)	94	81129	2.122	2.12			0.10	0.50
5) Chloroethane	(1)	2.836(-0.001)	64	53639	2.113	2.11			0.20	0.50
7 Trichlorofluoromethane	(1)	3.154(0.001)	101	302983	2.189	2.19			0.20	0.50
10) 1,1-Dichloroethene	(1)	3.794(0.000)	96	352857	5.032	5.03			0.10	0.50
17) Methylene Chloride	(1)	4.501(0.000)	84	329355	4.797	4.80			0.30	0.50
20) trans-1,2-Dichloroethene	(1)	4.928(0.000)	96	409043	4.982	4.98			0.10	0.50
22) 1,1-Dichloroethane	(1)	5.568(0.000)	63	636046	4.821	4.82			0.10	0.50
26) cis-1,2-Dichloroethene	(1)	6.409(0.001)	96	395089	4.925	4.92			0.10	0.50
27) 2,2-Dichloropropane	(1)	6.415(0.000)	77	553854	4.980	4.98			0.20	0.50
32) Bromochloromethane	(1)	6.750(0.001)	128	136478	5.204	5.20			0.10	0.50
34) Chloroform	(1)	6.860(0.001)	83	676692	5.047	5.05			0.10	0.50
35) 1,1,1-Trichloroethane	(1)	7.110(0.001)	97	648789	5.159	5.16			0.10	0.50
37 Carbon Tetrachloride	(1)	7.336(0.001)	117	594888	5.352	5.35			0.10	0.50
38) 1,1-Dichloropropene	(1)	7.330(0.001)	75	547752	5.016	5.02			0.10	0.50
39) Benzene	(1)	7.616(0.000)	78	1474427	4.790	4.79			0.10	0.50
40) 1,2-Dichloroethane	(1)	7.647(0.000)	62	308815	5.071	5.07			0.10	0.50
43) Trichloroethene	(1)	8.463(0.001)	95	448253	4.983	4.98			0.10	0.50
44) 1,2-Dichloropropane	(1)	8.762(0.000)	63	312566	4.890	4.89			0.10	0.50
46) Dibromomethane	(1)	8.915(0.001)	93	124818	5.060	5.06			0.10	0.50
47) Bromodichloromethane	(1)	9.116(0.001)	83	375059	5.244	5.24			0.10	0.50
50) cis 1,3-Dichloropropene	(1)	9.652(0.001)	75	390614	4.712	4.71			0.10	0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBG41

File: /chem2/HP16334.i/10mar25a.b/gm25121.d
Sample: LFBG41;LFBG41;1;3;LCS;;DRAPER;
Injected At:25-MAR-2010 17:11
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * Vt/Vo
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting Limit	LOQ
53	Toluene	(1)	10.018	(0.001)	92	989372	4.998	5.00			0.10	0.50
55	trans 1,3 Dichloropropene	1	10.256	(0.000)	75	290032	4.997	5.00			0.10	0.50
57	1,1,2 Trichloroethane	(1)	10.445	(0.000)	83	144553	5.050	5.05			0.10	0.50
58	Tetrachloroethene	(1)	10.579	(0.000)	166	526279	5.132	5.13			0.10	0.50
59	1,3-Dichloropropane	(1)	10.609	(0.000)	76	286801	4.890	4.89			0.10	0.50
61	Dibromochloromethane	(1)	10.829	(0.000)	129	203482	5.147	5.15			0.10	0.50
62	1,2-Dibromoethane	(1)	10.945	(0.000)	107	152083	4.842	4.84			0.10	0.50
64	Chlorobenzene	(1)	11.384	(0.000)	112	1052168	5.005	5.01			0.10	0.50
65	1,1,1,2-Tetrachloroethane	(1)	11.451	(0.000)	131	336079	5.102	5.10			0.10	0.50
66	Ethylbenzene	(1)	11.469	(0.000)	106	630868	5.033	5.03			0.10	0.50
67	m-p-Xylene	(1)	11.566	(0.000)	106	1534365	10.229	10.23			0.20	0.50
68	o Xylene	(1)	11.902	(0.000)	106	721229	5.136	5.14			0.10	0.50
69	Styrene	(1)	11.914	(0.000)	104	1076056	5.300	5.30			0.10	0.50
71	Bromoform	(1)	12.085	(0.000)	173	93958	5.043	5.04			0.20	0.50
72	Isopropylbenzene	(1)	12.194	(0.001)	120	543860	5.260	5.26			0.10	0.50
74	1,1,2,2-Tetrachloroethane	(1)	12.432	(0.000)	83	168278	5.154	5.15			0.10	0.50
75	Bromobenzene	(1)	12.457	(0.000)	156	404179	5.170	5.17			0.10	0.50
76	1,2,3-Trichloropropane	(1)	12.475	(0.000)	110	48353	5.113	5.11			0.10	0.50
78	n-Propylbenzene	(1)	12.518	(0.000)	120	589138	5.173	5.17			0.10	0.50
79	2-Chlorotoluene	(1)	12.597	(0.000)	126	484226	5.178	5.18			0.10	0.50
80	1,3,5-Trimethylbenzene	(1)	12.639	(0.001)	105	1811850	5.181	5.18			0.10	0.50
81	4-Chlorotoluene	(1)	12.676	(0.000)	126	484612	5.179	5.18			0.20	0.50
82	tert-Butylbenzene	(1)	12.896	(0.000)	134	409095	5.438	5.44			0.10	0.50
84	1,2,4-Trimethylbenzene	(1)	12.926	(0.000)	105	1855427	5.434	5.43			0.10	0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LFBG41

File: chem2/HP16334.i/10mar25a.b/gm25121.d
Sample: LFBG41;LFBG41;1;3;LCS;;DRAPER; .
Injected At:25-MAR-2010 17:11
Calibration Time: 23-MAR-2010 13:14
Target Method: g524rv4.m
Blank Reference: gm25b21.d
Sublist: DRAPERREV3

Sample Concentration Formula: On-Column Amount * Vt/Vo
Batch:G100842AA
Analyst:JML01693
Instrument ID:HP16334.i
Standard Reference: gm25c01.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.	Qual.	Reporting Limit	LOQ
85 sec-Butylbenzene	(1)	13.054	(0.000)	134	479975	5.226	5.23			0.10	0.50
86 p-Isopropyltoluene	(1)	13.145	(0.001)	119	2074322	5.380	5.38			0.10	0.50
87 1,3-Dichlorobenzene	(1)	13.152	(0.001)	146	928461	5.586	5.59			0.10	0.50
88 1,4-Dichlorobenzene	(1)	13.219	(0.000)	146	897924	5.346	5.35			0.10	0.50
89 n-Butylbenzene	(1)	13.438	(0.001)	92	1070688	5.518	5.52			0.20	0.50
91 1,2-Dichlorobenzene	(1)	13.487	(0.001)	146	729438	5.500	5.50			0.10	0.50
93 1,2-Dibromo-3-Chloropropane	(1)	14.029	(0.000)	157	26827	5.026	5.03			0.40	0.50
95 1,2,4-Trichlorobenzene	(1)	14.578	(0.000)	180	583099	5.410	5.41			0.20	0.50
96 Hexachlorobutadiene	(1)	14.663	(0.001)	225	497100	5.528	5.53			0.20	0.50
97 Naphthalene	(1)	14.755	(-0.001)	128	602829	5.033	5.03			0.20	0.50
98 1,2,3-Trichlorobenzene	(1)	14.907	(0.000)	180	421120	5.192	5.19			0.20	0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

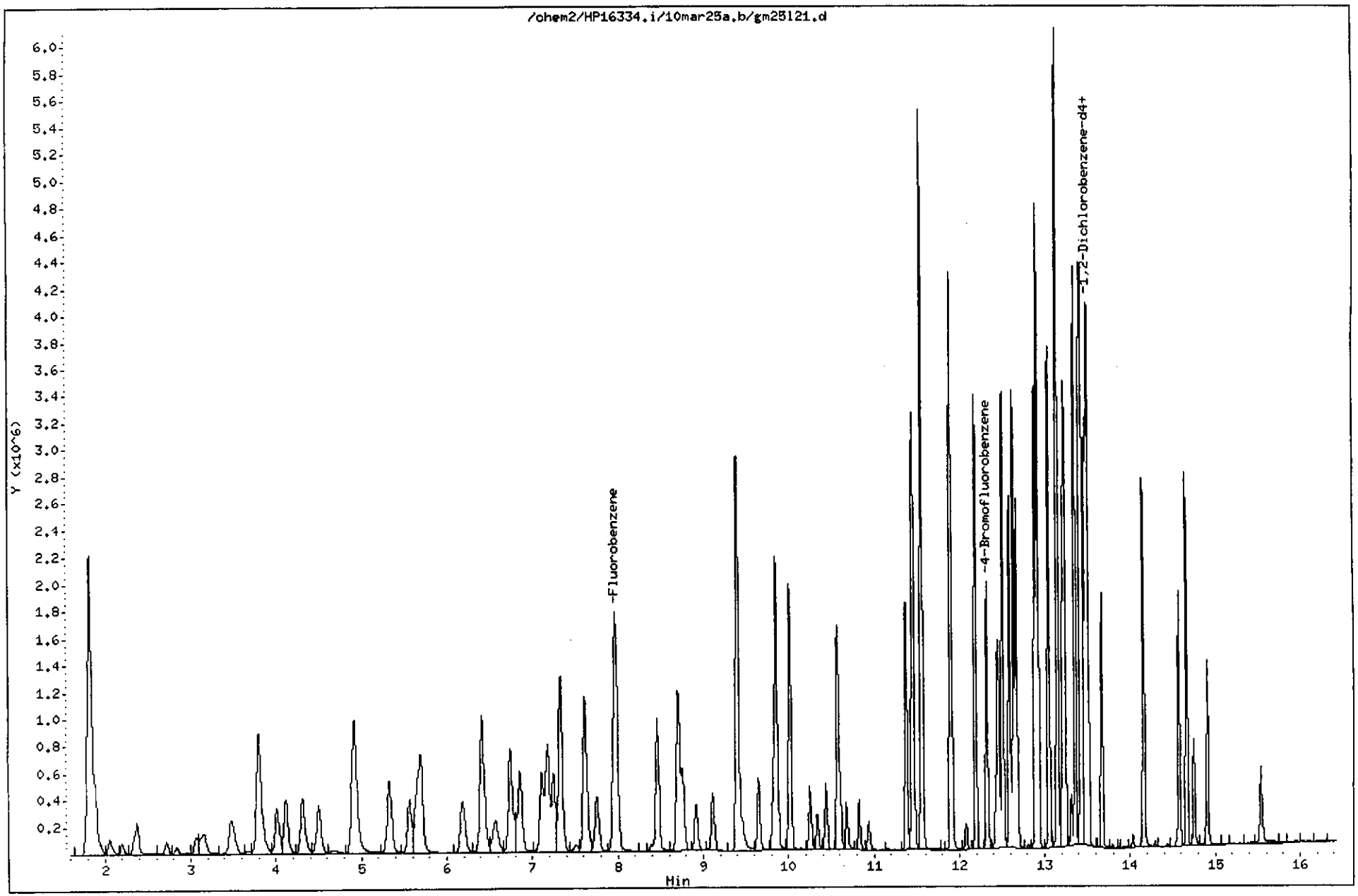
Analyst: [signature] Date: 3/25/10

Auditor: [signature] Date: 03/31/10

Data File: /chem2/HP16334.i/10mar25a.b/gm25121.d
Date : 25-MAR-2010 17:11
Client ID: LFBG41
Sample Info: LFBG41;LFBG41;1;3;LCS;;DRAPER;
Purge Volume: 25.0
Column phase: DB-624

Instrument: HP16334.i

Operator: JML01693
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25121.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 17:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 17:46 lcm01518

Sample Name: LFBG41 Lab Sample ID: LFBG41

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) Dichlorodifluoromethane	(1)	2.056	85	205194	1.492
2) Chloromethane	(1)	2.196	50	101121	2.240
3) Vinyl Chloride	(1)	2.337	62	101014	2.307
4) Bromomethane	(1)	2.715	94	81129	2.122
5) Chloroethane	(1)	2.836	64	53639	2.113
7) Trichlorofluoromethane	(1)	3.154	101	302983	2.189
10) 1,1-Dichloroethene	(1)	3.794	96	352857	5.032
17) Methylene Chloride	(1)	4.501	84	329355	4.797
20) trans-1,2-Dichloroethene	(1)	4.928	96	409043	4.982
22) 1,1-Dichloroethane	(1)	5.568	63	636046M	4.821
26) cis-1,2-Dichloroethene	(1)	6.409	96	395089	4.925
27) 2,2-Dichloropropane	(1)	6.415	77	553854	4.980
32) Bromochloromethane	(1)	6.750	128	136478	5.204
34) Chloroform	(1)	6.860	83	676692	5.047
35) 1,1,1-Trichloroethane	(1)	7.110	97	648789	5.159
37) Carbon Tetrachloride	(1)	7.336	117	594888	5.352
38) 1,1-Dichloropropene	(1)	7.330	75	547752	5.016
39) Benzene	(1)	7.616	78	1474427	4.790
40) 1,2-Dichloroethane	(1)	7.647	62	308815	5.071
42)*Fluorobenzene	(1)	7.988	96	1974805	5.000
43) Trichloroethene	(1)	8.463	95	448253	4.983
44) 1,2-Dichloropropane	(1)	8.762	63	312566	4.890
46) Dibromomethane	(1)	8.915	93	124818	5.060
47) Bromodichloromethane	(1)	9.116	83	375059	5.244
50) cis-1,3-Dichloropropene	(1)	9.652	75	390614	4.712
53) Toluene	(1)	10.018	92	989372	4.998
55) trans-1,3-Dichloropropene	(1)	10.256	75	290032	4.997
57) 1,1,2-Trichloroethane	(1)	10.445	83	144553	5.050
58) Tetrachloroethene	(1)	10.579	166	526279	5.132
59) 1,3-Dichloropropane	(1)	10.609	76	286801	4.890
61) Dibromochloromethane	(1)	10.829	129	203482	5.147
62) 1,2-Dibromoethane	(1)	10.945	107	152083	4.842
64) Chlorobenzene	(1)	11.384	112	1052168	5.005
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	336079	5.102

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/10mar25a.b/gm25l21.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 17:11 Analyst ID: JML01693

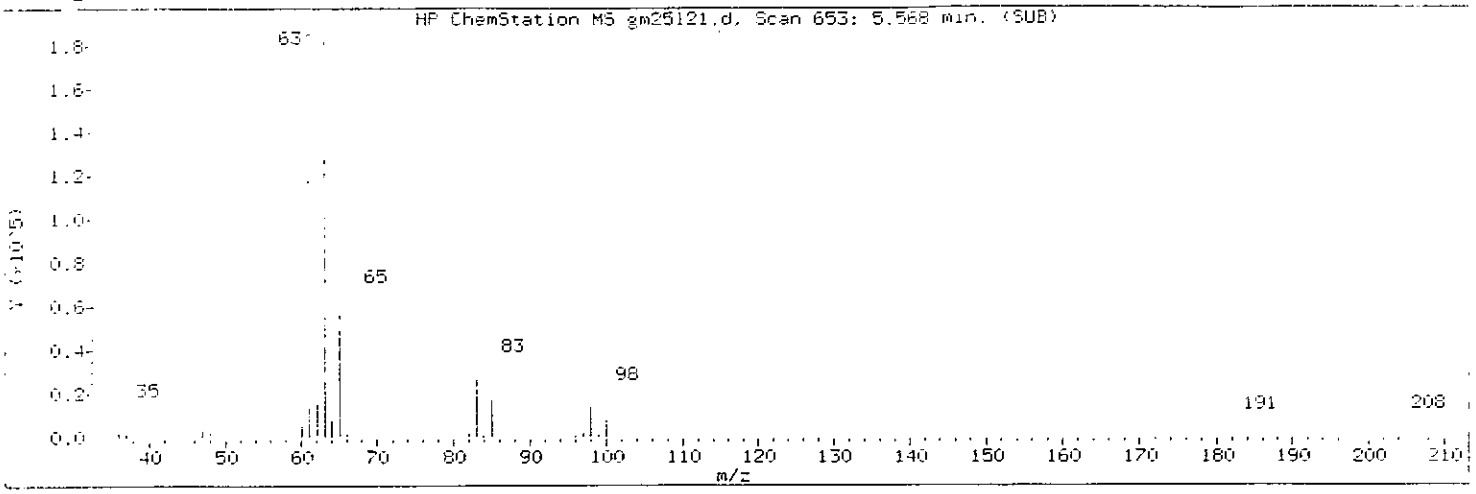
Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2010 13:14
Date, time and analyst ID of latest file update: 25-Mar-2010 17:46 lcm01518

Sample Name: LFBG41 Lab Sample ID: LFBG41

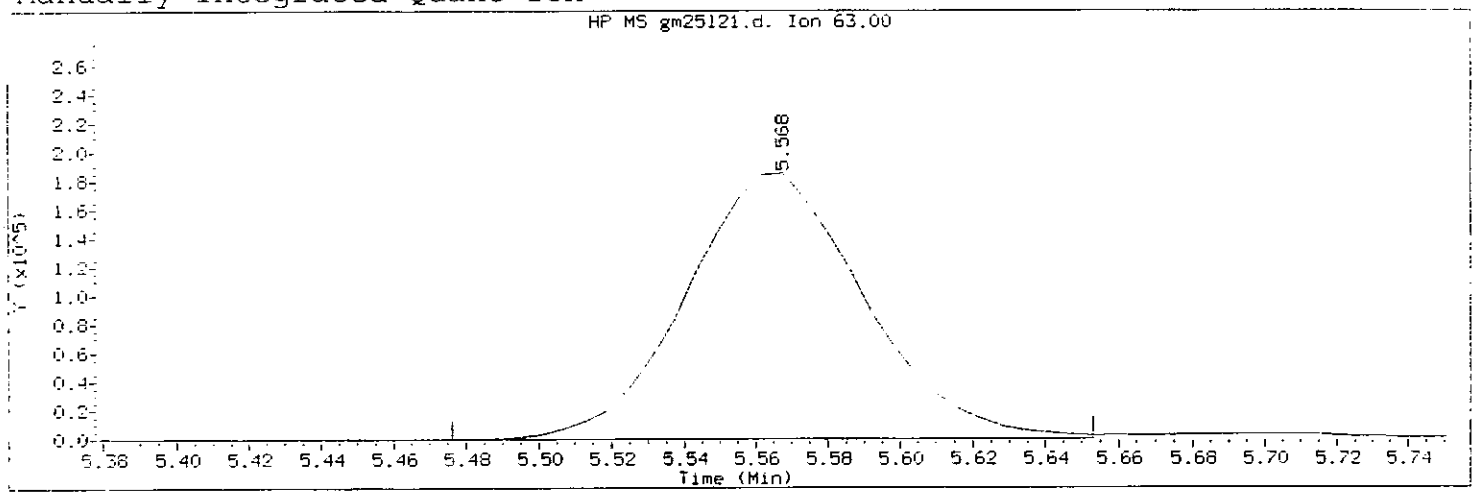
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
66) Ethylbenzene	(1)	11.469	106	630868	5.033
67) m+p-Xylene	(1)	11.566	106	1534365	10.229
68) o-Xylene	(1)	11.902	106	721229	5.136
69) Styrene	(1)	11.914	104	1076056	5.300
71) Bromoform	(1)	12.085	173	93958	5.043
72) Isopropylbenzene	(1)	12.194	120	543860	5.260
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	168278	5.154
75) Bromobenzene	(1)	12.457	156	404179	5.170
76) 1,2,3-Trichloropropane	(1)	12.475	110	48353	5.113
78) n-Propylbenzene	(1)	12.518	120	589138	5.173
79) 2-Chlorotoluene	(1)	12.597	126	484226	5.178
80) 1,3,5-Trimethylbenzene	(1)	12.639	105	1811850	5.181
81) 4-Chlorotoluene	(1)	12.676	126	484612	5.179
82) tert-Butylbenzene	(1)	12.896	134	409095	5.438
84) 1,2,4-Trimethylbenzene	(1)	12.926	105	1855427	5.434
85) sec-Butylbenzene	(1)	13.054	134	479975	5.226
86) p-Isopropyltoluene	(1)	13.145	119	2074322	5.380
87) 1,3-Dichlorobenzene	(1)	13.152	146	928461	5.586
88) 1,4-Dichlorobenzene	(1)	13.219	146	897924	5.346
89) n-Butylbenzene	(1)	13.438	92	1070688	5.518
91) 1,2-Dichlorobenzene	(1)	13.487	146	729438	5.500
93) 1,2-Dibromo-3-Chloropropane	(1)	14.029	157	26827	5.026
95) 1,2,4-Trichlorobenzene	(1)	14.578	180	583099	5.410
96) Hexachlorobutadiene	(1)	14.663	225	497100	5.528
97) Naphthalene	(1)	14.755	128	602829	5.033
98) 1,2,3-Trichlorobenzene	(1)	14.907	180	421120	5.192
73)$4-Bromofluorobenzene	(1)	12.329	174	548133	5.237
90)$1,2-Dichlorobenzene-d4	(1)	13.475	152	561610	5.523

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25121.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 17:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 17:46 lcm01518

Sample Name: LFBG41 Lab Sample ID: LFBG41

Compound Number : 22
Compound Name : 1,1-Dichloroethane
Scan Number : 653
Retention Time (minutes): 5.568
Quant Ion : 63
Area (flag) : 636046 M
Concentration (ug/L) : 4.8210
Integration start scan : 637 Integration stop scan: 666
Y at integration start : 0 Y at integration end: 0

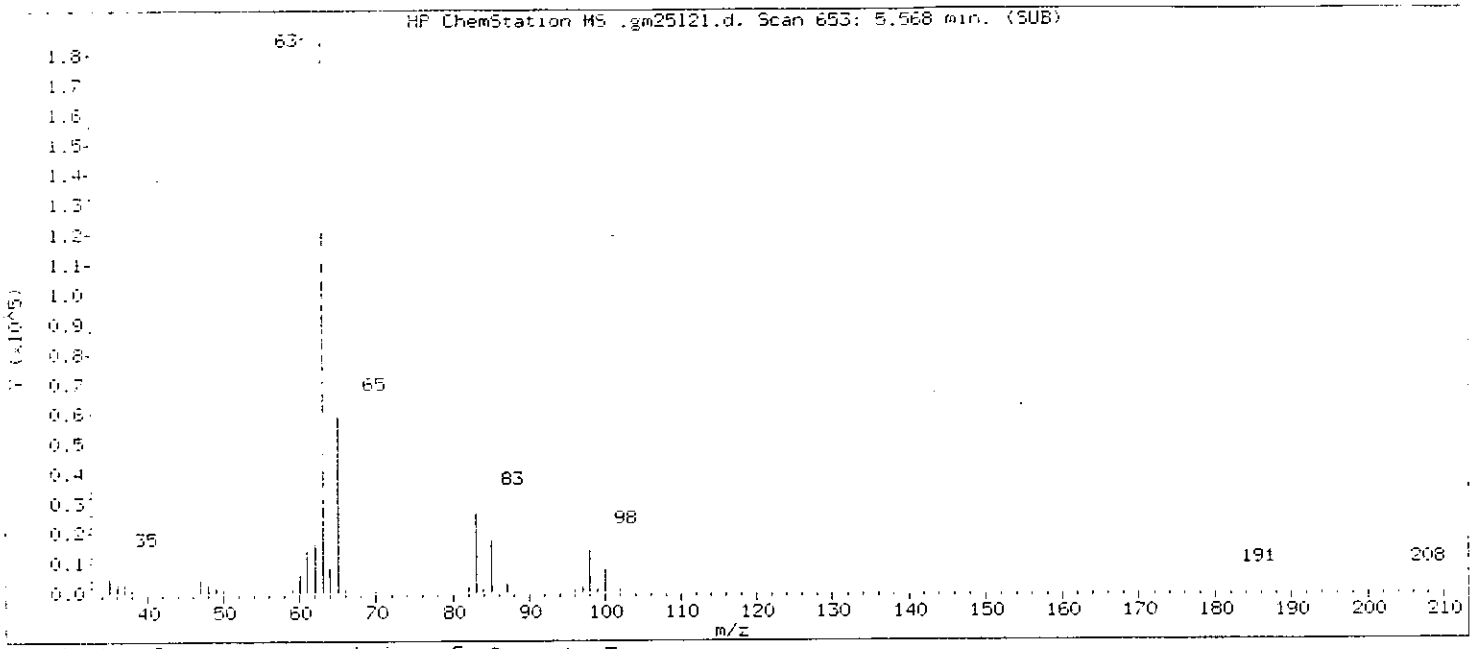
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 3/25/10

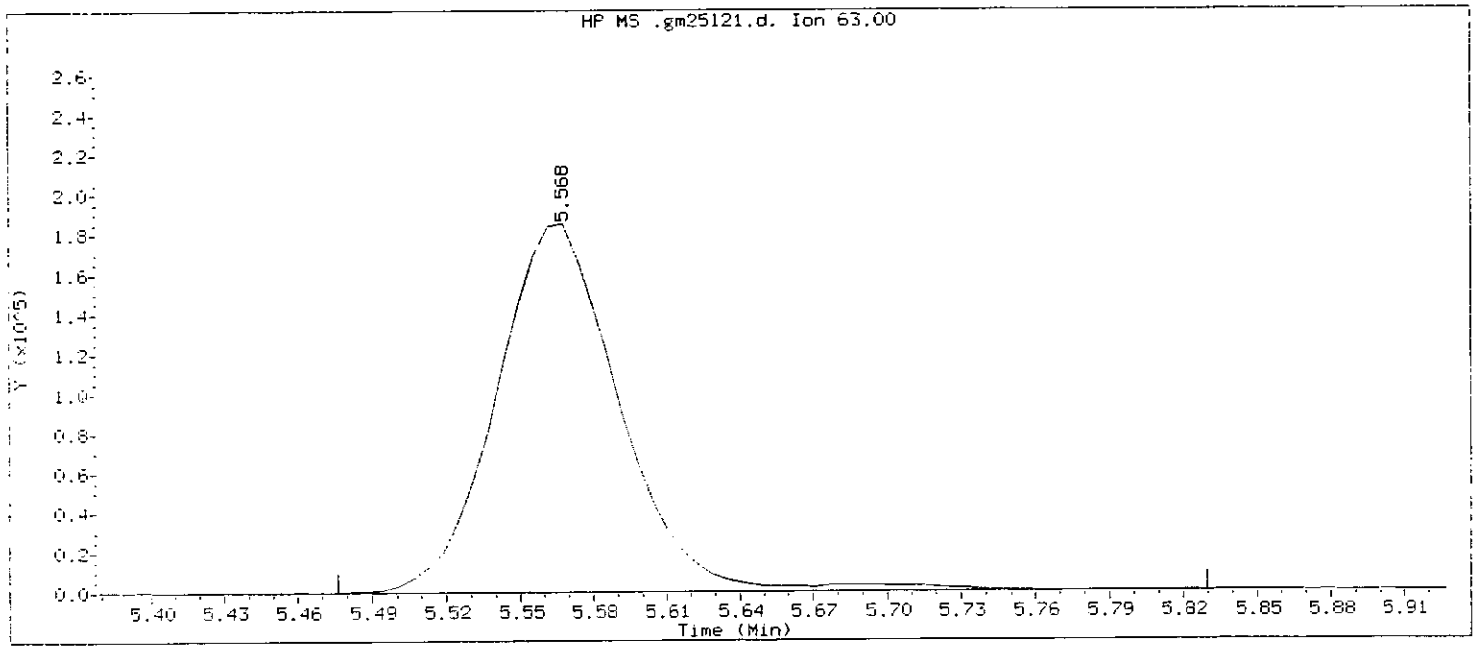
GC/MS audit/management approval: [signature] 03/31/10 MAT11 8226

Manual Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25121.d, generated on 03/25/2010 at 17:46

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/10mar25a.b/gm25121.d Instrument ID: HP16334.i
Injection date and time: 25-MAR-2010 17:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/10mar25a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 25-MAR-2010 14:52
Date, time and analyst ID of latest file update: 25-Mar-2010 17:45 lcm01518

Sample Name: LFBG41 Lab Sample ID: LFBG41

Compound Number : 22
Compound Name : 1,1-Dichloroethane
Scan Number : 653
Retention Time (minutes): 5.568
Quant Ion : 63
Area : 650901
Concentration (ug/L) : 4.9336
Integration start scan : 637 Integration stop scan: 695
Y at integration start : 0 Y at integration end: 0

WAT11 8221

Original Integration Report for data file /chem2/HP16334.i/10mar25a.b/gm25121.d, generated on 03/25/2010 at 17:46

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

GC/MS Volatiles pH Log

Batch: G100842AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
5932646	<2	3/25/2010	LCM01518	38A
5932647	<2	3/25/2010	LCM01518	38A
5932648	<2	3/25/2010	LCM01518	38A
5932649	<2	3/25/2010	LCM01518	38A
5932650	<2	3/25/2010	LCM01518	38A
5932650	<2	3/25/2010	JML 1693	38B
5932651	<2	3/25/2010	LCM01518	38A
5932652	<2	3/25/2010	LCM01518	38A

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP16334 **HP #29**

** Shift #1 Analyst: JML ** Shift #2 Analyst: _____ ** 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:

*

*524_REV4_WATERS

*

*

Data Directory Path is - c:\msdchem\1\data\10MAR23A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
GM23T01.D	25ngBFB	BFB FEB26-10	23 Mar 2010	12:42			MR
GM23X01.D	BLK	BLK	23 Mar 2010	12:53			NU
GM23I01.D	VSTD025	VSTD025	23 Mar 2010	13:14			MR
GM23I02.D	VSTD010	VSTD010	23 Mar 2010	13:36			MR
GM23I03.D	VSTD005	VSTD005	23 Mar 2010	13:58			MR
GM23I04.D	VSTD0.5	VSTD0.5	23 Mar 2010	14:20			MR
GM23I05.D	VSTD0.5	VSTD0.5	23 Mar 2010	14:42			NU
GM23B01.D	VBLKG37	VBLKG37	23 Mar 2010	15:03	G100821AA		MR
GF23L01.D	LFBG37	LFBG37	23 Mar 2010	15:27	G100821AA		MR

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP16334 **HP #29**

** Shift #1 Analyst:____JML____** 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:

_____
_____524_REV4_WATERS_____
_____
_____

Data Directory Path is - c:\msdchem\1\data\10MAR25A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
GM25T01.D	25ngBFB	BFB FEB26-10	25 Mar 2010	09:20			MR
GM25C01.D	VSTD010	VSTD010	25 Mar 2010	09:39			MR
GM25B01.D	VBLKG40	VBLKG40	25 Mar 2010	10:00	G100841AA		MR
GM25L01.D	LFBG40	LFBG40	25 Mar 2010	10:21	G100841AA		MR
GM25S01.D	CPS3A	5927761	25 Mar 2010	11:02	G100841AA	2	F
GM25S02.D	CPS3ADL	5927761	25 Mar 2010	11:24	G100841AA	20	MR
GM25S03.D	WE2RB	5927762	25 Mar 2010	11:46	G100841AA	10	F
GM25S04.D	WE2RBDL	5927762	25 Mar 2010	12:07	G100841AA	100	MR
GM25S05.D	FB01-	5927763	25 Mar 2010	12:29	G100841AA		MR
GM25S06.D	OBTB-	5927764	25 Mar 2010	12:54	G100841AA		MR
GM25S07.D	169N-	5933060	25 Mar 2010	13:15	G100841AA		MR
GM25S08.D	168N-	5933061	25 Mar 2010	13:36	G100841AA		MR
GM25S09.D	167P-	5933062	25 Mar 2010	13:57	G100841AA		MR
GM25S10.D	21EAR	5928075	25 Mar 2010	14:18	G100841AA		MR
GM25S11.D	17VER	5928077	25 Mar 2010	14:40	G100841AA		MR
GM25S12.D	VANVE	5932371	25 Mar 2010	15:01	G100841AA		MR
GM25S13.D	VANVB	5932372	25 Mar 2010	15:23	G100841AA		MR
GM25S14.D	VANVI	5932373	25 Mar 2010	15:44	G100841AA		MR
GM25S15.D	B24O2	5932040	25 Mar 2010	16:06	G100841AA	10	MR
GM25S16.D	B39O1	5932041	25 Mar 2010	16:28	G100841AA	10	MR
GM25B21.D	VBLKG41	VBLKG41	25 Mar 2010	16:49	G100842AA		MR
GM25L21.D	LFBG41	LFBG41	25 Mar 2010	17:11	G100842AA		MR
GM25S21.D	WRES1	5932646	25 Mar 2010	18:04	G100842AA		MR
GM25S22.D	WHGPR	5932647	25 Mar 2010	18:26	G100842AA		MR
GM25S23.D	WRE15	5932648	25 Mar 2010	18:47	G100842AA		MR
GM25S24.D	WRE16	5932649	25 Mar 2010	19:09	G100842AA		MR
GM25S25.D	WBREM	5932650	25 Mar 2010	19:30	G100842AA		F
GM25S26.D	WBREMDL	5932650	25 Mar 2010	19:52	G100842AA	10	MR
GM25S27.D	WRES2	5932651	25 Mar 2010	20:13	G100842AA		MR
GM25S28.D	WCLTB	5932652	25 Mar 2010	20:35	G100842AA		MR

WAT11 8224

CompuChem

A Division Of

Liberty Analytical Corp.

4/8/2010

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 1003175

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,

Diane Boyd

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: DRAPER **Work:** 1003175

Project: WATAUGA COUNTY LANDFILL 6520-39 **Sdg:** DRAFT 1003175

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1003175-01	S-1	Water	3/18/10 12:35 pm	3/19/10 9:30 am
1003175-02	S-2	Water	3/18/10 12:45 pm	3/19/10 9:30 am
1003175-03	S-3	Water	3/18/10 12:15 pm	3/19/10 9:30 am
1003175-04	S-4	Water	3/18/10 1:55 pm	3/19/10 9:30 am
1003175-05	S-5	Water	3/18/10 1:05 pm	3/19/10 9:30 am
1003175-06	S-6	Water	3/18/10 2:35 pm	3/19/10 9:30 am
1003175-07	TRIP BLANK	Water	2/4/10 12:00 am	3/19/10 9:30 am
1003175-08	VHBLKXP	Water	3/19/10 12:00 am	3/19/10 9:30 am

I. SAMPLE DATA PACKAGE

DOCUMENT SOM01.2

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, if applicable. The sample data package consists of the following:

A. SDG Narrative

B. Traffic Report/Chain of Custody Records (TR/COC)

C. Volatiles Data

D. Semivolatiles Data

E. Pesticides Data

F. Aroclors Data

LAB CODE: LIBRTY

CONTRACT #:

CASE #:

SDG #: 1003175

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 # 1003175
SOW # SOM01.2

SAMPLE IDENTIFICATIONS:		**S-1**	**S-2**	**S-3**
S-4	**S-5**	**S-6**	**TRIP BLANK**	

The 7 aqueous samples listed above were received intact, properly refrigerated at 0.4°C, in sealed shipping containers, on March 19, 2010, with proper documentation. All samples listed above were scheduled for the requested analysis of the volatile fraction only. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Multi-Media, Multi-Concentration Statement of Work (SOW), and Document SOM01.2. All pertinent Quality Assurance Notices are included in the narrative section.

Volatiles Low

Analysis holding time requirements were met for all of the samples in this SDG.

The pH value for these samples was equal to 1.

There were volatile Project/Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in one of these seven samples.

Tentatively Identified Compounds (TICs) were found in one of these seven samples.

No Total Alkanes were found in these samples.

All of the deuterated monitoring compounds (DMCs) met recovery criteria with no more than three DMCs failing.

All of the internal standards met response and retention time criteria in the analyses of these samples.

In a response to a Statement of Work Interpretation, the Organic Contract Laboratory Program Office stated that if the Mass Spectral Interpretation Specialist determines a TIC to be a laboratory artifact (including artifacts from the DMC solution), there is no need to report it. However, all TICs not reported due to a Mass Spectral Interpretation Specialist's assessment should be noted in the SDG Narrative. There are laboratory artifacts (including artifacts from the DMC solution) not reported on the Forms 1J. Their approximate retention time is as follows:
11.22 min. Laboratory artifact
These peaks are present in the standards, blanks, and samples.

No Manual integrations were performed on any of the process files associated with this SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The associated method blank and the storage blank met all quality control criteria.

No matrix spike/matrix spike duplicate (MS/MSD) samples were requested for the volatile fraction with this SDG.

As per the SOW, an example calculation is attached for Vinyl Chloride-d_3 in sample S-1.

I certify that this Sample Data Package complies 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 Sample Data Package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Quentisha Forrester
Analyst II
April 8, 2010

CASE:
SDG: 1003175

Example Calculation for the Volatile Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: Vinyl chloride-d3 from VSTD050XD

Ax=	253783
Ais=	692026
Cis=	250
Cx=	250
RRF=	0.367

Mean RRF from ICAL 0.372

Concentration Calculation

Concentration(ug/L)=(Ax*Is*Df)/(Ais*RRF*Vo)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Relative response factor from the Initial calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Vinyl chloride-d_3 from S-1

Ax=	218778
Ais=	543769
Is=	250
Mean RRF=	0.372
Vo=	5
Df=	1

Concentration(ug/L)= 54

GC and GC/MS Column and Trap Specifications Table

SDG #: 1003175

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

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.

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 <u>are not combined</u> 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. Traffic Report/Chain of Custody Records (TR/COC)

The contractor shall include a copy of the TR/COCs for all of the samples in the SDG. The TR/COCs 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/COC are in the same data package, the Contractor shall submit a copy of the SDG cover sheet with copies of the TR/COCs.

CHAIN OF CUSTODY RECORD

12

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. Potter **Address:** 842 West King Street?/Courthouse, Suite 1 Boone, NC 28607 **Phone:** (828) 264-5305 **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:** February 2010 Semiannual Assess. Monitoring Event **DAA JN:** 6520-39 **Lab JN:**	**Project Specific (PS) or Batch (B) QC:** ☑PS ☐B **Sample Collection for Project Complete? (See Note 1)** ☑YES ☐NO **Carrier:** _____ **Tracking Number:** _____

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative
A HCL; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; 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 5: Sample Container Type
P Plastic; V VOA; AG Amber Glass; CG Clear Glass

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: 2010	Time	Box 1: Matrix	Number of Bottles	40 ml CLP VOLATILES OLMO 4.3 latest update	JLP 2.24.2010							
S-1	3/18	1235	SW	3	X					1003175-01			
S-2	3/18	1245	SW	3	X					-02			
S-3	3/18	1215	SW	3	X					-03			
S-4	3/18	1355	SW	3	X					-04			
S-5	3/18	1305	SW	3	X					-05			
S-6	3/18	1435	SW	3	X					-06			
Trip Blank	2/4		TB	3	X					-07			

GENERAL NOTES:
1. Level 4 deliverables with EDD & PDF.
2. Note addition of 4 new analytes to target analyte list from February 2009 event.

Clients Special Instructions: Level 4 deliverables w/ EDD & PDF.

VHBLKXP → 1003175-08

Received by lab in Good Condition ✓ Yes ____ No Custody Seal Intact ✓ Yes ____ No Temperature upon arrival 0.4°C Received on Ice ✓ Yes ____ No
Describe problems, if any: SN0015

Sampler Name (Print): Chris Branscome	Date: 03/16/10	#1 Relinquished by (Signature): [signature]	Date: 3/18/10	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Chris Branscome	Time: 2000	Company Name: DAA	Time: 1700	Company Name:	Time:	
Sampler Name (Print): Dale Slaughter	Date: 3/16/10	#1 Received by (Signature): Diane Byrd	Date: 3/19/10	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature: [signature]	Time: 2000	Company Name: CompuChem	Time: 0930	Company Name:	Time:	

2/6

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 & Trip Blank:

No.	PARAMETER	CAS RN
1	Benzene	71-43-2
2	Chloroethane (ethyl chloride)	75-00-3
3	Dichlorodifluromethane	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

Updated: 2/24/2009 - JCF

KFC - 2/19/2009
\\bbg-files\projects\admin\divisions\envr\templates\bburg eteam temp\field events\watauga\pre-event set up\2009-coremw's,surf,& res.parameterlists.doc 11/25/98 3:04 PM

9/5

1003175

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1003175** **CASE:**	**Status:**	**Reviewed**

Report To:
DRAPER
JANET FRAZIER
2206 SOUTH MAIN STREET
BLACKSBURG, VA 24060
Phone: (540)552-0444
Fax: -

Invoice To:
WATAUGA COUNTY, NC
MR. J.V. POLTER
842 WESTKING STREET/COURTHOUSE, SUITE 1
BOONE, NC 28607
Phone :-
Fax: -

Date Due: 04/08/2010 00:00 (20 day TAT)
Received By: Cathy Dover — Date Received: 03/19/2010 09:30
Logged In By: Cathy Dover — Date Logged In: 03/22/2010 22:20

J & B Flags?: **YES** Metals ND to?	TICS?:**EPA-TICS** Spike Level: **FULL Spike**	Deliverable: **Style 9**	EDD : **36) DRAPER ACCESS**

SOM01.2 VOC LOW* RPT. WATAUGA.SUB

Analysis	Due	TAT	Expires	Received	Comments
1003175-01 S-1 [Water] Sampled 03/18/2010 12:35 Eastern					
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	
1003175-02 S-2 [Water] Sampled 03/18/2010 12:45 Eastern					
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	
1003175-03 S-3 [Water] Sampled 03/18/2010 12:15 Eastern					
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	
1003175-04 S-4 [Water] Sampled 03/18/2010 13:55 Eastern					
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	
1003175-05 S-5 [Water] Sampled 03/18/2010 13:05 Eastern					
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	
1003175-06 S-6 [Water] Sampled 03/18/2010 14:35 Eastern					
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	
1003175-07 TRIP BLANK [Water] Sampled 02/04/2010 00:00 Eastern					
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	
1003175-08 VHBLKXP [Water] Sampled 03/19/2010 00:00 Eastern					**SOM01.2 LOW STORAGE BLK**
SOM01.2 VOA LOW	04/08/2010 16:00	20	03/29/2010 09:30	03/19/2010 09:30	

1003175

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1003175** **CASE:**	**Status:**	**Reviewed**

VOA Internal Chain of Custody Sheet

Matrix Water **Batch**: 0032407 **Status**: Batched **Analysis**: SOM01.2 VOA LOW

Lab Id	Client Id	Received	Container	Extraction
1003175-01 A	S-1	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW
1003175-02 A	S-2	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW
1003175-03 A	S-3	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW
1003175-04 A	S-4	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW
1003175-05 A	S-5	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW
1003175-06 A	S-6	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW
1003175-07 A	TRIP BLANK	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW
1003175-08 A	VHBLKXP	03/19/10	01b_40mL VOA, cool, H	SOM VOA WATER LOW

Relinquished By	Date/Time	Received By	Date/Time
#2B	3-24-10	JAO	3-24-10
JAO	3-24-10	#2B	3-24-10

C. Volatile Data

1. Q C Summary
2. Sample Data
3. Standards Data
4. Raw Q C Data
5. Trace SIM Data (Optional)

LAB CODE: LIBRTY CONTRACT #:

CASE #: SDG #: 1003175

1. Q C Summary

a. Deuterated Monitoring Compound (DMC) Recovery
(Form II VOA)

b. Matrix Spike/Matrix Spike Duplicate Recovery
(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. Deuterated Monitoring Compound (DMC) Recovery (Form II VOA)

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	S-1	108	115	91	63	100	103	98
02	S-2	108	115	90	68	101	104	98
03	S-3	108	111	88	65	98	102	95
04	S-4	106	112	89	68	100	103	98
05	S-5	111	116	93	68	102	108	99
06	S-6	103	108	86	66	97	103	93
07	TRIP BLANK	105	111	88	65	98	103	93
08	VBLKHV	118	101	92	126	106	112	108
09	VHBLKXP	109	114	88	71	102	106	95
10								
11								
12								
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	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Value outside of contract required QC limits

Page 1 of 1

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	S-1	98	95	88	75	59	83	100	0
02	S-2	100	97	90	80	65	88	100	0
03	S-3	96	93	88	78	60	85	98	0
04	S-4	98	96	89	82	65	87	101	0
05	S-5	99	97	91	82	65	89	105	0
06	S-6	94	92	88	81	62	88	99	0
07	TRIP BLANK	93	92	87	79	62	85	97	0
08	VBLKHV	109	104	100	118	68	98	115	0
09	VHBLKXP	95	93	87	85	71	89	101	0
10									
11									
12									
13									
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	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Page 1 of 1

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III VOA)

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.

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKHV

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Lab File ID: 0032416-BLK1R91.d Lab Sample ID: 0032416-BLK1

Instrument ID: 5975hpms91

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 03/24/2010

Level: (TRACE or LOW/MED) LOW Time Analyzed: 1251

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	S-1	1003175-01	1003175-0191.d	1331
02	S-2	1003175-02	1003175-0291.d	1358
03	S-3	1003175-03	1003175-0391.d	1425
04	S-4	1003175-04	1003175-0491.d	1453
05	S-5	1003175-05	1003175-0591.d	1520
06	S-6	1003175-06	1003175-0691.d	1547
07	TRIP BLANK	1003175-07	1003175-0791.d	1614
08	VHBLKXP	1003175-08	1003175-0891.d	2145
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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.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBXD

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Lab File ID: 0C05012-TUN191.d BFB Injection Date: 03/05/2010

Instrument ID: 5975hpms91 BFB Injection Time: 2256

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	20.3	
75	30.0 - 80.0% of mass 95	54.7	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.7	(1.0)1
174	50.0 - 120% of mass 95	66.5	
175	5.0 - 9.0% of mass 174	5.0	(7.5)1
176	95.0 - 101% of mass 174	63.6	(95.6)1
177	5.0 - 9.0% of mass 176	4.3	(6.7)2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010XD	0C05012-CAL2	05012-CAL291	03/05/2010	2312
02	VSTD005XD	0C05012-CAL1	05012-CAL191	03/05/2010	2339
03	VSTD200XD	0C05012-CAL5	05012-CAL591	03/06/2010	0007
04	VSTD100XD	0C05012-CAL4	05012-CAL491	03/06/2010	0034
05	VSTD050XD	0C05012-CAL3	05012-CAL391	03/06/2010	0102
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBHT

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Lab File ID: 0C23004-TUN191.d BFB Injection Date: 03/23/2010

Instrument ID: 5975hpms91 BFB Injection Time: 1314

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	20.0	
75	30.0 - 80.0% of mass 95	54.8	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.2	
173	Less than 2.0% of mass 174	0.4	(0.7)1
174	50.0 - 120% of mass 95	63.0	
175	5.0 - 9.0% of mass 174	4.6	(7.4)1
176	95.0 - 101% of mass 174	60.4	(95.9)1
177	5.0 - 9.0% of mass 176	4.2	(6.9)2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050HT	0C23004-CCV1	23004-CCV191	03/23/2010	1431
02	VSTD050HU	0C23004-CCV2	23004-CCV2R91	03/24/2010	0107
03	VSTD050HV	0C23004-CCV3	23004-CCV391	03/24/2010	1047
04	VBLKHV	0032416-BLK1	32416-BLK1R91	03/24/2010	1251
05	S-1	1003175-01	003175-0191.(	03/24/2010	1331
06	S-2	1003175-02	003175-0291.(	03/24/2010	1358
07	S-3	1003175-03	003175-0391.(	03/24/2010	1425
08	S-4	1003175-04	003175-0491.(	03/24/2010	1453
09	S-5	1003175-05	003175-0591.(	03/24/2010	1520
10	S-6	1003175-06	003175-0691.(	03/24/2010	1547
11	TRIP BLANK	1003175-07	003175-0791.(	03/24/2010	1614
12	VHBLKXP	1003175-08	003175-0891.(	03/24/2010	2145
13	VSTD050HW	0C23004-CCV4	23004-CCV491	03/24/2010	2212
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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.

x

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050XD Date Analyzed: 03/06/2010

Lab File ID (Standard): 0C05012-CAL391.d Time Analyzed: 0102

Instrument ID: 5975hpms91 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	696157		12.49		692026		10.26		406427		14.15	
	UPPER LIMIT	1392314		12.99		1384052		10.76		812854		14.65	
	LOWER LIMIT	348079		11.99		346013		9.76		203214		13.65	
	EPA SAMPLE NO.												
01	VSTD010XD	676861		12.49		675511		10.26		396294		14.15	
02	VSTD005XD	635117		12.49		636794		10.26		366088		14.15	
03	VSTD200XD	691833		12.49		702361		10.26		404201		14.15	
04	VSTD100XD	721515		12.49		718815		10.26		414128		14.15	
05													
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IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

x

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HT Date Analyzed: 03/23/2010

Lab File ID (Standard): 0C23004-CCV191.d Time Analyzed: 1431

Instrument ID: 5975hpms91 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	681348		12.49		653342		10.27		369923		14.15	
	UPPER LIMIT	1362696		12.99		1306684		10.77		739846		14.65	
	LOWER LIMIT	340674		11.99		326671		9.77		184962		13.65	
	EPA SAMPLE NO.												
01	VSTD050HU	714842		12.49		690188		10.27		384935		14.15	
02													
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IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

x

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HU Date Analyzed: 03/24/2010

Lab File ID (Standard):)C23004-CCV2R91.c Time Analyzed: 0107

Instrument ID: 5975hpms91 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	714842		12.49		690188		10.27		384935		14.15	
	UPPER LIMIT	1429684		12.99		1380376		10.77		769870		14.65	
	LOWER LIMIT	357421		11.99		345094		9.77		192468		13.65	
	EPA SAMPLE NO.												
01	VSTD050HV	700704		12.49		689474		10.26		374217		14.15	
02													
03													
04													
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22													

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

x

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HV Date Analyzed: 03/24/2010

Lab File ID (Standard): 0C23004-CCV391.d Time Analyzed: 1047

Instrument ID: 5975hpms91 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	700704		12.49		689474		10.26		374217		14.15	
	UPPER LIMIT	1401408		12.99		1378948		10.76		748434		14.65	
	LOWER LIMIT	350352		11.99		344737		9.76		187109		13.65	
	EPA SAMPLE NO.												
01	VBLKHV	605077		12.49		555230		10.26		313228		14.15	
02	S-1	596108		12.49		543769		10.27		293024		14.15	
03	S-2	608276		12.50		558900		10.27		309519		14.15	
04	S-3	592997		12.49		538905		10.27		293884		14.15	
05	S-4	582784		12.49		539543		10.27		294079		14.15	
06	S-5	585871		12.49		530085		10.27		291715		14.15	
07	S-6	578848		12.49		524086		10.26		287823		14.15	
08	TRIP BLANK	578282		12.49		518719		10.27		289310		14.15	
09	VHBLKXP	562430		12.50		491709		10.27		278339		14.15	
10	VSTD050HW	636295		12.49		557382		10.27		367451		14.15	
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IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

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 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 target compounds, DMCs or internal standard compounds, or alkanes and are not listed on the volatile and semivolatile 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 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 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 in Exhibit C 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 - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-1

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-01

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0191.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-1

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-01

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0191.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

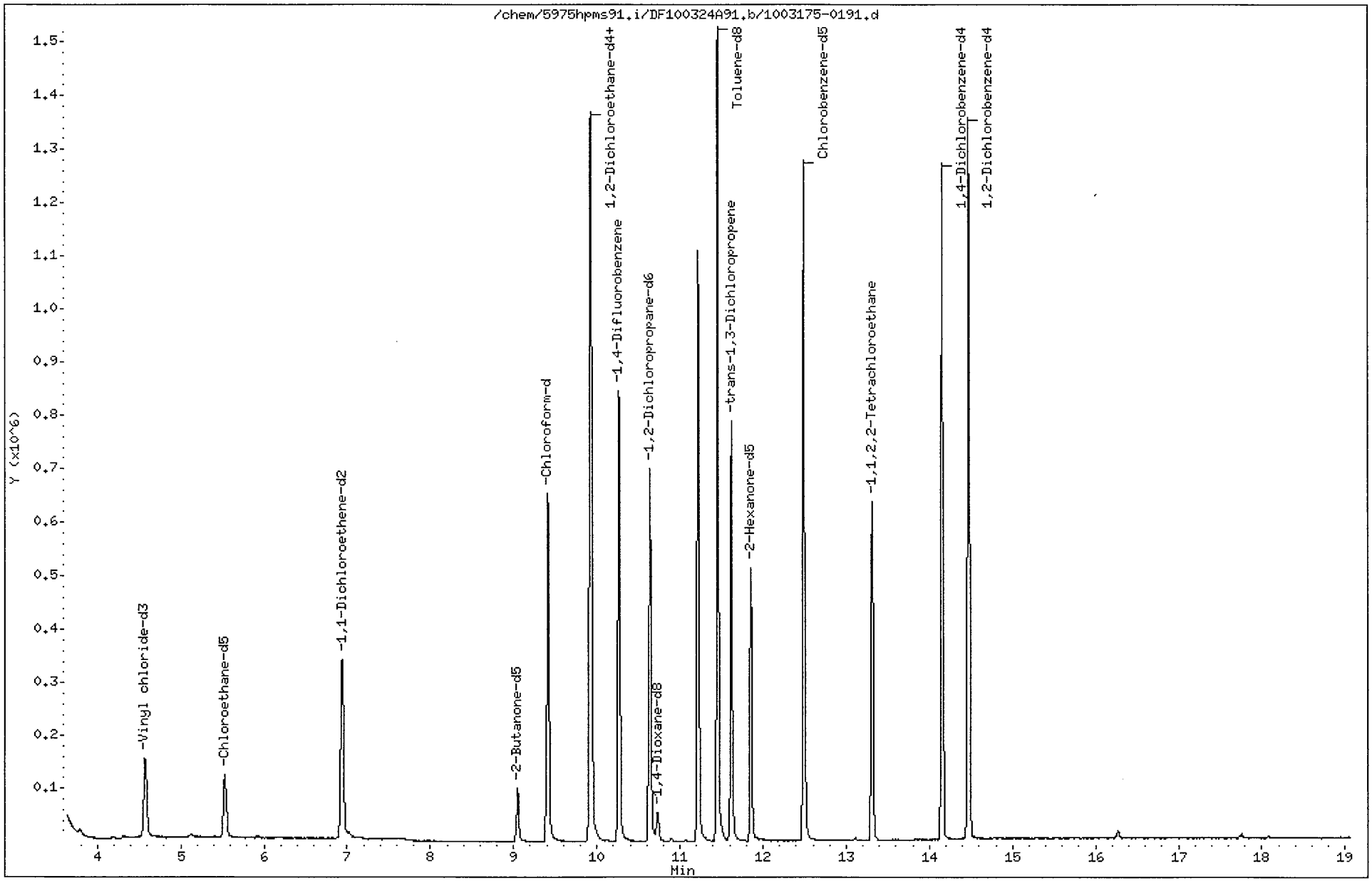
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d
Date : 24-MAR-2010 13:31
Client ID: S-1
Instrument: 5975hpms91.i
Sample Info: 1003175-01:JAO
Purge Volume: 5.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d
Lab Smp Id: 1003175-01 Client Smp ID: S-1
Inj Date : 24-MAR-2010 13:31
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-01:JAO
Misc Info : S-1
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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	1,4-Difluorobenzene	114	10.270	10.264	(1.000)	543769	250.000	
* 2	Chlorobenzene-d5	117	12.489	12.489	(1.000)	596108	250.000	
* 3	1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	293024	250.000	
$ 4	Vinyl chloride-d3	65	4.570	4.570	(0.445)	218778	270.176	54.0351
$ 5	Chloroethane-d5	69	5.527	5.527	(0.538)	162315	288.557	57.7113
$ 6	1,1-Dichloroethene-d2	63	6.935	6.935	(0.675)	315280	228.233	45.6466
$ 7	2-Butanone-d5	46	9.050	9.050	(0.881)	109577	313.507	62.7014
$ 8	Chloroform-d	84	9.410	9.410	(0.916)	511272	250.672	50.1343
$ 9	1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	347432	256.701	51.3402
$ 10	Benzene-d6	84	9.928	9.928	(0.795)	884599	243.780	48.7560
$ 11	1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	245027	243.816	48.7632
$ 12	Toluene-d8	98	11.452	11.452	(0.917)	884061	238.146	47.6292
$ 13	trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	367386	219.330	43.8661
$ 14	2-Hexanone-d5	63	11.855	11.849	(0.949)	130230	373.661	74.7322
$ 15	1,4-Dioxane-d8	96	10.727	10.727	(1.045)	29041	2940.40	588.080

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	273485	207.515	41.5030
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	326794	251.201	50.2401
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	4.320	4.320	(0.421)	5671	6.51567	1.30313(a)
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d

Date : 24-MAR-2010 13:31

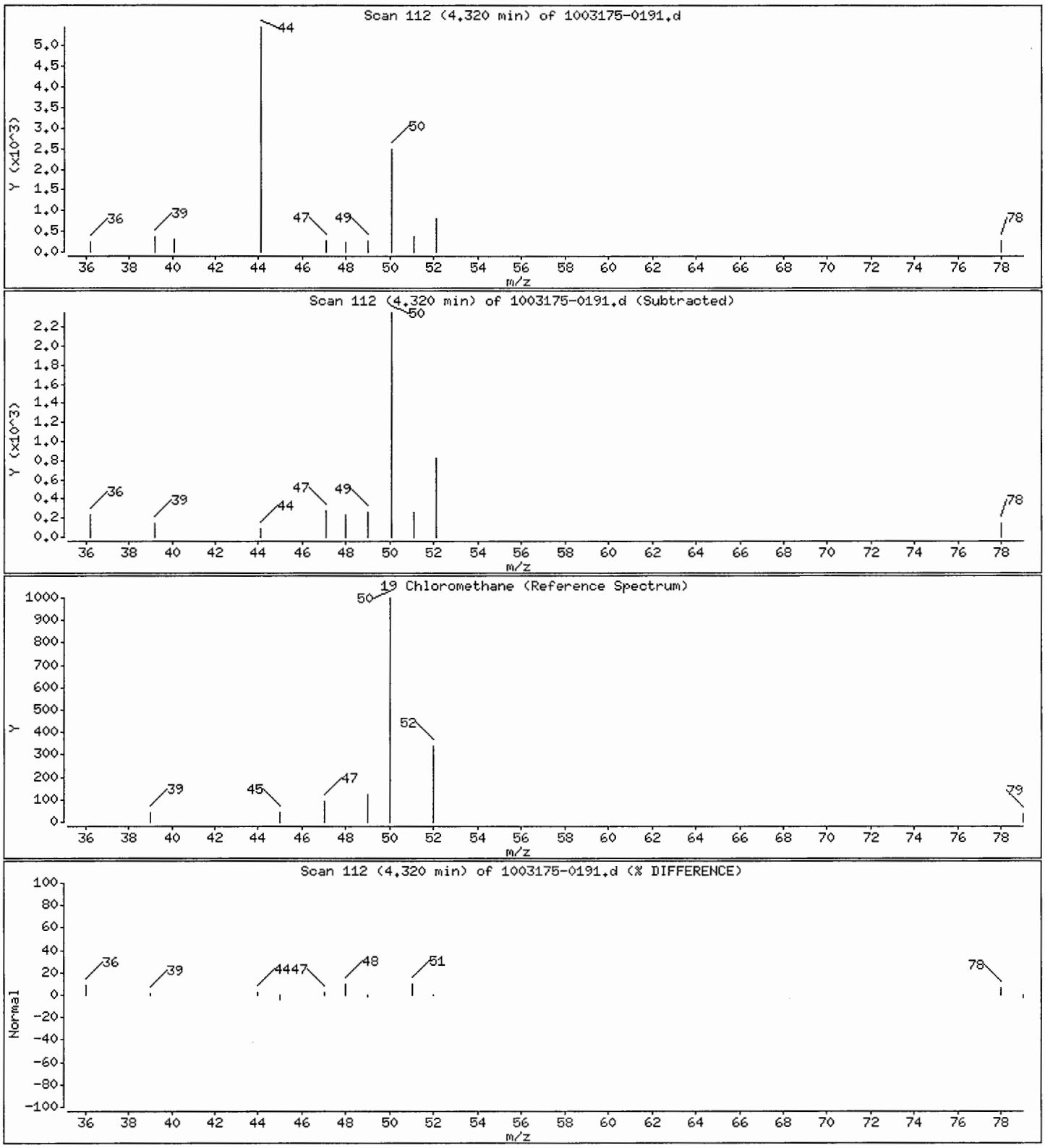
Client ID: S-1 Instrument: 5975hpms91.i

Sample Info: 1003175-01:JAO

Purge Volume: 5.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

19 Chloromethane Concentration: 1.30313 ug/L



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0191.d
Lab Smp Id: 1003175-01 Client Smp ID: S-1
Inj Date : 24-MAR-2010 13:31
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-01:JAO
Misc Info : S-1
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-2

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-02

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0291.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	16	
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	2.0	J
156-59-2	cis-1,2-Dichloroethene	0.96	J
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	1.1	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	0.58	J
106-46-7	1,4-Dichlorobenzene	2.2	J

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-2

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-02

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0291.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

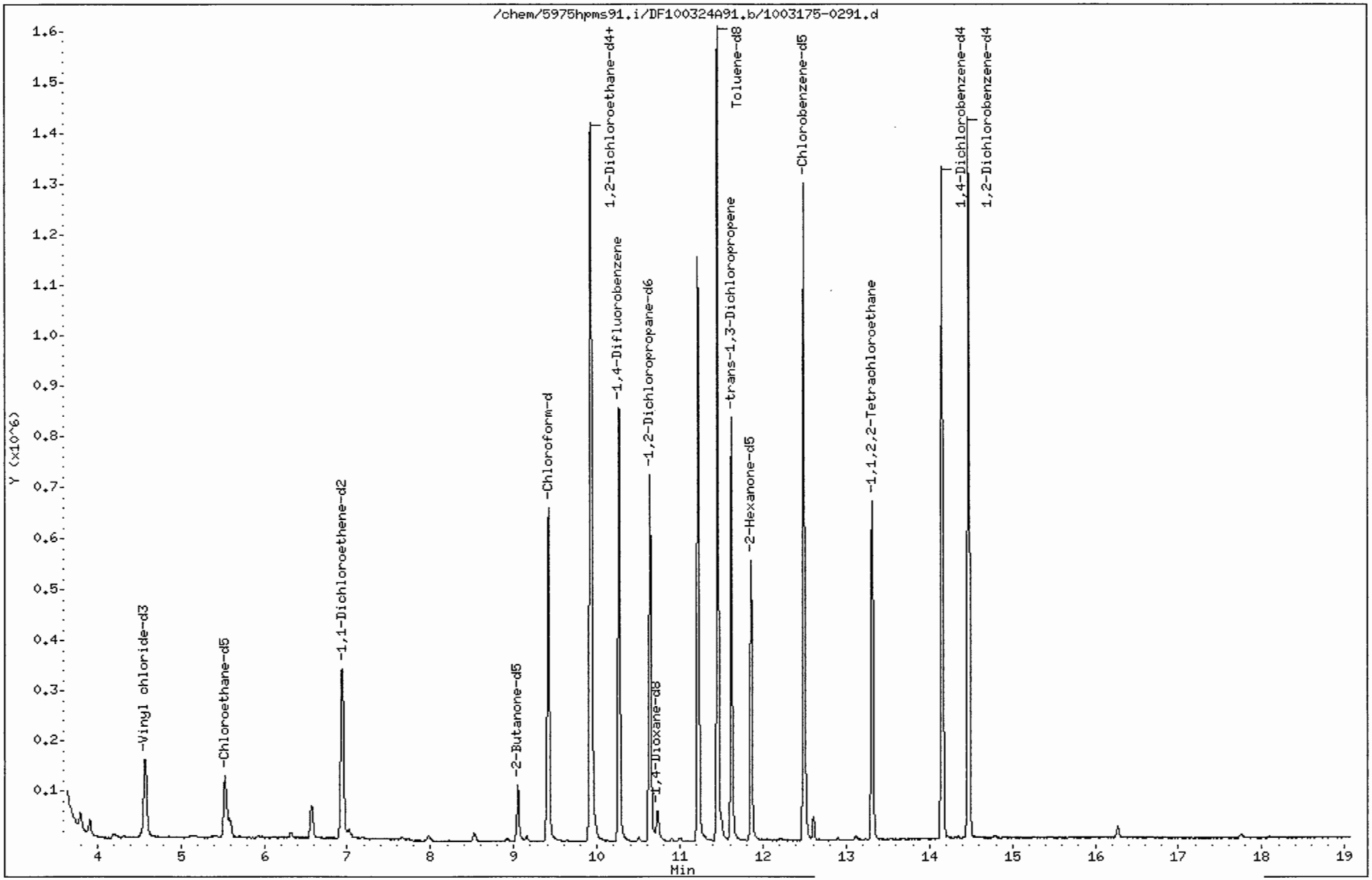
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.57	6.0	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d
Date : 24-MAR-2010 13:58
Client ID: S-2
Instrument: 5975hpms91.i
Sample Info: 1003175-02:JAO
Purge Volume: 5.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d
Lab Smp Id: 1003175-02 Client Smp ID: S-2
Inj Date : 24-MAR-2010 13:58
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-02:JAO
Misc Info : S-2
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.270	10.264	(1.000)	558900	250.000	
* 2 Chlorobenzene-d5	117	12.495	12.489	(1.000)	608276	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	309519	250.000	
$ 4 Vinyl chloride-d3	65	4.576	4.570	(0.446)	225699	271.177	54.2354
$ 5 Chloroethane-d5	69	5.533	5.527	(0.539)	166514	288.007	57.6015
$ 6 1,1-Dichloroethene-d2	63	6.941	6.935	(0.676)	319415	224.966	44.9932
$ 7 2-Butanone-d5	46	9.050	9.050	(0.881)	122796	341.816	68.3632
$ 8 Chloroform-d	84	9.416	9.410	(0.917)	530818	253.209	50.6418
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	362395	260.507	52.1015
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	910265	245.835	49.1670
$ 11 1,2-Dichloropropane-d6	67	10.642	10.635	(0.852)	256053	249.690	49.9381
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	915405	241.657	48.3313
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	385094	225.303	45.0606
$ 14 2-Hexanone-d5	63	11.855	11.849	(0.949)	141800	398.719	79.7438
$ 15 1,4-Dioxane-d8	96	10.733	10.727	(1.045)	32946	3245.47	649.095

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.065)	294613	219.075	43.8149
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	345086	251.125	50.2250
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	5.588	5.582	(0.544)	37622	82.4550	16.4910
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	7.002	7.008	(0.682)	4677	23.7295	4.74590(a)
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	7.984	7.977	(0.777)	9296	3.61368	0.722737(a)
32 1,1-Dichloroethane	63	8.526	8.526	(0.830)	15321	9.89915	1.97983(a)
33 cis-1,2-Dichloroethene	96	9.154	9.148	(0.891)	4180	4.82177	0.964355(a)
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	9.965	9.965	(0.798)	19606	5.37575	1.07515(a)
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	10.776	10.776	(1.049)	1950	183.217	36.6433(a)
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	11.501	11.501	(0.920)	8637	2.06470	0.412940(a)
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	12.507	12.513	(1.001)	8613	2.92274	0.584547(a)
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	12.611	12.605	(1.009)	10875	5.69655	1.13931(a)
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	24059	11.1518	2.23036(a)
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

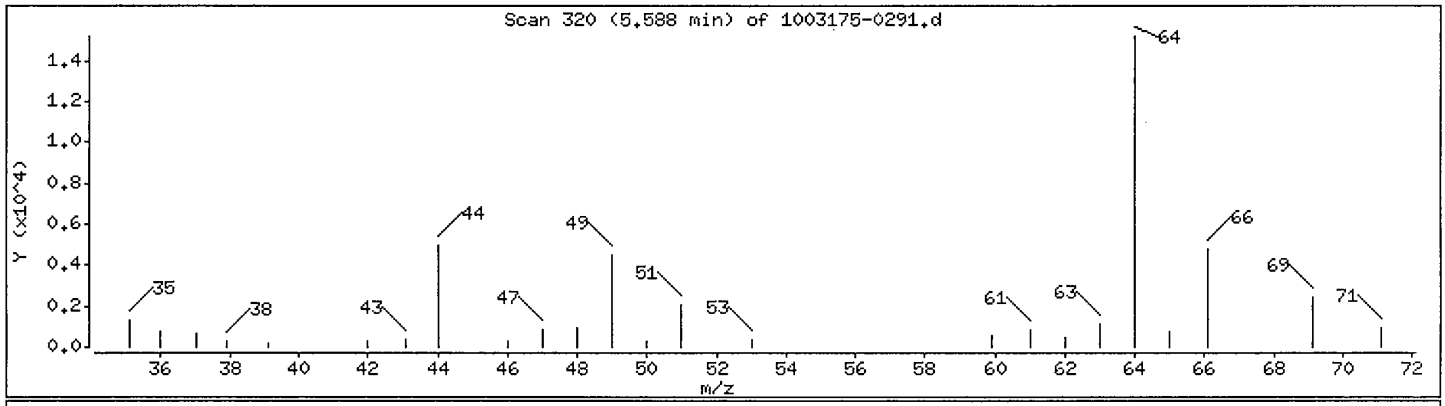
Client ID: S-2 Instrument: 5975hpms91.i

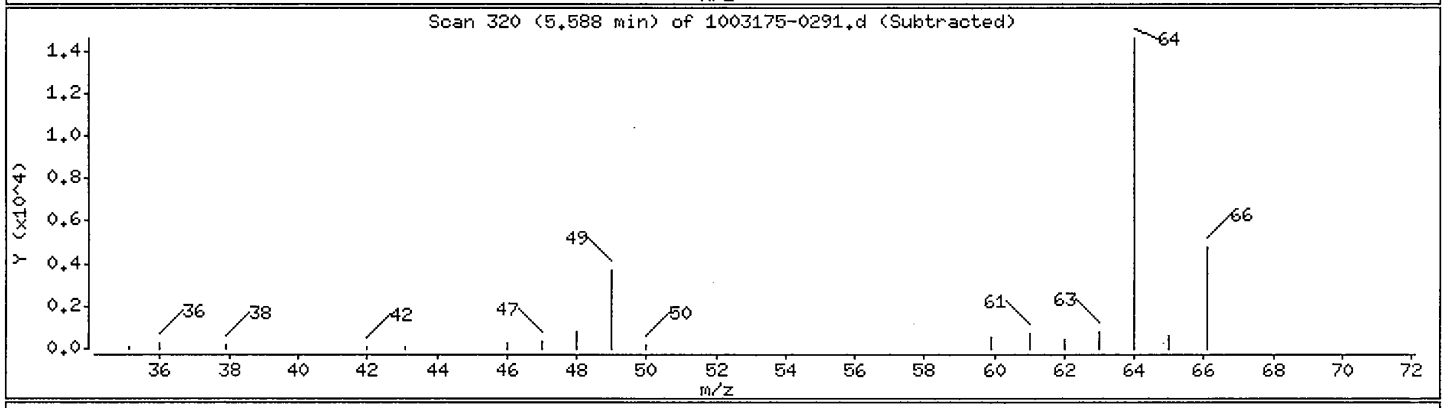
Sample Info: 1003175-02:JAO

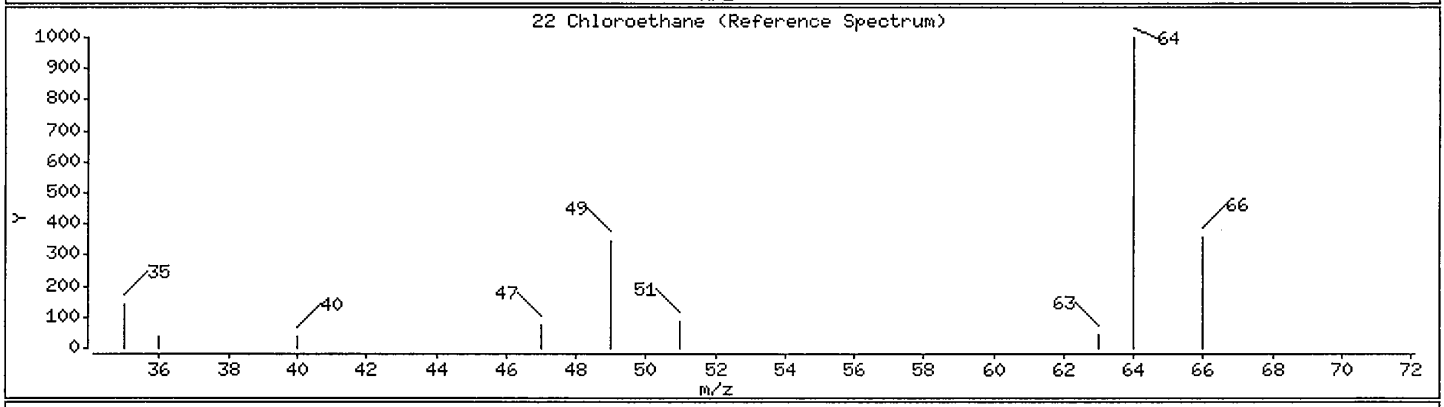
Purge Volume: 5.0 Operator: JAO

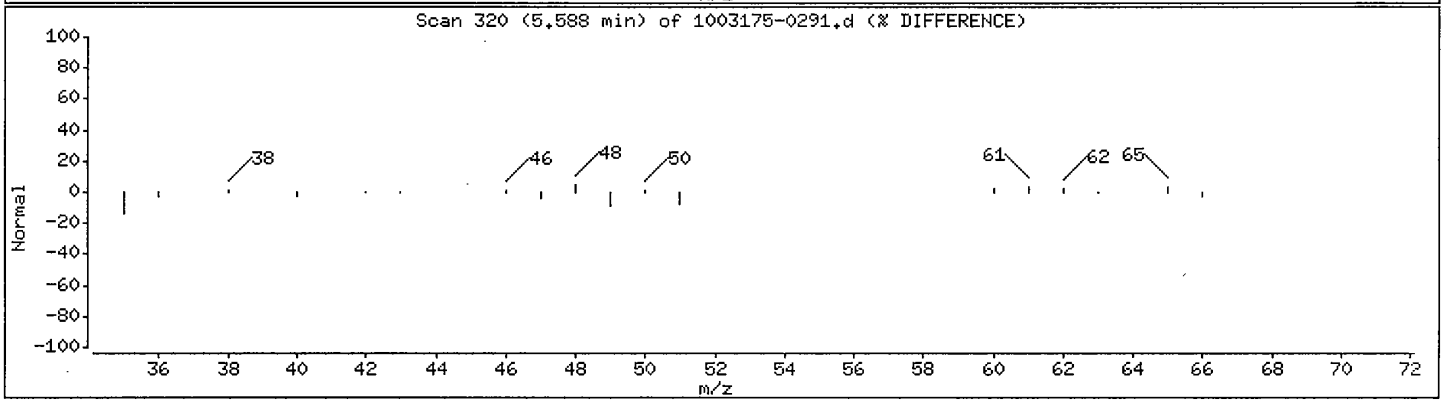
Column phase: SPB-624 Column diameter: 0.32

22 Chloroethane Concentration: 16.4910 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

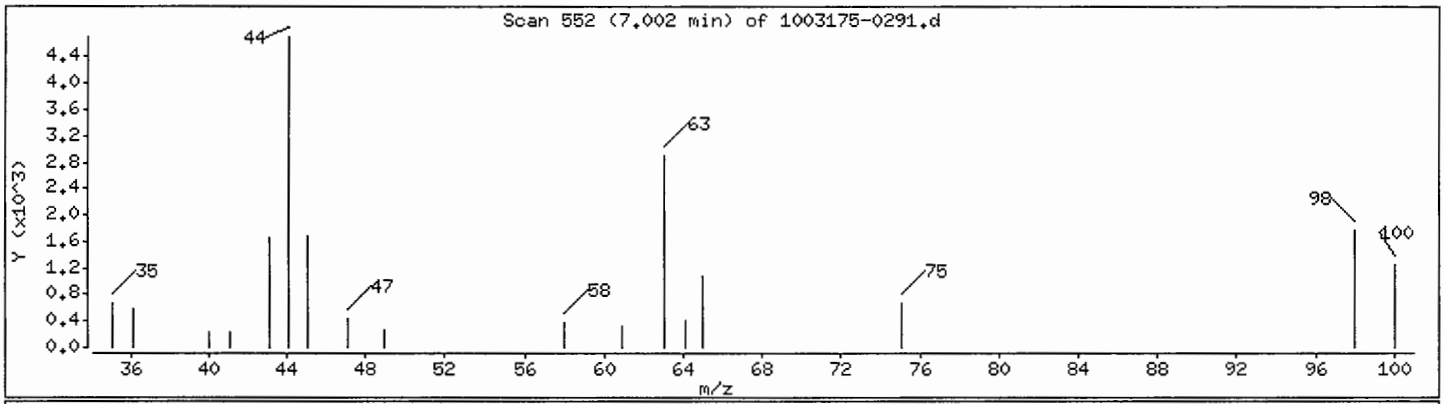
Client ID: S-2 Instrument: 5975hpms91.i

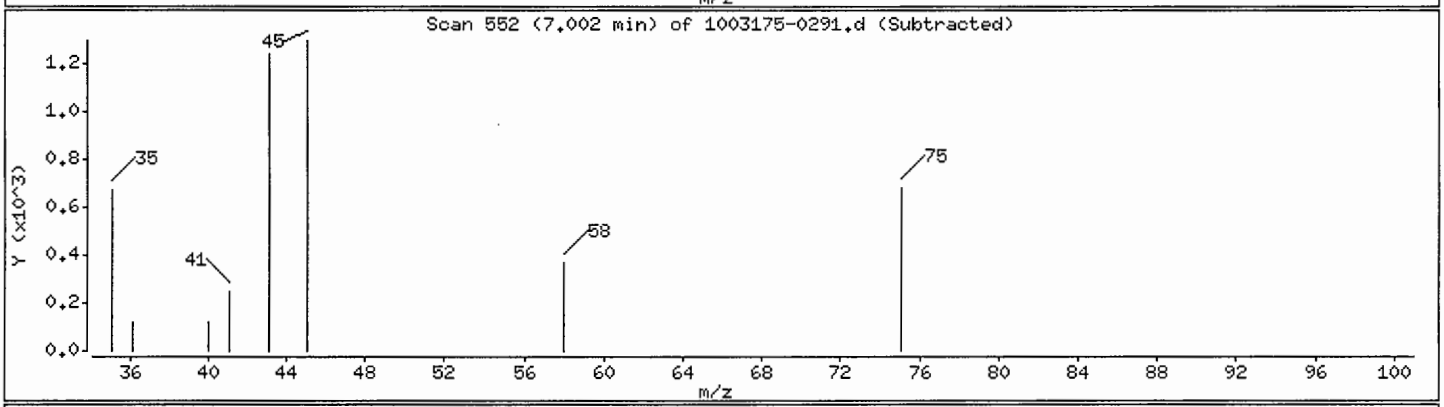
Sample Info: 1003175-02:JAO

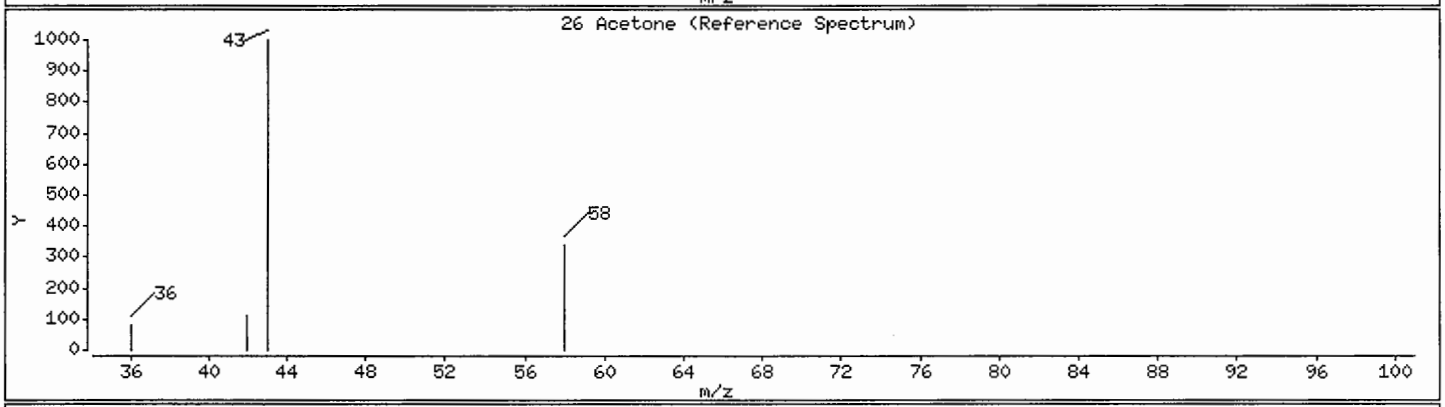
Purge Volume: 5.0 Operator: JAO

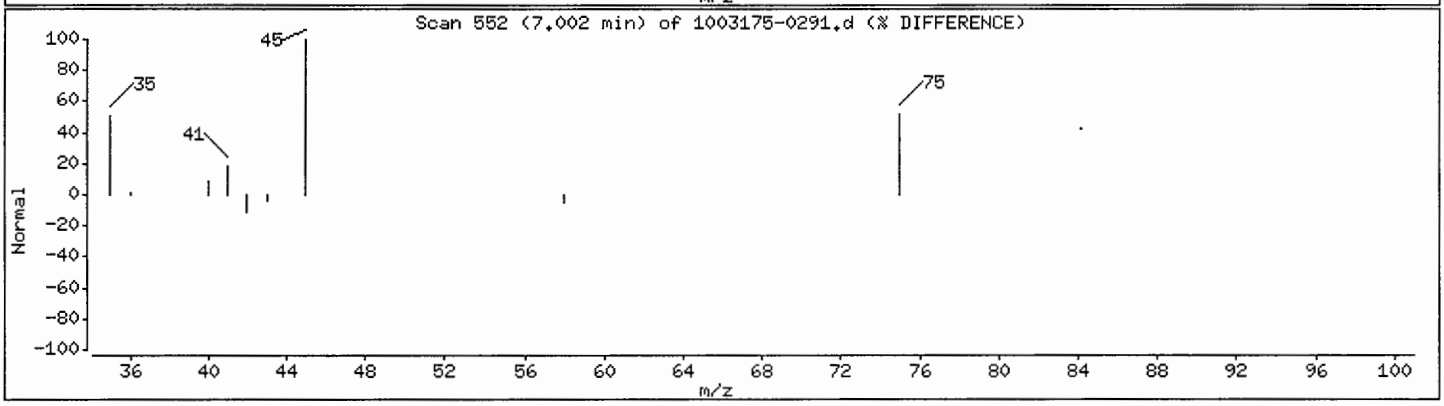
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 4.74590 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

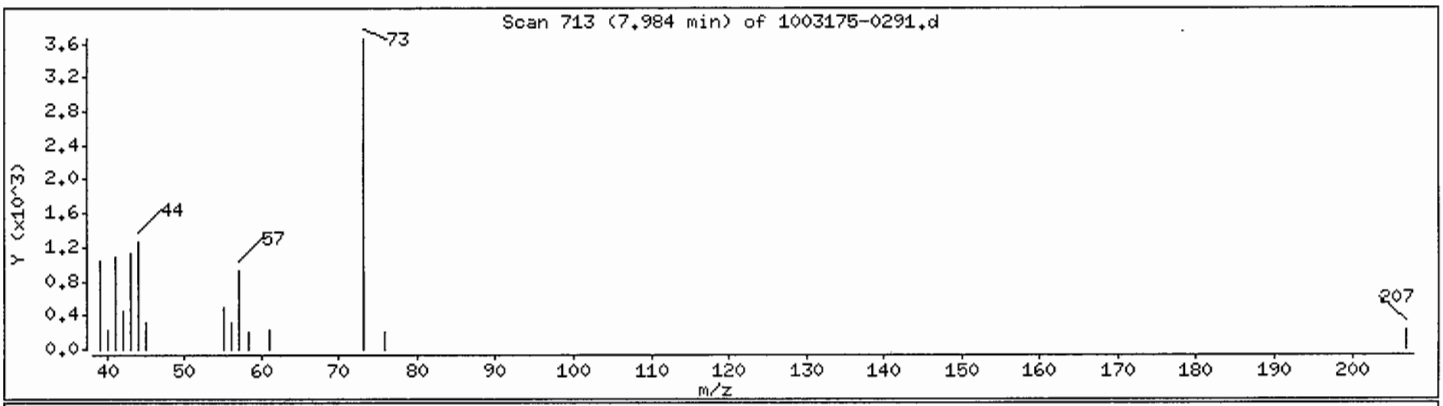
Client ID: S-2 Instrument: 5975hpms91.i

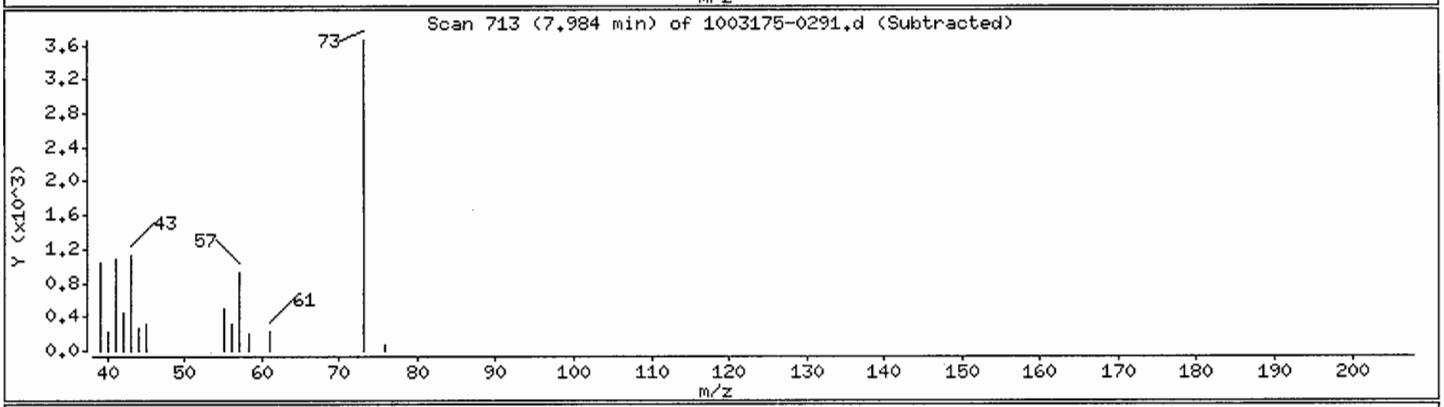
Sample Info: 1003175-02;JAO

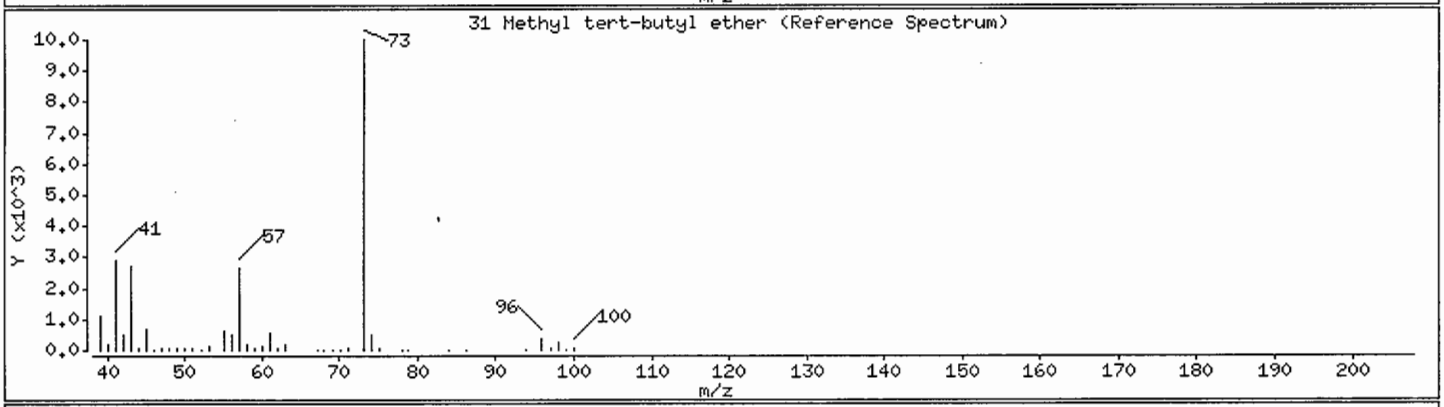
Purge Volume: 5.0 Operator: JAO

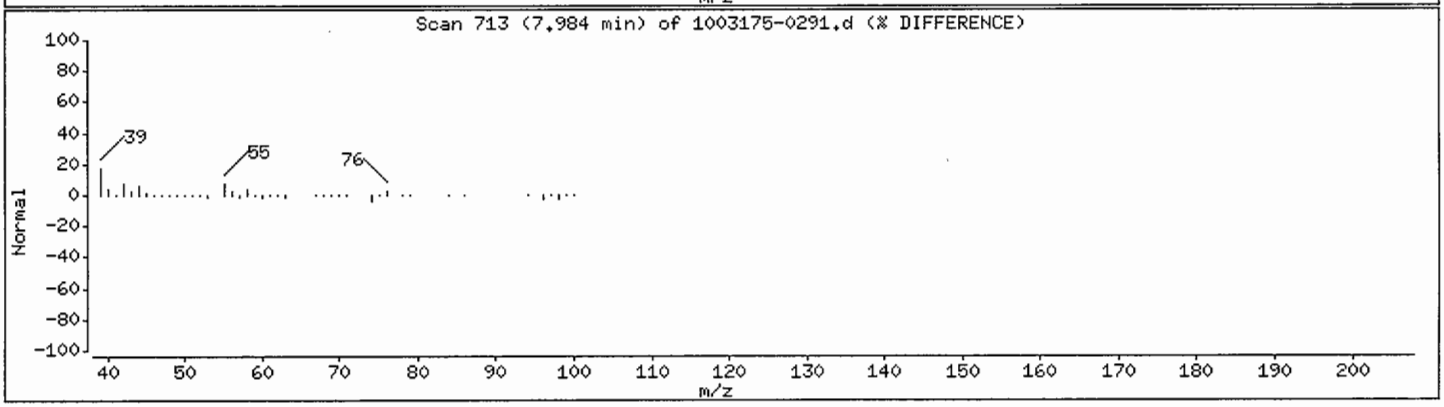
Column phase: SPB-624 Column diameter: 0.32

31 Methyl tert-butyl ether Concentration: 0.722737 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

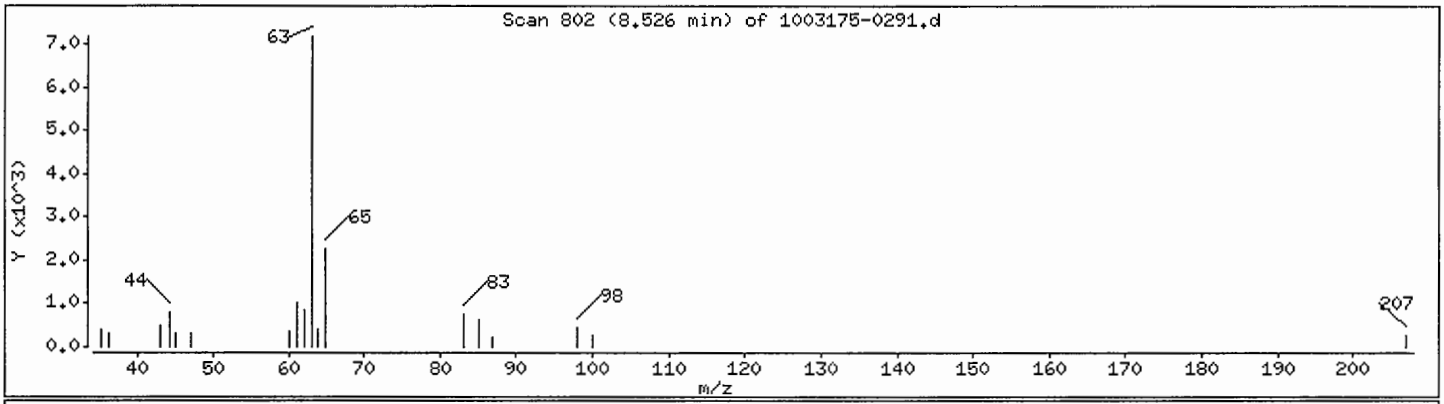
Client ID: S-2 Instrument: 5975hpms91.i

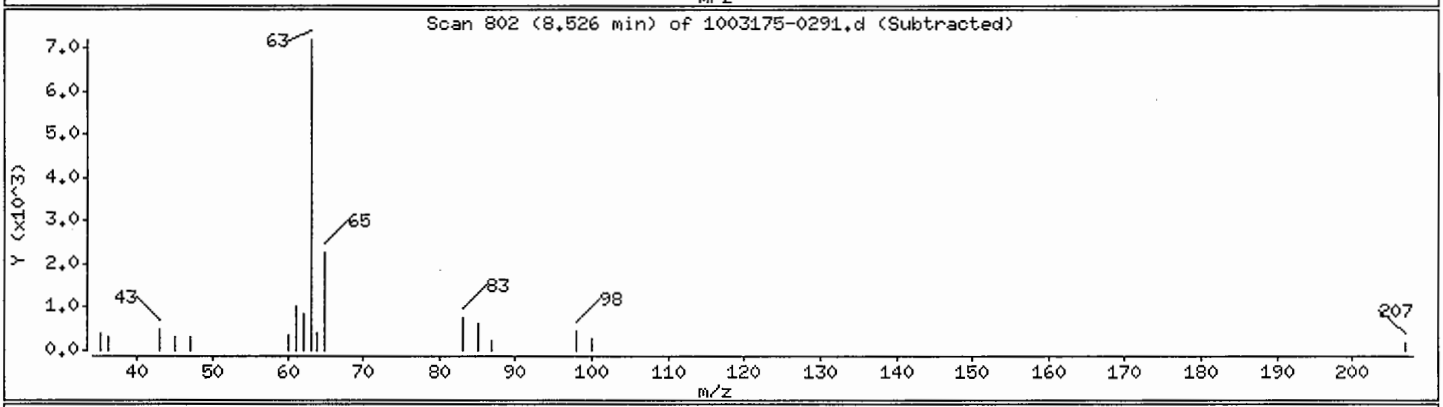
Sample Info: 1003175-02:JAO

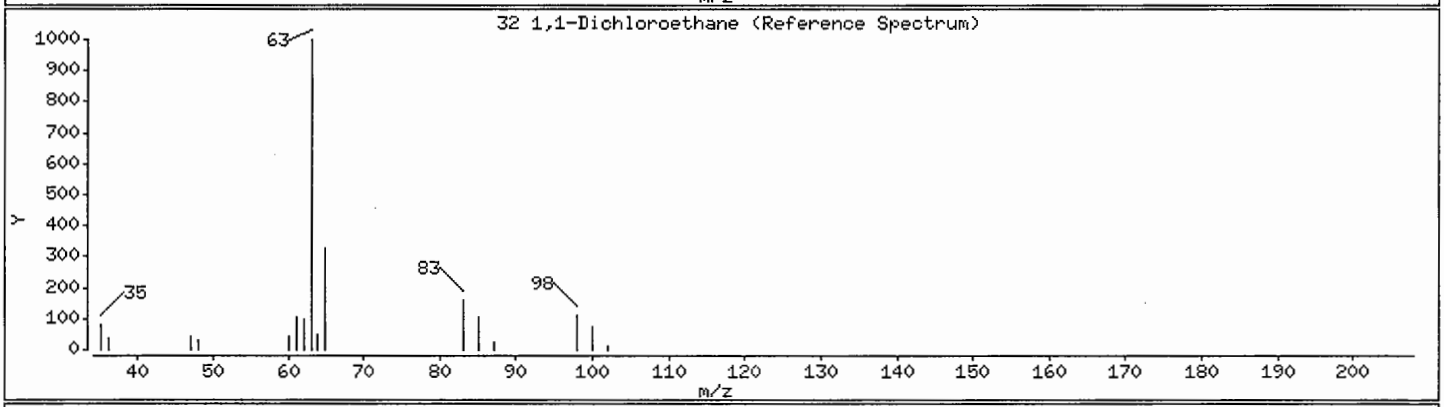
Purge Volume: 5.0 Operator: JAO

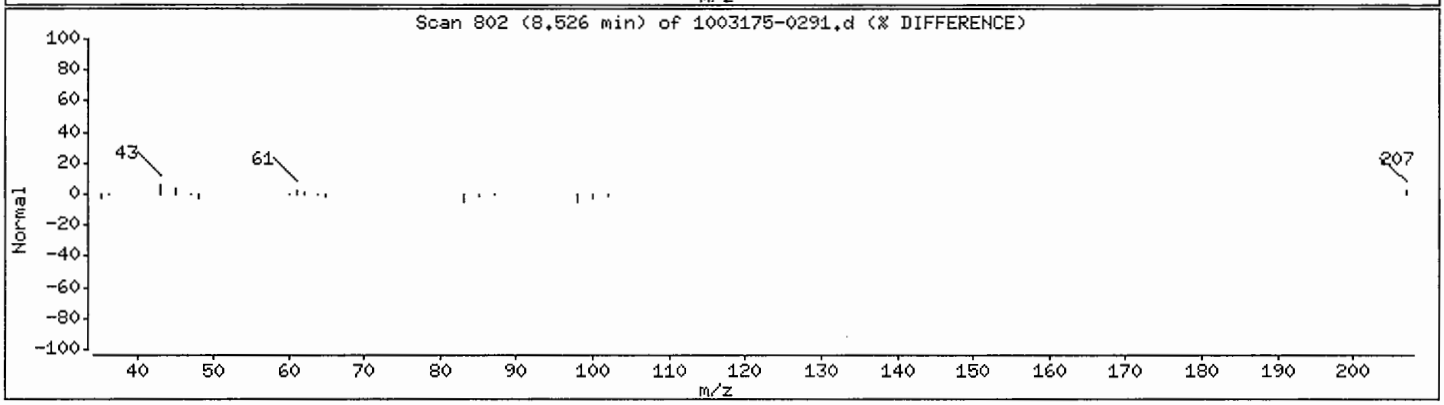
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 1.97983 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

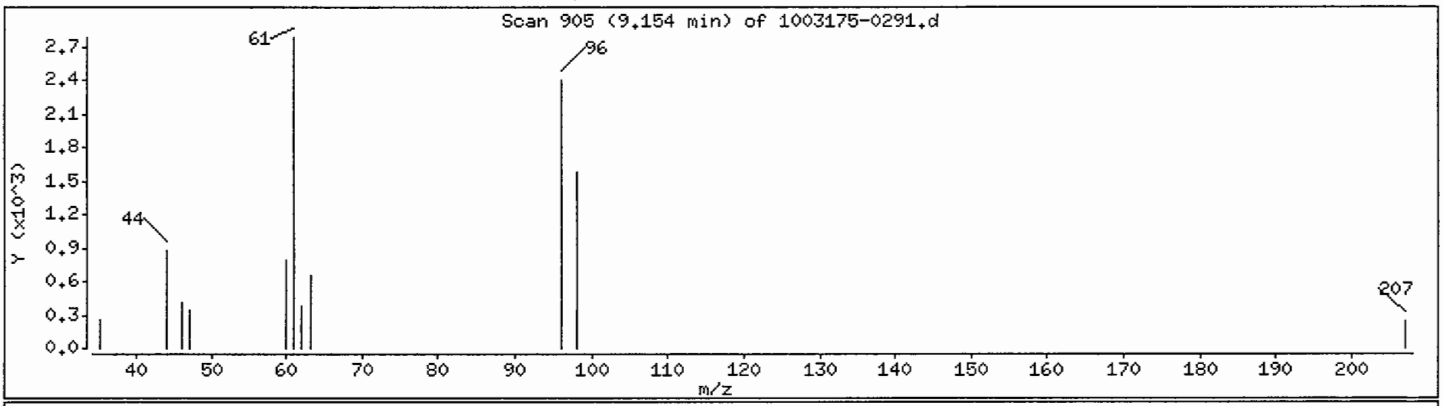
Client ID: S-2 Instrument: 5975hpms91.i

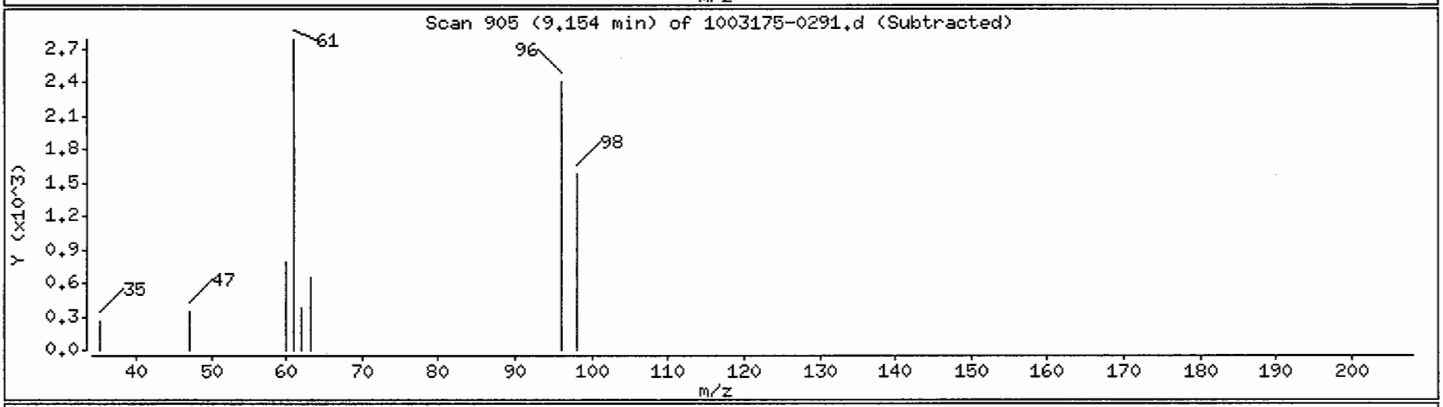
Sample Info: 1003175-02:JAO

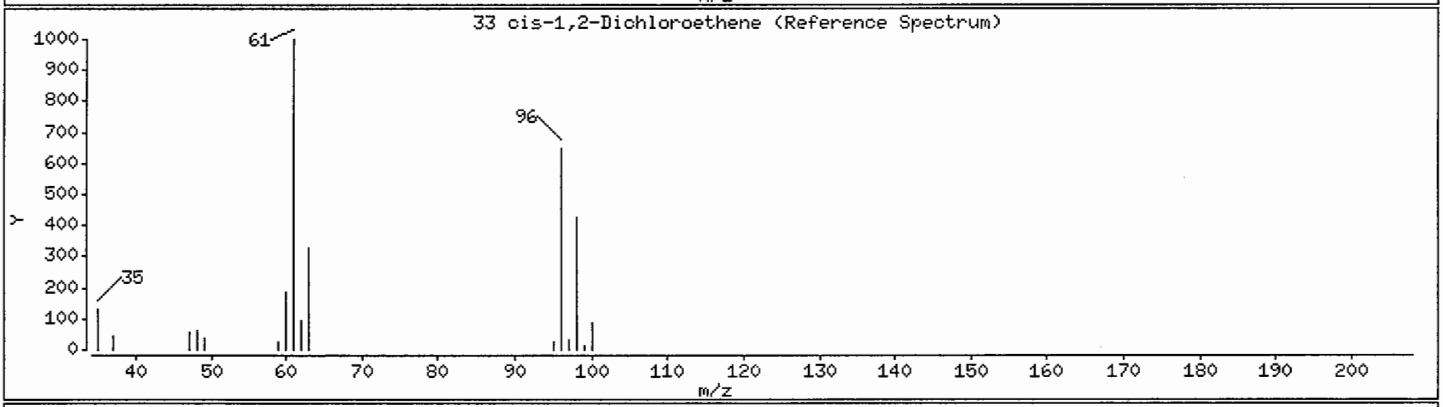
Purge Volume: 5.0 Operator: JAO

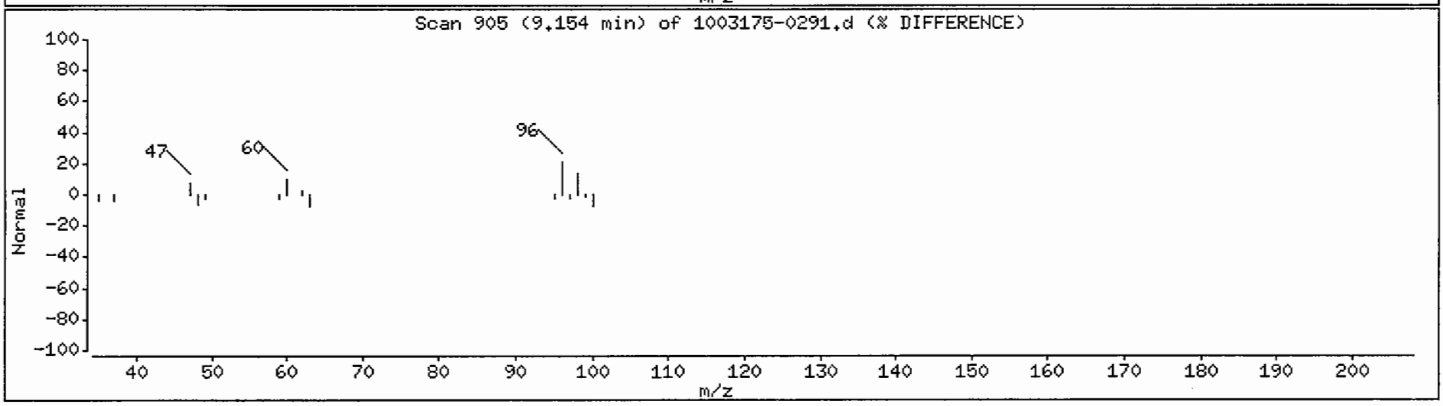
Column phase: SPB-624 Column diameter: 0.32

33 cis-1,2-Dichloroethene Concentration: 0.964355 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

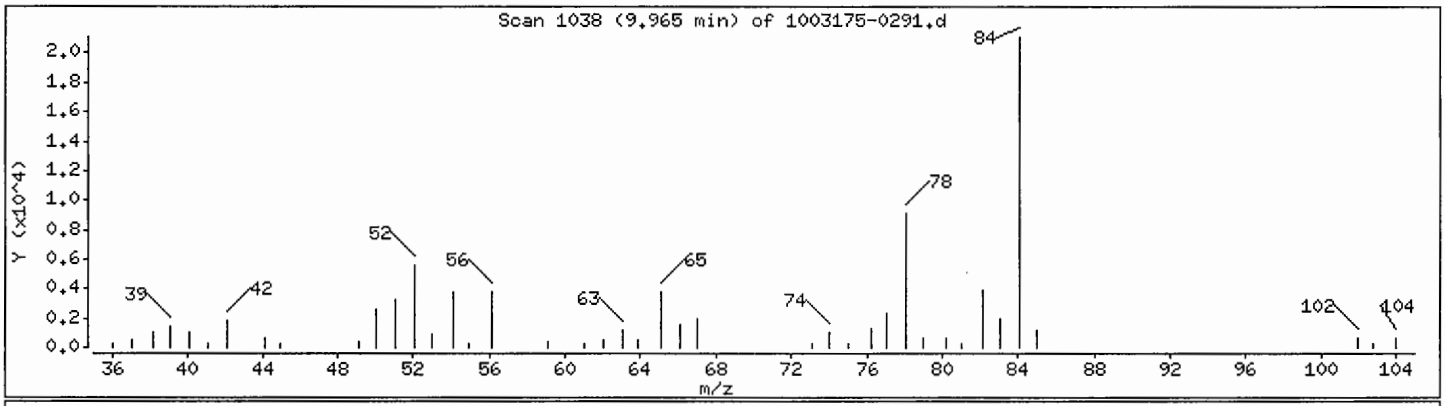
Client ID: S-2 Instrument: 5975hpms91.i

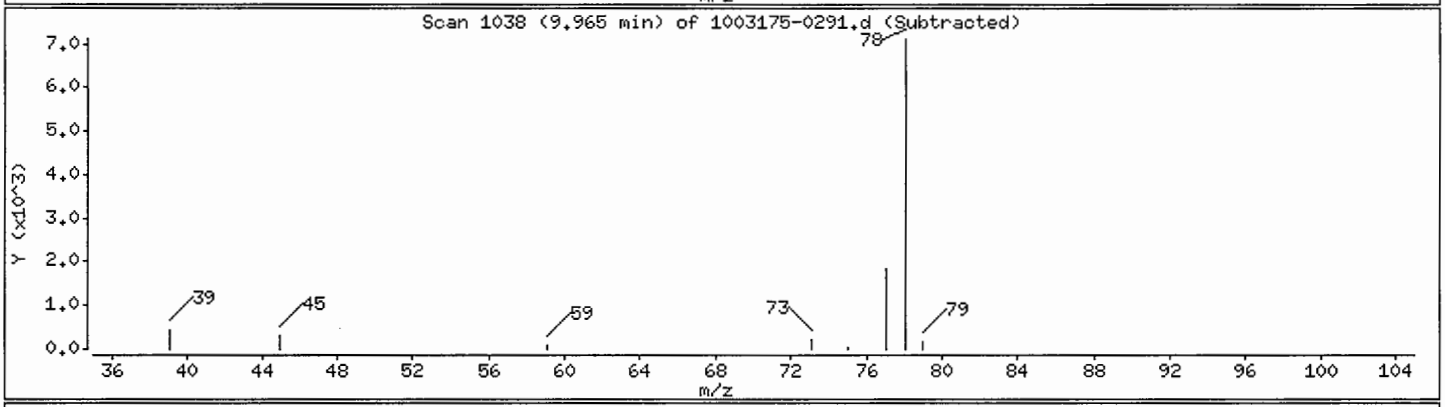
Sample Info: 1003175-02:JAO

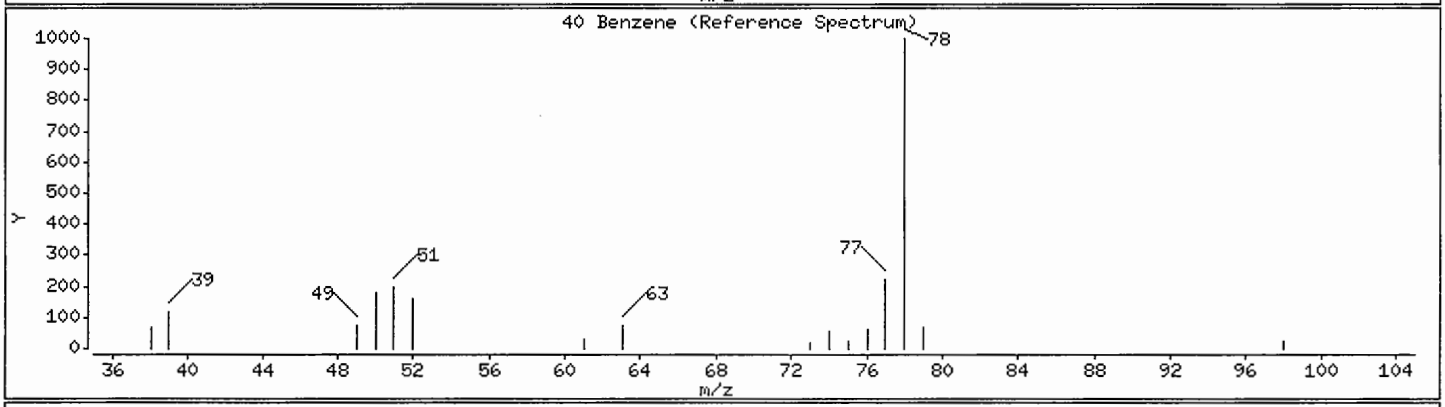
Purge Volume: 5.0 Operator: JAO

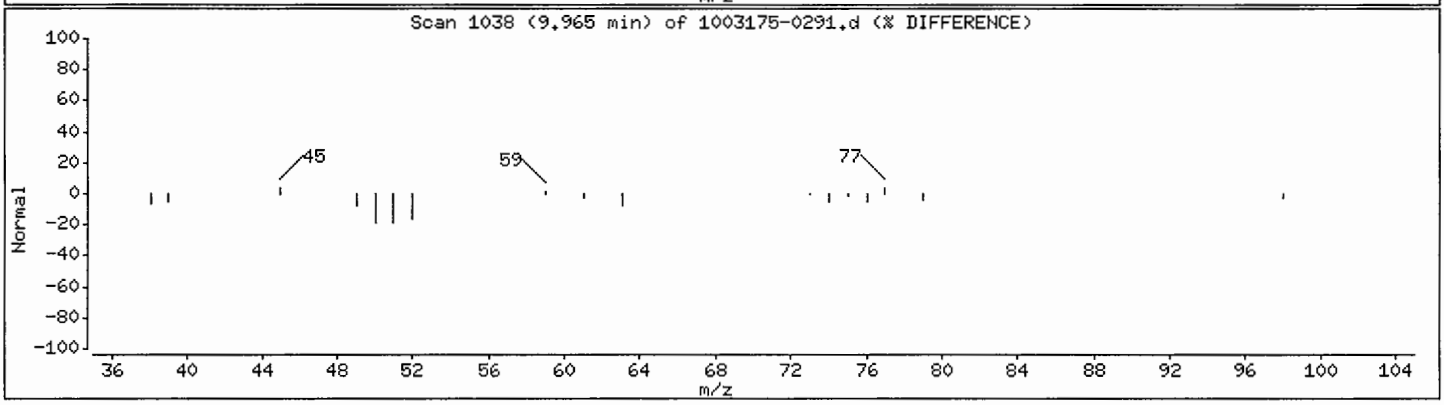
Column phase: SPB-624 Column diameter: 0.32

40 Benzene Concentration: 1.07515 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

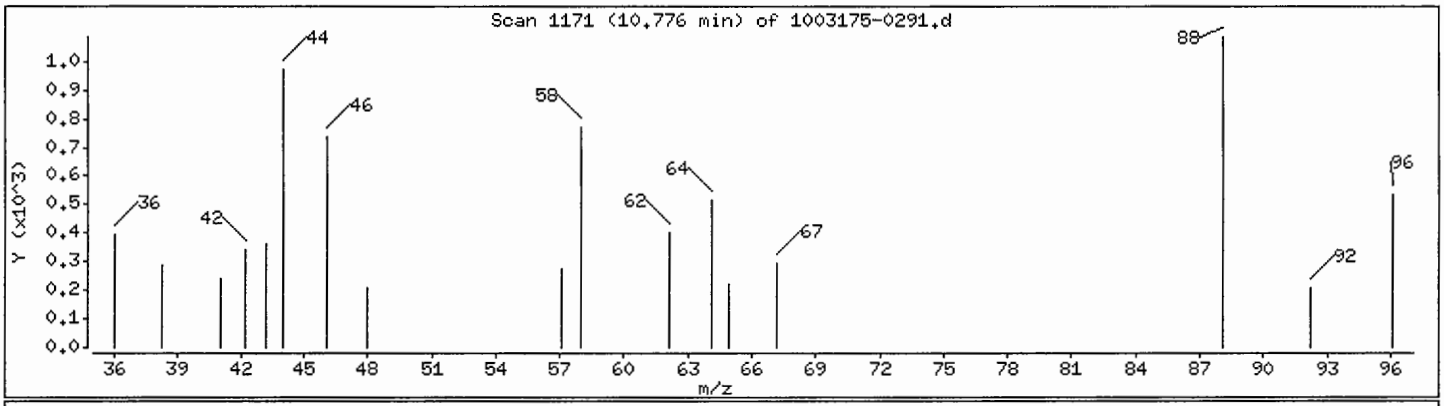
Client ID: S-2 Instrument: 5975hpms91.i

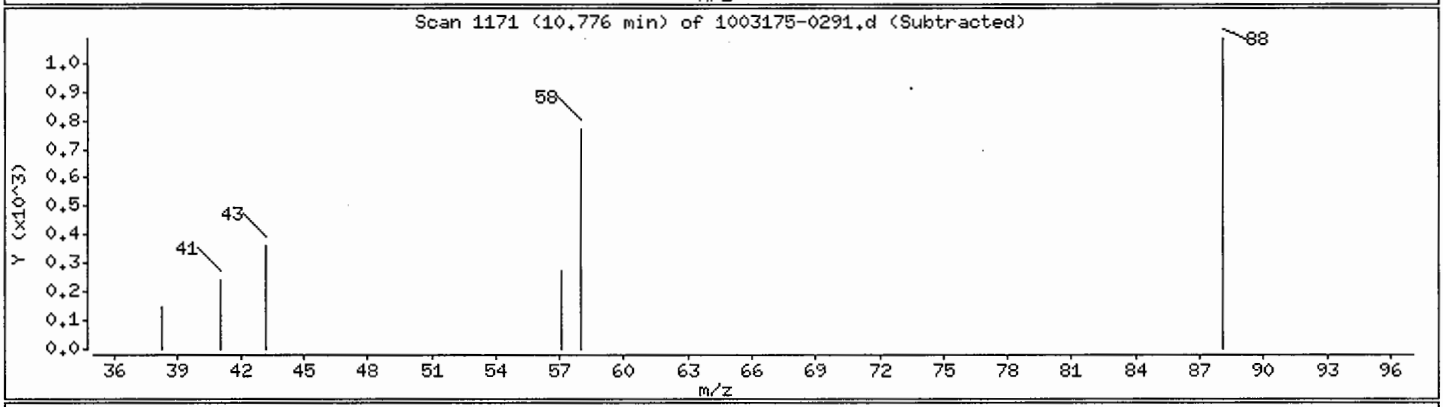
Sample Info: 1003175-02:JAO

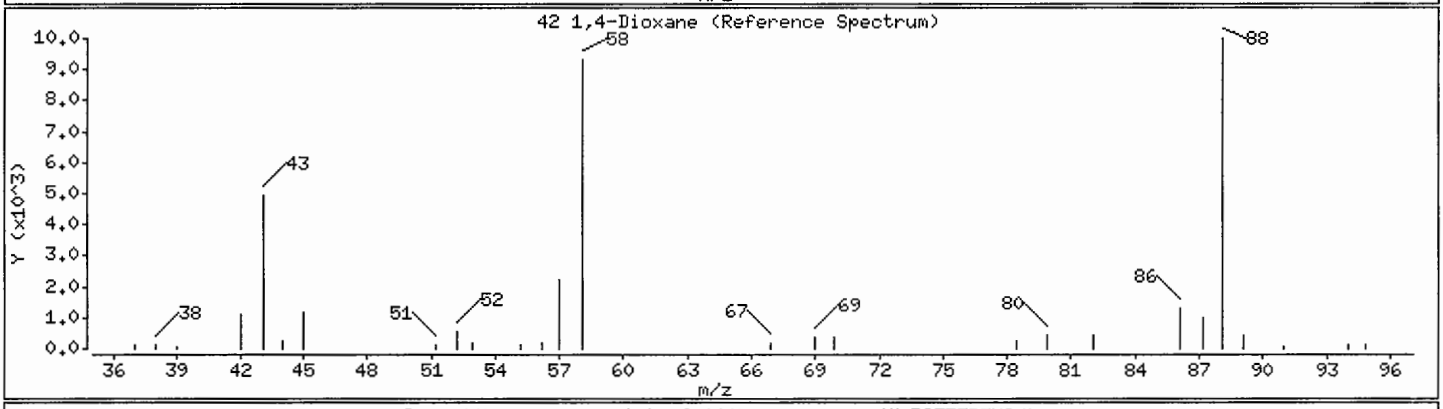
Purge Volume: 5.0 Operator: JAO

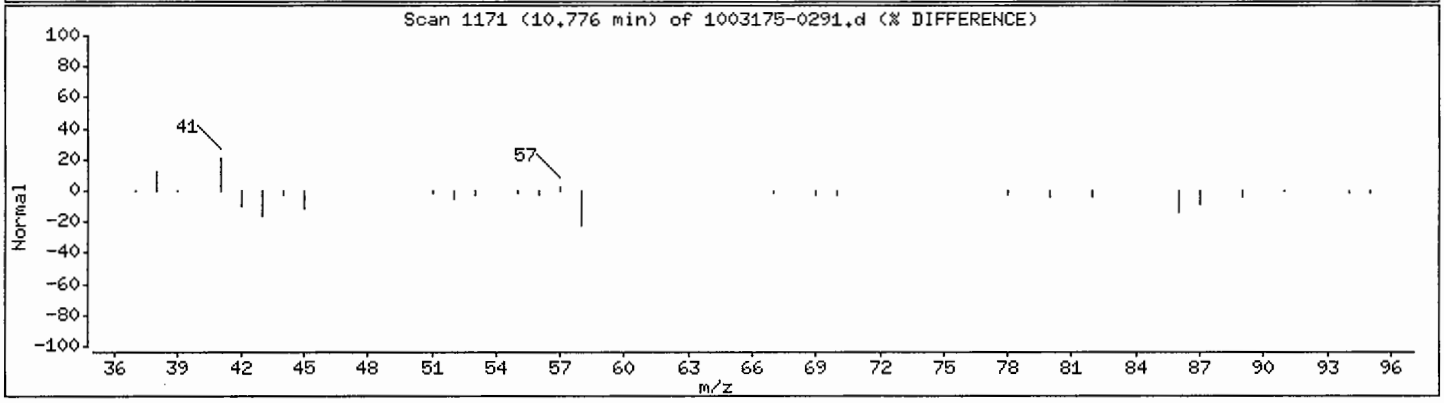
Column phase: SPB-624 Column diameter: 0.32

42 1,4-Dioxane Concentration: 36.6433 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

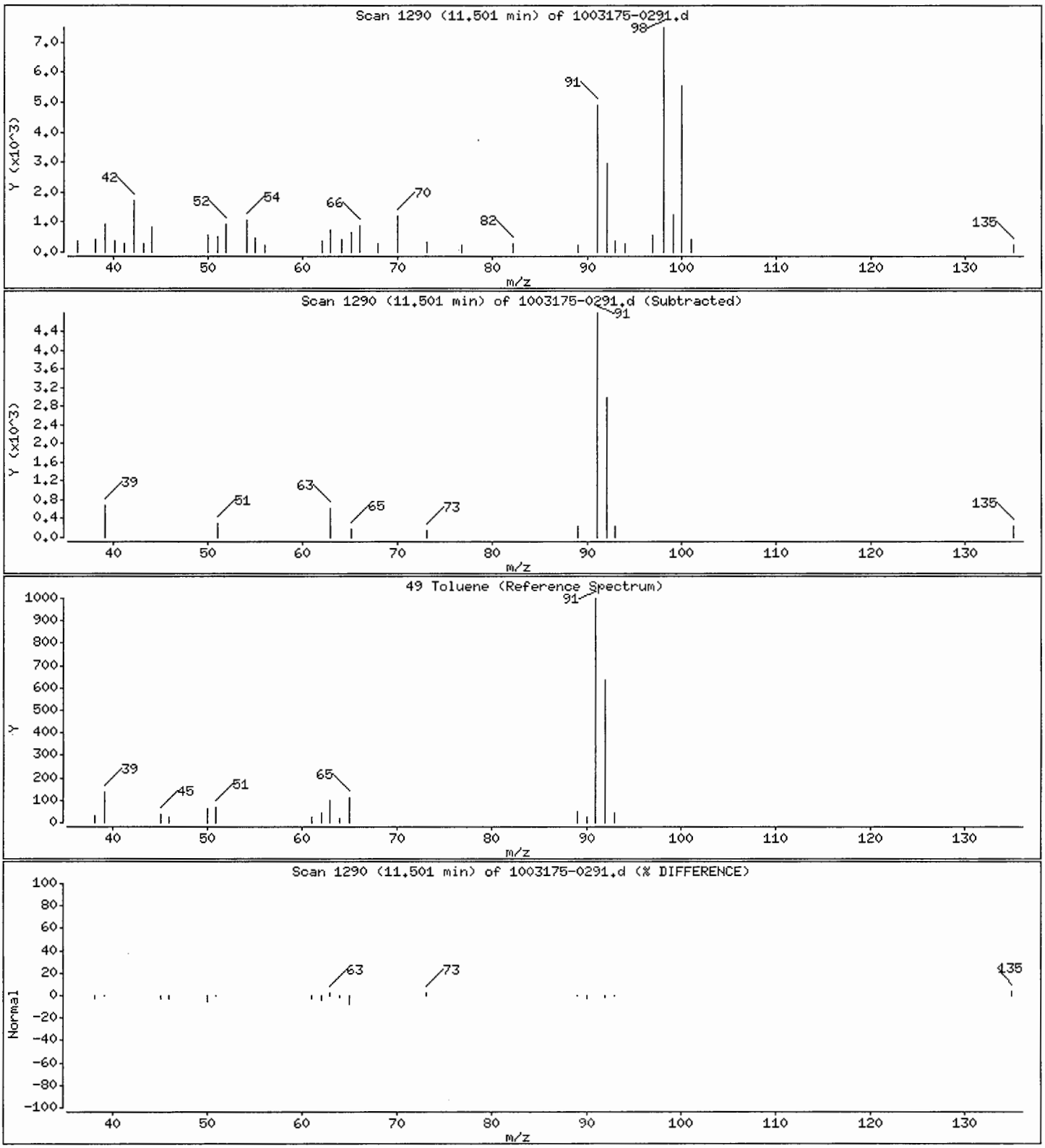
Client ID: S-2 Instrument: 5975hpms91.i

Sample Info: 1003175-02:JAO

Purge Volume: 5.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

49 Toluene Concentration: 0.412940 ug/L



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

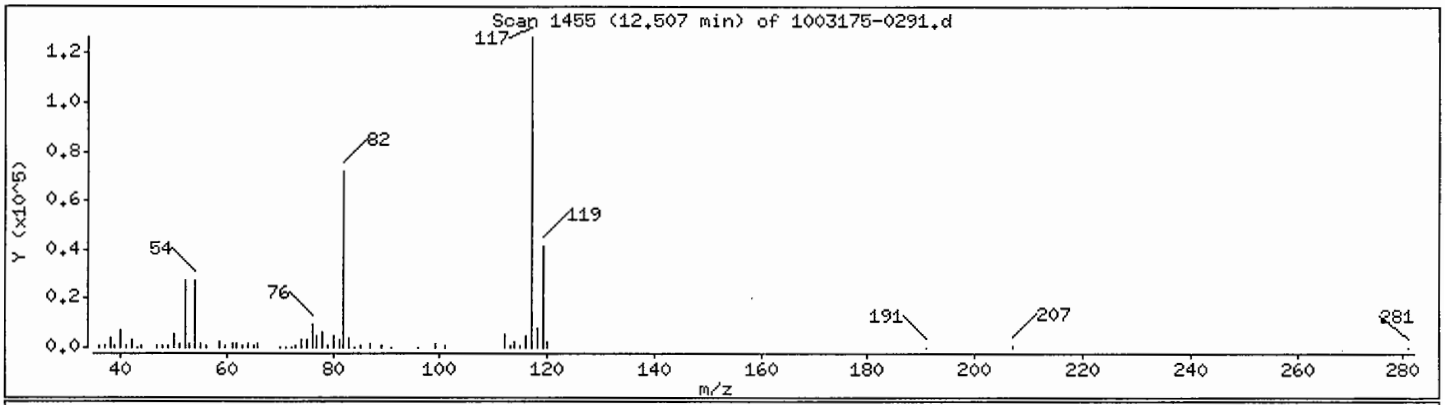
Client ID: S-2 Instrument: 5975hpms91.i

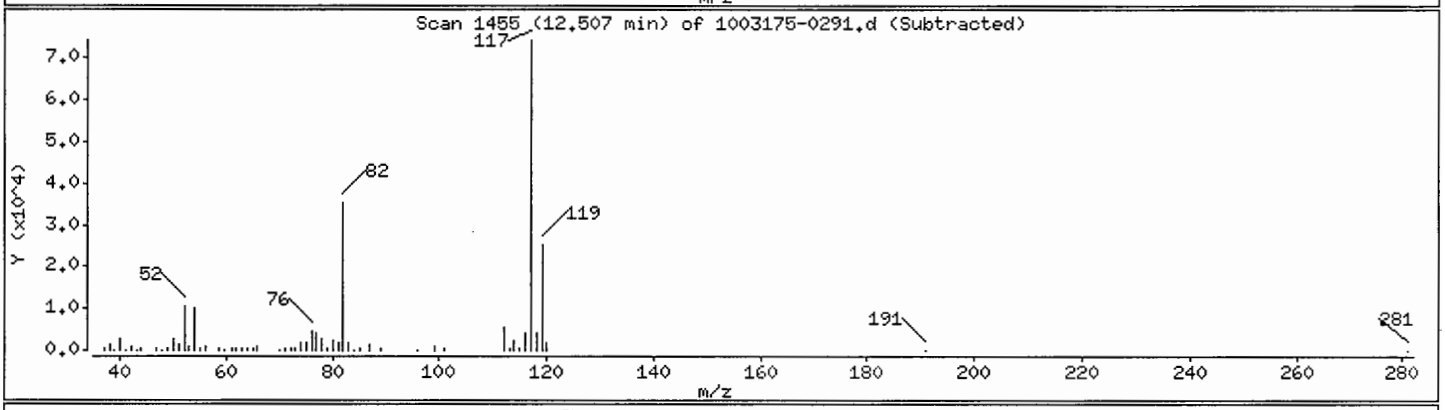
Sample Info: 1003175-02:JAO

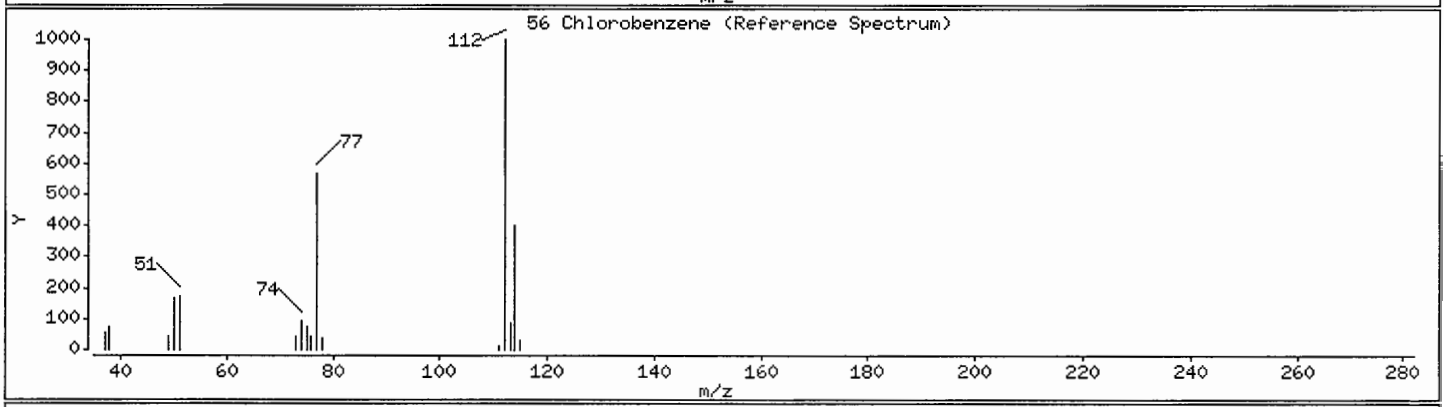
Purge Volume: 5.0 Operator: JAO

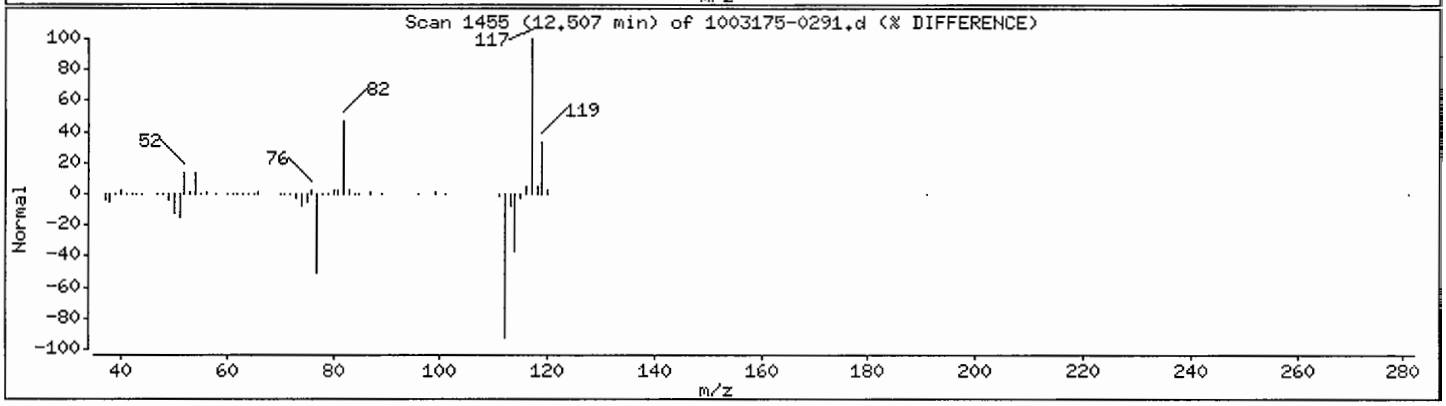
Column phase: SPB-624 Column diameter: 0.32

56 Chlorobenzene Concentration: 0.584547 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

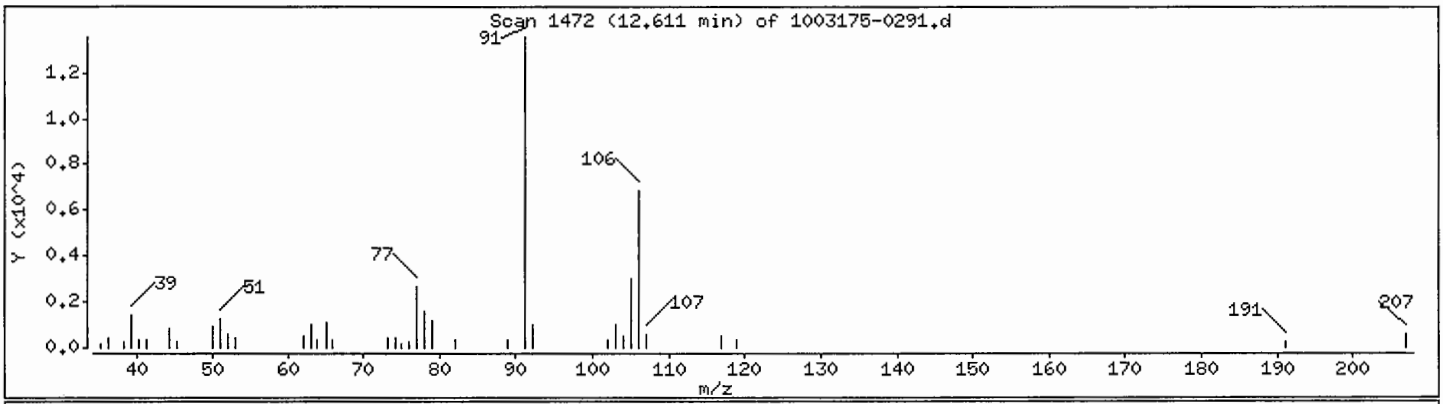
Client ID: S-2 Instrument: 5975hpms91.i

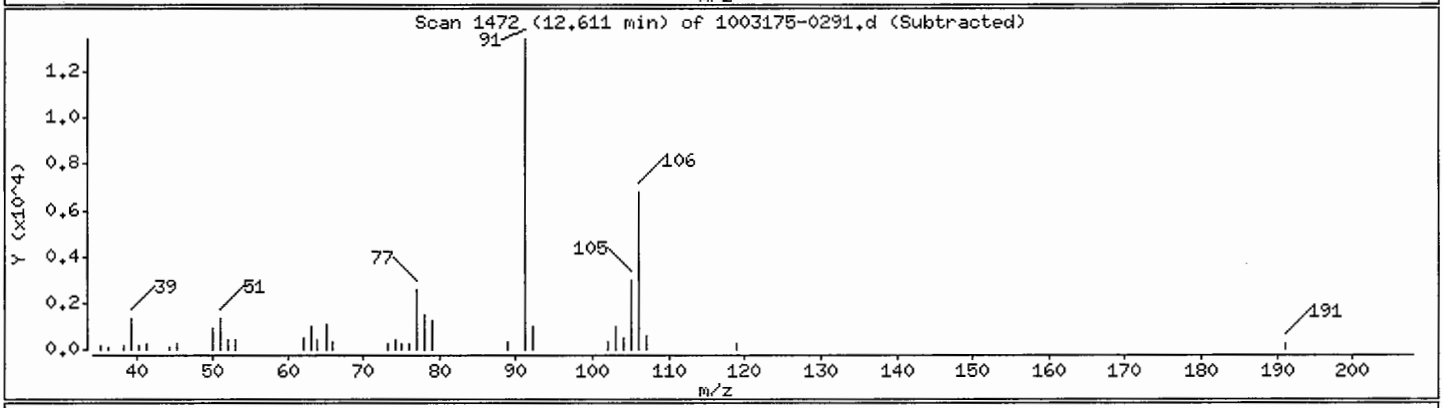
Sample Info: 1003175-02:JAO

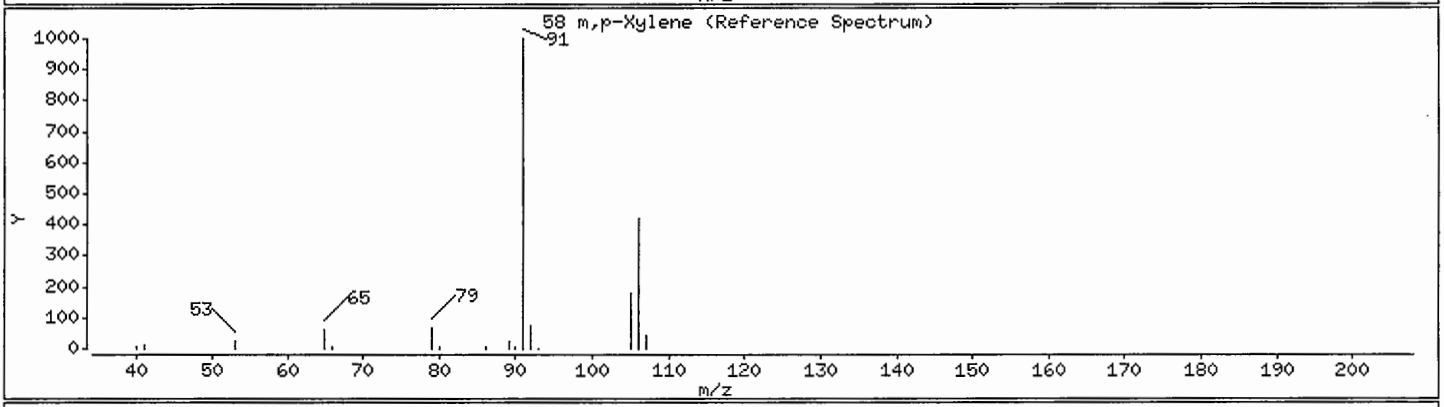
Purge Volume: 5.0 Operator: JAO

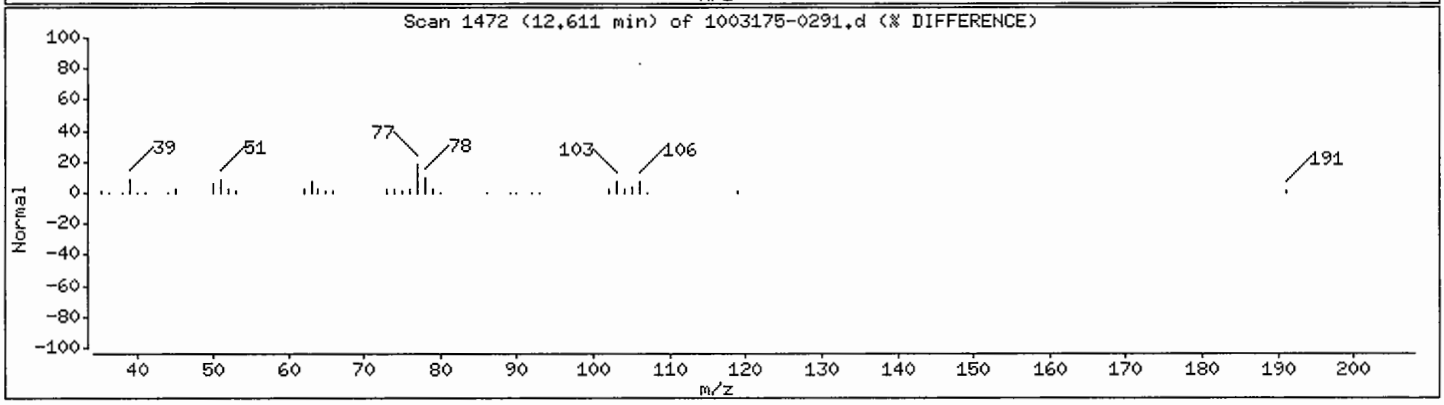
Column phase: SPB-624 Column diameter: 0.32

58 m,p-Xylene Concentration: 1.13931 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

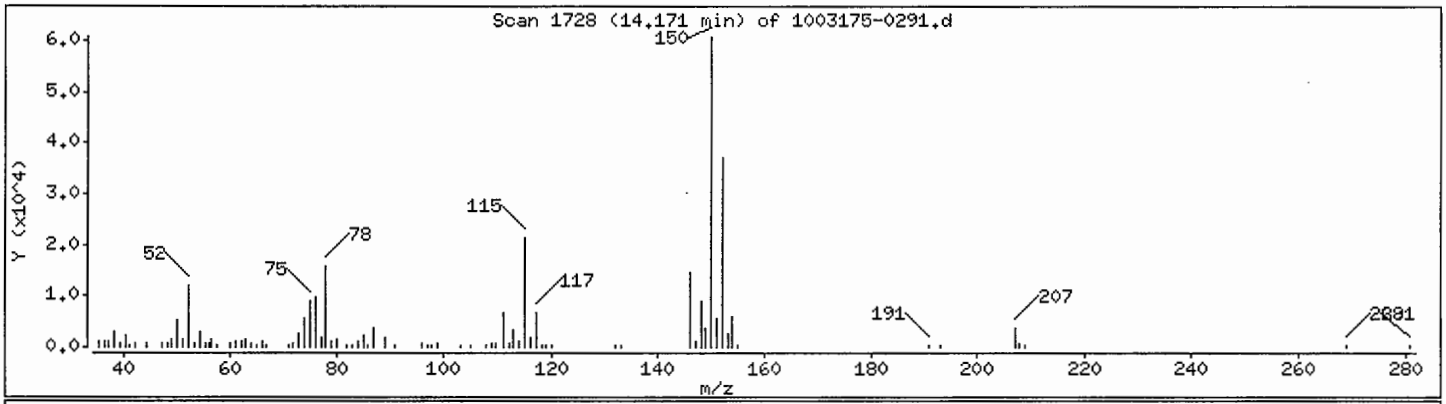
Client ID: S-2 Instrument: 5975hpms91.i

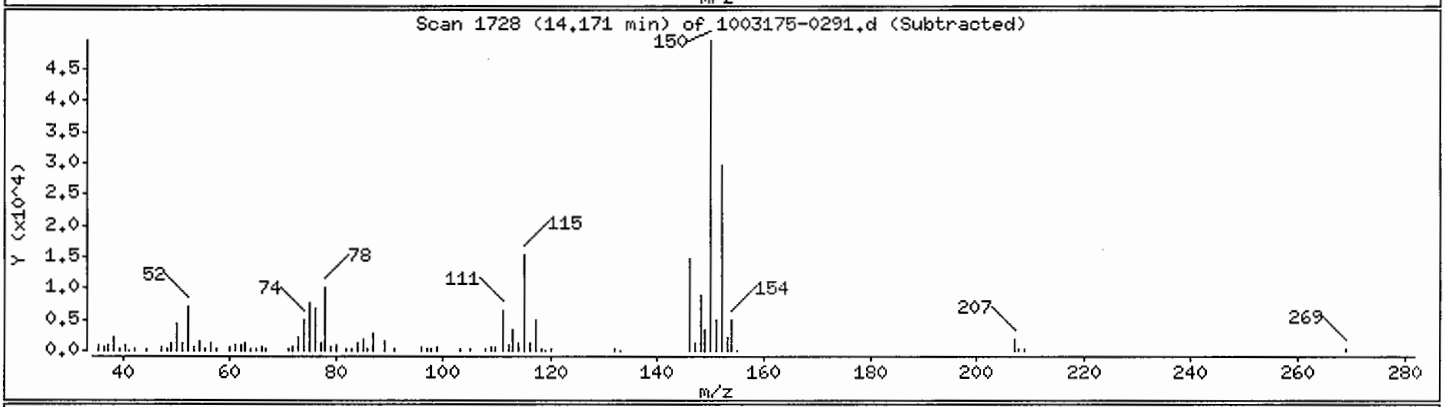
Sample Info: 1003175-02;JAO

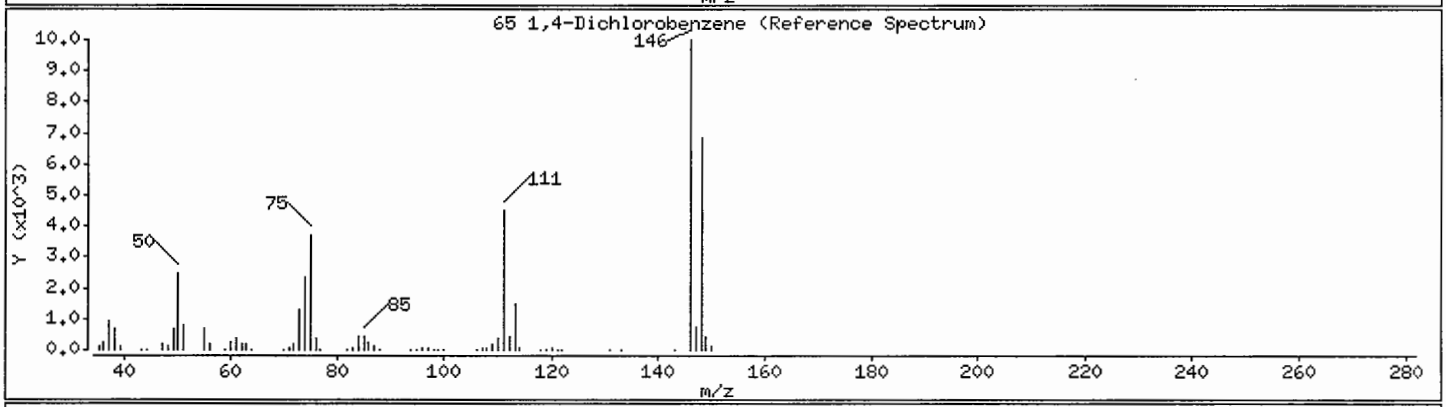
Purge Volume: 5.0 Operator: JAO

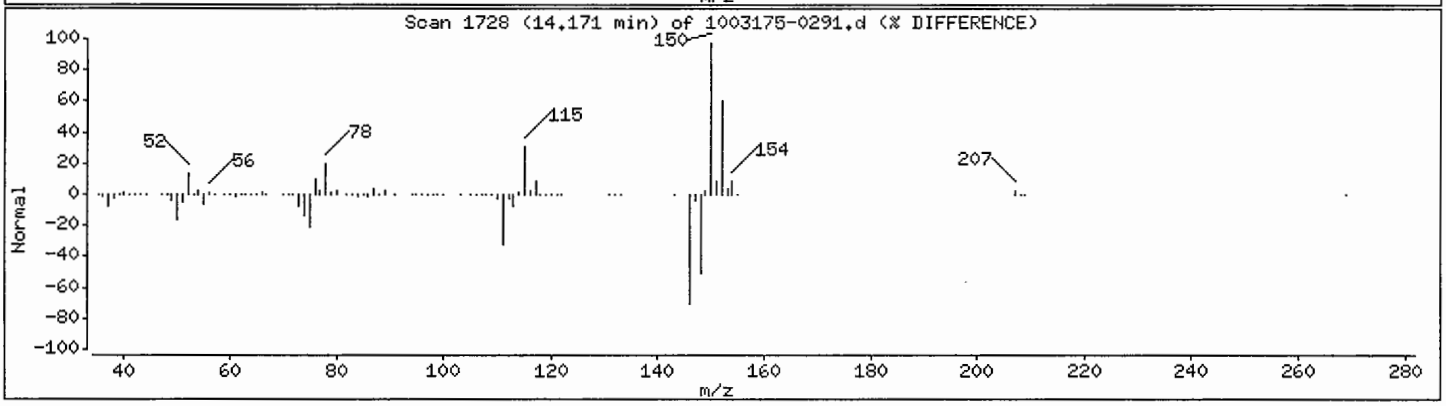
Column phase: SPB-624 Column diameter: 0.32

65 1,4-Dichlorobenzene Concentration: 2.23036 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d
Lab Smp Id: 1003175-02 Client Smp ID: S-2
Inj Date : 24-MAR-2010 13:58
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-02:JAO
Misc Info : S-2
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	10.270	1466006	250.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
6.569	176335	30.0706177	6.01412	0		0	1

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0291.d

Date : 24-MAR-2010 13:58

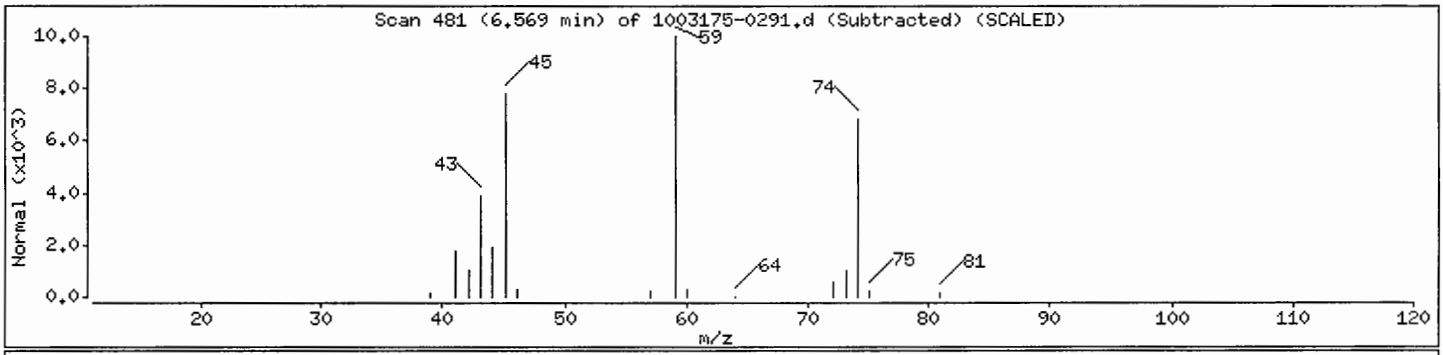
Client ID: S-2 Instrument: 5975hpms91.i

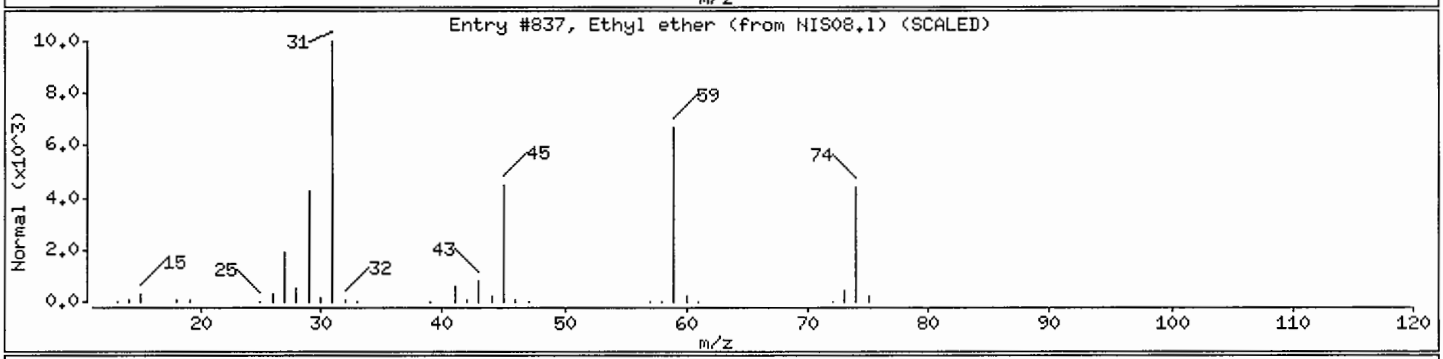
Sample Info: 1003175-02:JAO

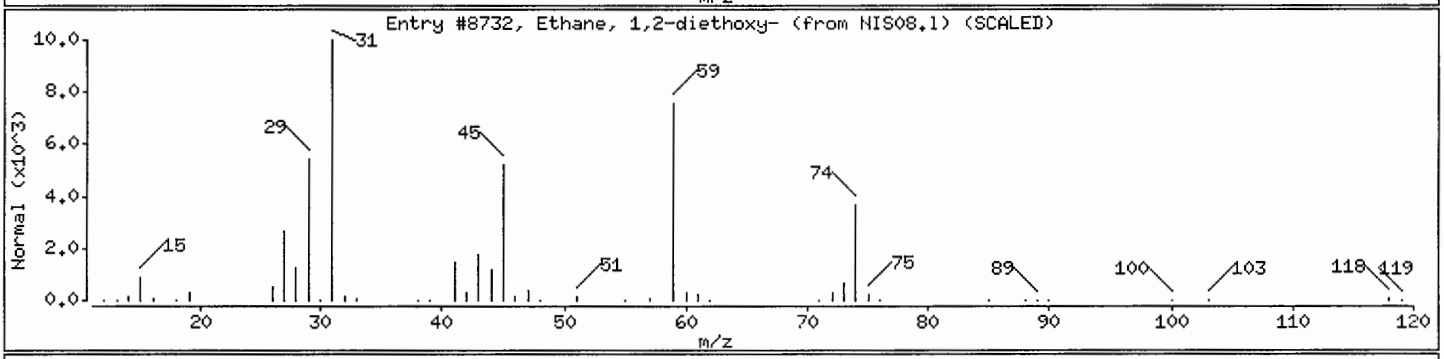
Purge Volume: 5.0 Operator: JAO

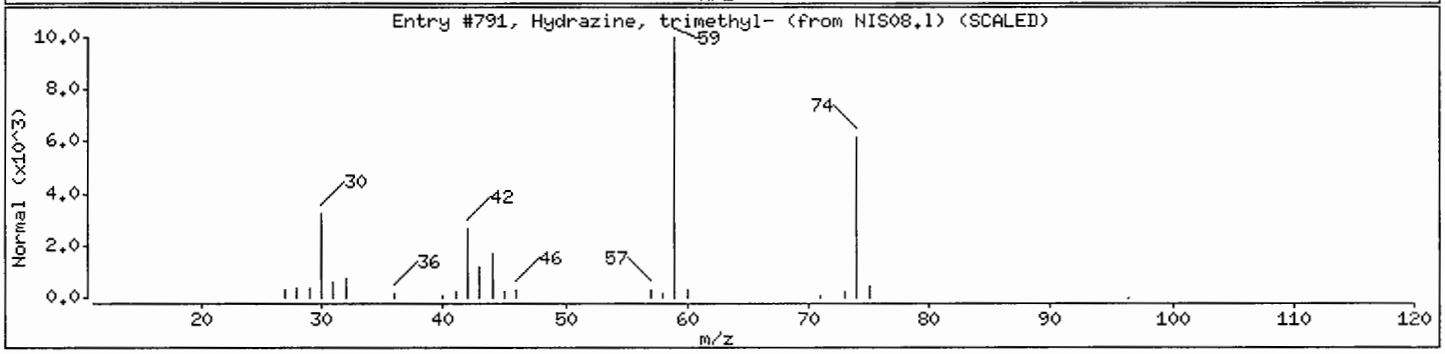
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethyl ether	60-29-7	NIS08.l	837	80	C4H10O	74
Ethane, 1,2-diethoxy-	629-14-1	NIS08.l	8732	78	C6H14O2	118
Hydrazine, trimethyl-	1741-01-1	NIS08.l	791	43	C3H10N2	74









1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-3

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-03

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0391.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-3

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-03

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0391.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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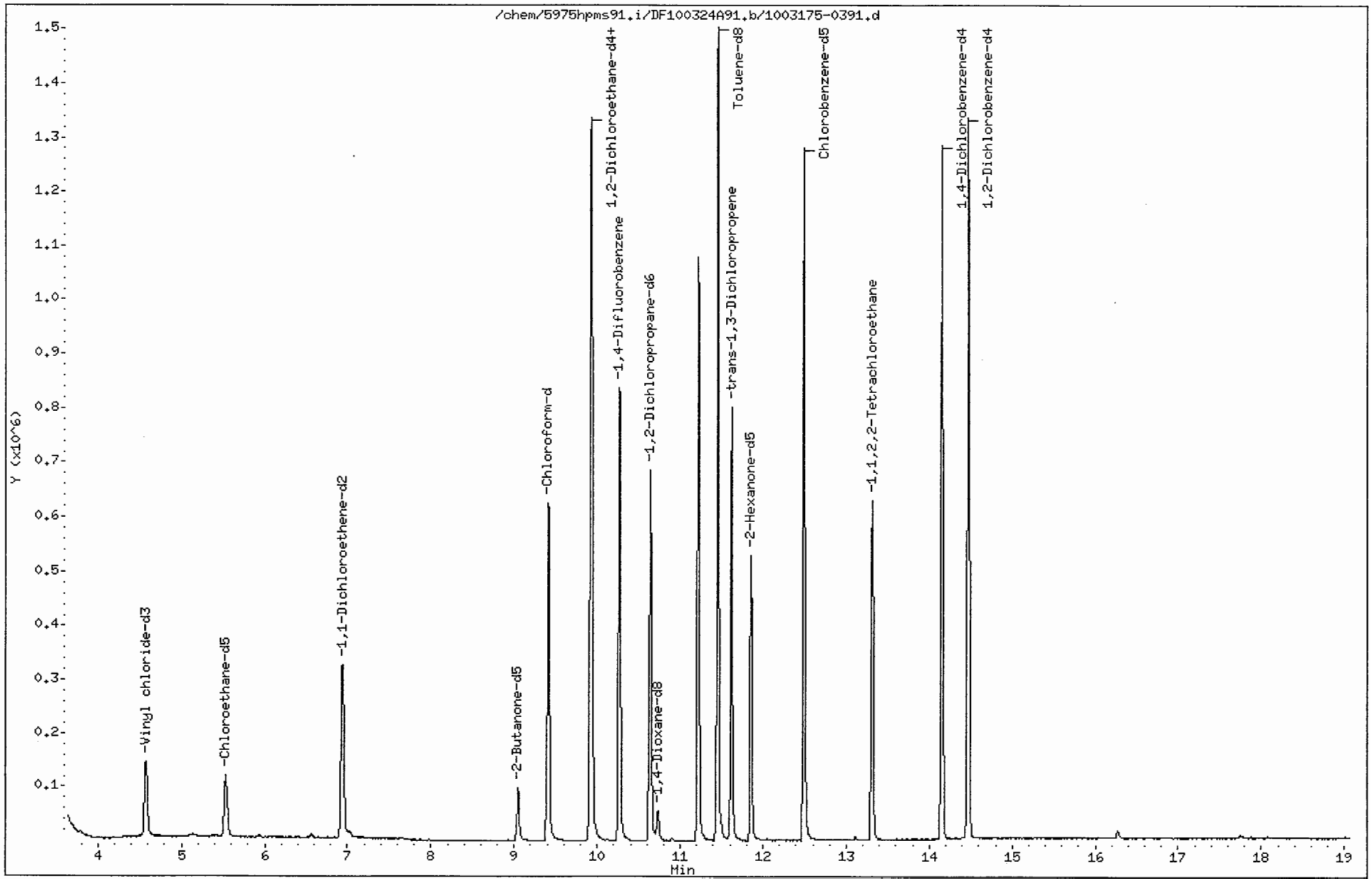
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0391.d
Date : 24-MAR-2010 14:25
Client ID: S-3
Sample Info: 1003175-03;JA0
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JA0
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0391.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0391.d
Lab Smp Id: 1003175-03 Client Smp ID: S-3
Inj Date : 24-MAR-2010 14:25
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-03:JAO
Misc Info : S-3
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.270	10.264	(1.000)	538905	250.000	
* 2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	592997	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	293884	250.000	
$ 4 Vinyl chloride-d3	65	4.576	4.570	(0.446)	215995	269.146	53.8293
$ 5 Chloroethane-d5	69	5.533	5.527	(0.539)	154965	277.977	55.5953
$ 6 1,1-Dichloroethene-d2	63	6.941	6.935	(0.676)	300654	219.609	43.9219
$ 7 2-Butanone-d5	46	9.050	9.050	(0.881)	112083	323.571	64.7142
$ 8 Chloroform-d	84	9.410	9.410	(0.916)	496989	245.868	49.1736
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	341162	254.343	50.8687
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	854014	236.586	47.3172
$ 11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	240913	240.980	48.1959
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	855926	231.777	46.3554
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	365957	219.623	43.9247
$ 14 2-Hexanone-d5	63	11.855	11.849	(0.949)	135688	391.364	78.2727
$ 15 1,4-Dioxane-d8	96	10.733	10.727	(1.045)	29535	3017.41	603.482

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0391.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	279203	212.965	42.5930
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	320199	245.411	49.0822
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0391.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0391.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0391.d
Lab Smp Id: 1003175-03 Client Smp ID: S-3
Inj Date : 24-MAR-2010 14:25
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-03:JAO
Misc Info : S-3
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-4

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-04

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0491.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	2.2	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	1.4	J
156-59-2	cis-1,2-Dichloroethene	3.4	J
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	0.52	J
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-4

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-04

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0491.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

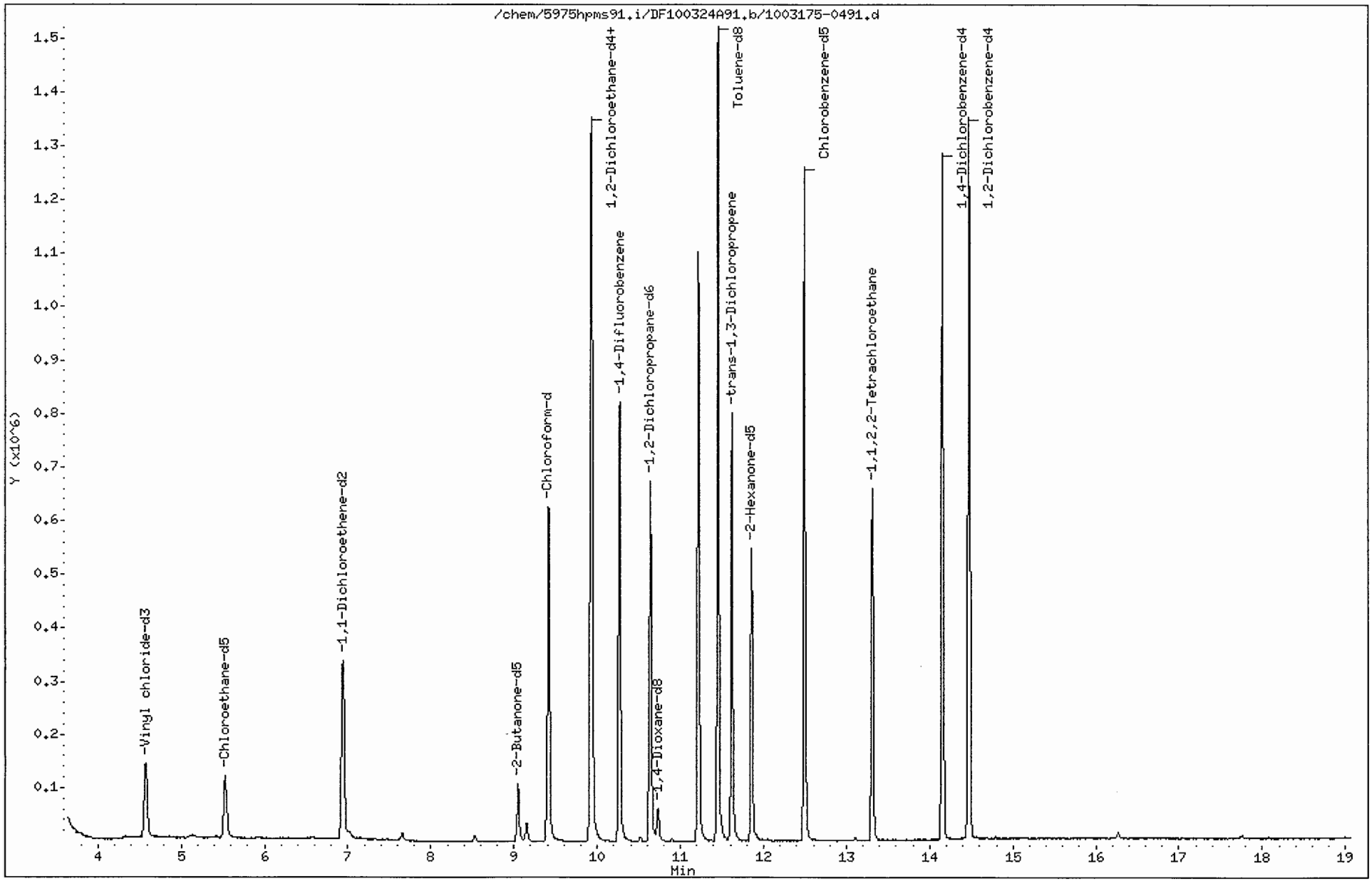
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d
Date : 24-MAR-2010 14:53
Client ID: S-4
Instrument: 5975hpms91.i
Sample Info: 1003175-04:JAO
Purge Volume: 5.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d
Lab Smp Id: 1003175-04 Client Smp ID: S-4
Inj Date : 24-MAR-2010 14:53
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-04:JAO
Misc Info : S-4
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 1,4-Difluorobenzene	114	10.270	10.264	(1.000)	539543	250.000	
*	2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	582784	250.000	
*	3 1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	294079	250.000	
$	4 Vinyl chloride-d3	65	4.576	4.570	(0.446)	213458	265.671	53.1341
$	5 Chloroethane-d5	69	5.533	5.527	(0.539)	156142	279.757	55.9514
$	6 1,1-Dichloroethene-d2	63	6.935	6.935	(0.675)	304380	222.068	44.4136
$	7 2-Butanone-d5	46	9.050	9.050	(0.881)	117732	339.477	67.8955
$	8 Chloroform-d	84	9.416	9.410	(0.917)	505033	249.552	49.9104
$	9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	345814	257.507	51.5014
$	10 Benzene-d6	84	9.928	9.928	(0.795)	866343	244.207	48.8415
$	11 1,2-Dichloropropane-d6	67	10.642	10.635	(0.852)	240799	245.087	49.0174
$	12 Toluene-d8	98	11.452	11.452	(0.917)	868330	239.256	47.8513
$	13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	366328	223.699	44.7397
$	14 2-Hexanone-d5	63	11.855	11.849	(0.949)	139446	409.251	81.8503
$	15 1,4-Dioxane-d8	96	10.733	10.727	(1.045)	31944	3259.66	651.933

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	281459	218.448	43.6896
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	329486	252.361	50.4723
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.654	7.654	(0.745)	6125	11.1545	2.23090(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.532	8.526	(0.831)	10721	7.17553	1.43511(a)
33 cis-1,2-Dichloroethene	96	9.154	9.148	(0.891)	14065	16.8065	3.36131(a)
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	10.514	10.520	(0.842)	2478	2.61115	0.522230(a)
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d
Report Date: 25-Mar-2010 19:58

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d

Date : 24-MAR-2010 14:53

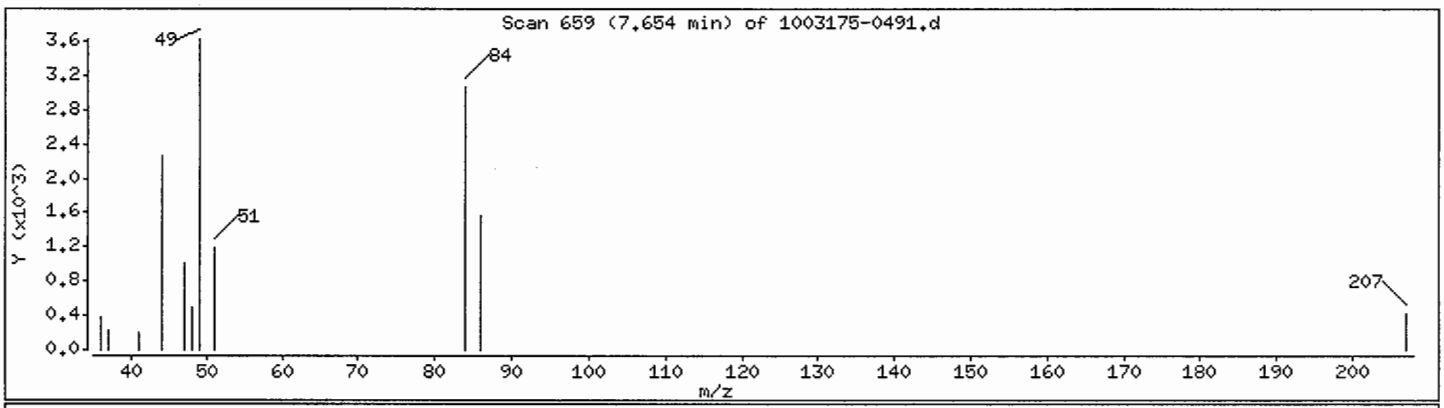
Client ID: S-4 Instrument: 5975hpms91.i

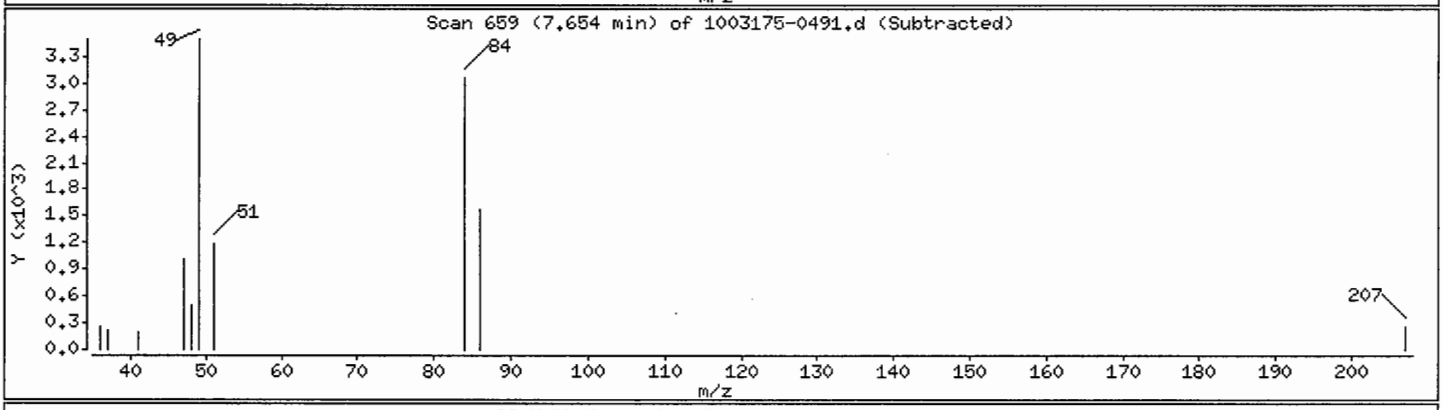
Sample Info: 1003175-04:JAO

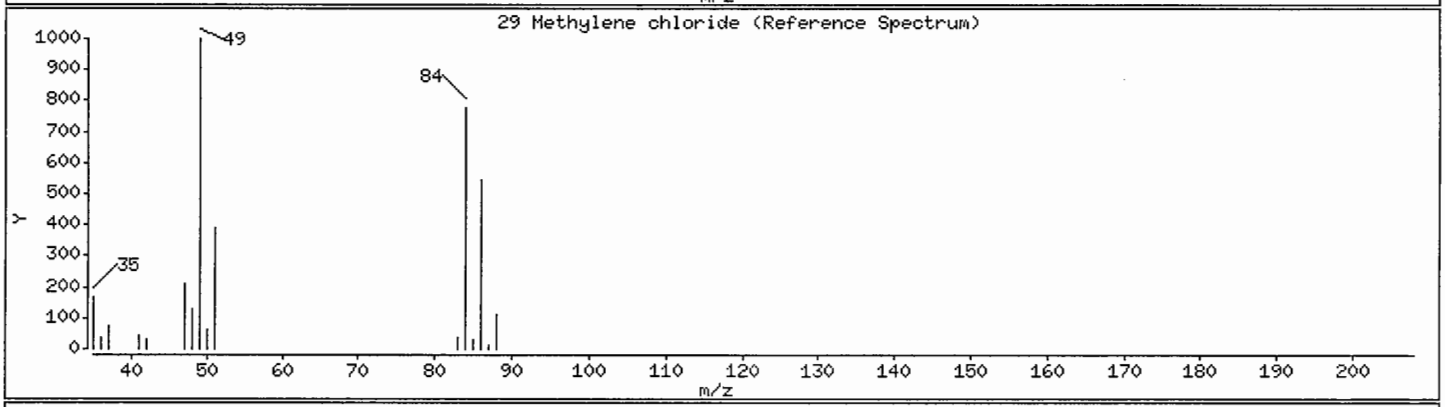
Purge Volume: 5.0 Operator: JAO

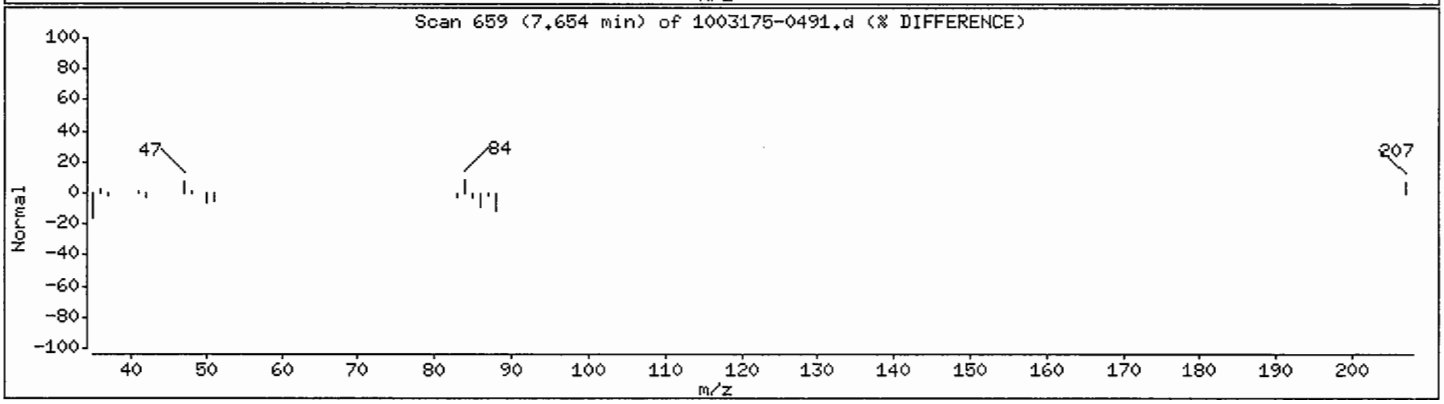
Column phase: SPB-624 Column diameter: 0.32

29 Methylene chloride Concentration: 2.23090 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d

Date : 24-MAR-2010 14:53

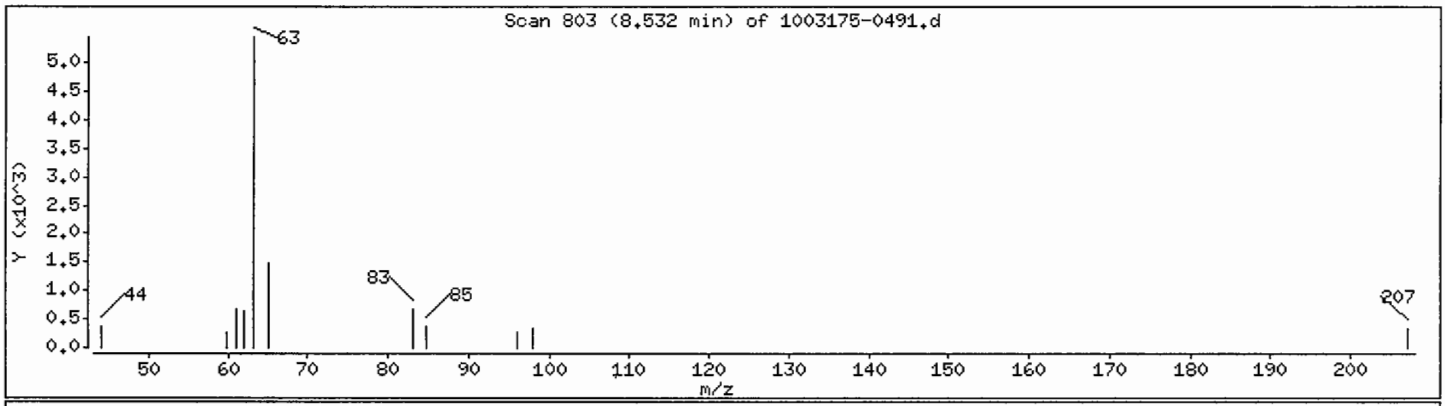
Client ID: S-4 Instrument: 5975hpms91.i

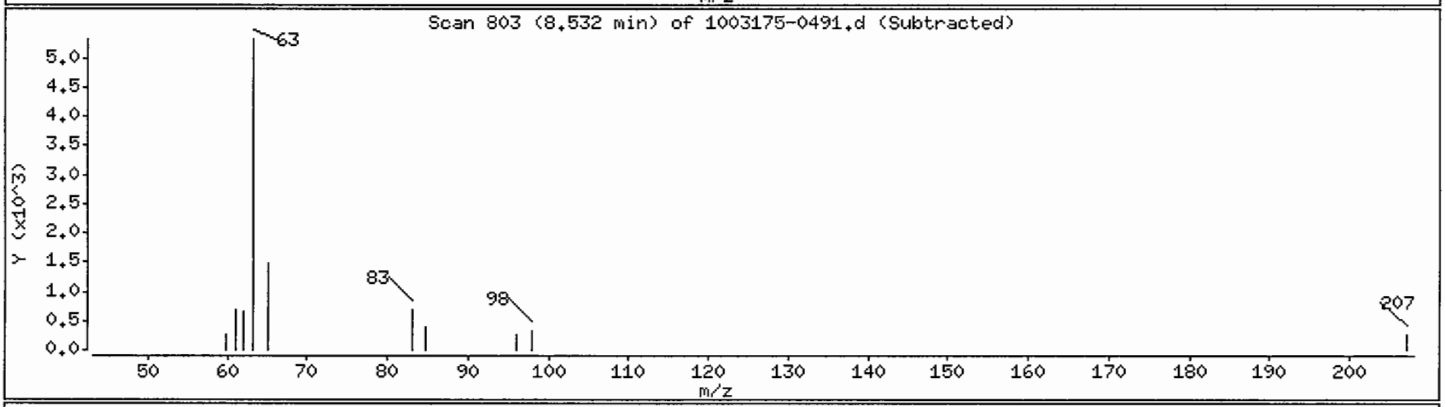
Sample Info: 1003175-04:JAO

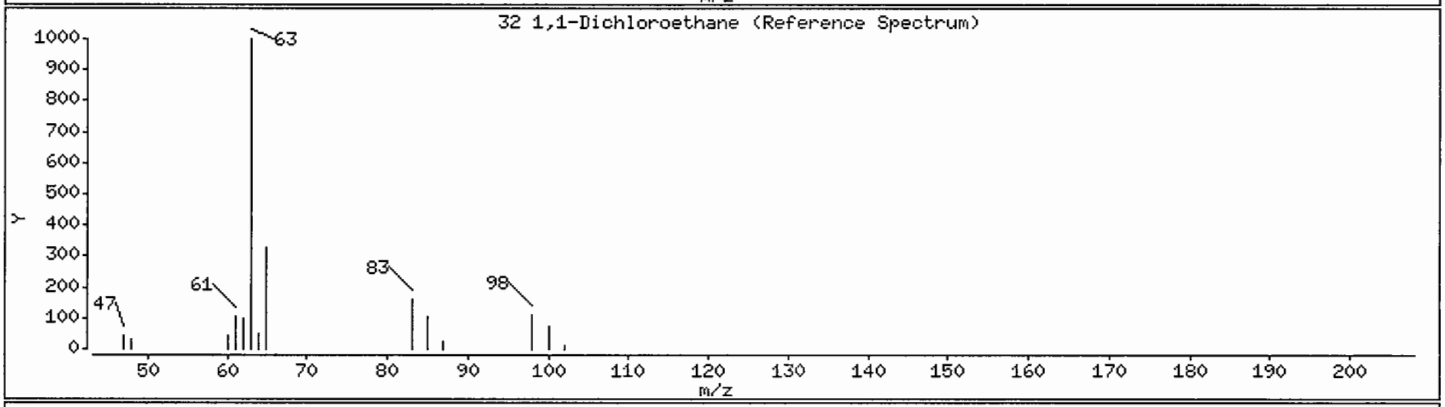
Purge Volume: 5.0 Operator: JAO

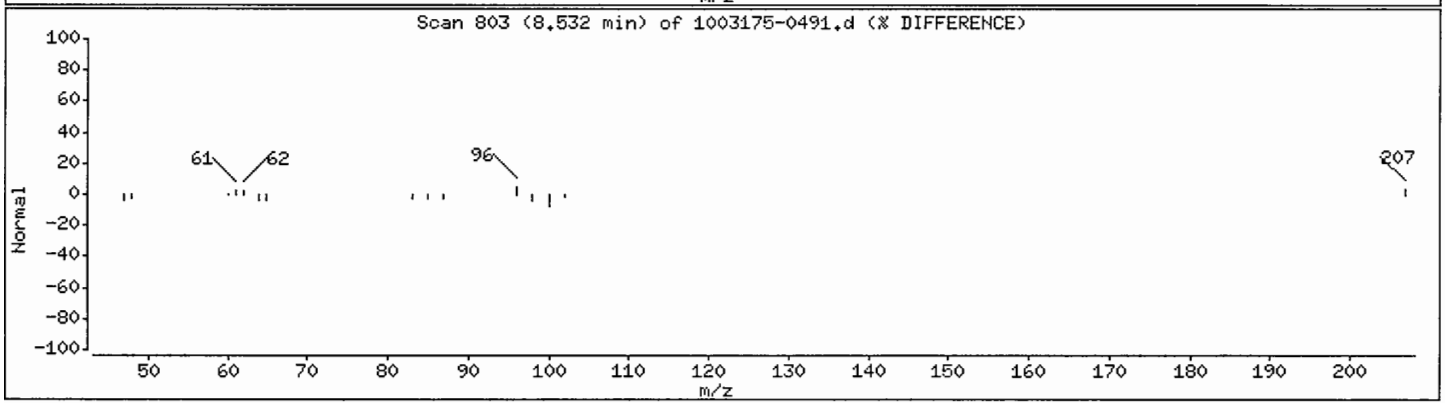
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 1.43511 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d

Date : 24-MAR-2010 14:53

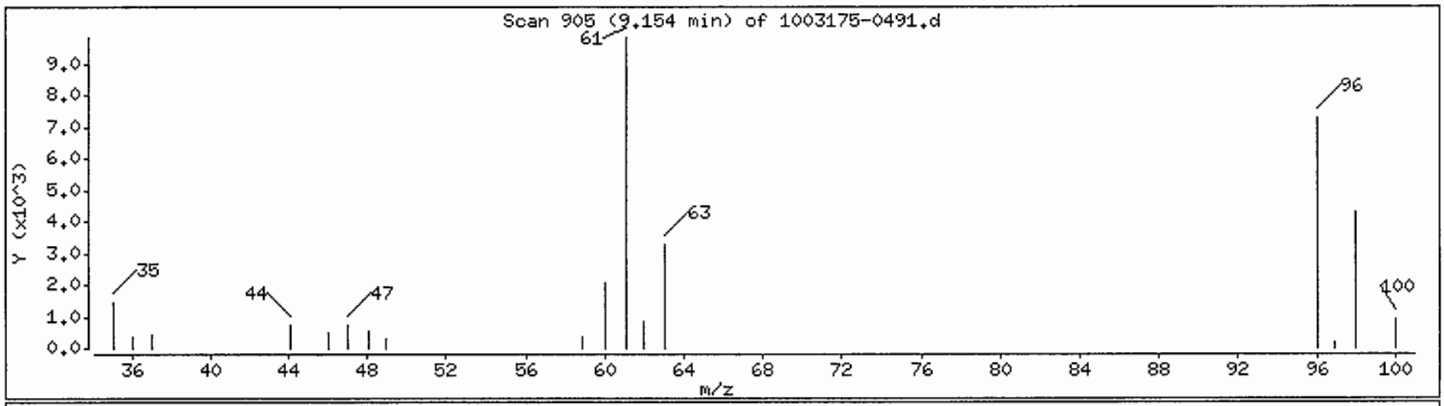
Client ID: S-4 Instrument: 5975hpms91.i

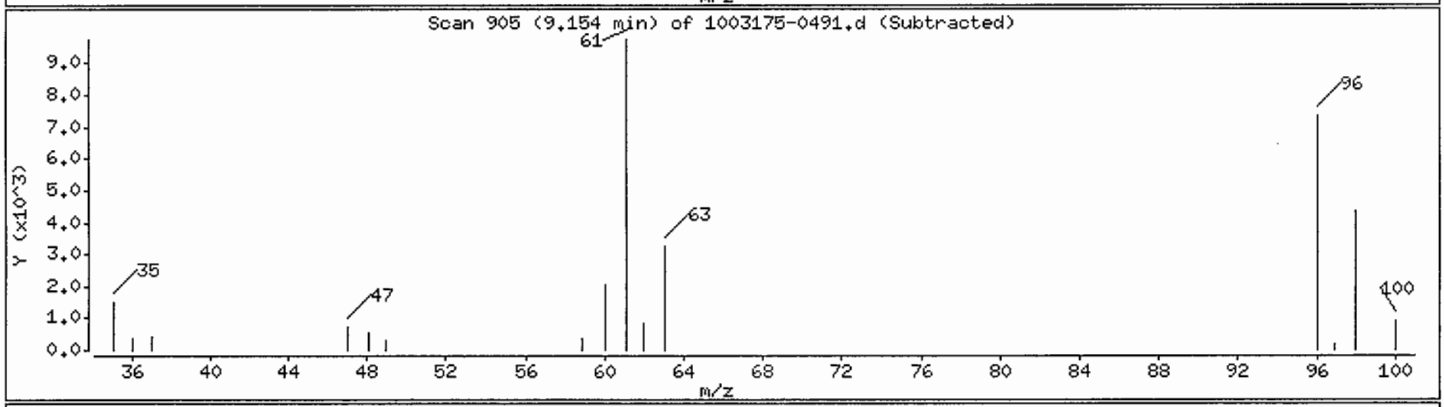
Sample Info: 1003175-04:JAO

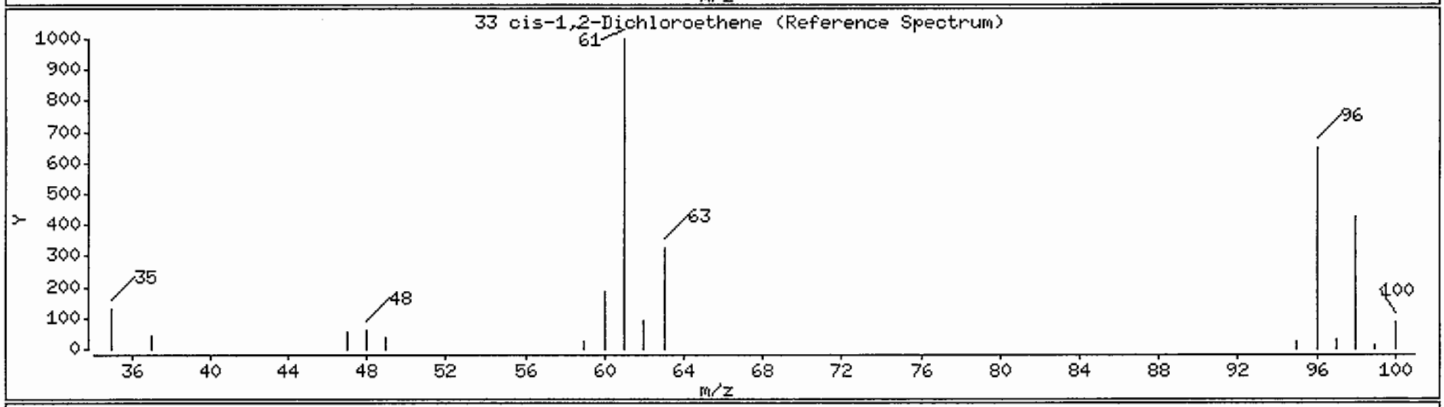
Purge Volume: 5.0 Operator: JAO

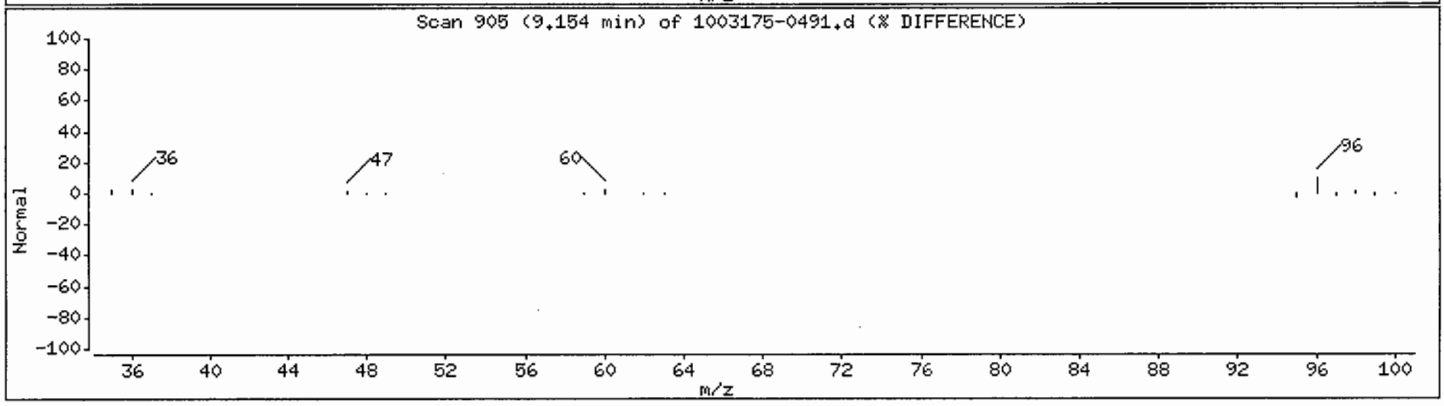
Column phase: SPB-624 Column diameter: 0.32

33 cis-1,2-Dichloroethene Concentration: 3.36131 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d

Date : 24-MAR-2010 14:53

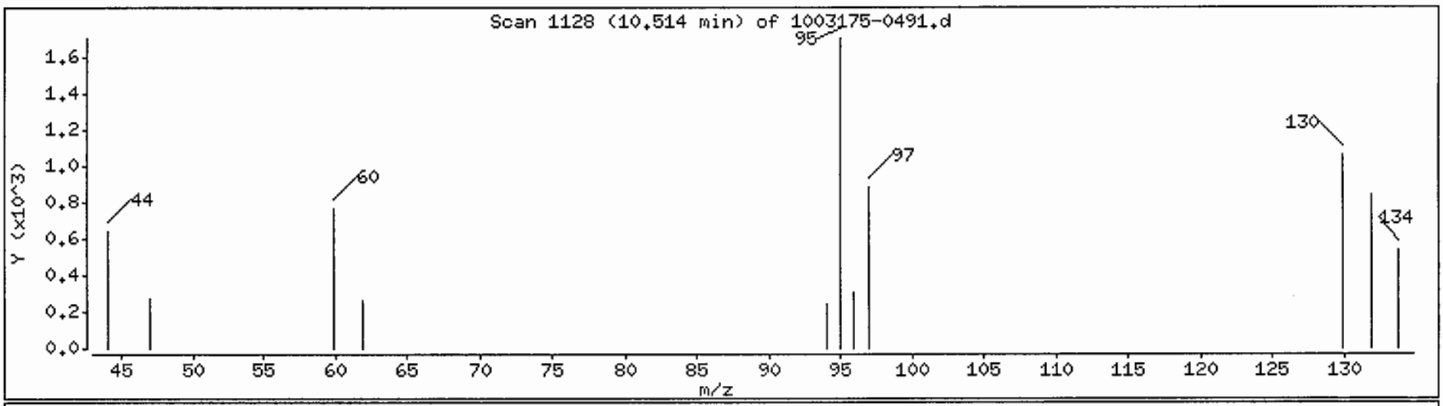
Client ID: S-4 Instrument: 5975hpms91.i

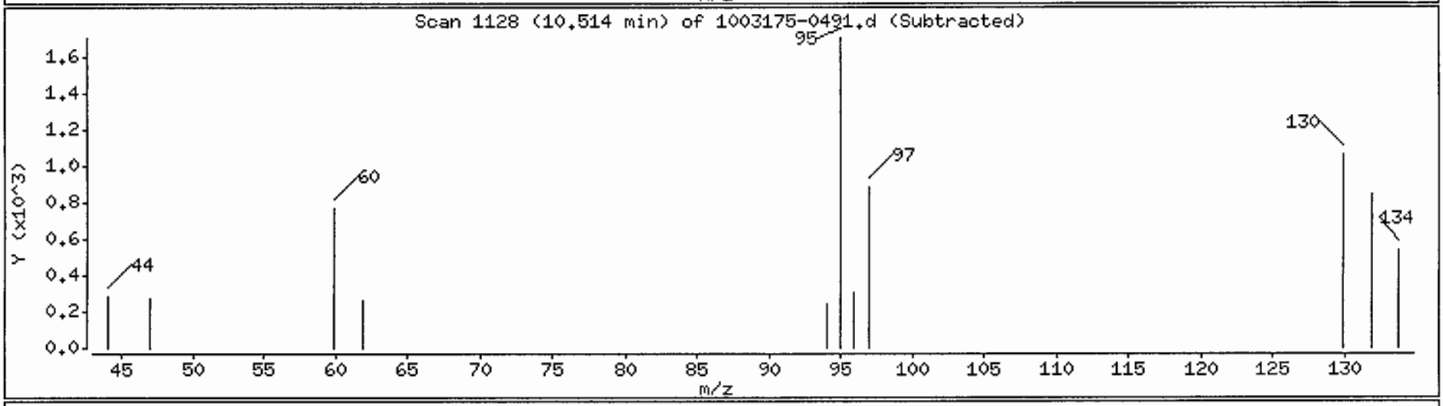
Sample Info: 1003175-04:JAO

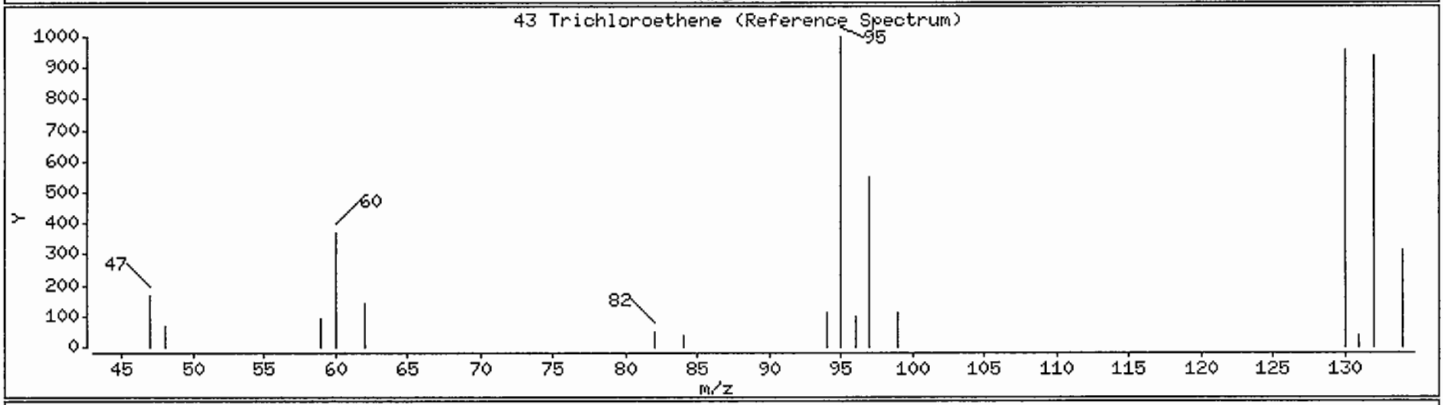
Purge Volume: 5.0 Operator: JAO

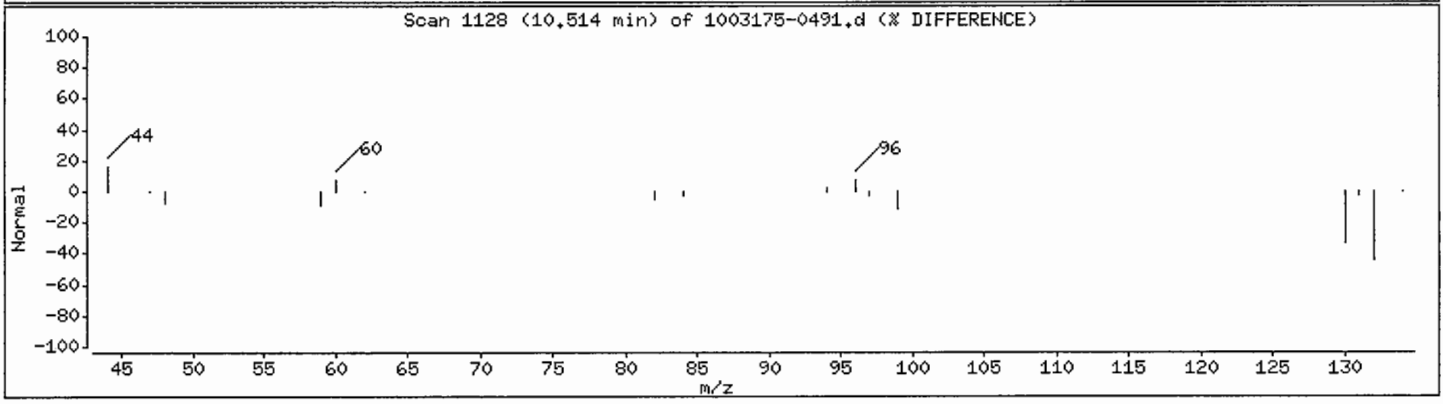
Column phase: SPB-624 Column diameter: 0.32

43 Trichloroethene Concentration: 0.522230 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0491.d
Lab Smp Id: 1003175-04 Client Smp ID: S-4
Inj Date : 24-MAR-2010 14:53
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-04:JAO
Misc Info : S-4
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-5

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-05

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0591.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.43	J
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	0.71	J
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-5

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-05

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0591.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

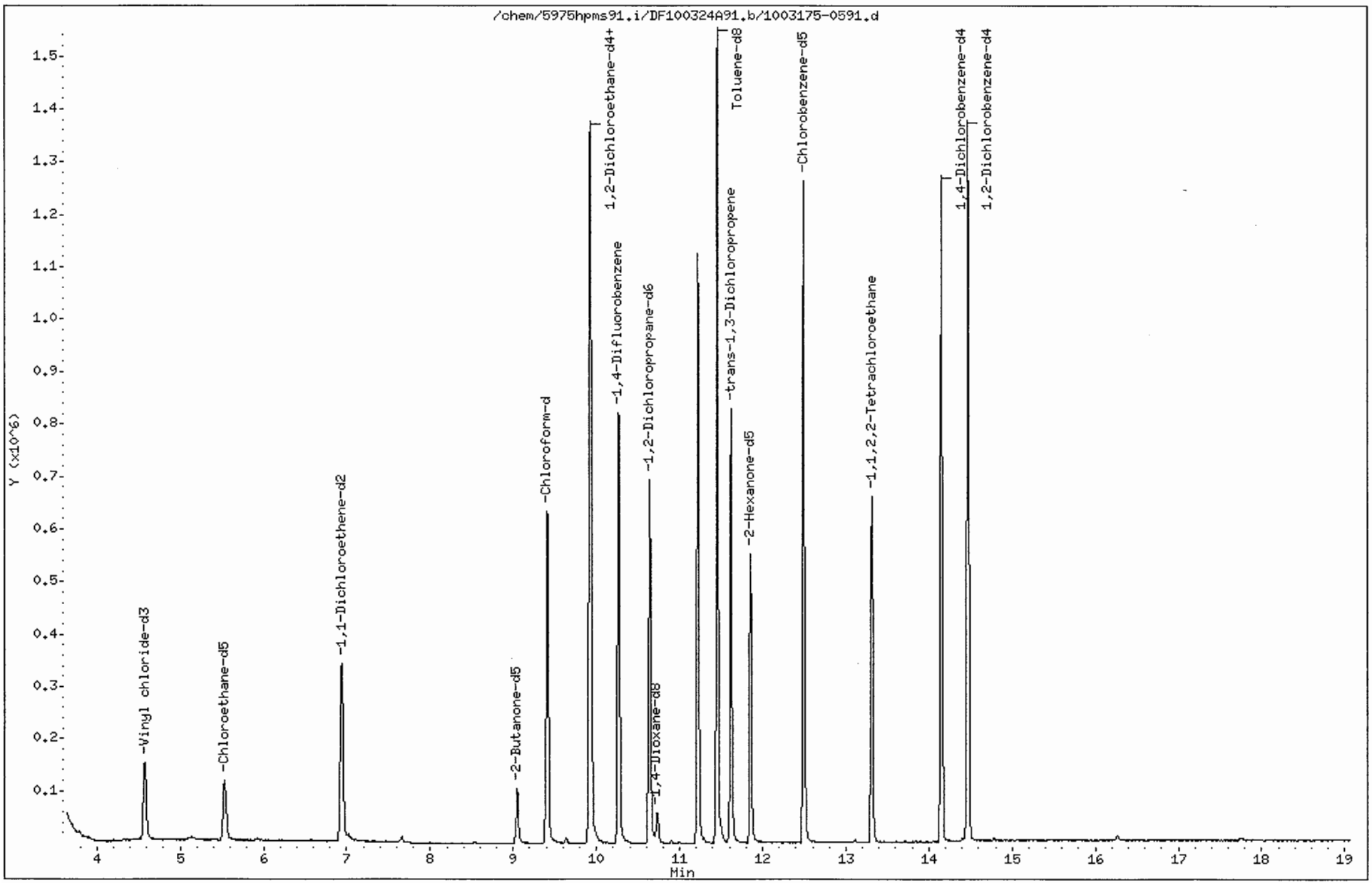
CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d
Date : 24-MAR-2010 15:20
Client ID: S-5
Sample Info: 1003175-05:JA0
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JA0
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d
Lab Smp Id: 1003175-05 Client Smp ID: S-5
Inj Date : 24-MAR-2010 15:20
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-05:JAO
Misc Info : S-5
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.270	10.264	(1.000)	530085	250.000	
* 2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	585871	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	291715	250.000	
$ 4 Vinyl chloride-d3	65	4.576	4.570	(0.446)	218705	277.058	55.4115
$ 5 Chloroethane-d5	69	5.533	5.527	(0.539)	159083	290.112	58.0223
$ 6 1,1-Dichloroethene-d2	63	6.941	6.935	(0.676)	312454	232.026	46.4052
$ 7 2-Butanone-d5	46	9.050	9.050	(0.881)	115868	340.064	68.0128
$ 8 Chloroform-d	84	9.410	9.410	(0.916)	509060	256.030	51.2060
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	355193	269.210	53.8420
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	886485	248.568	49.7137
$ 11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	243312	246.340	49.2679
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	882058	241.758	48.3517
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	375767	228.254	45.6507
$ 14 2-Hexanone-d5	63	11.855	11.849	(0.949)	141057	411.798	82.3596
$ 15 1,4-Dioxane-d8	96	10.733	10.727	(1.045)	31351	3256.23	651.246

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	288711	222.896	44.5792
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	341177	263.433	52.6867
18 Dichlorodifluoromethane	85	3.874	3.875	(0.377)	3806	2.14928	0.429856(a)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.654	7.654	(0.745)	3930	7.28481	1.45696(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	6700	3.54908	0.709817(a)
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d

Date : 24-MAR-2010 15:20

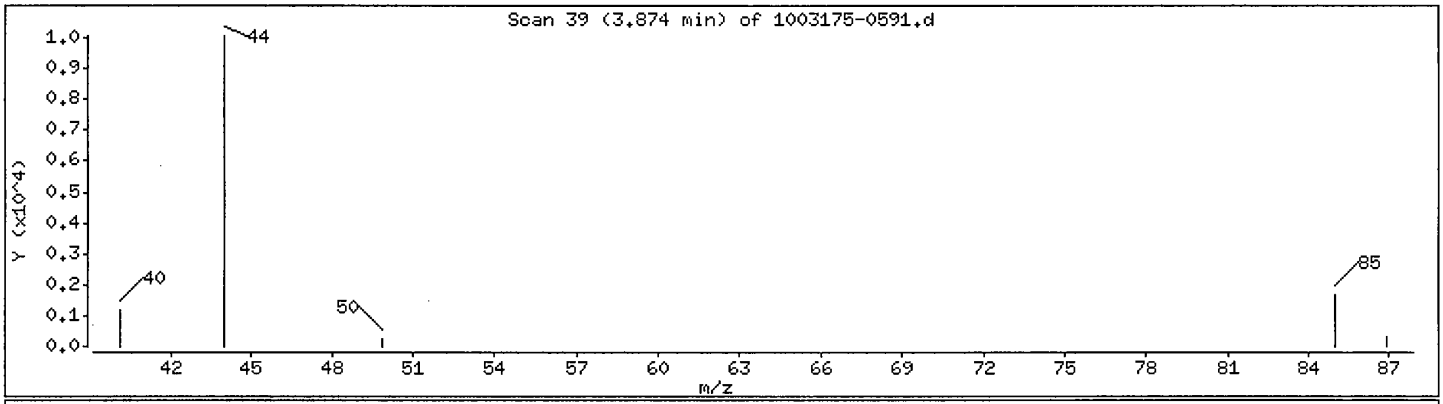
Client ID: S-5 Instrument: 5975hpms91.i

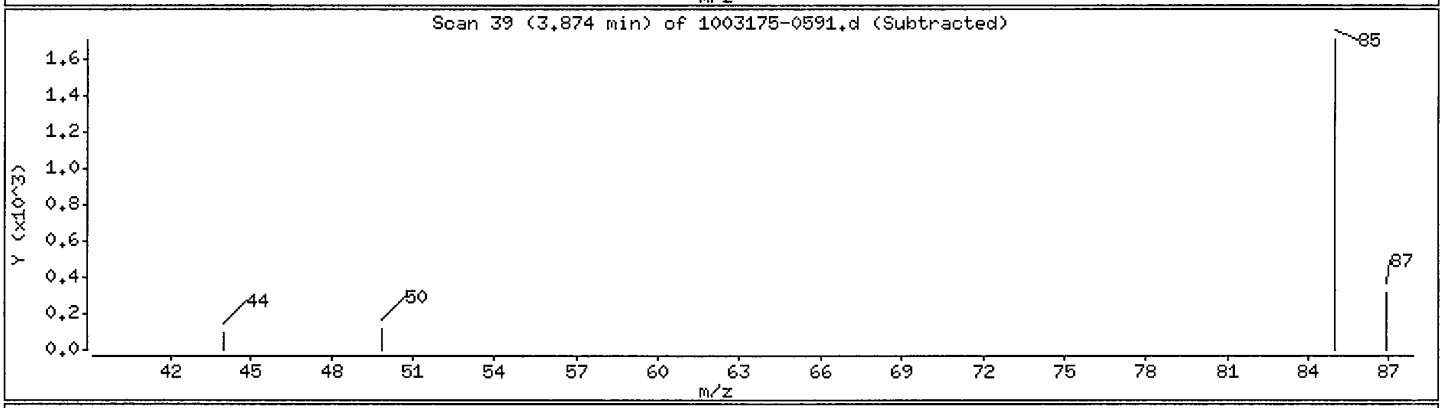
Sample Info: 1003175-05:JAO

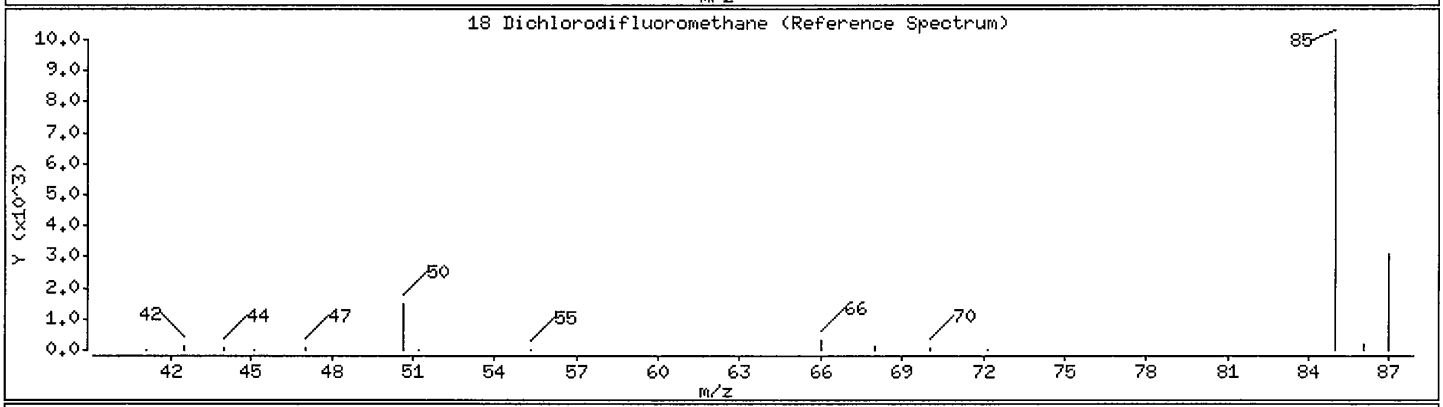
Purge Volume: 5.0 Operator: JAO

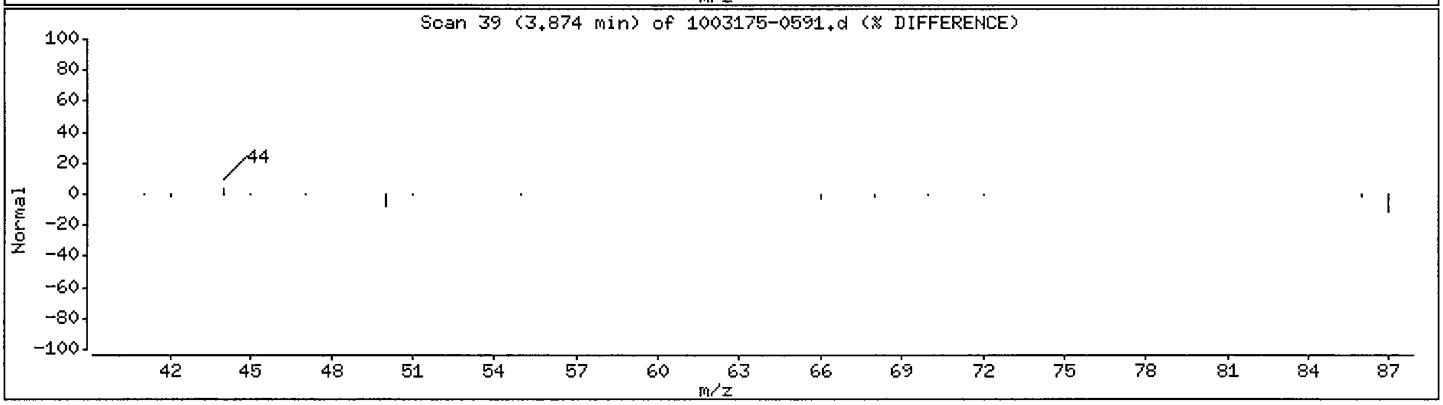
Column phase: SPB-624 Column diameter: 0.32

18 Dichlorodifluoromethane Concentration: 0.429856 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d

Date : 24-MAR-2010 15:20

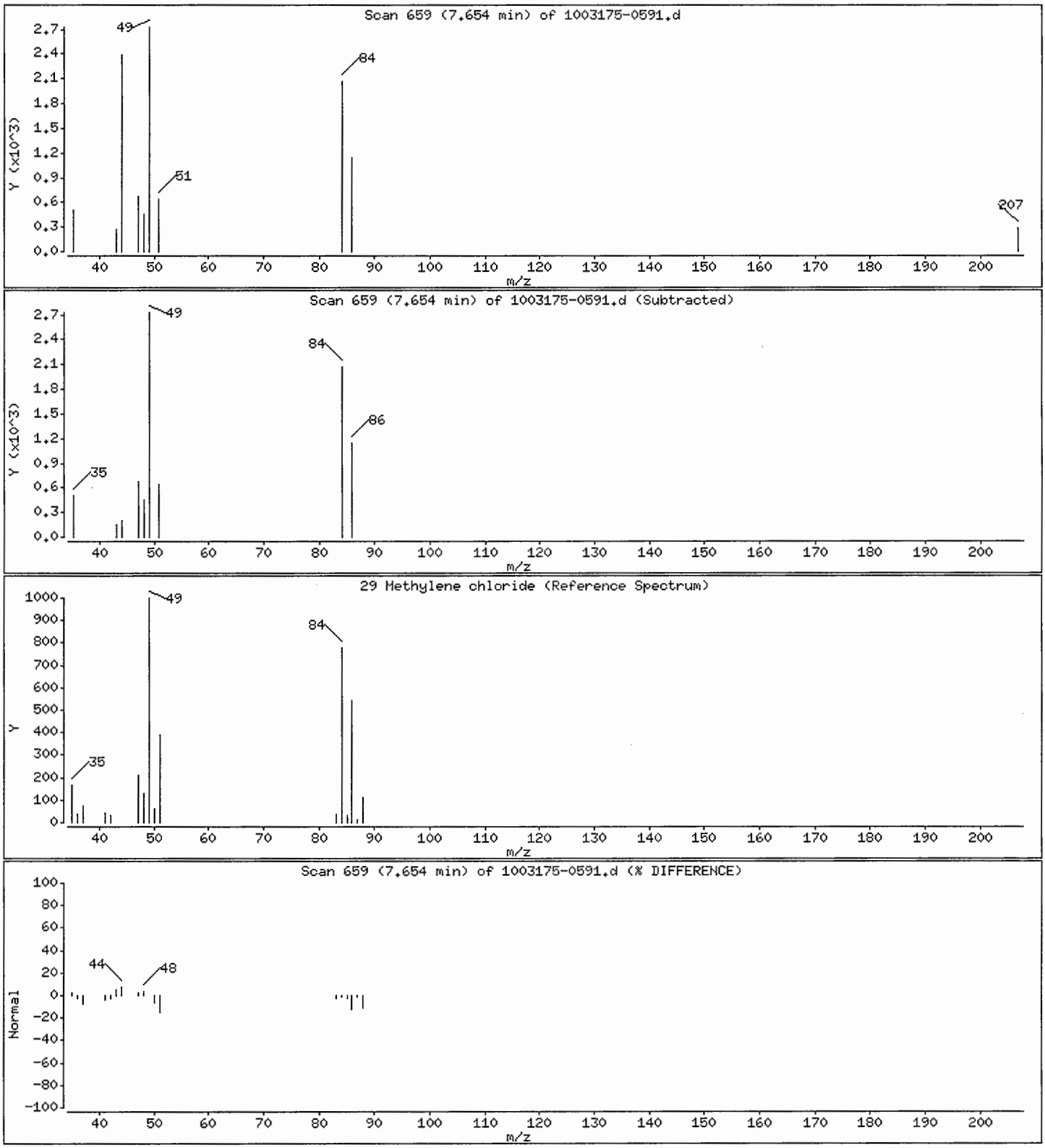
Client ID: S-5 Instrument: 5975hpms91.i

Sample Info: 1003175-05:JAO

Purge Volume: 5.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

29 Methylene chloride Concentration: 1.45696 ug/L



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d

Date : 24-MAR-2010 15:20

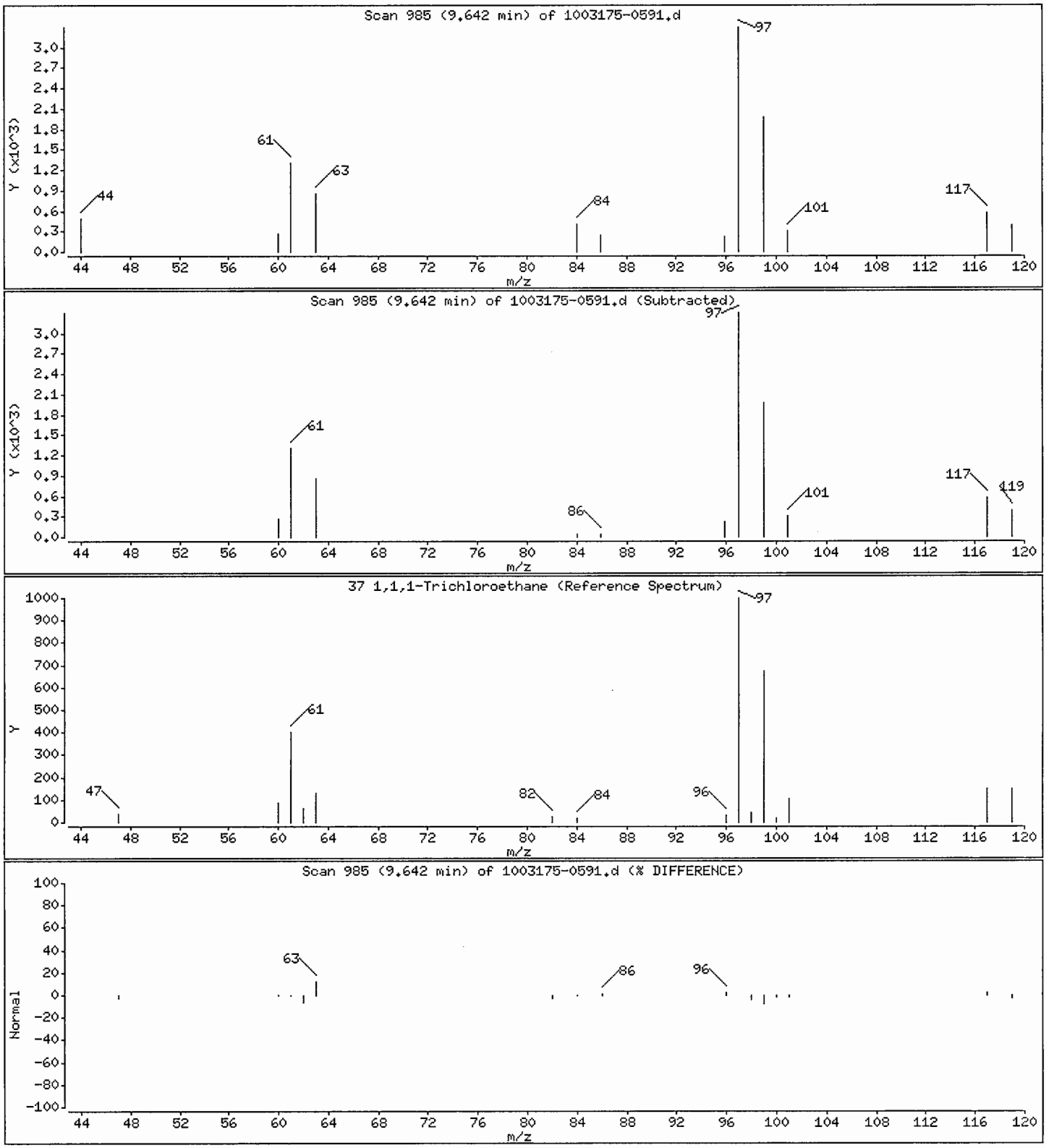
Client ID: S-5 Instrument: 5975hpms91.i

Sample Info: 1003175-05:JAO

Purge Volume: 5.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

37 1,1,1-Trichloroethane Concentration: 0.709817 ug/L



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0591.d
Lab Smp Id: 1003175-05 Client Smp ID: S-5
Inj Date : 24-MAR-2010 15:20
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-05:JAO
Misc Info : S-5
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S-6

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0691.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-6

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0691.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

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 Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
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19					
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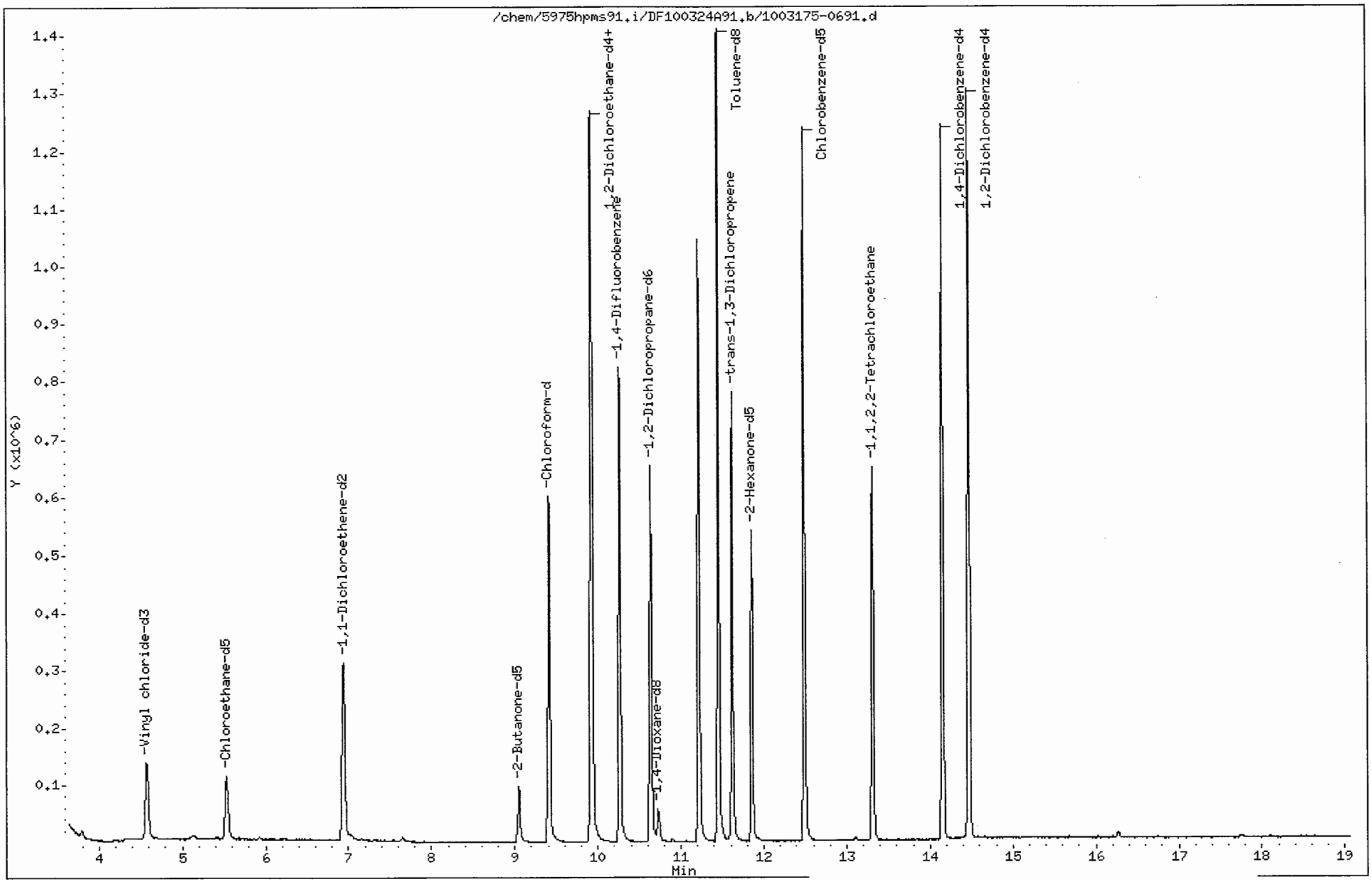
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0691.d
Date : 24-MAR-2010 15:47
Client ID: S-6
Sample Info: 1003175-06;JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0691.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0691.d
Lab Smp Id: 1003175-06 Client Smp ID: S-6
Inj Date : 24-MAR-2010 15:47
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-06:JAO
Misc Info : S-6
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Difluorobenzene	114	10.264	10.264	(1.000)	524086	250.000	
*	2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	578848	250.000	
*	3 1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	287823	250.000	
$	4 Vinyl chloride-d3	65	4.576	4.570	(0.446)	200323	256.676	51.3352
$	5 Chloroethane-d5	69	5.527	5.527	(0.538)	146678	270.551	54.1102
$	6 1,1-Dichloroethene-d2	63	6.941	6.935	(0.676)	287296	215.786	43.1572
$	7 2-Butanone-d5	46	9.050	9.050	(0.882)	110956	329.375	65.8750
$	8 Chloroform-d	84	9.410	9.410	(0.917)	477529	242.921	48.5842
$	9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	336144	257.688	51.5377
$	10 Benzene-d6	84	9.928	9.928	(0.795)	816684	231.775	46.3549
$	11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	228593	234.245	46.8491
$	12 Toluene-d8	98	11.452	11.452	(0.917)	826823	229.369	45.8737
$	13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	355956	218.843	43.7686
	14 2-Hexanone-d5	63	11.855	11.849	(0.949)	137780	407.111	81.4223
	15 1,4-Dioxane-d8	96	10.733	10.727	(1.046)	29687	3118.70	623.739

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0691.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	282269	220.566	44.1133
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	317551	248.507	49.7013
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0691.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0691.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0691.d
Lab Smp Id: 1003175-06 Client Smp ID: S-6
Inj Date : 24-MAR-2010 15:47
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-06:JAO
Misc Info : S-6
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TRIP BLANK

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0791.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TRIP BLANK

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0791.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/19/2010

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

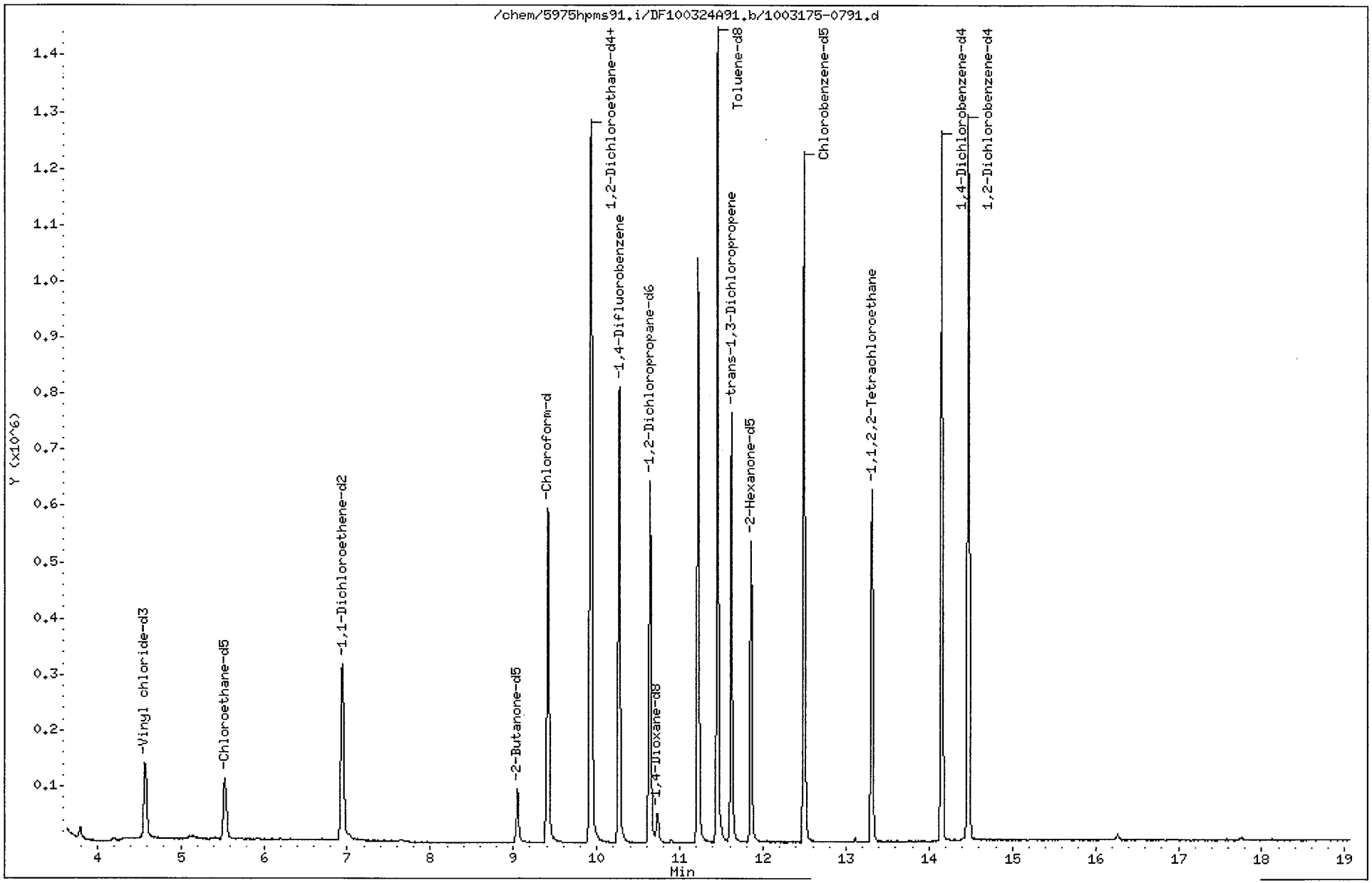
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0791.d
Date : 24-MAR-2010 16:14
Client ID: TRIP BLANK
Instrument: 5975hpms91.i
Sample Info: 1003175-07:JAO
Purge Volume: 5.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0791.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0791.d
Lab Smp Id: 1003175-07 Client Smp ID: TRIP BLANK
Inj Date : 24-MAR-2010 16:14
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-07:JAO
Misc Info : TRIP BLANK
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Difluorobenzene	114	10.270	10.264	(1.000)	518719	250.000	
*	2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	578282	250.000	
*	3 1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	289310	250.000	
$	4 Vinyl chloride-d3	65	4.576	4.570	(0.446)	202202	261.764	52.3528
$	5 Chloroethane-d5	69	5.533	5.527	(0.539)	149089	277.844	55.5687
$	6 1,1-Dichloroethene-d2	63	6.941	6.935	(0.676)	288850	219.198	43.8396
$	7 2-Butanone-d5	46	9.050	9.050	(0.881)	108185	324.472	64.8944
$	8 Chloroform-d	84	9.410	9.410	(0.916)	474804	244.034	48.8067
$	9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	333644	258.418	51.6837
$	10 Benzene-d6	84	9.928	9.928	(0.795)	814536	231.391	46.2783
$	11 1,2-Dichloropropane-d6	67	10.641	10.635	(0.852)	226346	232.170	46.4340
$	12 Toluene-d8	98	11.452	11.452	(0.917)	826789	229.584	45.9168
$	13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	352116	216.694	43.3388
	14 2-Hexanone-d5	63	11.855	11.849	(0.949)	133189	393.931	78.7862
	15 1,4-Dioxane-d8	96	10.733	10.727	(1.045)	29024	3080.59	616.119

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0791.d
Report Date: 25-Mar-2010 19:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16	1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	270744	211.768	42.3536
$ 17	1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	311175	242.265	48.4530
18	Dichlorodifluoromethane	85	Compound Not Detected.					
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	Compound Not Detected.					
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Methylene chloride	84	Compound Not Detected.					
30	trans-1,2-Dichloroethene	96	Compound Not Detected.					
31	Methyl tert-butyl ether	73	Compound Not Detected.					
32	1,1-Dichloroethane	63	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
34	2-Butanone	43	Compound Not Detected.					
35	Bromochloromethane	128	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	1,4-Dioxane	88	Compound Not Detected.					
43	Trichloroethene	95	Compound Not Detected.					
44	Methylcyclohexane	83	Compound Not Detected.					
45	1,2-Dichloropropane	63	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	cis-1,3-Dichloropropene	75	Compound Not Detected.					
48	4-Methyl-2-pentanone	43	Compound Not Detected.					
49	Toluene	91	Compound Not Detected.					
50	trans-1,3-Dichloropropene	75	Compound Not Detected.					
51	1,1,2-Trichloroethane	97	Compound Not Detected.					
52	Tetrachloroethene	164	Compound Not Detected.					
53	2-Hexanone	43	Compound Not Detected.					
54	Dibromochloromethane	129	Compound Not Detected.					
55	1,2-Dibromoethane	107	Compound Not Detected.					
56	Chlorobenzene	112	Compound Not Detected.					
57	Ethylbenzene	91	Compound Not Detected.					
58	m,p-Xylene	106	Compound Not Detected.					
59	o-Xylene	106	Compound Not Detected.					
60	Styrene	104	Compound Not Detected.					
61	Bromoform	173	Compound Not Detected.					
62	Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0791.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0791.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0791.d
Lab Smp Id: 1003175-07 Client Smp ID: TRIP BLANK
Inj Date : 24-MAR-2010 16:14
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-07:JAO
Misc Info : TRIP BLANK
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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, VOA-3, VOA SIM)

b. Continuing Calibration Verification Data (Form VII VOA-1, VOA-2, VOA-3, VOA-SIM)

a. Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3, VOA-SIM)

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.

(1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date(s): 03/05/2010 03/06/2010

Heated Purge: (Y/N) N Calibration Time(s): 2312 0102

Purge Volume: 5.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

LAB FILE ID: _____ RRF5.0= 0C05012-CAL191.d RRF10= 0C05012-CAL291.d

RRF50= 0C05012-CAL391.d RRF100= 0C05012-CAL491.d RRF200= 0C05012-CAL591.d

COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.901	0.879	0.831	0.815	0.749	0.835	7.1
Chloromethane	0.425	0.416	0.407	0.393	0.360	0.400	6.3
Vinyl chloride	0.423	0.421	0.403	0.400	0.371	0.403	5.2
Bromomethane	0.185	0.186	0.177	0.152	0.116	0.163	18.3
Chloroethane	0.213	0.215	0.202	0.201	0.189	0.204	5.0
Trichlorofluoromethane	0.574	0.557	0.534	0.522	0.497	0.537	5.6
1,1-Dichloroethene	0.240	0.239	0.221	0.221	0.213	0.227	5.2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.244	0.228	0.220	0.207	0.213	0.223	6.3
Acetone	0.097	0.090	0.089	0.082	0.082	0.088	7.3
Carbon disulfide	0.918	0.886	0.850	0.793	0.753	0.840	8.0
Methyl acetate	0.245	0.206	0.203	0.192	0.195	0.208	10.2
Methylene chloride	0.272	0.258	0.252	0.245	0.245	0.254	4.3
trans-1,2-Dichloroethene	0.401	0.411	0.398	0.398	0.359	0.393	5.0
Methyl tert-butyl ether	0.979	1.107	1.211	1.240	1.216	1.151	9.4
1,1-Dichloroethane	0.692	0.713	0.697	0.694	0.665	0.692	2.5
cis-1,2-Dichloroethene	0.359	0.377	0.407	0.406	0.389	0.388	5.2
2-Butanone	0.133	0.144	0.171	0.168	0.170	0.157	11.2
Bromochloromethane	0.188	0.191	0.188	0.186	0.175	0.185	3.4
Chloroform	0.857	0.842	0.841	0.824	0.785	0.830	3.3
1,1,1-Trichloroethane	0.833	0.806	0.802	0.797	0.790	0.806	2.1
Cyclohexane	0.297	0.365	0.475	0.464	0.498	0.420	20.4
Carbon tetrachloride	0.735	0.706	0.719	0.697	0.710	0.713	2.0
Benzene	1.419	1.513	1.584	1.526	1.453	1.499	4.3
1,2-Dichloroethane	0.744	0.734	0.746	0.746	0.728	0.740	1.1
1,4-Dioxane	0.004	0.004	0.005	0.005	0.005	0.005	11.9
Trichloroethene	0.390	0.393	0.417	0.418	0.417	0.407	3.5
Methylcyclohexane	0.323	0.435	0.574	0.546	0.576	0.491	22.4

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date(s): 03/05/2010 03/06/2010

Heated Purge: (Y/N) N Calibration Time(s): 2312 0102

Purge Volume: 5.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

LAB FILE ID: _____ RRF5.0= 0C05012-CAL191.d RRF10= 0C05012-CAL291.d

RRF50= 0C05012-CAL391.d RRF100= 0C05012-CAL491.d RRF200= 0C05012-CAL591.d

COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2-Dichloropropane	0.346	0.366	0.385	0.371	0.355	0.365	4.1
Bromodichloromethane	0.636	0.627	0.660	0.664	0.661	0.650	2.6
cis-1,3-Dichloropropene	0.657	0.704	0.792	0.786	0.772	0.742	8.0
4-Methyl-2-pentanone	0.315	0.349	0.400	0.400	0.416	0.376	11.3
Toluene	1.631	1.695	1.802	1.753	1.715	1.719	3.7
trans-1,3-Dichloropropene	0.690	0.736	0.811	0.806	0.796	0.768	6.9
1,1,2-Trichloroethane	0.350	0.345	0.359	0.352	0.348	0.351	1.5
Tetrachloroethene	0.330	0.326	0.329	0.308	0.306	0.320	3.6
2-Hexanone	0.269	0.272	0.326	0.328	0.334	0.306	10.5
Dibromochloromethane	0.448	0.450	0.496	0.493	0.495	0.476	5.3
1,2-Dibromoethane	0.359	0.359	0.398	0.392	0.400	0.381	5.5
Chlorobenzene	1.291	1.246	1.236	1.165	1.118	1.211	5.7
Ethylbenzene	1.920	2.047	2.207	2.091	2.110	2.075	5.0
o-Xylene	0.700	0.760	0.807	0.746	0.725	0.748	5.4
m,p-Xylene	0.679	0.770	0.848	0.809	0.817	0.785	8.3
Styrene	1.191	1.299	1.412	1.316	1.271	1.298	6.2
Bromoform	0.451	0.457	0.521	0.530	0.537	0.499	8.4
Isopropylbenzene	1.611	1.892	2.210	2.078	2.142	1.987	12.1
1,1,2,2-Tetrachloroethane	0.510	0.506	0.530	0.519	0.518	0.516	1.8
1,3-Dichlorobenzene	1.462	1.600	1.727	1.645	1.641	1.615	6.0
1,4-Dichlorobenzene	1.799	1.748	1.792	1.688	1.686	1.743	3.1
1,2-Dichlorobenzene	1.545	1.599	1.641	1.528	1.490	1.560	3.8
1,2-Dibromo-3-chloropropane	0.241	0.232	0.244	0.244	0.267	0.246	5.2
1,2,4-Trichlorobenzene	0.831	0.934	1.090	1.023	1.049	0.985	10.5
1,2,3-Trichlorobenzene	0.807	0.929	1.042	0.988	1.004	0.954	9.6

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date(s): 03/05/2010 03/06/2010

Heated Purge: (Y/N) N Calibration Time(s): 2312 0102

Purge Volume: 5.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

LAB FILE ID: _____ RRF5.0= 0C05012-CAL191.d RRF10= 0C05012-CAL291.d

RRF50= 0C05012-CAL391.d RRF100= 0C05012-CAL491.d RRF200= 0C05012-CAL591.d

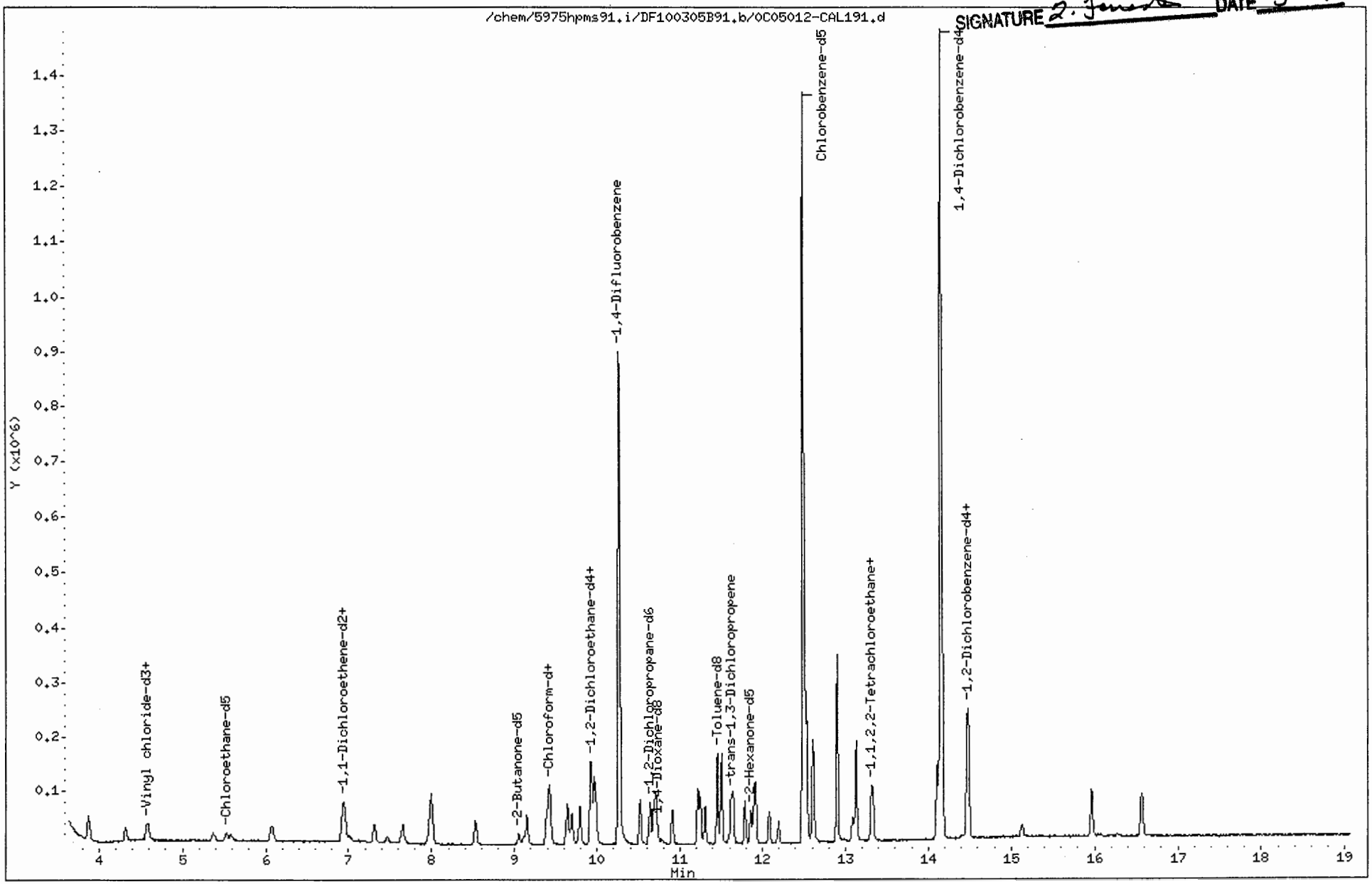
COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Vinyl chloride-d3	0.410	0.373	0.367	0.358	0.353	0.372	6.1
Chloroethane-d5	0.289	0.259	0.255	0.244	0.246	0.259	7.0
1,1-Dichloroethene-d2	0.702	0.629	0.627	0.610	0.607	0.635	6.1
2-Butanone-d5	0.165	0.163	0.155	0.157	0.164	0.161	2.7
Chloroform-d	1.008	0.937	0.947	0.911	0.885	0.938	4.9
1,2-Dichloroethane-d4	0.673	0.610	0.628	0.605	0.596	0.622	4.9
Benzene-d6	1.576	1.459	1.573	1.526	1.476	1.522	3.6
1,2-Dichloropropane-d6	0.433	0.395	0.436	0.424	0.420	0.421	3.8
Toluene-d8	1.524	1.444	1.641	1.608	1.568	1.557	4.9
trans-1,3-Dichloropropene-d4	0.656	0.648	0.736	0.740	0.733	0.702	6.6
2-Hexanone-d5	0.115	0.132	0.157	0.161	0.166	0.146	14.9
1,4-Dioxane-d8	0.004	0.004	0.005	0.005	0.005	0.005	8.0
1,1,2,2-Tetrachloroethane-d2	0.578	0.537	0.558	0.546	0.544	0.553	2.9
1,2-Dichlorobenzene-d4	1.202	1.114	1.139	1.088	1.005	1.110	6.5

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL191.d
Date : 05-MAR-2010 23:39
Client ID: VSTD005XD
Sample Info: 0C05012-CAL1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- B81A9
SIGNATURE J. Jones DATE 3-18-10



Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL191.d
Report Date: 09-Mar-2010 12:21

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL191.d
Lab Smp Id: 0C05012-CAL1 Client Smp ID: VSTD005XD
Inj Date : 05-MAR-2010 23:39
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 0C05012-CAL1:TD
Misc Info : VSTD005XD
Comment :
Method : /chem/5975hpms91.i/DF100305B91.b/SOM01.2_WATERv2.m
Meth Date : 09-Mar-2010 12:21 keng Quant Type: ISTD
Cal Date : 05-MAR-2010 23:39 Cal File: 0C05012-CAL191.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	AMOUNTS ON-COL (ng)
* 1	1,4-Difluorobenzene	114	10.264	10.263	(1.000)	636794	250.000	
* 2	Chlorobenzene-d5	117	12.489	12.489	(1.000)	635117	250.000	
* 3	1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	366088	250.000	
$ 4	Vinyl chloride-d3	65	4.569	4.563	(0.445)	26137	25.0000	25.0000
$ 5	Chloroethane-d5	69	5.527	5.502	(0.538)	18403	25.0000	25.0000
$ 6	1,1-Dichloroethene-d2	63	6.935	6.929	(0.676)	44723	25.0000	25.0000
$ 7	2-Butanone-d5	46	9.050	9.050	(0.882)	21020	50.0000	50.0000
$ 8	Chloroform-d	84	9.410	9.410	(0.917)	64197	25.0000	25.0000
$ 9	1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	42838	25.0000	25.0000
$ 10	Benzene-d6	84	9.928	9.928	(0.795)	100117	25.0000	25.0000
$ 11	1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	27513	25.0000	25.0000
$ 12	Toluene-d8	98	11.452	11.452	(0.917)	96772	25.0000	25.0000
$ 13	trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	41682	25.0000	25.0000
$ 14	2-Hexanone-d5	63	11.855	11.855	(0.949)	14586	50.0000	50.0000
$ 15	1,4-Dioxane-d8	96	10.733	10.733	(1.046)	5413	500.000	500.000
$ 16	1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	36717	25.0000	25.0000

3.9.10

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL191.d
Report Date: 09-Mar-2010 12:21

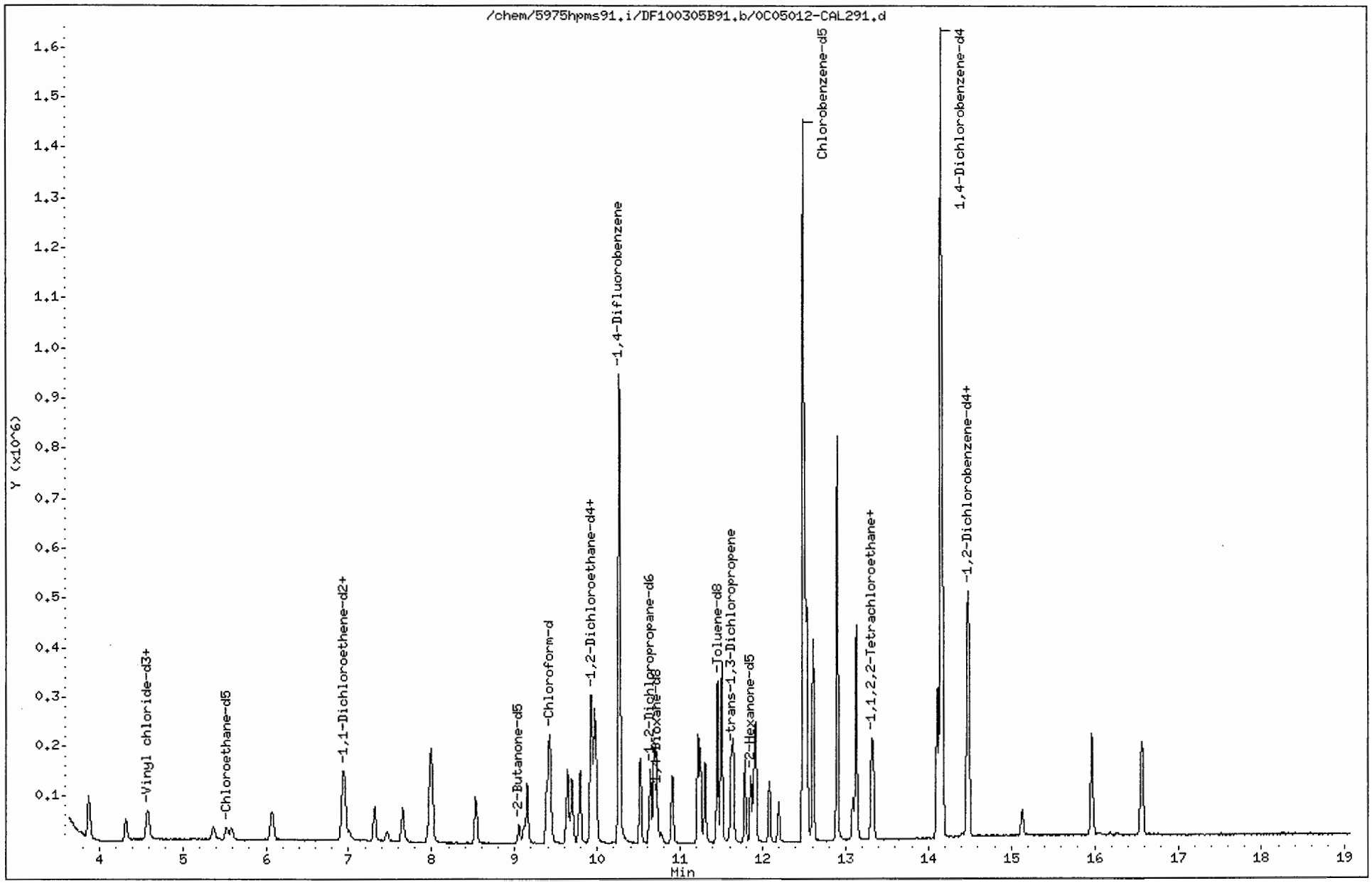
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	44018	25.0000	25.0000
18 Dichlorodifluoromethane	85	3.874	3.868	(0.377)	57347	25.0000	25.0000
19 Chloromethane	50	4.320	4.319	(0.421)	27041	25.0000	25.0000
20 Vinyl chloride	62	4.588	4.582	(0.447)	26956	25.0000	25.0000
21 Bromomethane	94	5.368	5.319	(0.523)	11809	25.0000	25.0000
22 Chloroethane	64	5.588	5.563	(0.544)	13565	25.0000	25.0000
23 Trichlorofluoromethane	101	6.075	6.063	(0.592)	36555	25.0000	25.0000
24 1,1-Dichloroethene	96	6.953	6.953	(0.677)	15294	25.0000	25.0000
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.923	6.923	(0.674)	15529	25.0000	25.0000
26 Acetone	43	7.002	7.014	(0.682)	12415	50.0000	50.0000
27 Carbon disulfide	76	7.313	7.307	(0.713)	58433	25.0000	25.0000
28 Methyl acetate	43	7.465	7.465	(0.727)	15593	25.0000	25.0000
29 Methylene chloride	84	7.654	7.648	(0.746)	17295	25.0000	25.0000
30 trans-1,2-Dichloroethene	96	8.008	7.996	(0.780)	25537	25.0000	25.0000
31 Methyl tert-butyl ether	73	7.983	7.971	(0.778)	62364	25.0000	25.0000
32 1,1-Dichloroethane	63	8.526	8.526	(0.831)	44085	25.0000	25.0000
33 cis-1,2-Dichloroethene	96	9.148	9.148	(0.891)	22857	25.0000	25.0000
34 2-Butanone	43	9.111	9.111	(0.888)	16962	50.0000	50.0000
35 Bromochloromethane	128	9.392	9.386	(0.915)	11990	25.0000	25.0000
36 Chloroform	83	9.434	9.428	(0.919)	54579	25.0000	25.0000
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	52917	25.0000	25.0000
38 Cyclohexane	56	9.697	9.690	(0.776)	18853	25.0000	25.0000
39 Carbon tetrachloride	117	9.794	9.788	(0.784)	46667	25.0000	25.0000
40 Benzene	78	9.965	9.965	(0.798)	90117	25.0000	25.0000
41 1,2-Dichloroethane	62	9.989	9.983	(0.973)	47359	25.0000	25.0000
42 1,4-Dioxane	88	10.770	10.776	(1.049)	5205	500.000	500.000
43 Trichloroethene	95	10.520	10.520	(0.842)	24765	25.0000	25.0000
44 Methylcyclohexane	83	10.684	10.684	(0.855)	20525	25.0000	25.0000
45 1,2-Dichloropropane	63	10.715	10.708	(0.858)	21990	25.0000	25.0000
46 Bromodichloromethane	83	10.910	10.904	(0.874)	40413	25.0000	25.0000
47 cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	41732	25.0000	25.0000
48 4-Methyl-2-pentanone	43	11.306	11.300	(0.905)	39976	50.0000	50.0000
49 Toluene	91	11.501	11.501	(0.921)	103605	25.0000	25.0000
50 trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	43808	25.0000	25.0000
51 1,1,2-Trichloroethane	97	11.781	11.788	(0.943)	22230	25.0000	25.0000
52 Tetrachloroethene	164	11.916	11.916	(0.954)	20940	25.0000	25.0000
53 2-Hexanone	43	11.891	11.885	(0.952)	34149	50.0000	50.0000
54 Dibromochloromethane	129	12.080	12.086	(0.967)	28470	25.0000	25.0000
55 1,2-Dibromoethane	107	12.196	12.196	(0.977)	22778	25.0000	25.0000
56 Chlorobenzene	112	12.513	12.513	(1.002)	82007	25.0000	25.0000
57 Ethylbenzene	91	12.537	12.537	(1.004)	121941	25.0000	25.0000
58 m,p-Xylene	106	12.611	12.611	(1.010)	43156	25.0000	25.0000
59 o-Xylene	106	12.897	12.897	(1.033)	44449	25.0000	25.0000
60 Styrene	104	12.903	12.903	(1.033)	75616	25.0000	25.0000
61 Bromoform	173	13.086	13.086	(0.925)	16513	25.0000	25.0000
62 Isopropylbenzene	105	13.129	13.129	(1.051)	102311	25.0000	25.0000
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	32412	25.0000	25.0000

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL191.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	14.110	14.110	(0.997)	53529	25.0000	25.0000
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	65843	25.0000	25.0000
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	56552	25.0000	25.0000
67 1,2-Dibromo-3-chloropropane	75	15.128	15.128	(1.069)	8806	25.0000	25.0000
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	30427	25.0000	25.0000
69 1,2,3-Trichlorobenzene	180	16.567	16.567	(1.171)	29546	25.0000	25.0000

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL291.d
Date : 05-MAR-2010 23:12
Client ID: VSTD010XD
Sample Info: 0C05012-CAL2:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL291.d
Report Date: 09-Mar-2010 12:21

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL291.d
Lab Smp Id: 0C05012-CAL2 Client Smp ID: VSTD010XD
Inj Date : 05-MAR-2010 23:12
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 0C05012-CAL2:TD
Misc Info : VSTD010XD
Comment :
Method : /chem/5975hpms91.i/DF100305B91.b/SOM01.2_WATERv2.m
Meth Date : 09-Mar-2010 12:21 keng Quant Type: ISTD
Cal Date : 05-MAR-2010 23:12 Cal File: 0C05012-CAL291.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.263	10.263	(1.000)	675511	250.000	
* 2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	676861	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	396294	250.000	
$ 4 Vinyl chloride-d3	65	4.569	4.563	(0.445)	50349	50.0000	47.5883
$ 5 Chloroethane-d5	69	5.533	5.502	(0.539)	34955	50.0000	47.2373
$ 6 1,1-Dichloroethene-d2	63	6.935	6.929	(0.676)	85002	50.0000	47.2532
$ 7 2-Butanone-d5	46	9.050	9.050	(0.882)	43936	100.000	99.2545
$ 8 Chloroform-d	84	9.410	9.410	(0.917)	126588	50.0000	48.1711
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	82366	50.0000	47.5414
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	197463	50.0000	48.0612
$ 11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	53479	50.0000	47.6973
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	195475	50.0000	48.6571
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	87654	50.0000	49.6631
$ 14 2-Hexanone-d5	63	11.855	11.855	(0.949)	35805	100.000	107.049
$ 15 1,4-Dioxane-d8	96	10.727	10.733	(1.045)	10990	1000.00	978.009
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	72629	50.0000	48.1339

D
3-9-10

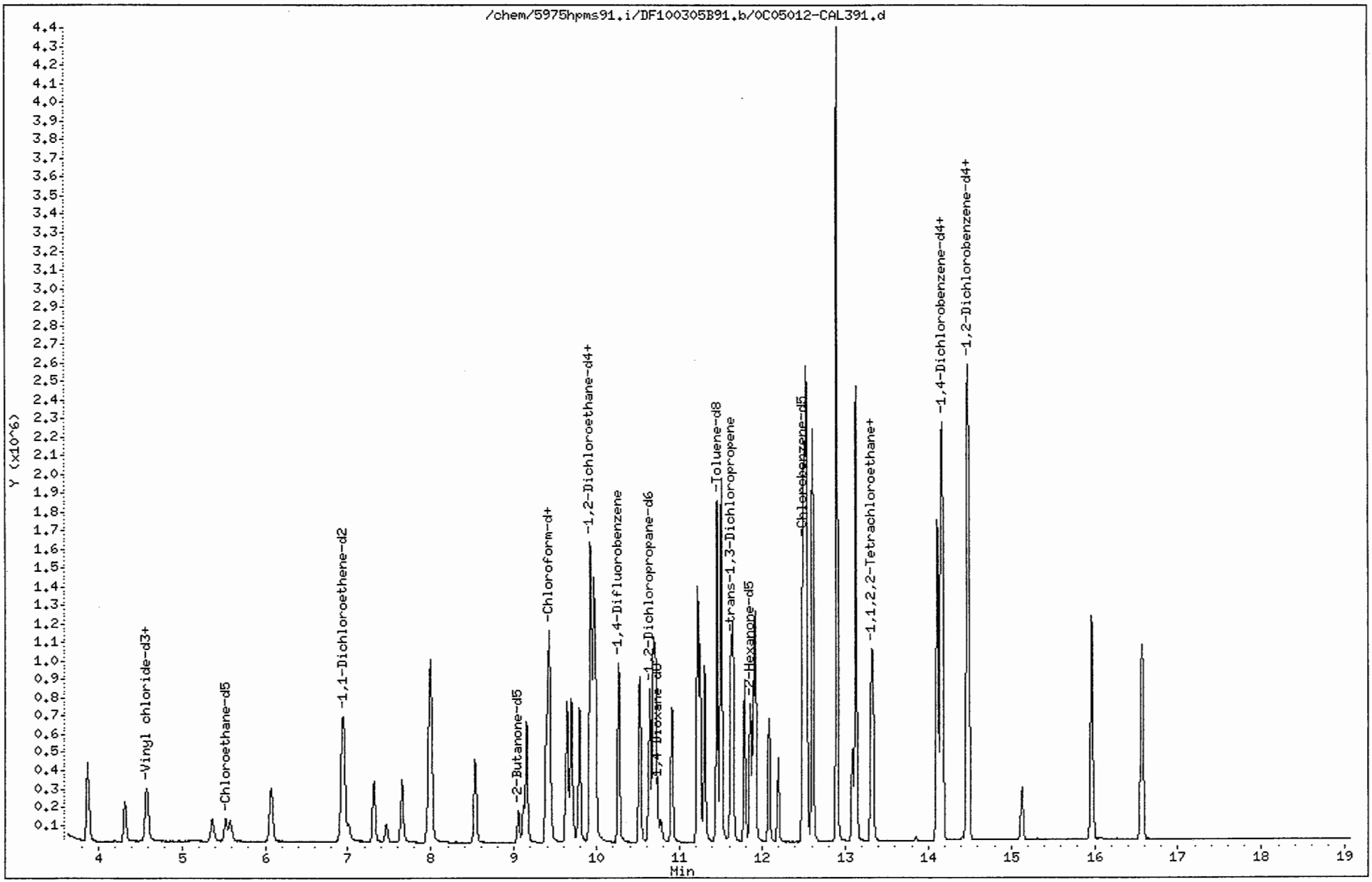
Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL291.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	88320	50.0000	48.0994
18 Dichlorodifluoromethane	85	3.874	3.868	(0.377)	118766	50.0000	49.3966
19 Chloromethane	50	4.313	4.319	(0.420)	56169	50.0000	49.4710
20 Vinyl chloride	62	4.588	4.582	(0.447)	56820	50.0000	49.8378
21 Bromomethane	94	5.368	5.319	(0.523)	25156	50.0000	50.1016
22 Chloroethane	64	5.581	5.563	(0.544)	29006	50.0000	50.1960
23 Trichlorofluoromethane	101	6.075	6.063	(0.592)	75258	50.0000	49.2484
24 1,1-Dichloroethene	96	6.959	6.953	(0.678)	32279	50.0000	49.8696
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.935	6.923	(0.676)	30768	50.0000	48.2906
26 Acetone	43	7.014	7.014	(0.683)	24258	100.000	95.8859
27 Carbon disulfide	76	7.313	7.307	(0.713)	119633	50.0000	49.1095
28 Methyl acetate	43	7.465	7.465	(0.727)	27804	50.0000	45.6656
29 Methylene chloride	84	7.654	7.648	(0.746)	34881	50.0000	48.7341
30 trans-1,2-Dichloroethene	96	8.002	7.996	(0.780)	55493	50.0000	50.5989
31 Methyl tert-butyl ether	73	7.983	7.971	(0.778)	149524	50.0000	53.0537
32 1,1-Dichloroethane	63	8.526	8.526	(0.831)	96312	50.0000	50.7325
33 cis-1,2-Dichloroethene	96	9.154	9.148	(0.892)	50979	50.0000	51.2494
34 2-Butanone	43	9.111	9.111	(0.888)	38780	100.000	103.736
35 Bromochloromethane	128	9.386	9.386	(0.914)	25749	50.0000	50.3038
36 Chloroform	83	9.434	9.428	(0.919)	113728	50.0000	49.5498
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	109052	50.0000	49.1575
38 Cyclohexane	56	9.697	9.690	(0.776)	49396	50.0000	55.1416
39 Carbon tetrachloride	117	9.794	9.788	(0.784)	95528	50.0000	48.9896
40 Benzene	78	9.965	9.965	(0.798)	204854	50.0000	51.6091
41 1,2-Dichloroethane	62	9.983	9.983	(0.973)	99141	50.0000	49.6654
42 1,4-Dioxane	88	10.776	10.776	(1.050)	11581	1000.00	1023.78
43 Trichloroethene	95	10.520	10.520	(0.842)	53197	50.0000	50.1942
44 Methylcyclohexane	83	10.684	10.684	(0.855)	58908	50.0000	57.3838
45 1,2-Dichloropropane	63	10.709	10.708	(0.857)	49603	50.0000	51.4161
46 Bromodichloromethane	83	10.910	10.904	(0.874)	84927	50.0000	49.6459
47 cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	95314	50.0000	51.7269
48 4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	94480	100.000	105.161
49 Toluene	91	11.501	11.501	(0.921)	229390	50.0000	50.9507
50 trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	99695	50.0000	51.6368
51 1,1,2-Trichloroethane	97	11.788	11.788	(0.944)	46761	50.0000	49.6701
52 Tetrachloroethene	164	11.916	11.916	(0.954)	44066	50.0000	49.6806
53 2-Hexanone	43	11.891	11.885	(0.952)	73749	100.000	100.657
54 Dibromochloromethane	129	12.086	12.086	(0.968)	60859	50.0000	50.0726
55 1,2-Dibromoethane	107	12.196	12.196	(0.977)	48614	50.0000	50.0328
56 Chlorobenzene	112	12.513	12.513	(1.002)	168721	50.0000	49.1160
57 Ethylbenzene	91	12.537	12.537	(1.004)	277107	50.0000	51.6010
58 m,p-Xylene	106	12.611	12.611	(1.010)	104172	50.0000	53.1064
59 o-Xylene	106	12.897	12.897	(1.033)	102920	50.0000	52.0690
60 Styrene	104	12.903	12.903	(1.033)	175866	50.0000	52.1799
61 Bromoform	173	13.086	13.086	(0.925)	36188	50.0000	50.3037
62 Isopropylbenzene	105	13.129	13.129	(1.051)	256170	50.0000	54.0168
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	68459	50.0000	49.7726

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL291.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	14.104	14.110	(0.997)	126846	50.0000	52.2565
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	138543	50.0000	49.2870
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	126736	50.0000	50.8628
67 1,2-Dibromo-3-chloropropane	75	15.128	15.128	(1.069)	18426	50.0000	49.1476
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	74045	50.0000	52.9195
69 1,2,3-Trichlorobenzene	180	16.567	16.567	(1.171)	73598	50.0000	53.5003

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL391.d
Date : 06-MAR-2010 01:02
Client ID: VSTD050XD
Instrument: 5975hpms91.i
Sample Info: 0C05012-CAL3:TD
Purge Volume: 5.0
Operator: TD
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL391.d
Report Date: 09-Mar-2010 12:21

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL391.d
Lab Smp Id: 0C05012-CAL3 Client Smp ID: VSTD050XD
Inj Date : 06-MAR-2010 01:02
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 0C05012-CAL3:TD
Misc Info : VSTD050XD
Comment :
Method : /chem/5975hpms91.i/DF100305B91.b/SOM01.2_WATERv2.m
Meth Date : 09-Mar-2010 12:21 keng Quant Type: ISTD
Cal Date : 06-MAR-2010 01:02 Cal File: 0C05012-CAL391.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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	1,4-Difluorobenzene	114	10.264	10.263	(1.000)	692026	250.000	
* 2	Chlorobenzene-d5	117	12.489	12.489	(1.000)	696157	250.000	
* 3	1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	406427	250.000	
$ 4	Vinyl chloride-d3	65	4.570	4.563	(0.445)	253783	250.000	239.201
$ 5	Chloroethane-d5	69	5.527	5.502	(0.538)	176382	250.000	238.173
$ 6	1,1-Dichloroethene-d2	63	6.935	6.929	(0.676)	433720	250.000	240.041
$ 7	2-Butanone-d5	46	9.050	9.050	(0.882)	214756	500.000	482.065
$ 8	Chloroform-d	84	9.410	9.410	(0.917)	655494	250.000	245.619
$ 9	1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	434912	250.000	246.671
$ 10	Benzene-d6	84	9.928	9.928	(0.795)	1094835	250.000	255.987
$ 11	1,2-Dichloropropane-d6	67	10.636	10.635	(0.852)	303261	250.000	258.505
$ 12	Toluene-d8	98	11.452	11.452	(0.917)	1142082	250.000	267.004
$ 13	trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	512280	250.000	270.585
$ 14	2-Hexanone-d5	63	11.855	11.855	(0.949)	218854	500.000	583.236
$ 15	1,4-Dioxane-d8	96	10.733	10.733	(1.046)	64682	5000.00	5396.15
$ 16	1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	388747	250.000	250.330

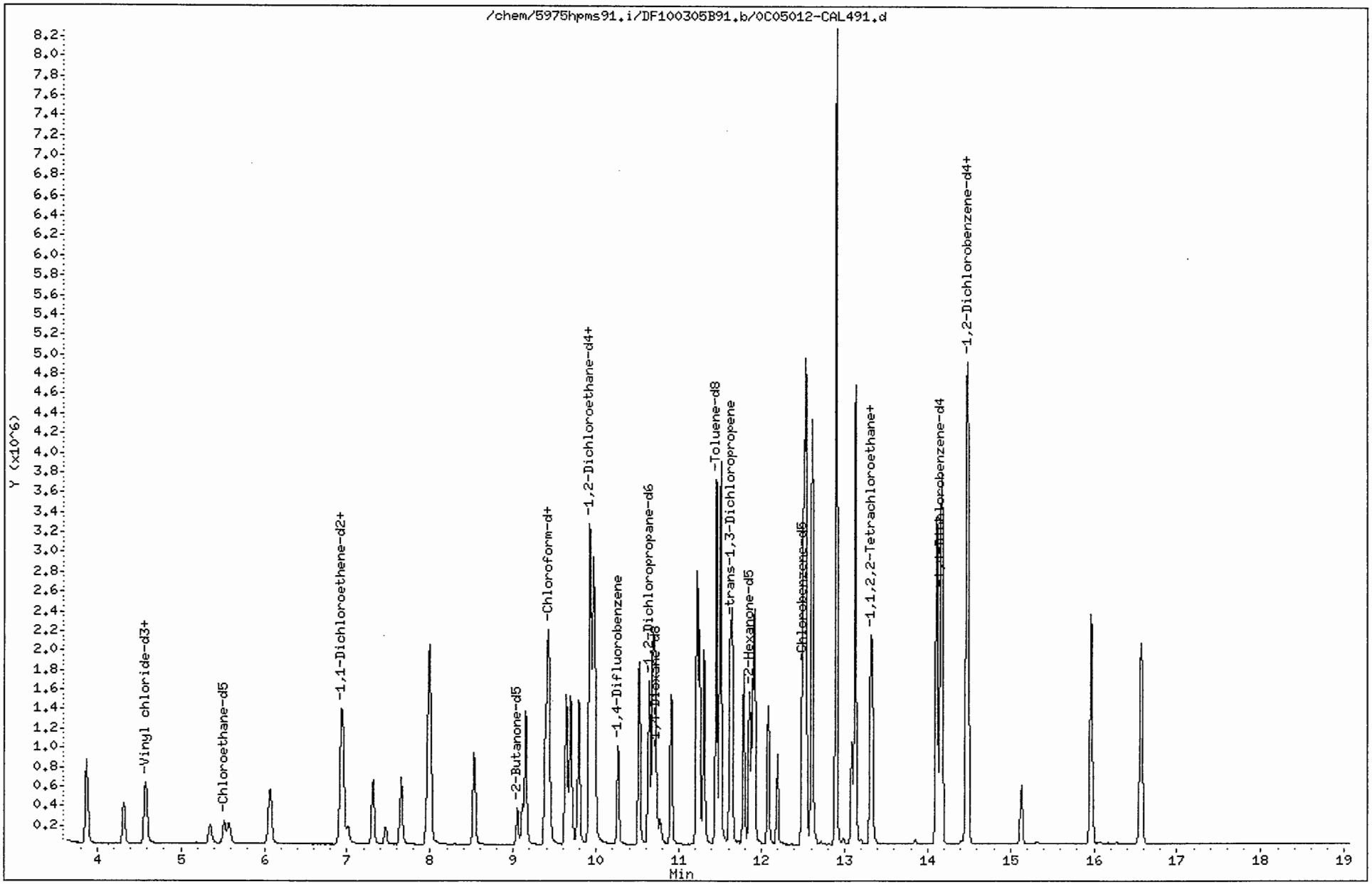
Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL391.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	463048	250.000	247.245
18 Dichlorodifluoromethane	85	3.875	3.868	(0.377)	575368	250.000	238.818
19 Chloromethane	50	4.320	4.319	(0.421)	281806	250.000	244.799
20 Vinyl chloride	62	4.588	4.582	(0.447)	278662	250.000	242.273
21 Bromomethane	94	5.368	5.319	(0.523)	122359	250.000	241.787
22 Chloroethane	64	5.582	5.563	(0.544)	139957	250.000	240.780
23 Trichlorofluoromethane	101	6.069	6.063	(0.591)	369223	250.000	240.386
24 1,1-Dichloroethene	96	6.959	6.953	(0.678)	153041	250.000	236.863
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.923	6.923	(0.674)	152474	250.000	238.821
26 Acetone	43	7.008	7.014	(0.683)	123743	500.000	484.739
27 Carbon disulfide	76	7.313	7.307	(0.713)	587909	250.000	240.197
28 Methyl acetate	43	7.465	7.465	(0.727)	140151	250.000	232.539
29 Methylene chloride	84	7.654	7.648	(0.746)	174471	250.000	241.832
30 trans-1,2-Dichloroethene	96	8.002	7.996	(0.780)	275086	250.000	246.536
31 Methyl tert-butyl ether	73	7.977	7.971	(0.777)	838048	250.000	275.471
32 1,1-Dichloroethane	63	8.526	8.526	(0.831)	482477	250.000	248.717
33 cis-1,2-Dichloroethene	96	9.148	9.148	(0.891)	281954	250.000	267.179
34 2-Butanone	43	9.111	9.111	(0.888)	237156	500.000	573.646
35 Bromochloromethane	128	9.386	9.386	(0.914)	130229	250.000	248.895
36 Chloroform	83	9.434	9.428	(0.919)	581850	250.000	248.297
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	558454	250.000	246.480
38 Cyclohexane	56	9.691	9.690	(0.776)	330854	250.000	313.497
39 Carbon tetrachloride	117	9.788	9.788	(0.784)	500685	250.000	249.766
40 Benzene	78	9.965	9.965	(0.798)	1102498	250.000	263.022
41 1,2-Dichloroethane	62	9.983	9.983	(0.973)	516544	250.000	251.721
42 1,4-Dioxane	88	10.776	10.776	(1.050)	67722	5000.00	5532.63
43 Trichloroethene	95	10.520	10.520	(0.842)	290400	250.000	260.708
44 Methylcyclohexane	83	10.684	10.684	(0.855)	399387	250.000	323.024
45 1,2-Dichloropropane	63	10.709	10.708	(0.857)	268203	250.000	263.177
46 Bromodichloromethane	83	10.904	10.904	(0.873)	459511	250.000	257.338
47 cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	551127	250.000	275.801
48 4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	556439	500.000	563.773
49 Toluene	91	11.501	11.501	(0.921)	1254733	250.000	263.599
50 trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	564775	250.000	271.937
51 1,1,2-Trichloroethane	97	11.788	11.788	(0.944)	249778	250.000	255.253
52 Tetrachloroethene	164	11.916	11.916	(0.954)	229210	250.000	250.833
53 2-Hexanone	43	11.885	11.885	(0.952)	454040	500.000	563.975
54 Dibromochloromethane	129	12.080	12.086	(0.967)	345248	250.000	266.867
55 1,2-Dibromoethane	107	12.196	12.196	(0.977)	276854	250.000	267.397
56 Chlorobenzene	112	12.513	12.513	(1.002)	860554	250.000	245.677
57 Ethylbenzene	91	12.538	12.537	(1.004)	1536148	250.000	268.071
58 m,p-Xylene	106	12.611	12.611	(1.010)	590244	250.000	276.852
59 o-Xylene	106	12.897	12.897	(1.033)	561632	250.000	266.917
60 Styrene	104	12.897	12.903	(1.033)	983167	250.000	271.453
61 Bromoform	173	13.086	13.086	(0.925)	211706	250.000	273.476
62 Isopropylbenzene	105	13.129	13.129	(1.051)	1538480	250.000	290.113
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	368777	250.000	257.023

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL391.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	14.104	14.110	(0.997)	702068	250.000	270.472
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	728423	250.000	251.779
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	666922	250.000	257.216
67 1,2-Dibromo-3-chloropropane	75	15.129	15.128	(1.069)	99255	250.000	255.370
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	442924	250.000	286.271
69 1,2,3-Trichlorobenzene	180	16.567	16.567	(1.171)	423518	250.000	281.361

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL491.d
Date : 06-MAR-2010 00:34
Client ID: VSTD100XD
Instrument: 5975hpms91.i
Sample Info: 0C05012-CAL4:TD
Purge Volume: 5.0
Operator: TD
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL491.d
Report Date: 09-Mar-2010 12:21

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL491.d
Lab Smp Id: 0C05012-CAL4 Client Smp ID: VSTD100XD
Inj Date : 06-MAR-2010 00:34
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 0C05012-CAL4:TD
Misc Info : VSTD100XD
Comment :
Method : /chem/5975hpms91.i/DF100305B91.b/SOM01.2_WATERv2.m
Meth Date : 09-Mar-2010 12:21 keng Quant Type: ISTD
Cal Date : 06-MAR-2010 00:34 Cal File: 0C05012-CAL491.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.264	10.263	(1.000)	718815	250.000	
* 2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	721515	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	414128	250.000	
$ 4 Vinyl chloride-d3	65	4.570	4.563	(0.445)	515150	500.000	475.186
$ 5 Chloroethane-d5	69	5.521	5.502	(0.538)	351312	500.000	466.811
$ 6 1,1-Dichloroethene-d2	63	6.935	6.929	(0.676)	877388	500.000	475.216
$ 7 2-Butanone-d5	46	9.050	9.050	(0.882)	451639	1000.00	981.903
$ 8 Chloroform-d	84	9.410	9.410	(0.917)	1309698	500.000	479.060
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	869078	500.000	480.665
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	2201901	500.000	497.551
$ 11 1,2-Dichloropropane-d6	67	10.636	10.635	(0.852)	611669	500.000	502.301
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	2320953	500.000	517.449
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	1068040	500.000	532.511
$ 14 2-Hexanone-d5	63	11.855	11.855	(0.949)	463406	1000.00	1137.10
$ 15 1,4-Dioxane-d8	96	10.727	10.733	(1.045)	140350	10000.0	10924.9
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	788129	500.000	492.214

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL491.d
Report Date: 09-Mar-2010 12:21

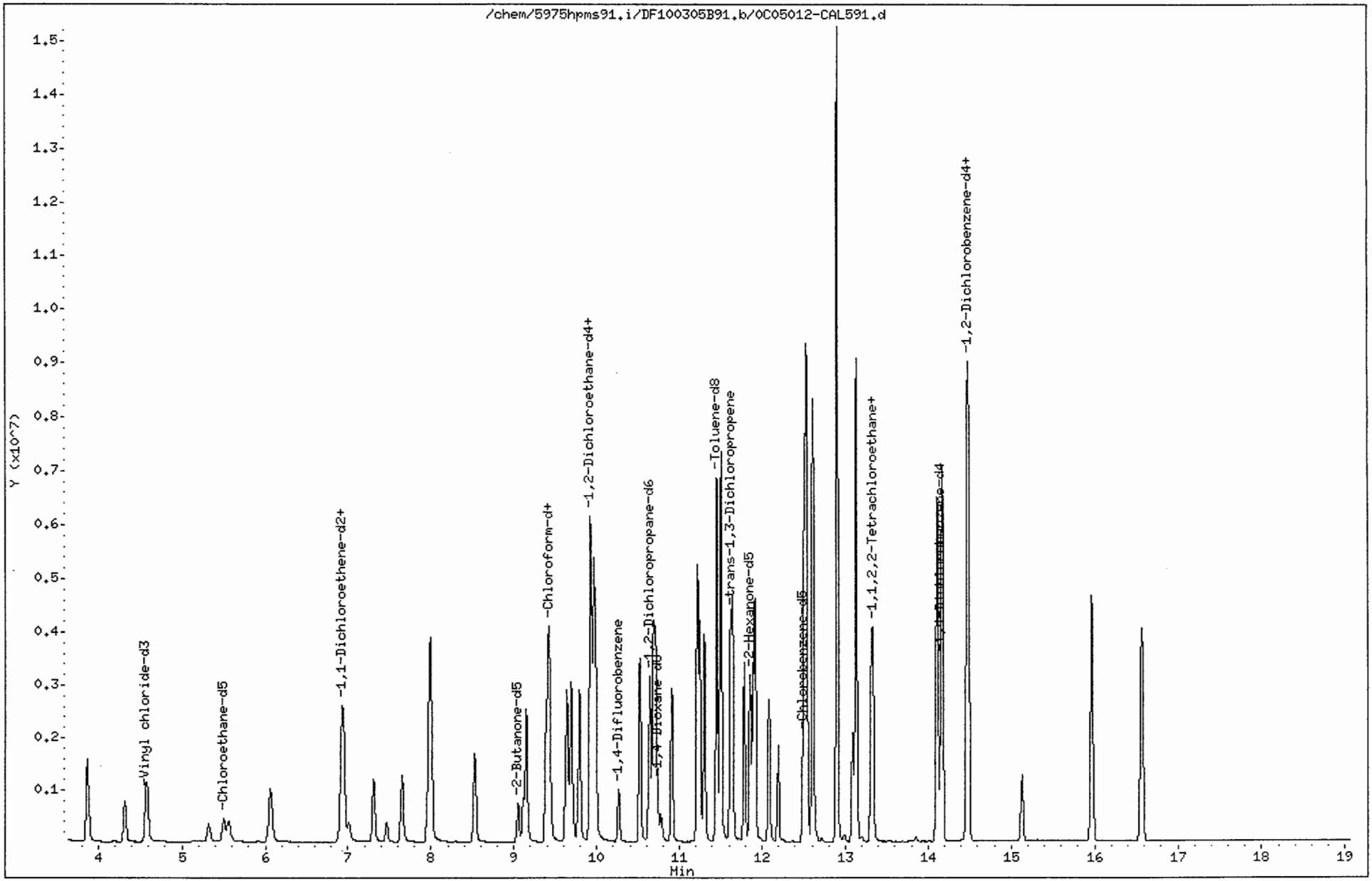
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17	1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	901442	500.000	478.991
18	Dichlorodifluoromethane	85	3.875	3.868	(0.377)	1172043	500.000	475.880
19	Chloromethane	50	4.320	4.319	(0.421)	565556	500.000	479.455
20	Vinyl chloride	62	4.588	4.582	(0.447)	574682	500.000	485.626
21	Bromomethane	94	5.350	5.319	(0.521)	218219	500.000	433.534
22	Chloroethane	64	5.582	5.563	(0.544)	289395	500.000	484.325
23	Trichlorofluoromethane	101	6.063	6.063	(0.591)	750957	500.000	477.696
24	1,1-Dichloroethene	96	6.959	6.953	(0.678)	318361	500.000	480.526
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.923	6.923	(0.675)	298188	500.000	461.260
26	Acetone	43	7.008	7.014	(0.683)	235228	1000.00	912.880
27	Carbon disulfide	76	7.313	7.307	(0.713)	1140484	500.000	460.427
28	Methyl acetate	43	7.465	7.465	(0.727)	275847	500.000	454.109
29	Methylene chloride	84	7.654	7.648	(0.746)	352535	500.000	477.493
30	trans-1,2-Dichloroethene	96	8.002	7.996	(0.780)	572333	500.000	495.348
31	Methyl tert-butyl ether	73	7.978	7.971	(0.777)	1783070	500.000	546.696
32	1,1-Dichloroethane	63	8.526	8.526	(0.831)	998184	500.000	496.532
33	cis-1,2-Dichloroethene	96	9.148	9.148	(0.891)	583437	500.000	523.810
34	2-Butanone	43	9.111	9.111	(0.888)	483563	1000.00	1091.67
35	Bromochloromethane	128	9.386	9.386	(0.914)	266841	500.000	493.207
36	Chloroform	83	9.435	9.428	(0.919)	1184175	500.000	489.805
37	1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	1149746	500.000	492.174
38	Cyclohexane	56	9.691	9.690	(0.776)	668909	500.000	579.237
39	Carbon tetrachloride	117	9.788	9.788	(0.784)	1005313	500.000	487.807
40	Benzene	78	9.965	9.965	(0.798)	2201416	500.000	505.031
41	1,2-Dichloroethane	62	9.983	9.983	(0.973)	1071978	500.000	502.191
42	1,4-Dioxane	88	10.776	10.776	(1.050)	146297	10000.0	11088.8
43	Trichloroethene	95	10.520	10.520	(0.842)	603522	500.000	516.886
44	Methylcyclohexane	83	10.684	10.684	(0.855)	788318	500.000	581.683
45	1,2-Dichloropropane	63	10.709	10.708	(0.857)	535267	500.000	505.066
46	Bromodichloromethane	83	10.904	10.904	(0.873)	958469	500.000	513.308
47	cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	1133890	500.000	534.791
48	4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	1153184	1000.00	1092.54
49	Toluene	91	11.501	11.501	(0.921)	2530332	500.000	509.612
50	trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	1163083	500.000	529.656
51	1,1,2-Trichloroethane	97	11.788	11.788	(0.944)	507842	500.000	500.550
52	Tetrachloroethene	164	11.916	11.916	(0.954)	444937	500.000	477.002
53	2-Hexanone	43	11.885	11.885	(0.952)	945449	1000.00	1096.61
54	Dibromochloromethane	129	12.080	12.086	(0.967)	711144	500.000	522.441
55	1,2-Dibromoethane	107	12.196	12.196	(0.977)	565892	500.000	520.238
56	Chlorobenzene	112	12.513	12.513	(1.002)	1680497	500.000	471.647
57	Ethylbenzene	91	12.538	12.537	(1.004)	3017194	500.000	505.991
58	m,p-Xylene	106	12.611	12.611	(1.010)	1167550	500.000	520.993
59	o-Xylene	106	12.897	12.897	(1.033)	1076910	500.000	495.347
60	Styrene	104	12.903	12.903	(1.033)	1898691	500.000	504.342
61	Bromoform	173	13.086	13.086	(0.925)	438749	500.000	541.015
62	Isopropylbenzene	105	13.129	13.129	(1.051)	2998750	500.000	533.440
63	1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	748567	500.000	502.535

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL491.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	14.110	14.110	(0.997)	1362375	500.000	511.236
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	1397756	500.000	480.358
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	1265463	500.000	484.069
67 1,2-Dibromo-3-chloropropane	75	15.129	15.128	(1.069)	202210	500.000	507.896
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	847694	500.000	527.748
69 1,2,3-Trichlorobenzene	180	16.567	16.567	(1.171)	818691	500.000	524.913

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL591.d
Date : 06-MAR-2010 00:07
Client ID: VSTD200XD
Sample Info: 0C05012-CAL5:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL591.d
Report Date: 09-Mar-2010 12:21

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL591.d
Lab Smp Id: 0C05012-CAL5 Client Smp ID: VSTD200XD
Inj Date : 06-MAR-2010 00:07
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 0C05012-CAL5:TD
Misc Info : VSTD200XD
Comment :
Method : /chem/5975hpms91.i/DF100305B91.b/SOM01.2_WATERv2.m
Meth Date : 09-Mar-2010 12:21 keng Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.263	10.263	(1.000)	702361	250.000	
* 2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	691833	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	404201	250.000	
$ 4 Vinyl chloride-d3	65	4.563	4.563	(0.445)	992519	1000.00	948.933
$ 5 Chloroethane-d5	69	5.502	5.502	(0.536)	691409	1000.00	951.616
$ 6 1,1-Dichloroethene-d2	63	6.929	6.929	(0.675)	1705301	1000.00	955.733
$ 7 2-Butanone-d5	46	9.050	9.050	(0.882)	919113	2000.00	2035.87(A)
$ 8 Chloroform-d	84	9.410	9.410	(0.917)	2487094	1000.00	944.060
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	1674197	1000.00	957.675
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	4083226	1000.00	969.569
$ 11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	1161188	1000.00	995.575
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	4338529	1000.00	1007.00(A)
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	2027468	1000.00	1042.93(A)
$ 14 2-Hexanone-d5	63	11.855	11.855	(0.949)	918773	2000.00	2271.43(A)
$ 15 1,4-Dioxane-d8	96	10.733	10.733	(1.046)	271490	20000.0	21281.5(A)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	1506407	1000.00	984.877

6
3-9,10

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL591.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	1625200	1000.00	905.648
18 Dichlorodifluoromethane	85	3.868	3.868	(0.377)	2105612	1000.00	897.404
19 Chloromethane	50	4.319	4.319	(0.421)	1010714	1000.00	899.046
20 Vinyl chloride	62	4.582	4.582	(0.446)	1041813	1000.00	919.194
21 Bromomethane	94	5.319	5.319	(0.518)	325697	1000.00	710.197(H)
22 Chloroethane	64	5.563	5.563	(0.542)	531580	1000.00	927.081
23 Trichlorofluoromethane	101	6.063	6.063	(0.591)	1395720	1000.00	925.551
24 1,1-Dichloroethene	96	6.953	6.953	(0.677)	599789	1000.00	940.334
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.923	6.923	(0.674)	599553	1000.00	958.911
26 Acetone	43	7.014	7.014	(0.683)	462655	2000.00	1867.89
27 Carbon disulfide	76	7.307	7.307	(0.712)	2114885	1000.00	896.431
28 Methyl acetate	43	7.465	7.465	(0.727)	548572	1000.00	938.456
29 Methylene chloride	84	7.648	7.648	(0.745)	688423	1000.00	963.088
30 trans-1,2-Dichloroethene	96	7.996	7.996	(0.779)	1009170	1000.00	913.269
31 Methyl tert-butyl ether	73	7.971	7.971	(0.777)	3416233	1000.00	1056.76(A)
32 1,1-Dichloroethane	63	8.526	8.526	(0.831)	1867736	1000.00	960.285
33 cis-1,2-Dichloroethene	96	9.148	9.148	(0.891)	1093757	1000.00	1003.98(A)
34 2-Butanone	43	9.111	9.111	(0.888)	953493	2000.00	2159.16(A)
35 Bromochloromethane	128	9.386	9.386	(0.914)	490946	1000.00	942.120
36 Chloroform	83	9.428	9.428	(0.919)	2205775	1000.00	946.280
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	2186404	1000.00	980.782
38 Cyclohexane	56	9.690	9.690	(0.776)	1378461	1000.00	1186.76(A)
39 Carbon tetrachloride	117	9.788	9.788	(0.784)	1964750	1000.00	995.399
40 Benzene	78	9.965	9.965	(0.798)	4021963	1000.00	969.589
41 1,2-Dichloroethane	62	9.983	9.983	(0.973)	2045603	1000.00	984.546
42 1,4-Dioxane	88	10.776	10.776	(1.050)	306214	20000.0	22894.4(A)
43 Trichloroethene	95	10.520	10.520	(0.842)	1154611	1000.00	1024.88(A)
44 Methylcyclohexane	83	10.684	10.684	(0.855)	1593911	1000.00	1173.40(A)
45 1,2-Dichloropropane	63	10.708	10.708	(0.857)	983638	1000.00	974.201
46 Bromodichloromethane	83	10.904	10.904	(0.873)	1830119	1000.00	1017.66(A)
47 cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	2137731	1000.00	1040.78(A)
48 4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	2304419	2000.00	2215.56(A)
49 Toluene	91	11.501	11.501	(0.921)	4745201	1000.00	997.352
50 trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	2202084	1000.00	1036.33(A)
51 1,1,2-Trichloroethane	97	11.788	11.788	(0.944)	962444	1000.00	991.441
52 Tetrachloroethene	164	11.916	11.916	(0.954)	848048	1000.00	958.101
53 2-Hexanone	43	11.885	11.885	(0.952)	1846275	2000.00	2182.41(A)
54 Dibromochloromethane	129	12.086	12.086	(0.968)	1370252	1000.00	1039.48(A)
55 1,2-Dibromoethane	107	12.196	12.196	(0.977)	1105972	1000.00	1047.72(A)
56 Chlorobenzene	112	12.513	12.513	(1.002)	3092677	1000.00	922.718
57 Ethylbenzene	91	12.537	12.537	(1.004)	5840119	1000.00	1017.07(A)
58 m,p-Xylene	106	12.611	12.611	(1.010)	2261176	1000.00	1041.40(A)
59 o-Xylene	106	12.897	12.897	(1.033)	2006287	1000.00	969.714
60 Styrene	104	12.903	12.903	(1.033)	3517848	1000.00	979.514
61 Bromoform	173	13.086	13.086	(0.925)	868859	1000.00	1076.65(A)
62 Isopropylbenzene	105	13.129	13.129	(1.051)	5927103	1000.00	1078.12(A)
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	1432807	1000.00	1002.52(A)

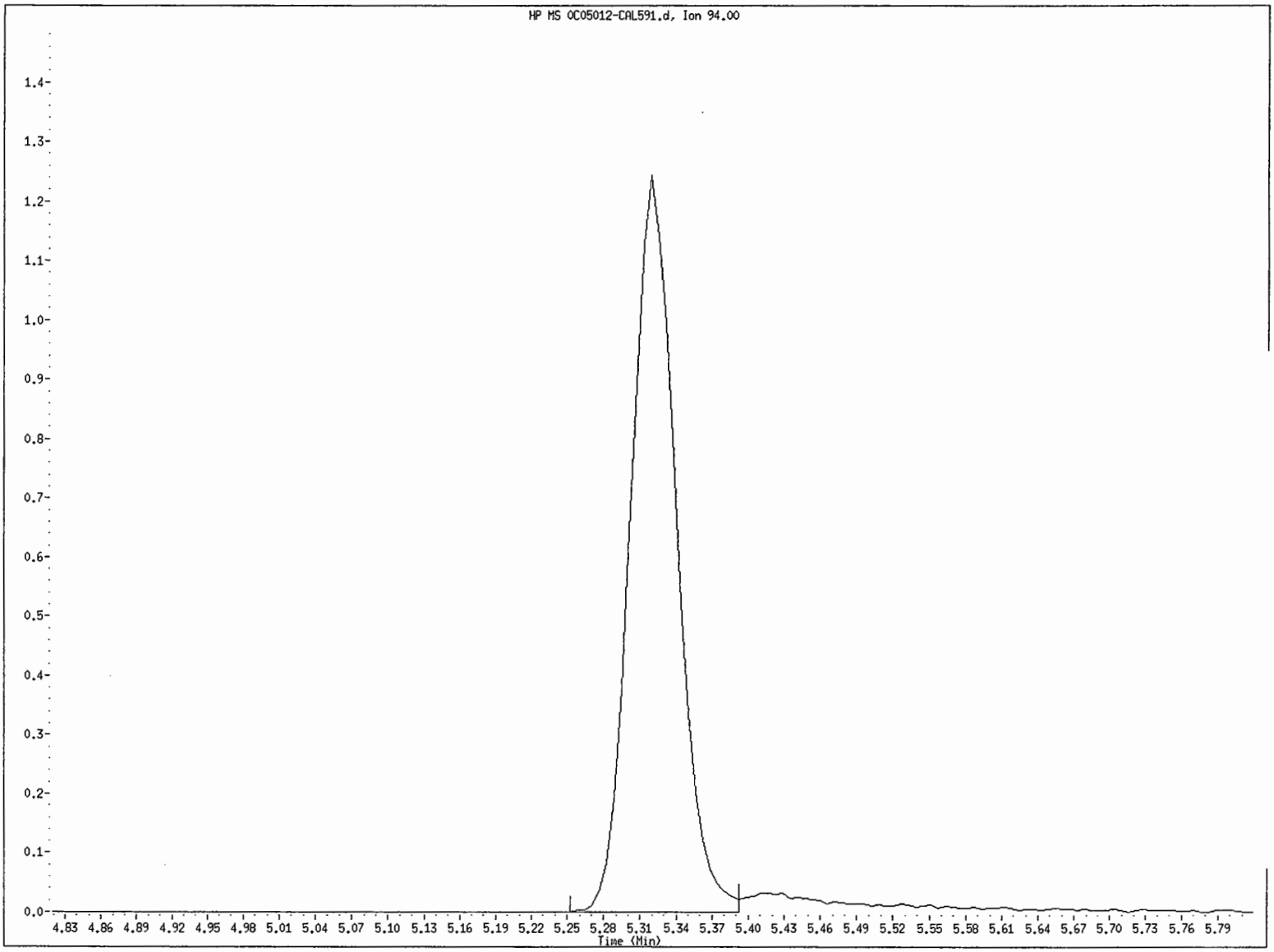
Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL591.d
Report Date: 09-Mar-2010 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	14.110	14.110	(0.997)	2653143	1000.00	1015.98(A)
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	2726522	1000.00	967.757
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	2408702	1000.00	954.704
67 1,2-Dibromo-3-chloropropane	75	15.128	15.128	(1.069)	431173	1000.00	1085.79(A)
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	1695297	1000.00	1064.05(A)
69 1,2,3-Trichlorobenzene	180	16.567	16.567	(1.171)	1622914	1000.00	1052.19(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Bromomethane CAS Number 74-83-9 Area = 325697 User selected hit



File name: /chem/5975hpms91.i/DF100305B91.b/0C05012-CAL591.d
Client ID: VSTD200XD
Instrument ID: 5975hpms91.i
Injection Date and Time: 06-MAR-2010 00:07
Retention Time: 5.32
Operator ID: TD

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS VOLATILE RUN LOG
COMPUCHEM LOGBOOK 23 BB 7 (5975hpms91)

DATE 3/5/10 INITIAL TIME OF TUNE 2256 SHIFT/S (A)____ (B) X (C)____
TIME TUNE EXPIRES 1056
METHOD: 624 8260B OLC03.2 OLM04.3 SOM01.2 (Circle one) or Other: H_2O
PREVENTIVE MAINTENANCE None

		FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		OC05012-TUN1	/	–	–	3/5/10	2256	BFBXD	–	2ul	–	B	ICD=SCD
2		CAL2	/	–	–	/ /	2312	VSTD010XD	–	5mL	–		
3		1	/	–	–	/ /	2339	005XD	–		–		
4		5	/	–	–	3/6/10	0007	200XD	–		–		
5		4	/	–	–	/ /	0034	100XD	–		–		
6		3	/	–	–	/ /	0102	050XD	–		–		
7		0030528-BLK1	/	–	–	/ /	0129	VBLKXD	VARIOUS	100ul	–		MeOH 49162
8	/	1003042-01	DW	–	MeOH C	/ /	0204	B8171	B8171	20ul	6.42		
9		02	/	–		/ /	0231	72			7.33		
10	/	03	DI	–		/ /	0259	73			7.46		Et∅ 1283ng
11	/	05	/	~~DW~~ ~~CS~~ JAO 3-8-10		/ /	0326	93		100ul	3.83		
12	/	06	DW	–		/ /	0354	94			2.17		
13	/	07	DW	–		/ /	0421	95		20ul	5.46		
14	/	08	DW	–		/ /	0449	96			5.72		
15	/	09	DI	–		/ /	0516	97			6.22		E∅ 2332ng
16	/	10	DI CS	–		/ /	0543	99			5.65		E∅ 1056ng
17	/	11	~~CS~~ DW	JAO 3-8-10		/ /	0611	A0		100ul	3.66		
18	/	12	DW	–		/ /	0638	A2			4.58		
19	/	13	DW	–		/ /	0706	A3			3.92		
20	/	14	DW	–		/ /	0733	A4			5.00		
21	/	15	DW	–		/ /	0801	A5			5.82		fails –
22	\	16	OT	–		/ /		A6			5.60		closing did not ru
23	\	17		–		/ /		A7			5.53		Archon stopped
24	\	18		–		/ /		A8			5.27		

*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.: 67202
Internal Standard Lot No.: 67209

Calibration Group Code / Lot No.: S0196
Surrogate Lot No.: ~~67220~~ 67220 B3-5-10

REVIEWED BY: Joan Ockerlander

Date 3-8-10

Supervisor/Manager Review: _____ pages ____ to ____ Date _____

05/05/09:JR

b. Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3, VOA- SIM)

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 - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/23/2010 Time: 1431

Lab File ID: 0C23004-CCV191.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HT Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.835	0.667	0.010	-20.1	40.0
Chloromethane	0.400	0.474	0.010	18.4	40.0
Vinyl chloride	0.403	0.381	0.100	-5.4	25.0
Bromomethane	0.163	0.130	0.100	-20.7	25.0
Chloroethane	0.204	0.203	0.010	-0.6	40.0
Trichlorofluoromethane	0.537	0.464	0.010	-13.5	40.0
1,1-Dichloroethene	0.227	0.202	0.100	-11.0	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.223	0.186	0.010	-16.5	40.0
Acetone	0.088	0.092	0.010	4.8	40.0
Carbon disulfide	0.840	0.781	0.010	-7.1	40.0
Methyl acetate	0.208	0.207	0.010	-0.3	40.0
Methylene chloride	0.254	0.255	0.010	0.3	40.0
trans-1,2-Dichloroethene	0.393	0.372	0.010	-5.3	40.0
Methyl tert-butyl ether	1.151	1.013	0.010	-12.0	40.0
1,1-Dichloroethane	0.692	0.675	0.200	-2.5	25.0
cis-1,2-Dichloroethene	0.388	0.397	0.010	2.3	40.0
2-Butanone	0.157	0.167	0.010	6.3	40.0
Bromochloromethane	0.185	0.178	0.050	-4.1	25.0
Chloroform	0.830	0.813	0.200	-2.0	25.0
1,1,1-Trichloroethane	0.806	0.679	0.100	-15.7	25.0
Cyclohexane	0.420	0.398	0.010	-5.2	40.0
Carbon tetrachloride	0.713	0.577	0.100	-19.0	25.0
Benzene	1.499	1.503	0.400	0.2	25.0
1,2-Dichloroethane	0.740	0.741	0.100	0.2	25.0
1,4-Dioxane	0.005	0.005	0.005	-0.7	50.0
Trichloroethene	0.407	0.349	0.300	-14.2	25.0
Methylcyclohexane	0.491	0.454	0.010	-7.5	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms9l Calibration Date: 03/23/2010 Time: 1431

Lab File ID: 0C23004-CCV191.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HT Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.365	0.376	0.010	3.0	40.0
Bromodichloromethane	0.650	0.585	0.200	-10.0	25.0
cis-1,3-Dichloropropene	0.742	0.670	0.200	-9.8	25.0
4-Methyl-2-pentanone	0.376	0.389	0.010	3.4	40.0
Toluene	1.719	1.673	0.400	-2.7	25.0
trans-1,3-Dichloropropene	0.768	0.668	0.100	-13.0	25.0
1,1,2-Trichloroethane	0.351	0.340	0.100	-3.2	25.0
Tetrachloroethene	0.320	0.278	0.100	-13.1	25.0
2-Hexanone	0.306	0.314	0.010	2.8	40.0
Dibromochloromethane	0.476	0.416	0.100	-12.7	25.0
1,2-Dibromoethane	0.381	0.346	0.010	-9.4	40.0
Chlorobenzene	1.211	1.129	0.500	-6.8	25.0
Ethylbenzene	2.075	2.021	0.100	-2.6	25.0
o-Xylene	0.748	0.744	0.300	-0.5	25.0
m,p-Xylene	0.785	0.771	0.300	-1.8	25.0
Styrene	1.298	1.284	0.300	-1.1	25.0
Bromoform	0.499	0.445	0.050	-10.8	25.0
Isopropylbenzene	1.987	1.955	0.010	-1.6	40.0
1,1,2,2-Tetrachloroethane	0.516	0.498	0.300	-3.6	25.0
1,3-Dichlorobenzene	1.615	1.530	0.600	-5.3	25.0
1,4-Dichlorobenzene	1.743	1.648	0.500	-5.5	25.0
1,2-Dichlorobenzene	1.560	1.562	0.400	0.1	25.0
1,2-Dibromo-3-chloropropane	0.246	0.210	0.010	-14.5	40.0
1,2,4-Trichlorobenzene	0.985	0.835	0.200	-15.3	25.0
1,2,3-Trichlorobenzene	0.954	0.863	0.200	-9.5	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/23/2010 Time: 1431

Lab File ID: 0C23004-CCV191.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HT Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.372	0.376	0.010	0.9	25.0
Chloroethane-d5	0.259	0.267	0.010	3.2	40.0
1,1-Dichloroethene-d2	0.635	0.630	0.010	-0.8	25.0
2-Butanone-d5	0.161	0.133	0.010	-16.9	40.0
Chloroform-d	0.938	0.970	0.010	3.5	25.0
1,2-Dichloroethane-d4	0.622	0.636	0.010	2.1	25.0
Benzene-d6	1.522	1.592	0.010	4.6	25.0
1,2-Dichloropropane-d6	0.421	0.452	0.010	7.2	40.0
Toluene-d8	1.557	1.548	0.010	-0.5	25.0
trans-1,3-Dichloropropene-d4	0.702	0.622	0.010	-11.5	25.0
2-Hexanone-d5	0.146	0.141	0.010	-3.4	40.0
1,4-Dioxane-d8	0.005	0.004	0.005	-2.3	50.0
1,1,2,2-Tetrachloroethane-d2	0.553	0.544	0.010	-1.7	25.0
1,2-Dichlorobenzene-d4	1.110	1.047	0.010	-5.7	25.0

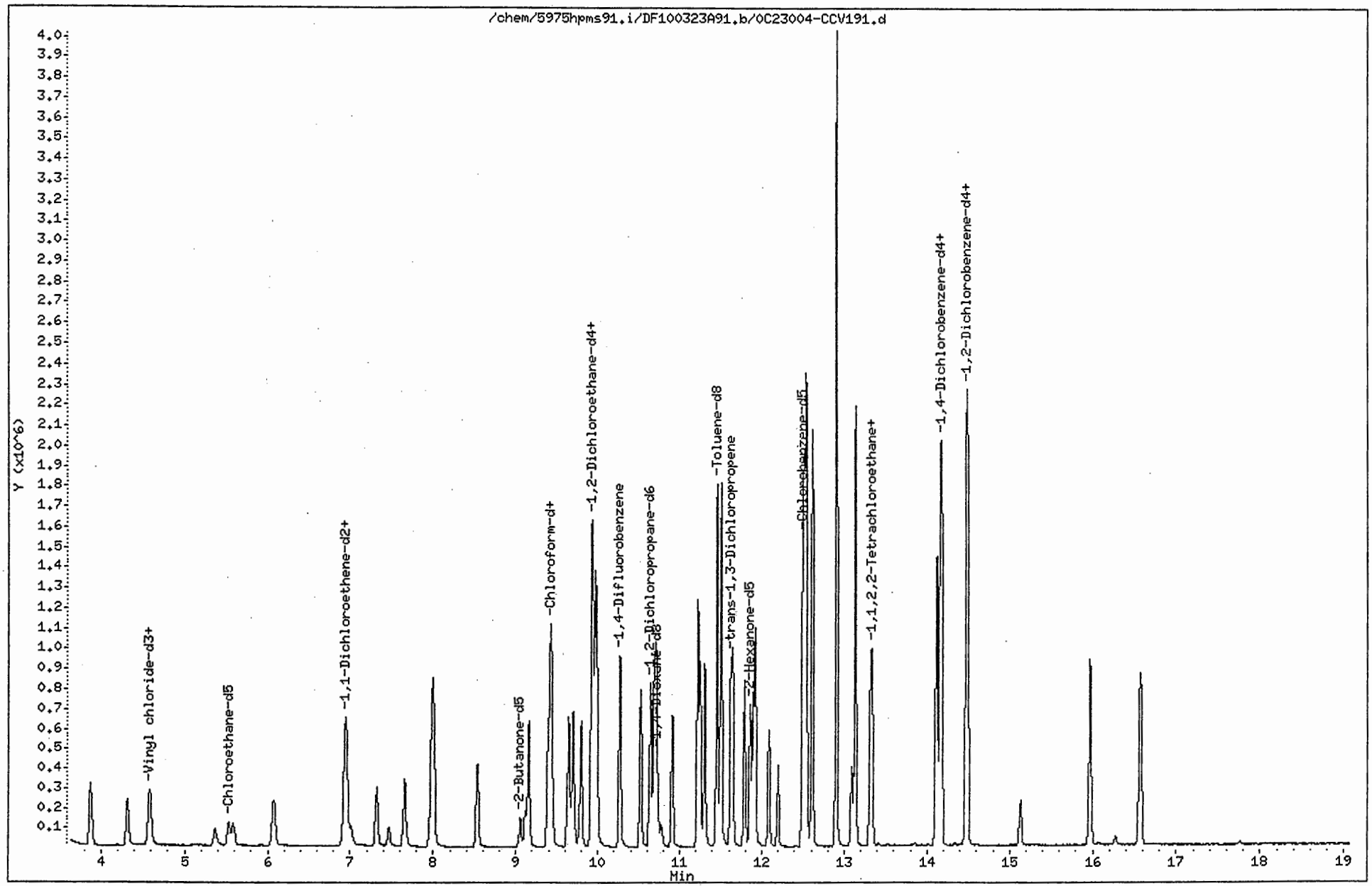
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23004-CCV191.d
Date : 23-MAR-2010 14:31
Client ID: VSTD050
Sample Info: 0C23004-CCV1:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32

B8726
134

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF-39482
SIGNATURE _____ DATE 3/24/10



Data File: /chem/5975hpms91.i/DF100323A91.b/0C23004-CCV191.d
Report Date: 24-Mar-2010 18:52

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100323A91.b/0C23004-CCV191.d
Lab Smp Id: OC23004-CCV1 Client Smp ID: VSTD050
Inj Date : 23-MAR-2010 14:31
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : OC23004-CCV1:JAO
Misc Info : VSTD050HT
Comment :
Method : /chem/5975hpms91.i/DF100323A91.b/SOM01.2_WATERv2.m
Meth Date : 24-Mar-2010 18:52 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	AMOUNTS ON-COL (ng)
*	1 1,4-Difluorobenzene	114	10.270	10.270	(1.000)	653342	250.000	
*	2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	681348	250.000	
*	3 1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	369923	250.000	
$	4 Vinyl chloride-d3	65	4.570	4.570	(0.445)	245514	250.000	252.344
$	5 Chloroethane-d5	69	5.527	5.527	(0.538)	174394	250.000	258.035
$	6 1,1-Dichloroethene-d2	63	6.941	6.941	(0.676)	411758	250.000	248.083
$	7 2-Butanone-d5	46	9.050	9.050	(0.881)	174439	500.000	415.380
$	8 Chloroform-d	84	9.416	9.416	(0.917)	633870	250.000	258.659
$	9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	415261	250.000	255.360
$	10 Benzene-d6	84	9.928	9.928	(0.795)	1084995	250.000	261.599
$	11 1,2-Dichloropropane-d6	67	10.636	10.636	(0.852)	307868	250.000	268.021
$	12 Toluene-d8	98	11.452	11.452	(0.917)	1055027	250.000	248.646
$	13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	423557	250.000	221.230
$	14 2-Hexanone-d5	63	11.855	11.855	(0.949)	192373	500.000	482.911
$	15 1,4-Dioxane-d8	96	10.727	10.727	(1.045)	57946	5000.00	4883.06

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23004-CCV191.d
Report Date: 24-Mar-2010 18:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	370368	250.000	245.870
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	387130	250.000	235.719
18 Dichlorodifluoromethane	85	3.875	3.875	(0.377)	435873	250.000	199.705
19 Chloromethane	50	4.314	4.314	(0.420)	309537	250.000	295.996
20 Vinyl chloride	62	4.588	4.588	(0.447)	249228	250.000	236.393
21 Bromomethane	94	5.362	5.362	(0.522)	84616	250.000	198.352
22 Chloroethane	64	5.582	5.582	(0.543)	132569	250.000	248.548
23 Trichlorofluoromethane	101	6.075	6.075	(0.592)	303345	250.000	216.251
24 1,1-Dichloroethene	96	6.959	6.959	(0.678)	132008	250.000	222.487
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.929	6.929	(0.675)	121467	250.000	208.847
26 Acetone	43	7.008	7.008	(0.682)	120759	500.000	524.124
27 Carbon disulfide	76	7.319	7.319	(0.713)	509938	250.000	232.363
28 Methyl acetate	43	7.465	7.465	(0.727)	135548	250.000	249.283
29 Methylene chloride	84	7.654	7.654	(0.745)	166772	250.000	250.815
30 trans-1,2-Dichloroethene	96	8.002	8.002	(0.779)	243244	250.000	236.645
31 Methyl tert-butyl ether	73	7.978	7.978	(0.777)	661840	250.000	220.090
32 1,1-Dichloroethane	63	8.532	8.532	(0.831)	440977	250.000	243.736
33 cis-1,2-Dichloroethene	96	9.154	9.154	(0.891)	259299	250.000	255.873
34 2-Butanone	43	9.111	9.111	(0.887)	218365	500.000	531.582
35 Bromochloromethane	128	9.386	9.386	(0.914)	116173	250.000	239.661
36 Chloroform	83	9.435	9.435	(0.919)	530987	250.000	244.885
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	462538	250.000	210.679
38 Cyclohexane	56	9.691	9.691	(0.776)	271095	250.000	236.985
39 Carbon tetrachloride	117	9.794	9.794	(0.784)	393446	250.000	202.399
40 Benzene	78	9.965	9.965	(0.798)	1023746	250.000	250.596
41 1,2-Dichloroethane	62	9.989	9.989	(0.973)	484123	250.000	250.490
42 1,4-Dioxane	88	10.776	10.776	(1.049)	61760	5000.00	4963.99
43 Trichloroethene	95	10.520	10.520	(0.842)	238113	250.000	214.611
44 Methylcyclohexane	83	10.684	10.684	(0.855)	309271	250.000	231.182
45 1,2-Dichloropropane	63	10.715	10.715	(0.858)	256177	250.000	257.624
46 Bromodichloromethane	83	10.904	10.904	(0.873)	398626	250.000	225.072
47 cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	456301	250.000	225.575
48 4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	529776	500.000	517.186
49 Toluene	91	11.501	11.501	(0.921)	1139644	250.000	243.218
50 trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	455334	250.000	217.584
51 1,1,2-Trichloroethane	97	11.788	11.788	(0.944)	231333	250.000	241.970
52 Tetrachloroethene	164	11.916	11.916	(0.954)	189388	250.000	217.258
53 2-Hexanone	43	11.885	11.885	(0.952)	428346	500.000	514.122
54 Dibromochloromethane	129	12.086	12.086	(0.968)	283483	250.000	218.361
55 1,2-Dibromoethane	107	12.196	12.196	(0.977)	235526	250.000	226.554
56 Chlorobenzene	112	12.513	12.513	(1.002)	769071	250.000	232.988
57 Ethylbenzene	91	12.538	12.538	(1.004)	1377269	250.000	243.544
58 m,p-Xylene	106	12.611	12.611	(1.010)	525136	250.000	245.576
59 o-Xylene	106	12.897	12.897	(1.033)	506976	250.000	248.811
60 Styrene	104	12.903	12.903	(1.033)	874591	250.000	247.270
61 Bromoform	173	13.086	13.086	(0.925)	164779	250.000	223.108
62 Isopropylbenzene	105	13.129	13.129	(1.051)	1331825	250.000	245.982

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23004-CCV191.d
Report Date: 24-Mar-2010 18:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	339123	250.000	240.933
64 1,3-Dichlorobenzene	146	14.110	14.110	(0.997)	565951	250.000	236.804
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	609461	250.000	236.368
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	577850	250.000	250.257
67 1,2-Dibromo-3-chloropropane	75	15.129	15.129	(1.069)	77690	250.000	213.769
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	308757	250.000	211.747
69 1,2,3-Trichlorobenzene	180	16.567	16.567	(1.171)	319272	250.000	226.176

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS VOLATILE RUN LOG
COMPUCHEM LOGBOOK 23 BB 7 (5975hpms91)

DATE 3/23/10 INITIAL TIME OF TUNE 1314 SHIFT/S (A) ✓ (B) ____ (C) ____
TIME TUNE EXPIRES 0114
METHOD: 624 8260B OLC03.2 OLM04.3 SOM01.2 (Circle one) or Other: water
PREVENTIVE MAINTENANCE none

	LCD	FILE NAME	SCD	pH	Vial	DATE	TIME	Client ID	SDG#	INJ VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		OC23004-TUN1		–	–	3/23/10	1314	BFBHT	–	2uL	–	JAO	LCD=SCD
2		↓ –CCV1		–	–	1 / 1	1431	VSTD050HT	–	5mL	–		0032445-BLK (Low H2O)
3		0032312-BLK1		–	–	1 / 1	1540	VBLKHT	VARIOUS	100uL/5mL	–		MeOH Lot # 49162
4		1003135-11R2		≠1	B	1 / 1	1636	SR-9	1003135	5ml	–		
5		0032312-MS1		1	C	1 / 1	1704	DW-36 MS		↓	–		
6		↓ –MSD1		1	C	1 / 1	1731	DW-36MSD			–		
7		1003135-04D2		1	C	1 / 1	1758	SR-7		1mL	5		
8		–07D2		1	B	1 / 1	1825	DW-14		350uL	14.29		
9		–08D2		1	C	1 / 1	1853	DW-119		350uL	14.29		
10		↓ –10D3		1	C	1 / 1	1920	SR-16	↓	125uL	40		
11		1003160-01		–	C	1 / 1	2007	B81Z6	B81Z6 1003160	100uL	3.21		
12		–02		–	C	1 / 1	2034	B81Z7	JAO 3-23-10	100uL	2.17		
13		–03		–	C	1 / 1	2102	B81Z8		100uL	4.73		
14		–04		–	C	1 / 1	2129	B81Z9		5uL	5.06		
15		–05		–	C	1 / 1	2156	B8200		25uL	6.07		
16		–06		–	C	1 / 1	2223	B8201		100uL	5.57		
17		–07	DW	–	C	1 / 1	2250	B8202		100uL	5.63		Low level
18		–09		–	C	1 / 1	2318	B8206		2.5ml	5.87	JB	
19		↓ –10		–	C	1 / ↓	2345	B8207		1.5ml	5.85		
20		1003135-06		1	A	3/24/10	0013	VHBLKXZ	1003135	5mL	–		
21		OC23004-CCV2		–	–	1 / 1	0040	VSTD050HU	–	↓	–		Not used
22		CCV2R		–	–	1 / 1	0107	↓	–		–		
23						1 / 1							JB 3-24-10
24						1 / 1							

*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.: 67202
Internal Standard Lot No.: 67239

Calibration Group Code / Lot No.: SO197
Surrogate Lot No.: 67242

REVIEWED BY: JB

Date 3-24-10

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 0107

Lab File ID: 0C23004-CCV2R91.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HU Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.835	0.632	0.010	-24.3	40.0
Chloromethane	0.400	0.444	0.010	11.0	40.0
Vinyl chloride	0.403	0.364	0.100	-9.7	25.0
Bromomethane	0.163	0.144	0.100	-11.7	25.0
Chloroethane	0.204	0.191	0.010	-6.5	40.0
Trichlorofluoromethane	0.537	0.415	0.010	-22.7	40.0
1,1-Dichloroethene	0.227	0.188	0.100	-17.3	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.223	0.172	0.010	-22.8	40.0
Acetone	0.088	0.086	0.010	-2.9	40.0
Carbon disulfide	0.840	0.727	0.010	-13.5	40.0
Methyl acetate	0.208	0.196	0.010	-5.9	40.0
Methylene chloride	0.254	0.241	0.010	-5.2	40.0
trans-1,2-Dichloroethene	0.393	0.375	0.010	-4.6	40.0
Methyl tert-butyl ether	1.151	1.085	0.010	-5.7	40.0
1,1-Dichloroethane	0.692	0.688	0.200	-0.6	25.0
cis-1,2-Dichloroethene	0.388	0.390	0.010	0.5	40.0
2-Butanone	0.157	0.171	0.010	9.0	40.0
Bromochloromethane	0.185	0.184	0.050	-1.1	25.0
Chloroform	0.830	0.807	0.200	-2.7	25.0
1,1,1-Trichloroethane	0.806	0.673	0.100	-16.4	25.0
Cyclohexane	0.420	0.400	0.010	-4.6	40.0
Carbon tetrachloride	0.713	0.567	0.100	-20.5	25.0
Benzene	1.499	1.518	0.400	1.2	25.0
1,2-Dichloroethane	0.740	0.723	0.100	-2.2	25.0
1,4-Dioxane	0.005	0.005	0.005	1.0	50.0
Trichloroethene	0.407	0.359	0.300	-11.8	25.0
Methylcyclohexane	0.491	0.451	0.010	-8.1	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 0107

Lab File ID: 0C23004-CCV2R91.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HU Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.365	0.378	0.010	3.7	40.0
Bromodichloromethane	0.650	0.592	0.200	-8.9	25.0
cis-1,3-Dichloropropene	0.742	0.654	0.200	-11.9	25.0
4-Methyl-2-pentanone	0.376	0.406	0.010	7.9	40.0
Toluene	1.719	1.648	0.400	-4.1	25.0
trans-1,3-Dichloropropene	0.768	0.626	0.100	-18.4	25.0
1,1,2-Trichloroethane	0.351	0.339	0.100	-3.4	25.0
Tetrachloroethene	0.320	0.272	0.100	-14.8	25.0
2-Hexanone	0.306	0.341	0.010	11.4	40.0
Dibromochloromethane	0.476	0.419	0.100	-12.0	25.0
1,2-Dibromoethane	0.381	0.356	0.010	-6.8	40.0
Chlorobenzene	1.211	1.112	0.500	-8.2	25.0
Ethylbenzene	2.075	1.968	0.100	-5.1	25.0
o-Xylene	0.748	0.725	0.300	-3.0	25.0
m,p-Xylene	0.785	0.754	0.300	-3.9	25.0
Styrene	1.298	1.223	0.300	-5.7	25.0
Bromoform	0.499	0.443	0.050	-11.2	25.0
Isopropylbenzene	1.987	1.908	0.010	-4.0	40.0
1,1,2,2-Tetrachloroethane	0.516	0.497	0.300	-3.7	25.0
1,3-Dichlorobenzene	1.615	1.507	0.600	-6.7	25.0
1,4-Dichlorobenzene	1.743	1.607	0.500	-7.8	25.0
1,2-Dichlorobenzene	1.560	1.519	0.400	-2.7	25.0
1,2-Dibromo-3-chloropropane	0.246	0.216	0.010	-12.1	40.0
1,2,4-Trichlorobenzene	0.985	0.828	0.200	-16.0	25.0
1,2,3-Trichlorobenzene	0.954	0.881	0.200	-7.7	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 0107

Lab File ID: 0C23004-CCV2R91.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HU Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.372	0.349	0.010	-6.1	25.0
Chloroethane-d5	0.259	0.249	0.010	-3.8	40.0
1,1-Dichloroethene-d2	0.635	0.588	0.010	-7.5	25.0
2-Butanone-d5	0.161	0.146	0.010	-8.8	40.0
Chloroform-d	0.938	0.958	0.010	2.1	25.0
1,2-Dichloroethane-d4	0.622	0.636	0.010	2.2	25.0
Benzene-d6	1.522	1.616	0.010	6.2	25.0
1,2-Dichloropropane-d6	0.421	0.464	0.010	10.0	40.0
Toluene-d8	1.557	1.552	0.010	-0.3	25.0
trans-1,3-Dichloropropene-d4	0.702	0.588	0.010	-16.3	25.0
2-Hexanone-d5	0.146	0.147	0.010	0.5	40.0
1,4-Dioxane-d8	0.005	0.005	0.005	2.1	50.0
1,1,2,2-Tetrachloroethane-d2	0.553	0.548	0.010	-0.9	25.0
1,2-Dichlorobenzene-d4	1.110	1.047	0.010	-5.7	25.0

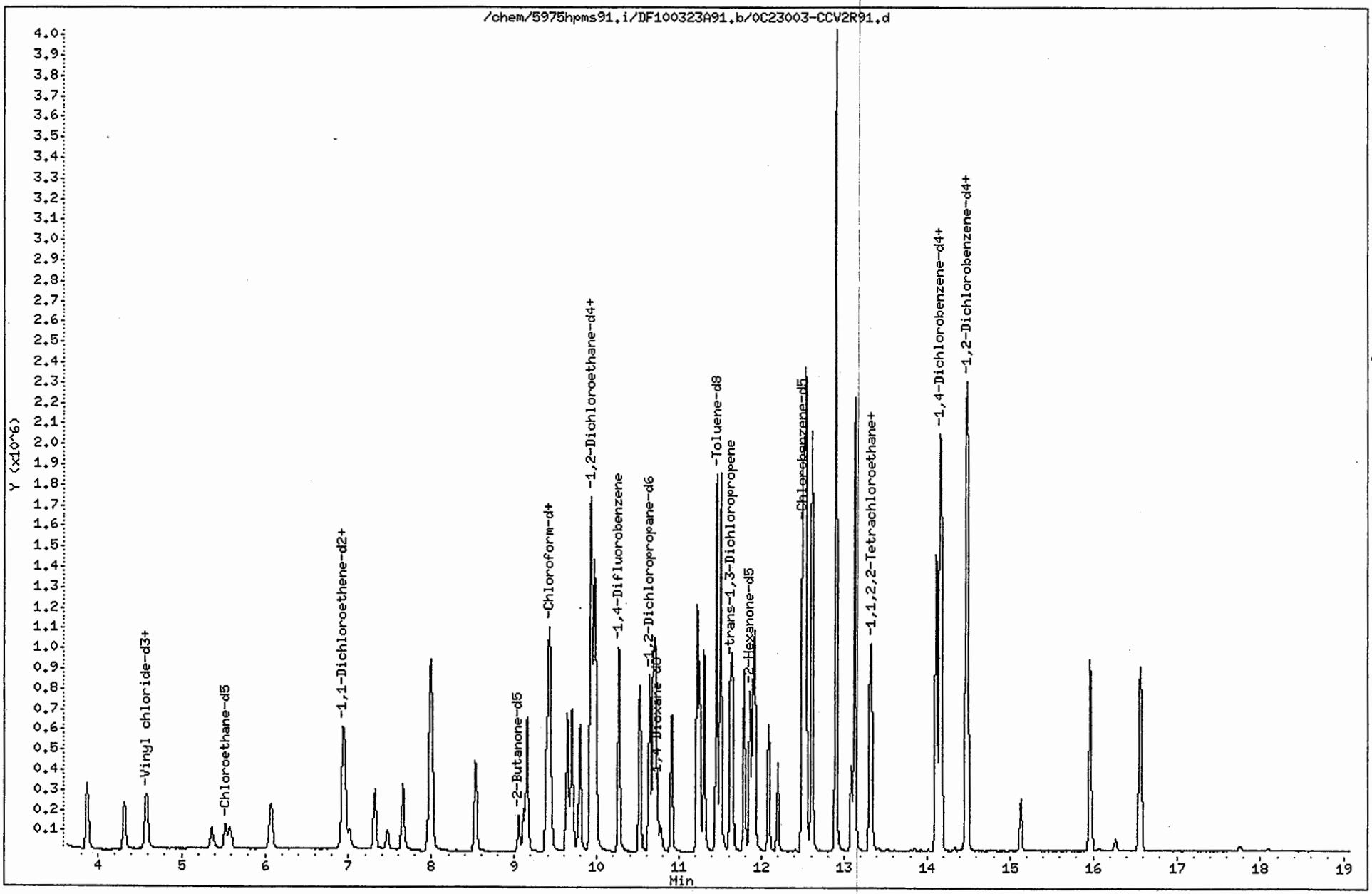
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23003-CCV2R91.d
Date : 24-MAR-2010 01:07
Client ID: VSTD050HU
Sample Info: 0C23003-CCV2:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32

B81E6 142

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- 39482
SIGNATURE _____ DATE 3/24/10



Data File: /chem/5975hpms91.i/DF100323A91.b/0C23003-CCV2R91.d
Report Date: 24-Mar-2010 18:52

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100323A91.b/0C23003-CCV2R91.d
Lab Smp Id: 0C23003-CCV2 Client Smp ID: VSTD050HU
Inj Date : 24-MAR-2010 01:07
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 0C23003-CCV2:TD
Misc Info : VSTD050HU
Comment :
Method : /chem/5975hpms91.i/DF100323A91.b/SOM01.2_WATERv2.m
Meth Date : 24-Mar-2010 18:52 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 1,4-Difluorobenzene	114	10.270	10.270	(1.000)	690188	250.000	
*	2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	714842	250.000	
*	3 1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	384935	250.000	
$	4 Vinyl chloride-d3	65	4.569	4.569	(0.445)	241170	250.000	234.646
$	5 Chloroethane-d5	69	5.527	5.527	(0.538)	171651	250.000	240.417
$	6 1,1-Dichloroethene-d2	63	6.935	6.935	(0.675)	405652	250.000	231.357
$	7 2-Butanone-d5	46	9.050	9.050	(0.881)	202197	500.000	455.774
$	8 Chloroform-d	84	9.416	9.416	(0.917)	660943	250.000	255.308
$	9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	438944	250.000	255.513
$	10 Benzene-d6	84	9.928	9.928	(0.795)	1155121	250.000	265.457
$	11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	331472	250.000	275.049
$	12 Toluene-d8	98	11.452	11.452	(0.917)	1109300	250.000	249.187
$	13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	420483	250.000	209.334
	14 2-Hexanone-d5	63	11.855	11.855	(0.949)	210098	500.000	502.694
	15 1,4-Dioxane-d8	96	10.733	10.733	(1.045)	64009	5000.00	5106.03

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23003-CCV2R91.d
Report Date: 24-Mar-2010 18:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	391530	250.000	247.740
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	403074	250.000	235.856
18 Dichlorodifluoromethane	85	3.874	3.874	(0.377)	436242	250.000	189.204
19 Chloromethane	50	4.320	4.320	(0.421)	306619	250.000	277.553
20 Vinyl chloride	62	4.582	4.582	(0.446)	251569	250.000	225.875
21 Bromomethane	94	5.362	5.362	(0.522)	99473	250.000	220.731
22 Chloroethane	64	5.581	5.581	(0.543)	131714	250.000	233.762
23 Trichlorofluoromethane	101	6.069	6.069	(0.591)	286530	250.000	193.359
24 1,1-Dichloroethene	96	6.959	6.959	(0.678)	129535	250.000	206.664
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.923	6.923	(0.674)	118655	250.000	193.121
26 Acetone	43	7.014	7.014	(0.683)	118211	500.000	485.675
27 Carbon disulfide	76	7.313	7.313	(0.712)	501430	250.000	216.288
28 Methyl acetate	43	7.465	7.465	(0.727)	135198	250.000	235.366
29 Methylene chloride	84	7.654	7.654	(0.745)	166432	250.000	236.941
30 trans-1,2-Dichloroethene	96	8.002	8.002	(0.779)	258940	250.000	238.466
31 Methyl tert-butyl ether	73	7.977	7.977	(0.777)	748637	250.000	235.663
32 1,1-Dichloroethane	63	8.526	8.526	(0.830)	474974	250.000	248.512
33 cis-1,2-Dichloroethene	96	9.154	9.154	(0.891)	269094	250.000	251.363
34 2-Butanone	43	9.111	9.111	(0.887)	236599	500.000	545.221
35 Bromochloromethane	128	9.386	9.386	(0.914)	126654	250.000	247.334
36 Chloroform	83	9.434	9.434	(0.919)	557221	250.000	243.264
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	481414	250.000	209.003
38 Cyclohexane	56	9.697	9.697	(0.776)	286184	250.000	238.454
39 Carbon tetrachloride	117	9.794	9.794	(0.784)	405192	250.000	198.674
40 Benzene	78	9.965	9.965	(0.798)	1084783	250.000	253.095
41 1,2-Dichloroethane	62	9.989	9.989	(0.973)	499175	250.000	244.490
42 1,4-Dioxane	88	10.776	10.776	(1.049)	66380	5000.00	5050.50
43 Trichloroethene	95	10.520	10.520	(0.842)	256573	250.000	220.414
44 Methylcyclohexane	83	10.684	10.684	(0.855)	322521	250.000	229.790
45 1,2-Dichloropropane	63	10.715	10.715	(0.858)	270364	250.000	259.151
46 Bromodichloromethane	83	10.910	10.910	(0.874)	423421	250.000	227.870
47 cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	467329	250.000	220.202
48 4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	579933	500.000	539.624
49 Toluene	91	11.501	11.501	(0.921)	1178091	250.000	239.643
50 trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	447651	250.000	203.890
51 1,1,2-Trichloroethane	97	11.788	11.788	(0.944)	242161	250.000	241.428
52 Tetrachloroethene	164	11.916	11.916	(0.954)	194748	250.000	212.939
53 2-Hexanone	43	11.891	11.891	(0.952)	486825	500.000	556.934
54 Dibromochloromethane	129	12.086	12.086	(0.968)	299522	250.000	219.905
55 1,2-Dibromoethane	107	12.196	12.196	(0.977)	254157	250.000	233.020
56 Chlorobenzene	112	12.513	12.513	(1.002)	795098	250.000	229.587
57 Ethylbenzene	91	12.537	12.537	(1.004)	1406888	250.000	237.125
58 m,p-Xylene	106	12.611	12.611	(1.010)	539259	250.000	240.365
59 o-Xylene	106	12.897	12.897	(1.033)	518393	250.000	242.494
60 Styrene	104	12.903	12.903	(1.033)	874434	250.000	235.641
61 Bromoform	173	13.086	13.086	(0.925)	170528	250.000	221.887
62 Isopropylbenzene	105	13.129	13.129	(1.051)	1363683	250.000	240.065

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23003-CCV2R91.d
Report Date: 24-Mar-2010 18:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	355365	250.000	240.642
64 1,3-Dichlorobenzene	146	14.110	14.110	(0.997)	580272	250.000	233.327
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	618626	250.000	230.566
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	584558	250.000	243.289
67 1,2-Dibromo-3-chloropropane	75	15.128	15.128	(1.069)	83068	250.000	219.653
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	318552	250.000	209.945
69 1,2,3-Trichlorobenzene	180	16.561	16.561	(1.170)	338937	250.000	230.743

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS VOLATILE RUN LOG
COMPUCHEM LOGBOOK 23 BB 7 (5975hpms91)

DATE 3/24/10 INITIAL TIME OF TUNE 0107 SHIFT/S (A)____ (B) X (C)____
TIME TUNE EXPIRES 1307
METHOD: 624 8260B OLC03.2 OLM04.3 SOM01.2 (Circle one) or Other: H_2O
PREVENTIVE MAINTENANCE None

		FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		OC23004-CCV2R	/	–	–	3/24/10	0107	VSTD050HU	—	5mL	—	B	LCD=SCD
2		0032330-BLK1	/	–	–	/ /	0135	VBLKHU	VARIOUS	100/5mL	–		
3		1003160-08	DW	–	C	/ /	0206	B8203	B8176	100ul	6.48		Low level
4		11	/	–		/ /	0233	08		1.5ul	5.80		
5		12	/	–		/ /	0301	09		100ul	4.76		
6		13	/	–		/ /	0328	10		50ul	5.15		
7		14	/	–		/ /	0355	11		50ul	5.19		
8		15	/	–		/ /	0423	12		3 ul	4.03		
9		16	/	–		/ /	0450	13		1.5ul	5.65		
10		17	/	–		/ /	0518	14		100ul	6.08		
11	/	18	DW	–		/ /	0545	17		100ul	5.81		Run Low Level
12	/	19	DW	–		/ /	0613	18		100ul	5.56		
13	/	20	DW	–		/ /	0640	19		100ul	6.00		
14		1003161-03	/	–		/ /	0708	B8223	B8220	5ul	5.39		
15		04	/	–		/ /	0735	24		2.5ul	5.98		
16		1003162-01	/	–		/ /	0803	B8205	B205	100ul	3.89		
17		02	/	–		/ /	0830	15		6ul	5.75		
18		03	/	–		/ /	0858	16		8ul	6.01		
19		04	/	–		/ /	0925	21		2.5ul	5.57		
20		032330 JAO 3-24-10 ~~OC23004~~-1BL1	/	–	–	/ /	0952	VIBLKAA	—	5mL	—		
21		1BL2	/	–	–	/ /	1019	VIBLKAB	—		—		
22		OC23004-CCV3	/	–	–	/ /	1047	VSTD050HV	—		—		
23						/ /		JAO 3-24-10					
24						/ /							

*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.: –
Internal Standard Lot No.: 67239

Calibration Group Code / Lot No.: S0197
Surrogate Lot No.: 67220

REVIEWED BY: Joan Ockolinde

Date 3-24-10

05/05/09:JR

942

146

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 1047

Lab File ID: 0C23004-CCV391.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HV Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.835	0.636	0.010	-23.9	40.0
Chloromethane	0.400	0.448	0.010	11.9	40.0
Vinyl chloride	0.403	0.367	0.100	-9.1	25.0
Bromomethane	0.163	0.153	0.100	-6.5	25.0
Chloroethane	0.204	0.198	0.010	-3.0	40.0
Trichlorofluoromethane	0.537	0.449	0.010	-16.3	40.0
1,1-Dichloroethene	0.227	0.203	0.100	-10.6	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.223	0.182	0.010	-18.4	40.0
Acetone	0.088	0.090	0.010	1.6	40.0
Carbon disulfide	0.840	0.771	0.010	-8.2	40.0
Methyl acetate	0.208	0.201	0.010	-3.3	40.0
Methylene chloride	0.254	0.257	0.010	0.8	40.0
trans-1,2-Dichloroethene	0.393	0.366	0.010	-7.0	40.0
Methyl tert-butyl ether	1.151	1.086	0.010	-5.6	40.0
1,1-Dichloroethane	0.692	0.679	0.200	-1.9	25.0
cis-1,2-Dichloroethene	0.388	0.390	0.010	0.7	40.0
2-Butanone	0.157	0.168	0.010	6.7	40.0
Bromochloromethane	0.185	0.175	0.050	-5.6	25.0
Chloroform	0.830	0.795	0.200	-4.2	25.0
1,1,1-Trichloroethane	0.806	0.678	0.100	-15.9	25.0
Cyclohexane	0.420	0.417	0.010	-0.6	40.0
Carbon tetrachloride	0.713	0.568	0.100	-20.4	25.0
Benzene	1.499	1.522	0.400	1.6	25.0
1,2-Dichloroethane	0.740	0.726	0.100	-1.8	25.0
1,4-Dioxane	0.005	0.004	0.005	-6.1	50.0
Trichloroethene	0.407	0.369	0.300	-9.2	25.0
Methylcyclohexane	0.491	0.461	0.010	-6.0	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 1047

Lab File ID: 0C23004-CCV391.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HV Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.365	0.376	0.010	2.9	40.0
Bromodichloromethane	0.650	0.595	0.200	-8.5	25.0
cis-1,3-Dichloropropene	0.742	0.710	0.200	-4.4	25.0
4-Methyl-2-pentanone	0.376	0.400	0.010	6.4	40.0
Toluene	1.719	1.665	0.400	-3.2	25.0
trans-1,3-Dichloropropene	0.768	0.709	0.100	-7.7	25.0
1,1,2-Trichloroethane	0.351	0.341	0.100	-2.8	25.0
Tetrachloroethene	0.320	0.272	0.100	-15.1	25.0
2-Hexanone	0.306	0.318	0.010	4.1	40.0
Dibromochloromethane	0.476	0.415	0.100	-12.8	25.0
1,2-Dibromoethane	0.381	0.355	0.010	-6.9	40.0
Chlorobenzene	1.211	1.114	0.500	-8.0	25.0
Ethylbenzene	2.075	1.989	0.100	-4.1	25.0
o-Xylene	0.748	0.732	0.300	-2.0	25.0
m,p-Xylene	0.785	0.753	0.300	-4.0	25.0
Styrene	1.298	1.242	0.300	-4.3	25.0
Bromoform	0.499	0.451	0.050	-9.6	25.0
Isopropylbenzene	1.987	1.915	0.010	-3.6	40.0
1,1,2,2-Tetrachloroethane	0.516	0.489	0.300	-5.4	25.0
1,3-Dichlorobenzene	1.615	1.555	0.600	-3.7	25.0
1,4-Dichlorobenzene	1.743	1.627	0.500	-6.6	25.0
1,2-Dichlorobenzene	1.560	1.551	0.400	-0.6	25.0
1,2-Dibromo-3-chloropropane	0.246	0.208	0.010	-15.5	40.0
1,2,4-Trichlorobenzene	0.985	0.859	0.200	-12.9	25.0
1,2,3-Trichlorobenzene	0.954	0.906	0.200	-5.1	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 1047

Lab File ID: 0C23004-CCV391.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HV Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

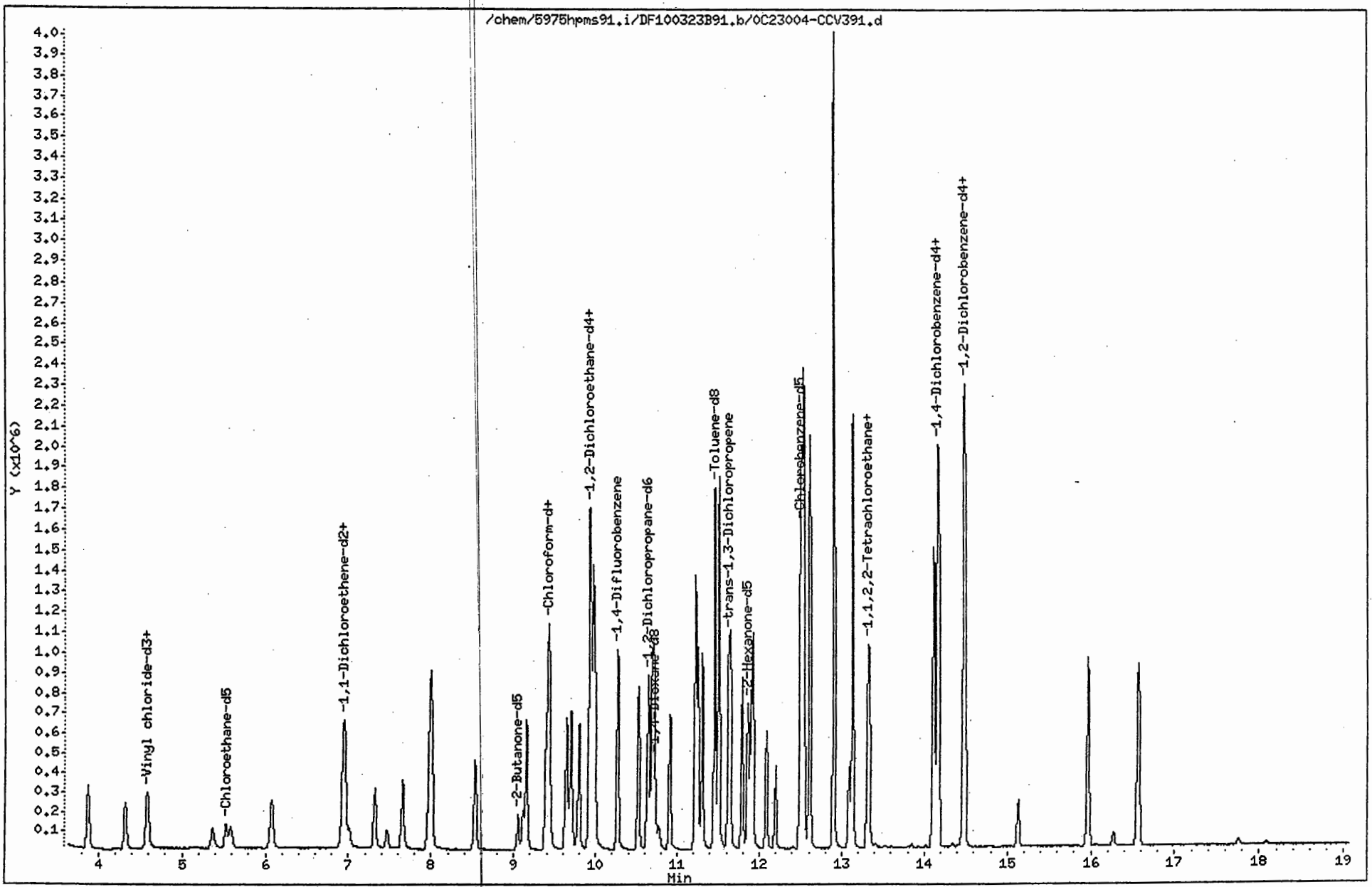
COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.372	0.364	0.010	-2.3	25.0
Chloroethane-d5	0.259	0.262	0.010	1.3	40.0
1,1-Dichloroethene-d2	0.635	0.622	0.010	-2.0	25.0
2-Butanone-d5	0.161	0.148	0.010	-8.1	40.0
Chloroform-d	0.938	0.954	0.010	1.7	25.0
1,2-Dichloroethane-d4	0.622	0.622	0.010	-0.1	25.0
Benzene-d6	1.522	1.644	0.010	8.0	25.0
1,2-Dichloropropane-d6	0.421	0.464	0.010	10.0	40.0
Toluene-d8	1.557	1.573	0.010	1.0	25.0
trans-1,3-Dichloropropene-d4	0.702	0.674	0.010	-4.1	25.0
2-Hexanone-d5	0.146	0.148	0.010	1.0	40.0
1,4-Dioxane-d8	0.005	0.004	0.005	-2.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.553	0.545	0.010	-1.4	25.0
1,2-Dichlorobenzene-d4	1.110	1.069	0.010	-3.7	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF100323B91.b/0C23004-CCV391.d
Date : 24-MAR-2010 10:47
Client ID: VSTD050HV
Sample Info: 0C23004-CCV3:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- 38220
SIGNATURE _____ DATE 3/24/10



Data File: /chem/5975hpms91.i/DF100323B91.b/0C23004-CCV391.d
Report Date: 25-Mar-2010 17:31

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100323B91.b/0C23004-CCV391.d
Lab Smp Id: 0C23004-CCV3 Client Smp ID: VSTD050HV
Inj Date : 24-MAR-2010 10:47
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 0C23004-CCV3:TD
Misc Info : VSTD050HV
Comment :
Method : /chem/5975hpms91.i/DF100323B91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 17:31 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	AMOUNTS ON-COL (ng)
*	1 1,4-Difluorobenzene	114	10.264	10.264	(1.000)	689474	250.000	
*	2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	700704	250.000	
*	3 1,4-Dichlorobenzene-d4	152	14.147	14.147	(1.000)	374217	250.000	
$	4 Vinyl chloride-d3	65	4.570	4.570	(0.445)	250733	250.000	244.203
$	5 Chloroethane-d5	69	5.527	5.527	(0.538)	180577	250.000	253.181
$	6 1,1-Dichloroethene-d2	63	6.935	6.935	(0.676)	429049	250.000	244.954
$	7 2-Butanone-d5	46	9.050	9.050	(0.882)	203744	500.000	459.737
$	8 Chloroform-d	84	9.410	9.410	(0.917)	657676	250.000	254.309
$	9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	428785	250.000	249.858
$	10 Benzene-d6	84	9.928	9.928	(0.795)	1151625	250.000	269.993
$	11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	324973	250.000	275.097
$	12 Toluene-d8	98	11.452	11.452	(0.917)	1101936	250.000	252.527
$	13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	472188	250.000	239.818
$	14 2-Hexanone-d5	63	11.849	11.849	(0.949)	206869	500.000	504.955
$	15 1,4-Dioxane-d8	96	10.727	10.727	(1.045)	61344	5000.00	4898.51

3/26

Data File: /chem/5975hpms91.i/DF100323B91.b/0C23004-CCV391.d
Report Date: 25-Mar-2010 17:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 16	1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	381766	250.000	246.436
$ 17	1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.023)	399904	250.000	240.703
18	Dichlorodifluoromethane	85	3.875	3.875	(0.377)	438302	250.000	190.294
19	Chloromethane	50	4.320	4.320	(0.421)	308781	250.000	279.799
20	Vinyl chloride	62	4.588	4.588	(0.447)	252842	250.000	227.253
21	Bromomethane	94	5.362	5.362	(0.522)	105272	250.000	233.841
22	Chloroethane	64	5.582	5.582	(0.544)	136514	250.000	242.532
23	Trichlorofluoromethane	101	6.069	6.069	(0.591)	309884	250.000	209.336
24	1,1-Dichloroethene	96	6.959	6.959	(0.678)	140002	250.000	223.594
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.929	6.929	(0.675)	125152	250.000	203.906
26	Acetone	43	7.008	7.008	(0.683)	123514	500.000	507.988
27	Carbon disulfide	76	7.319	7.319	(0.713)	531405	250.000	229.455
28	Methyl acetate	43	7.465	7.465	(0.727)	138779	250.000	241.850
29	Methylene chloride	84	7.654	7.654	(0.746)	176898	250.000	252.102
30	trans-1,2-Dichloroethene	96	8.002	8.002	(0.780)	252333	250.000	232.622
31	Methyl tert-butyl ether	73	7.977	7.977	(0.777)	748690	250.000	235.924
32	1,1-Dichloroethane	63	8.526	8.526	(0.831)	468084	250.000	245.161
33	cis-1,2-Dichloroethene	96	9.148	9.148	(0.891)	269101	250.000	251.630
34	2-Butanone	43	9.111	9.111	(0.888)	231376	500.000	533.738
35	Bromochloromethane	128	9.386	9.386	(0.914)	120709	250.000	235.969
36	Chloroform	83	9.434	9.434	(0.919)	548072	250.000	239.518
37	1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	474915	250.000	210.341
38	Cyclohexane	56	9.691	9.691	(0.776)	292417	250.000	248.563
39	Carbon tetrachloride	117	9.794	9.794	(0.784)	397725	250.000	198.948
40	Benzene	78	9.965	9.965	(0.798)	1066767	250.000	253.914
41	1,2-Dichloroethane	62	9.983	9.983	(0.973)	500873	250.000	245.575
42	1,4-Dioxane	88	10.776	10.776	(1.050)	61657	5000.00	4696.01
43	Trichloroethene	95	10.520	10.520	(0.842)	258894	250.000	226.895
44	Methylcyclohexane	83	10.684	10.684	(0.855)	323247	250.000	234.954
45	1,2-Dichloropropane	63	10.709	10.709	(0.857)	263165	250.000	257.341
46	Bromodichloromethane	83	10.904	10.904	(0.873)	416824	250.000	228.845
47	cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	497298	250.000	239.051
48	4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	560553	500.000	532.115
49	Toluene	91	11.501	11.501	(0.921)	1166558	250.000	242.084
50	trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	496610	250.000	230.753
51	1,1,2-Trichloroethane	97	11.788	11.788	(0.944)	238909	250.000	242.991
52	Tetrachloroethene	164	11.916	11.916	(0.954)	190283	250.000	212.255
53	2-Hexanone	43	11.885	11.885	(0.952)	446085	500.000	520.623
54	Dibromochloromethane	129	12.080	12.080	(0.967)	290946	250.000	217.919
55	1,2-Dibromoethane	107	12.196	12.196	(0.977)	248973	250.000	232.873
56	Chlorobenzene	112	12.513	12.513	(1.002)	780592	250.000	229.946
57	Ethylbenzene	91	12.538	12.538	(1.004)	1393986	250.000	239.691
58	m,p-Xylene	106	12.605	12.605	(1.009)	527761	250.000	239.986
59	o-Xylene	106	12.897	12.897	(1.033)	513184	250.000	244.901
60	Styrene	104	12.897	12.897	(1.033)	870444	250.000	239.299
61	Bromoform	173	13.086	13.086	(0.925)	168839	250.000	225.982
62	Isopropylbenzene	105	13.129	13.129	(1.051)	1341967	250.000	241.008

Data File: /chem/5975hpms91.i/DF100323B91.b/0C23004-CCV391.d
Report Date: 25-Mar-2010 17:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	342414	250.000	236.551
64 1,3-Dichlorobenzene	146	14.104	14.104	(0.997)	581781	250.000	240.634
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.002)	608741	250.000	233.380
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	580321	250.000	248.444
67 1,2-Dibromo-3-chloropropane	75	15.129	15.129	(1.069)	77707	250.000	211.362
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	321338	250.000	217.847
69 1,2,3-Trichlorobenzene	180	16.561	16.561	(1.171)	338884	250.000	237.315

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS VOLATILE RUN LOG
COMPUCHEM LOGBOOK 23 BB 7 (5975hpms91)

DATE 3/24/10 INITIAL TIME OF TUNE 1047 SHIFT/S (A) ✓ (B)____ (C)____
TIME TUNE EXPIRES 2247
METHOD: 624 8260B OLC03.2 OLM04.3 SOM01.2 (Circle one) or Other: water
PREVENTIVE MAINTENANCE none

	FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1	0C23004-CCV3		—	—	3/24/10	1047	VSTD050HV	—	5mL	—	TD	LCD=SCD
2	0032416-BLK1	SL	—	—	/ /	1200	VBLKHV	VARIOUS	~~100µL~~ 5mL	—	JAO	
3	↓ -BLK1R		—	—	/ /	1251	VBLKHV	↓	↓	—		
4	1003175-01		1	A	/ /	1331	S-1	1003175	5mL	—		
5	-02		1	A	/ /	1358	S-2			—		
6	-03		1	A	/ /	1425	S-3			—		
7	-04		1	A	/ /	1453	S-4			—		
8	-05		1	A	/ /	1520	S-5			—		
9	-06		1	A	/ /	1547	S-6			—		
10	-07		1	A	/ /	1614	TRIP BLANK	↓	↓	—		
11	1003135-15		1	B	/ /	1645	MW-37	1003135	5mL	—		
12	-16		1	B	/ /	1712	MW-36		↓	—		
13	-18D		1	B	/ /	1739	DW-3		300µL	16.67		
14	-19D		1	B	/ /	1806	MW-27		750µL	6.67		
15	-22D		1	B	/ /	1834	MW-54		850µL	5.88		
16	-23D		1	B	/ /	1901	MW-15		300µL	16.67		
17	-20		1	A	/ /	1928	FB100319		~~25~~ 5mL	—		
18	-21		1	A	/ /	1956	EB100319			JAO 3-24-10		
19	↓ -24		1	A	/ /	2023	TB20100319	↓	↓	—		
20	1003163-01		1	B	/ /	2050	B81Z4	B81Z4	5mL	—		
21	-02		1	B	/ /	2118	B81Z5	↓	↓	—		
22	1003135-06		1	A	/ /	2145	VHBLKXZ	1003135	5mL	—		1003175
23	0C23004-CCV4		—	—	/ /	2212	VSTD050HW	—	5mL	—		
24	↓ -CCV4R	OT	—	—	/ /	—		—	↓	—		Not Run

*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.: —
Internal Standard Lot No.: 67239
Calibration Group Code / Lot No.: S0197
Surrogate Lot No.: 67258

REVIEWED BY: B
Date 3-24-10

05/05/09:JR

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 2212

Lab File ID: 0C23004-CCV491.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HW Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.835	0.778	0.010	-6.8	50.0
Chloromethane	0.400	0.517	0.010	29.3	50.0
Vinyl chloride	0.403	0.447	0.010	10.9	50.0
Bromomethane	0.163	0.174	0.010	6.5	50.0
Chloroethane	0.204	0.237	0.010	16.2	50.0
Trichlorofluoromethane	0.537	0.564	0.010	5.0	50.0
1,1-Dichloroethene	0.227	0.230	0.010	1.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.223	0.219	0.010	-1.6	50.0
Acetone	0.088	0.102	0.010	16.0	50.0
Carbon disulfide	0.840	0.916	0.010	9.1	50.0
Methyl acetate	0.208	0.227	0.010	8.9	50.0
Methylene chloride	0.254	0.289	0.010	13.6	50.0
trans-1,2-Dichloroethene	0.393	0.397	0.010	0.8	50.0
Methyl tert-butyl ether	1.151	0.979	0.010	-14.9	50.0
1,1-Dichloroethane	0.692	0.690	0.010	-0.3	50.0
cis-1,2-Dichloroethene	0.388	0.429	0.010	10.7	50.0
2-Butanone	0.157	0.162	0.010	2.9	50.0
Bromochloromethane	0.185	0.196	0.010	5.6	50.0
Chloroform	0.830	0.911	0.010	9.7	50.0
1,1,1-Trichloroethane	0.806	0.694	0.010	-13.8	50.0
Cyclohexane	0.420	0.369	0.010	-12.0	50.0
Carbon tetrachloride	0.713	0.621	0.010	-12.9	50.0
Benzene	1.499	1.549	0.010	3.3	50.0
1,2-Dichloroethane	0.740	0.852	0.010	15.3	50.0
1,4-Dioxane	0.005	0.005	0.0050	-1.7	50.0
Trichloroethene	0.407	0.349	0.010	-14.4	50.0
Methylcyclohexane	0.491	0.464	0.010	-5.5	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 2212

Lab File ID: 0C23004-CCV491.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HW Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.365	0.393	0.010	7.7	50.0
Bromodichloromethane	0.650	0.629	0.010	-3.2	50.0
cis-1,3-Dichloropropene	0.742	0.726	0.010	-2.1	50.0
4-Methyl-2-pentanone	0.376	0.374	0.010	-0.5	50.0
Toluene	1.719	1.747	0.010	1.6	50.0
trans-1,3-Dichloropropene	0.768	0.744	0.010	-3.1	50.0
1,1,2-Trichloroethane	0.351	0.363	0.010	3.5	50.0
Tetrachloroethene	0.320	0.300	0.010	-6.3	50.0
2-Hexanone	0.306	0.310	0.010	1.3	50.0
Dibromochloromethane	0.476	0.446	0.010	-6.5	50.0
1,2-Dibromoethane	0.381	0.358	0.010	-6.1	50.0
Chlorobenzene	1.211	1.209	0.010	-0.2	50.0
Ethylbenzene	2.075	2.148	0.010	3.5	50.0
o-Xylene	0.748	0.797	0.010	6.6	50.0
m,p-Xylene	0.785	0.808	0.010	3.0	50.0
Styrene	1.298	1.345	0.010	3.6	50.0
Bromoform	0.499	0.443	0.010	-11.3	50.0
Isopropylbenzene	1.987	2.076	0.010	4.5	50.0
1,1,2,2-Tetrachloroethane	0.516	0.534	0.010	3.3	50.0
1,3-Dichlorobenzene	1.615	1.484	0.010	-8.1	50.0
1,4-Dichlorobenzene	1.743	1.625	0.010	-6.8	50.0
1,2-Dichlorobenzene	1.560	1.570	0.010	0.6	50.0
1,2-Dibromo-3-chloropropane	0.246	0.199	0.010	-19.2	50.0
1,2,4-Trichlorobenzene	0.985	0.764	0.010	-22.5	50.0
1,2,3-Trichlorobenzene	0.954	0.828	0.010	-13.2	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: _____ SDG No.: 1003175

Instrument ID: 5975hpms91 Calibration Date: 03/24/2010 Time: 2212

Lab File ID: 0C23004-CCV491.d Init. Calib. Date(s): 03/05/2010 03/06/2010

EPA Sample No.(VSTD#####): VSTD050HW Init. Calib. Time(s): 2312 0102

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

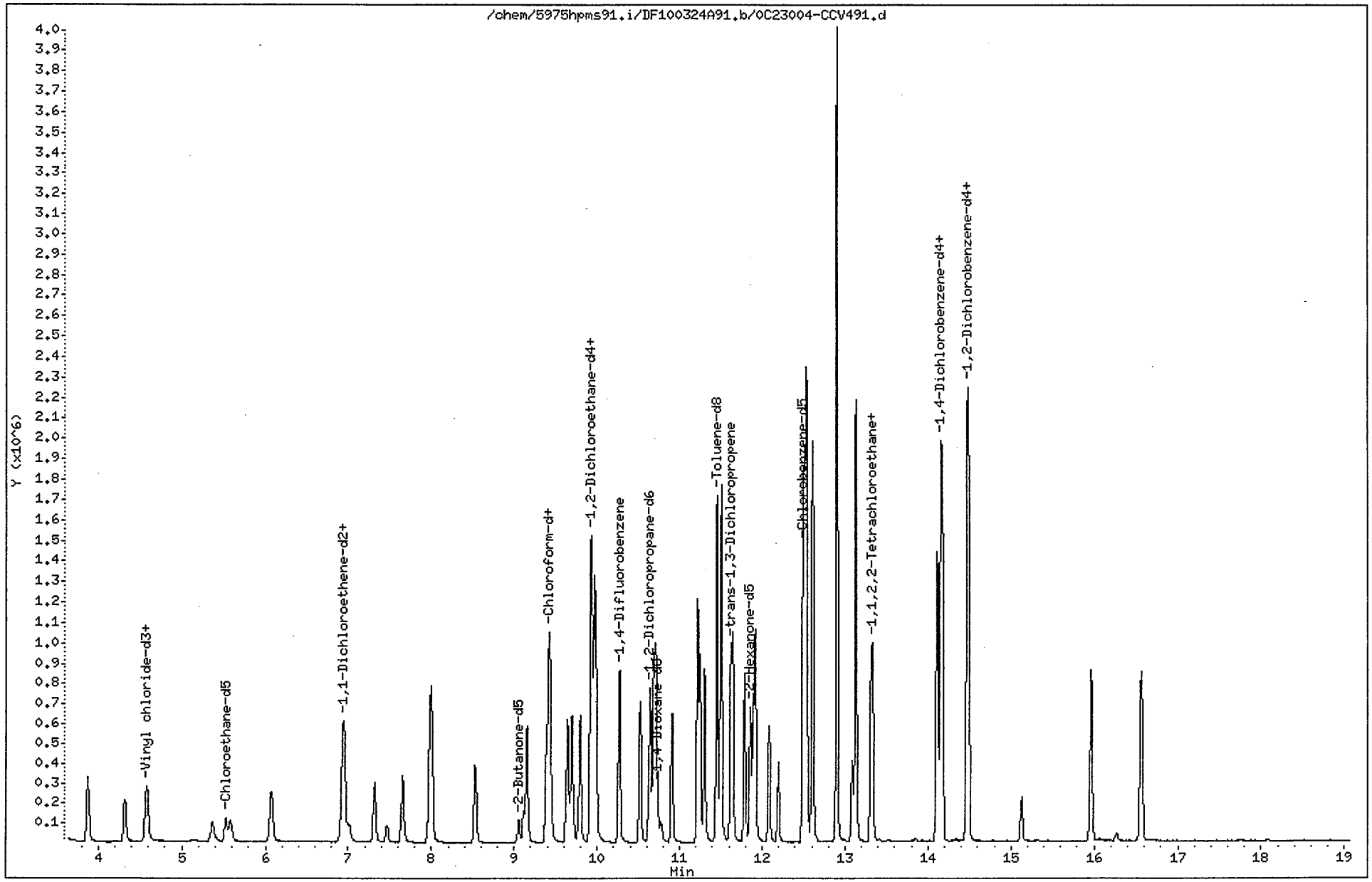
Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.372	0.410	0.010	10.2	50.0
Chloroethane-d5	0.259	0.300	0.010	16.1	50.0
1,1-Dichloroethene-d2	0.635	0.684	0.010	7.6	50.0
2-Butanone-d5	0.161	0.117	0.010	-27.2	50.0
Chloroform-d	0.938	1.076	0.010	14.7	50.0
1,2-Dichloroethane-d4	0.622	0.709	0.010	13.9	50.0
Benzene-d6	1.522	1.569	0.010	3.1	50.0
1,2-Dichloropropane-d6	0.421	0.447	0.010	6.1	50.0
Toluene-d8	1.557	1.588	0.010	2.0	50.0
trans-1,3-Dichloropropene-d4	0.702	0.674	0.010	-4.0	50.0
2-Hexanone-d5	0.146	0.136	0.010	-6.9	50.0
1,4-Dioxane-d8	0.005	0.005	0.0050	3.1	50.0
1,1,2,2-Tetrachloroethane-d2	0.553	0.578	0.010	4.5	50.0
1,2-Dichlorobenzene-d4	1.110	1.036	0.010	-6.6	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF100324A91.b/0C23004-CCV491.d
Date : 24-MAR-2010 22:12
Client ID: VSTD050HW
Sample Info: 0C23004-CCV4:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/0C23004-CCV491.d
Report Date: 25-Mar-2010 20:16

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/0C23004-CCV491.d
Lab Smp Id: 0C23004-CCV4 Client Smp ID: VSTD050HW
Inj Date : 24-MAR-2010 22:12
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 0C23004-CCV4:JAO
Misc Info : VSTD050HW
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 20:16 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.270	10.270	(1.000)	557382	250.000	
* 2 Chlorobenzene-d5	117	12.489	12.489	(1.000)	636295	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.153	(1.000)	367451	250.000	
$ 4 Vinyl chloride-d3	65	4.569	4.569	(0.445)	228597	250.000	275.407
$ 5 Chloroethane-d5	69	5.527	5.527	(0.538)	167370	250.000	290.276
$ 6 1,1-Dichloroethene-d2	63	6.935	6.935	(0.675)	380981	250.000	269.058
$ 7 2-Butanone-d5	46	9.050	9.050	(0.881)	130403	500.000	363.980
$ 8 Chloroform-d	84	9.416	9.416	(0.917)	599662	250.000	286.828
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	395124	250.000	284.808
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	998184	250.000	257.708
$ 11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	284524	250.000	265.236
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	1010285	250.000	254.960
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	428893	250.000	239.879
$ 14 2-Hexanone-d5	63	11.855	11.855	(0.949)	173083	500.000	465.251
$ 15 1,4-Dioxane-d8	96	10.733	10.733	(1.045)	52205	5000.00	5156.66

Data File: /chem/5975hpms91.i/DF100324A91.b/0C23004-CCV491.d
Report Date: 25-Mar-2010 20:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	367600	250.000	261.311
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	380831	250.000	233.444
18 Dichlorodifluoromethane	85	3.874	3.874	(0.377)	433692	250.000	232.916
19 Chloromethane	50	4.313	4.313	(0.420)	288435	250.000	323.303
20 Vinyl chloride	62	4.588	4.588	(0.447)	249417	250.000	277.301
21 Bromomethane	94	5.362	5.362	(0.522)	96936	250.000	266.353
22 Chloroethane	64	5.581	5.581	(0.543)	132136	250.000	290.387
23 Trichlorofluoromethane	101	6.075	6.075	(0.592)	314144	250.000	262.505
24 1,1-Dichloroethene	96	6.959	6.959	(0.678)	127992	250.000	252.857
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.929	6.929	(0.675)	122076	250.000	246.030
26 Acetone	43	7.014	7.014	(0.683)	114047	500.000	580.211
27 Carbon disulfide	76	7.313	7.313	(0.712)	510571	250.000	272.705
28 Methyl acetate	43	7.465	7.465	(0.727)	126275	250.000	272.211
29 Methylene chloride	84	7.654	7.654	(0.745)	161047	250.000	283.903
30 trans-1,2-Dichloroethene	96	8.002	8.002	(0.779)	221025	250.000	252.048
31 Methyl tert-butyl ether	73	7.977	7.977	(0.777)	545691	250.000	212.707
32 1,1-Dichloroethane	63	8.526	8.526	(0.830)	384671	250.000	249.219
33 cis-1,2-Dichloroethene	96	9.154	9.154	(0.891)	239287	250.000	276.778
34 2-Butanone	43	9.111	9.111	(0.887)	180341	500.000	514.599
35 Bromochloromethane	128	9.386	9.386	(0.914)	109195	250.000	264.048
36 Chloroform	83	9.434	9.434	(0.919)	507498	250.000	274.347
37 1,1,1-Trichloroethane	97	9.642	9.642	(0.772)	441648	250.000	215.408
38 Cyclohexane	56	9.697	9.697	(0.776)	234996	250.000	219.974
39 Carbon tetrachloride	117	9.794	9.794	(0.784)	395188	250.000	217.689
40 Benzene	78	9.965	9.965	(0.798)	985441	250.000	258.299
41 1,2-Dichloroethane	62	9.989	9.989	(0.973)	475166	250.000	288.182
42 1,4-Dioxane	88	10.776	10.776	(1.049)	52158	5000.00	4913.97
43 Trichloroethene	95	10.520	10.520	(0.842)	221823	250.000	214.085
44 Methylcyclohexane	83	10.684	10.684	(0.855)	295013	250.000	236.138
45 1,2-Dichloropropane	63	10.709	10.709	(0.857)	249947	250.000	269.156
46 Bromodichloromethane	83	10.904	10.904	(0.873)	400364	250.000	242.059
47 cis-1,3-Dichloropropene	75	11.245	11.245	(0.900)	462231	250.000	244.686
48 4-Methyl-2-pentanone	43	11.300	11.300	(0.905)	476124	500.000	497.720
49 Toluene	91	11.501	11.501	(0.921)	1111725	250.000	254.059
50 trans-1,3-Dichloropropene	75	11.641	11.641	(0.932)	473255	250.000	242.160
51 1,1,2-Trichloroethane	97	11.781	11.781	(0.943)	231040	250.000	258.774
52 Tetrachloroethene	164	11.916	11.916	(0.954)	190599	250.000	234.128
53 2-Hexanone	43	11.885	11.885	(0.952)	394099	500.000	506.509
54 Dibromochloromethane	129	12.086	12.086	(0.968)	283484	250.000	233.823
55 1,2-Dibromoethane	107	12.196	12.196	(0.977)	227854	250.000	234.693
56 Chlorobenzene	112	12.513	12.513	(1.002)	769412	250.000	249.595
57 Ethylbenzene	91	12.537	12.537	(1.004)	1366920	250.000	258.829
58 m,p-Xylene	106	12.611	12.611	(1.010)	514384	250.000	257.580
59 o-Xylene	106	12.897	12.897	(1.033)	507024	250.000	266.454
60 Styrene	104	12.897	12.897	(1.033)	855550	250.000	259.013
61 Bromoform	173	13.086	13.086	(0.925)	162710	250.000	221.789
62 Isopropylbenzene	105	13.129	13.129	(1.051)	1320865	250.000	261.231

Data File: /chem/5975hpms91.i/DF100324A91.b/0C23004-CCV491.d
Report Date: 25-Mar-2010 20:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
63 1,1,2,2-Tetrachloroethane	83	13.330	13.330	(1.067)	339563	250.000	258.327
64 1,3-Dichlorobenzene	146	14.104	14.104	(0.997)	545287	250.000	229.693
65 1,4-Dichlorobenzene	146	14.171	14.171	(1.001)	596968	250.000	233.081
66 1,2-Dichlorobenzene	146	14.488	14.488	(1.024)	577006	250.000	251.573
67 1,2-Dibromo-3-chloropropane	75	15.128	15.128	(1.069)	72962	250.000	202.110
68 1,2,4-Trichlorobenzene	180	15.964	15.964	(1.128)	280658	250.000	193.772
69 1,2,3-Trichlorobenzene	180	16.561	16.561	(1.170)	304139	250.000	216.905

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/DF100305B91.b/0C05012-TUN191.d

Date : 05-MAR-2010 22:56

Client ID: BFBXD

Instrument: 5975hpms91.i

Sample Info: 0C05012-TUN1:TD

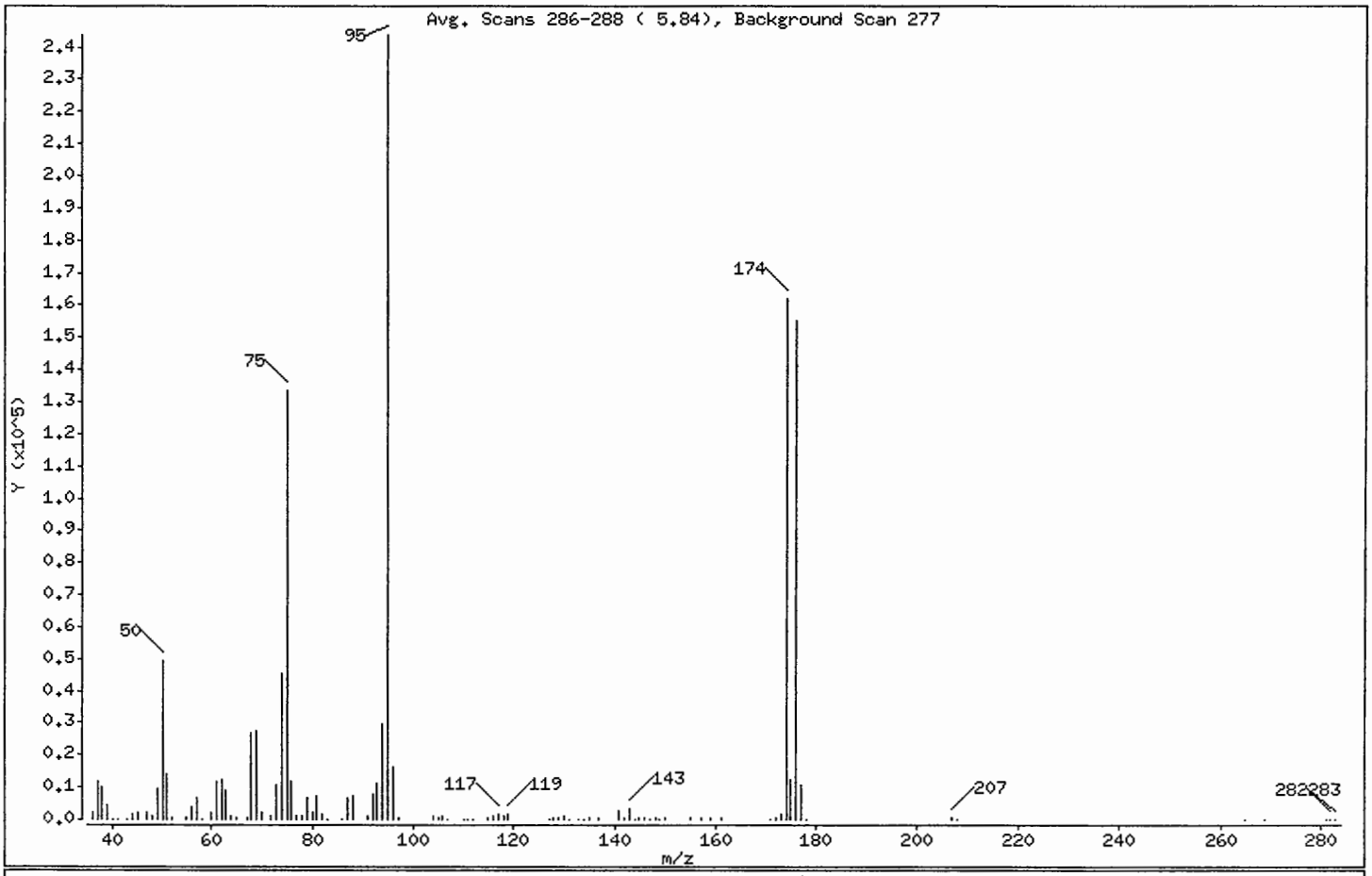
Volume Injected (uL): 2.0

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	20.33
75	30.00 - 80.00% of mass 95	54.73
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.67 (1.00)
174	50.00 - 120.00% of mass 95	66.52
175	5.00 - 9.00% of mass 174	4.96 (7.45)
176	95.00 - 101.00% of mass 174	63.57 (95.57)
177	5.00 - 9.00% of mass 176	4.27 (6.71)

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-TUN191.d

Date : 05-MAR-2010 22:56

Client ID: BFBXD Instrument: 5975hpms91.i

Sample Info: 0C05012-TUN1:TD

Volume Injected (uL): 2.0 Operator: TD

Column phase: SPB-624 Column diameter: 0.32

Data File: 0C05012-TUN191.d
Spectrum: Avg. Scans 286-288 (5.84), Background Scan 277
Location of Maximum: 95.00
Number of points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2361	68.00	27136	105.00	530	147.00	115
37.00	11507	69.00	27296	106.00	1125	148.00	591
38.00	10123	70.00	2005	107.00	226	149.00	85
39.00	4321	72.00	1204	110.00	122	150.00	352
40.00	200	73.00	10609	111.00	214	155.00	561
41.00	96	74.00	45608	112.00	119	157.00	407
43.00	101	75.00	133376	115.00	477	159.00	351
44.00	1430	76.00	11671	116.00	1029	161.00	458
45.00	2227	77.00	1352	117.00	1871	171.00	87
47.00	1996	78.00	896	118.00	966	172.00	591
48.00	1351	79.00	6628	119.00	1651	173.00	1627
49.00	9788	80.00	2081	127.00	107	174.00	162112
50.00	49552	81.00	7201	128.00	763	175.00	12087
51.00	14053	82.00	1566	129.00	440	176.00	154944
52.00	661	83.00	89	130.00	945	177.00	10404
55.00	692	86.00	235	131.00	276	178.00	260
56.00	3751	87.00	6763	133.00	42	207.00	733
57.00	6807	88.00	7230	134.00	191	208.00	28
58.00	258	91.00	1053	135.00	519	265.00	85
60.00	2501	92.00	7962	137.00	541	269.00	203
61.00	11971	93.00	11474	141.00	2889	281.00	114
62.00	12052	94.00	29928	142.00	414	282.00	210
63.00	8964	95.00	243712	143.00	3109	283.00	93
64.00	850	96.00	16277	144.00	83		
65.00	371	97.00	556	145.00	427		
67.00	704	104.00	1214	146.00	348		

Data File: /chem/5975hpms91.i/DF100305B91.b/0C05012-TUN191.d
Date : 05-MAR-2010 22:56
Client ID: BFBXD
Sample Info: 0C05012-TUN1:TD
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32

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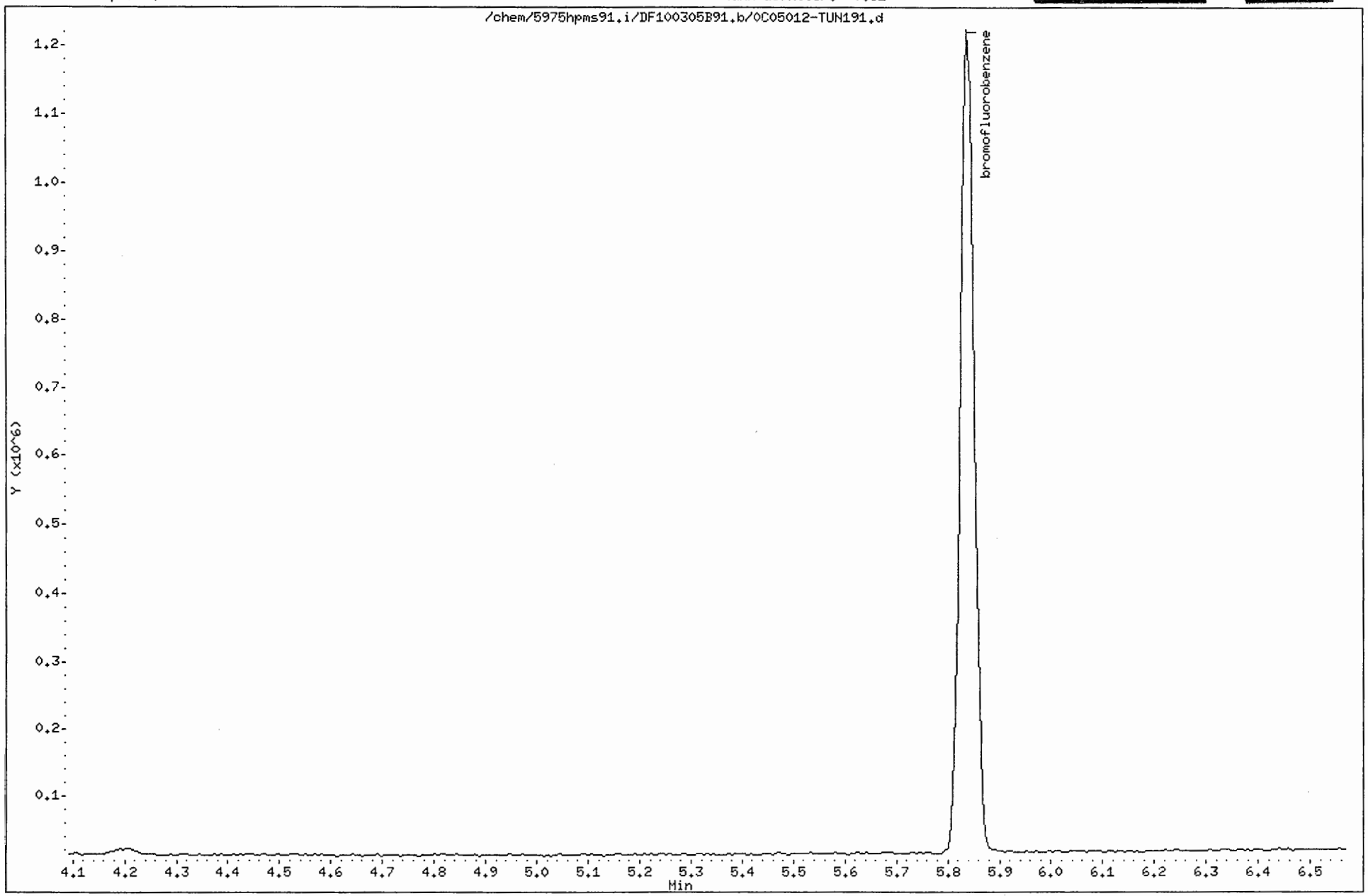
ORIGINAL DOCUMENTS INCLUDED IN CSF-_____
SIGNATURE_____DATE_____



Data File: /chem/5975hpms91.i/DF100323A91.b/0C23004-TUN191.d

Date : 23-MAR-2010 13:14

Client ID:

Instrument: 5975hpms91.

Sample Info: 0C23004-TUN1:JAO

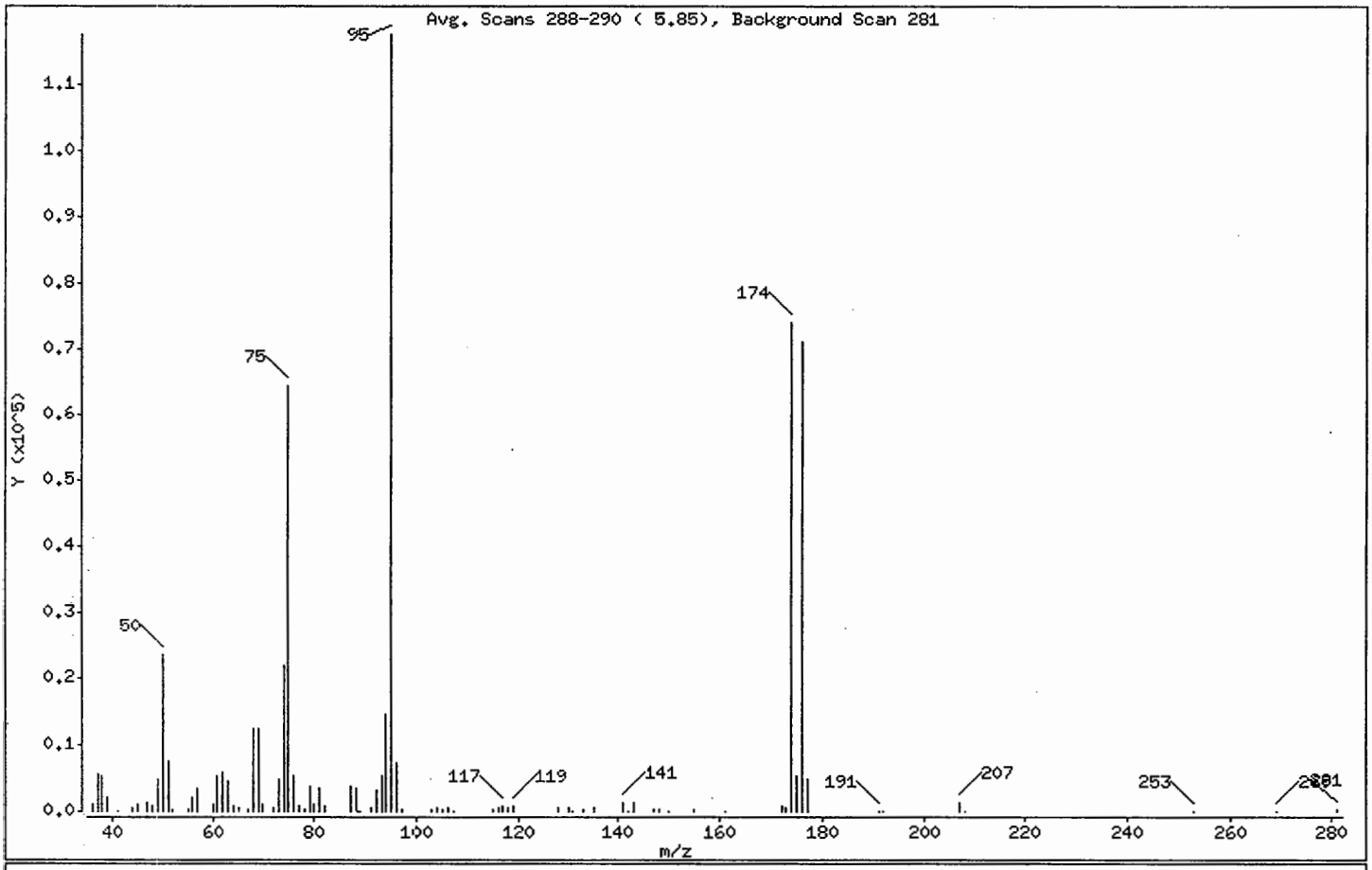
Volume Injected (uL): 2.0

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	20.05
75	30.00 - 80.00% of mass 95	54.81
96	5.00 - 9.00% of mass 95	6.24
173	Less than 2.00% of mass 174	0.45 (0.71)
174	50.00 - 120.00% of mass 95	63.03
175	5.00 - 9.00% of mass 174	4.65 (7.37)
176	95.00 - 101.00% of mass 174	60.43 (95.87)
177	5.00 - 9.00% of mass 176	4.17 (6.89)

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23004-TUN191.d

Date : 23-MAR-2010 13:14

Client ID: Instrument: 5975hpms91.

Sample Info: 0C23004-TUN1:JAO

Volume Injected (uL): 2.0 Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Data File: 0C23004-TUN191.d

Spectrum: Avg. Scans 288-290 (5.85), Background Scan 281

Location of Maximum: 95.00

Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1054	65.00	587	93.00	5451	142.00	86
37.00	5667	67.00	259	94.00	14637	143.00	1288
38.00	5360	68.00	12451	95.00	117576	147.00	251
39.00	2292	69.00	12341	96.00	7342	148.00	196
41.00	116	70.00	1014	97.00	283	150.00	84
44.00	456	72.00	585	103.00	229	155.00	356
45.00	1104	73.00	4850	104.00	643	161.00	106
47.00	1248	74.00	21848	105.00	303	172.00	937
48.00	676	75.00	64440	106.00	544	173.00	525
49.00	4993	76.00	5308	107.00	87	174.00	74112
50.00	23568	77.00	705	115.00	218	175.00	5466
51.00	7464	78.00	299	116.00	563	176.00	71048
52.00	381	79.00	3707	117.00	893	177.00	4899
55.00	210	80.00	1003	118.00	486	191.00	120
56.00	2090	81.00	3643	119.00	698	192.00	96
57.00	3536	82.00	845	128.00	501	207.00	1220
60.00	1132	87.00	3836	130.00	478	208.00	119
61.00	5510	88.00	3487	131.00	98	253.00	123
62.00	5851	89.00	101	133.00	370	269.00	123
63.00	4637	91.00	613	135.00	409	281.00	282
64.00	679	92.00	3344	141.00	1485		

Data File: /chem/5975hpms91.i/DF100323A91.b/0C23004-TUN191.d
Date : 23-MAR-2010 13:14
Client ID:
Sample Info: 0C23004-TUN1:JAO
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5975hpms91.

Operator: JAO
Column diameter: 0.32

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SIGNATURE _____ DATE 3/29/10

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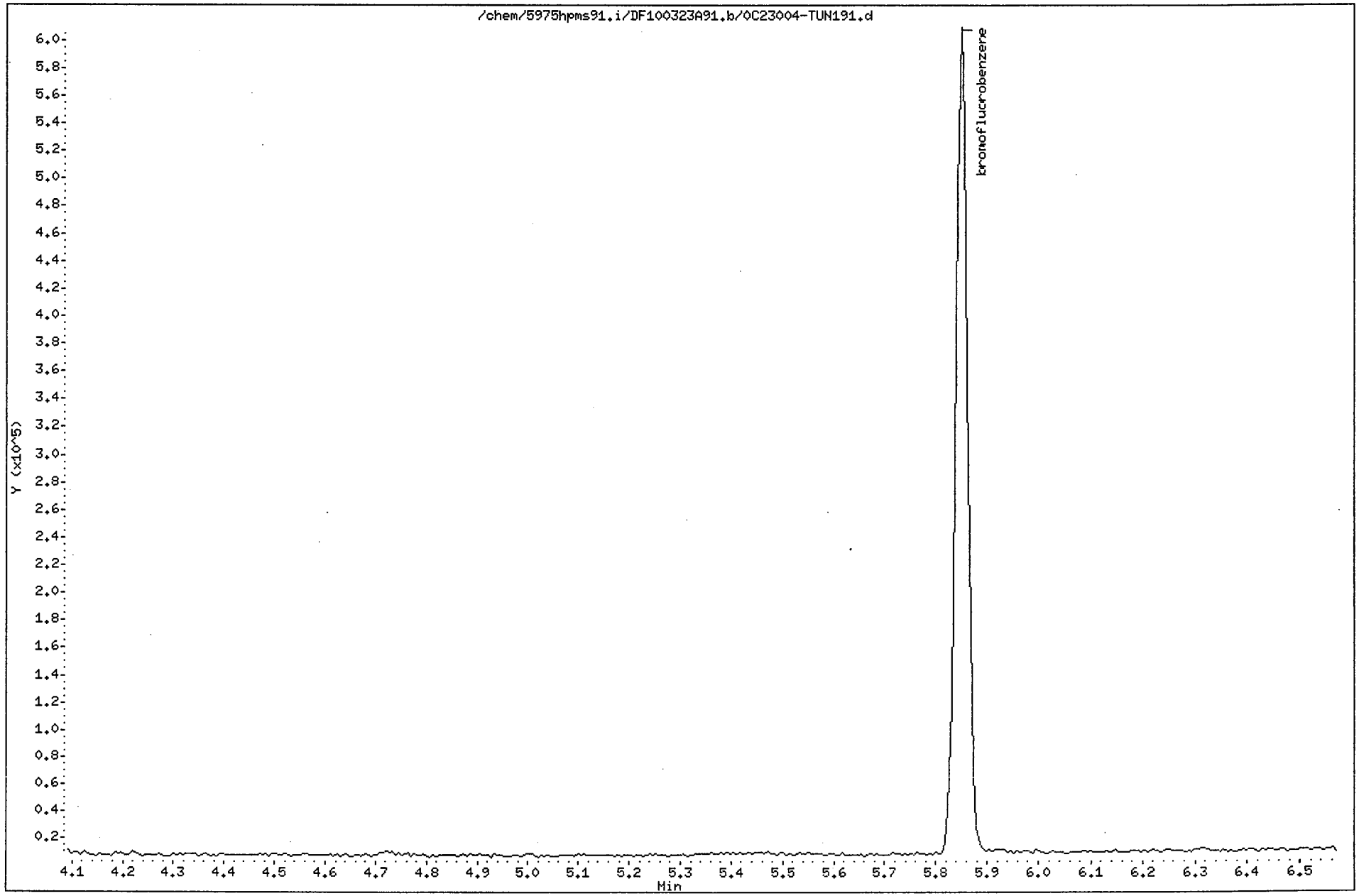


b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument. Shall include:

- Tabulated Results (Form I, VOA-1, VOA-2, VOA-SIM)

- 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.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKHV

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0032416-BLK1

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 0032416-BLK1R91.d

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKHV

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0032416-BLK1

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 0032416-BLK1R91.d

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

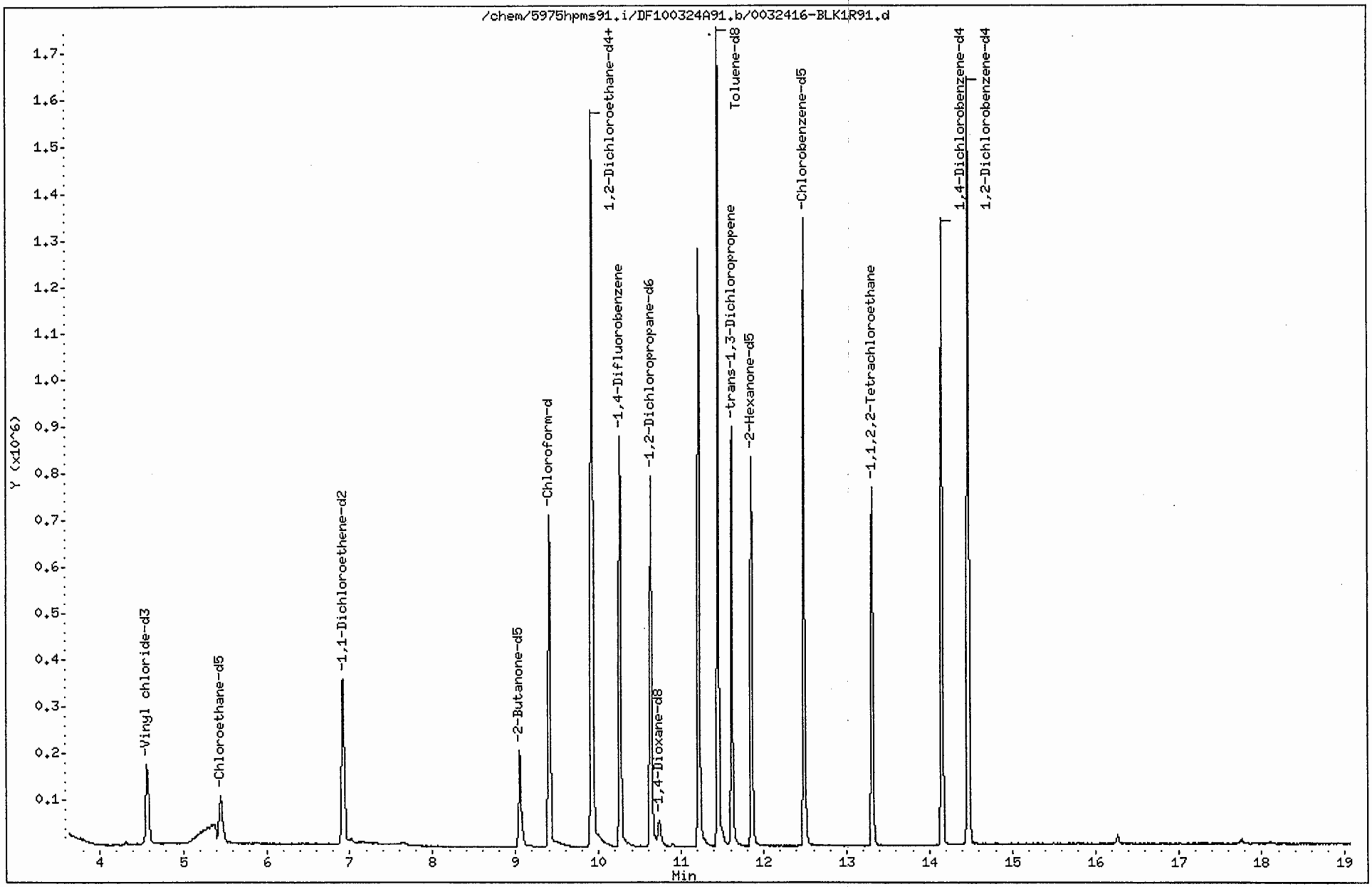
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d
Date : 24-MAR-2010 12:51
Client ID: VBLKHV
Instrument: 5975hpms91.i
Sample Info: 0032416-BLK1:JAO
Purge Volume: 5.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d
Lab Smp Id: 0032416-BLK1 Client Smp ID: VBLKHV
Inj Date : 24-MAR-2010 12:51
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 0032416-BLK1:JAO
Misc Info : VBLKHV
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 25 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	10.264	10.264	(1.000)	555230	250.000	
* 2	Chlorobenzene-d5	117	12.489	12.489	(1.000)	605077	250.000	
* 3	1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	313228	250.000	
$ 4	Vinyl chloride-d3	65	4.569	4.570	(0.445)	244899	296.190	59.2381
$ 5	Chloroethane-d5	69	5.447	5.527	(0.531)	145344	253.053	50.6106
$ 6	1,1-Dichloroethene-d2	63	6.923	6.935	(0.674)	324707	230.205	46.0410
$ 7	2-Butanone-d5	46	9.050	9.050	(0.882)	224870	630.088	126.018
$ 8	Chloroform-d	84	9.410	9.410	(0.917)	554180	266.100	53.2201
$ 9	1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	385466	278.924	55.7847
$ 10	Benzene-d6	84	9.922	9.928	(0.794)	990612	268.949	53.7897
$ 11	1,2-Dichloropropane-d6	67	10.635	10.635	(0.852)	278874	273.382	54.6764
$ 12	Toluene-d8	98	11.446	11.452	(0.917)	984214	261.195	52.2390
$ 13	trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	423206	248.910	49.7820
$ 14	2-Hexanone-d5	63	11.855	11.849	(0.949)	208283	588.755	117.751
$ 15	1,4-Dioxane-d8	96	10.733	10.727	(1.046)	34116	3382.94	676.589

Data File: /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.066)	328583	245.627	49.1253
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	398871	286.828	57.3656
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	4.307	4.320	(0.420)	7912	8.90282	1.78056(a)
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	9.093	9.111	(0.886)	7418	21.2491	4.24983(a)
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d

Date : 24-MAR-2010 12:51

Client ID: VBLKHV

Instrument: 5975hpms91.i

Sample Info: 0032416-BLK1:JAO

Purge Volume: 5.0

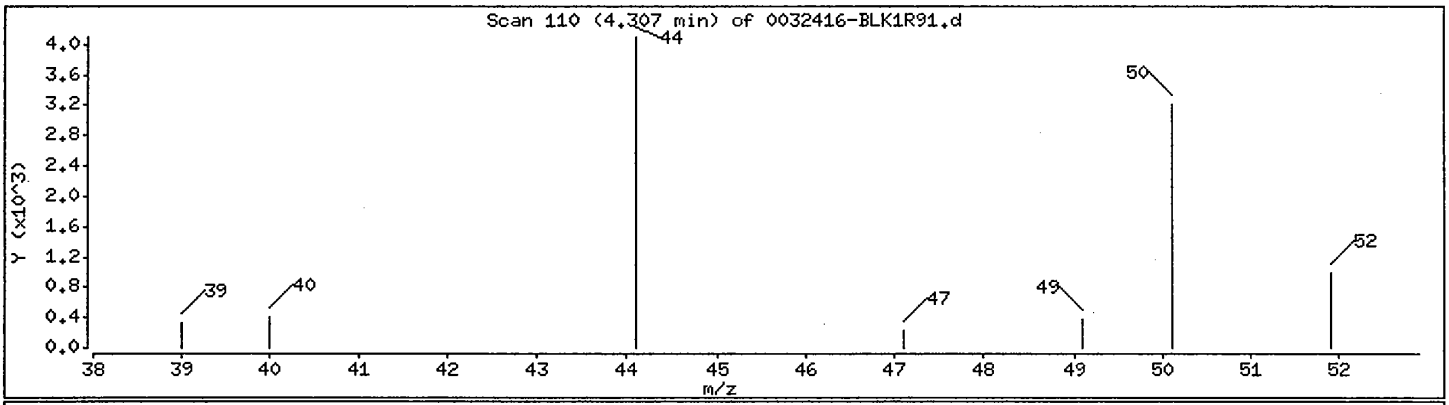
Operator: JAO

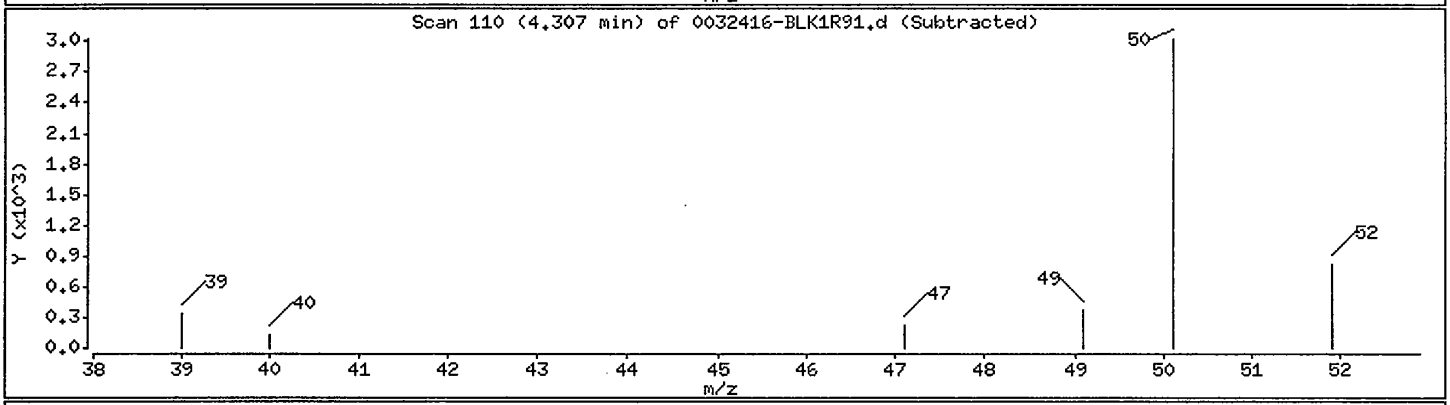
Column phase: SPB-624

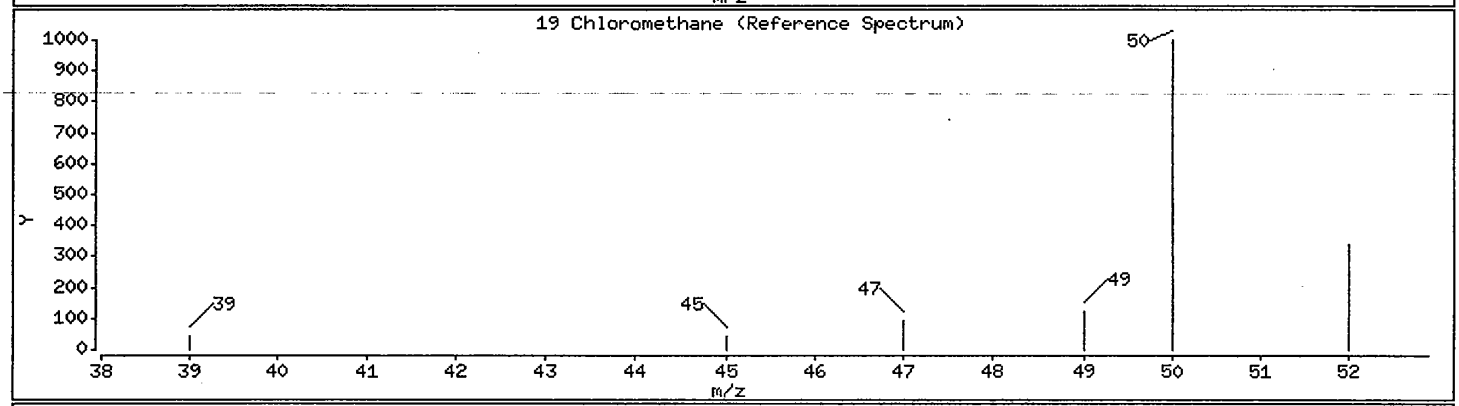
Column diameter: 0.32

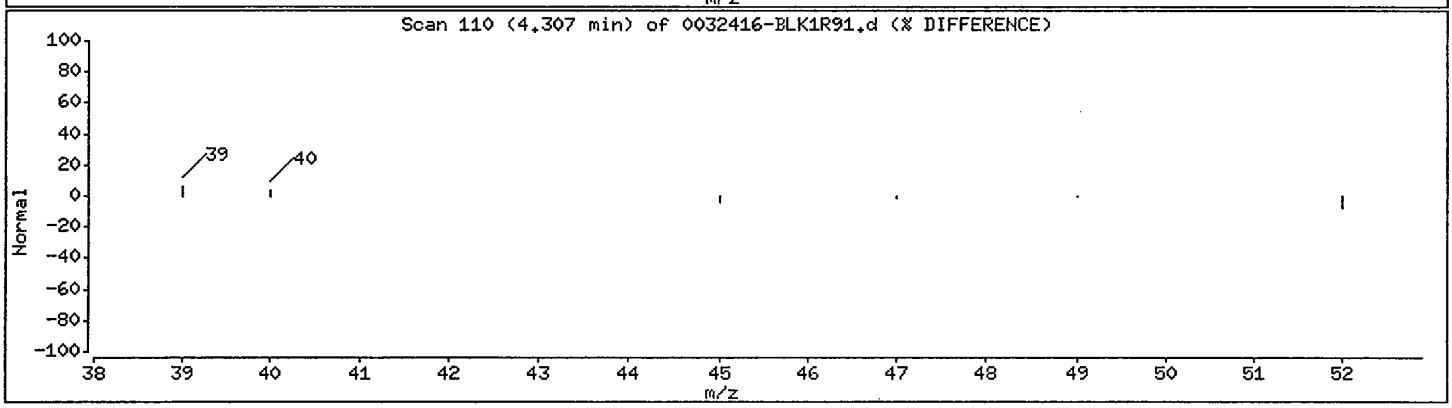
19 Chloromethane

Concentration: 1.78056 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d

Date : 24-MAR-2010 12:51

Client ID: VBLKHV

Instrument: 5975hpms91.i

Sample Info: 0032416-BLK1:JAO

Purge Volume: 5.0

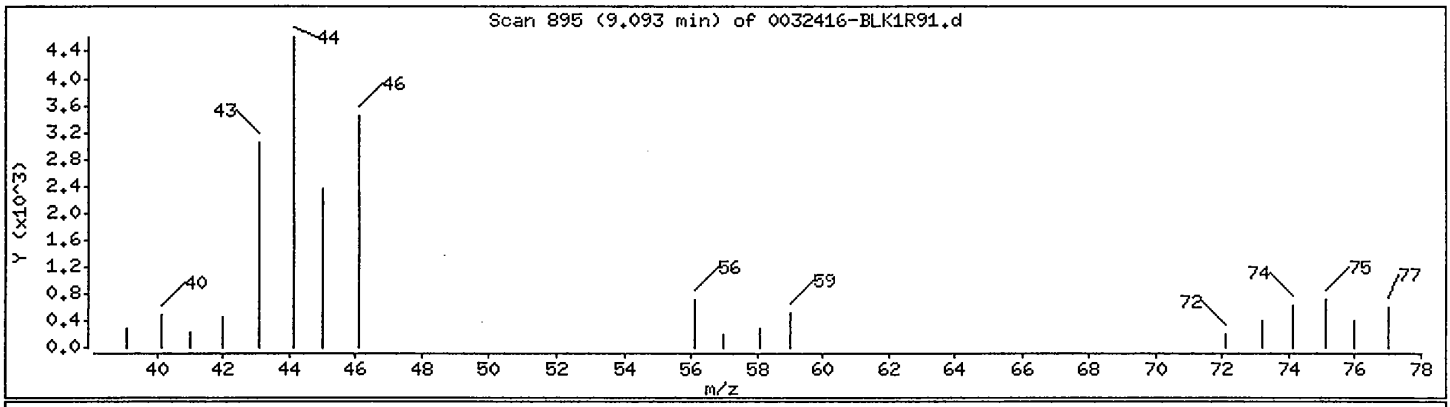
Operator: JAO

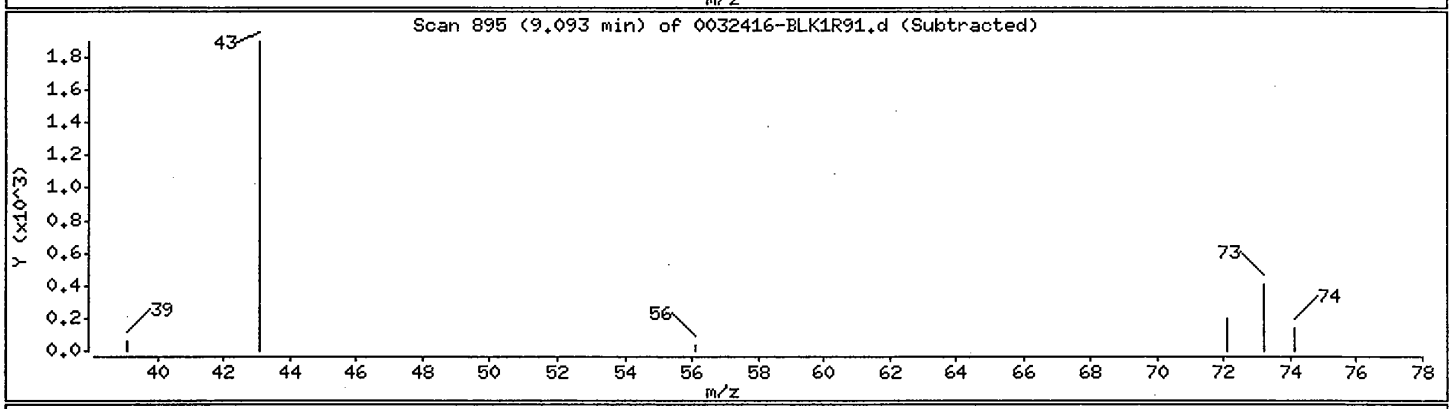
Column phase: SPB-624

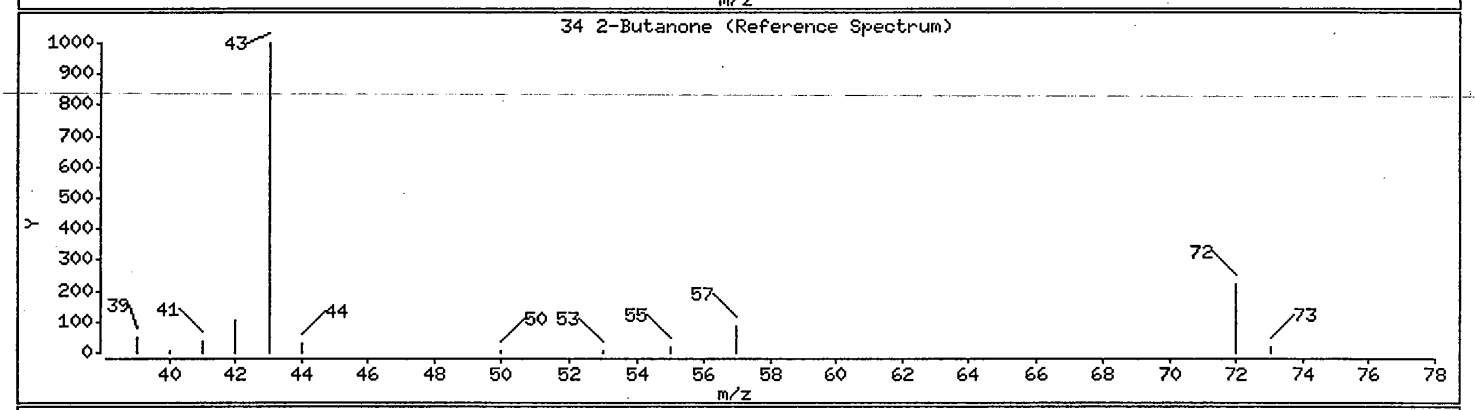
Column diameter: 0.32

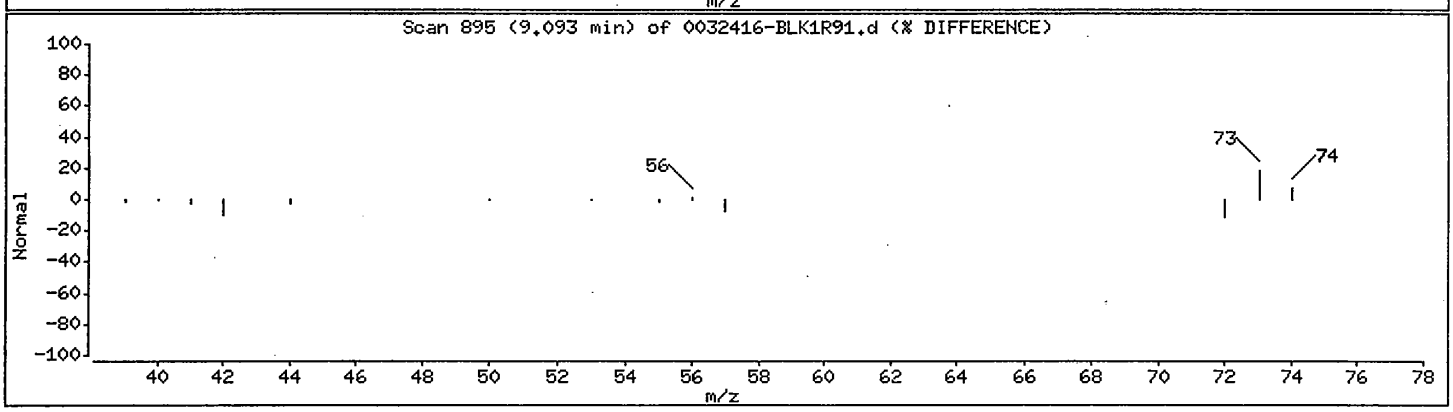
34 2-Butanone

Concentration: 4.24983 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/0032416-BLK1R91.d
Lab Smp Id: 0032416-BLK1 Client Smp ID: VBLKHV
Inj Date : 24-MAR-2010 12:51
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 0032416-BLK1:JAO
Misc Info : VBLKHV
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 25 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLKXP

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-08

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0891.d

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLKXP

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1003175 Mod. Ref No.: SDG No.: 1003175

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1003175-08

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1003175-0891.d

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/24/2010

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

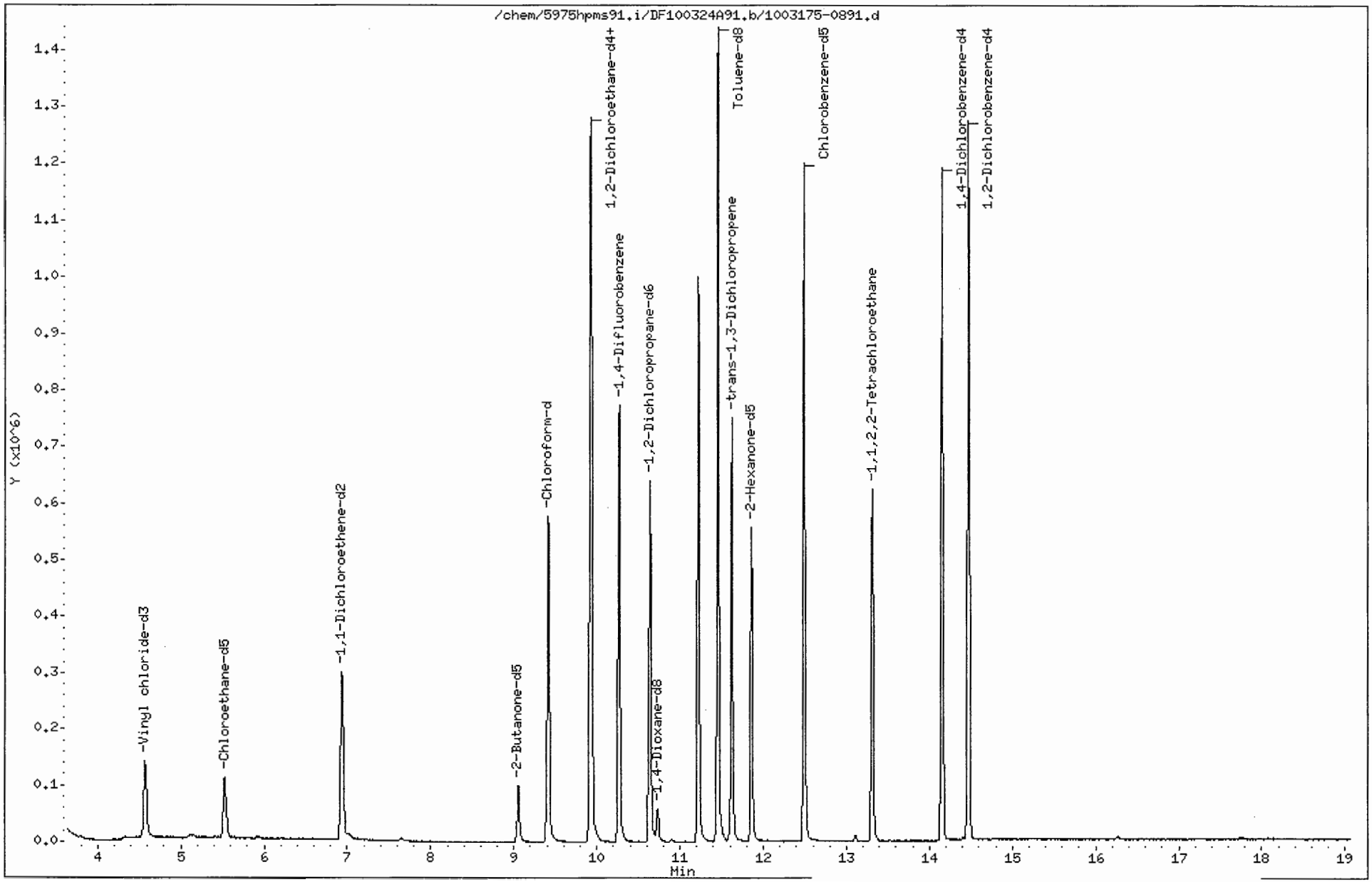
CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d
Date : 24-MAR-2010 21:45
Client ID: VHBLKXP
Sample Info: 1003175-08;JA0
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JA0
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d
Lab Smp Id: 1003175-08 Client Smp ID: VHBLKXP
Inj Date : 24-MAR-2010 21:45
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-08:JAO
Misc Info : VHBLKXZ
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 24 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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 1,4-Difluorobenzene	114	10.270	10.264	(1.000)	491709	250.000	
* 2 Chlorobenzene-d5	117	12.495	12.489	(1.000)	562430	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.153	14.147	(1.000)	278339	250.000	
$ 4 Vinyl chloride-d3	65	4.569	4.570	(0.445)	199072	271.869	54.3737
$ 5 Chloroethane-d5	69	5.527	5.527	(0.538)	144646	284.371	56.8742
$ 6 1,1-Dichloroethene-d2	63	6.935	6.935	(0.675)	275794	220.787	44.1573
$ 7 2-Butanone-d5	46	9.050	9.050	(0.881)	111868	353.949	70.7897
$ 8 Chloroform-d	84	9.416	9.410	(0.917)	468285	253.904	50.7808
$ 9 1,2-Dichloroethane-d4	65	9.916	9.916	(0.966)	325095	265.628	53.1256
$ 10 Benzene-d6	84	9.928	9.928	(0.795)	810158	236.634	47.3269
$ 11 1,2-Dichloropropane-d6	67	10.635	10.635	(0.851)	225004	237.298	47.4597
$ 12 Toluene-d8	98	11.452	11.452	(0.917)	815786	232.913	46.5826
$ 13 trans-1,3-Dichloropropene-d4	79	11.617	11.617	(0.930)	345238	218.449	43.6899
$ 14 2-Hexanone-d5	63	11.855	11.849	(0.949)	139104	423.022	84.6044
$ 15 1,4-Dioxane-d8	96	10.733	10.727	(1.045)	31792	3559.75	711.949

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d
Report Date: 25-Mar-2010 19:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 16	1,1,2,2-Tetrachloroethane-d2	84	13.312	13.312	(1.065)	277714	223.342	44.6684
$ 17	1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.022)	311698	252.238	50.4475
18	Dichlorodifluoromethane	85	Compound Not Detected.					
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	7.008	7.008	(0.682)	3669	21.1590	4.23179(a)
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Methylene chloride	84	Compound Not Detected.					
30	trans-1,2-Dichloroethene	96	Compound Not Detected.					
31	Methyl tert-butyl ether	73	Compound Not Detected.					
32	1,1-Dichloroethane	63	Compound Not Detected.					
33	cis-1,2-Dichloroethene	96	Compound Not Detected.					
34	2-Butanone	43	Compound Not Detected.					
35	Bromochloromethane	128	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	1,4-Dioxane	88	Compound Not Detected.					
43	Trichloroethene	95	Compound Not Detected.					
44	Methylcyclohexane	83	Compound Not Detected.					
45	1,2-Dichloropropane	63	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	cis-1,3-Dichloropropene	75	Compound Not Detected.					
48	4-Methyl-2-pentanone	43	Compound Not Detected.					
49	Toluene	91	Compound Not Detected.					
50	trans-1,3-Dichloropropene	75	Compound Not Detected.					
51	1,1,2-Trichloroethane	97	Compound Not Detected.					
52	Tetrachloroethene	164	Compound Not Detected.					
53	2-Hexanone	43	Compound Not Detected.					
54	Dibromochloromethane	129	Compound Not Detected.					
55	1,2-Dibromoethane	107	Compound Not Detected.					
56	Chlorobenzene	112	Compound Not Detected.					
57	Ethylbenzene	91	Compound Not Detected.					
58	m,p-Xylene	106	Compound Not Detected.					
59	o-Xylene	106	Compound Not Detected.					
60	Styrene	104	Compound Not Detected.					
61	Bromoform	173	Compound Not Detected.					
62	Isopropylbenzene	105	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d
Report Date: 25-Mar-2010 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d

Date : 24-MAR-2010 21:45

Client ID: VHBLKXP

Instrument: 5975hpms91.i

Sample Info: 1003175-08:JAO

Purge Volume: 5.0

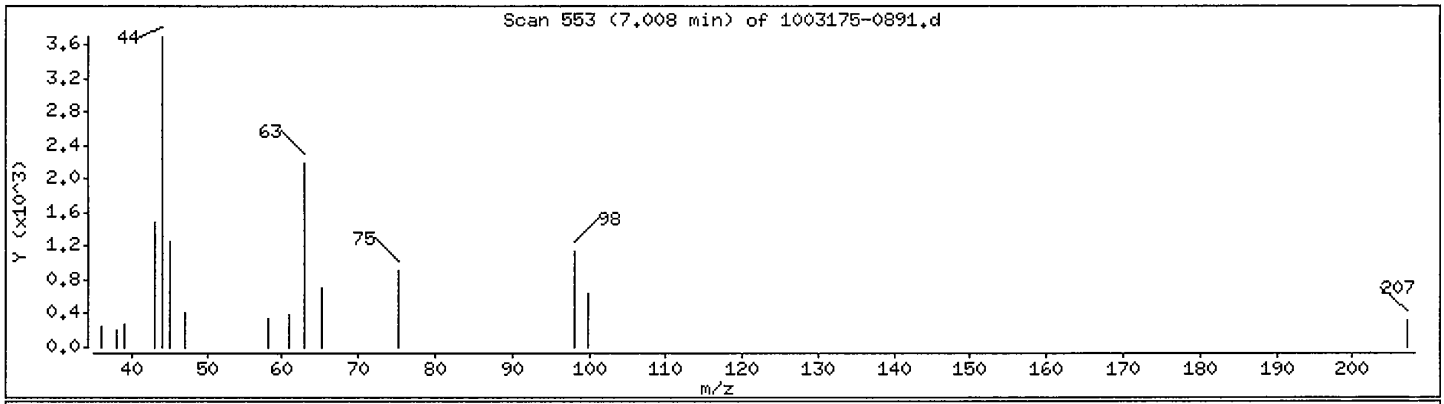
Operator: JAO

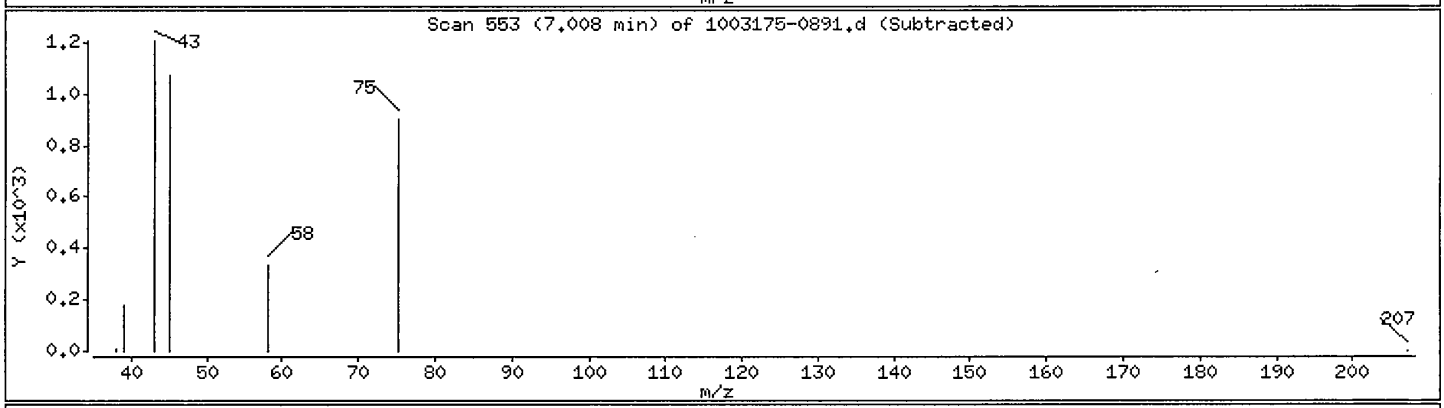
Column phase: SPB-624

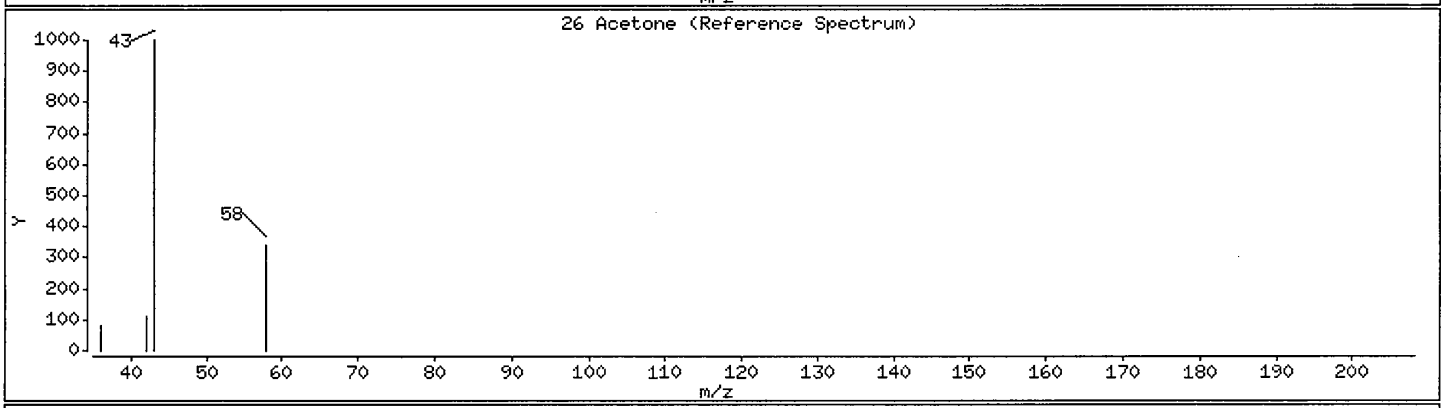
Column diameter: 0.32

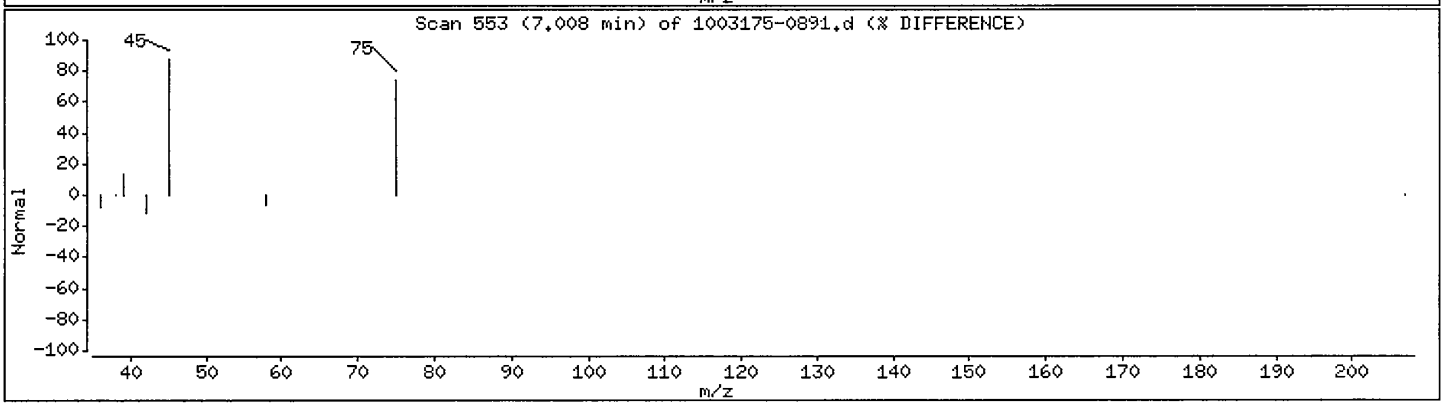
26 Acetone

Concentration: 4.23179 ug/L









Data File: /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d
Report Date: 25-Mar-2010 19:58

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF100324A91.b/1003175-0891.d
Lab Smp Id: 1003175-08 Client Smp ID: VHBLKXP
Inj Date : 24-MAR-2010 21:45
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1003175-08:JAO
Misc Info : VHBLKXZ
Comment :
Method : /chem/5975hpms91.i/DF100324A91.b/SOM01.2_WATERv2.m
Meth Date : 25-Mar-2010 19:37 walker Quant Type: ISTD
Cal Date : 06-MAR-2010 00:07 Cal File: 0C05012-CAL591.d
Als bottle: 24 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

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

5. Trace SIM Data (Optional)

a. Form I VOA-SIM

b. Form II VOA-SIM1, VOA-SIM2

c. Form IV VOA-SIM

d. Form V VOA

e. Form VI VOA-SIM

f. Form VII VOA-SIM

g. Form VIII VOA-SIM

h. Raw Data